# OFFICIAL GAZETTE

# UNITED STATES PATENT OFFICE

NOV. THRU DEC.

VOL 376 - 377

1928

# OFFICIAL GAZETTE

OF THE

# UNITED STATES PATENT OFFICE

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NOVEMBER

1928

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (c), and of the United States Circuit Court of Appeals by the letter (a).]

Patents Nos. 1,690,093 to 1,691,027.

# THE OFFICIAL GAZETTE

OF THE

# United States Patent Office.

Vol. 376—No. 1. TUESDAY, NOVEMBER 6, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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| T. M. Renewals | 33 | | | |
| Labels | 23—No. | 34,898 to No. | 34,920, | inclusive. |
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| Reissues | 6—No. | 17,123 to No. | 17,128, | inclusive. |
| Designs | 78—No. | 76,768 to No. | 76,845, | inclusive. |
| Patents | 935—No. | 1,690,093 to No. | 1,691,027, | inclusive. |
| Total | 1,422 | | | |

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,545,204, W. P. Schirmer, Rotary pump, decided September 27, 1928, claims 10 and 11.

Pat. 1,642,032, H. L. Keith, Control system, decided September 26, 1928, claims 4 and 5.

---

Final decisions in interference have been rendered against the following trade-marks:

T. M. 178,525, Jelly soap, A. R. Holder, Abilene, Tex. Registered January 15, 1924. Decided September 17, 1928.

T. M. 222,061, Chemical compound for cleaning upholstery and carpets, W. K. Lepper, Gloversville, N. Y. Registered December 21, 1926. Decided September 17, 1928.

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## Access to Pending Applications.

No person except the applicant, the assignee whose assignment is of record, or the attorney of record will be permitted to have access to the file of any application, except as provided for under the interference rules, unless written authority from the applicant, assignee, or attorney, identifying the application to be inspected, is filed in the case to become a part of the record thereof, or upon the written order of the Commissioner, which will also become a part of the record of the case.

# NOTICE.

## WITHDRAWING CASES FROM ISSUE.

## RECORDING ASSIGNMENTS.

**The job of printing the Official Gazette with approximately 1,200 original cuts each week and of issuing over 1,200 patents, designs, and trade-marks each Tuesday, is so stupendous that it has been necessary for the Patent Office to rigidly enforce Rules 165 and 188 in order to make certain that the Gazette and patents will be issued on the day they are dated. The first of these rules is against withdrawing a case from issue after the final fee has been paid and the other makes it necessary for an assignment to "be recorded in the Patent Office at a date not later than the day on which the final fee is paid." Every now and then a request is made for the Office to make exceptions to one or the other of these rules. Therefore this notice is published so that those doing business with this Office may know that these rules are of necessity being rigidly enforced and that no exceptions can be made to them.**

**Oct. 18, 1928.**

**THOMAS E. ROBERTSON,**
**Commissioner.**

## Condition of Applications Under Examination at Close of Business October 26, 1928.

| Room No. | (Total number of applications awaiting action, excluding Trade-Mark Division, 111,427; Trade-Mark Division, 1,870. Oldest new case, Dec. 29, 1927; oldest amended, Jan. 6, 1928. The dates given are 1928 except where † indicates 1927.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Feb. 15 | Mar. 1 | 1,555 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 3 | Mar. 5 | 1,659 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Feb. 17 | Feb. 21 | 1,415 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Jan. 11 | Jan. 21 | 1,540 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Jan. 26 | Jan. 26 | 1,546 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Jan. 25 | Feb. 2 | 2,543 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Jan. 17 | Jan. 16 | 1,943 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Feb. 27 | Apr. 3 | 1,656 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Mar. 21 | Mar. 22 | 1,791 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Feb. 26 | Mar. 7 | 1,758 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | Apr. 17 | Apr. 21 | 906 |
| 380 | 12. PIERCE, P. P., Machine Elements | Feb. 13 | Feb. 15 | 1,974 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling, Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Feb. 17 | Feb. 3 | 1,506 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Jan. 28 | Jan. 28 | 1,176 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Jan. 13 | Jan. 18 | 2,651 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Feb. 27 | Mar. 1 | 1,217 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Jan. 19 | Feb. 10 | 1,474 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Jan. 10 | Jan. 21 | 1,679 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Feb. 23 | Feb. 21 | 1,917 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking | Apr. 19 | Apr. 23 | 1,402 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Jan. 26 | Feb. 23 | 1,057 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Jan. 17 | Jan. 21 | 1,629 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Jan. 4 | Jan. 12 | 1,128 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Jan. 19 | Feb. 1 | 1,559 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | Apr. 12 | 1,667 |
| 228* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Feb. 15 | Feb. 16 | 1,207 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Mar. 30 | Mar. 30 | 1,495 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 1 | Mar. 1 | 1,862 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Feb. 25 | Feb. 24 | 1,096 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Jan. 26 | June 2 | 1,460 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Feb. 10 | Feb. 23 | 2,062 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Jan. 19 | Jan. 16 | 2,141 |
| 152 | 33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | May 11 | May 12 | 2,025 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Jan. 6 | Jan. 31 | 1,394 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 4 | May 1 | 1,630 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring | Mar. 9 | Mar. 10 | 2,087 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 5 | Feb. 4 | 2,326 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Mar. 19 | Mar. 28 | 1,901 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Jan. 13 | Jan. 17 | 1,919 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Jan. 26 | Mar. 13 | 2,747 |
| 125 | 41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Feb. 27 | Feb. 29 | 1,444 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Jan. 21 | Feb. 25 | 1,568 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 9 | Mar. 19 | 2,171 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Feb. 6 | Feb. 10 | 2,031 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Jan. 10 | Feb. 10 | 2,464 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 1 | Feb. 2 | 1,844 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Feb. 16 | Mar. 5 | 2,000 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Feb. 16 | Feb. 9 | 1,592 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Feb. 17 | Feb. 25 | 1,521 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Feb. 18 | Feb. 18 | 2,595 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 2 | Feb. 2 | 2,290 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Mar. 2 | Mar. 2 | 2,186 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | Mar. 27 | Apr. 4 | 1,807 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Feb. 9 | Feb. 10 | 2,377 |
| 102 | 55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery | Feb. 6 | Feb. 7 | 819 |
| | {Designs | Sept. 26 | Oct. 11 | 572 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | †Dec. 29 | Jan. 7 | 2,490 |
| 257* | 57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Feb. 15 | Feb. 9 | 1,171 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Jan. 9 | Jan. 9 | 1,416 |
| 315 | 59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 6 | Jan. 6 | 2,625 |
| 213* | 60. GLASS, R. L., Electricity; Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Jan. 23 | Jan. 23 | 1,710 |
| 269 | 61. PARKS, C. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Jan. 19 | Jan. 24 | 2,285 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Jan. 28 | Feb. 10 | 2,782 |
| 163 | TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks | Sept. 29 | Oct. 16 | 1,717 |
| | {Labels and Prints | Sept. 29 | Oct. 20 | 158 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decision.

EX PARTE PETERSON.

*Decided October 15, 1928.*

1. APPLICATION—ABANDONMENT—NONRESPONSIVE AMENDMENT.

Where, following an Office action in which some claims were rejected and others allowed, an amendment was filed canceling some of the rejected claims, amending others, and adding two new claims, with only a statement that the amendment responds to the Office action, that one of the new claims virtually replaces a claim and involves a specific result of an element and the other claim pertains to the general structure and is believed to be a good claim, *Held* that this amendment is not responsive, and when the Examiner reached the case for action after the year he properly held the application abandoned.

2. SAME—SAME—SAME—PURPOSE OF ORDER 2801.

Order 2801 was intended merely to emphasize the necessity of the enforcement of rule 68 as to the presentation of proper arguments, reasons, or showing of patentability.

3. SAME—SAME—DUTY OF THE EXAMINER.

"If the examiner had noticed when the amendment was filed that it did not completely conform to the rule and the order, he should have called the attorney's attention to that fact; but in view of the vast amount of work before this Office, it is not deemed practical or expedient to burden the Examiner with a positive requirement that he make such preliminary examinations of amendments when they are first received as to enable him to always send such warning notice, nor can his failure so to act be held to excuse the attorney's neglect."

PETITION to revive.

CHAIR AND STEPLADDER COMBINATIONS.

*Mr. Louis M. Schmidt* for Peterson.

KINNAN, *First Assistant Commissioner:*

The applicant petitions that this case, held by the Examiner to be abandoned by reason of failure to make a complete response within the period required by law, be revived.

The record shows that on September 24, 1926, certain claims in this case were rejected and others were held allowable. On September 6, 1927, an amendment was filed canceling three of the rejected claims, making a slight amendment in one of the others, and adding two new claims, numbered 10 and 11. This amendment was accompanied only by a statement that—

The above responds to Office letter of September. 24. 1926. Claim 11 virtually replaces claim 3 and involves a specific result for the catch devices,

and that—

Claim 10 pertains to the general structure and is believed to be a good claim.

On December 21, 1927, the Examiner held the application abandoned for lack of sufficient prosecution, which holding was repeated on May 15, 1928, in response to an argument filed February 10, 1928, and this petition was filed May 28th. The fact should be noted the applicant delayed until nearly the expiration of the year before filing the amendment of September 6, 1927, so there was not much time within which to notify him of the incomplete nature of his amendment.

The petition is not accompanied by any further explanation of why the new claims are supposed to be patentable or how they avoid the reference, but after arguing that the amendment was sufficient includes the statement—

If more were needed for any reason whatsoever, more would willingly be supplied upon proper advice.

It is obviously the duty of an applicant to present to the Examiner, while the application is pending before the latter, any and all reasons the applicant desires to have considered as to why the claims should be allowed over the art of record to the end that a just decision may be reached and unnecessary appeals be avoided. It is also important the entire history of the prosecution of an application, including all arguments and reasons advanced for the allowance of the claims of the patent, be of record in order that subsequently, when necessary, the true scope of the protection granted may be properly determined.

The requirement of rule 68 that, in amending, an applicant must clearly point out the patentable novelty which he thinks the case presents and must show how his amendment avoids the references or reasons presented by the Examiner has been in force for about half a century. Order 2801 was intended merely to emphasize the necessity of its enforcement as to the presentation of proper arguments, reasons, or showing as to patentability. It must be presumed registered attorneys are familiar with the proper practice in connection with the presentation of amendments to claims and in offering of new claims.

It is the plain duty of Examiners to cooperate with attorneys and inventors, so far as is reasonably possible, in all proper efforts to bring about the prompt issue of valid patents and to avoid accidental or unintentional lapses of rights by abandonment. If the Examiner had noticed when the amendment was filed that it did not completely conform to the rule and the order, he should have called the attorney's attention to that fact; but, in view of the vast amount of work before this Office, it is not deemed practical or expedient to burden the Examiner with a positive requirement that he make such preliminary examinations of amendments when they are first received as to enable him to always send such warning notice, nor can his failure so to act be held to excuse the attorney's neglect. This view seems justified and particularly so where, as above noted, the applicant delayed making any response at all until the statutory period had nearly expired.

The meager statement made by the attorney obviously complied neither with the rule nor the order and, as noted above, no sufficient response has as yet been filed.

The petition is therefore denied but without prejudice to its prompt renewal accompanied by a proper statement.

## U. S. Circuit Court of Appeals—Third Circuit.

RICHES, PIVER & CO. *v.* NITRATE AGENCIES CO.

*Decided March 23, 1928; rehearing denied May 25, 1928.*

[25 Fed. Rep. (2d) 860.]

PATENTABILITY—PROCESS OF MANUFACTURING CALCIUM ARSENATE AS AN INSECTICIDE—CLAIMS BROADER THAN INVENTION.

Where the disclosure of the patent is that the addition of electrolytes of sodium hydroxide and calcium nitrate to solutions at the time of reaction prevents the occlusion of soluble compounds of calcium and arsenic and the claims are not only for these electrolytes but for all hydroxide electrolytes, *Held* that the claims are invalid as being broader than the invention, since "whatever the invention of the patent may be, it is certain that not all electrolytes or compounds added in accordance with the teaching of the patent prevent occlusion of undesirable water solubles."

APPEAL from the District Court of the United States for the District of New Jersey; William Clark, Judge.

Patent infringement suit by Riches, Piver & Co. against the Nitrate Agencies Company. Decree for defendant, and plaintiff appeals. Affirmed.

*Mr. George H. Mitchell* and *Mr. Lewis J. Doolittle* for the appellee.

*Mr. Stephen H. Philbin* and *Messrs. Fish, Richardson & Neave* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

DAVIS, *Cir. J.*:

This is an appeal from a decree of the district court holding invalid United States Letters Patent No. 1,237,815, issued to George R. Riches and William C. Piver, on August 21, 1917. The patent relates to a process for the manufacture of calcium arsenate, a widely used insecticide, free from "soluble arsenic" or "acid salt." The defenses were invalidity and noninfringement. The district judge found the patent invalid, but did not pass upon the question of infringement.

The problem in its manufacture is, in the first place, to produce a substance which will kill insects without damaging plants and plant life on which it is used, and, in the second place, to produce it economically and in such condition that it will adhere to plants on which it is used. It is made by causing lime and arsenic acid to react, so as to form a salt, or calcium arsenate, but in order to be sure of obtaining it an excess of lime is employed in the defendant's process. In manufacture there are formed four calcium arsenates—mono-calcium arsenate, di-calcium arsenate, tri-calcium arsenate, and the basic arsenate. The third salt, tri-calcium arsenate, but usually called calcium arsenate, is the salt of the patent. The first and second salts are soluble in water and readily decompose, forming arsenic acid, which injures plants and foliage.

The patent deals with the problem of avoiding the formation of these undesirable and injurious arsenic salts or water solubles by the use of electrolytes added to the solution at the time of reaction, which, the patentee says, will prevent the occlusion of these soluble arsenic compounds. The defendant, on the other hand, does not control or prevent these water solubles by the addition of electrolytes, as the patent teaches, but prevents them by means of temperature and agitation, which plaintiff recognizes, but says are unimportant and make slight difference. In this respect, the defendant's practices differ from the teaching of the patent.

Again, the plaintiff, not only did not teach the necessity of the use of excess lime in the manufacture of calcium arsenate, but actually taught the contrary. The disclosure of the patent is that the addition of electrolytes of sodium hydroxide and calcium nitrate to solutions at the time of reaction prevents the occlusion of soluble compounds of calcium and arsenic. The claim is not only for the electrolytes of sodium and calcium nitrate, but for all hydroxide electrolytes. Whatever the invention of the patent may be, it is certain that not all electrolytes or compounds added in accordance with the teaching of the patent prevent occlusion of undesirable water solubles. Claims 1 and 2 are, therefore, broader than the patent.

Many catalytic agents had been used in the prior art in the manufacture of lead arsenate and calcium arsenate, before the disclosures of the patent in question. Nitric acid and acetic acid had been used. Lead arsenate and calcium arsenate were manufactured by both the plaintiff and defendant. The Patent No. 892,603, to Luther and Volck, relates to the manufacture of arsenate of lead, a similar insecticide, by the use of an electrolyte. This is made by the reaction of arsenic acid and calcium oxide. "The reaction is effected after a catalyzing agent has been added."

It was old in the insecticide art, prior to Riches and Piver, to employ an independent electrolyte for the purpose of bringing about a complete combination between arsenic acid and a basic oxide. The record shows that the manufacture of calcium arsenate by the reaction of lime and arsenic acid in the presence of sodium hydroxide was well known, and so the patent discloses an expedient well known in the art.

In claim 1, a compound is used to prevent occlusion; in claim 2, an independent electrolyte is used; and in claim 3 sodium hydroxide is used. The defendant did not use any of these to prevent occlusion. The defendant used soda ash to control the density or bulkiness of the finished product, and it had no other function. On the other hand, plaintiff never used soda ash in its commercial process. It does not reduce water solubles, but tends to increase them.

We are of opinion that defendant did not infringe, and that plaintiff's patent is invalid. Therefore the decree is affirmed.

---

## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

508,462, W. A. Baglin, Machine for uniting nap bats to hat bodies, filed Apr. 18, 1910, D. C. Mass., Doc. E 166 (E708 Circuit Crt.), *Matteawan Mfg. Co.* v. *Merrimac Hat Co.* Dismissed without prejudice Mar. 16, 1915.

819,652, W. E. Hassam, Pavement and process of laying same; 861,650, 861,651, W. E. Hassam, Artificial structure and process of making same, filed Aug. 7, 1911, D. C. Mass., Doc. E 276 (E882 Circuit Crt.), *Hassam Paving Co.* v. *City of Lowell, Mass.* Dismissed without prejudice Mar. 16, 1915.

861,650. (See 819,652.)

861,651. (See 819,652.)

873,731, J. H. Cunningham, Boots and shoes, filed May 15, 1911, D. C. Mass., Doc. E 256 (E855 Circuit Crt.), *J. H. Cunningham* v. *Nesmith Shoe Co.* Dismissed without prejudice Jan. 2, 1925.

1,018,502, Just & Hanaman, Incandescent body for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C., S. D. N. Y., Doc. E 39/399, *General Electric Co.* v. *S. Jones et al.* Patents held valid and infringed Sept. 13, 1928. Same, Doc. E 40/152, *General Electric Co.* v. *F. & S. Gas & Electric Supply Co., Inc., et al.* Decree as above Sept. 18, 1928.

1,052,166, 1,052,167, C. Nessler, Apparatus for waving hair, D. C., N. D. Ohio, E. Div., Doc. 2434, *Nestle Patent Holding Co. et al.* v. *The S. Le Mur Co.* Dismissed without prejudice Aug. 22, 1928.

1,052,167. (See 1,052,166.)

1,068,429, A. Helmlich, One-piece brassière and princesa slip, D. C., S. D. N. Y., Doc. E 37/55, *A. Helmlich* v. *Model Brassiere Co.* Dismissed upon merits Sept. 19, 1928.

1,082,331. (See 1,082,463.)

1,082,463, Hopkins & Fellows, Wrapping machine; 1,082,331, same, Automatic feeding and cutting mechanism for plastic material, appeal filed Sept. 12, 1928, C. C. A., 1st Cir., Doc. 2280, *The George Close Co.* v. *Ideal Wrapping Machine Co. et al.*

1,109,950, A. Andrew, Signaling apparatus; 1,160,315, E. R. Newell, Elevator signaling apparatus; 1,322,895, R. H. Gaylord, Elevator signal system, filed Sept. 13, 1928, D. C., S. D. N. Y., Doc. E 46/317, *Elevator Supplies Co., Inc.*, v. *Norton-Blair-Douglass, Inc.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Sept. 6, 1928, D. C., S. D. N. Y., Doc. E 46/301, *Claude Neon Lights, Inc.*, v. *American Neon Light Corp.* Same, filed Sept. 11, 1928, D. C., W. D. Wash., S. Div., Doc. E 364, *Claude Neon Electrical Products, Inc.*, v. *C. Eckstein (Eckstein & Sharpe Co.).* Same, D. C., N. D. Calif. (San Francisco), Doc. 2192–L, *Claude Neon Electrical Products, Inc.*, v. *J. Laib, jr.* Decree for plaintiff, patent held void Sept. 19, 1928. Same, D. C., S. D. Calif. (Los Angeles), Doc. E M–5–M, *Electrical Products Corp.* v. *Recreations & Amusements, Inc.* Dismissed July 17, 1928.

1,129,942, H. D. Arnold, Gaseous repeater in circuits of low impedance; 1,329,283, same, Thermionic amplifier; 1,173,079, E. F. Alexanderson, Selective tuning system; 1,183,875, R. V. Hartley, Electrical circuit; 1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,231,764, F. Lowenstein, Telephone relay; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials; 1,273,627, I. Langmuir, Method of and means for controlling electric currents or potentials; 1,282,439, 1,313,094, same, System for amplifying variable currents; 1,334,118, C. W. Rice, System for amplification of small currents, appeal filed Sept. 17, 1928, C. C. A., 2d Cir., *Radio Corp. of America et al.* v. *Lehr Auto Supply Co., Inc.*

1,160,315. (See 1,109,950.)

1,162,479 (*a*), A. H. Harris, Method of manufacturing tires; 1,374,505, E. Hopkinson, Method of making motor-vehicle tires; 1,480,719, J. R. Gammeter, Method and apparatus for making or manipulating tires; 1,507,563, A. O. Abbott, jr., Method and apparatus for manufacturing tire casings; 1,607,266, H. V. Lough, Rubberized fabric and its method of manufacture, filed Sept. 11, 1928, D. C., N. D. Ohio, E. Div., Doc. 2669, *United States Rubber Co.* v. *The Firestone Tire & Rubber Co.*

1,162,479 (*b*), A. H. Harris, Method of manufacturing tires; 1,374,505, E. Hopkinson, Method of making motor-vehicle tires; 1,480,719, J. R. Gammeter, Method and apparatus for making or manipulating tires; 1,507,563, A. O. Abbott, jr., Method and apparatus for manufacturing tire casings, D. C., N. D. Ohio, 7. Div., Doc. 2607, *U. S. Rubber Co. et al.* v. *The Firestone Tire & Rubber Co.* Dismissed without prejudice Sept. 13, 1928.

1,173,079. (See 1,129,942.)

1,177,774, F. H. Houghland, Folding box, filed Sept. 10, 1928, D. C., S. D. N. Y., Doc. E 46/310, *C. A. Fox Box Co., Inc.*, v. *Quick Service Box Co., Inc.*

1,180,159. (See 1,018,502.)

1,183,875. (See 1,129,942.)

1,195,632. (See 1,129,942.)

1,231,764. (See 1,129,942.)

1,251,377. (See 1,129,942.)

1,273,627. (See 1,129,942.)

1,282,439. (See 1,129,942.)

1,307,733 (*a*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C. Del. (Wilmington), Doc. E 661, *The Bassick Mfg. Co.* v. *The Morgan Mfg. Co., Inc.* Patents held valid and infringed Sept. 5, 1928.

1,307,733 (*b*), A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, D. C., S. D. N. Y., Doc. E 39/161, *The Bassick Mfg. Co.* v. *L. L. Minthorn.* Patents held valid and infringed (notice dated Sept. 12, 1928).

1,307,734. (See 1,307,733 (*a*) and (*b*).)

1,313,094. (See 1,129,942.)

1,322,895. (See 1,109,950.)

1,329,283. (See 1,129,942.)

1,334,118. (See 1,129,942.)

1,374,505. (See 1,162,479 (*a*) and (*b*).)

1,404,369, F. C. Chapman, Dehydrator, filed Sept. 12, 1928, D. C., N. D. Calif. (Sacramento), Doc. E 283, *Chapman Dehydrator Co.* v. *Capay Irrigated Orchards Co. et al.*

1,413,656, G. H. Dunn, Dispenser for paper towels, filed Sept. 17, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2382, *American Can Co.* v. *Griffith-Hope Co.*

1,447,090, J. E. Langsdorf, Necktie, filed Sept. 12, 1928, D. C., S. D. N. Y., Doc. E 46/314, *Franc-Strohmenger & Cowan, Inc.*, v. *A. Vorsimer et al.* Doc. E 46/315, *Franc-Strohmenger & Cowan, Inc.*, v. *Smith Bros. Importers, Inc.* Doc. E 46/316, *Franc-Strohmenger & Cowan, Inc., V. Vorsimer, Suskind Co., Inc.*

1,466,098, E. C. Myers, Harvester, filed Sept. 6, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2377, *A. Ronning et al.* v. *E. C. Myers.*

1,472,828, F. A. Eustis, Apparatus for making hydrosulphites, filed Sept. 10, 1928, D. C. Mass., Doc. E 3023, *F. A. Eustis* v. *Otis Co.*

1,475,980. (See 1,307,733 (*b*).)

1,480,719. (See 1,162,479 (*a*) and (*b*).)

1,507,563. (See 1,162,479 (*a*) and (*b*).)

1,518,067, W. W. Hicks, Electric heater, filed Sept. 8, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2186–K, *W. W. Hicks* v. *Sandoval Sales Co.*

1,523,079, E. H. Peabody, Coupling, appeal filed Sept. 6, 1928, C. C. A., 2d Cir., *Peabody Engineering Corp.* v. *Todd Dry Dock Engineering & Repair Corp.*

1,561,836, N. Q. Donnelly, Apron, filed Sept. 10, 1928, D. C., W. D. N. Y., Doc. 1392–H, *Donnelly Garment Co.* v. *Barmon Bros. Co., Inc., et al.*

1,563,769, W. L. Marden, Register for liquid-dispensing apparatus; 1,617,408, W. L. Marden, Alarm register for meters, filed Sept. 17, 1928, D. C., S. D. N. Y., Doc. E 46/323, *Neptune Meter Co.* v. *Pittsburgh Equitable Meter Co.*

1,585,233, J. W. Coast, jr., Continuously distilling and cracking hydrocarbon oils, filed Sept. 11, 1928, D. C. Kans., 2d Div., Doc. E 322, *Empire Refineries, Inc.*, v. *Vickers Petroleum Co.*

1,592,150, C. G. Nessler, Hair waving, D. C., N. D. Ohio, E. Div., Doc. 2055, *Nestle Lanoll Co., Inc., et al.* v. *The S. Le Mur Co.* Discontinued without prejudice Aug. 22, 1928.

1,607,266, H. V. Lough, Rubberized fabric and its method of manufacture, D. C., N. D. Ohio, E. Div., Doc. 2613, *U. S. Rubber Co. et al.* v. *The Firestone Tire & Rubber Co.* Dismissed without prejudice Sept. 13, 1928.

1,607,266. (See 1,162,479 (a).)

1,609,428, H. Ringel, Clothing receptacle, filed Sept. 7, 1928, D. C., S. D. N. Y., Doc. E 46/305, *Converters Paper Co.* v. *J. Goldman et al.*

1,617,408. (See 1,563,769.)

1,682,474, A. Bergman, Decorative embroidery, filed Sept. 19, 1928, D. C., S. D. N. Y., Doc. E 46/326, *Trusogram Corp.* v. *Venetian Monogram Corp. et al.*

Re. 15,278, I. Langmuir, Electron-discharge apparatus, filed Sept. 7, 1928, D. C., S. D. N. Y., Doc. E 46/307, *Radio Corp. of America et al.* v. *Gold Seal Electric Co., Inc.*

Re. 15,895, Lindsay & Hemphill, Air-agitating tube for refrigerating systems, D. C., W. D. S. C. (Greenville), Doc. E 133, *Frick Co.* v. *R. F. Lindsay et al.* Decree for plaintiff Sept. 6, 1928.

Re. 16,356, G. W. Otterson, Self-loading vehicle, filed Sept. 19, 1928, D. C., S. D. N. Y., Doc. E 46/325, *Atla Sales Corp.* v. *W. S. Howard et al.*

Des. 43,459, Kellner & Worms, Knitted necktie, D. C., S. D. N. Y., Doc. E 39/228, *Franklin Knitting Mills, Inc.*, v. *L. Fischer* (*York Men's Shop*). Doc. E 39/250, *Franklin Knitting Mills, Inc.*, v. *H. Gutterman & Sons, Inc.* Doc. E 40/22, *Franklin Knitting Mills, Inc.*, v. *Admiration Shirt Shops, Inc.* Consent order of discontinuance Sept. 6, 1928, in each of the above cases. Doc. E 39/215, *Franklin Knitting Mills, Inc.*, v. *J. Kessner et al.* (*Kessner & Rubin*). Doc. E 39/223, *Franklin Knitting Mills, Inc.*, v. *Hudson Men's Shop, Inc.* Doc. E 39/225, *Franklin Knitting Mills, Inc.*, v. *E. Green.* Doc. E 39/252, *Franklin Knitting Mills, Inc.*, v. *F. Heinrich et al.* Doc. E 39/254, *Franklin Knitting Mills, Inc.*, v. *J. J. Margolin et al.* (*Ideal Men's Shop*). Doc. E 39/291, *Franklin Knitting Mills, Inc.*, v. *Standard Neckwear Co.* Doc. E 40/6, *Franklin Knitting Mills, Inc.*, v. *I. Storper.* Doc. E 40/7, *Franklin Knitting Mills, Inc.*, v. *S. Ostrovsky et al.* (*Saul & Meyers Men's Shop*). Doc. E 40/10, *Franklin Knitting Mills, Inc.*, v. *M. Storper.* Doc. E 40/11, *Franklin Knitting Mills, Inc.*, v. *A. Menzin et al.* (*Menzin Shirt Co.*) Doc. E 40/16, *Franklin Knitting Mills, Inc.*, v. *G. Holstein, Inc.* Doc. E 40/86, *Franklin Knitting Mills, Inc.*, v. *J. G. Barbieri* (*Belmonte Shirt Shop*). Consent order of discontinuance July 21, 1928, in each of the above cases.

Des. 46,682, A. A. Kraenter, Handle for pliers, etc., filed Sept. 18, 1928, D. C., S. D. N. Y., Doc. E 46/324, *Kraenter & Co., Inc.*, v. *United Hardware & Tool Corp.*

Des. 70,242, M. Simson, Jewelry setting, D. C., S. D. N. Y., Doc. E 41/126, *Simson Bros., Inc.*, v. *Blancard & Co., Inc.* Patent held invalid Sept. 13, 1928. Doc. E 42/315, *Simson Bros., Inc.*, v. *Karlan & Bleicher, Inc.* Decree as above.

Des. 71,166, I. Weisenfreind, Beverage-set urn, D. C., S. D. N. Y., Doc. E 39/59, *I. Weisenfreind* v. *Keystone Silver, Inc.* Consent decree holding patent valid and infringed, Sept. 15, 1928.

## Trade-Marks Canceled.

85,958. Wheat flour. M. Forchheimer & Co., Mobile, Ala. Registered April 2, 1912. Canceled October 12, 1928.

135,087. Talking machines and parts thereof. Supertone Talking Machine Co., Inc., New York, N. Y. Registered September 21, 1920. Canceled October 12, 1928.

211,550. Wire rope. E. H. Edwards Company, San Francisco, Calif. Registered April 13, 1926. Canceled October 12, 1928.

230,458. Dyes. Roubaix Products Company, New York, N. Y., assignor to Roubaix Products Corporation of New York, N. Y. Registered July 26, 1927. Canceled October 12, 1928.

239,820. Cuff buttons. Art Wire and Stamping Company, Arlington, N. J. Registered March 13, 1928. Canceled October 12, 1928.

## Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, Oct. 19, 1928.*

*United States Compound Company, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of United States Compound Company, of 1436 Seneca St., Buffalo, N. Y., No. 89,162, dated November 12, 1912, and the notice of such proceeding sent by registered mail to the said United States Compound Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said United States Compound Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Washington, Oct. 19, 1928.*

*Murray Wire Co., its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Murray Wire Co., of Newark, N. J., No. 94,658, dated December 23, 1913, and the notice of such proceeding sent by registered mail to the said Murray Wire Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless the said Murray Wire Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Washington, Oct. 19, 1928.*

*The Cafico Chemical Company Inc., its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of The Cafico Chemical Company Inc., of 154 Pearl Street, Pittsburgh, Pa., No. 158,911, dated September 19, 1922, and the notice of such proceeding sent by registered mail to the said The Cafico Chemical Company Inc. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Cafico Chemical Company Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 6, 1928.

[VOL. 376. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

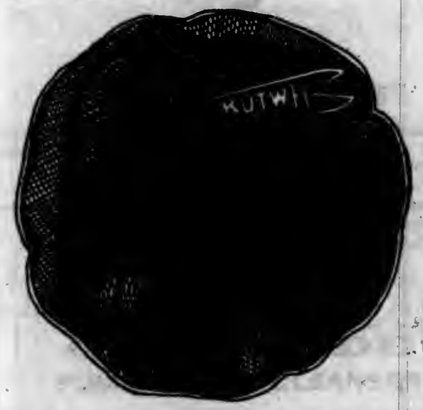
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 271,051. EDGAR S. KIEFER TANNING COMPANY, Grand Rapids, Mich. Filed Aug. 15, 1928.




No registration rights are claimed in the expression "Kutwel" except in association with the other features of the mark.

For Pigskin.

Claims use since Aug. 1, 1912.

Ser. No. 271,355. OLD BEN COAL CORPORATION, Chicago, Ill. Filed Aug. 21, 1928.

OLD BEN

PILOT COAL

The use of the word "Coal" is disclaimed.

For Coal.

Claims use since July 28, 1928.

Ser. No. 271,698. JEDDO-HIGHLAND COAL COMPANY, Jeddo, Pa. Filed Aug. 29, 1928.




No claim is made to the word "Anthracite" apart from the mark shown in the drawing. The crosshatching represents a shaded background.

For Coal.

Claims use since Aug. 8, 1928.

## CLASS 2.

### Receptacles.

Ser. No. 263,414. MOLINE PRESSED STEEL CO., East Moline, Ill. Filed Mar. 19, 1928.




The bust forming part of the trade-mark comprises a portrait of Buddy Lundahl, a living individual residing at East Moline, Ill., who consents to the use of his portrait.

For Tool Chests.

Claims use since Sept. 9, 1927.

Ser. No. 270,222. THE ADAMS BAG COMPANY, Chagrin Falls, Ohio. Filed July 27, 1928.

Lilipack

For Paper Shipping Sacks.
Claims use since Oct. 1, 1927.

## CLASS 3.

### Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 263,960. MARK CROSS COMPANY, New York, N. Y. Filed Mar. 29, 1928.

ESTABLISHED 1845 MARK CROSS FACTORIES WALSALL-WESTBURY ENGLAND

The words "Factories Walsall-Westbury England" are disclaimed apart from the mark shown.
For Suitcases, Hand Bags, Wallets, Trunks.
Claims use since Jan. 8, 1928.

Ser. No. 268,247. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio. Filed June 18, 1928.

CAMEO

Applicant is the owner of registration No. 158,751.
For Pocket Letter Cases, Cigarette Cases, Cardcases, Pass Cases, Leather Toilet Cases, Purses, Leather Key Holders, Bill Folds, and Hand Bags.
Claims use since July 1, 1922, on pocket letter cases, cigarette cases, cardcases, purses, bill folds, leather key holders, pass cases, and hand bags, and since Mar. 1, 1923, on leather toilet cases.

Ser. No. 271,169. CROUCH & FITZGERALD CORPORATION, New York, N. Y. Filed Aug. 17, 1928.

ESTABLISHED 1839 FINE LUGGAGE Crouch & Fitzgerald NEW YORK

Applicant disclaims the geographical term "New York" and the descriptive term "Fine Luggage" and "Trade-Mark" apart from the mark as shown in the drawing.
For Suitcases, Traveling Bags, Fitted and Unfitted Suitcases, Portfolios, Wardrobe Trunks, and Steamer Trunks.
Claims use since May 14, 1928.

Ser. No. 272,434. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Sept. 14, 1928.

OL-STAN-BY

For Harness.
Claims use since Jan. 15, 1928.

Ser. No. 272,436. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Sept. 14, 1928.

NAT-URA-TAN

No claim is made to the word "Tan" apart from the mark shown in the drawing.
For Harness.
Claims use since Jan. 15, 1928.



## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 261,230. JEAN JORDEAU, INC., South Orange, N. J., and New York, N. Y. Filed Feb. 6, 1928.

ZIP-SHAVE

No exclusive claim to the word "Shave" appearing on the drawing is made apart from the mark shown.
For Cream Used Before Shaving.
Claims use since Jan. 15, 1912.

Ser. No. 261,622. THE GERSON-STEWART CORPORATION COMPANY, Cleveland, Ohio. Filed Feb. 13, 1928.

SUNBURST

For Cleaners for Glass and Such Named Surfaces.
Claims use since June, 1922.

Ser. No. 262,575. QUINN PRODUCTS CO., Brooklyn, N. Y. Filed Mar. 3, 1928.

CLEANADE
PUMICE HAND CLEANSER

No claim is made to the word "Pumice Hand Cleanser" apart from the mark shown in the drawing.
For Soap.
Claims use since June 26, 1926.

Ser. No. 264,593. LYMAN-BEERS COMPANY, Springfield, Mass. Filed Apr. 9, 1928.

Star-creS

For Material for Polishing Metals, Celluloid, and Hard Rubber, Consisting of a Liquid, Paste, or Brick for Buffing or Polishing Purposes for Materials Which Require a Buffing or Polishing Process to Finish.
Claims use since on or about Apr. 10, 1926.

Ser. No. 267,369. GEORGE L. MAX, doing business as Maxine Products Co., Detroit, Mich. Filed June 2, 1928.

BLUE HEAVEN

For Shampoo in the Nature of a Liquid Soap.
Claims use since Mar. 16, 1928.

Ser. No. 270,555. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Aug. 3, 1928.

Swav

For Shaving Cream to be Used Before Shaving.
Claims use since July 6, 1928.

Ser. No. 270,687. GUSTAV LAVRENZ, Jr., Campbellsport, Wis. Filed Aug. 6, 1928.

*Magic Kloth*

The word "Kloth" is disclaimed apart from the other features of the mark shown in the drawing.
For Chemically-Treated Cloth to be Employed in the Treatment of Automobile Windshields to Prevent the Accumulation of Snow, Ice, and Condensations.
Claims use since July 14, 1928.

Ser. No. 270,783. SOCIETE ANONYME: PARFUMERIE VIOLET, Paris, France. Filed Aug. 8, 1928.

ÉTERNELLE CHANSON

For Soaps, Soap Creams, and Bath Soaps.
Claims use since Apr. 20, 1928.

Ser. No. 272,548. EMERGENCY LABORATORIES, New York, N. Y. Filed Sept. 17, 1928.

POSLAM

For Soap.
Claims use since September, 1910.

Ser. No. 272,908. STEELE-LOBELL COMPANY, Baltimore, Md. Filed Sept. 24, 1928.




For Shoe and Leather Finishes, Polishers, Cleaners, Pastes, Dyes, and Dressings.
Claims use since July, 1924.

Ser. No. 273,114. PICOT LABORATORIES, INC., Buffalo, N. Y. Filed Sept. 28, 1928.




For Soap.
Claims use since July 8, 1928.

## CLASS 5.

### Adhesives.

Ser. No. 270,451. WOODFIX PRODUCTS CORPORATION, also doing business as Woodfix Products Company, Boston, Mass. Filed Aug. 1, 1928.

Wood Fix

For Moldable Repairing Composition for Wood Surfaces in the Form of an Adhesive Paste Having as Its Main Ingredient Finely-Comminuted Wood or Sawdust.
Claims use since on or about June 1, 1928.

Ser. No. 272,243. YAVAN LIMITED, London, England. Filed Sept. 11, 1928.

YAVAN

For Adhesives—Namely, Glue.
Claims use since September, 1924.

## CLASS 6.

### Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 254,688. TAKAMINE FERMENT COMPANY, New York, N. Y. Filed Sept. 13, 1927.

TAKA-DIASTASE

Applicant disclaims exclusive use of the word "Diastase" apart from the mark shown in the drawing.
For Koji, Moyashi, Diastase, Ferments, and Converting Agents.
Claims use since 1895.

Ser. No. 255,567. METALS PROTECTION CORPORATION, Indianapolis, Ind. Filed Oct. 3, 1927.

CHROMILITE

For Salts and Buffing Compounds for Use in Chromium Plating.
Claims use since Jan. 2, 1925.

Ser. No. 260,339. THE MEDICO LABORATORIES, Chicago, Ill. Filed Jan. 19, 1928.

EXY-CURA

For Medicinal Preparation Designed to be Used in the Treatment of Eczema.
Claims use since July 28, 1927.

Ser. No. 262,857. ANTON LOEFFLER, doing business as Purity Products Sales Co., St. Louis, Mo. Filed Mar. 9, 1928.

ZI-LO HW

For Mouth Wash.
Claims use since Jan. 1, 1928.



Ser. No. 263,876. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Mar. 19, 1928.

SRA

For Dyestuffs.
Claims use since Mar. 10, 1924.

Ser. No. 263,966. NOVADEL PROCESS CORPORATION, Buffalo, N. Y., assignor to Lucidol Corporation, Buffalo, N. Y., a Corporation of Delaware. Filed Mar. 29, 1928.



For Benzoyl Peroxide and Other Peroxides and Chemicals of an Oxidizing Character and Useful for Bleaching.
Claims use since about Feb. 15, 1928.

Ser. No. 264,833. MARION E. MOON, doing business as The Urogen Company, New London, Conn. Filed Apr. 14, 1928.

Urogen
-URIC ACID SOLVENT-

No claim is made to the words "Uric Acid Solvent" apart from the mark as shown.
For Medicine Used in the Treatment of Rheumatism, Gout, Sciatica, and Lumbago.
Claims use since June, 1906.

Ser. No. 265,273. WARREN D. HOWE, D. M., doing business as Crown Products Company, Clarence, Mo. Filed Apr. 28, 1928.

CROWN

For Medicines for Fowl Cholera and Roup, White Diarrhea, a Fowl Worm Expeller, and Sheep Worm Liquid.
Claims use since Jan. 1, 1928.

Ser. No. 267,470. THERMO COMPANY, Portland, Oreg. Filed June 4, 1928.

THERMO PAD (THERMOGENE)

The words "Thermo-Pad" and "Thermogene" are disclaimed apart from the other features of the mark shown in the drawing.
For Pad Impregnated with Medicine for Relief of Various Ailments and Pains of the Human Body.
Claims use since Jan. 16, 1928.

Ser. No. 267,949. ALBERT GOLDBERG, doing business as A D C O; Albert Drug Co.; and Albert Laboratories, Philadelphia, Pa. Filed June 13, 1928.

ADC

For Medicinal Preparation for Headache, Colds, Grippe, and Pain; Epsom Salt Compound Tablets, Rheumatic Remedy, Rubbing Liniment, Cough and Cold Syrup, Blood Tonic, a Compound of White Pine and Cough Syrup with Tar, Remedy for the Kidneys, Medicinal Preparation for Regulating the Bowels, Nerve Tonic, Drawing Salve, Healing Salve, Cold Cream, Vanishing Cream, Massage Cream, Medicinal Preparation for the Corns, a Preparation for Gargling the Throat, Corn Plasters, Medicinal Preparation for Irrigating the Bowels, Cough Syrup, Suppositories, and Female Prescription Used for Menstrual Irregularities.
Claims use since Mar. 15, 1928.

Ser. No. 268,685. ENEGLOTARIA MEDICINE CO., INC., New York, N. Y. Filed June 26, 1928.




No claim is made to the words "Rub-Down" and "Porto Rico" apart from the mark as shown in the drawing.
For Rubbing Alcohol.
Claims use since May 18, 1928.

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Ser. No. 268,914. CHAMBERS-GODFREY MFG. CO., Martin, Tenn. Filed June 30, 1928.

CHAMBERS'
ANTI-SKIPPER
COMPOUND

The word "Compound" is disclaimed apart from the other features of the mark shown in the drawing.
For Antiskipper Compound to Prevent Skippers on Cured Meats.
Claims use since 1911.

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Ser. No. 269,409. JEFFRIES & YAUGER MEDICINE CO., doing business as J & Y Medicine Co., Mount Vernon, Ohio. Filed July 11, 1928.



A. H. Jeffries

The picture constituting a part of the mark is a facsimile of a portrait of one of the copartners, A. H. Jeffries.
Also the name "A. H. Jeffries" appearing beneath the picture is a facsimile of the signature of said copartner, A. H. Jeffries.
For Medicine Used in the Treatment of Colds, Influenza, Tuberculosis.
Claims use since Apr. 1, 1928.

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Ser. No. 269,497. ARNOLD LOUIS VAN AMERINGEN, New York, N. Y. Filed July 12, 1928.

PERROL

For Essences of Perfumes, Essences for Perfumery Materials, Aromatic Materials for Perfuming Purposes, Synthetic Perfume Materials, Odoriferous Materials for Perfuming Purposes, and Ethereal Oils.
Claims use since June 14, 1928.

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Ser. No. 269,987. SAMUEL CABOT, INC., Boston, Mass. Filed July 21, 1928.

Samuel Cabot

The trade-mark is a facsimile signature of Samuel Cabot, the predecessor in business of the present applicant.
For Chemical Compound for Preserving Wood, Chemical Composition for Protecting Wounds and Exposed Surfaces on Trees.
Claims use since April, 1925.

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Ser. No. 270,322. DR. LYDIA E. EMERY, doing business as The Patricius Company, Pasadena, Calif. Filed July 30, 1928.

PATRICIUS

For Medicinal Ointment for the Treatment of Inflammation, Pus Formation, and Infection.
Claims use since Dec. 15, 1927.

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Ser. No. 270,553. LENTHERIC, INCORPORATED, New York, N. Y. Filed Aug. 3, 1928.

FORÊT
VIERGE

For Perfumes, Toilet Water, Face Powder, and Talcum Powder.
Claims use since July 20, 1928.



Ser. No. 271,144. NICK G. PAPPAS, Hanna, Wyo. Filed Aug. 16, 1928.



Nick G. Pappas

The signature is an autograph and the picture a portrait of applicant.
For Palliative for Appendicitis, Stomach Disorders, Headaches, Coughs, and Colds.
Claims use since Sept. 20, 1927.

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Ser. No. 271,182. MARY L. GRAHAM, New York, N. Y. Filed Aug. 17, 1928.

KLING

For Toilet Article Consisting of a Vegetable Compound for the Treatment of Eyebrows.
Claims use since November, 1927.

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Ser. No. 271,211. VENTROSAN PRODUCTS, INC., New York, N. Y. Filed Aug. 17, 1928.

*Ventrosan*

For Medical Formula of an Antacid Powder.
Claims use since Mar. 1, 1927.

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Ser. No. 271,290. H. C. BRILL COMPANY, INC., Newark, N. J. Filed Aug. 20, 1928.

BRILL'S
BAKE-LITE

The drawing is lined to denote red.
For Baking Powder.
Claims use since May 26, 1928.

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Ser. No. 271,291. H. C. BRILL COMPANY, INC., Newark, N. J. Filed Aug. 20, 1928.

BRILL'S
TOPS-ALL

For Baking Powder.
Claims use since May 26, 1928.

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Ser. No. 271,470. JOHN G. BETHUNE, doing business as The Bethune Laboratories, Cleveland, Ohio. Filed Aug. 24, 1928.

Nae-Ru

For Medicine for Treating Rheumatism.
Claims use since May 1, 1928.

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Ser. No. 271,572. EUGÈNE SCHUELLER, Paris, France. Filed Aug. 25, 1928.

L'ORÉAL
IMMÉDIA

For Dyes for the Hair and Beard, Hair Lotions, Brilliantine, Perfumes, Face Powders, Face Lotions, Talcum Powders, Rouge, and Dentifrices.
Claims use since July 31, 1928.

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Ser. No. 271,644. VINCENT FINOCCHIO, Brooklyn, N. Y. Filed Aug. 28, 1928.

BRAVURA

The lining shown in the drawing is used for shading purposes only.
For Hair Tonic.
Claims use since July 2, 1928.

Ser. No. 271,719. THETIS LABORATORIES, Detroit, Mich. Filed Aug. 29, 1928.




For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Apr. 10, 1924.

Ser. No. 272,339. RICHARD MCKAY, doing business as Oikimo Co., Ferndale, Mich. Filed Sept. 13, 1928.

OIKMO

For Medicine in Liquid Form Taken Internally for the Treatment of Asthma, Pneumonia, Bronchitis, Diphtheria, and Coughs.
Claims use since Sept. 1, 1928.

Ser. No. 272,365. DANIEL TARANTINO, New York, N. Y. Filed Sept. 13, 1928.




For Hair Tonics.
Claims use since June 1, 1928.

Ser. No. 272,399. ROBERT GERACE, doing business as Twin Cross Chemical Co., Brooklyn, N. Y. Filed Sept. 14, 1928.

ZED

For Insecticide.
Claims use since May 1, 1927.

Ser. No. 272,410. F. E. LAWRENCE, doing business as Larre' Laboratories, Denver, Colo. Filed Sept. 14, 1928.

ASEPTABS



The silhoutte in the drawing is that of Erna Faye Lawrence.
For Female Suppositories.
Claims use since August, 1927.

Ser. No. 272,537. BOSTWICK BROTHERS, Atlanta, Ga. Filed Sept. 17, 1928.




For Powders for Headache and Neuralgia, Castor Oil, Elixir Cramp Bark Compound, Tincture Valerian; Elixir Iron, Quinine, and Strychnine; Tincture Opium Camphorated Paregoric, Elixir Aletris Compound and Elixir Buchu Juniper and Potassium Acetate.
Claims use since Jan. 1, 1925.

Ser. No. 272,568. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Sept. 17, 1928.

MERTHIOLATE

For Medicine or Pharmaceutical Preparation—viz., Sodium Ethyl Mercurithiosalicylate or Organic Mercury Compound Solution Useful in Antisepsis and Treatment of Nose and Throat Infections.
Claims use since Nov. 26, 1926.

Ser. No. 272,659. HOUBIGANT, INC., New York, N. Y. Filed Sept. 19, 1928.

FRAÎCHEUR

For Perfume, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Vegetal.
Claims use since Sept. 12, 1928.



Ser. No. 272,676. E. R. SQUIBB & SONS, New York, N. Y. Filed Sept. 19, 1928.

AMNIOTIN

For Sterile Aqueous Solution Containing the Estrus-Inducing Hormone.
Claims use since Sept. 6, 1928.

Ser. No. 272,681. UNITED DRUG COMPANY, Boston, Mass. Filed Sept. 19, 1928.

Cherrosote

For Medicinal Preparation Containing Creosote and Guaiacol Sulphonates and Used for Coughs, Head Colds, and to Check Gastric Fermentation.
Claims use since Sept. 4, 1928.

Ser. No. 273,117. WILLIAM A. RIGNEY, Newark, N. J. Filed Sept. 28, 1928.




For Medicine for the Stomach, Liver, Kidneys, and Bowels.
Claims use since May 13, 1928.

Ser. No. 273,150. THE MATHIESON ALKALI WORKS, INC., New York, N. Y. Filed Sept. 29, 1928.




For Hypochlorite.
Claims use since Aug. 29, 1928.

Ser. No. 273,165. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Sept. 29, 1928.

Super D

For Cod-Liver Oil.
Claims use since Mar. 6, 1928.

Ser. No. 273,214. FRANK X. TRIMBACH, doing business as the Swish Company, Lexington, Ky. Filed Oct. 1, 1928.

Swish!

For a Preparation in Liquid Form for Treatment of Hair and Scalp.
Claims use since Sept. 20, 1928.

Ser. No. 273,219. ZATEX LABORATORIES, Lakewood, Ohio. Filed Oct. 1, 1928.

ZATEX

For a Vaginal Antiseptic and Treatment for Leucorrhœa.
Claims use since July 18, 1928.

Ser. No. 273,239. WILLIAM C. NEILLY, New York, N. Y. Filed Oct. 2, 1928.

Dianic

For Internal Treatment for Obesity, and to Restore Normal Body Weight.
Claims use since Sept. 24, 1928.

## CLASS 8.

**Smokers' Articles, Not Including Tobacco Products.**

Ser. No. 268,003. MITTELDORFER STRAUS, New York, N. Y. Filed June 13, 1928.

"SKYSCRAPER"

For Novelty Match Containers Not Made of Precious or Semiprecious Metals.
Claims use since May, 1928.

Ser. No. 272,764. LINCOLN PIPE WORKS, Brooklyn, N. Y. Filed Sept. 21, 1928.




G-O-P

For Smoking Pipes.
Claims use since Aug. 8, 1928.

## CLASS 10.

### Fertilizers.

Ser. No. 272,754. COOPER DRUG COMPANY, INC., Norristown, Pa. Filed Sept. 21, 1928.

PlantVim

For Plant Tonics and Plant Foods in the Nature of Fertilizers.
Claims use since June, 1928.

## CLASS 11.

### Inks and Inking Materials.

Ser. No. 268,193. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 16, 1928.




The drawing is lined to show the colors yellow, red, green, and violet, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 268,195. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 16, 1928.




The drawing is lined to show the colors yellow, red, green, and black, which are claimed as features of the mark. No claim being made to the exclusive use of the word "Ink" apart from the mark shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

## CLASS 12.

### Construction Materials.

Ser. No. 269,986. SAMUEL CABOT, INC., Boston, Mass. Filed July 21, 1928.

Samuel Cabot

The trade-mark is the facsimile signature of Samuel Cabot, the predecessor in business of the present applicant.

For Builders' Sheathing, Packing, or Filling, Consisting of a Coarse Paper or of Paper Attached to Fibrous Materials in Layers, Such as Hay, Eel Grass, Etc.; Mortar Color, Roofing Felt, Roofing Pitch; Chemical Compound for Dampproofing Brick, Concrete, Tile, Metal, and Wood and for Protecting Marble and Limestone From Mortar Staining; a Chemical Compound for Waterproofing Brick and for Protection Against Discoloration; and a Chemical Compound for Waterproofing Exterior Concrete, Cement, Limestone, Etc.

Claims use on builders' sheathing, packing, or filling consisting of a coarse paper or of paper attached to fibrous materials in layers, such as hay, eel grass, etc., since April, 1925; on mortar color since April, 1925; on roofing felt since September, 1926; on roofing pitch since September, 1926; on a chemical compound for dampproofing brick, concrete, tile, metal, and wood and for protecting marble and limestone from mortar staining since April, 1925; on a chemical compound for waterproofing brick and for protection against discoloration since April, 1925; and on a chemical compound for waterproofing exterior concrete, cement, limestone, etc., since April, 1925.

Ser. No. 270,421. HENDERSON & HATCHER, Pittsburgh, Pa., assignor to Henderson & Hatcher, Inc., Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 1, 1928.

H-H

For Concrete Blocks, Concrete Floor Slabs, Concrete Roof Slabs, Concrete Steps, Concrete Sills, Concrete Lintels, Concrete Coping, Concrete Fireproofing for Beams and Columns, Concrete Partitions, Concrete Ceiling Slabs, Stucco, Interior and Exterior Plaster, Mortar, and Cement Floor Finish.
Claims use since July 30, 1928.

Ser. No. 270,422. HENDERSON & HATCHER, Pittsburgh, Pa., assignor to Henderson & Hatcher, Inc., Pittsburgh, Pa., a Corporation of Delaware. Filed Aug. 1, 1928.

CEMENTINT

For Stucco, Interior and Exterior Plaster, Mortar, and Cement Floor Finish.
Claims use since July 30, 1928.



Ser. No. 271,067. ECONOMY HOUSING COMPANY, Onawa, Iowa. Filed Aug. 15, 1928.

ECONOMY

For Portable Hog Houses, Chicken Houses, and Brooder Houses.
Claims use since June, 1924.

Ser. No. 271,643. BRUCE FLOORING CORPORATION, Hoboken, N. J. Filed Aug. 28, 1928.

TRI-A-LINE
(Three Lines In One)

The right to the exclusive use of the words "Three Lines in One" is disclaimed.
For Wood Flooring.
Claims use since July 27, 1928.

Ser. No. 272,032. IRVING IRON WORKS COMPANY, Long Island City, N. Y. Filed Sept. 7, 1928.

UNIFIED

For Reenforced Concrete Flooring Structures.
Claims use since Aug. 17, 1928.

Ser. No. 272,033. IRVING IRON WORKS COMPANY, Long Island City, N. Y. Filed Sept. 7, 1928.

ARMORING

For Reenforced Concrete Flooring Structures.
Claims use since Aug. 17, 1928.

Ser. No. 272,034. IRVING IRON WORKS COMPANY, Long Island City, N. Y. Filed Sept. 7, 1928.

CONTINUITY

For Metal Grating for Flooring.
Claims use since Aug. 17, 1928.



## CLASS 13.

### Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 267,620. UTILITY MANUFACTURING CO. INC., Baltimore, Md. Filed June 6, 1928.

GREEN RIBBON

For Kitchen and Bathroom Wire Goods—Namely, Dish Drainers, Coffee and Tea Strainers, Soup Strainers, Jelly Strainers, Soap Dishes, Soap Savers, Sponge Baskets, Toilet-Paper Holders, Tumbler Holders, Towel Bars, Toothbrush Holders, Tooth-Paste Holders, Shaving-Brush Holders, Shaving-Cream Holders, and Towel Racks.
Claims use since Apr. 7, 1928.

Ser. No. 268,746. ELWOOD C. PHILLIPS, Evanston, Ill. Filed June 27, 1928.

ALUMINUM
STEEL
ALUMINUM
3—IN—1

No exclusive claim is made to the articles shown in the drawing nor to the words "Aluminum, Steel, Aluminum" except in conjunction with the mark as shown.
For Rice Boilers, Roasters, Round and Square Layer-Cake Pans, Loaf-Cake Pans, Bread Pans, Preserving Kettles, Soup Pots, Steamers, Dish Pans, Frying Pans, Omlet Pans, French Fryers, Gelatine Moulds, Gem Pans, Cups, Mixing Bowls, Waterless Cookers, and Colanders. The Goods are Made of Aluminum, Steel, or a Combination or Mixture Thereof.
Claims use since May 1, 1928.

Ser. No. 272,533. THE ATLAS BRASS FOUNDRY COMPANY, Columbus, Ohio. Filed Sept. 17, 1928.

ABCO

For Stop and Waste Valves, Boiler Drain Cocks, Floor Flanges, Calking Ferrules, Pipe Plugs, Soldering Nipples, Soldering Bushings, and Mixing Valves.
Claims use since about May 1, 1927.

## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 266,198. FIRTH-STERLING STEEL COMPANY, McKeesport, Pa. Filed May 10, 1928

STAYBRITE

No claim is made to the word "Staybrite" apart from the mark shown.

For Steel in the Form of Sheets, Bars, Rods, Blocks, Discs, Pieces of Steel, Special Shapes, and Forgings.

Claims use since Apr. 20, 1928.

## CLASS 15.

### Oils and Greases.

Ser. No. 261,200. THE MIDWEST REFINING CO., Denver, Colo. Filed Feb. 4, 1928.

MIDWEST

For Gasoline, Naphthas, Kerosenes, Mineral Waxes, Fuel Oils, Unrefined Petroleums, and Lubricating Oils and Greases.

Claims use since Jan. 16, 1928.

Ser. No. 267,627. THE AMERICAN OIL COMPANY, Baltimore, Md. Filed June 7, 1928.

PENN-AMO

For Motor Lubricating Oils and Greases, Auto Lubricating Oils and Greases, Gasoline, and Motor Fuel Oils.

Claims use since June, 1927.

Ser. No. 271,016. THE ALMO CORPORATION, Newark, N. J. Filed Aug. 15, 1928.

DEL-JAY

For Lubricating Oils and Lubricating Greases.

Claims use since June, 1927.

Ser. No. 271,197. QUAKER OIL CORPORATION, St. Louis, Mo. Filed Aug. 17, 1928.




For Lubricating Oil.

Claims use since December, 1924.

Ser. No. 271,630. SOUTHERN OIL STORES, INC., Birmingham, Ala. Filed Aug. 27, 1928.




For Gasoline.

Claims use since May 19, 1928.

Ser. No. 271,669. UNITED REFINING COMPANY, Warren, Pa. Filed Aug. 28, 1928.

EMBLEM

For Gasoline, Lubricating Oils, and Lubricating Greases.

Claims use since February, 1928.



Ser. No. 272,002. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

SULTUR

For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, and Turbine Oil.

Claims use since June 15, 1926.

## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 259,315. AMERICAN PAINT CORPORATION, Duluth, Minn. Filed Dec. 24, 1927.




For Ready-Mixed Paints, Varnishes, Paint Enamels, Stains, White Lead, Colors in Oil, Paint and Varnish Removers, Lacquers, Putty, Primers, Furniture Polish, Floor Oil, and Wood and Iron Fillers in Paste and Liquid Form.

Claims use since March, 1927.

Ser. No. 265,325. ELCO PAINT PRODUCTS, INC., New York, N. Y. Filed Apr. 24, 1928.

ELCO-LITH

For Enamel Paints, Penetrating Stains, Primers, Mill-White Paints, Wood Fillers, Cement Coating (a Paint for Cement Walls), Exterior Paints, Barn Paints, Oxide Paints, Bronze Paints (Powder Form), Putty, Varnishes, Tinting Colors (Paste Form), Paint Removers, Dissolved Shellacs, Driers, Shingle Stain, Floor Paints, Flat White Paints, Turpentine Substitute, Ready-Mixed Paints, Bronze Paints (Liquid Form), and Roof Paints.

Claims use since March, 1910.

Ser. No. 266,391. THE NEWPORT COMPANY, Carrollville, Wis. Filed May 14, 1928.

FLEXO FILM

No claim is made to the word "Film" apart from the mark as shown.

For Dry, Paste, or Ready-Mixed Paints.

Claims use since Mar. 6, 1926.

Ser. No. 269,988. SAMUEL CABOT, INC., Boston, Mass. Filed July 21, 1928.

Samuel Cabot

The trade-mark is the facsimile signature of Samuel Cabot.

For Wood and Shingle Stains, a Paint or Stain for Preserving Wood, a Paint or Stain for Fireproofing Wood, a Paint or Stain for Preserving Metal, Ready-Mixed Paints, Tinting Paints and Stains, Wood-Covering Composition Applied Like a Paint, and Lampblack.

Claims use since April, 1925, on all articles listed except lampblack, which has been used since September, 1926.

Ser. No. 270,343. NIFTY CLEANER CO., Montgomery, Ala. Filed July 30, 1928.

RUSHTAY

For Polishing Composition for Painted, Varnished, or Enameled Surfaces with Incidental Cleaning Properties.

Claims use since July 1, 1928.

Ser. No. 272,161. SOLOMON B. KRAUS, Brooklyn, N. Y. Filed Sept. 10, 1928.

KRAUSCOTE

For Flat White Paints Penetrating Stains, Paint Enamels, Varnishes, and Primers.

Claims use since about Sept. 10, 1926.

## CLASS 17.

### Tobacco Products.

Ser. No. 271,792. BAYUK CIGARS INCORPORATED, Philadelphia, Pa. Filed Aug. 31, 1928.

"BAYUK RIBBON"

Applicant alleges ownership of Certificate No. 214,530, issued June 29, 1926.

For Cigars.

Claims use since Aug. 17, 1928.

## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 270,748. LA SOCIETE ANONYME DES "AUTOMOBILES UNIC," Puteaux, France. Filed Aug. 8, 1928.




The name "Puteaux" is disclaimed apart from the mark shown.

For Bicycles, Bicyclettes, Tricycles, Motor Cycles, Automobiles, Motor Boats, Automobile Trucks, and Aeroplanes.

Claims use since Mar. 15, 1928.

Ser. No. 271,866. THE STUDEBAKER CORPORATION, South Bend, Ind. Filed Sept. 1, 1928.

ERSKINE

For Automobiles.
Claims use since Aug. 2, 1928.

Ser. No. 272,603. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Buffalo and Garden City, N. Y. Filed Sept. 18, 1928.

ROBIN

For Aeroplanes.
Claims use since Jan. 2, 1928.

## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 253,632. WILLIAM N. P. SCHREIBER, doing business as Universal Laboratories, New York, N. Y. Filed Aug. 17, 1927.

"UNIVERSAL"

For Radio Receiving Sets and Vacuum Radiotubes.
Claims use since about February, 1927.

Ser. No. 254,073. ELECTRIC SERVICE SUPPLIES COMPANY, Philadelphia, Pa. Filed Aug. 29, 1927.

CRYSTALLITE

For Conducting Infusible Refractory Filler for Lightning Arresters.
Claims use since about March, 1926.

Ser. No. 261,940. A. B. CATTERALL CO., Des Moines, Iowa. Filed Feb. 20, 1928.

A. B. CATTERALL CO.
McCOURTY'S
ELIMINOISE
TRADE MARK
DES MOINES, IOWA

No claim is made to the exclusive use of the words "Trade-Mark" and "Des Moines, Iowa" apart from the mark shown in the drawing.
For Radio Reception Clarifier, an Assembled Unit for Eliminating Station Interference, Static, and Outside Noises Relative to Radio Reception.
Claims use since Jan. 24, 1928.

Ser. No. 270,852. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Aug. 10, 1928.

NATIONAL
ELECTRIC PRODUCTS
WIRING SYSTEMS

Applicant disclaims the words "Electric Products" and "6 Wiring Systems" apart from the mark as shown in the drawing. The lining is for shading purposes only.
For Conduits for Electrical Wires and Cables and Fittings Therefor, as Follows: Electric Wiring, Conduit Fittings for Electric Wiring, Cable, Lamp Cord, Flexible Cord, Armored Cable, Armored Lamp Cord, Armored-Cable Fittings, Bare Electric Wire, Weatherproof Wire, Lead-Covered Cable, Steel-Covered Cable, Rubber-Covered Wire, Rubber-Covered Cable, Paper-Insulated Cable, Cloth-Insulated Cable, Nonmetallic Flexible Conduit, Nonmetallic Sheathed Cable, Insulating Tubing, Junction Boxes, Outlet Boxes, Extension Rings for Outlet Boxes, Covers for Outlet Boxes, Ceiling Boxes, Gang Boxes, Switch Boxes, Loom Boxes, Metal Molding for Electric Wiring, Metal Molding Fittings for Electric Wiring, Surface Boxes, Insulators, Insulator Brackets, House Racks, Pole Racks, Wire Holders, Flexible Metal Conduits, and Flexible Metal Tubing as Used in Automotive Electrical Equipment.
Claims use since June 1, 1928.



Ser. No. 271,305. LINDSEY & SON, St. Louis, Mo. Filed Aug. 22, 1928.

AJAX
*Manufactured By*
LINDSEY & SON
2113 Pine St. St. Louis, Mo.

The words "Manufactured by Lindsey & Son, 2113 Pine St., St. Louis, Mo." are disclaimed apart from the mark shown in the drawing.
For Batteries.
Claims use since Oct. 27, 1926.

Ser. No. 271,561. PACENT ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Aug. 25, 1928.

PHONOSWITCH

For Electrical Switches for Phonograph Motors.
Claims use since July 31, 1928.

Ser. No. 271,562. PACENT ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed Aug. 25, 1928.

PHONOTROL

For Electric Control for Phonograph Motors.
Claims use since July 31, 1928.

Ser. No. 271,768. NEPTRON CORPORATION, Beverly, Mass. Filed Aug. 30, 1928.

Neptron

No claim is made to the representation of the goods apart from the mark shown in the drawing.
For Electron Radio Tubes.
Claims use since May 15, 1928.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 269,168. WRIGHT & DITSON, Boston, Mass. Filed July 5, 1928.

BEE-LINE

For Golf Clubs.
Claims use since about Oct. 17, 1919.

Ser. No. 269,826. CAMPBELL & VAN BUSKIRK, Boston, Mass. Filed July 19, 1928.

KIDDIE PETS

For Toy Handkerchief Cases and Pocketbooks.
Claims use since June 12, 1928.

Ser. No. 270,055. SKIBOARD CORPORATION, Brooklyn, N. Y. Filed July 23, 1928.

SKIBOARD

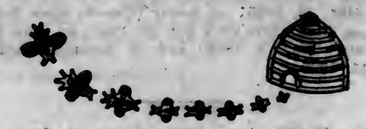
For Self-Propelled Aquaplane.
Claims use since about May 20, 1928.

Ser. No. 272,225. A. MECKY COMPANY, Philadelphia, Pa. Filed Sept. 11, 1928.

WALKING Pull-Toys

The words "Walking Pull-Toys" are herein disclaimed apart from the mark shown in the drawing.
For Walking Pull Toys, Including Toy Vehicles.
Claim use since Aug. 27, 1928.

Ser No. 272,632. WRIGHT & DITSON, Boston, Mass. Filed Sept. 18, 1928.



For Golf Clubs.
Claims use since about Oct. 17, 1919.

## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 269,399. THE E. L. ESSLEY MACHINERY CO., Chicago, Ill. Filed July 11, 1928.



No claim is made to the exclusive use of the words "Machine Tools, Chicago." In the drawing the vertical lining indicates red, the vertical and horizontal lining indicates black, and vertical and horizontal dash lining indicates yellow.
For Vertical Boring Mills, Horizontal Boring Mills, Sensitive Drilling Machines, Drill Presses, Radial Drills, Cylindrical Grinders, Face Grinders, Honing Machines, Key Seaters, Engine Lathes, Turret Lathes, Milling Machines, Pipe Machines, Planers, Arbor Presses, Punch Presses, Punches and Shears, Power Hack Saws, Hack-Saw Blades, Screw Machines, Metal Shapers, Squaring Shears, Tinners' Tools, Tapping Machines, Upsetting and Forging Machines.
Claims use since 1914.

Ser. No. 269,500. THE W-K-M COMPANY, INC., Houston, Tex. Filed July 12, 1928.

W-K-M

Applicant claims ownership of registration No. 151,008, of Jan. 10, 1922.

For Pump Valves, Standing Valve, Pipe Hooks, Pipe-Welding Clamps, Casing and Tubing Locks, Clean-Out Machine for Oil Wells (Well Mast), Drills for Oil Wells, Pipe Cleaning and Painting Machines, Pipe-Straightening Machine, Oil-Well Swab, Pipe Tongs, Tubing Catcher for Oil Wells, Tubing Slips and Spider Winches, Power Take-Offs, Ditch Fillers, Boom Attachment, and Mormon Board.

Claims use on pump valves since May 4, 1928; on standing valve since Nov. 12, 1923; on pipe hooks since Nov. 20, 1926; on pipe-welding clamps since Jan. 5, 1928; on casing and tubing locks since Mar. 15, 1926; on clean-out machine for oil wells (well mast) since Nov. 20, 1927; on drills for oil wells since Aug. 30, 1926; on pipe cleaning and painting machines since Sept. 20, 1924; on pipe-straightening machine since Mar. 1, 1926; on oil-well swab since July 10, 1926; on pipe tongs since Apr. 24, 1928; on tubing catcher for oil wells since Dec. 15, 1925; on tubing slips and spider since Jan. 15, 1924; on winches since Sept. 18, 1925; on power take-offs since Sept. 30, 1926; on ditch fillers since Oct. 26, 1926; on boom attachment since Nov. 8, 1926; and on mormon board since Nov. 15, 1926.

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Ser. No. 269,570. AUTO SIGNAL COMPANY, Long Island City, N. Y. Filed July 14, 1928.

WICHWAY

For Combined Mechanical and Electrical Signals for Attachment to Power-Propelled Vehicles.
Claims use since Apr. 10, 1928.

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Ser. No. 271,725. WHITE SEWING MACHINE CORPORATION, Cleveland, Ohio. Filed Aug. 29, 1928.

DOMESTIC MACHINES

Applicant claims ownership of certificates of registration No. 72,651, issued Feb. 9, 1909; No. 124,298, issued Feb. 4, 1919; No. 228,217, issued May 24, 1927. No claim is made to the use of the word "Machines" apart from the mark as shown.
For Sewing Machines.
Claims use since on or about Aug. 14, 1928.

Ser. No. 272,298. ORANGE-CRUSH COMPANY, Chicago, Ill. Filed Sept. 12, 1928.

THIRST AID STATION

The word "Station" does not form a part of the registration sought apart from the mark shown in the drawing.
For Combined Apparatus Serving as a Drink Stand for Storing and Dispensing Bottled and Other Drinks.
Claims use since about July 1, 1928.

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Ser. No. 272,844. AKTIEBOLAGET RAKBLADSINDUSTRI, Halmstad, Sweden. Filed Sept. 24, 1928.

SWIFT PRIMO

For Razor Blades.
Claims use since May 11, 1926.

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## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 272,731. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

MAGNOLIA

For Washboards.
Claims use since about Jan. 1, 1907.

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## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 266,401. RECORDAK CORPORATION, Rochester, N. Y. Filed May 14, 1928.

RECORDAK

For Photographic Recording Machines, Viewing Devices for Photographs and Projected Images, Photographic Film, and Photographic Film Spools.
Claims use since Mar. 7, 1928.



Ser. No. 269,880. HUMBERT THURSTON SCOTT-HUNTINGTON, New York, N. Y., and Providence, R. I. Filed July 20, 1928.




The representation of the goods on the drawing is disclaimed.
For Electrical Apparatus for Determining the Fiber Content of Textiles.
Claims use since Apr. 8, 1923.

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Ser. No. 270,878. WILLIAM J. CAMERON, doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Filed Aug. 11, 1928.

KRATOCULATOR

For an Optical Apparatus of the Type Used for Testing and Exercising Human Eyes, Measuring and Charting the Optical Fields of Human Eyes.
Claims use since July 1, 1928.

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Ser. No. 271,598. CHAMPION PORCELAIN COMPANY, Detroit, Mich. Filed Aug. 27, 1928.

CHAMPION

For Articles of Refractory Material for Laboratory Use—Namely, Beakers, Casseroles, Evaporating Dishes, Crucibles, Funnels, Capsules, Combustion Boats, Tubes, Covers, Filter Discs, and Rings.
Claims use since Jan. 1, 1928.

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Ser. No. 272,826. HUGO MEYER & CO., New York, N. Y. Filed Sept. 22, 1928.

Correctoscope

For Focusing and Exposure Meter.
Claims use since Aug. 25, 1928.

Ser. No. 273,115. RECORDAK CORPORATION, Rochester, N. Y. Filed Sept. 28, 1928.



For Photographic Film.
Claims use since on or about Sept. 7, 1928.

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## CLASS 27.

### Horological Instruments.

Ser. No. 267,379. L. MONNIER & CIE., La Chaux-de-Fonds, Switzerland. Filed June 2, 1928.

MONYCO

For Watches and Watch Materials—Namely, Luminous Hands and Dials, Dials of All Kinds, All Parts for Watches and Clocks, Alarm Watches and Alarm Clocks, Timekeepers, and Timepieces.
Claims use since 1919.

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## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 260,848. PHI BETA DELTA FRATERNITY, New York, N. Y. Filed Jan. 28, 1928.

Φ B Δ

For Fraternity Pins, Badges, Lapel Buttons, Cuff Links, Tie Clasps, Charms, Pocketknives, Finger Rings and Belt Buckles, All Made of or Plated with Precious Metal.
Claims use since Apr. 4, 1912.

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Ser. No. 261,033. ALPHA SIGMA LAMBDA NATIONAL FRATERNITY, Oak Park, Ill. Filed Feb. 2, 1928.



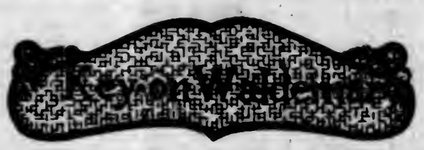

The Greek letters upon the ribbon below the shield constitute the words "Alpha Sigma Lambda."
For Membership Pins, Finger Rings, Lapel Buttons, Watch Charms, Bracelets, and Tie Pins, All Made of or Plated with Precious Metal.
Claims use since Oct. 1, 1918.

Ser. No. 270,296. INTERNATIONAL SILVER COMPANY, Meriden and Bridgeport, Conn. Filed July 28, 1928.

HOME CREST SILVER PLATE

No registration rights are claimed for the words "Silver Plate" apart from the mark shown in the drawing.
For Silver-Plated Flat Tableware.
Claims use since July 19, 1928.

Ser. No. 270,811. UNITED STATES CHAIN CO., Long Island City, N. Y. Filed Aug. 9, 1928.



The color lines appearing upon the drawing indicate that the background of the panel is yellow.
For Watch Chains.
Claims use since July 1, 1928.

Ser. No. 271,097. WEIDLICH STERLING SPOON CO., Bridgeport, Conn. Filed Aug. 15, 1928.

Priscilla Sterling

No claim is made to the use of the word "Sterling" aside from the mark shown on the drawing.
For Silverware—Namely, Hollow Ware and Flatware.
Claims use since Feb. 8, 1928.

Ser. No. 271,495. ATOW MATSUOKA, San Francisco, Calif. Filed Aug. 24, 1928.

LA BIJIN

For Imitation Pearls, Imitation-Pearl Necklaces, and Imitation-Pearl Jewelry for Personal Wear, Not Including Watches.
Claims use since Dec. 24, 1927.

## CLASS 29.

### Brooms, Brushes, and Dusters.

Ser. No. 267,615. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill. Filed June 6, 1928.

DIRT HOUND

For Brushing, Scrubbing, and Cleaning Implements—Namely, Mops and Mopsticks.
Claims use since Sept. 26, 1926.

Ser. No. 268,327. F. TETTER & SONS, Newark, N. J. Filed June 19, 1928.

STAR BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
For Powder Puffs.
Claims use since 1910.

Ser. No. 269,564. RANDAL YOUNG, doing business as Smith-Young Company, Cincinnati, Ohio. Filed July 13, 1928.

KLEAN-WORK

Exclusive use of the words "Klean-Work" apart from the mark is disclaimed.
For Paintbrushes.
Claims use since May 4, 1928.

Ser. No. 271,123. JEAN SCHRAMM, G. m. b. H., Nuremberg, Germany. Filed Aug. 16, 1928.

Electraset

For All Kinds of Paintbrushes, Artists' Brushes, Shaving Brushes, and Brushes for Lacquering.
Claims use since Dec. 15, 1927.

## CLASS 32.

### Furniture and Upholstery.

Ser. No. 253,121. UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed Aug. 5, 1927.

NEVERAX

For Racks Used for Transporting Shoes and Shoe Parts from One Part of a Factory to Another.
Claims use since about the year 1911.



Ser. No. 268,964. CANE AND WINOGURA, Los Angeles, Calif. Filed July 2, 1928.




The words "Frame, Steel, For Living-Room Furniture, Built Like a Skyscraper, Rust-Proof, All Joints Trussed and Welded, Trade Mark," and "Pat. Pending" are hereby disclaimed apart from the mark shown in the drawing. The representation of a piece of furniture is also disclaimed apart from the mark shown in the drawing.
For Stationary Davenports, Bed Davenports, Upholstered and Semiupholstered Chairs, Ottomans, Footstools, Chaise Longues, Slipper Chairs, and Couches.
Claims use since Apr. 1, 1928.

Ser. No. 271,522. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill. Filed Aug. 24, 1928.

CORDET

For Window Shades.
Claims use since Dec. 31, 1927.

Ser. No. 271,525. THE WESTERN SHADE CLOTH COMPANY, Chicago, Ill. Filed Aug. 24, 1928.

WAVERLY

For Window Shades.
Claims use since 1916.

Ser. No. 271,628. THE SHAW-WALKER COMPANY, Muskegon, Mich. Filed Aug. 27, 1928.

Wobble-Blocks

The word "Blocks" is disclaimed apart from the mark as shown. The lining shown is for shading purposes only.
For Adjustable Partition Plates for Filing-Cabinet Drawers.
Claims use since Nov. 16, 1927.

## CLASS 33.

### Glassware.

Ser. No. 272,918. THE PAUL WISSMACH GLASS COMPANY, INC., Long Island City, N. Y. Filed Sept. 24, 1928.

SPARK-O-LITE

For Sheet Glass.
Claims use since June 23, 1928.

## CLASS 34.

### Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 264,203. H. M. SHEER COMPANY, Quincy, Ill. Filed Apr. 2, 1928.

RED-HED

For Coal-Burning Brooder Stoves.
Claims use since September, 1927.

Ser. No. 268,292. HENRY MCKINNIE, Pittsburgh, Pa. Filed June 19, 1928.

MIRACLE

For Heating Appliances—Namely, Gas or Oil Fuel Burning Heaters Suspended Beneath the Floor.
Claims use since Nov. 15, 1906.

Ser. No. 269,957. HOME INCINERATOR COMPANY, Milwaukee, Wis. Filed July 21, 1928.

INCINOR
THE HOME INCINERATOR
Good Riddance
GARBAGE.. RUBBISH TRASH

No claim is made to the words "The Home Incinerator, Good Riddance, Garbage, Rubbish, Trash" apart from the mark as shown.
For Domestic Garbage and Refuse Incinerators.
Claims use since July 21, 1928.

## CLASS 35.

### Belting, Hose, Machinery Packing, and Nonmetallic Tires.

Ser. No. 273,005. RARITAN RUBBER, INC., New Brunswick N. J. Filed Sept. 26, 1928.

AIRMATIC

For Nonmetallic Tires, and Particularly Solid Rubber Tires.
Claims use since June 1, 1928.

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Ser. No. 273,140. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Sept. 29, 1928.

Double Eagle

For Pneumatic Tires Constructed Wholly or Partly of Rubber and Used for Motor Trucks, Motor Cars, Motor Cycles, Bicycles, Aeroplanes, and Other Vehicles, and Including Parts of Such Tires, Such as Treads, Outer Casings, or Tire Shoes, and Inner Tubes Therefor; Rubber Nonskid Devices for Automobile Tires; Inside Tire Protectors, Outside Tire Protectors, Portable Tire and Tube Repair Outfits; and Repair Patches and Bandages.
Claims use since May 11, 1928.

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## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 271,679. GEO. BORGFELDT & CO., New York, N. Y. Filed Aug. 29, 1928.

FURORE PORTABLE

No claim is made to the exclusive right to use the term "Portable" apart from the mark shown.
For Phonographs and Parts Thereof.
Claims use since June 5, 1928.

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## CLASS 37.

### Paper and Stationery.

Ser. No. 255,904. JOSEPH P. COLLINS, St. Louis, Mo. Filed Oct. 11, 1927.

Thank You Wrapping Paper Thank You
No. 9
MANUFACTURED BY
JOSEPH P. COLLINS
312 So. Eighth St. St. Louis, Mo.

The words "Wrapping Paper No. 9 Manufactured by Joseph P. Collins 312 So. Eighth St., St. Louis, Mo." as shown on the mark are disclaimed.
For Wrapping Paper in Sheets and Rolls.
Claims use since on or about Feb. 20, 1924.

Ser. No. 263,944. GÜNTHER WAGNER, Hanover, Germany. Filed Mar. 29, 1928.



Pelikan

For Painter's Cardboard, Rubber Erasers, Permanent Stencils, and Fountain Pens.
Claims use since 1926.

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Ser. No. 271,570. THE RITTEX COMPANY, Indianapolis, Ind. Filed Aug. 25, 1928.

TAB-MINDER

For Loose-Leaf Notebook Tabular Section Dividers.
Claims use since June 1, 1927.

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## CLASS 38.

### Prints and Publications.

Ser. No. 244,352. EXPERIMENTER PUBLISHING COMPANY, New York, N. Y. Filed Feb. 14, 1927.



For Monthly Magazine.
Claims use since Feb. 1, 1927.

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Ser. No. 254,158. MAURICE R. TESHNOR, New York, N. Y. Filed Aug. 30, 1927.

THIS DAY IN WORLD HISTORY

For Syndicated Serial Newspaper Pictures.
Claims use since Aug. 26, 1927.

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Ser. No. 265,237. RADIO DESIGN PUBLISHING CO. INC., Brooklyn, N. Y. Filed Apr. 21, 1928.

RADIO DESIGN

For Publication Issued Intermittently, Generally Every Three Months.
Claims use since Aug. 1, 1927.



Ser. No. 271,459. TIME, INCORPORATED, New York, N. Y. Filed Aug. 23, 1928.




The lining on the drawing is merely for the purpose of shading. The words "The Weekly Newsmagazine" are hereby disclaimed.
For Weekly Magazine.
Claims use since Jan. 3, 1927.

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Ser. No. 272,390. CHICAGO CHAPTER, AMERICAN INSTITUTE OF BANKING, Chicago, Ill. Filed Sept. 14, 1928.

THE BANKMAN

The lining of drawing is for shading only.
For Periodical Published Monthly.
Claims use since 1906.

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Ser. No. 272,408. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Sept. 14, 1928.

Ritzy Rosalie

For Newspaper Section.
Claims use since June 4, 1928.

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Ser. No. 272,433. M. & F. SCHLOSSER PAPER CORPORATION, New York, N. Y. Filed Sept. 14, 1928.

THE Value Mark

For Periodical Published Monthly.
Claims use since Feb. 1, 1921.

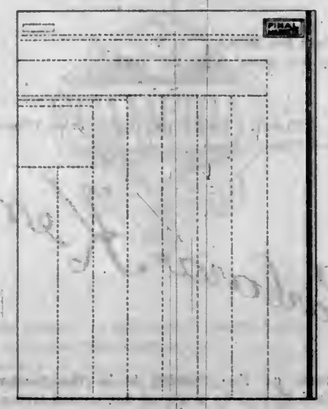
Ser. No. 272,543. CITIZENS RADIO SERVICE BUREAU, Chicago, Ill. Filed Sept. 17, 1928.

CITIZENS Radio Call Book Magazine and Scientific Digest

For Radio Call Book in Magazine Form.
Claims use since Sept. 1, 1928.

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Ser. No. 272,789. THE CHICAGO DAILY NEWS, INC., Chicago, Ill. Filed Sept. 22, 1928.




No exclusive right is claimed in the words displayed nor to the diagrammatic representation in the drawing of a newspaper page apart from the mark shown. The mark is printed in red, and the drawing is lined to indicate red.
For Newspapers, Including Foreign and Domestic News Items, Cartoons, Comic Strips, Contributions, Articles on Radio, on Investments, on Sports, on Bridge Lessons, Book Reviews, Short Stories, Serial Stories, and Illustrations for the Foregoing.
Claims use since July 17, 1928.

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## CLASS 39.

### Clothing.

Ser. No. 247,459. BRUDER BÖHM, Vienna, Austria. Filed Apr. 15, 1927.

BB

For Hats and Hat Bodies Made of Hair, Wool, Felt, or Velour Felt, and Caps, All Intended for the Use of Men, Women, and Children.
Claims use since Dec. 22, 1926.

Ser. No. 253,686. THE ARMSTRONG CATOR COMPANY, Baltimore, Md. Filed Aug. 19, 1927.

Tudor

For Hosiery.
Claims use since Aug. 1, 1927.

Ser. No. 255,746. DUNLAP & CO., New York, N. Y. Filed Oct. 7, 1927.

SUNMIST

For Hats for Men.
Claims use since Sept. 23, 1927.

Ser. No. 255,841. COLUMBIA OUTFITTING COMPANY, Los Angeles, Calif. Filed Oct. 10, 1927.

Barbara Kent

The name on the drawing is in the handwriting of one Barbara Kent, who is a bona fide person living at Hollywood, Calif.
For Ladies' Apparel—Namely, Suits, Dresses, and Coats.
Claims use since Apr. 30, 1927.

Ser. No. 261,709. HANES HOSIERY MILLS COMPANY, Winston-Salem, N. C. Filed Feb. 15, 1928.

ANKLE RING

For Hosiery.
Claims use since Jan. 2, 1928.

Ser. No. 261,991. SPORTCRAFT KNITTING & MFG. CO., Seattle, Wash. Filed Feb. 20, 1928.

Classmate

For Women's and Girls' Knitted Sweaters and Jackets and Skirts.
Claims use since on or about Sept. 1, 1927.

Ser. No. 262,231. LINDE & RUBIN, INC., New York, N. Y. Filed Feb. 25, 1928.

SPIRIT OF YOUTH

For Dresses, Gowns, and Wraps for Misses and Women.
Claims use since Nov. 1, 1927.

Ser. No. 262,678. PURITAN KNITTING MILLS, INC., Philadelphia, Pa. Filed Mar. 6, 1928.

V

No claim is made to the word "Kote" apart from the mark shown.
For Knitted Jackets for Men, Women, and Children.
Claims use since about January, 1923.

Ser. No. 266,055. ABRAHAM TESLER, Atlanta, Ga. Filed May 7, 1928.

FINE RELSET HOSIERY

The words "Fine Hosiery" are disclaimed apart from the mark shown on the drawing.
For Men's and Women's Hosiery.
Claims use since Mar. 1, 1928.

Ser. No. 267,333. ISRAEL H. ARONSON, New York, N. Y. Filed June 2, 1928.

TRIMORE CLOTHES

Applicant disclaims the word "Clothes."
For Young Men's and Boys' Suits and Overcoats.
Claims use since Feb. 1, 1924.



Ser. No. 268,417. LOUIS BIRNS & SONS, New York, N. Y. Filed June 21, 1928.

ROCKWOOD L.B.S.

For Leather Soles for Shoes and Slippers.
Claims use since Apr. 6, 1922.

Ser. No. 269,139. O'CONNELL HAT CO. INC., New York, N. Y. Filed July 5, 1928.

Colleen Paris New York

Applicant does not claim the right to the exclusive use of the geographical terms "Paris" and "New York."
For Ladies' Hats.
Claims use since Apr. 15, 1927.

Ser. No. 270,082. JOHNSON & COMPANY, St. Peter, Minn. Filed July 24, 1928.

CLIPPER

For Men's Overalls, Work Pants, Work Shirts, Work Coats, Sheep-Lined Coats, Mackinaws, and Leather Coats.
Claims use since May 15, 1926.

Ser. No. 270,205. RUPERT A. RYLEY, New York, N. Y. Filed July 26, 1928. Under 10-year proviso.

Rupert A. Ryley Fifth Ave. New York

For Men's Made-to-Order and Ready-Made Suits or Clothing.
Claims use since 1890.

Ser. No. 270,435. ARNOLD, CONSTABLE & CO., INC., New York, N. Y. Filed Aug. 2, 1928.

Ardelle

For Ladies' and Young Misses' Dresses, Coats, Suits, Waists for Outer Wear, Robes, Gowns, Stockings, and Skirts.
Claims use since Jan. 1, 1926.

Ser. No. 270,628. CAMBRIA SILK HOSIERY CO., Philadelphia, Pa. Filed Aug. 6, 1928.

CAMBRIA

No claim is made to the word "Cambria" apart from the mark as shown in the drawing.
For Hosiery.
Claims use since June 18, 1928.

Ser. No. 270,667. BURLINGTON OVERALL MANUFACTURING COMPANY, Kansas City, Mo. Filed Aug. 6, 1928.

FULL-PAY

For Overalls and Jackets.
Claims use since June 30, 1928.

Ser. No. 270,931. J. C. HAARTZ COMPANY, New Haven, Conn. Filed Aug. 13, 1928.

GRAY DAY

For Raincoats for Men, Women, and Children.
Claims use since June 5, 1928.

Ser. No. 271,052. EDGAR S. KIEFER TANNING COMPANY, Grand Rapids, Mich. Filed Aug. 15, 1928.



No registration rights are claimed in the expression "Kutwel" except in association with the other features of the mark.

For Counters, Welting, Heels, and Box Toes.
Claims use since Aug. 1, 1912.

Ser. No. 271,145. PIONEER SUSPENDER COMPANY, Philadelphia, Pa. Filed Aug. 16, 1928.




For Suspenders, Belts for Outer Wear, and Garters.
Claims use since June 1, 1928.

Ser. No. 271,274. J. SCHOENEMAN, INCORPORATED, Baltimore, Md. Filed Aug. 18, 1928.

GREENLY

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Jan. 31, 1928.

Ser. No. 271,422. BEN. GERSHEL DRESS CORP., New York, N. Y. Filed Aug. 23, 1928.

Madonna

For Ladies' and Misses' Dresses.
Claims use since about June 1, 1928.

Ser. No. 272,087. WEINERTH KNITTING & MACHINE CO., Reading, Pa. Filed Sept. 8, 1928.

CELEBRITY

For Knitted Underwear and Hosiery for Men, Women, and Children.
Claims use since Mar. 8, 1928.

Ser. No. 272,211. HICKEY-FREEMAN CO., Rochester, N. Y. Filed Sept. 11, 1928.

Nula

For Men's Overcoats and Topcoats.
Claims use since Aug. 20, 1928.

Ser. No. 272,594. WINGET KICKERNICK COMPANY, Minneapolis, Minn. Filed Sept. 17, 1928.

Kickernick
Restwave

For Pajamas.
Claims use since Aug. 28, 1928.

## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 271,837. WALDES KOH-I-NOOR, INC., Long Island City, N. Y. Filed Aug. 31, 1928.

INTERWOVEN

For Hooks and Eyes.
Claims use since July, 1927.

## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 245,195. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Mar. 4, 1927.

Furlana

For Woolen Piece Goods.
Claims use since Jan. 3, 1927.



Ser. No. 263,046. MEXIA TEXTILE MILLS, Mexia, Tex. Filed Mar. 12, 1928.




For Cotton Duck in the Piece.
Claims use since Mar. 1, 1925.

Ser. No. 263,047. MEXIA TEXTILE MILLS, Mexia, Tex. Filed Mar. 12, 1928.




For Cotton Duck in the Piece.
Claims use since Mar. 1, 1925.

Ser. No. 264,555. BLOOMSBURG SILK MILL, Bloomsburg, Pa., and New York, N. Y. Filed Apr. 9, 1928.

Parkway Silks

No rights are asserted to the use of the word "Silks" aside from the mark as shown in the drawing.
For Silk Piece Goods.
Claims use since Mar. 12, 1928.

Ser. No. 268,372. HEMSTREET BROTHERS, Salt Lake City, Utah. Filed June 20, 1928.




The term "Quality" is disclaimed apart from the other features of the mark shown in the drawing.
For Cotton and Rayon Lace Curtains, Cotton Sheets and Pillowcases; Cotton, Rayon, and Silk Bedspreads; Cotton and Linen Table Cloths and Napkins; Cotton, Woolen, and Mixed Bed Blankets and Comforters.
Claims use since January, 1928.

Ser. No. 271,540. EASTERN FINISHING WORKS, Kenyon, R. I. Filed Aug. 25, 1928.

SOUTHLAND STRIPES

No claim is made to the exclusive use of the word "Stripes" apart from the mark shown.
For Awning Cloth in the Piece.
Claims use since July 17, 1928.

Ser. No. 271,839. HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed Aug. 31, 1928.

VIKING

For Textile Carpets.
Claims use since Aug. 8, 1928.

Ser. No. 272,392. DREY, SIMPSON & COMPANY LIMITED, South Reddish, Stockport, and Manchester, England. Filed Sept. 14, 1928.

LLAMOVEL

For Cloths and Stuffs of Wool, Worsted, or Hair Having a Pile Surface, the Same Being Piece Goods.
Claims use since February, 1928.

Ser. No. 272,401. HERBERT WHITWORTH, LIMITED, Manchester, England. Filed Sept. 14, 1928.

APOLLO

For Cotton Handkerchiefs Not in the Piece.
Claims use since Feb. 8, 1928.

Ser. No. 272,527. JOSEPH AMSTER, New York, N. Y. Filed Sept. 17, 1928.

Sani-tific
TRADE MARK

Applicant disclaims the words "Trade-Mark" apart from the mark shown in the drawing.
For Handkerchiefs.
Claims use since Oct. 1, 1927.

Ser. No. 272,740. L. & E. STERN, New York, N. Y. Filed Sept. 20, 1928.

BISKRAH

For Silk and Wool Mixed Piece Goods.
Claims use since Sept. 11, 1928.

Ser. No. 272,937. THE ESMOND MILLS, Esmond, R. I. Filed Sept. 25, 1928.

The Intimate Blanket

No claim is made to the exclusive use of the words "The" and "Blanket" apart from the mark shown.
For Textile Blankets.
Claims use since Sept. 14, 1928.

Ser. No. 273,136. DUPLAN SILK CORPORATION, New York, N. Y. Filed Sept. 29, 1928.

DU RAY MANCE

For Rayon and Silk Piece Goods and Mixtures Thereof.
Claims use since Sept. 1, 1928.

Ser. No. 273,138. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Sept. 29, 1928.

Karrateen

For Woolen Piece Goods.
Claims use since Aug. 10, 1928.

Ser. No. 273,218. THE WOOLEN CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 1, 1928.

FORENWAY

For Wool, Worsted, Cotton, Silk, Rayon, Linen, and/or Combinations Thereof.
Claims use since Sept. 12, 1928.

Ser. No. 273,286. FRED BUTTERFIELD & CO., INC., New York, N. Y. Filed Oct. 3, 1928.

AIRWAY

For Piece Goods Composed of Cotton, Linen, Silk, Rayon, and/or Combinations Thereof.
Claims use since Aug. 31, 1928.

## CLASS 43.

### Thread and Yarn.

Ser. No. 269,717. CHICKASAW THREAD COMPANY, Shelby, N. C. Filed July 17, 1928.



For Thread and Yarn.
Claims use since about Oct. 1, 1924.

## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 272,106. KOTEX COMPANY, Chicago, Ill. Filed Sept. 8, 1928.




The lining of the rectangular background indicates the color blue. The cross lining within the oval border has no color significance. No claim is made to the exclusive use of the words "Extra Thickness."
For Sanitary Napkins.
Claims use since July 25, 1928.

## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 261,878. WILLIAM F. HALL, Jr., doing business as Cincolade Manufacturing Co., Statesville, N. C. Filed Feb. 18, 1928.

Cincolade

For a Carbonated Beverage and for a Syrup for Use in Making Carbonated Beverages.
Claims use since Oct. 11, 1927.



Ser. No. 272,878. BIG ROCK WATER CO., Franklin, Pa. Filed Sept. 14, 1928.

WHANNIS

For Table Waters and Other Maltless, Nonalcoholic Beverages.
Claims use since 1905.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 237,082. THOMAS M. LOW & COMPANY, Fresno, Calif. Filed Sept. 10, 1926.

"The Token of Quality"
LOW-ELL

No claim is made to the words "The Token of Quality" apart from the other features of the mark shown in the drawing.
For Dried Calimyrna Figs.
Claims use since February, 1926.

Ser. No. 246,336. EGG PATENTS LIMITED, London, England. Filed Mar. 25, 1927.




For Eggs, Egg Yolks, Preserved Whole Eggs, Preserved Egg Yolks, Preserved Egg Whites, Egg Oil for Use with Other Ingredients as an Article of Food, Albumen, and Lecithin for Use with Other Ingredients as an Article of Food.
Claims use since Jan. 11, 1927.



Ser. No. 246,337. EGG PATENTS LIMITED, London, England. Filed Mar. 25, 1927.

TUHEN

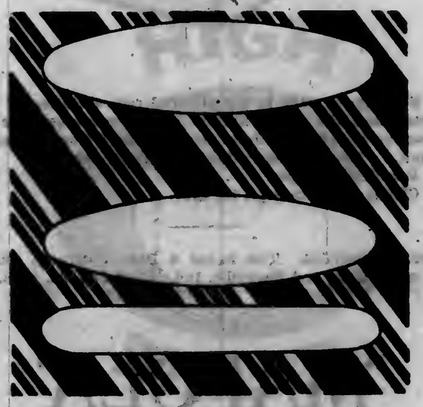
For Eggs, Egg Yolks, Preserved Whole Eggs, Preserved Egg Yolks, Preserved Egg Whites, Egg Oil for Use with Other Ingredients as an Article of Food, Albumen, and Lecithin for Use with Other Ingredients as an Article of Food.
Claims use since Jan. 11, 1927.

Ser. No. 246,338. EGG PATENTS LIMITED, London, England. Filed Mar. 25, 1927.



For Eggs, Egg Yolks, Preserved Whole Eggs, Preserved Egg Yolks, Preserved Egg Whites, Egg Oil for Use with Other Ingredients as an Article of Food, Albumen, and Lecithin for Use With Other Ingredients as an Article of Food.
Claims use since Jan. 11, 1927.

Ser. No. 255,972. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Oct. 12, 1927.



The outline of the label is disclaimed apart from the mark shown in the drawing.
For Chewing Gum.
Claims use since June 1, 1927.

Ser. No. 258,710. ALEXANDER-BALART COMPANY, San Francisco, Calif. Filed Dec. 10, 1927.




The symbol "A-1" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.

For Coffee.

Claims use since Sept. 1, 1927.

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Ser. No. 258,946. FLOYD JOURNEAY, Woodbridge, Calif. Filed Dec. 15, 1927.




No claim is made to the pictorial representation of the goods and the representation of the container nor to descriptive notation "Juice Grapes" apart from the mark shown. The drawing is lined to indicate shading.

For Fresh Grapes.

Claims use since Sept. 19, 1927.

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Ser. No. 260,534. THE SEARS & DERR COMPANY, Chillicothe, Ohio, and Boonville, Ind. Filed Jan. 23, 1928.

"MAPOLA"

For Food-Flavoring Extracts and Table Syrups.

Claims use since Jan. 10, 1928.

Ser. No. 260,619. MORRIS SAMUEL ARKIN, doing business as Arkin Bros., Detroit, Mich. Filed Jan. 25, 1928.

MY FAVORITE

For Horse-Radish, Mustard, Marmalade, Peanut Butter, Pickles, Relishes, Jams, Jellies, Ketchup, Honey, Table Syrup, Fruit Preserves, Olives, and Mayonnaise Dressing.

Claims use since Sept. 1, 1927.

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Ser. No. 262,176. P. F. PETERSEN BAKING CO., Omaha, Nebr. Filed Feb. 24, 1928.

PETER PAN

For Cake and Sweet Rolls.

Claims use since April, 1923.

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Ser. No. 262,862. THE MIRROR, New York, N. Y. Filed Mar. 9, 1928.

THYNMINTS

For Candy.

Claims use since Sept. 1, 1912.

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Ser. No. 263,007. MINNEAPOLIS ALLIED GROCERS, INC., Minneapolis, Minn. Filed Mar. 12, 1928.

City of Lakes

For Canned Fruits and Vegetables—Namely, Canned Beans, Canned Corn, Canned Tomatoes, Canned Peas, Canned Pumpkin—and Butter.

Claims use since Sept. 10, 1927.

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Ser. No. 263,112. L. VAN BOKKELEN, Buenos Aires, Argentina. Filed Mar. 13, 1928.

Vanbo

For Fresh Fruit and Vegetables—Namely, Pears, Apples, Melons, Lettuce, Grapes, and Corn; and Canned Goods—Namely, Sweetened Condensed Milk, Unsweetened Evaporated Milk, Sardines, and Oysters.

Claims use since May 31, 1918.



Ser. No. 263,916. W. H. BARTON & SONS, Augusta, Ga. Filed Mar. 29, 1928.




No claim is made to the words "Ice Cream."

For Ice Cream.

Claims use since Apr. 9, 1928.

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Ser. No. 264,089. DANIEL J. DRISCOLL, New York, N. Y. Filed Mar. 31, 1928.

BARK-O



For Dog Food Which Consists of Ground Bone, Corn Meal, and Flour.

Claims use since Oct. 1, 1927.

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Ser. No. 264,933. ELVERA D. WALDMAN, Chicago, Ill., doing business as Nut-Cia Edible Nut Oil Product Co., Boston, Mass. Filed Apr. 16, 1928.

Nut-Cia

For Edible Nut Oils Used as Lard Substitutes, Cooking and Salad Oils.

Claims use since July 1, 1907.

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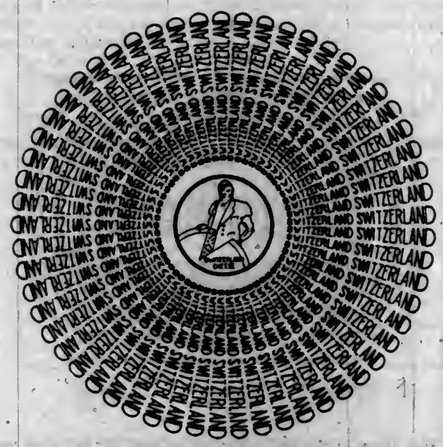
Ser. No. 265,045. GRENNAN BAKERIES, INCORPORATED, Chicago, Ill. Filed Apr. 18, 1928.

Silver Fluff

For Cake.

Claims use since Mar. 20, 1922.

Ser. No. 265,103. FRED HAEBERLI, New York, N. Y. Filed Apr. 19, 1928.




No claim is made to the geographical word "Switzerland" and the descriptive word "Cheese" apart from the mark as shown.

For Cheese Made in Switzerland.

Claims use since Mar. 14, 1928.

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Ser. No. 265,209. THE GUYMON PETRO MERCANTILE COMPANY, Hutchinson, Kans. Filed Apr. 21, 1928.

HIGH VP

For Canned Fruits, Canned Vegetables, Canned Oysters, Canned Salmon, and Condiments—i. e., Pickles, Olives, Mustard, Pepper Sauce, Catsup, and Vinegar; Food-Flavoring Extracts, Fruit Preserves, Jelly, Jam, Dried Beef in Glass, Mincemeat in Glass, and Preparation for Sandwich Spread.

Claims use since July 20, 1908.

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Ser. No. 265,297. SALTER CANNING COMPANY, North Rose, N. Y. Filed Apr. 28, 1928.

HIGH C BRAND

The word "Brand" does not form a part of the registration sought apart from the mark shown in the drawing.

For Canned Berries—Namely, Raspberries; Canned Fruits—Namely, Apples, Cherries, and Pears; Canned Vegetables—Namely, Beans and Peas.

Claims use since 1915.

Ser. No. 265,468. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Apr. 27, 1928.




The lining in the drawing, conventional for red, does not form a part of registration sought.
For Candy Bars.
Claims use since about Dec. 1, 1927.

Ser. No. 265,728. LAKE CHARLES RICE MILLING COMPANY, Lake Charles, La., assignor to Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Filed May 1, 1928.

"PACK-O-BULK"

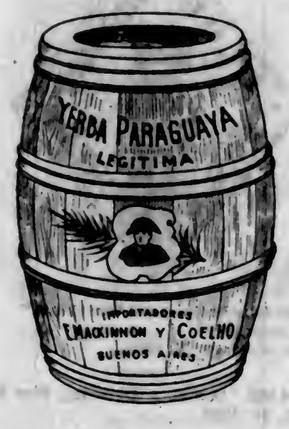
For Rice.
Claims use since Apr. 27, 1928.

Ser. No. 265,818. BEN WEINSTEIN, doing business as Ben Weinstein Company, Peoria, Ill. Filed May 2, 1928.



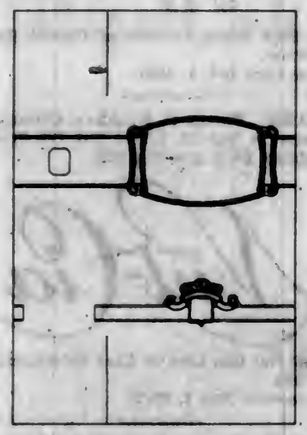

For Malt Syrup.
Claims use since Feb. 15, 1928.

Ser. No. 266,255. E. MACKINNON & COELHO, Buenos Aires, Argentina. Filed May 11, 1928.




The terms "Yerba Paraguaya, Legitima, Importadores, E. MacKinnon y Coelho," and "Buenos Aires" are disclaimed apart from the mark shown in the drawing.
For Paraguayan Tea (Yerba Mate).
Claims use since Dec. 15, 1920.

Ser. No. 267,449. OLD TRUSTY DOG FOOD COMPANY, Needham Heights, Mass. Filed June 4, 1928.



The representation of the carton is disclaimed apart from the mark as shown on the drawing.
For Dog Food.
Claims use since February, 1925.



Ser. No. 267,734. ACME FRUIT COMPANY, New York, N. Y., and Fort Pierce, Fla. Filed June 9, 1928.

ACME

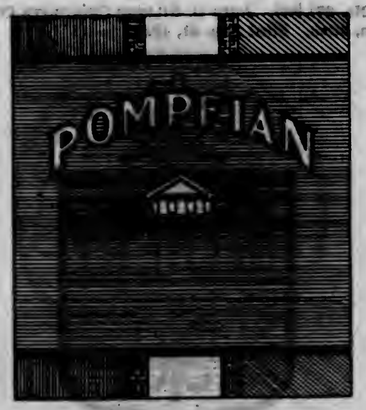
For Fruits in Their Natural State—Namely, Oranges, Grapefruit, Tangerines, Lemons, Kumquats, Pineapples, and Avocado Pears.
Claims use since 1910.

Ser. No. 267,977. LOS ANGELES BREWING CO., Los Angeles, Calif. Filed June 13, 1928.

PUT EASTSIDE INSIDE

For Malt Extract for Food Purposes and Malt Syrup.
Claims use since Mar. 26, 1928.

Ser. No. 267,994. THE POMPEIAN CORPORATION, Baltimore, Md. Filed June 13, 1928.



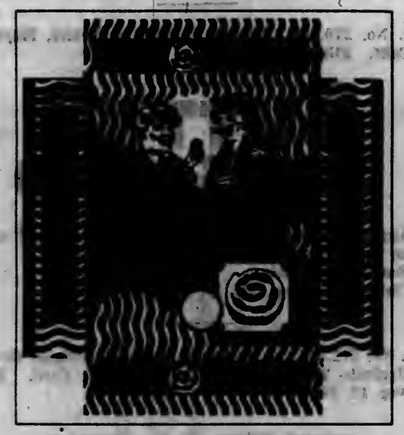

The trade-mark as used comprises the word "Pompeian" in black-bordered white letters upon a blue background, and furthermore comprises a white temple with a green olive branch and yellow fruit upon the branch. Above and below the temple and olive branch is a border consisting of stripes colored red, yellow, white, yellow, and green respectively, the red and green stripes being of equal width and the yellow stripes being of equal width.
For Olive Oil.
Claims use since 1912.

Ser. No. 268,052. CHAS. P. MEAD & SONS INC., Rochester, N. Y. Filed June 14, 1928.




No claim is made for the words "Canadian Style" apart from the mark as shown.
For Malt Extract
Claims use since Apr. 1, 1926.

Ser. No. 268,625. NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed June 25, 1928.



No claim is made to the outline of the label apart from the mark as shown.
For Licorice Candy.
Claims use since Feb. 1, 1928.

Ser. No. 268,808. PINNACLE MILLS, Morristown, Tenn. Filed June 28, 1928.




For Wheat Flour, Flour Meal, and Livestock Foodstuffs.
Claims use since June 1, 1928.

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Ser. No. 270,148. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.

**SUTTER HALVES O'GOLD**

Applicant disclaims the descriptive word "Halves" apart from the mark shown in the drawing.
For Canned Fruits.
Claims use since July 19, 1928.

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Ser. No. 270,151. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.

**SUTTER SLICES O'GOLD**

Applicant disclaims the descriptive word "Slices" apart from the mark shown in the drawing.
For Canned Fruits.
Claims use since July 19, 1928.

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Ser. No. 271,183. J. E. GRANT, doing business as Grant's Hygienic Food Products Co., Berkeley, Calif. Filed Aug. 17, 1928.

**"ELIXIR of YOUTH"**

For Crackers.
Claims use since May 29, 1925.

Ser. No. 271,287. W. H. BOOTH & Co., Santa Ana, Calif. Filed Aug. 20, 1928.

**KENO**

For Condiments,—Namely, Chili Powder (a Mixture of Ground Chili and Other Condiments), Dried Vegetables, Canned Vegetables, Canned Tamales, Canned Chili con Carne (a Mixture of Meat and Condiments); Sauces,—Namely, Chili Salsa (a Mixture of Fresh Chili, Other Vegetables, and Condiments), and Pepper Sauce (a Partial Solution of Pepper Pods in Vinegar); and Nuts in Their Natural State.
Claims use since July 16, 1928.

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Ser. No. 271,451. NEW ORLEANS COFFEE CO., LTD., New Orleans, La. Filed Aug. 23, 1928.

**COUNTRY MAID**

For Cane Syrup.
Claims use since about 1915.

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Ser. No. 271,662. PARK, HOLTORF & GUY, New York, N. Y. Filed Aug. 28, 1928.

**PAMPA**

For Dressed Turkeys, Eggs, Fresh Grapes, Melons, Butter, and Cheese.
Claims use since Jan. 16, 1928.

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Ser. No. 271,809. JOHN O. GILBERT CHOCOLATE CO., Jackson, Mich. Filed Aug. 31, 1928.




The drawing is lined to indicate blue.
For Candy.
Claims use since June 1, 1928.



Ser. No. 271,814. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Aug. 31, 1928.




No claim is made for the word "Sandwich" apart from the mark shown.
For Candy-Confection Sandwich.
Claims use since about May 21, 1927.

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Ser. No. 272,008. SANITARY GROCERY COMPANY, INCORPORATED, Washington, D. C. Filed Sept. 6, 1928.

**SANICO**

For Bread, Eggs, Peanut Butter, and Wheat Flour.
Claims use since Jan. 14, 1928.

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Ser. No. 272,042. BRADFORD VAN R. MOORE, doing business as Camp Creek Duck Farm, Monticello, Ill. Filed Sept. 7, 1928.




No claim is made to the pictorial representation of the goods as shown on the drawing except in association with the trade-mark as a whole.
For Poultry, Particularly Dressed Duck.
Claims use since on or about Mar. 15, 1928.

Ser. No. 272,103. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y. Filed Sept. 8, 1928.




The word "Fos-For-Us" is disclaimed apart from the mark shown.
For Stock and Poultry Food Supplement.
Claims use since Jan. 1, 1928.

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Ser. No. 272,160. KRAK-O-WHEAT COMPANY, Redwood Falls, Minn. Filed Sept. 10, 1928.

**KRAK-O-WHEAT**

No claim is made to the word "Wheat" apart from the mark shown.
For Breakfast Cereal.
Claims use since Sept. 4, 1928.

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Ser. No. 272,184. BAYARD S. SCOTLAND, doing business as Golden Age Co., Joliet, Ill. Filed Sept. 10, 1928.

**GOLDEN AGE JEL**

The word "Jel" does not form a part of the registration sought apart from the mark shown in the drawing.
For Gelatin Dessert.
Claims use since July 16, 1928.

Ser. No. 272,222. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La. Filed Sept. 11, 1928.

PACK-O-BULK

For Rice.
Claims use since Aug. 29, 1928.

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Ser. No. 272,363. SWIFT AND COMPANY, Chicago, Ill. Filed Sept. 13, 1928.

*Fromay*

For Food Compound of Cheese, Bacon, Milk Solids, and Mineralized Proteins.
Claims use since June 28, 1928.

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Ser. No. 272,364. SWIFT AND COMPANY, Chicago, Ill. Filed Sept. 13, 1928.

York Daisy

For Cured Pickled and Smoked Pork.
Claims use since Feb. 17, 1926.

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Ser. No. 272,446. STOKELY BROTHERS & COMPANY, Newport, Tenn. Filed Sept. 14, 1928.

*Sugar Creek*

For Canned Vegetables, Tomato Catsup, Kraut Juice, Hominy in Cans, and Pork and Beans in Cans.
Claims use since 1925.

Ser. No. 272,523. AMERICAN CEREAL-COFFEE COMPANY, Chicago, Ill. Filed Sept. 17, 1928.

H IS WEALTH

For Cereal Substitute for Coffee.
Claims use since Oct. 11, 1905.

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Ser. No. 272,524. AMERICAN CEREAL-COFFEE COMPANY, Chicago, Ill. Filed Sept. 17, 1928.

JAVELLE

For Cereal Substitute for Coffee.
Claims use since Sept. 15, 1905.

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Ser. No. 272,525. AMERICAN CEREAL-COFFEE COMPANY, Chicago, Ill. Filed Sept. 17, 1928.

CHICTONE

For Coffee Substitute.
Claims use since 1917.

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Ser. No. 272,526. AMERICAN CEREAL-COFFEE COMPANY, doing business as Likoffy Sales Company, Chicago, Ill. Filed Sept. 17, 1928.

LIKOFFY

For Coffee Substitute.
Claims use since on or about Aug. 15, 1928.



Ser. No. 272,579. REID MURDOCH AND CO., Chicago, Ill. Filed Sept. 17, 1928.

TEENIE WEENIE

For Candy—Namely Taffies.
Claims use since Sept. 6, 1928.

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Ser. No. 272,817. KEEBLER WEYL BAKING CO., Philadelphia, Pa. Filed Sept. 22, 1928.

SPREADS

For Biscuits.
Claims use since Aug. 9, 1928.

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Ser. No. 272,818. THE LAMAR ALFALFA MILLING CO., Lamar, Colo. Filed Sept. 22, 1928.

DUPLEX

For Alfalfa Meal.
Claims use since December, 1927.

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Ser. No. 272,932. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Filed Sept. 25, 1928.

SEABOARD

For Fresh Citrus Fruit—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Aug. 1, 1928.

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Ser. No. 272,948. CHARLES T. MCCORMICK, doing business as Alphabet Chewing Gum Co., Chicago, Ill. Filed Sept. 25, 1928.

ALPHABET

A
B C D
E

No claim is made to the letters "A, B, C, D," and "E" apart from the mark shown.
For Chewing Gum.
Claims use since Sept. 18, 1928.

Ser. No. 272,951. NATIONAL NUT COMPANY OF CALIFORNIA, Oakland, Calif. Filed Sept. 25, 1928.

Baby PEANUTS

No registration rights are claimed in the word "Peanuts."
For Salted Peanuts.
Claims use since Aug. 10, 1928.

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Ser. No. 272,976. CANOGA CITRUS ASSOCIATION, Owensmouth, Calif. Filed Sept. 26, 1928.

ROSITA

For Fresh Citrus Fruits.
Claims use since May 24, 1928.

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Ser. No. 273,004. FLORA PARTENICO, Los Angeles, Calif. Filed Sept. 26, 1928.

LAXI THINO

For Bread, Breakfast Food in Granular Form.
Claims use since Aug. 30, 1928.

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Ser. No. 273,025. SUTTER PACKING CO., Mayfield, Calif. Filed Sept. 26, 1928.

*Red Check*

For Canned Fruits.
Claims use since Apr. 15, 1928.

Ser. No. 273,034. C. E. WELCH, Merced, Calif. Filed Sept. 26, 1928.

**HELLO THERE!**

For Fresh Grapes and Fresh Deciduous Fruits.
Claims use since July 2, 1928.

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Ser. No. 273,036. WILLIAMSON CANDY CO., Chicago, Ill. Filed Sept. 26, 1928.

**Meadow Gold**

For Candy.
Claims use since Sept. 1, 1928.

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## CLASS 48.

### Malt Beverages and Liquors.

Ser. No. 268,091. M. K. GOETZ BREWING COMPANY, St. Joseph, Mo. Filed June 15, 1928.

**COUNTRY TAVERN**

For Nonalcoholic, Malt Cereal Beverages.
Claims use since May 28, 1928.

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Ser. No. 271,512. JACOB RUPPERT, New York, N. Y. Filed Aug. 24, 1928.



Applicant claims ownership of registered Trade-Mark Certificate No. 74,484, issued July 13, 1909.
For Nonalcoholic, Cereal, Malt Beverages.
Claims use since Oct. 28, 1919.

## CLASS 49.

### Distilled Alcoholic Liquors.

Ser. No. 263,672. THE SHERWOOD DISTILLING AND DISTRIBUTING COMPANY, Baltimore, Md. Filed Mar. 23, 1928. Under 10-year proviso.

Sherwood
WHISKEY
The Sherwood Distilling & Distributing Co.
BALTIMORE, MD.

Applicant claims ownership of Certificates 92,272 and 92,273, both issued June 24, 1913.
For Whiskey.
Claims use since 1869.

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## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 270,855. NATIONAL ROAD MARKER, INC., Chicago, Ill. Filed Aug. 10, 1928.




Applicant disclaims the right to the exclusive use of the word "Stop" and the representation of the road marker shown on the drawing apart from the mark shown in the drawing.
For Road Markers.
Claims use since Jan. 1, 1927.

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Ser. No. 271,759. JATON MANUFACTURING CORPORATION, Brooklyn, N. Y. Filed Aug. 30, 1928.

**"ALUMILITE"**

For Impregnated Fabrics.
Claims use since Jan. 8, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 6, 1928.

248,895. SCREWS. KEELER BRASS COMPANY, Grand Rapids, Mich.
Filed July 14, 1928. Serial No. 269,588. PUBLISHED AUGUST 28, 1928. Class 13.

248,896. IRONING MACHINES. WONDER IRONER MANUFACTURING CORPORATION, Cleveland, Ohio.
Filed July 12, 1928. Serial No. 269,541. PUBLISHED AUGUST 28, 1928. Class 24.

248,897. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed July 12, 1928. Serial No. 269,540. PUBLISHED AUGUST 21, 1928. Class 22.

248,898. PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed July 13, 1928. Serial No. 269,506. PUBLISHED AUGUST 28, 1928. Class 42.

248,899. STOMACH BITTERS. HERBERT A. CLEMENS, doing business as Clemens Chemical Company, Fort Wayne, Ind.
Filed July 11, 1928. Serial No. 269,892. PUBLISHED AUGUST 28, 1928. Class 6.

248,900. CANDY. MARION C. BRUNER, doing business as Powder Puff Candy Co., Los Angeles, Calif.
Filed July 11, 1928. Serial No. 269,888. PUBLISHED AUGUST 21, 1928. Class 46.

248,901. GREEN COFFEE. J. ARON & COMPANY, INC., New Orleans, La.
Filed July 11, 1928. Serial No. 269,385. PUBLISHED AUGUST 21, 1928. Class 46.

248,902. GREEN COFFEE. J. ARON & COMPANY, INC., New Orleans, La.
Filed July 11, 1928. Serial No. 269,884. PUBLISHED AUGUST 21, 1928. Class 46.

248,903. CANDY. REICHARDT COCOA & CHOCOLATE CO. INC., also doing business as Reichardt, New Brunswick, N. J.
Filed July 10, 1928. Serial No. 269,866. PUBLISHED AUGUST 21, 1928. Class 46.

248,904. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SIRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. NORTHWESTERN EXTRACT CO., Milwaukee, Wis.
Filed July 10, 1928. Serial No. 269,362. PUBLISHED AUGUST 21, 1928. Class 45.

248,905. TONIC FOR IMPROVING THE CONDITION OF THE HAIR OF HUMAN BODIES. NORMAN C. DRAKE, doing business as Dr. Timm's Medicine Co., Rockville Center, N. Y.
Filed July 10, 1928. Serial No. 269,847. PUBLISHED AUGUST 28, 1928. Class 6.

248,906. WARDROBE TRUNKS, LEATHER AND ARTIFICIAL-LEATHER HATBOXES, WARDROBE HATBOXES, WARDROBE SUITCASES AND CARRYING CASES, AND TRUNKS. W. W. WINSHIP & SONS, INC., Utica, N. Y.
Filed July 9, 1928. Serial No. 269,342. PUBLISHED AUGUST 21, 1928. Class 3.

248,907. BREAD. WHITE HALL BAKING COMPANY, Flint and Detroit, Mich.
Filed July 9, 1928. Serial No. 269,841. PUBLISHED AUGUST 21, 1928. Class 46.

248,908. BUTTER. TIP TOP CREAMERY CO., Vincennes, Ind.
Filed July 9, 1928. Serial No. 269,333. PUBLISHED AUGUST 21, 1928. Class 46.

248,909. SHOTGUNS AND RIFLES. SLOAN'S SPORTING GOODS CO. INC., New York, N. Y.
Filed July 9, 1928. Serial No. 269,327. PUBLISHED AUGUST 28, 1928. Class 3.

248,910. GOLF BALLS, GOLF CLUBS, AND GOLF BAGS. THE SHIELD CO. INC., Fort Worth, Tex.
Filed July 9, 1928. Serial No. 269,325. PUBLISHED AUGUST 21, 1928. Class 22.

248,911. PREPARATION USED IN THE TREATMENT OF TUBERCULOSIS AND BRONCHIAL AILMENTS. ISLAM SHABAN, Mansfield, Ohio.
Filed July 9, 1928. Serial No. 269,324. PUBLISHED AUGUST 21, 1928. Class 6.

248,912. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. PAUL BURKE JACOBS, doing business as Jaynard Clé., New York, N. Y.
Filed July 9, 1928. Serial No. 269,292. PUBLISHED AUGUST 28, 1928. Class 6.

248,913. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, BATH POWDER, COLOGNES, FACE CREAMS, LOTIONS, AND ROUGES. ISABEY-PARIS, INC., Wilmington, Del., and New York, N. Y.
Filed July 9, 1928. Serial No. 269,291. PUBLISHED AUGUST 28, 1928. Class 6.

248,914. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, BATH POWDER, COLOGNES, FACE CREAMS, LOTIONS, AND ROUGES. ISABEY-PARIS, INC., Wilmington, Del., and New York, N. Y.
Filed July 9, 1928. Serial No. 269,290. PUBLISHED AUGUST 28, 1928. Class 6.

248,915. CHEMICAL COMPOUND FOR USE IN CONCRETE TO PRODUCE A QUICK-SETTING CONCRETE IMPERVIOUS TO WATER. CEMROC, INC., Cincinnati, Ohio.
Filed April 23, 1928. Serial No. 265,258. PUBLISHED AUGUST 21, 1928. Class 6.

248,916. CHILDREN'S AND MISSES' HATS. ISADOR KRONTHAL, doing business as Kronthal Manufacturing Company, Chicago, Ill.
Filed April 20, 1928. Serial No. 265,158. PUBLISHED JULY 10, 1928. Class 39.

248,917. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 5, 1928. Serial No. 266,006. PUBLISHED JULY 10, 1928. Class 39.

248,918. SHOES WHICH ARE CONSTRUCTED OF LEATHER, RUBBER, OR OF A COMBINATION OF THESE MATERIALS. LOUIS LOWY, New York, N. Y.
Filed April 19, 1928. Serial No. 265,110. PUBLISHED JULY 24, 1928. Class 39.

248,919. BALL BEARINGS. STANDARD STEEL AND BEARINGS INCORPORATED, Plainville, Conn.
Filed February 29, 1928. Serial No. 262,423. PUBLISHED AUGUST 28, 1928. Class 23.

248,920. AUTOMOBILE TOP DRESSING. FRANCIS T. MUTSCHLER, Sunbury, Pa..
Filed February 28, 1928. Serial No. 262,374. PUBLISHED AUGUST 21, 1928. Class 4.

248,921. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. LIGHTFOOT SCHULTZ COMPANY, Hoboken, N. J., and New York, N. Y.
Filed February 28, 1928. Serial No. 262,365. PUBLISHED APRIL 24, 1928. Class 6.

248,922. HEAT-TREATED FERROUS METALS. LINK-BELT COMPANY, Chicago, Ill.
Filed February 25, 1928. Serial No. 262,232. PUBLISHED AUGUST 21, 1928. Class 14.

248,923. GRAVY. WILLIAM F. LINDORFF, doing business as Lindorff Manufacturing Company, Flushing, N. Y.
Filed February 20, 1928. Serial No. 261,968. PUBLISHED AUGUST 21, 1928. Class 46.

248,924. MEDICINE USED IN THE TREATMENT OF CANCER AND OTHER SKIN DISEASES. JOSEPH LOEB, Bayonne, N. J.
Filed February 17, 1928. Serial No. 261,822. PUBLISHED AUGUST 14, 1928. Class 6.

248,925. BASKET-BALL SHOES MADE OF RUBBER AND CANVAS. THE DRAPER-MAYNARD COMPANY, Plymouth, N. H.
Filed April 19, 1928. Serial No. 265,099. PUBLISHED JULY 17, 1928. Class 39.

248,926. DOLLS. GEO. BORGFELDT & Co., New York, N. Y.
Filed April 19, 1928. Serial No. 265,088. PUBLISHED AUGUST 14, 1928. Class 22.

248,927. WOMEN'S UNDERGARMENTS—NAMELY, BRASSIÈRES, CORSET-BRASSIÈRES, CORSETS, GIRDLES, AND CORSELETS. WEINGARTEN BROS., INC., New York, N. Y.
Filed April 18, 1928. Serial No. 265,078. PUBLISHED JULY 17, 1928. Class 39.

248,928. STRAW HATS FOR USE OF MEN. M. S. LEVY & SONS, INC., Baltimore, Md., and New York, N. Y.
Filed April 13, 1928. Serial No. 264,762. PUBLISHED JULY 10, 1928. Class 39.

248,929. CERTAIN NAMED WEARING APPAREL. HOOVER MFG. CO., New York, N. Y.
Filed April 12, 1928. Serial No. 264,722. PUBLISHED JULY 17, 1928. Class 39.

248,930. MEN'S UNLINED LEATHER STREET GLOVES. O. C. HANSEN MFG. CO., Milwaukee, Wis.
Filed April 11, 1928. Serial No. 264,682. PUBLISHED JULY 24, 1928. Class 39.

248,931. SOAPS INCLUDING TOILET SOAPS AND SHAVING STICKS. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed February 17, 1928. Serial No. 261,802. PUBLISHED AUGUST 21, 1928. Class 4.

248,932. PHARMACEUTICAL PREPARATION FOR DISEASES PECULIAR TO WOMEN. FELIX ALVARO DIAZ, doing business as Laboratories Filarysine, Santurce, P. R.
Filed February 14, 1928. Serial No. 261,667. PUBLISHED AUGUST 21, 1928. Class 6.

248,933. CANDY. IMPERIAL CANDY CO., Seattle, Wash.
Filed February 11, 1928. Serial No. 261,573. PUBLISHED JUNE 5, 1928. Class 46.

248,934. COFFEE AND CHICORY COMPOUND. THE GREAT ATLANTIC & PACIFIC TEA COMPANY, Jersey City, N. J.
Filed February 3, 1928. Serial No. 261,112. PUBLISHED AUGUST 21, 1928. Class 46.

248,935. POP-CORN CONFECTIONS. ORVILLE L. HAWKINS, Indianapolis, Ind.
Filed February 4, 1928. Serial No. 261,191. PUBLISHED AUGUST 21, 1928. Class 46.

248,936. CANNED FRUITS AND VEGETABLES. DAVID HUNT AND COMPANY, Oswego and Cherry Creek, N. Y.
Filed February 1, 1928. Serial No. 261,008. PUBLISHED AUGUST 21, 1928. Class 46.

248,937. CREAMERY BUTTER, ICE CREAM, CONDENSED MILK, EVAPORATED MILK, POWDERED SKIM MILK, SWEET CREAM, WHOLE MILK, CHEESE, COTTAGE CHEESE, POWDERED BUTTERMILK, SEMIDRY BUTTERMILK, BUTTERMILK, PIMENTO CHEESE, AND NEUFCHÂTEL CHEESE. MEADOLAKE MILK PRODUCTS COMPANY, Sherman, Tex.
Filed February 2, 1928. Serial No. 261,070. PUBLISHED AUGUST 21, 1928. Class 46.

248,938. PHOTOGRAPHIC-NEGATIVE-RETOUCHING TOOL. NAPOLEON DE REMONT, New York, N. Y.
Filed February 2, 1928. Serial No. 261,049. PUBLISHED AUGUST 21, 1928. Class 37.

248,939. SWEETENING COMPOUND USED AS A SUBSTITUTE FOR SUGAR. KASKO PRODUCTS COMPANY, INC., Philadelphia, Pa.
Filed March 13, 1928. Serial No. 263,090. PUBLISHED AUGUST 21, 1928. Class 46.

248,940. FRESH GRAPEFRUIT. THE ATWOOD GRAPE FRUIT COMPANY, Manavista, Fla.
Filed March 8, 1928. Serial No. 262,787. PUBLISHED JULY 3, 1928. Class 46.

248,941. FACIAL CREAMS. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,766. PUBLISHED AUGUST 14, 1928. Class 6.

248,942. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 5, 1928. Serial No. 266,005. PUBLISHED JULY 24, 1928. Class 39.

248,943. A COMBINATION CORSET GARMENT MADE BY UNITING THE HEALTH BELT, SO-CALLED, AND BRASSIÈRE. THE CHARLES H. SCOTT COMPANY, Chicago, Ill., and New York, N. Y.
Filed February 29, 1928. Serial No. 262,542. PUBLISHED JULY 17, 1928. Class 39.

248,944. METALS, ALLOYS, AND SOLDERS FOR USE IN JEWELRY. JOSEPH B. COOPER, New York, N. Y.
Filed April 5, 1928. Serial No. 264,358. PUBLISHED AUGUST 21, 1928. Class 14.

248,945. CORSETS, CORSET AND BRASSIÈRE COMBINATIONS, AND BRASSIÈRES. I. NEWMAN & SONS, INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,320. PUBLISHED JULY 17, 1928. Class 39.

248,946. WORSTED AND WOOLEN DRESS GOODS MANUFACTURED IN THE PIECE. F. A. BOCHMANN & CO., INC., Philadelphia, Pa.
Filed April 4, 1928. Serial No. 264,276. PUBLISHED AUGUST 28, 1928. Class 42.

248,947. WORSTED AND WOOLEN DRESS GOODS MANUFACTURED IN THE PIECE. F. A. BOCHMANN & CO., INC., Philadelphia, Pa.
Filed April 4, 1928. Serial No. 264,274. PUBLISHED AUGUST 28, 1928. Class 42.

248,948. PERFUMED TOILET WATERS. PINAUD INCORPORATED, New York, N. Y.
Filed April 2, 1928. Serial No. 264,192. PUBLISHED AUGUST 14, 1928. Class 6.

248,949. PERFUMED TOILET WATERS. PINAUD INCORPORATED, New York, N. Y.
Filed April 2, 1928. Serial No. 264,191. PUBLISHED AUGUST 14, 1928. Class 6.

248,950. CERTAIN NAMED WEARING APPAREL. BERNE MFG. CO., Berne, Ind.
Filed March 30, 1928. Serial No. 264,066. PUBLISHED JULY 24, 1928. Class 39.



248,951. PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, NEURALGIA, SWELLINGS, INFLAMMATION, COMMON SORE THROAT, COLD IN CHEST, TENDER FEET, SPRAINS, BRUISES, AND SIMILAR AILMENTS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed March 28, 1928. Serial No. 263,887. PUBLISHED AUGUST 28, 1928. Class 6.

248,952. CHEMICAL PRODUCT TO BE MIXED WITH WATER AND USED IN DISINFECTING AND RESTORING TO TEXTILE FABRICS THE GLOSSY FINISH AND ORIGINAL COLORING. CHEMISCHE FABRIK JACOBUS G. M. B. H., Berlin-Charlottenburg, Germany.
Filed March 28, 1928. Serial No. 263,860. PUBLISHED AUGUST 14, 1928. Class 6.

248,953. WASHABLE SUÈDE GLOVES. GOESSLING AND FERRE, INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,819. PUBLISHED JULY 17, 1928. Class 39.

248,954. LADIES' HATS. MOE BRENNER, New York, N. Y.
Filed March 28, 1928. Serial No. 263,851. PUBLISHED JULY 10, 1928. Class 39.

248,955. MAGAZINE PUBLISHED MONTHLY. THE DEAN-HICKS COMPANY, Grand Rapids, Mich.
Filed March 26, 1928. Serial No. 263,753. PUBLISHED AUGUST 21, 1928. Class 38.

248,956. CARD GAMES. SELCHOW AND RICHTER CO., Brooklyn, N. Y.
Filed March 23, 1928. Serial No. 263,671. PUBLISHED AUGUST 14, 1928. Class 22.

248,957. TABLE BALL GAMES PLAYED WITH MINIATURE BALLS AND BATS. HOME GAME COMPANY, INC., Mechanicville, N. Y.
Filed May 2, 1928. Serial No. 265,792. PUBLISHED AUGUST 21, 1928. Class 22.

248,958. COFFEE. FEDERAL TEA COMPANY, INC., Baltimore, Md.
Filed May 1, 1928. Serial No. 265,722. PUBLISHED AUGUST 7, 1928. Class 46.

248,959. WOMEN'S WELT LEATHER SHOES. STYLES SHOE CO., INC., Lynn, Mass.
Filed April 28, 1928. Serial No. 265,585. PUBLISHED JULY 10, 1928. Class 39.

248,960. LEATHER BOOTS AND SHOES. B. ROSENBERG & SONS, INC., New Orleans, La.
Filed April 28, 1928. Serial No. 265,569. PUBLISHED JULY 10, 1928. Class 39.

248,961. RUBBER SOLES AND HEELS AND RUBBER FOOTWEAR CONSISTING OF TENNIS OR OTHER ATHLETIC SHOES, ARCTICS, OVERSHOES OR RUBBERS, AND BOOTS. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed April 25, 1828. Serial No. 265,871. PUBLISHED JULY 17, 1928. Class 39.

248,962. CHEMICAL COMPOUND FOR USE IN MORTAR TO PRODUCE A QUICK-SETTING CONCRETE IMPERVIOUS TO WATER. CEMROC, INC., Cincinnati, Ohio.
Filed April 23, 1928. Serial No. 265,259. PUBLISHED AUGUST 21, 1928. Class 6.

248,963. WHEAT BREAKFAST FOOD. CREAM OF WHEAT COMPANY, Minneapolis, Minn.
Filed June 21, 1928. Serial No. 268,427. PUBLISHED AUGUST 21, 1928. Class 46.

248,964. CANDY. THE HONEY CANDY COMPANY OF AMERICA, Youngstown, Ohio.
Filed June 20, 1928. Serial No. 268,374. PUBLISHED AUGUST 21, 1928. Class 46.

248,965. TREE BANDS BEARING INSECTICIDAL MATERIAL. WILLIAM E. GROVE, Chambersburg, Pa.
Filed June 20, 1928. Serial No. 268,369. PUBLISHED AUGUST 14, 1928. Class 6.

248,966. SPECIAL PRUNE CONFECTION. MRS. JOHNDINE GABRIELSEN, San Jose, Calif.
Filed June 20, 1928. Serial No. 268,366. PUBLISHED AUGUST 28, 1928. Class 46.

248,967. HERB TEAS AND LAXATIVE PREPARATIONS. THE WEBBER MEDICAL TEA COMPANY, Brooklyn, N. Y.
Filed June 19, 1928. Serial No. 268,331. PUBLISHED AUGUST 28, 1928. Class 6.

248,968. TEXTBOOKS, PRINTED RADIO INSTRUCTION COURSES, RADIO WORK SHEETS, RADIO SERVICE SHEETS, AND RADIO JOB SHEETS. NATIONAL RADIO INSTITUTE, Washington, D. C.
Filed June 19, 1928. Serial No. 268,302. PUBLISHED AUGUST 21, 1928. Class 38.

248,969. SPREADERS FOR COMBINATION WITH INSECTICIDES. HERCULES GLUE COMPANY, San Francisco, Calif.
Filed June 19, 1928. Serial No. 268,280. PUBLISHED AUGUST 28, 1928. Class 6.

248,970. FRESH DECIDUOUS FRUITS—NAMELY, PEACHES, PLUMS, AND CHERRIES; FRESH GRAPES, AND FRESH FIGS. CHARLES GLAZE, Exeter, Calif.
Filed June 19, 1928. Serial No. 268,275. PUBLISHED AUGUST 21, 1928. Class 46.

248,971. MONTHLY BULLETIN. HORWATH & HORWATH, New York, N. Y.
Filed June 18, 1928. Serial No. 268,227. PUBLISHED AUGUST 21, 1928. Class 38.

248,972. SOAP. NELL OLIVER, Portland, Oreg.
Filed June 16, 1928. Serial No. 268,167. PUBLISHED AUGUST 21, 1928. Class 4.

248,973. MEN'S, WOMEN'S, AND CHILDREN'S STRAW, PANAMA, AND FELT HATS. BRONSON BROS. AND CO., INC., New York, N. Y.
Filed May 26, 1928. Serial No. 267,032. PUBLISHED JULY 24, 1928. Class 39.

248,974. CANNED PINEAPPLE. HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii.
Filed May 25, 1928. Serial No. 266,992. PUBLISHED AUGUST 21, 1928. Class 46.

248,975. FRESH MELONS—NAMELY, CANTALOUPES AND HONEYDEW MELONS. BARKER-MILLER DISTRIBUTING COMPANY, Phoenix, Ariz.
Filed May 25, 1928. Serial No. 266,968. PUBLISHED AUGUST 28, 1928. Class 46.

248,976. MILLINERY COMPRISING WOMEN'S, MISSES', AND CHILDREN'S HATS. L. BAMBERGER & COMPANY, Newark, N. J.
Filed May 25, 1928. Serial No. 266,966. PUBLISHED JULY 17, 1928. Class 39.

248,977. PREPARATIONS FOR THE TREATMENT OF DISEASES PECULIAR TO WOMEN. S. B. LEONARDI & CO. INC., New Rochelle, N. Y.
Filed May 24, 1928. Serial No. 266,939. PUBLISHED AUGUST 14, 1928. Class 6.

248,978. AUTOMOBILE POLISH FOR "DUCO" AND LACQUERED SURFACES. P. ROSER MANUFACTURING COMPANY, INC., Richmond, Va.
Filed May 23, 1928. Serial No. 266,885. PUBLISHED AUGUST 21, 1928. Class 16.

248,979. CANDIES. CHOCOLATERIE-CONFISERIE CÉSAR SOCIÉTÉ ANONYME, Antwerp, Belgium.
Filed May 23, 1928. Serial No. 266,849. PUBLISHED AUGUST 21, 1928. Class 46.

248,980. CHROMIUM-COATED SHEETS AND CHROMIUM-COATED ROLLS OF SHEET METAL. AMERICAN NICKELOID COMPANY, Peru, Ill.
Filed May 23, 1928. Serial No. 266,846. PUBLISHED AUGUST 14, 1928. Class 14.

248,981. LETTERHEADS. THE TILE & MANTEL CONTRACTORS' ASSOCIATION OF AMERICA, Wilmington, Del.
Filed May 22, 1928. Serial No. 266,843. PUBLISHED AUGUST 21, 1928. Class 37.

248,982. DISINFECTANT AND ANTISEPTIC, FOR A COMPOUND OF WET CRYSTALS TO BE USED FOR THE CONTROL OF BLACKHEAD IN TURKEYS, AND FOR A COMPOUND CONTROLLING OTHER POULTRY DISEASES AND INTERNAL PARASITES. GEORGE A. JEFFREYS, doing business as Jeffreys Laboratories, Calcium, N. Y.
Filed May 22, 1928. Serial No. 266,817. PUBLISHED AUGUST 14, 1928. Class 6.

248,983. DURABLE SPECIALLY-TREATED WATERPROOF PAPER MULCH THAT ACHIEVES THE SCIENTIFIC APPLICATION OF HEAT AND MOISTURE AND USED FOR CULTIVATING PURPOSES. UNITED PAPER COMPANY, East Braintree, Mass.
Filed May 21, 1928. Serial No. 266,769. PUBLISHED AUGUST 28, 1928. Class 37.

248,984. NOSE AND THROAT SPRAY. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed May 21, 1928. Serial No. 266,764. PUBLISHED AUGUST 28, 1928. Class 6.

248,985. MEDICINE FOR USE IN THE TREATMENT OF THE BLOOD, NERVES, KIDNEYS, LIVER, BILIOUSNESS, SICK HEADACHE, STOMACH TROUBLES, GOUT, CONSTIPATION, RHEUMATISM, GRIP, COLDS, AND INDIGESTION. JOE PINTO, doing business as Indian Herb Medicine Co., Gary, Ind.
Filed May 21, 1928. Serial No. 266,746. PUBLISHED AUGUST 14, 1928. Class 6.

248,986. SOLID CARBON DIOXIDE. THE SOLID CARBONIC COMPANY, LTD., New York, N. Y.
Filed May 19, 1928. Serial No. 266,688. PUBLISHED AUGUST 21, 1928. Class 6.

248,987. BASEBALLS, BOXING GLOVES, CHEST PROTECTORS, AND MASKS. KEN-WEL SPORTING GOODS CO., INC., New Hartford, N. Y.
Filed May 18, 1928. Serial No. 266,596. PUBLISHED AUGUST 21, 1928. Class 22.

248,988. SALT, BAKING POWDER, AND SAL SODA. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed May 18, 1928. Serial No. 266,595. PUBLISHED AUGUST 28, 1928. Class 6.

248,989. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 5, 1928. Serial No. 266,004. PUBLISHED JULY 10, 1928. Class 39.

248,990. GARTERS. CHARLES H. SUCKEL, doing business as C. H. S. Garter Company, New York, N. Y.
Filed May 5, 1928. Serial No. 265,995. PUBLISHED JULY 24, 1928. Class 39.

248,991. LIQUID COMPOUND FOR THE TREATMENT OF RHEUMATISM OF THE JOINTS AND MUSCLES, GOUT, NEURALGIA, AND PAINS OF A RHEUMATIC NATURE, A NONFLUID MINERAL MIXTURE TO BE USED AS A GENERAL TONIC FOR HOGS AND TO ELIMINATE KIDNEY AND INTESTINAL WORMS AND TO TONE UP THE LIVER, NONFLUID COMPOUND FOR TREATMENT OF POULTRY, ACTING AS A TONIC AND AS A TREATMENT FOR WHITE DIARRHŒA, CHICKEN CHOLERA, AND LIMBER NECK. WADE S. HERNDON, Wilbanks, N. C.
Filed May 5, 1928. Serial No. 265,963. PUBLISHED AUGUST 28, 1928. Class 6.

248,992. HAIR TONIC AND A LIQUID PREPARATION FOR PRESERVING AND RESTORING THE BEAUTY OF THE HAIR. Z. H. FENTON, doing business as Ro-Zell's Laboratories, Des Moines, Iowa.
Filed May 5, 1928. Serial No. 265,959. PUBLISHED AUGUST 14, 1928. Class 6.

248,993. TOBACCO CANVAS—NAMELY, AN UNMEDICATED COTTON GAUZE IN THE PIECE. CARTER DRY GOODS COMPANY, INC., Louisville, Ky.
Filed May 4, 1928. Serial No. 265,887. PUBLISHED AUGUST 28, 1928. Class 42.

248,994. TOBACCO CANVAS—NAMELY, AN UNMEDICATED COTTON GAUZE IN THE PIECE. CARTER DRY GOODS COMPANY, INC., Louisville, Ky.
Filed May 4, 1928. Serial No. 265,885. PUBLISHED AUGUST 28, 1928. Class 42.

248,995. TOBACCO CANVAS—NAMELY, AN UNMEDICATED COTTON GAUZE IN THE PIECE. CARTER DRY GOODS COMPANY, INC., Louisville, Ky.
Filed May 4, 1928. Serial No. 265,886. PUBLISHED AUGUST 28, 1928. Class 42.

248,996. GIRLS' AND BOYS' MIDDIES, SAILOR SUITS, REEFERS, TOPCOATS, HATS, AND RAINCOATS. BEST & CO., INC., New York, N. Y.
Filed May 4, 1928. Serial No. 265,882. PUBLISHED JULY 24, 1928. Class 39.

248,997. EGGS AND BUTTER. CROMPOND FARM, INC., Yorktown Heights, N. Y.
Filed May 3, 1928. Serial No. 265,831. PUBLISHED AUGUST 21, 1928. Class 46.

248,998. WOMEN'S, MISSES', AND CHILDREN'S SHOES OF LEATHER OR FABRIC OR OF LEATHER AND FABRIC. OPPENHEIM, COLLINS & CO., INC., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J.; Philadelphia and Pittsburgh, Pa.; and Cleveland, Ohio.
Filed May 2, 1928. Serial No. 265,802. PUBLISHED JULY 10, 1928. Class 39.

248,999. PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, NEURALGIA, SWELLINGS, INFLAMMATION, COMMON SORE THROAT, COLD IN CHEST, TENDER FEET, SPRAINS, BRUISES, AND SIMILAR AILMENTS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed March 20, 1926. Serial No. 263,510. PUBLISHED AUGUST 28, 1928. Class 6.

249,000. WOMEN'S AND GIRLS' HOSIERY MADE OF KNITTED OR NETTED MATERIAL. I. MILLER AND SONS, INCORPORATED, Long Island City, N. Y.
Filed March 16, 1928. Serial No. 263,277. PUBLISHED JULY 17, 1928. Class 39.

249,001. BLANKETS MADE OF TEXTILE FABRICS. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed September 19, 1927. Serial No. 254,900. PUBLISHED AUGUST 7, 1928. Class 42.

249,002. WHOLE-WHEAT FLOUR. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y., and Kansas City, Mo.
Filed May 26, 1928. Serial No. 267,088. PUBLISHED AUGUST 21, 1928. Class 46.

249,003. CLEANER FOR AUTOMOBILE BODIES, PAINTED, VARNISHED, AND OTHER SURFACES. PERMANIZING STATIONS OF AMERICA, INC., Denver, Colo.
Filed May 26, 1928. Serial No. 267,077. PUBLISHED AUGUST 21, 1928. Class 4.

249,004. FACE POWDER, DUSTING POWDER, PERFUME, AND FACE TISSUES OF PAPER FOR CLEANSING THE SKIN. MARIE EARLE, INC., New York, N. Y.
Filed May 26, 1928. Serial No. 267,069. PUBLISHED AUGUST 14, 1928. Class 6.

249,005. LADIES' HATS. KANRICH & FEINER, New York, N. Y.
Filed May 26, 1928. Serial No. 267,059. PUBLISHED JULY 17, 1928. Class 39.

249,006. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,897. PUBLISHED AUGUST 28, 1928. Class 37.



249,007. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,896. PUBLISHED AUGUST 21, 1928. Class 37.

249,008. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,898. PUBLISHED AUGUST 28, 1928. Class 37.

249,009. OATS IN ITS NATURAL STATE. NORRIS GRAIN COMPANY, Chicago, Ill.
Filed October 10, 1927. Serial No. 255,862. PUBLISHED AUGUST 28, 1928. Class 46.

249,010. WOVEN COTTON FABRICS IN THE PIECE. CRAFTWOVEN FABRICS, INC., Taunton, Mass.
Filed October 5, 1927. Serial No. 255,640. PUBLISHED AUGUST 28, 1928. Class 42.

249,011. FRESH DECIDUOUS FRUITS. PARLIER FRUIT GROWERS ASSOCIATION, Parlier, Calif.
Filed July 3, 1928. Serial No. 269,055. PUBLISHED AUGUST 21, 1928. Class 46.

249,012. CRYSTALLIZED GRAPEFRUIT. ELEANOR B. SEMMES, Washington, D. C.
Filed July 3, 1928. Serial No. 269,089. PUBLISHED AUGUST 21, 1928. Class 46.

249,013. PREPARED FLOUR FOR BISCUITS AND SHORTCAKE. FLAKO PRODUCTS CORPORATION, New Brunswick, N. J.
Filed July 3, 1928. Serial No. 269,018. PUBLISHED AUGUST 21, 1928. Class 46.

249,014. MONTHLY MAGAZINE. THE CROWELL PUBLISHING COMPANY, New York, N. Y.
Filed July 2, 1928. Serial No. 268,972. PUBLISHED AUGUST 21, 1928. Class 38.

249,015. OPHTHALMIC LENSES. BAUSCH & LOMB OPTICAL COMPANY, Rochester, N. Y.
Filed July 2, 1928. Serial No. 268,960. PUBLISHED AUGUST 28, 1928. Class 26.

249,016. INSECTICIDE, MORE PARTICULARLY BEDBUG DESTROYER. PEOPLES DRUG STORES, INC., Washington, D. C.
Filed June 30, 1928. Serial No. 268,935. PUBLISHED AUGUST 28, 1928. Class 6.

249,017. ASSORTED BONBONS AND CHOCOLATES. S. H. KRESS & CO., New York, N. Y.
Filed June 30, 1928. Serial No. 268,929. PUBLISHED AUGUST 28, 1928. Class 46.

249,018. BREAD. GORDON BAKING COMPANY, Detroit, Mich.
Filed June 30, 1928. Serial No. 268,923. PUBLISHED AUGUST 21, 1928. Class 46.

249,019. CANDY. IRVIN FUERST, New York, N. Y., assignor to Verlaine, Inc., New York, N. Y., a Corporation of New York.
Filed June 30, 1928. Serial No. 268,921. PUBLISHED AUGUST 28, 1928. Class 46.

249,020. HOUSEHOLD AND COMMERCIAL REFRIGERATING MACHINES. EXCELSIOR MOTOR MFG. & SUPPLY CO., Chicago, Ill.
Filed June 30, 1928. Serial No. 268,919. PUBLISHED AUGUST 28, 1928. Class 31.

249,021. DEVICE FOR BRANDING, TATTOOING, OR OTHERWISE MARKING CATTLE, FOWLS, AND OTHER ANIMALS. THE WESTON MANUFACTURING & SUPPLY COMPANY, Denver, Colo.
Filed June 29, 1928. Serial No. 268,897. PUBLISHED AUGUST 28, 1928. Class 23.

249,022. HYDRAULIC JACKS. THE U. S. HYDRAULIC DEVELOPMENT COMPANY, Cleveland, Ohio.
Filed June 29, 1928. Serial No. 268,894. PUBLISHED AUGUST 28, 1928. Class 23.

249,023. AFTER-SHAVING LOTIONS. ROGER & GALLET, New York, N. Y.
Filed June 29, 1928. Serial No. 268,891. PUBLISHED AUGUST 28, 1928. Class 6.

249,024. AFTER-SHAVING LOTIONS. ROGER & GALLET, New York, N. Y.
Filed June 29, 1928. Serial No. 268,890. PUBLISHED AUGUST 28, 1928. Class 6.

249,025. AFTER-SHAVING LOTIONS. ROGER & GALLET, New York, N. Y.
Filed June 29, 1928. Serial No. 268,889. PUBLISHED AUGUST 28, 1928. Class 6.

249,026. PERFUMES, TOILET WATER, FACE CREAMS, FACE POWDER, AND FACE LOTIONS. KEYSTONE LABORATORIES, Memphis, Tenn.
Filed June 29, 1928. Serial No. 268,869. PUBLISHED AUGUST 28, 1928. Class 6.

249,027. ROPE. THE GRADY-TRAVERS COMPANY, New York, N. Y.
Filed June 29, 1928. Serial No. 268,864. PUBLISHED AUGUST 28, 1928. Class 7.

249,028. PERIODICAL. FELT & TARRANT MANUFACTURING COMPANY, Chicago, Ill.
Filed June 29, 1928. Serial No. 268,860. PUBLISHED AUGUST 21, 1928. Class 38.

249,029. CONCENTRATE OF THE FRESH PANCREAS GLAND, OF THE WATER-SOLUBLE CONSTITUENTS, FREED FROM CONNECTIVE TISSUE, ASSOCIATED LIPOID AND PROTEIN, AND DESIGNED FOR USE IN PANCREATIC DEFICIENCY. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed June 29, 1928. Serial No. 268,857. PUBLISHED AUGUST 28, 1928. Class 6.

249,030. WHEAT FLOUR. CITY MILLS COMPANY, Columbus, Ga.
Filed June 29, 1928. Serial No. 268,847. PUBLISHED AUGUST 21, 1928. Class 46.

249,031. LEATHER GLOVES. BACMO-POSTMAN CO., INC., New York, N. Y.
Filed May 17, 1928. Serial No. 266,509. PUBLISHED JULY 24, 1928. Class 39.

249,032. PREPARATION IN THE NATURE OF A LACQUER FOR SURFACING LINOLEUM, FELT-BASE, AND SIMILAR HARD-SURFACE FLOOR COVERINGS. ARMSTRONG CORK COMPANY, Pittsburgh, Pa.
Filed May 17, 1928. Serial No. 266,507. PUBLISHED AUGUST 28, 1928. Class 16.

249,033. CANNED VEGETABLES. NIELSEN PACKING COMPANY, doing business as Peak-O-Health Products, San Francisco, Calif.
Filed May 16, 1928. Serial No. 266,475. PUBLISHED AUGUST 21, 1928. Class 46.

249,034. USED AUTOMOBILES. RICHARD J. MURPHY, Washington, D. C.
Filed May 17, 1928. Serial No. 266,550. PUBLISHED AUGUST 28, 1928. Class 19.

249,035. PUMP SHAFTS AND POPPET VALVES FOR INTERNAL-COMBUSTION ENGINES. THOMPSON PRODUCTS, INC., Cleveland, Ohio.
Filed November 25, 1927. Serial No. 258,049. PUBLISHED AUGUST 28, 1928. Class 23.

249,036. SHOES MADE FROM LEATHER, FABRIC, RUBBER, AND RUBBER COMPOSITIONS AND COMBINATIONS OF THESE MATERIALS. SHAFT-PIERCE SHOE CO., Faribault, Minn.
Filed December 14, 1927. Serial No. 258,931. PUBLISHED JULY 17, 1928. Class 39.

249,037. GENERAL TONIC HAVING A WINE BASE. L. N. RENAULT & SONS, INC., Egg Harbor City, N. J.
Filed December 20, 1927. Serial No. 259,183. PUBLISHED AUGUST 28, 1928. Class 6.

249,038. AUTOMOBILE HEATERS HEATED BY HOT GASES FROM THE ENGINE. THE KUNKEL MANUFACTURING COMPANY, Hart, Mich.
Filed January 5, 1928. Serial No. 259,733. PUBLISHED AUGUST 28, 1928. Class 19.

249,039. NEGLIGEE AND DRESS SHIRTS, BLOUSES, AND PAJAMAS FOR MEN, YOUTHS, AND BOYS. S. LIEBOVITZ & SONS, INC., New York, N. Y.
Filed January 5, 1928. Serial No. 259,736. PUBLISHED MAY 1, 1928. Class 39.

249,040. PHOTOGRAPHIC CAMERAS. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York.
Filed January 19, 1928. Serial No. 260,308. PUBLISHED AUGUST 28, 1928. Class 26.

249,041. CHILDREN'S HATS AND CAPS. GOOD VALUE HAT & CAP CO., INC., New York, N. Y.
Filed May 16, 1928. Serial No. 266,462. PUBLISHED JULY 17, 1928. Class 39.

249,042. CANDY. BARAGER-WEBSTER COMPANY, Eau Claire, Wis.
Filed May 16, 1928. Serial No. 266,454. PUBLISHED AUGUST 21, 1928. Class 46.

249,043. INSECTICIDE AND INSECT REPELLENT. REX RESEARCH CORPORATION, Toledo, Ohio.
Filed May 15, 1928. Serial No. 266,441. PUBLISHED AUGUST 21, 1928. Class 6.

249,044. SOLES AND HEELS FOR BOOTS AND SHOES. PHILLIPS PATENTS LIMITED, London, England.
Filed May 14, 1928. Serial No. 266,399. PUBLISHED JULY 17, 1928. Class 39.

249,045. GAS AND OIL WATER HEATERS. THE HOTSTREAM HEATER COMPANY, Cleveland, Ohio.
Filed May 14, 1928. Serial No. 266,374. PUBLISHED AUGUST 28, 1928. Class 34.

249,046. HAIRDRESSING CALLED SLEEK LOX. LOUIS FRANKS, doing business as Veleur Toilet Requisites Co., Berkeley, Calif.
Filed May 14, 1928. Serial No. 266,367. PUBLISHED AUGUST 14, 1928. Class 6.

249,047. MACHINES FOR WASHING GARMENTS AND FABRICS, WRINGING AND MANGLING MACHINES, AND GARMENT-PRESSING MACHINES. ISAAC BRAITHWAITE & SON, ENGINEERS, LIMITED, Kendal, England.
Filed May 14, 1928. Serial No. 266,353. PUBLISHED AUGUST 28, 1928. Class 24.

249,048. CERTAIN NAMED WEARING APPAREL. ALDERWOOD KNITTING MILLS, Portland, Oreg.
Filed May 14, 1928. Serial No. 266,344. PUBLISHED JULY 24, 1928. Class 39.

249,049. PHARMACEUTICAL PREPARATION INDICATED IN THE TREATMENT OF ANÆMIA, CONVALESCENCE, CACHETIC STATES, CHLOROSIS, ATONY, ENERVATION, AND NEURASTHENIA. MIGUEL J. HERNANDEZ, doing business as Meliere Laboratories, New York, N. Y.
Filed May 12, 1928. Serial No. 266,319. PUBLISHED AUGUST 21, 1928. Class 6.

249,050. LEDGER PAPER, BOND PAPER, WRITING PAPER, MAP PAPER, AND BRISTOL BOARD. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed May 12, 1928. Serial No. 266,297. PUBLISHED AUGUST 21, 1928. Class 37.

249,051. AUTOMOBILE BODY HARDWARE—NAMELY, CHANNELS AND SHAPES AND DIE CASTINGS. TERNSTEDT MANUFACTURING COMPANY, Detroit, Mich.
Filed May 11, 1928. Serial No. 266,283. PUBLISHED AUGUST 21, 1928. Class 14.

249,052. PARAGUAYAN TEA (YERBA MATE). E. MACKINNON & CORLHO, Buenos Aires, Argentina.
Filed May 11, 1928. Serial No. 266,254. PUBLISHED AUGUST 21, 1928. Class 46.

249,053. CLOTH CAPS AS HEADWEAR FOR MEN AND BOYS. JULIUS H. FUNK COMPANY, Atlanta, Ga.
Filed May 8, 1928. Serial No. 266,083. PUBLISHED JULY 24, 1928. Class 39.

249,054. MEN'S AND BOYS' CAPS AND HATS. GORDON BROS. CAP CO., INC., Chicago, Ill.
Filed May 11, 1928. Serial No. 266,243. PUBLISHED JULY 24, 1928. Class 39.

249,055. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 5, 1928. Serial No. 266,008. PUBLISHED JULY 24, 1928. Class 39.

249,056. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SHOES, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER, RUBBER, CANVAS, OR TEXTILE MATERIAL. WOODBURY SHOE MFG. CO., Derry, N. H.
Filed May 5, 1928. Serial No. 266,007. PUBLISHED JULY 24, 1928. Class 39.

249,057. MEN'S, WOMEN'S, AND CHILDREN'S FABRIC, LEATHER, AND FELT HIGH AND LOW SHOES. HAMILTON, BROWN SHOE COMPANY, St. Louis, Mo.
Filed November 14, 1927. Serial No. 257,541. PUBLISHED JULY 17, 1928. Class 39.

249,058. SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. STERLING SHOES CORPORATION, Buffalo, N. Y.
Filed November 12, 1927. Serial No. 257,487. PUBLISHED JULY 17, 1928. Class 39.

249,059. CANNED FOOD FOR DOGS, CATS, AND WILD CARNIVORA. HUGO STRAUSS PACKING CO., INC., Brooklyn, N. Y.
Filed November 11, 1927. Serial No. 257,418. PUBLISHED AUGUST 21, 1928. Class 46.

249,060. EMBROIDERED PIECE GOODS AS USED IN BEDSPREADS, SCARFS, AND DRAPERIES FOR FURNITURE. ATLAS EMBROIDERY COMPANY, West New York, N. J.
Filed November 10, 1927. Serial No. 257,334. PUBLISHED AUGUST 28, 1928. Class 42.

249,061. CHINA. HEINRICH & WINTERLING INC., New York, N. Y.
Filed November 4, 1927. Serial No. 257,065. PUBLISHED AUGUST 28, 1928. Class 30.

249,062. CEREAL BREAKFAST FOOD THE MAIN CONSTITUENT OF WHICH IS BUCKWHEAT. HERMAN ROSENBERG, Philadelphia, Pa.
Filed October 28, 1927. Serial No. 256,746. PUBLISHED AUGUST 28, 1928. Class 46.

249,063. FRESH CITRUS FRUITS—NAMELY, ORANGES. DUARTE FOOTHILL CITRUS ASSOCIATION, Duarte, Calif.
Filed October 22, 1927. Serial No. 256,457. PUBLISHED AUGUST 28, 1928. Class 46.

249,064. SOFT PROTECTIVE WRAPPING AND PACKING PAPER, SOFT LINING PAPER, ABSORBENT WRAPPING PAPER, ANTITARNISH WRAPPING PAPER, AND PAPER FOR CUSHIONS AND PADS. THE ROCHESTER FOLDING BOX CO., Rochester, N. Y.
Filed October 19, 1927. Serial No. 256,309. PUBLISHED AUGUST 21, 1928. Class 37.

249,065. UROCLASIO, A MEDICINAL PREPARATION FOR ALL KINDS OF URICEMICS. S. A. R. M. SOCIETÀ ANONIMA RITROVATI MEDICINALI, Rome, Italy.
Filed October 12, 1927. Serial No. 256,014. PUBLISHED AUGUST 28, 1928. Class 6.

249,066. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,903. PUBLISHED AUGUST 28, 1928. Class 37.

249,067. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,902. PUBLISHED AUGUST 28, 1928. Class 37.



249,068. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,901. PUBLISHED AUGUST 28, 1928. Class 37.

249,069. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,900. PUBLISHED AUGUST 28, 1928. Class 37.

249,070. WRAPPING PAPER IN SHEETS AND ROLLS. JOSEPH P. COLLINS, St. Louis, Mo.
Filed October 11, 1927. Serial No. 255,899. PUBLISHED AUGUST 28, 1928. Class 37.

249,071. GAS, OIL, AND VAPOR HOT-WATER STORAGE AND HEATING TANKS AND THOSE ADAPTED FOR HEATING BY THERMOSIPHON OR COILS; GAS, OIL, AND VAPOR WATER HEATERS AND THERMOSTATIC VALVES FURNISHED AS PARTS OF HEATING DEVICES. THE CLEVELAND HEATER COMPANY, Cleveland, Ohio.
Filed June 4, 1928. Serial No. 267,406. PUBLISHED AUGUST 28, 1928. Class 34.

249,072. CARBON BLACK. UNITED CARBON COMPANY, Charleston, W. Va.
Filed June 2, 1928. Serial No. 267,399. PUBLISHED AUGUST 21, 1928. Class 16.

249,073. ICE-CREAM CONES. OLIVER TWIST WAFER CO. INC., Long Island City, N. Y.
Filed June 2, 1928. Serial No. 267,384. PUBLISHED AUGUST 21, 1928. Class 46.

249,074. SHOES MADE OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. DR. A. POSNER SHOES, INC., New York, N. Y.
Filed June 2, 1928. Serial No. 267,886. PUBLISHED JULY 24, 1928. Class 39.

249,075. LADIES' DRESSES, HATS, COATS, SUITS. MCGREEVEY, WERRING & HOWELL, INC., New York, N. Y.
Filed June 2, 1928. Serial No. 267,870. PUBLISHED JULY 24, 1928. Class 39.

249,076. WELTING FOR BOOTS AND SHOES. PERLEY E. BARBOUR, doing business as Barbour Welting Company, Montello Station, Brockton, Mass.
Filed June 2, 1928. Serial No. 267,834. PUBLISHED JULY 24, 1928. Class 39.

249,077. HANDKERCHIEFS. THE ACHESON HARDEN CO., New York, N. Y.
Filed June 2, 1928. Serial No. 267,830. PUBLISHED AUGUST 14, 1928. Class 42.

249,078. PIANO, FURNITURE, FLOOR, AND AUTOMOBILE POLISH. EMMA B. OLD, doing business as Old's Manufacturing Company, Kansas City, Mo.
Filed May 14, 1928. Serial No. 267,176. PUBLISHED AUGUST 21, 1928. Class 16.

249,079. NONALCOHOLIC, CEREAL, MALT BEVERAGES. THE WEST END BREWING CO., Utica, N. Y.
Filed May 28, 1928. Serial No. 267,170. PUBLISHED AUGUST 28, 1928. Class 48.

249,080. WRITING PAPER, MAILING ENVELOPES, ETC. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,155. PUBLISHED AUGUST 28, 1928. Class 37.

249,081. LIQUEFIED INDUSTRIAL GASES. PHILFUELS COMPANY, Bartlesville, Okla.
Filed May 28, 1928. Serial No. 267,144. PUBLISHED AUGUST 14, 1928. Class 6.

249,082. CONCENTRATED NATURAL GAS. PHILFUELS COMPANY, Bartlesville, Okla.
Filed May 28, 1928. Serial No. 267,143. PUBLISHED AUGUST 21, 1928. Class 6.

249,083. BELTS IN THE NATURE OF GARMENT SUPPORTERS. THE MAY DEPARTMENT STORES COMPANY, St. Louis, Mo.
Filed May 28, 1928. Serial No. 267,138. PUBLISHED JULY 24, 1928. Class 39.

249,084. CERTAIN NAMED WOMEN'S AND MISSES' HATS. P. H. LUTHER, Los Angeles, Calif.
Filed May 28, 1928. Serial No. 267,134. PUBLISHED JULY 17, 1928. Class 39.

249,085. GOLF CLUBS. BENJAMIN O. LANTZ, Oak Park, Ill.
Filed May 28, 1928. Serial No. 267,131. PUBLISHED AUGUST 14, 1928. Class 22.

249,086. TABLE GLASSWARE. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,096. PUBLISHED AUGUST 21, 1928. Class 33.

249,087. CUTTERS WITH REPLACEABLE BLADES—NAMELY, OFFICE KNIVES, CHISEL KNIVES, TWINE CUTTERS, AND PILE CUTTERS—AND BLADES FOR ALL OF SAID CUTTERS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed June 25, 1928. Serial No. 268,600. PUBLISHED AUGUST 28, 1928. Class 23.

249,088. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed June 25, 1928. Serial No. 268,590. PUBLISHED AUGUST 21, 1928. Class 46.

249,089. COTTON PIECE GOODS. ROBINSON & GOLLUBER, New York, N. Y.
Filed June 23, 1928. Serial No. 268,562. PUBLISHED AUGUST 21, 1928. Class 42.

249,090. LIFE PRESERVERS, LIFE-PRESERVER CUSHIONS AND RING BUOYS APPLICABLE FOR LIFE-SAVING AT SEA. ATLANTIC-PACIFIC MFG. CORPN., Brooklyn, N. Y.
Filed June 23, 1928. Serial No. 268,528. PUBLISHED AUGUST 21, 1928. Class 22.

249,091. BRILLIANTINE AND DRESSINGS FOR THE HAIR. J. SCHANZENBACH & CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,515. PUBLISHED AUGUST 28, 1928. Class 6.

249,092. MALT SYRUP FOR FOOD PURPOSES. A. M. RALEY, doing business as Raley Coffee Co., Evansville, Ind.
Filed June 22, 1928. Serial No. 268,511. PUBLISHED AUGUST 21, 1928. Class 46.

249,093. GOLF CLUBS. R. H. MACY & CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,503. PUBLISHED AUGUST 21, 1928. Class 22.

249,094. PASTE AND READY-MIXED PAINTS, VARNISHES, AND LACQUERS. DEVOE & REYNOLDS CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,490. PUBLISHED AUGUST 21, 1928. Class 16.

249,095. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed June 22, 1928. Serial No. 268,489. PUBLISHED AUGUST 28, 1928. Class 46.

249,096. CATAMENIAL NAPKINS. VELDOWN COMPANY, INC., New York, N. Y.
Filed June 21, 1928. Serial No. 268,474. PUBLISHED AUGUST 21, 1928. Class 44.

249,097. PERFUMES, TOILET VINEGAR, HAIR LOTION, MASSAGE CREAM, SKIN CREAM, BEAUTIFYING CREAM, TOILET WATER, TOOTH PASTE, LIQUID DENTIFRICE, BATH SALTS, CLEANSING CREAM, FACE POWDER, FACE LOTION, BEAUTIFYING LIQUID. ADINE SÉRÉ DE RIVIÈRES, Paris, France.
Filed June 16, 1928. Serial No. 268,130. PUBLISHED AUGUST 28, 1928. Class 6.

249,098. COSMETICS—NAMELY, FACE POWDER, ROUGE, LIP STICK, AND NAIL POLISH. MARTIN LUNEBURG, Astoria, N. Y.
Filed June 15, 1928. Serial No. 268,105. PUBLISHED AUGUST 21, 1928. Class 6.

249,099. FACE AND HAND LOTION. JULIA B. HERLIHY, Lynbrook, N. Y.
Filed June 15, 1928. Serial No. 268,097. PUBLISHED AUGUST 14, 1928. Class 6.

249,100. WEEKLY PUBLICATION CONTAINING INFORMATION FOR USE BY CONTRACTORS FOR PROPOSED CONSTRUCTION PROJECTS. DEWEY PORTLAND CEMENT COMPANY, Kansas City, Mo.
Filed June 15, 1928. Serial No. 268,086. PUBLISHED AUGUST 21, 1928. Class 38.

249,101. FILE POCKETS OR CONTAINERS FOR PAPERS. ARTHUR N. BUSHNELL, Jr., Philadelphia, Pa., assignor to Alvah Bushnell Company, Philadelphia, Pa., a Corporation of New Jersey.
Filed June 15, 1928. Serial No. 268,076. PUBLISHED AUGUST 21, 1928. Class 37.

249,102. LIFTING JACKS OF BOTH THE SCREW AND LEVER TYPE. TEMPLETON, KENLY & CO., LIMITED, Chicago, Ill.
Filed June 14, 1928. Serial No. 268,063. PUBLISHED AUGUST 28, 1928. Class 23.

249,103. DISPLAY CARDS, PRINTED ADVERTISING SIGNS, AND COUNTER CARDS. SCHMIDT LITHOGRAPH COMPANY, San Francisco, Calif.
Filed June 13, 1928. Serial No. 267,999. PUBLISHED AUGUST 21, 1928. Class 38.

249,104. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. GERRÉ, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,945. PUBLISHED AUGUST 14, 1928. Class 6.

249,105. PREPARATION FOR TREATING RHEUMATIC AND KIDNEY TROUBLE, COUGHS, AND BLOOD POISONING. WILLIAM T. MCHENRY, doing business as W. T. McHenry, Ganado, Tex.
Filed June 11, 1928. Serial No. 267,849. PUBLISHED AUGUST 21, 1928. Class 6.

249,106. BLEACHING COMPOUND. JACOP CARNESECCA, doing business as Safe Wash Bleach Co., San Jose, Calif.
Filed June 11, 1928. Serial No. 267,833. PUBLISHED AUGUST 28, 1928. Class 6.

249,107. RABBITS ALIVE, DRESSED, AND FOR FOOD PURPOSES; CANNED RABBIT MEAT, SMOKED RABBIT MEAT, DRESSED RABBIT MEAT, PICKLED RABBIT MEAT, DRIED RABBIT MEAT, RABBIT-MEAT LOAF, FRESH AND SMOKED RABBIT SAUSAGE. UNITED RABBITRIES MARKETING CORP., Duarte, Calif.
Filed June 9, 1928. Serial No. 267,815. PUBLISHED AUGUST 28, 1928. Class 46.

249,108. LINIMENT USED IN THE TREATMENT OF SORE THROAT, RHEUMATIC PAINS, FRESH CUTS, TETTER, INSECT BITES, MANGE AND SCALP, MUSCULAR PAINS, HEADACHE, NEURALGIA, COUGHS AND COLDS, ASTHMA, HAY FEVER, AND LUMBAGO. STANDARD PRODUCTS CO., Jacksonville, Fla.
Filed June 9, 1928. Serial No. 267,808. PUBLISHED AUGUST 14, 1928. Class 6.

249,109. FABRIC DYES AND GLASS FROSTING. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind.
Filed June 9, 1928. Serial No. 267,800. PUBLISHED AUGUST 28, 1928. Class 6.

249,110. GAS-PRESSURE REGULATORS. PUROX COMPANY, Denver, Colo.
Filed June 9, 1928. Serial No. 267,799. PUBLISHED AUGUST 28, 1928. Class 13.

249,111. WELDING RODS. PUROX COMPANY, Denver, Colo.
Filed June 9, 1928. Serial No. 267,797. PUBLISHED AUGUST 21, 1928. Class 14.

249,112. RUBBER HOSE FOR USE WITH WELDING AND CUTTING EQUIPMENT. PUROX COMPANY, Denver, Colo.
Filed June 9, 1928. Serial No. 267,796. PUBLISHED AUGUST 21, 1928. Class 35.

249,113. CONCENTRATE OR EXTRACTS OBTAINED FROM CITRUS FRUIT, FREE FROM INERT CELLULAR TISSUE, DESIGNED TO TAKE THE PLACE OF THE FRESH JUICE AND THE EDIBLE SUBSTANCE OF THE CITRUS FRUITS, AND FOR WHATEVER PURPOSE THEY ARE EMPLOYED, AS A PROPHYLACTIC AGAINST VITAMIN-DEFICIENCY DISORDERS. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed June 9, 1928. Serial No. 267,761. PUBLISHED AUGUST 21, 1928. Class 6.

249,114. LINIMENT USED FOR RUBBING ALL AFFECTED PARTS OF THE BODY WHERE SORENESS EXISTS. MOLLY SCHMIDT, doing business as M. Schmidt, Auburn, Me.
Filed June 8, 1928. Serial No. 267,726. PUBLISHED AUGUST 14, 1928. Class 6.

249,115. HAIR DYES AND HAIR RESTORERS. MARGUERITE TURMEL VALLIONY, doing business as Marguerite Turmel Co., New York, N. Y.
Filed June 7, 1928. Serial No. 267,676. PUBLISHED AUGUST 14, 1928. Class 6.

249,116. METAL POLISH. SIMON MANUFACTURING COMPANY, Richmond Hill, N. Y.
Filed June 7, 1928. Serial No. 267,671. PUBLISHED AUGUST 21, 1928. Class 4.

249,117. CUTTERS WITH REPLACEABLE BLADES—NAMELY, OFFICE KNIVES, CHISEL KNIVES, TWINE CUTTERS, AND PILE CUTTERS—AND BLADES FOR ALL OF SAID CUTTERS. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass.
Filed June 7, 1928. Serial No. 267,650. PUBLISHED AUGUST 28, 1928. Class 23.

249,118. MALT SYRUP AND PRETZELS. EXCELSIOR BREWERY INC., Brooklyn, N. Y.
Filed June 6, 1928. Serial No. 267,544. PUBLISHED AUGUST 21, 1928. Class 46.

249,119. STOCK FEED. RIVER PRODUCTS CO., Iowa City, Iowa.
Filed June 5, 1928. Serial No. 267,510. PUBLISHED AUGUST 28, 1928. Class 46.

249,120. EVAPORATED MILK. THE UNIVERSAL MILK COMPANY, New York, N. Y.
Filed June 4, 1928. Serial No. 267,471. PUBLISHED AUGUST 21, 1928. Class 46.

249,121. HOSIERY, CORSETS, BRASSIÈRES, AND GIRDLES. FLORENCE M. AUSPITZ, doing business as The Corset Shop, York, Pa.
Filed September 7, 1927. Serial No. 254,442. PUBLISHED JULY 10, 1928. Class 39.

249,122. FRESH DECIDUOUS FRUITS. G. H. ANDERSON ESTATE, doing business as Howard Fruit Company, San Jose, Calif.
Filed August 24, 1927. Serial No. 253,930. PUBLISHED AUGUST 28, 1928. Class 46.

249,123. CHEESE. SOCIETE ANONYME DES FROMAGERIES CH. GERVAIS, Paris, France.
Filed August 19, 1927. Serial No. 253,713. PUBLISHED AUGUST 28, 1928. Class 46.

249,124. CHEESE. SOCIETE ANONYME DES FROMAGERIES CH. GERVAIS, Paris, France.
Filed August 19, 1927. Serial No. 253,712. PUBLISHED AUGUST 28, 1928. Class 46.

249,125. WHEAT FLOUR. GLOSSEMEYER FLOUR CO., St. Louis, Mo.
Filed August 17, 1927. Serial No. 253,588. PUBLISHED NOVEMBER 1, 1927. Class 46.



249,126. COTTON TABLE COVERS AND COTTON COUNTERPANES. ATEHA ADLER TEXTILDRUCKGESELLSCHAFT HAMBURG M. B. H., Hamburg, Germany.
Filed July 28, 1927. Serial No. 252,637. PUBLISHED AUGUST 21, 1928. Class 42.

249,127. ICE CREAM. WESTERN DAIRY PRODUCTS CO., Seattle, Wash.
Filed July 19, 1927. Serial No. 252,298. PUBLISHED AUGUST 28, 1928. Class 46.

249,128. MEDICINAL PREPARATION FOR THE TREATMENT OF SYPHILIS, GONORRHEA, FISTULA, AND SKIN DISEASES. ANEST DOXAKIS, Haynesville, La.
Filed June 27, 1927. Serial No. 251,179. PUBLISHED AUGUST 14, 1928. Class 6.

249,129. SCOOTERS, KIDDIE CARS, COASTER WAGONS, AND WHEELED TOYS. JUNIOR WHEEL GOODS CORPORATION, Kokomo, Ind.
Filed June 23, 1927. Serial No. 250,997. PUBLISHED AUGUST 14, 1928. Class 22.

249,130. FRESH CITRUS FRUIT—NAMELY, ORANGES AND GRAPEFRUIT. CITRUS FRUIT ASSOCIATION OF ONTARIO, Ontario, Calif.
Filed March 3, 1927. Serial No. 245,140. PUBLISHED AUGUST 28, 1928. Class 46.

249,131. SWEETENED SKIM-MILK COCOA. BERTRAM G. EARL, doing business as B. G. Earl & Company, Chicago, Ill.
Filed February 14, 1927. Serial No. 244,349. PUBLISHED AUGUST 21, 1928. Class 46.

249,132. CANNED FRUITS AND VEGETABLES. PACIFIC COAST CANNERS, INC., Oakland, Calif.
Filed January 24, 1927. Serial No. 243,279. PUBLISHED AUGUST 28, 1928. Class 46.

249,133. SHOES COMPOSED OF LEATHER OR TEXTILE FABRIC. A. H. GEUTING COMPANY, Philadelphia, Pa.
Filed December 17, 1926. Serial No. 241,618. PUBLISHED JULY 17, 1928. Class 39.

249,134. CERTAIN NAMED WEARING APPAREL. ELFIE, INC., New York, N. Y.
Filed December 1, 1926. Serial No. 240,812. PUBLISHED JULY 24, 1928. Class 39.

249,135. VANILLA EXTRACT FOR FLAVORING FOODS. HALLOCK-DENTON CO., Newark, N. J.
Filed November 1, 1926. Serial No. 239,516. PUBLISHED AUGUST 21, 1928. Class 46.

249,136. METAL-POLISH CLEANING COMPOUND CONSISTING OF A JELLYLIKE COMPOSITION. CRYSTAL CHEMICALS, INC., Pittsburgh, Pa.
Filed May 21, 1926. Serial No. 231,983. PUBLISHED AUGUST 28, 1928. Class 4.

249,137. ANTISEPTIC, ANTIPYRETIC, DIURETIC, AND ANODYNE PREPARATIONS. WILLIAM JOHN TREVASKIS, doing business under the name of Salo-Sedatus Chemical Company, Fruitland Park, Fla.
Filed May 6, 1926. Serial No. 231,212. PUBLISHED AUGUST 28, 1928. Class 6.

249,138. CANNED BOLOGNA. AUGUST OHLENDORF, Jersey City, N. J.
Filed April 3, 1926. Serial No. 229,641. PUBLISHED AUGUST 21, 1928. Class 46.

249,139. LYE OR CAUSTIC SODA, WHICH LATTER IS THE TECHNICAL NAME FOR LYE. E. MYERS LYE CO., St. Louis, Mo.
Filed October 17, 1925. Serial No. 221,913. PUBLISHED AUGUST 28, 1928. Class 6.

249,140. FAMILY MEDICINES AND TOILET ARTICLES. LOUIS B. FRANCHINA, Cleveland, Ohio.
Filed October 6, 1924. Serial No. 203,464. PUBLISHED AUGUST 21, 1928. Class 6.

249,141. FACE POWDER AND BRILLIANTINE. SUPERIOR PRODUCTS COMPANY, Dallas, Tex.
Filed July 7, 1928. Serial No. 269,268. PUBLISHED AUGUST 28, 1928. Class 6.

249,142. WEEKLY STOCK-MARKET REVIEW. STOCK MARKET REPORTER, INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,267. PUBLISHED AUGUST 21, 1928. Class 38.

249,143. FRESH VEGETABLES. RICHMAN & SAMUELS INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,257. PUBLISHED AUGUST 21, 1928. Class 46.

249,144. PORTABLE OIL-PUMP TANK WITH BATTERY OF CONTAINERS. OIL PRODUCTS APPLIANCE COMPANY, Maywood, Ill.
Filed July 7, 1928. Serial No. 269,249. PUBLISHED AUGUST 28, 1928. Class 23.

249,145. PERFUMES. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed July 7, 1928. Serial No. 269,230. PUBLISHED AUGUST 28, 1928. Class 6.

249,146. POWDER TO BE RUBBED ON STOCKINGS IN ORDER TO INCREASE THEIR LIFE. MARCEL FRANCK, INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,229. PUBLISHED AUGUST 28, 1928. Class 6.

249,147. WOOL FABRICS. BERTH ROBERT-GROSS INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,220. PUBLISHED AUGUST 21, 1928. Class 42.

249,148. SILK PIECE GOODS. BERTH ROBERT-GROSS INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,219. PUBLISHED AUGUST 21, 1928. Class 42.

249,149. BUTTER. A. F. THIBODEAU CO., INC., Detroit, Mich.
Filed July 6, 1928. Serial No. 269,210. PUBLISHED AUGUST 21, 1928. Class 46.

249,150. TOILET PAPER. MEGARGEE BROS. INC., Scranton, Pa.
Filed July 6, 1928. Serial No. 269,195. PUBLISHED AUGUST 28, 1928. Class 37.

249,151. MONTHLY MAGAZINE. CLEVELAND GARMENT MANUFACTURERS ASSOCIATION, Cleveland, Ohio.
Filed July 6, 1928. Serial No. 269,183. PUBLISHED AUGUST 21, 1928. Class 38.

249,152. PICKLES. THE J. WELLER COMPANY, Oak Harbor, Ohio.
Filed July 5, 1928. Serial No. 269,164. PUBLISHED AUGUST 21, 1928. Class 46.

249,153. PERIODICAL PUBLICATIONS. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed July 5, 1928. Serial No. 269,159. PUBLISHED AUGUST 21, 1928. Class 38.

249,154. COTTON CLOTH PIECE GOODS. SOUTHERN MANUFACTURING COMPANY, Athens, Ga.
Filed July 5, 1928. Serial No. 269,157. PUBLISHED AUGUST 21, 1928. Class 42.

249,155. DRY JELLY, IN OTHER WORDS A DEHYDRATED JELLY IN POWDERED FORM CONTAINING FLAVORING AND OTHER INGREDIENTS READY MIXED FOR MAKING JELLY AND THE LIKE. AD. SEIDEL & SONS, Chicago, Ill.
Filed July 5, 1928. Serial No. 269,156. PUBLISHED AUGUST 21, 1928. Class 46.

249,156. FRESH GRAPEFRUIT. JAMES WILLIAM REED, Imperial, Calif.
Filed July 5, 1928. Serial No. 269,152. PUBLISHED AUGUST 21, 1928. Class 46.

249,157. BRASS INGOTS, BRONZE INGOTS, PIG LEAD, TYPE METALS, SPELTER, AND BABBITTS. H. KRAMER & COMPANY, Chicago, Ill.
Filed July 5, 1928. Serial No. 269,122. PUBLISHED AUGUST 21, 1928. Class 14.

249,158. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. CHESTER O. BANKS, doing business as C. O. Banks Co., Monrovia, Calif.
Filed July 5, 1928. Serial No. 269,079. PUBLISHED AUGUST 21, 1928. Class 46.

249,159. MAGAZINE. ATLAS PUBLISHING CO., INC., New York, N. Y.
Filed July 5, 1928. Serial No. 269,077. PUBLISHED AUGUST 21, 1928. Class 38.

249,160. SAUSAGES. ITALIAN SAUSAGE MANUFACTURING CO., Beaver Falls, Pa.
Filed July 3, 1928. Serial No. 269,064. PUBLISHED AUGUST 21, 1928. Class 46.

249,161. SILK IN THE PIECE. DUNDEE TEXTILE COMPANY, Passaic, N. J.
Filed July 21, 1928. Serial No. 269,949. PUBLISHED AUGUST 28, 1928. Class 42.

249,162. COFFEE. DOUGHNUT MACHINE CORPORATION, New York, N. Y.
Filed July 19, 1928. Serial No. 269,829. PUBLISHED AUGUST 28, 1928. Class 46.

249,163. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH. SCHWABACHER BROS. & CO., INC., Seattle, Wash.
Filed July 18, 1928. Serial No. 269,800. PUBLISHED AUGUST 28, 1928. Class 46.

249,164. CREAMERY BUTTER. J. WEINGARTEN, INC., Houston, Tex.
Filed July 16, 1928. Serial No. 269,701. PUBLISHED AUGUST 28, 1928. Class 46.

249,165. WOOLEN GOODS IN THE PIECE AND IN CUT LENGTHS. S. STEIN & Co., New York, N. Y.
Filed July 16, 1928. Serial No. 269,697. PUBLISHED AUGUST 28, 1928. Class 42.

249,166. CIGARETTES. DUDLEY W. LESTER, doing business as The Lester Tobacco Company, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,670. PUBLISHED AUGUST 28, 1928. Class 17.

249,167. MEDICINE FOR THE TREATMENT OF LUMBAGO, ARTICULAR, MUSCULAR, SCIATIC, GOUTY RHEUMATISM, AS WELL AS RHEUMATIC PAINS. HARVEY J. ROSOKOFF, doing business as Harvey's Drug Store, North Tonawanda, N. Y.
Filed July 14, 1928. Serial No. 269,607. PUBLISHED AUGUST 21, 1928. Class 6.

249,168. LEATHER SHOES. ARTHUR LAURENCE WILSON, Hamilton, Ontario, Canada.
Filed January 31, 1928. Serial No. 260,969. PUBLISHED JULY 24, 1928. Class 39.

249,169. PHOTOGRAPHIC CAMERAS. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York.
Filed January 31, 1928. Serial No. 260,930. PUBLISHED AUGUST 28, 1928. Class 26.

249,170. PHOTOGRAPHIC CAMERAS. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York.
Filed January 31, 1928. Serial No. 260,928. PUBLISHED AUGUST 28, 1928. Class 26.

249,171. PREPARATION FOR PREVENTING CORROSION OF METAL, AND ESPECIALLY OF BATTERY TERMINALS. CHARLES A. WALLERSTEIN, doing business as Master Products Mfg. Co., Brooklyn, N. Y.
Filed January 30, 1928. Serial No. 260,925. PUBLISHED AUGUST 28, 1928. Class 6.

249,172. FINGER ROLLS, SANDWICH ROLLS, WIENERS, ETC. DECO REFRESHMENTS INC., Buffalo, N. Y.
Filed January 28, 1928. Serial No. 260,811. PUBLISHED AUGUST 21, 1928. Class 46.

249,173. SEASONING FOR MEATS OR OTHER FOODS. A. C. LEGG PACKING COMPANY, INC., Birmingham, Ala.
Filed January 27, 1928. Serial No. 260,738. PUBLISHED AUGUST 21, 1928. Class 46.

249,174. WATER-REPELLING SHOWER CURTAIN. PARA RUBBER COMPANY, Newark, N. J.
Filed January 26, 1928. Serial No. 260,696. PUBLISHED AUGUST 28, 1928. Class 13.

249,175. LIQUID AND SEMISOLID POLISH FOR SILVERWARE, GOLD, DIAMONDS, PLATINUM, AND THE LIKE. FRED RIENDAU, doing business as Surprise Brand Products, Chicago, Ill.
Filed January 23, 1928. Serial No. 260,529. PUBLISHED JUNE 19, 1928. Class 4.

249,176. NICOTINE DUSTING POWDER. AMERICAN NICOTINE COMPANY, Henderson, Ky.
Filed June 29, 1928. Serial No. 268,839. PUBLISHED AUGUST 28, 1928. Class 6.

249,177. MOUTH WASH. BORIS J. STEARN, doing business as Orocide Chemical Company, Chicago, Ill.
Filed June 28, 1928. Serial No. 268,824. PUBLISHED AUGUST 21, 1928. Class 6.

249,178. ANALGESO HYPNOTIC. E. R. SQUIBB & SONS, New York, N. Y.
Filed June 28, 1928. Serial No. 268,822. PUBLISHED AUGUST 28, 1928. Class 6.

249,179. REFRIGERATORS, AND MORE PARTICULARLY REFRIGERATORS OF STEEL CONSTRUCTION. ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill.
Filed June 28, 1928. Serial No. 268,816. PUBLISHED AUGUST 28, 1928. Class 31.

249,180. REFRIGERATORS, AND MORE PARTICULARLY REFRIGERATORS OF STEEL CONSTRUC- ROCKFORD STEEL FURNITURE COMPANY, Rockford, Ill.
Filed June 28, 1928. Serial No. 268,815. PUBLISHED AUGUST 28, 1928. Class 31.

249,181. MOTH REPELLENT. PACIFIC CHEMICAL COMPANY, Los Angeles, Calif.
Filed June 28, 1928. Serial No. 268,801. PUBLISHED AUGUST 28, 1928. Class 6.

249,182. DEODORANTS. THE ODORONO COMPANY, Cincinnati, Ohio.
Filed June 28, 1928. Serial No. 267,899. PUBLISHED AUGUST 28, 1928. Class 6.

249,183. ANTISEPTIC PREPARATION FOR EXTERNAL AND INTERNAL USE. LA LYSINE FORNARI INTERNATIONAL AMERICAN CORPORATION, Boston, Mass., assignor to La Lysine International, Inc., Boston, Mass., a Corporation of Delaware.
Filed June 28, 1928. Serial No. 268,794. PUBLISHED AUGUST 28, 1928. Class 6.

249,184. METAL POLISHES. FRANK A. BUSSE CO., INC., Brooklyn, N. Y.
Filed June 28, 1928. Serial No. 268,768. PUBLISHED AUGUST 21, 1928. Class 4.

249,185. TITLE OF A MONTHLY PUBLICATION. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed June 27, 1928. Serial No. 268,758. PUBLISHED AUGUST 21, 1928. Class 38.

249,186. DENTIFRICE, TOOTH POWDER, AND PREPARATION FOR THE TREATMENT OF PYORRHEA. H. CHRIS OLTMAN, doing business as Spearo Manufacturing Company, Joplin, Mo.
Filed June 27, 1928. Serial No. 268,745. PUBLISHED AUGUST 28, 1928. Class 6.



249,187. DAIRY, HORSE, HOG, AND POULTRY FEEDS. F. S. WERTS & SON, Reading, Pa.
Filed June 26, 1928. Serial No. 268,722. PUBLISHED AUGUST 28, 1928. Class 46.

249,188. RAYON YARNS AND THREADS. N. Y. RAYON IMPORTING CO., INC., New York, N. Y.
Filed June 26, 1928. Serial No. 268,698. PUBLISHED AUGUST 28, 1928. Class 42.

249,189. CHOCOLATES, CANDIES, AND BONBONS. I. W. E. DE WELLES, INC., New York, N. Y., and Boston, Mass.
Filed June 26, 1928. Serial No. 268,682. PUBLISHED AUGUST 21, 1928. Class 46.

249,190. BREAD. B. WESTERGAARD & Co., Brooklyn, N. Y.
Filed June 25, 1928. Serial No. 268,666. PUBLISHED AUGUST 21, 1928. Class 46.

249,191. LIQUID CLEANSING COMPOUNDS AND DETERGENTS FOR USE ON GLASS, PORCELAIN, TILE, AND THE LIKE AND FOR LAUNDERING OPERATIONS. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed June 25, 1928. Serial No. 268,644. PUBLISHED AUGUST 21, 1928. Class 4.

249,192. HAND AND POWER OPERATED SPRAYERS, SPRAY PUMPS, PUMPS, SPRAY GUNS, AIR BRUSHES, AND ATOMIZERS FOR DOMESTIC AND INDUSTRIAL PURPOSES. D. B. SMITH & COMPANY, INC., Utica, N. Y.
Filed June 25, 1928. Serial No. 268,639. PUBLISHED AUGUST 28, 1928. Class 28.

249,193. SALT. MULKEY SALT CO., Detroit, Mich.
Filed June 25, 1928. Serial No. 268,623. PUBLISHED AUGUST 14, 1928. Class 6.

249,194. MAGAZINE PUBLISHED MONTHLY. IMPROVEMENT ASSOCIATION, Chicago, Ill.
Filed June 25, 1928. Serial No. 268,611. PUBLISHED AUGUST 21, 1928. Class 38.

249,195. MALT SYRUP FOR FOOD PURPOSES. HOME EXTRACT COMPANY, Tacoma, Wash.
Filed June 25, 1928. Serial No. 268,609. PUBLISHED AUGUST 21, 1928. Class 46.

249,196. CERTAIN NAMED WEARING APPAREL. H. LOEB & CO., INC., New York, N. Y.
Filed January 21, 1927. Serial No. 248,161. PUBLISHED JULY 3, 1928. Class 39.

249,197. CERTAIN NAMED WEARING APPAREL. H. LOEB & CO., INC., New York, N. Y.
Filed January 21, 1927. Serial No. 248,162. PUBLISHED JULY 3, 1928. Class 39.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

249,198. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENROSS SILK MFG. CORP., New York, N. Y. Filed Sept. 27, 1928. Serial No. 273,041.

"Peerless Crepe"

For Silk Piece Goods.
Claims use since Feb. 24, 1927.

249,199. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL HIRT, Chicago, Ill. Filed Aug. 18, 1928. Serial No. 271,255.

BLANDURA

For Cold Cream, Tissue Cream, and Vanishing Cream.
Claims use since Nov. 14, 1925.

249,200. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILWAUKEE DELICATESSEN, INC., Lincoln, Nebr. Filed Aug. 16, 1928. Serial No. 271,140.

VEREBEST

For Malt Extract.
Claims use since 1926.

249,201. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed July 3, 1928. Serial No. 269,024.

PARIS

For Dress Shields.
Claims use since 1910.

249,202. (CLASS 25. LOCKS AND SAFES.) WILLIAM B. JAMES, Los Angeles, Calif., assignor to Alfred H. Aarons, Los Angeles, Calif., Filed May 31, 1928. Serial No. 267,258.

Lock-A-Fone

For Telephone-Dial Locks.
Claims use since Mar. 15, 1927.

249,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALBERT CARL SCHILLING, Philadelphia, Pa. Filed May 24, 1928. Serial No. 266,956.

Schilling's QUALITY

For Ice Cream, Cakes, Bread, Pies, Doughnuts, Cookies, Biscuits, Buns, Rolls, Pastry.
Claims use since 1919.

249,204. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) H. MILGRIM & BROS., INC., New York, N. Y. Filed May 23, 1928. Serial No. 266,870.

MILGRIM

For Leather and Silk Hand Bags.
Claims use since Jan. 1, 1927.

249,205. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WALTER MARVIN, doing business as Templar Oil Products Co., Brooklyn, N. Y. Filed Mar. 14, 1928. Serial No. 263,165.

Sta-Brite

For Cleansing Preparation—Namely, Liquid Soap Suitable for Cleaning and Preserving Linoleum, Rubber Flooring, and Other Surfaces.
Claims use since May, 1925.

249,206. (CLASS 17. TOBACCO PRODUCTS.) ANGELINA ALFIERI, doing business as Alfieri Cigar Company, New York, N. Y. Filed Jan. 3, 1928. Serial No. 259,611.

SIGARI ALFIERI

For Cigars.
Claims use since July 1, 1927.

249,207. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE PYRAMID RUBBER SPECIALTY COMPANY, Ravenna, Ohio. Filed Dec. 30, 1927. Serial No. 259,502.

CRYSTAL

For Rubber Nursing Nipples and Surgical Rubber Gloves.
Claims use since Sept. 5, 1927.

249,208. (CLASS 38. PRINTS AND PUBLICATIONS.) ESTELLE KEGLER WELLS, Douglaston, Long Island, N. Y. Filed Dec. 21, 1927. Serial No. 259,228.

JANE DIXON

For Pen Name for Newspaper Feature Articles.
Claims use since January, 1917.

249,209. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES VERNOR COMPANY, Detroit, Mich. Filed Dec. 3, 1927. Serial No. 258,430.

*deliciously different!*

Applicant is the owner of registrations 194,973 and 193,341.
For An Aromatic Baking Flavor for Use in Place of Ginger, in Powder Form.
Claims use since on or about Sept. 1, 1927.

249,210. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEFLORE GROCERY CO., doing business as Leflore Coffee Co., Greenwood, Miss. Filed Dec. 3, 1927. Serial No. 258,418.

INFALLIBLE

For Roasted Coffee.
Claims use since Sept. 15, 1927.

249,211. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) GEORGE MACEWEN MALCOLM, New York, N. Y. Filed Nov. 19, 1927. Serial No. 257,806.

YORK

For Automobile Trucks and Constructive Parts Thereof.
Claims use since Aug. 15, 1927.

249,212. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) I. MILLER & SONS, INC., Long Island City, N. Y. Filed Oct. 20, 1927. Serial No. 256,366.

*Perugia*

For Canes, Parasols, and Umbrellas.
Claims use since June 20, 1927.

249,213. (CLASS 41. CANES, PARASOLS, AND UMBRELLAS.) I. MILLER & SONS, INC., Long Island City, N. Y. Filed Nov. 17, 1927. Serial No. 257,695.

PERUGIA

For Canes, Parasols, and Umbrellas.
Claims use since June 20, 1927.

249,214. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAYLE FOOD PRODUCTS CO., St. Louis, Mo. Filed Jan. 31, 1927. Serial No. 243,579.

BAYLE Quality

For Salted Peanuts, Chocolate-Coated Peanuts, Salted Almonds, Salted Pecans, Peanut Butter, Salad Mustard, Mustard and Mustard Bran, Salad Dressing, Sandwich Dressing, Mustard, Mayonnaise, Sandwich Spread Composed of Pickle Relish and Mayonnaise, Horse-Radish Mustard.
Claims use since on or about Oct. 15, 1914.



249,215. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNA M. FISHER, Los Angeles, Calif. Filed Mar. 30, 1927. Serial No. 246,604.

LADY RANDOLPH

For Talcum Powder, Face Creams, Face Paste, Liquid Astringents; Face Wash, and a Lotion for Cleansing the Face; and Oils for Facial Use.
Claims use since Mar. 15, 1927.

249,216. (CLASS 39. CLOTHING.) JOSEPH W. KRAUSE, Brooklyn, N. Y. Filed May 13, 1927. Serial No. 248,961.

KLING KLOSE Brassiere

For Brassières.
Claims use since May 11, 1927.

249,217. (CLASS 39. CLOTHING.) THE ARMSTRONG CATOR COMPANY, Baltimore, Md. Filed July 13, 1927. Serial No. 251,941.

PARIS *Moderne* BALTIMORE

For Women's Hats and Hat Linings.
Claims use since July 1, 1927.

249,218. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITALIAN VINEYARD CO., Guasti and Los Angeles, Calif. Filed July 18, 1927. Serial No. 252,206.

GUASTI

For Sweet Sauterne Flavoring, Sweet Sherry Flavoring, and Sweet Port Flavoring for Food Purposes, Sauce à la Bordelaise, Sauce à la Bercy, Cooking Sherry Compounded with Salt and Used for Seasoning Sauces, Meats, Etc., and Wine Jelly.
Claims use since Dec. 15, 1925, on cooking sherry; May 15, 1927, on sweet sherry flavoring, and on remaining products since July 11, 1927.

249,219. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALPHA LABORATORIES, Chicago, Ill. Filed July 20, 1927. Serial No. 252,310.

LACTO KAOLIN

For Special Preparation for Overcoming Intestinal Putrefaction and Establishing an Aciduric, Antiputrefactive Flora without the Use of B. Acidophilus Cultures or Special Diets.
Claim use since on or about Jan. 15, 1927.

249,220. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ELIZABETH WALKER ROGERS, St. Paul, Minn. Filed Aug. 8, 1927. Serial No. 253,200.

Builder-Boards

For Boards Used in the Construction of Full-Sized Toys.
Claims use since June 16, 1927.

249,221. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ITALIAN-SWISS COLONY, San Francisco, Calif. Filed Aug. 24, 1927. Serial No. 253,895.

ASTI-SAL

For Potassium Salt Used for Purposes of Ameliorating Fruit Juices.
Claims use since Aug. 3, 1927.

249,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOWARD R. PEASE, doing business as Casca-Terpin Co., Toledo, Ohio. Filed Aug. 24, 1927. Serial No. 253,911.

CASCA-TERPIN

For Medicine for Use in the Treatment of Coughs, Colds, Whooping Cough, and Bronchitis.
Claims use since Aug. 13, 1927.

249,223. (CLASS 39. CLOTHING.) FRANK G. DELBON, Brooklyn, N. Y. Filed Sept. 17, 1927. Serial No. 254,835.

TARSALARCH SUPPORT

For Leather Shoes.
Claims use since about May 15, 1927.

249,224. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES. STERLING TIRE CORPORATION, doing business as Hardwear Tire Corporation, Rutherford, N. J. Filed Sept. 19, 1927. Serial No. 254,940.

HOWE

For Pneumatic Tires and the Inner Tubes and Outer Casings Thereof.
Claims use since July 20, 1927.

249,255. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARTHUR SOMERO, doing business as Catskill Paint & Varnish Co., Chicago, Ill. Filed Oct. 13, 1927. Serial No. 256,060.

STAZON

For Ready-Mixed Paints, Paint Enamels, and Varnishes.
Claims use since Aug. 30, 1927.

249,226. (CLASS 39. CLOTHING.) LOUIS MEYERS & SON, INC., New York, N. Y. Filed June 2, 1928. Serial No. 267,371.

DUOWEVE

For Fabric Gloves.
Claims use since Apr. 28, 1927.

## TRADE-MARK REGISTRATIONS RENEWED

69,199. VELVETEENS. Registered March 10, 1908. MECHANISCHE WEBEREI ZU LINDEN, Hannover-Linden, Germany, a Corporation of Germany. Renewed March 10, 1928.

69,915. CURRYCOMBS. Registered July 14, 1908. NEW YORK STAMPING COMPANY, Brooklyn, N. Y., a Corporation of New York. Renewed July 14, 1928.

70,693. ABSORBENT COTTON AND GAUZE, AND SILK AND CATGUT LIGATURES. Registered September 22, 1908. LISTER SURGICAL COMPANY. Renewed September 22, 1928, to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey, assignee.

70,824. CERTAIN TOILET PREPARATIONS. Registered October 6, 1908. THE ZONA TOILET CO., Wichita, Kans. Renewed October 6, 1928.

70,938. AN HERB TEA. Registered October 20, 1908. J. C. FRESE & CO., Hamburg, Germany. Renewed October 20, 1928.

71,028. INSECTICIDES. Registered October 27, 1908. ADOLPH C. MEYER, Baltimore, Md. Renewed October 27, 1928, to Henry A. Frentz, doing business as A. C. Meyer & Co., Catonsville and Baltimore, Md., assignee.

71,172. REMEDIES FOR CERTAIN DISEASES. Registered November 3, 1908. THE MOTHER'S REMEDIES CO., Chicago, Ill., a Corporation of Illinois. Renewed November 3, 1928.

71,242. ANILIN COLORING MATERIALS. Registered November 10, 1908. SCHOELLKOPF, HARTFORD & HANNA COMPANY, Buffalo, N. Y. Renewed November 10, 1928, to National Aniline & Chemical Company, Inc., New York, N. Y., a Corporation of New York, assignee.

71,250. CERTAIN CANNED FRUITS. Registered November 10, 1908. ARMSBY PRESERVING CO. Renewed November 10, 1928, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee by mesne assignments.

71,251. CERTAIN CANNED FRUITS. Registered November 10, 1908. ARMSBY PRESERVING CO. Renewed November 10, 1928, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee by mesne assignments.

71,252. CERTAIN CANNED FRUITS. Registered November 10, 1908. ARMSBY PRESERVING CO. Renewed November 10, 1928, to California Packing Corporation, San Francisco, Calif., a Corporation of New York, assignee by mesne assignments.

71,467. FABRIC HOSE. Registered November 24, 1908. EUREKA FIRE HOSE MANUFACTURING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed November 24, 1928.

71,935. CLOTHS AND STUFFS OF WOOL, WORSTED, OR HAIR. Registered December 22, 1908. THE BRADFORD DYERS' ASSOCIATION, LIMITED, Bradford, England, a Corporation of Great Britain. Renewed December 22, 1928.



71,986. RUBBER BOOTS, SHOES, AND CLOTHING. Registered December 29, 1908. AMERICAN RUBBER COMPANY, Boston, Mass. Renewed December 29, 1928, to Boston Rubber Shoe Company, Malden and Boston, Mass., a Corporation of Massachusetts, assignee.

72,064. HIGH EXPLOSIVES AND BLASTING CAPS AND FUSES. Registered December 29, 1908. E. I. DU PONT DE NEMOURS POWDER COMPANY, as assignee of The Eastern Dynamite Company, Kenvil, N. J. Renewed December 29, 1928, to E. I. du Pont de Nemours and Company, Wilmington, Del., a Corporation of Delaware, assignee by mesne assignments.

72,081. PURE MALT SCOTCH WHISKY. Registered December 29, 1908. GEORGE SMITH GRANT, Inveraven, Scotland. Renewed December 29, 1928, to W. H. S. Grant, doing business as G. & J. G. Smith, Inveravon, Scotland, assignee.

72,145. STOVES AND RANGES AND PARTS OF STOVES AND RANGES. Registered January 5, 1909. CRIBBEN & SEXTON COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 5, 1929.

72,258. CERTAIN PHARMACEUTICAL PREPARATIONS. Registered January 12, 1909. GEO. F. SMITH, Woodsboro, Md. Renewed January 12, 1929.

72,281. COTTON DUCK. Registered January 12, 1909. JOHN BOYLE & CO., INC., New York, N. Y., a Corporation of New York. Renewed January 12, 1929.

72,385. FLAT-WICK BURNERS FOR OIL-BURNING LAMPS AND LANTERNS. Registered January 19, 1909, to R. E. DIETZ COMPANY, New York, N. Y., a Corporation of New York. Renewed January 19, 1929.

72,417. SEWING-MACHINE NEEDLES AND SHUTTLES. Registered January 26, 1909. THE BOYE NEEDLE COMPANY, Chicago, Ill., a Corporation of Illinois. Renewed January 26, 1929.

72,465. POCKET KNIVES, SCISSORS, AND RAZORS. Registered January 26, 1909. WESTER BROS. Renewed January 26, 1929, to Wester Bros., New York, N. Y., a Firm, assignee by mesne assignments.

72,521. TOILET SOAP. Registered February 2, 1909. MULHENS & KROPFF. Renewed February 2, 1929, to Mulhens & Kropff, Incorporated, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

72,673. SPIRITS OF TURPENTINE AND SUBSTITUTE THEREFOR. Registered February 9, 1909. SUN COMPANY. Renewed February 9, 1929, to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey, by change of name.

72,675. SPIRITS OF TURPENTINE AND SUBSTITUTE THEREFOR. Registered February 9, 1909. SUN COMPANY. Renewed February 9, 1929, to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey, by change of name.

72,713. LEATHER DRESSINGS AND POLISHES. Registered February 16, 1909. LEONARDO CRAZIADEI. Renewed February 16, 1929, to Yankee Polish Co., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

72,819. A BLOOD PURIFIER. Registered February 23, 1909. HARRY H. HYAMS, doing business as Puritan Chemical Company, Cincinnati, Ohio. Renewed February 23, 1929.

72,863. COTTON-FELT MATTRESSES. Registered March 2, 1909. C. C. CARTY, Frederick, Md. Renewed March 2, 1929.

73,007. PAPER. Registered March 9, 1909. HAWLEY PULP AND PAPER COMPANY. Renewed March 9, 1929, to Hawley Pulp and Paper Company, Oregon City, Oreg., a Corporation of Delaware, assignee.

73,082. SILK PIECE GOODS. Registered March 16, 1909. GALLIA SILK MILLS, Portland, Me., a Corporation of Maine. Renewed March 16, 1929.

73,102. SALT-WATER TAFFY. Registered March 16, 1909. ATLANTIC CITY CANDY COMPANY (INCORPORATED), Atlantic City, N. J. Renewed March 16, 1929, to Life Savers, Inc., Port Chester, N. Y., a Corporation of New York, assignee by mesne assignments.

73,137. METAL REELS AND METAL SPOOLS. Registered March 16, 1909. FRANK MOSSBERG COMPANY. Renewed March 16, 1929, to Apco Mossberg Corporation, Attleboro, Mass., a Corporation of Rhode Island, assignee.

73,155. SODIUM PARA-AMINOPHENYLARSONATES. Registered March 23, 1909. HENRY SOLOMON WELLCOME, London, England. Renewed March 23, 1929, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

## LABELS

### REGISTERED NOVEMBER 6, 1928.

34,898.—*Title:* BEECH-NUT BRAND CHEWING GUM, PEPPERMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 8, 1928.

34,899.—*Title:* BEECH-NUT BRAND CHEWING GUM, PEPPERMINT. For Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 8, 1928.

34,900.—*Title:* BEECH-NUT PEPPERMINT CANDY COATED GUM, BEECHIES. For Chewing Gum. BEECH-NUT PACKING COMPANY Canajoharie, N. Y. Published April 21, 1926.

34,901.—*Title:* ROSITA. For Oranges. CANOGA CITRUS ASSOCIATION, Owensmouth, Calif. Published May 24, 1928.

34,902.—*Title:* CHICOS. For Salted Peanuts. THE CURTISS CANDY COMPANY, Chicago, Ill. Published August 15, 1928.

34,903.—*Title:* FULY-RYPE. For Canned Pears. EUGENE FRUIT GROWERS ASSOCIATION, Eugene, Oreg. Published June 1, 1928.

34,904.—*Title:* SUNI-BEL. For Prunes. INDEPENDENT GROWERS PACKING COMPANY, San Jose, Calif. Published August 1, 1928.

34,905.—*Title:* OSAY. For Liquid Preparation for Excessive Perspiration. FRANK H. POETZ, doing business as Summit Mfg. Co., St. Paul, Minn. Published July 1, 1928.

34,906.—*Title:* PORTER EVER FRESH EGG MACARONI PRODUCTS. For Macaroni Products. PORTER-SCARPELLI MACARONI COMPANY, Portland, Oreg. Published August 26, 1928.

34,907.—*Title:* REICHARDT'S TULIP CHEST CHOCOLATES. For Candy. REICHARDT COCOA & CHOCOLITE CO. INC., doing business as Reichardt's, New York, N. Y. Published September 12, 1928.

34,908.—*Title:* TEENIE WEENIE TOFFIES. For Candy. REID, MURDOCH & CO., Chicago, Ill. Published September 6, 1928.

34,909.—*Title:* GRIZZLY GIANT. For Oranges. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published September 1, 1928.

34,910.—*Title:* HARMONY. For Oranges. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published September 1, 1928.

34,911.—*Title:* OUR EMBLEM. For Oranges. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published September 1, 1928.

34,912.—*Title:* PET. For Oranges. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published September 1, 1928.

34,913.—*Title:* WHITE HORSE. For Grapefruit. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Published September 1, 1928.

34,914.—*Title:* TOP-OFF MINTS. For Candy. FRANK G. SHATTUCK COMPANY, also doing business as The Schrafft's Stores, New York, N. Y. Published August 6, 1928.

34,915.—*Title:* THE LIQUID SOLVIT-ALL SANITARY SOLVENT. For a Liquid Sanitary Solvent. SOLVIT-ALL CORPORATION, New York, N. Y. Published January 19, 1928.

34,916.—*Title:* FLIT KILLS FLIES MOSQUITOES MOTHS BEDBUGS ROACHES ANTS. For Insecticide. STANCO INCORPORATED, New York, N. Y. Published March 26, 1928.

34,917.—*Title:* FERNDALE. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published September 4, 1928.

34,918.—*Title:* RICHLAND. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published September 4, 1928.

34,919.—*Title:* BUTTERCUP. For Butter. THE SUTHERLAND PAPER COMPANY, Kalamazoo, Mich. Published September 1, 1928.

34,920.—*Title:* HOF-BRAND. For Malt Syrup. VAL BLATZ BREWING CO., Milwaukee, Wis. Published September 15, 1928.

# PRINTS

## REGISTERED NOVEMBER 6, 1928.

11,308.—*Title:* BEECH-NUT BUTTER SCOTCH. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published July 15, 1926.

11,309.—*Title:* BEECH-NUT FRUIT DROPS. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published December 12, 1925.

11,310.—*Title:* BEECH-NUT LEMON FRUIT DROPS. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 12, 1926.

11,311.—*Title:* BEECH-NUT ORANGE FRUIT DROPS. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published September 30, 1926.

11,312.—*Title:* BEECH-NUT LIME FRUIT DROPS. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published July 30, 1927.

11,313.—*Title:* AN AUTHORITATIVE REVIEW OF THE LATEST FINDINGS IN NUTRITION. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published October 1, 1928.

11,314.—*Title:* A VALUABLE BOOKLET FOR BUSY DOCTORS. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published October 1, 1928.

11,315.—*Title:* WHAT, OH, WHAT A FLAVOR THERE IS TO HEINZ COOKED SPAGHETTI. For Cooked Spaghetti. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published October 1, 1928.

11,316.—*Title:* WHAT, OH, WHAT A FLAVOR THERE IS TO HEINZ COOKED SPAGHETTI. For Cooked Spaghetti. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published October 1, 1928.

11,317.—*Title:* THE ELEPHANT. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published October 1, 1928.

11,318.—*Title:* HARLEQUIN. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published September 1, 1928.

11,319.—*Title:* THE FLAMINGOS. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published August 1, 1928.

11,320.—*Title:* PRINTERS' DEVILS. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published May 1, 1928.

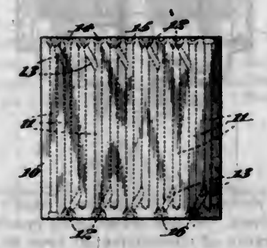
11,321.—*Title:* FEEL THEIR WARMTH. For Blankets. NASHUA MANUFACTURING COMPANY, Nashua, N. H. Published September 15, 1928.

11,322.—*Title:* WHEN Y-A-W-N-I-N-G TIME COMES. For Blankets. NASHUA MANUFACTURING COMPANY, Nashua, N. H. Published September 10, 1928.

# REISSUES

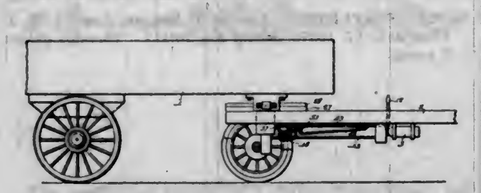
## NOVEMBER 6, 1928.

17,123. STEAM HOT PLATE. WILLIAM H. APPLEBY, Baltimore, Md., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed July 27, 1928. Serial No. 295,833. Original No. 1,490,721, dated Apr. 15, 1924, Serial No. 480,427, filed June 25, 1921. Division of reissue application No. 97,477, filed Mar. 25, 1926. Application for reissue filed Aug. 11, 1927, Serial No. 212,325. Reissue Patent No. 16,953, dated May 1, 1928. 2 Claims. (Cl. 257—256.) Division B.



1. A hot plate for presses comprising a metallic plate having two ducts drilled therein, one end of one of said ducts being enlarged to provide a socket, a cross passageway drilled from the bottom of this socket at an angle to the ducts, to the second duct, and closure means for the mouth of the socket.

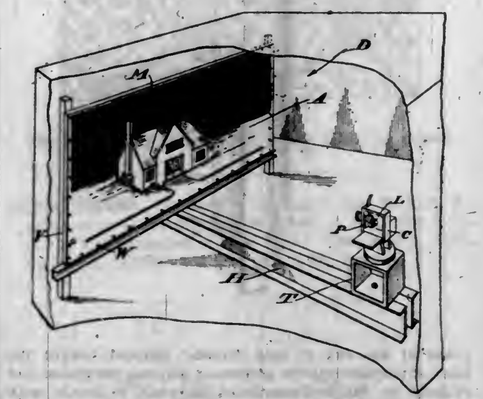
17,124. TRAILER HOIST AND COUPLER. WILLIAM MAYER, New York, N. Y. Filed Dec. 4, 1926. Serial No. 152,707. Original No. 1,591,857, dated July 6, 1926, Serial No. 61,102, filed Oct. 7, 1925. 14 Claims. (Cl. 280—33.1.)



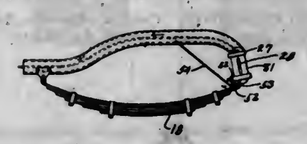
14. A heavy duty hoist and coupler for tractors and trailers, comprising power means for actuating said hoist and coupler for raising and lowering one end of the trailer and its load, a manually actuated member for causing said power means to be thrown into functioning position, automatically actuated means for causing said power means to be moved to a non-functioning position, and a connecting mechanism connecting the power means with the engine of the tractor.

17,125. METHOD OF MAKING MOTION-PICTURE FILMS. JOHN F. SEITZ, Hollywood, Calif. Filed Nov. 28, 1927. Serial No. 236,353. Original No. 1,576,854, dated Mar. 16, 1926, Serial No. 606,400, filed Dec. 12, 1922. 5 Claims. (Cl. 88—16.)

1. In the art of making composite motion pictures the steps of making a picture of a scene having a desired component, and blocking out thereon all but the desired component to produce a blocked picture, projecting the blocked picture upon a screen, outlining a mat thereon complementary to and matching the desired component by the aid of said projected blocked picture so as to optically register with and mask the desired component.



17,126. LUBRICATING SYSTEM. GEORGE R. SIEGRIST, Port Huron, Mich. Filed Mar. 6, 1926. Serial No. 92,956. Original No. 1,545,981, dated July 14, 1925, Serial No. 678,614, filed Dec. 5, 1923. 32 Claims. (Cl. 184—7.)

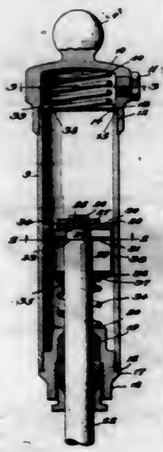


31. A lubricating system for a road vehicle chassis having, in combination, a part to be lubricated, a lubricant container, reciprocating pumping mechanism in communication with said container and communicating through a discharge conduit with said part to deliver a small quantity of lubricant to said part, said reciprocating pumping mechanism so mounted upon the vehicle as to be operably responsive to the shock of travel of the vehicle over the road.

17,127. SHOCK ABSORBER. CLARENCE W. THOMPSON, Wilmington, Del., assignor, by mesne assignments, to Superior Equipment Corporation, a Corporation of Delaware. Filed July 19, 1928. Serial No. 293,965. Original No. 1,592,912, dated July 20, 1926, Serial No. 706,472, filed Apr. 14, 1924. 11 Claims. (Cl. 267—8.)

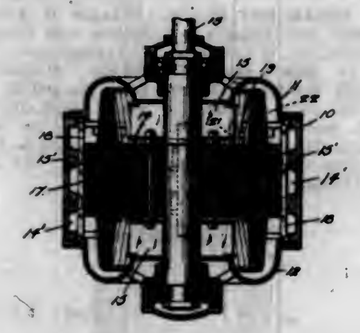
5. A shock-absorber, comprising a cylinder adapted to be substantially filled with liquid, a rod reciprocable within said cylinder, a piston mounted upon said rod and fitting within said cylinder and having ports therethrough, valve means associated with said piston and effective dur-

ing relative movement between said piston and cylinder in one direction to permit passage of liquid through said ports and during relative movement between said piston and cylinder in the opposite direction to materially restrict passage of fluid past said piston, and means dis-



posed at one end of said cylinder adapted toward the limit of possible relative movement between the piston and cylinder in the first-mentioned direction to co-act with said piston to substantially entrap a body of liquid between the piston and cylinder end, said means being formed to permit a restricted escape of such entrapped liquid.

17,128. REMOVABLE STATOR FOR ELECTRIC MOTORS. CARL L. DAUN and PAUL E. KELLER, Milwaukee, Wis., assignors, by mesne assignments, to Splitdorf Electric Company of Wisconsin, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 17, 1927. Serial No. 220,200. Original No. 1,626,028, dated Apr. 26, 1927, Serial No. 615,685, filed Jan. 29, 1923. 8 Claims. (Cl. 171—252.)



1. In an electric motor, a frame, a stator and a rotor, mounted therein, the said frame being provided interiorly with a plurality of circumferential rows of grooved projections concentrically and axially aligned with respect to the rotor, and locking keys, each engaging a plurality of the aligned grooved projections and the stator, to position the latter concentrically with relation to the rotor, whereby upon removal of the said keys the stator and its winding as a unit may be withdrawn from the frame.

# DESIGNS

## NOVEMBER 6, 1928.

76,768. SPINNING TOY. CARL V. BENSON, Lake City, Colo. Filed June 6, 1928. Serial No. 27,012. Term of patent 7 years.



The ornamental design for a spinning toy, as shown.

76,769. STATUETTE. SAMUEL I. BERGER, Newark, N. J. Filed Jan. 17, 1927. Serial No. 20,411. Term of patent 7 years.



The ornamental design for a statuette as shown.



76,770. MIRROR OR SIMILAR ARTICLE. EDWARD G. BLUMENFELD, Brooklyn, N. Y., assignor to La Salle Brass & Bronze Works, Inc., a Corporation of New York. Filed Aug. 2, 1928. Serial No. 27,672. Term of patent 3½ years.



The ornamental design for a mirror or similar article, as shown.

76,771. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1928. Serial No. 27,828. Term of patent 3½ years.





The ornamental design for a curtain and portière rod, as shown.

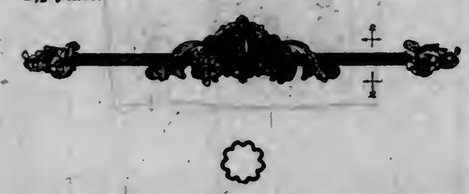
76,772. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1928. Serial No. 27,829. Term of patent 3½ years.





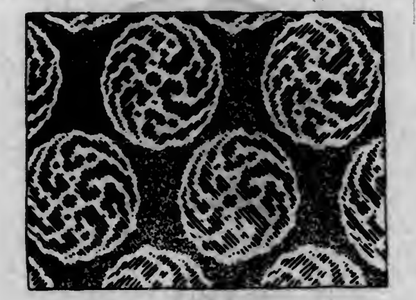
The ornamental design for a curtain and portière rod, as shown.

76,773. CURTAIN AND PORTIÈRE ROD. JAMES H. BOYE, Chicago, Ill., assignor to James H. Boye Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1928. Serial No. 27,830. Term of patent 3½ years.



The ornamental design for a curtain and portière rod, as shown.

76,774. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed July 21, 1928. Serial No. 27,551. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,775. DRESS. KATHERINE E. BURNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 1, 1928. Serial No. 27,660. Term of patent 3½ years.



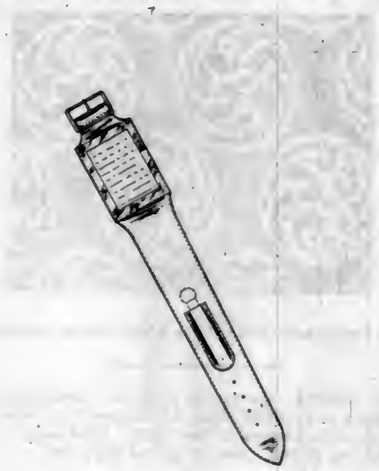
The ornamental design for a dress substantially as shown and described.

76,776. HALLOWEEN CANDY. WILLIS WILLIAM CASSIDY, Salt Lake City, Utah. Filed June 16, 1928. Serial No. 27,167. Term of patent 3½ years.



The ornamental design for a halloween candy, as shown.

76,777. COMBINED WRISTLET, NOTE PAD, AND PENCIL HOLDER. ALFRED BLACKMORE CLARK and ARCHIBALD CHARLES KOESTER, London, England. Filed Oct. 29, 1927, Serial No. 23,942, and in France Aug. 13, 1927. Term of patent 7 years.



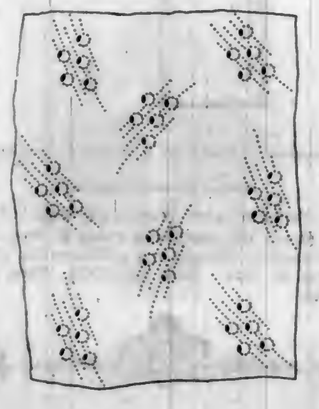
The ornamental design for a combined wristlet, note pad, and pencil holder as shown.

76,778. PLATE OR SIMILAR ARTICLE. JOHN A. CRONIN, Clarksburg, W. Va., assignor to The D. E. McNicol Pottery Co. of W. Va., Clarksburg, W. Va., a Corporation of West Virginia. Filed Aug. 9, 1928. Serial No. 27,756. Term of patent 7 years.



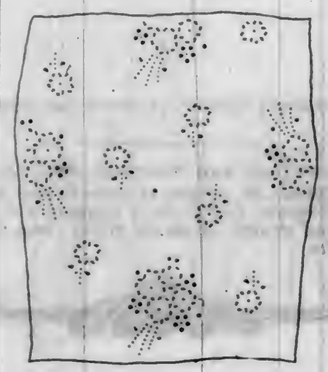
The ornamental design for a plate or similar article, as shown.

76,779. FLOCKED VOILE FABRIC. KENNETH G. CURRIER, East Orange, N. J., and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1928. Serial No. 25,345. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

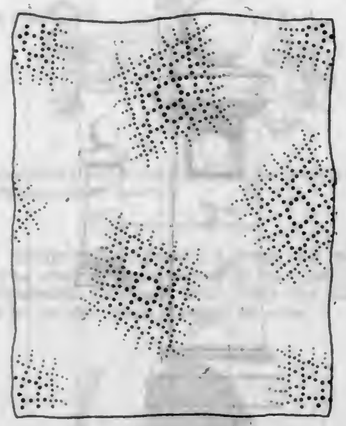
76,780. FLOCKED VOILE FABRIC. KENNETH G. CURRIER, East Orange, N. J., and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1928. Serial No. 25,346. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

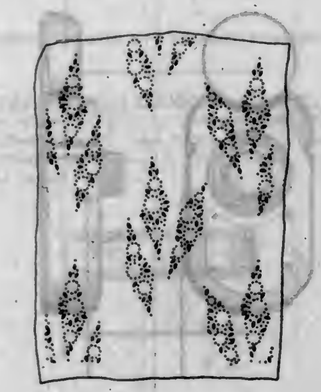


76,781. FLOCKED VOILE FABRIC. KENNETH G. CURRIER, East Orange, N. J., and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1928. Serial No. 25,347. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

76,782. FLOCKED VOILE FABRIC. KENNETH G. CURRIER, East Orange, N. J., and JULES HEINRICH, New York, N. Y., assignors to Fred Butterfield & Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 10, 1928. Serial No. 25,348. Term of patent 3½ years.



The ornamental design for flocked voile fabric, as shown.

76,783. COMBINATION BOOKCASE AND DESK CABINET OR SIMILAR ARTICLE. EDWIN C. M. DICKEY, Newark, N. J. Filed Apr. 4, 1928. Serial No. 26,119. Term of patent 14 years.



The ornamental design for a combination bookcase and desk-cabinet or similar article, as shown.

76,784. TEXTILE FABRIC. CARL EDLICH, Delawanna, N. J., assignor to Max Kaufmann & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 13, 1928. Serial No. 27,803. Term of patent 3½ years.



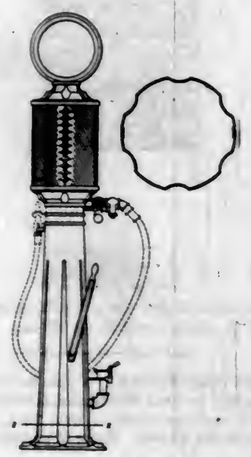
The ornamental design for textile fabric substantially as shown.

76,785. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed July 11, 1928. Serial No. 27,454. Term of patent 3½ years.



The ornamental design for a belt buckle, as shown.

76,786. PUMP CASING. EARL E. EICKMEYER, Dayton, Ohio, assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 15, 1928. Serial No. 25,448. Term of patent 7 years.



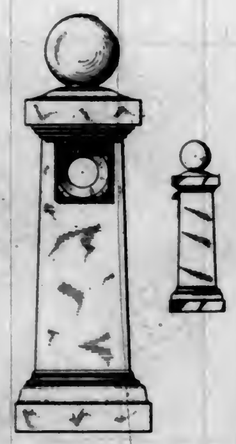
The ornamental design for a pump casing as shown.

76,787. TEXTILE FABRIC. GUSTAVE F. ERHARD, Scranton, Pa., assignor to The Scranton Lace Company, Scranton, Pa., a Corporation of Pennsylvania. Filed July 19, 1928. Serial No. 27,533. Term of patent 7 years.



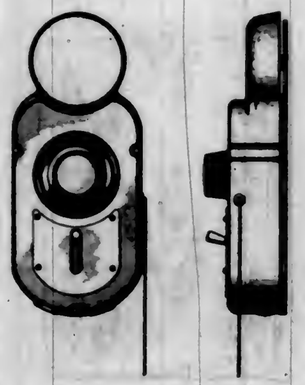
The ornamental design for a textile fabric, substantially as shown and described.

76,788. GASOLINE-METER CASING. CHARLES D. FAGAN, Sharon, Pa., assignor to Sharpsville Boiler Works Co., Sharpsville, Pa., a Corporation of Pennsylvania. Filed July 28, 1927. Serial No. 22,904. Term of patent 14 years.



The ornamental design for a gasoline meter casing, as shown.

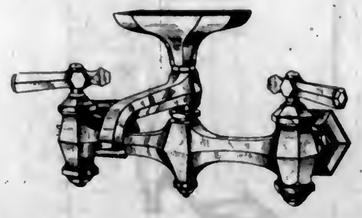
76,789. TIME-SWITCH CASING. EDWIN S. FLARSHEIM, Cincinnati, Ohio, assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 19, 1927. Serial No. 22,100. Term of patent 14 years.



The ornamental design for a time switch casing, as shown.



76,790. COMBINATION FAUCET AND SOAP DISH. JAMES FRASER, Hillcrest, Edgemoor, Delaware, assignor to The Speakman Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1928. Serial No. 25,678. Term of patent 7 years.



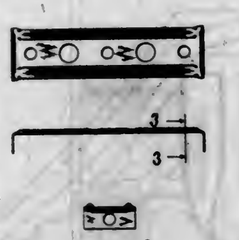
The ornamental design for a combination faucet and soap dish, substantially as shown.

76,791. SHOE SOLE. ARTHUR S. FUNK and EDGAR S. BOTT, La Crosse, Wis., assignors to La Crosse Rubber Mills Company, La Crosse, Wis. Filed Dec. 12, 1927. Serial No. 24,456. Term of patent 14 years.



The ornamental design for a shoe sole, as shown.

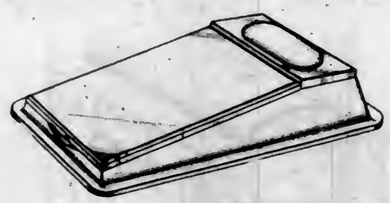
76,792. TOY BUILDING ELEMENT. ALFRED C. GILBERT, Hamden, Conn., assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed Mar. 3, 1928. Serial No. 25,653. Term of patent 14 years.




The ornamental design for a toy building element, substantially as shown.

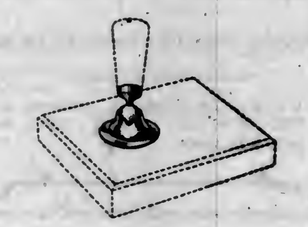


76,793. SCORE-PAD HOLDER. JAMES GORDON, Chicago, Ill. Filed Jan. 25, 1928. Serial No. 25,019. Term of patent 3½ years.



The ornamental design for a score pad holder substantially as shown.

76,794. SUPPORT FOR PENHOLDER. WALTER GUYOT, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a Corporation of Wisconsin. Filed June 18, 1927. Serial No. 22,488. Term of patent 14 years.



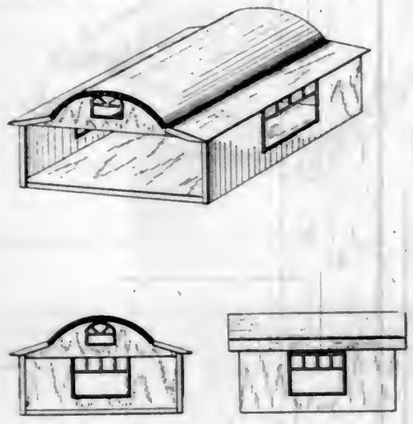
The ornamental design for a support for penholder, as shown.

76,795. DISPLAY STAND. LOUIS HALK, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1928. Serial No. 27,876. Term of patent 3½ years.



The ornamental design for display stand as shown.

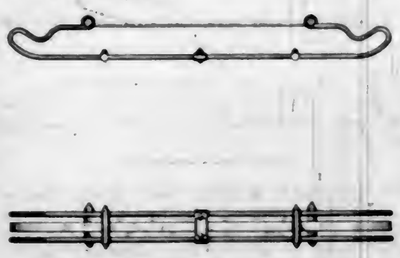
76,796. HANGAR FOR TOY AEROPLANES. GEORGE A. HALTER, Lakewood, Ohio, assignor to The Halter Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 23, 1928. Serial No. 25,532. Term of patent 14 years.



The ornamental design for a hangar for toy aeroplanes, as shown.

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76,797. AUTOMOBILE BUMPER. EDWARD J. HARVEY, Racine, Wis. Filed Dec. 21, 1927. Serial No. 24,573. Term of patent 14 years.



The ornamental design for an automobile bumper, as shown.

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76,798. CLOCK CASE. FREDERICK C. HERBERMANN, Mount Vernon, N. Y. Filed Jan. 14, 1928. Serial No. 24,877. Term of patent 3½ years.



The ornamental design for a clock case, as shown.

76,799. GALOSH. WIARD B. IHNEN, New York, N. Y. Filed Dec. 15, 1926. Serial No. 20,058. Term of patent 3½ years.



The ornamental design for a galosh, as shown and described.

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76,800. CLAMP PLATE. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,616. Term of patent 3½ years.

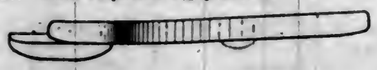


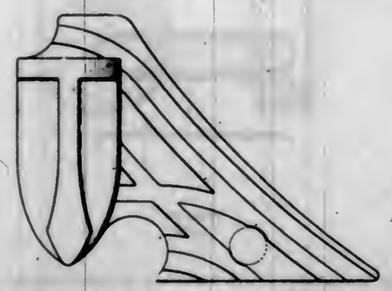


The ornamental design for a clamp plate substantially as shown and described.

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76,801. CLAMP PLATE. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 23, 1927. Serial No. 24,617. Term of patent 3½ years.

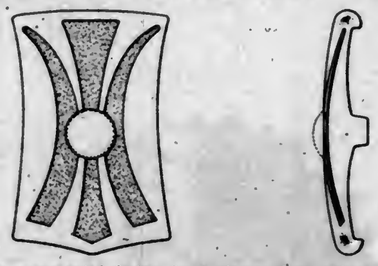




The ornamental design for a clamp plate substantially as shown and described.



76,802. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich. Filed Feb. 8, 1928. Serial No. 25,294. Term of patent 14 years.



The ornamental design for a clamp plate, substantially as shown and described.

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76,803. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,735. Term of patent 14 years.



The ornamental design for a clamp plate, substantially as shown and described.

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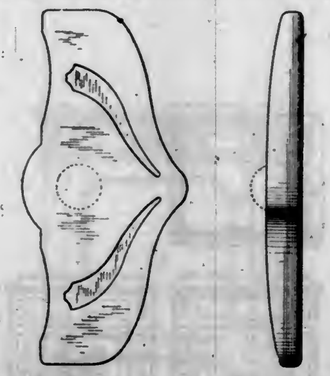
76,804. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,740. Term of patent 14 years.





The ornamental design for a clamp plate, substantially as shown and described.

76,805. CLAMP PLATE. HERBERT S. JANDUS and WILLIAM MEYERHUBER, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,743. Term of patent 14 years.



The ornamental design for a clamp plate, substantially as shown and described.

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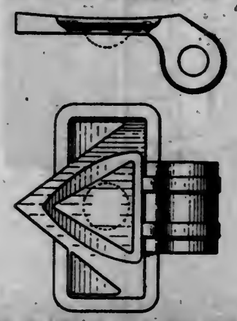
76,806. CLAMP PLATE. HERBERT S. JANDUS and WILLIAM MEYERHUBER, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,744. Term of patent 14 years.



The ornamental design for a clamp plate, substantially as shown and described.

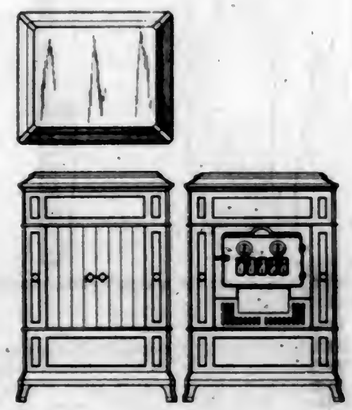
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76,807. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich. Filed Mar. 7, 1928. Serial No. 25,752. Term of patent 14 years.



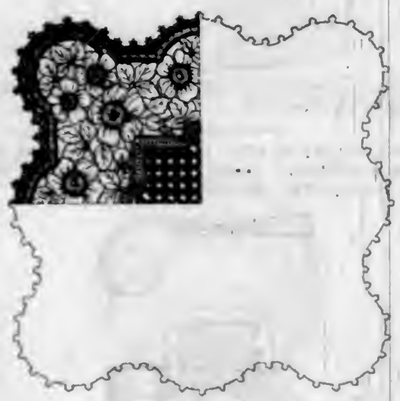
The ornamental design for a clamp plate substantially as shown and described.

76,808. CIRCULATING HEATER. ARTHUR J. JOHNSON and JOSEPH J. MORIARTY. Shakopee, Minn., assignors to American Range Corporation, Shakopee, Minn., a Corporation of Minnesota. Filed July 13, 1028. Serial No. 27,479. Term of patent 3½ years.



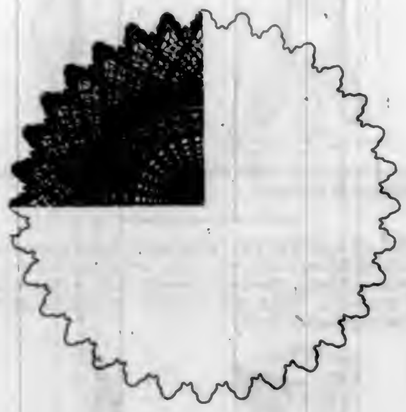
The ornamental design for a circulating heater, as shown.

76,809. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Feb. 25, 1928. Serial No. 25,579. Term of patent 14 years.



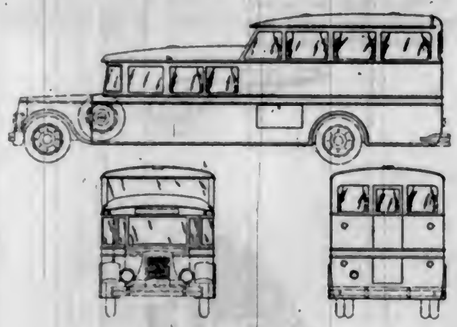
The ornamental design for a doily as shown and described.

76,810. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Feb. 25, 1928. Serial No. 25,581. Term of patent 14 years.



The ornamental design for a doily as shown and described.

76,811. AUTOMOBILE BODY. MINAS H. KASHIAN, Boston, Mass. Filed Mar. 15, 1928. Serial No. 25,866. Term of patent 3½ years.



The ornamental design for an automobile body, substantially as shown.

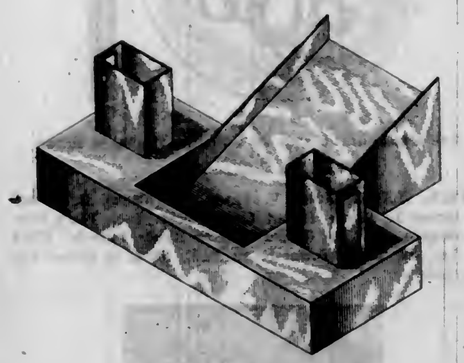


76,812. CABINET FOR RADIO RECEIVING APPARATUS. ARTHUR ATWATER KENT. Ardmore, Pa. Filed Nov. 15, 1926. Serial No. 19,736. Term of patent 14 years.



The ornamental design for a cabinet for radio receiving apparatus, as shown.

76,813. DISPLAY STAND. WILLIAM P. KESEL, New York, N. Y., assignor to Cummings Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 24, 1928. Serial No. 25,008. Term of patent 3½ years.



The ornamental design for a display stand, as shown.

76,814. CABINET FOR SOUND PRODUCING AND REPRODUCING INSTRUMENTS. EUGENE T. KIEFFER, Cheyney, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Oct. 12, 1927. Serial No. 23,728. Term of patent 14 years.



The ornamental design for a cabinet for sound-producing and reproducing instruments as shown.

76,815. CABINET FOR SOUND PRODUCING AND REPRODUCING INSTRUMENTS. EUGENE T. KIEFFER, Cheyney, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Oct. 12, 1927. Serial No. 23,729. Term of patent 14 years.



The ornamental design for a cabinet for sound-producing and reproducing instruments as shown.

76,816. SET OF PLAYING CARDS. OTTO KUBATZKY, Tulsa, Okla. Filed June 14, 1928. Serial No. 27,119. Term of patent 7 years.



The ornamental design for a set of playing cards as shown.

76,817. GLASS TUMBLER. SYLVESTER A. LANGENBAKER, San Francisco, Calif., assignor to Macbeth-Evans Glass Company, Charleroi, Pa., a Corporation of Pennsylvania. Filed Apr. 19, 1928. Serial No. 26,377. Term of patent 3½ years.



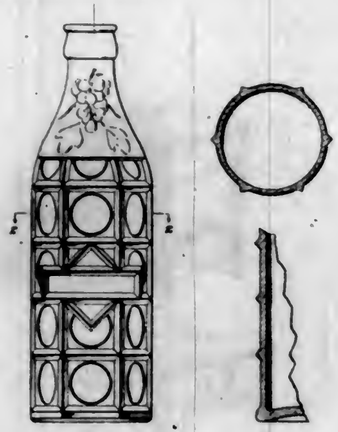
The ornamental design for a glass tumbler, as shown.

76,818. MIRROR OR SIMILAR ARTICLE. EDWIN B. LANGSDORF, New York, N. Y. Filed June 11, 1928. Serial No. 27,072. Term of patent 3½ years.



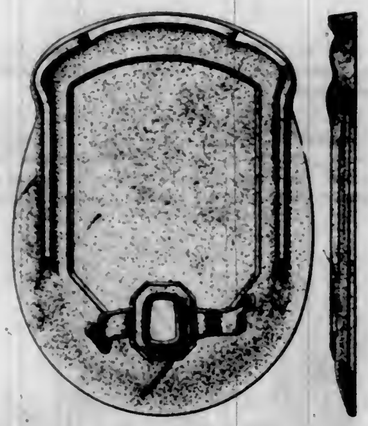
The ornamental design for a mirror or similar article substantially as shown.

76,819. BOTTLE. GEORGE N. MAS, Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Filed July 23, 1924. Serial No. 10,234. Term of patent 14 years.



The ornamental design for a bottle, as shown.

76,820. PICTURE FRAME. JOHN PELLETIER and MICHAEL PELLETIER, New York, N. Y. Filed Dec. 12, 1927. Serial No. 24,454. Term of patent 14 years.



The ornamental design for a picture frame, as shown

76,821. LACE. JOHN V. PRICE, Providence, R. I., assignor to Rhode Island Lace Works, Inc., West Barrington, R. I., a Corporation of Rhode Island. Filed Aug. 22, 1928. Serial No. 27,912. Term of patent 3½ years.



The ornamental design for lace substantially as shown.

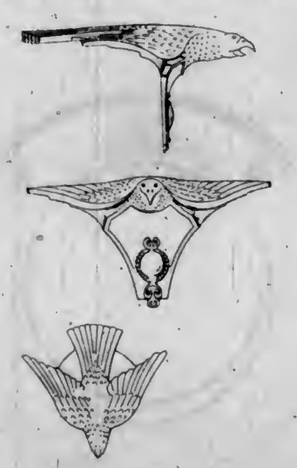


76,822. LACE. JOHN V. PRICE, Providence, R. I., assignor to Rhode Island Lace Works, Inc., West Barrington, R. I., a Corporation of Rhode Island. Filed Aug. 22, 1928. Serial No. 27,913. Term of patent 3½ years.



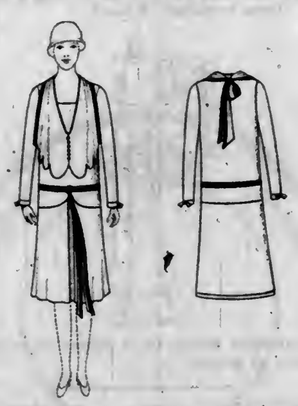
The ornamental design for lace substantially as shown.

76,823. RADIATOR ORNAMENT. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Filed Feb. 27, 1928. Serial No. 25,597. Term of patent 3½ years.



The ornamental design for a radiator ornament, as shown.

76,824. DRESS. MILDRED C. SCHMOLZE, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed May 14, 1928. Serial No. 26,660. Term of patent 3½ years.



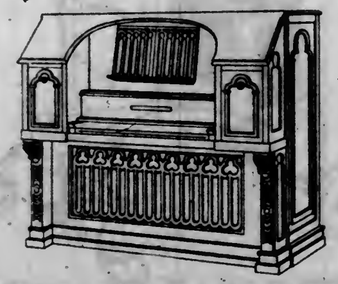
The ornamental design for a dress substantially as shown and described.

76,825. FLOWERPOT HOLDER. IRVING G. SCOTT and MAUD C. FOX, New York, N. Y. Filed July 7, 1928. Serial No. 27,415. Term of patent 3½ years.



The ornamental design for a flowerpot holder as shown.

76,826. ORGAN CABINET. JUSTUS P. SEEBURG, Chicago, Ill. Filed Aug. 1, 1928. Serial No. 27,654. Term of patent 7 years.



The ornamental design for an organ cabinet as shown.

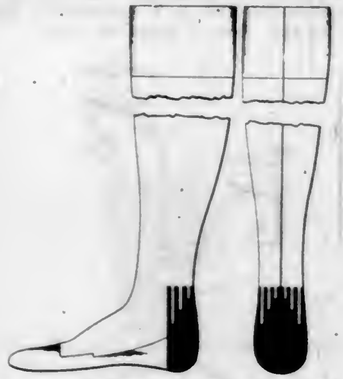
76,827. FAUCET VALVE OR THE LIKE. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,506. Term of patent 14 years.



The ornamental design for a faucet valve or the like, substantially as shown.

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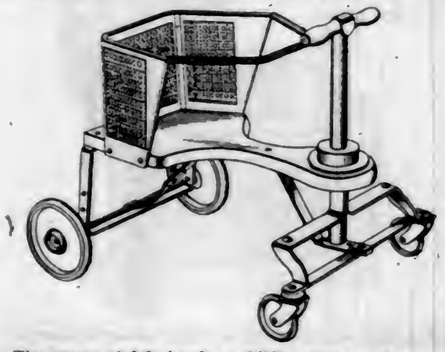
76,828. STOCKING. JAMES A. STRUTHERS, Minneapolis, Minn., assignor to Strutwear Knitting Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 12, 1928. Serial No. 24,836. Term of patent 14 years.



The ornamental design for a stocking substantially as shown.

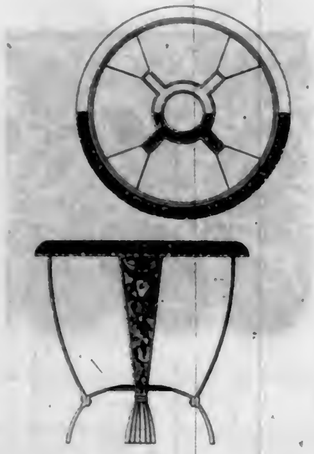
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76,829. CHILD'S VEHICLE FRANK F. TAYLOR, Norwood, Ohio, assignor to The Frank F. Taylor Company, Norwood, Ohio, a Corporation of Ohio. Filed July 18, 1927. Serial No. 22,790. Term of patent 14 years.



The ornamental design for a child's vehicle as shown.

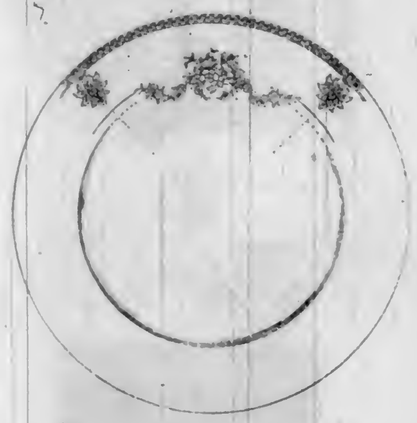
76,830. COFFEE TABLE. JOSEPH TERR, Cleveland Heights, Ohio, assignor to Seville Studios, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 6, 1928. Serial No. 27,722. Term of patent 7 years.



The ornamental design for a coffee table as shown and described.

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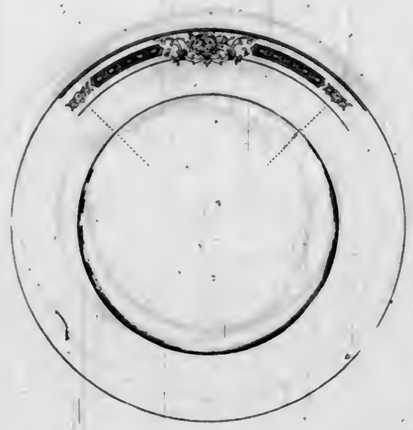
76,831. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,840. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.



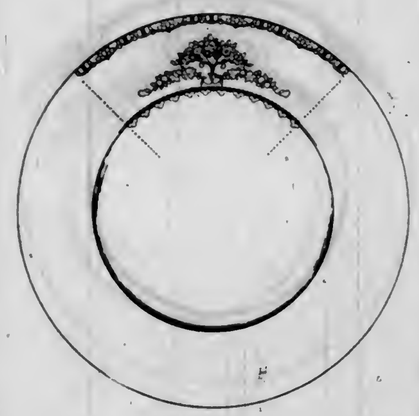
76,832. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,841. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

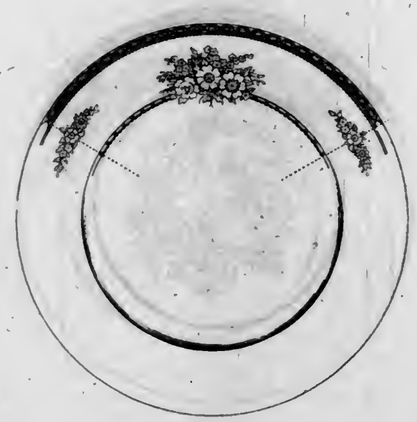
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76,833. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,842. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

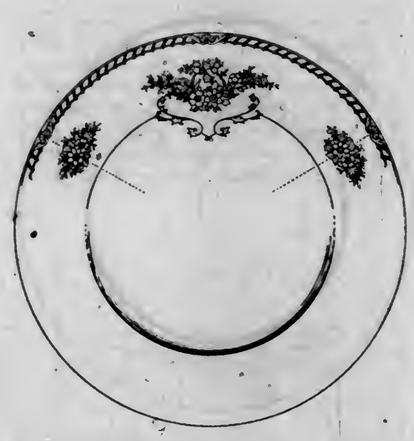
76,834. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,843. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

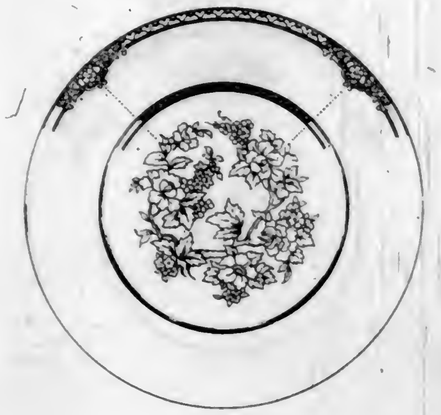
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76,835. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,844. Term of patent 7 years.



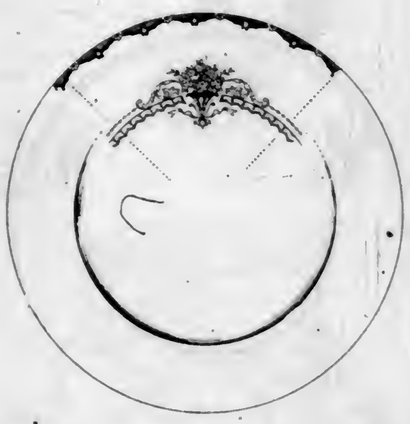
The ornamental design for a plate or similar article, as shown and described.

76,836. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,845. Term of patent 7 years.



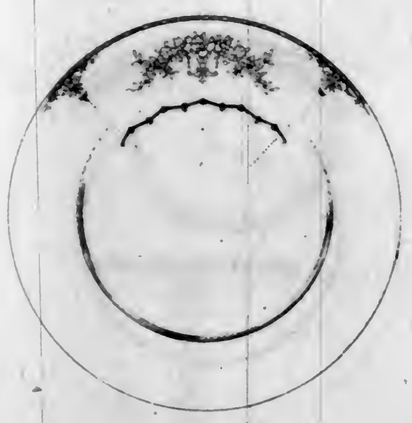
The ornamental design for a plate or similar article, as shown and described.

76,837. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,846. Term of patent 7 years.



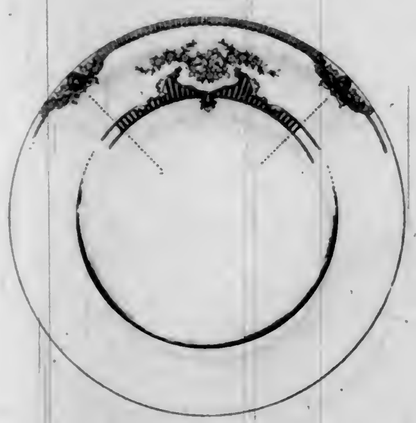
The ornamental design for a plate or similar article, as shown and described.

76,838. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,847. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

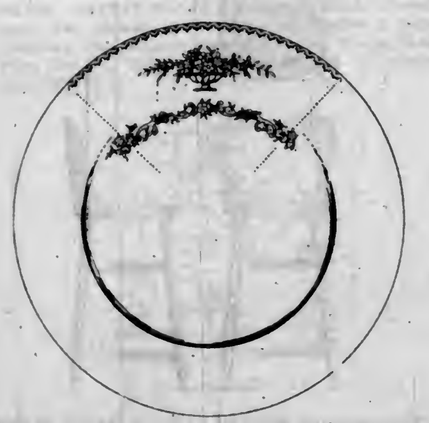
76,839. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,848. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

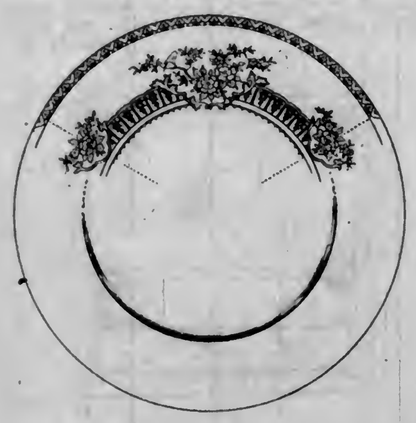


76,840. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,849. Term of patent 7 years.



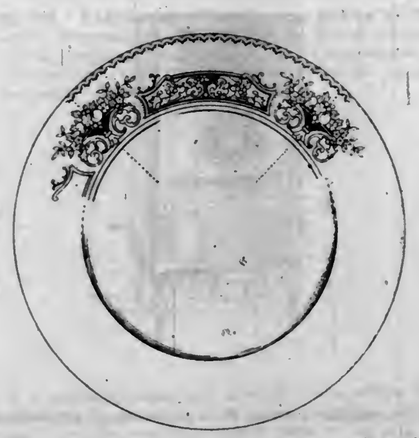
The ornamental design for a plate or similar article, as shown and described.

76,841. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,850. Term of patent 7 years.



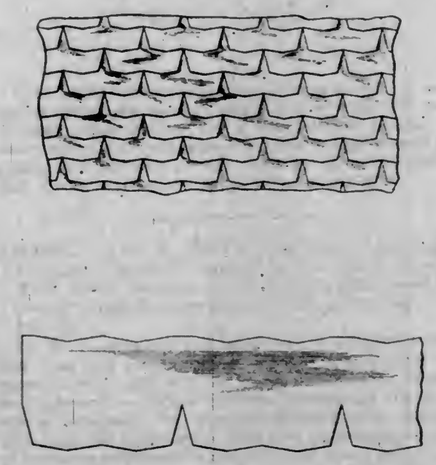
The ornamental design for a plate or similar article, as shown and described.

76,842. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros., Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,851. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,843. ROOF. JOHN A. TOPPING, Bronxville, N. Y. Filed Aug. 10, 1927. Serial No. 23,037. Term of patent 14 years.



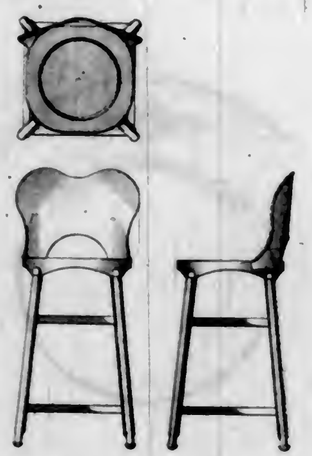
The ornamental design for a roof, as shown.

76,844. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed Sept. 16, 1926. Serial No. 19,078. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

76,845. CHAIR OR THE LIKE. CHARLES ROBERT WRIGHT, Macomb, Ill., assignor to Macomb Manufacturing Company, Macomb, Ill., a Corporation of Illinois. Filed July 27, 1928. Serial No. 27,605. Term of patent 7 years.

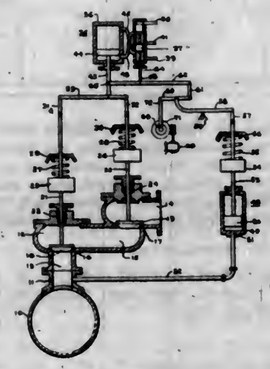


The ornamental design for a chair or the like, as shown.

# PATENTS

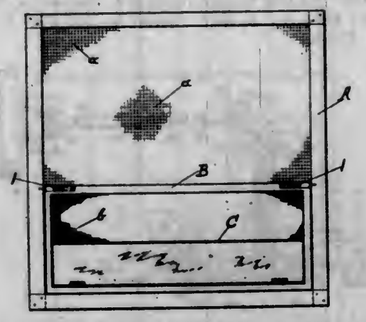
## GRANTED NOVEMBER 6, 1928.

1,690,093. SAFETY VALVE. ROBERT C. ALLEN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 11, 1924. Serial No. 749,288. 15 Claims. (Cl. 137—53.)



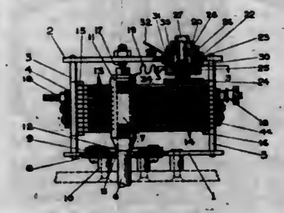
1. In a device for relieving the excess pressure of a fluid contained in a vessel, the combination of an outlet conduit, valve means for opening and closing the conduit, a second valve means for regulating the flow of the fluid upon an opening of said first-mentioned valve means, said second valve means being interposed between the vessel and the first-mentioned valve means, and means responsive to the pressure of the fluid in the vessel for operating both of said valve means.

1,690,094. WINDOW SCREEN. LOUIS G. BEERS, Trenton, N. J., assignor to The New Jersey Wire Cloth Company, Trenton, N. J., a Corporation of New Jersey. Filed Apr. 12, 1927. Serial No. 183,040. 3 Claims. (Cl. 98—99.)



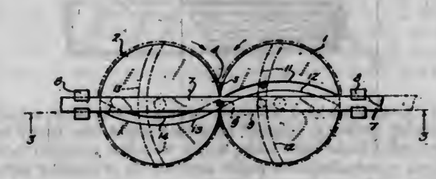

1. The combination with a window screen, of a ventilating screen frame removably mounted in the window screen frame and having screening material of finer mesh than the window screen, said ventilating screen extending vertically over only a portion of the window screen at one end of the window.

1,690,095. VARIABLE CONDENSER. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 1, 1926. Serial No. 151,864. 4 Claims. (Cl. 175—41.5.)



1. A condenser comprising a set of stator plates, a set of rotor plates, an insulated terminal connection for said rotor plates, an auxiliary element mounted on said connection, means to adjust said element initially with respect to one of said stator plates, and means to hold said element in adjusted position.

1,690,096. MECHANICAL MOVEMENT. JOSEPH C. CONN, Boonton, N. J. Filed Dec. 8, 1926. Serial No. 153,238. 10 Claims. (Cl. 74—14.)

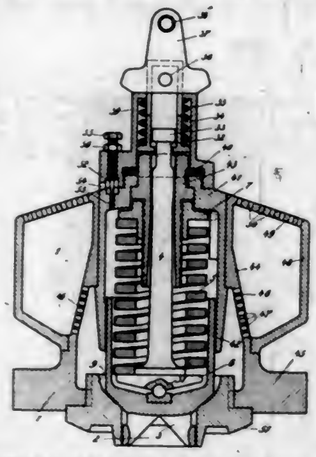


1. A mechanical movement comprising a pair of cams having their axes parallel, means for rotating said cams in synchronous relation, and a cam follower movable between the axes of said respective cams and operatively engaging cam surfaces of both cams in succession during each movement in one direction between said axes.

1,690,097. SAFETY VALVE. GOTTLIEB ACKERMANN, Esslingen, Germany, assignor to the Firm: Brann & Wolff, Berlin, Germany. Filed Mar. 26, 1921. Serial No. 456,046, and in Germany Feb. 13, 1918. 12 Claims. (Cl. 137—53.)

11. In a safety valve, a valve seat, a valve body movable from said seat by excessive pressure, a cylinder surrounding said valve body in spaced relation and combining therewith to form a pressure chamber at the upper side of said body, said pressure chamber being provided with inlet and outlet ports, said inlet ports being adapted to gradually admit only a portion of the steam under pressure from the seat underneath said valve body into said chamber when the valve body is lifted from its seat, means to permit the escape of the remaining portion of said steam into the atmosphere, said ports establishing immediate and permanent communications with said cham-

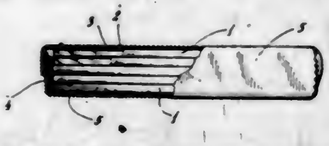
ber during the periods of time when the valve body is lifted from its seat, and being so dimensioned that the steam admitted in the said chamber through said inlet ports is



not immediately reduced in pressure but escapes gradually in such a way that there is produced in said chamber a pressure tending to force back the valve upon its seat.

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1,690,098. CHEWING-GUM PACKAGE AND METHOD OF MAKING THE SAME. PHILIP L. BECKER, Flushing, N. Y., assignor to The American Chicle Company, Long Island City, N. Y., a Corporation of New York. Filed Feb. 17, 1927. Serial No. 168,879. 2 Claims. (Cl. 229—3.1)



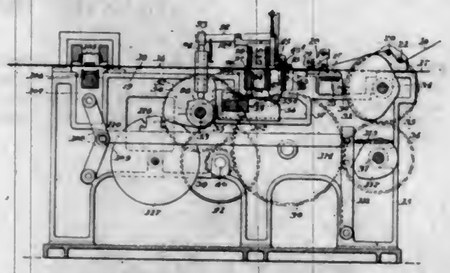
1. A moisture and air tight package comprising a body enclosed within a wrapper of waxed paper, the paper being folded about said body, and a wax-like material completely enveloping said paper and having a melting point relatively less than that of the wax on the paper underlying it.

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1,690,099. LITHOPONE. FRANK G. BREYER, Palmerton, and CLAYTON W. FARBER, Bowmanstown, Pa., assignors to The New Jersey Zinc Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 29, 1926. Serial No. 157,864. 26 Claims. (Cl. 134—78.)

26. The improvement in the manufacture of lithopone which comprises separately preparing and purifying solutions of zinc sulfate and zinc chloride, precipitating the crude lithopone by mixing said purified solutions of zinc sulfate and zinc chloride with barium sulfide solution, establishing in the crude pulp at the endpoint of the precipitating step a predetermined sulfhydrate excess, diluting the resulting crude lithopone pulp with water promptly after the completion of the precipitating step, washing the crude lithopone until the chlorine content of the liquor in which the crude lithopone is suspended does not exceed 0.5 grams per liter, establishing in the liquor in which the crude lithopone is finally suspended after the washing operation a predetermined hydrate content equivalent to 2.5 to 7.0 cc. of 0.25N hydrochloric acid per 250 cc. of filtrate determined by titration of the filtrate from a sample of the pulp, charging the dried crude lithopone to a calcining apparatus with an average moisture content of from about 5 to 8%, and calcining the lithopone at a temperature of about 650 to 725° C.

1,690,100. MACHINE FOR FORMING FABRIC STRUCTURES. GEORGE E. BULL, Belle Vernon, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 25, 1927. Serial No. 194,112. 10 Claims. (Cl. 140—3.)



2. Apparatus for attaching a backing sheet to a mesh sheet, comprising means for slitting the backing sheet at a plurality of points, means for deflecting portions intermediate said slits through the mesh sheet, and means for inserting a retaining member between such deflected portions and the adjacent side of the mesh structure.

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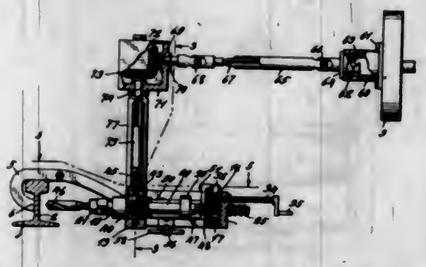
1,690,101. SOLDERING TOOL. FRANK B. BURNS, Chicago, Ill. Filed Oct. 28, 1926. Serial No. 144,082. 1 Claim. (Cl. 219—26.)



A tool of the character described, consisting of a long metal tube which is exteriorly threaded and slotted at one end, an electric cord connected with the other end of the tube, a handle of insulating material sleeved over the tube and the cord and covering the connection therebetween, a carbon point seated within and projecting from the threaded and slotted end of the tube, and a nut screwed over the tube about the carbon point and constructed in such a way as to cam the slotted portions of the tube radially inward into clamped engagement with the point, said threaded and slotted end of the tube being counterbored for a short distance to provide an abutting shoulder for the inner end of the point and render the slotted clamping portions of the tube about the point thin and flexible.

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1,690,102. TRACK DRILL. JAMES L. CHRISTIAN, Denver, Colo. Filed Oct. 9, 1926. Serial No. 140,480. 1 Claim. (Cl. 77—8.)

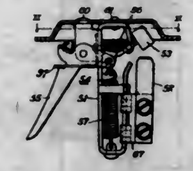


A power operated track drill comprising, in combination, a substantially rectangular framework having a closed compartment at one end, a two-part shaft extending through said framework, a worm wheel within the compartment, said gear being slidably but nonrotatably connected with the shaft, a cover member removably secured to the framework and forming one side of said compartment, a worm journaled in a bearing in the cover and operatively associated with the worm wheel, one part of said shaft having a chuck for holding a drill and the other being provided with threads, means for keeping the threaded end from rotating, a nut secured to the threaded end and means for rotating said nut when the worm wheel rotates the shaft, said means comprising a step by step mechanism.

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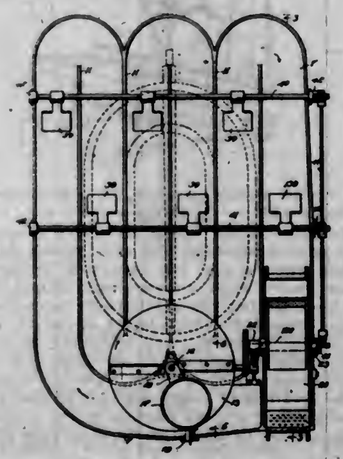
1,690,103. ELECTRIC SWITCH. EMERSON L. CLARK, Pittsburgh, Pa., assignor to Syntron Company, a Corporation of Delaware. Filed June 3, 1924. Serial No. 717,468. 12 Claims. (Cl. 200—67.)



1. A snap switch adapted to be enclosed in the hollow handle of a portable tool, comprising a pivoted toggle link having a manually engageable operating arm angularly related with respect to said handle, a free link pivoted at or adjacent the end of said toggle link, a movable contact member carried by said free link, stationary contact members adapted to be bridged by said contact member, over-center spring mechanism connected to said links for moving said movable contact member into engagement with said stationary contact members upon actuation of said operating arm, and means for biasing said movable contact member from said stationary contact members and for moving said operating arm with respect to said handle.

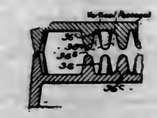
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1,690,104. FRYING MACHINE. EMIL A. DENZ, JAMES T. KELLEY, and JOHN E. TITUS, Chicago, Ill.; said James T. Kelley and John E. Titus assignors to said Emil A. Denz. Filed Mar. 2, 1927. Serial No. 172,051. 3 Claims. (Cl. 53—7.)



1. A cooking machine comprising a vessel having a non-endless meandering channel having the ends adjacently disposed, means for depositing loose particles of food into one end of the channel, and dipping means for dipping cooking-fluid out of the other end and pouring the fluid in surges into the one end to start the food to move through the channel and to regulate the flow of the fluid.

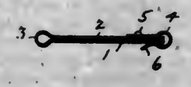
1,690,105. GAS BOILER. EDWARD R. DOWNE, Larchmont, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1925. Serial No. 59,442. 10 Claims. (Cl. 122—225.)



1. A boiler of the character described comprising a plurality of water containing sections forming flues therebetween, and a plurality of relatively small tapering projections distributed over the opposing walls of said flues and extending into the path of the hot gases and products of combustion passing therethrough, and serving to divide each flue into a series of uninterrupted vertical passages, each of whose area in cross-section is relatively wide at its intermediate portion and tapering towards the opposite ends thereof; and in which the ratio of a rectangular area of said flue wall whose sides are tangent to the outermost rows of projections, together with the area of its said projections, is about 1.33 times the area of the corresponding rectangular area of inner wall surface, substantially as specified.

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1,690,106. HAIR CLAMP. HELEN E. DOWNS, Los Angeles, Calif. Filed Jan. 23, 1928. Serial No. 248,691. 1 Claim. (Cl. 132—41.)



A hair clamp comprising a cylinder at one end and two integral resilient jaws projecting from said cylindrical end and having their free ends normally apart, a retainer pivoted to one of said jaws and having an outwardly projecting curved lip at one end adapted to project over the jaws and draw them into the closed position.

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1,690,107. ELEVATING APPARATUS. HENRY S. GERMOND, Jr., Bayonne, N. J. Filed Oct. 6, 1927. Serial No. 224,378. 6 Claims. (Cl. 187—11.)

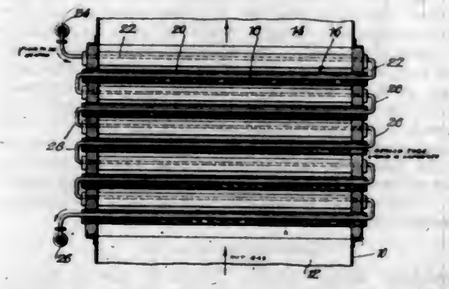


5. Elevating apparatus comprising a frame, a load-carrying platform mounted to move thereon, power-driven means for moving said platform, power-controlling means for regulating the application of power to said power-driven means, a shaft, a drum fast mounted on said shaft,

a cable movable on said frame and wound around said drum so that movement of said cable rotates said drum, cooperating means on said platform and said cable so that the cable will be moved by said platform at certain points in the movement of said platform in opposite directions, and operative connection between said shaft and said power controlling means, whereby said drum may be rotated by said cable to actuate said power-controlling means to regulate the power supplied to said power-driven means.

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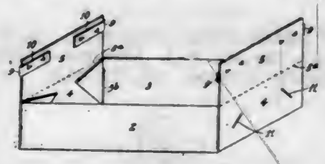
1,690,108. HEAT EXCHANGER. CHARLES B. GRADY, West Orange, N. J. Filed Oct. 30, 1924. Serial No. 746,736. 9 Claims. (Cl. 257—247.)



1. A heat exchanger comprising a plurality of containers each carrying a liquid in its lower portion which is exposed to the hot medium to be cooled and adapted to carry a vapor generated from said liquid in an upper portion which is exposed to the cool medium to be heated, and pipes arranged to carry the cool medium and in contact with said vapor in the successive containers.

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1,690,109. COLLAPSIBLE BOX. RALPH A. GROSS, Lititz, Pa., assignor to Simplex Paper Box Co., Lititz, Pa., a Corporation of Pennsylvania. Filed Nov. 4, 1926. Serial No. 146,079. 11 Claims. (Cl. 229—34.)

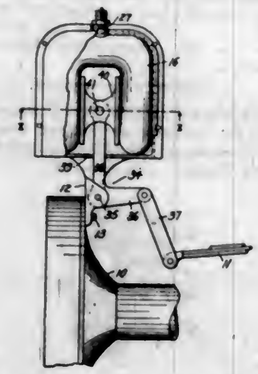


1. A knockdown box comprising a blank, having a body portion, side flaps, end flaps, locking flaps connected to the outer edges of the end flaps and adapted to fold upon the same, and connection between the side flaps and end flaps for raising the side flaps into and holding them in operative position when the end flaps are raised, the inner faces of the side flaps and the opposite ends of the locking flaps being provided with portions adapted to interlock automatically by the folding of the locking flaps upon the end flaps when the latter are in raised position to hold the box in operative position.

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1,690,110. PNEUMATIC SHOCK ABSORBER. JOHN ALLEN HEANY, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed May 25, 1922. Serial No. 563,650. Renewed Sept. 20, 1926. 11 Claims. (Cl. 267—35.)

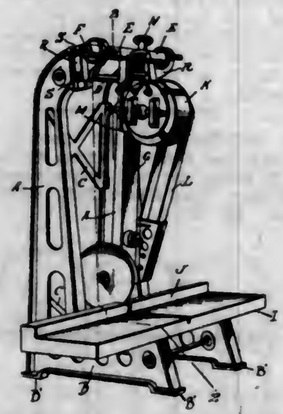
1. In a shock absorber for vehicle spring suspensions, an inner U-shaped flexible air container, an outer flexible casing therefor, a member pivotally mounted on one of two relatively movable parts in said vehicle spring suspension, said member having a plurality of arms, one of which is connected with the other of said relatively movable parts and the other of which is located between opposite parts of said outer U-shaped container casing, and



a rectilinearly moving compressing element connected with said last mentioned arm and operated thereby for engagement with said air container.

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1,690,111. SAWING MACHINE. LORENZO R. HESTON and ARNER L. ANDERSON, Fairfield, Iowa. Filed Apr. 2, 1925. Serial No. 20,164. 2 Claims. (Cl. 143—46.)



2. In portable sawing machines, the combination of a pair of frame members spaced apart and held in approximately parallel relation to each other, said members being of integral construction, and each member having a horizontally disposed base and an upward vertically extended portion, the upper and lower edges of said horizontal base being substantially parallel with each other, and their outer lower ends being adapted to come in contact with a suitable support to assist in holding the machine in position; means connected to the upper ends of the vertically extended portions of the frame to support and permit the operation of a swinging circular saw, and the horizontally extended lower portions of the frame members being adapted to support the material to be sawed.

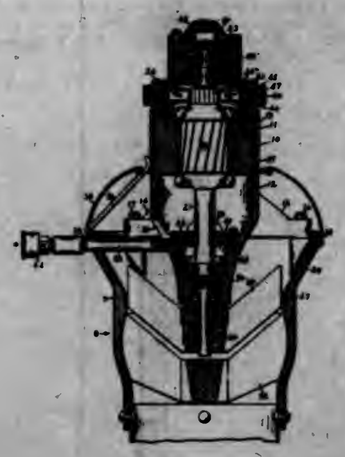
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1,690,112. UNDERGRATE DRAFT BLOWER. HENRY C. HOOK, Bridgeport, Conn., assignor to International Fuel Service Corporation, Bridgeport, Conn. Filed June 13, 1927. Serial No. 198,518. 7 Claims. (Cl. 230—117.)

1. In a draft blower, a vertical fan casing, a vertical motor mounted on said casing, and having a rotary shaft



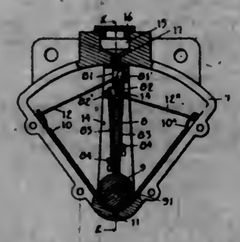
extending downwardly into said fan casing, a fan on said shaft and within said casing, a screen between said motor and said casing, said motor being partly carried within but spaced from said casing to provide an intake



for said fan, the motor casing above said screen being dust-tight, and said motor casing being provided with openings therein below said screen and within said fan casing.

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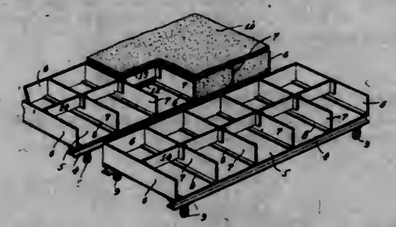
1,690,113. SPRING SNUBBER FOR AUTOMOBILES. GORDON B. HOOTON, Grand Rapids, Mich. Filed Mar. 17, 1927. Serial No. 176,101. 4 Claims. (Cl. 188—89.)



1. In a spring snubber for vehicles, the combination with the frame or chassis of the vehicle, of a cylinder casing secured thereto, with a triangular recess therein, an oscillating piston with a bearing shaft disposed in the angle of said recess, with double ports with oppositely opening valves, springs on opposite sides of said vane to hold said valves yieldingly in place, locating means for supporting said springs in operative relation on opposite sides of said vane, the said springs being positioned to be compressed by the oscillation of said vane from side to side whereby the pressure is increased on said springs and the valve resistance and hydraulic pressure on the vane consequently increased for control of the vehicle spring, and a rocker arm secured to the said shaft and extended to the axle or running gear whereby the action of the vehicle spring is snubbed, regulated and controlled.



1,690,114. METHOD OF COLLECTING SPRAY DRIED LATICES. RUSSELL HOPKINSON, New York, N. Y., assignor to General Rubber Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 9, 1926. Serial No. 140,514. 4 Claims. (Cl. 18—50.)



1. The method of recovering solids from fluid materials which form a coherent dried deposit, which comprises atomizing the material in the presence of a drying medium, collecting the dried deposit as substantially separate units of predetermined area, and compacting said units.

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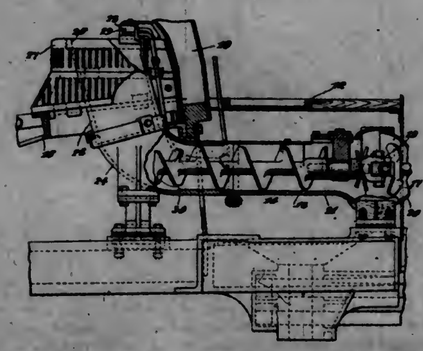
1,690,115. METHOD OF MAKING SHOE SOLES. THOMAS B. HURSTIS, Bristol, R. I., assignor to National India Rubber Company, Bristol, R. I., a Corporation of Rhode Island. Filed July 8, 1927. Serial No. 204,245. 6 Claims. (Cl. 12—146.)



1. The method of forming shoe soles which comprises forming in sheet material an opening of at least the outside width of a shoe sole shank, assembling the sheet material and a foundation of sheet material to form a plied unit, and forming from the unit a shoe sole by cutting through the said opening.

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1,690,116. STOKER CONSTRUCTION. ANDREW M. HUNT, New York, N. Y., assignor to Standard Stoker Company, Incorporated, a Corporation of Delaware. Filed Jan. 27, 1925. Serial No. 5,025. 5 Claims. (Cl. 110—101.)

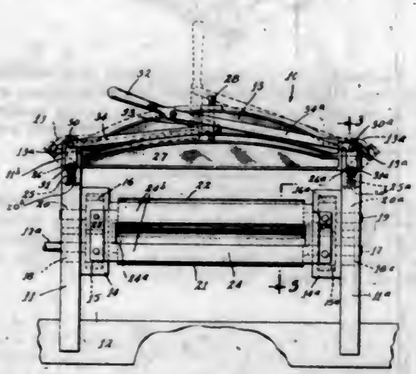


1. In a locomotive stoker, a forwardly extending conduit which terminates in an elbow, a conveyor screw in said conduit and an upwardly extending unobstructed conduit

adapted to receive coal from said first named conduit and deliver the same to the fire box, the conveyor screw being formed at its delivering end with a plurality of threads delivering the material in a generally axial direction at their ends so as to cooperate with said elbow to give a substantially continuous upward pressure on the material and cause a continuous advance of coal through said upwardly extending conduit.

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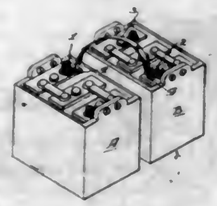
1,690,117. CLOTHES WRINGER. LOUIS JUDELSON, New York, N. Y. Filed Apr. 22, 1925. Serial No. 24,931. 4 Claims. (Cl. 68—32.)



1. A wringer comprising a frame, wringer rolls carried in said frame, means for retaining said rolls in contact with each other, and means to actuate said retaining means into operative or inoperative condition, said actuating means including linkage connected to said retaining means and to said frame, and a handle forming part of the linkage to actuate the linkage.

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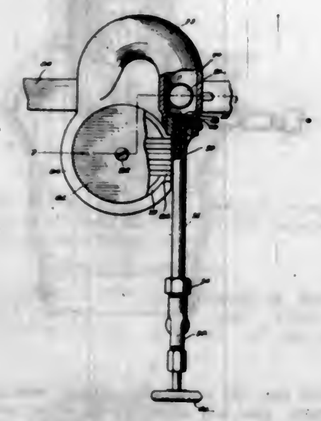
1,690,118. BATTERY CONNECTER. FRED G. JULYAN, Euclid, Ohio, assignor to Auto Mechanical Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 21, 1926. Serial No. 110,645. 2 Claims. (Cl. 173—324.)



1. The combination of a battery connecter comprising a flat resilient metal strip having notched ends with the notches opening oppositely and outwardly, and a pair of approximately parallel up-standing battery terminals engaged by said notches respectively, the resilient middle portion being bent out of the line connecting said terminals for exerting a yielding pressure through the notched ends against the terminals, and the end portions of the strip being initially bent away from the plane of the middle portion both at the same side of said plane, whereby they are substantially aligned in a common plane when the middle portion is bent.
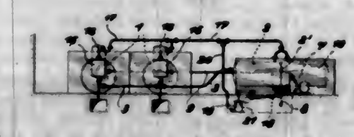
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1,690,119. PROCESS AND APPARATUS FOR BURNING LIQUID FUEL. JOHN M. KELLEY, Rochester, N. Y., assignor, by mesne assignments, to The Protane Corporation (1926). Filed June 18, 1923. Serial No. 645,945. 7 Claims. (Cl. 158—61.)



1. The process which consists in expanding into a chamber a liquid hydrocarbon fuel having a dry end point not in excess of 150° F. and an initial boiling point of approximately 45° F. or lower and which will not develop a pressure in excess of 50 pounds at 100° F., discharging the expanded fluid from the chamber and permitting it to further expand, applying sufficient heat at the point of escape from the chamber to prevent congealing of the moisture of the atmosphere at the orifice, mixing the expanded fluid with air, and conducting a portion of the mixture to the heated area for ignition.

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1,690,120. STEAM-GENERATING SYSTEM. CLEMENS KIESSELBACH, Bonn, Germany. Filed Mar. 8, 1923, Serial No. 623,682, and in Germany Mar. 11, 1922. 16 Claims. (Cl. 122—35.)



1. The combination, with a steam boiler, of an accumulator receptacle in communication with the steam space of the boiler and having feed and return connections with the boiler and forming therewith a closed circuit in which the accumulator is under boiler pressure, the return connection from the boiler to the accumulator communicating with the boiler at a point between the high and low water levels, means to circulate water from said accumulator through said feed connection to the boiler and through said return connection from the boiler back to the accumulator, said return connection having a damming action and coacting with said water circulating means to maintain a water level at least equal to low water level in the boiler, and means for supplying water from a source of supply to the accumulator without interrupting the flow of water between the accumulator and the boiler.



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1,690,121. BRAKE METER. AUGUST KLIMEK, Chicago, Ill. Filed Dec. 3, 1926. Serial No. 152,382. 9 Claims. (Cl. 116—114.)



3. A brake meter connectible with an arcuate brake band having a friction surface, a piston operated by the contraction and expansion of the band, a cylinder cooperating with the piston and connected to the band, indicating means, and means actuated by the relative movement of the piston and cylinder for operating the indicating means.

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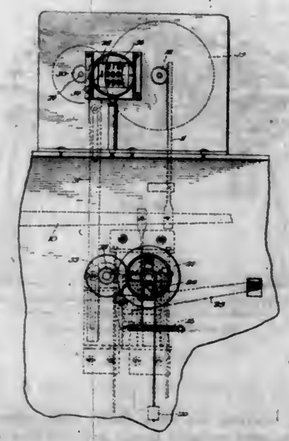
1,690,122. GRAMOPHONE. HEINRICH J. KOCHENMEISTER. Berlin, Germany. Filed July 18, 1925. Serial No. 44,462, and in Germany July 23, 1924. 4 Claims. (Cl. 274—23.)



4. In a sound reproducing machine for operation by a plurality of sound boxes having their styli simultaneously engaged in the same record groove, a plurality of sound boxes movable about separate pivots, brackets attached to said sound boxes, a movable guide arm, a slide adjustable along said arm, a rocker arm connected to said slide, and links pivotally connecting the ends of said rocker arm with said brackets.

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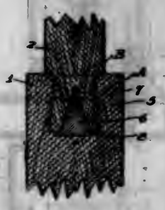
1,690,123. WEIGHING SCALE. OTTO MALCHER, Chicago, Ill. Filed Feb. 2, 1924. Serial No. 690,134. 28 Claims. (Cl. 265—48.)



1. A weighing scale comprising a rotary disc having numerals on a flat face thereof for indicating weights, a second rotary disc arranged adjacent said first disc and having numerals on a flat face thereof to be read in conjunction with the numerals on said first dics and weight controlled means for rotating said first mentioned disk.

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1,690,124. JOINT FOR FURNITURE AND THE LIKE. CHARLES D. MCARTHUR, Berkeley, Calif. Filed Mar. 19, 1928. Serial No. 262,874. 1 Claim. (Cl. 20—92.)



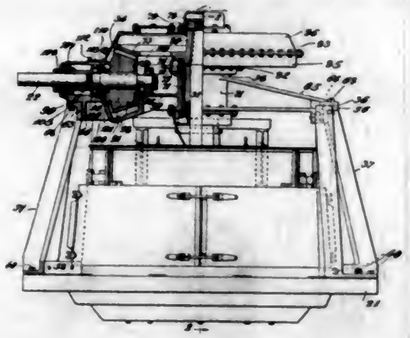
In combination in a joint, a socket member having a socket therein which extends inward with a straight wall for a portion of the depth of the socket and then tapers outwardly for the remaining portion of such depth, a tenon member fitting the socket, and a solid wedge member of metal of general conical shape having its base engaging the bottom of the socket and penetrating the tenon so that it is spread out and fills the tapering portion of the socket, said wedge having a nail point and a base larger in diameter than the base of its conical portion.

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1,690,125. GRINDING MILL. CHARLES E. NEEDHAM, Allentown, Pa., assignor to Bethlehem Foundry & Machine Company, a Corporation of Pennsylvania. Filed Feb. 2, 1925. Serial No. 6,520. 27 Claims. (Cl. 83—45.)

4. In a centrifugal grinding mill having a grinding chamber, grinding rolls movable in said chamber, a vertical

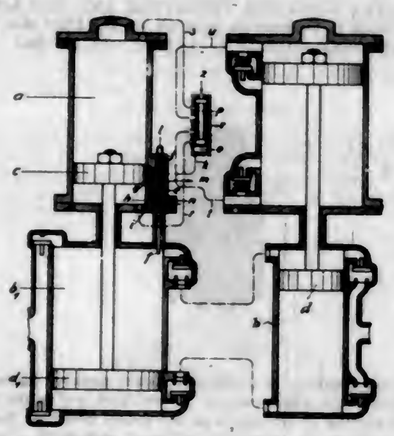
shaft for moving said rolls, a base casting, interchangeable uprights secured to said base on opposite sides of said grinding chamber, and an overhead structure forming a



supporting bearing for said shaft, said structure being supported on said uprights in one position and being adapted to be supported on said uprights in a reverse position.

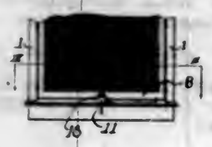
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1,690,126. RECIPROCATING ENGINE. WALTER NIELEBOCK, Nowawes, near Berlin, Germany. Filed Feb. 9, 1924, Serial No. 691,814, and in Germany Feb. 23, 1923. 3 Claims. (Cl. 121—108.)



1. In a fluid-controlled system for double-acting reciprocating piston compound engines, the combination of a source of motive fluid, high and low pressure cylinders, a high pressure piston in the high pressure cylinder, a low pressure piston in the other cylinder, an auxiliary slide valve having an extension projecting into said low pressure cylinder, said auxiliary slide valve being moved in one direction only by contact of said low pressure piston with said extension and in the other direction by motive fluid from said source, and a main valve controlled by the said auxiliary slide valve and distributing the fluid to the cylinders.

1,690,127. DEVICE FOR ADJUSTING CASEMENT WINDOWS. WINSLOW R. PARSONS, San Diego, Calif. Filed Feb. 3, 1926. Serial No. 85,614. 1 Claim. (Cl. 268—117.)



The combination with a window frame, of a sash hingedly mounted thereto, a sectional rod pivotally secured to said sash, a bracket stamped from sheet metal to define upstanding sides, secured to said window frame, there being aligned tapered slots in said upstanding sides to slidably receive said rod, and an adjustable screw associated with said bracket to selectively wedge said rod in said slot.

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1,690,128. PROCESS FOR PREPARING CINCHOPHEN. RICHARD PASTERNACK, Brooklyn, N. Y., assignor to Charles Pfizer & Company, Brooklyn, N. Y., a Corporation of New Jersey. Filed Apr. 21, 1927. Serial No. 185,069. 1 Claim. (Cl. 260—39.)

Process of preparing cinchophen consisting in simultaneously adding substantially molecular proportions of anilin, 30% aqueous solution of pyruvic acid, and benzaldehyde to boiling alcohol at about 100° C.

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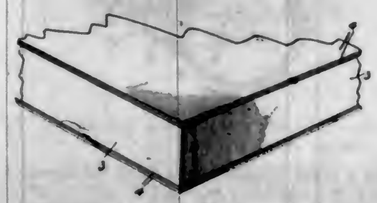
1,690,129. SEPARABLE BUTTON. LOUIS W. PRENTISS, Fort Myer, Va. Filed May 7, 1928. Serial No. 275,952. 6 Claims. (Cl. 24—90.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. A separable button comprising a head in the nature of an insignia, a pair of shanks projecting from the head, a base, coacting means in connection with said base and shanks to detachably engage the base with said shanks, a background removably positioned upon the shanks between the base and head and means carried by the shanks and cooperating with the background to prevent relative movement of the latter with respect to said head.

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1,690,130. DESK TOP. BAYARD E. RICHARDSON, Grand Rapids, Mich. Filed Dec. 13, 1926. Serial No. 154,560. 4 Claims. (Cl. 20—91.)



2. A top of the class described comprising, a core of uniform thickness of magnesium oxychloride, wood bands glued to the edges of the core, and wood veneers glued to the upper and lower sides of said core and to the upper and lower sides of the bands.

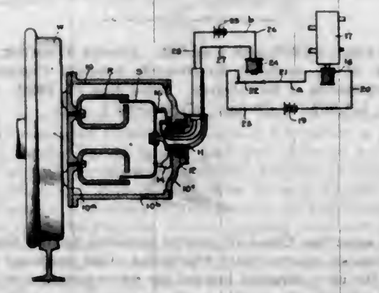


1,690,131. FOOD PRODUCT IN FORM OF DRY POWDER AND METHOD OF MAKING THE SAME. FLOYD W. ROBISON, Detroit, Mich. Filed Mar. 23, 1927. Serial No. 177,839. 7 Claims. (Cl. 99—11.)

6. The new product, a substantially dry powder in crystalline form secured by drying the following ingredients—namely, a quantity of natural fruit juice, sugar in quantity sufficient to secure self-preservation of the mass, concentrated acids and pectin of the fruit, and additional natural fruit flavor in quantity proportional to the excess sugar content, and coloring matter providing a mass capable of reconstitution with water to provide a palatably sweet liquid with the fruit flavor, acid and pectin normal to the volume as reconstituted.

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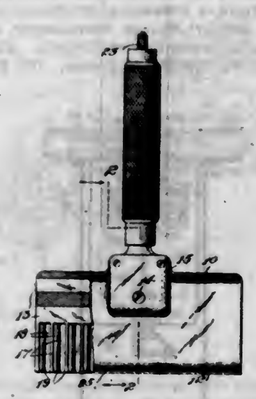
1,690,132. SPEED-CONTROL MECHANISM. FRED M. ROSENZWEIG, Niagara Falls, N. Y., assignor to The Regan Safety Devices Company, Inc., New York, N. Y., a Corporation of New York. Filed June 14, 1924. Serial No. 719,948. 17 Claims. (Cl. 246—182.)



1. In a vehicle control mechanism, the combination with a wheel of the vehicle, of a speed controller comprising a relatively movable section connected to said wheel and carried thereby and a relatively stationary section inductively related to the relatively movable section.

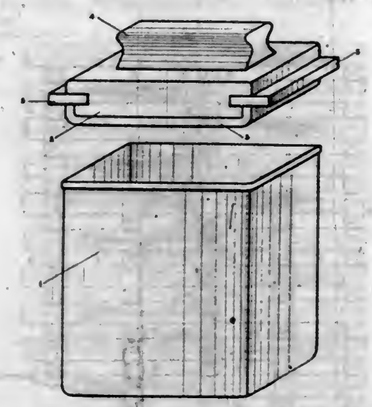
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1,690,133. SHAVING IMPLEMENT. JACOB SCHICK, Stamford, Conn. Filed Mar. 24, 1927. Serial No. 177,885. 7 Claims. (Cl. 30—12.)



1. A shaving implement comprising a set of opposed fingers, a support for said fingers and disposed so as to permit movement of at least one set so that they will co-operate with the other set to form nippers operating in the same plane, and means for causing said movement.

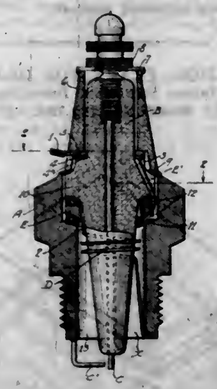
1,690,134. ERASING DEVICE. MARTIN ADOLF SCHMIDT, Lyndhurst, N. J., and CURT ERNST WUNDERLICH, Brooklyn, N. Y. Filed Mar. 28, 1927. Serial No. 177,735. 4 Claims. (Cl. 120—40.)



1. An erasing device for removing dirt and pencil marks, comprising a quantity of "rubber-flakes" of the character described.

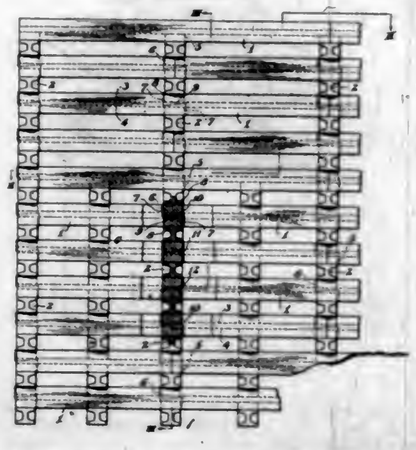
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1,690,135. ELECTRICALLY-HEATED SPARK PLUG. HERMAN D. SEEKAMP, St. Louis, Mo. Filed Nov. 14, 1924. Serial No. 749,900. 3 Claims. (Cl. 123—169.)



1. An electrically heated spark plug, comprising a metallic body part provided with a center bore that is enlarged at its upper end to form a shoulder, an insulator in said body part provided with a laterally-projecting portion that overhangs said shoulder, an electrode projecting downwardly through said insulator, an electrically-operated heating element composed of a few coils of wire surrounding said insulator and arranged in the center bore of the body part at a point far enough away from the end of said electrode to prevent said heating element from becoming excessively heated by the spark produced by the plug, a gasket arranged between the shoulder on the body part and the laterally-projecting portion of the insulator, an annular conducting member formed from a metal that has a higher co-efficient of expansion than the body part of the plug connected to said heating element and arranged in engagement with said gasket, and an electrical conductor leading upwardly from said conducting member through a groove on the exterior of the insulator and connected at its upper end to a contact or terminal mounted on the insulator above the metallic body part of the plug.

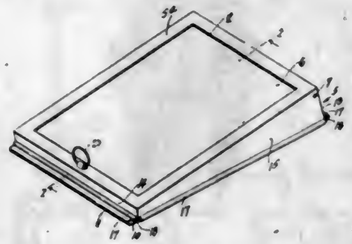
1,690,136. RETAINING-WALL STRUCTURE. JOHN W. SHIMEK, Lakewood, Ohio, assignor to The R. C. Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 13, 1926. Serial No. 154,320. 5 Claims. (Cl. 61—47.)



1. A crib retaining wall structure comprising a plurality of horizontal series of interlocked stretchers and headers in which the distances between the opposed faces of the respective pairs of adjacent vertically-aligned headers vary, and cooperating reversely arranged wedge blocks interposed between adjacent headers.

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1,690,137. HOLDING FRAME FOR DRAWINGS AND THE LIKE. ISIDOR SHULMAN, Brooklyn, N. Y. Filed Oct. 29, 1927. Serial No. 229,785. 2 Claims. (Cl. 45—131.)



1. In a drawing frame adapted to hold a plurality of sheets superimposed upon one another, a table, a hinge pin portion integral with the table at one end thereof, a wall depending from the opposite end of the table and integral therewith, a base portion integral with and bent at an angle to the wall, a frame hingedly mounted on the table and provided with an opening in the top wall thereof, depending front, rear and side walls on the frame integral with the top wall, a bead on each of the depending walls, a reinforcing wire frame in the beads, and a bead on the table base coacting with the bead on the front wall of the frame to form locking means between the table and frame.

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1,690,138. APRON. VICTOR R. SLADEK, Chicago, Ill. Filed May 16, 1927. Serial No. 191,614. 1 Claim. (Cl. 2—51.)

An electric worker's apron comprising a sheet of pliable heat resisting material constituting the body portion adapted to extend from the wearer's neck to below the waist with an outer smooth uninterrupted surface, sleeves of similar material, an upstanding neck-band portion, thongs secured to the upper portion of the body portion adapted to pass oppositely around the wearer's neck, loops,



secured to the upper end of the body portion, through which the thongs are adapted to pass, and thongs secured to body portions adjacent to the wearer's waist-line.

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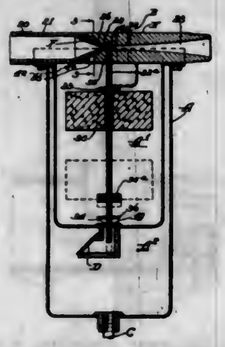
1,690,139. EYEGLASS FRAME. JOSEPH J. SMITH, Newark, N. J., assignor to Newark Novelaid Company, a Corporation of New Jersey. Filed May 27, 1926. Serial No. 111,955. 1 Claim. (Cl. 88—47.)



An eye-glass frame of plastic material having lens rim portions of substantially triangular cross sectional shape with the apex directed toward the outer peripheries thereof, the rearward angular portions coincident to the rearward lateral peripheries of said rim portions and including said outwardly directed apex portions consisting of transparent material, and the front angular portion coincident to the forward lateral peripheries of said rim portions consisting in a translucent demi-amber section, all whereby light traversing said rim portions toward the eyes of the wearer is diffused and softened while a definite conventional appearance of the frame is retained.

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1,690,140. VACUUM-OPERATED LIQUID-LIFTING DEVICE. THOMAS FREDERICK SPACKMAN, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 16, 1927. Serial No. 206,289. 8 Claims. (Cl. 103—236.)

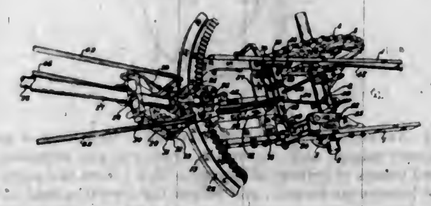


1. In combination with a receptacle for liquid, a fitting mounted on the receptacle having extending through it a Venturi-shaped passage adapted for connection at one end with means for inducing air flow through the passage, and having between the entrance end and the Venturi constriction a lateral communication with the liquid chamber of the receptacle, a valve positioned for closing the Venturi passage without closing its communication with the liquid chamber, and means controlled by the liquid content of the chamber for opening and closing said valve.



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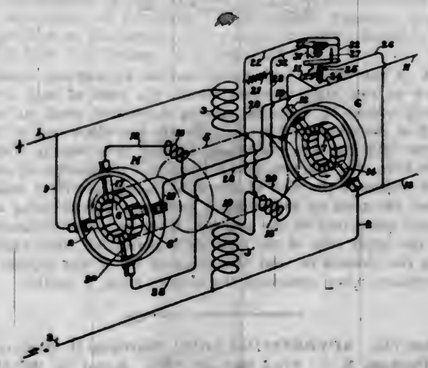
1,690,141. TRACTOR. CHARLES C. STEDMAN, Cleveland, Ohio, assignor to The Central Tractor Company, Greenwich, Ohio, a Corporation of Ohio. Filed Feb. 3, 1927. Serial No. 165,616. 4 Claims. (Cl. 180—12.)



1. In combination with a tractor and an implement pivotally connected thereto by means of a drawbar, a gear segment carried by the tractor and located in an arc described around the pivotal center and adapted to support the drawbar and permit oscillation thereof around the pivotal center, a steering column carried by the drawbar, a pinion upon the steering column meshing with said gear segment, a plurality of links pivotally mounted upon the tractor is swung in horizontal paths, a rod operatively connecting each link with one of the controls of the tractor and a second rod pivoted normally in vertical alignment with the pivotal connection between the tractor and draw bar to each link and leading to the steering column.

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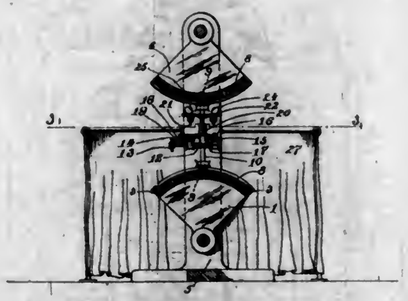
1,690,142. REGULATING DYNAMOTOR. HARRY L. TANNER, Brooklyn, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a Corporation of New York. Filed July 26, 1927. Serial No. 208,467. 12 Claims. (Cl. 171—223.)



1. In combination, an electrical circuit, a generator connected thereacross and having commutator brushes, a motor in unitary combination with the generator, and regulating means controlled by the potential of said circuit to shift the magnetic field with respect to said brushes thereby altering the action of the motor in response to potential variations of said circuit thereby changing the operation of the generator.

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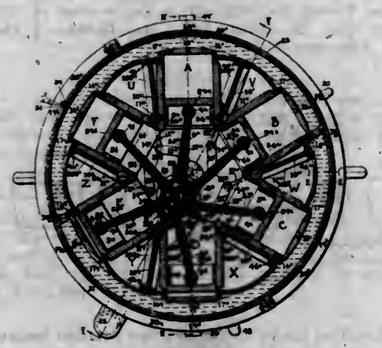
1,690,143. METHOD OF AND APPARATUS FOR REGISTERING CYLINDRICAL FORMS. ARTHUR K. TAYLOR, Baltimore, Md., assignor to The United States Printing and Lithograph Company, a Corporation of Ohio. Filed May 26, 1924. Serial No. 715,933. 12 Claims. (Cl. 88—24.)



1. The method of registering a cylindrical form having a movable member, which consists in providing suitable registering detail in such relation to the cylindrical form that by rotating the form, the portion to be registered will be in suitable relation to the registering detail for the detail to be displayed on the cylindrical form, rotating the form so that the portion to be registered is in suitable relation to the registering detail for the detail to be displayed on the cylindrical form, and displaying on the form an image of such portion of said registering detail as will define the proper location on said form for said movable member.

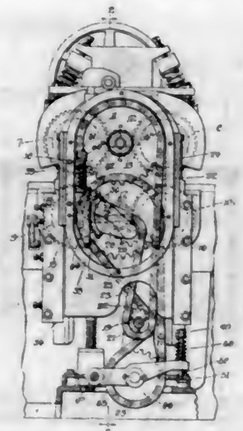
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1,690,144. INTERNAL-COMBUSTION ENGINE. JOHN WARREN TEASDALE, St. Louis, Mo. Filed Aug. 26, 1926. Serial No. 131,571. 15 Claims. (Cl. 123—55.)



4. An internal combustion engine comprising a plurality of cylinders arranged in a circular series, a crankshaft disposed centrally of said cylinders, a plurality of compression chambers adapted to compress combustible gases and a wheel secured to said crankshaft, said wheel being provided with passageways adapted at intervals to connect openings in said compression chambers with the source of supply of combustible gases to permit the admission of said gases into said compression chambers.

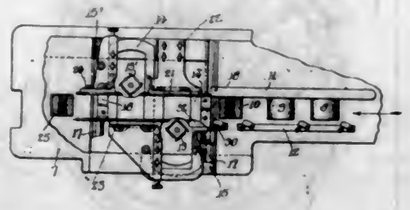
1,690,145. MOLDING MACHINE. WILLIAM O. VIVARTTAS, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 24, 1924. Serial No. 701,277. 7 Claims. (Cl. 64—5.)



1. In a molding machine, the combination of a feed roll, a support therefor, a drive shaft, said support being mounted for up and down movement relative to said shaft, means including a chain and sprocket mechanism for driving said roll, a rocker arm mounted to turn on a stationary axis and disposed between said roll and the drive shaft, a pair of idlers mounted on said arm and adapted to engage with said chain, and spring means tending to hold said idlers in engagement with the chain to maintain a predetermined tension thereon, said spring means being interposed between the rocker arm on the one hand and the movable support for the feed roll on the other hand.

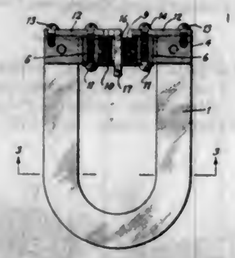
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1,690,146. MOLDER. WILLIAM O. VIVARTTAS and LOUIS T. MEDHOLDT, Rockford, Ill., assignors to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 26, 1925. Serial No. 18,361. 2 Claims. (Cl. 144—90.)



1. A molder having a base with two adjacent transversely disposed recesses of substantial depth opening at opposite sides of the base and extending substantially beyond the longitudinal center line of the base, supports bridging the respective recesses and movable transversely upon the base from one side thereof to the other, and a pair of side cutter heads mounted one in each of said supports and having individual driving units depending into said recesses and movable therein as the supports are moved from one side of the base to the other to change the positions of the cutter heads from one side of the work to the other, the arrangement being such that the cutters when on one side of the work perform a surfacing cut thereon and when on the other side perform a paralleling cut thereon.

1,690,147. ELECTROMAGNET FOR SOUND-REPRODUCING INSTRUMENTS. BENSON F. WADDELL, New York, N. Y. Filed Aug. 30, 1926. Serial No. 132,384. 14 Claims. (Cl. 175—339.)



1. An electro-magnetic speaker unit comprising a permanent magnet and cooperating armature, and including a fixed means of leakage of magnetic flux across the poles of the permanent magnet, and means for diverting said leakage through the armature, air-gap and pole-shoes under the influence of the telephonic currents.

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1,690,148. CAP CLOSURE FOR THE MOUTHS OF BOTTLES OR OTHER CONTAINERS. HARRY CLIFFORD WALLIS and KEITH ALEXANDER ROBINSON, London, England. Filed Aug. 11, 1926, Serial No. 128,611, and in Great Britain Apr. 30, 1926. 2 Claims. (Cl. 215—95.)



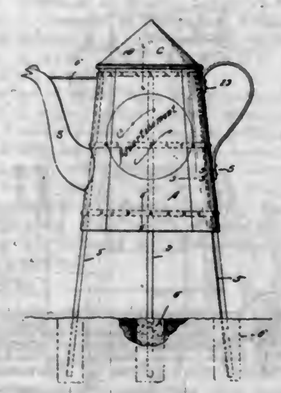
1. A cap closure embodying therein an annulus formed of a narrow strip of sheet metal, the ends of said strip being united by a tongue having a reduced neck, at one end of the strip, and a slot adjacent the other end of the strip, said slot being in length greater than, and in width less than, the width of said tongue, and the portion of said slot adjacent the end of the strip being relatively wider than the neck of said tongue, and said tongue being exposed outwardly of the annulus, whereby slight expansion of the lower edge of the annulus is permitted when applying the closure to, and the breaking off of the tongue is necessary when removing the closure from, a bottle.

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1,690,149. ADVERTISING SIGN. ROTCHER H. WATKINS, Durham, N. C. Filed Mar. 28, 1928. Serial No. 265,502. 1 Claim. (Cl. 40—126.)

A sign of the class described comprising a plurality of uprights, a frusto-conical body mounted on the upper portions of the uprights, said uprights being secured to the interior thereof, a conical cover for the upper end of the body, said body comprising a plurality of transversely curved sections having the side edges thereof converging upwardly toward each other, one side edge of each section having a channel flange and the other side edge having a flange, said flanges being inwardly directed, the second flanges being receivable in the first named flanges, means for securing the flanges together, a plurality of band segments in the body associated with each section transversely thereof and fitting against the inner surface thereof, mem-





bers of V-shaped sectional formation disposed against the inner surfaces of the segment, means securing the members, segments and sections together, bolts extending through the sections, segments, members and uprights to anchor them together.

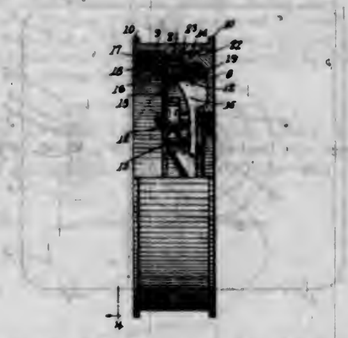
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1,690,150. METHOD OF USING LATEX AND PRODUCT THEREOF. WILLIAM B. WESCOTT, Boston, Mass., assignor to Rubber Latex Research Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 23, 1927. Serial No. 235,754. 8 Claims. (Cl. 18—50.)

1. In the thickening of binders for plastic materials the process which comprises producing a reaction between hemoglobin in solution and zinc oxid.

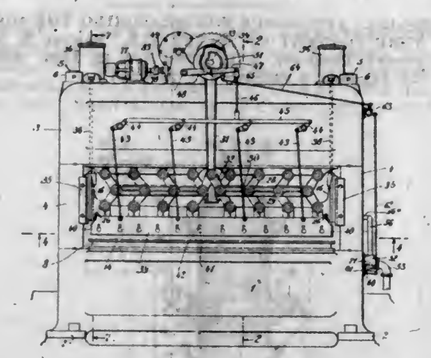
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1,690,151. HOISTING DRUM. ROBERT W. WOODBURY, Chattanooga, Tenn., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn., a Corporation of Tennessee. Filed Aug. 17, 1926. Serial No. 129,685. 18 Claims. (Cl. 188—218.)



1. A hoisting drum having removable end flanges and annular circumferentially continuous brake rims removably connected with said removable end flanges, said continuous brake rims being expansible and contractible radially and circumferentially independently of said end flanges.

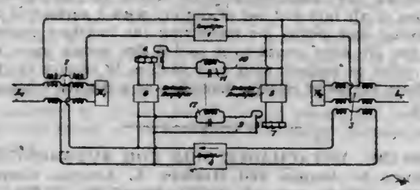
1,690,152. PRESS. ADAM ZISKA, Jr., Milwaukee, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn., a Corporation of Delaware. Filed Dec. 3, 1921, Serial No. 519,603. Renewed Apr. 4, 1928. 13 Claims. (Cl. 92—61.)



1. In a press for compressing wall board the combination of a bed over which the board moves, a platen movable toward and away from the bed, and a frame mounted on the platen and movable relatively thereto, this frame cooperating with the platen to enclose a portion of the web to be compressed.

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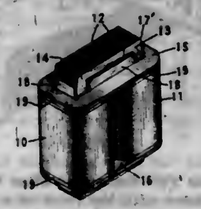
1,690,153. SELECTIVE ECHO SUPPRESSOR. LEONARD G. ABRAHAM, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 26, 1926. Serial No. 111,847. 3 Claims. (Cl. 178—44.)



1. A circuit including an echo suppressor, and means in said echo suppressor providing for selective operation thereof with respect to different frequencies transmitted over said circuit.

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1,690,154. TRANSFORMER. MILTON ALDEN, Springfield, Mass., assignor to Alden Manufacturing Company, Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 14, 1926. Serial No. 154,688. 7 Claims. (Cl. 175—356.)

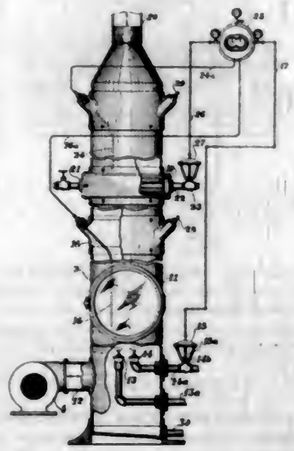


1. An electro-magnetic device having no moving parts and consisting of a laminated core and an electrical coil positioned around a portion of said core, said core consist-

ing of two right-angular sections and two continuous metallic bands, said bands positioned around said core at either end of said electrical coil and rigidly binding said right angular sections together.

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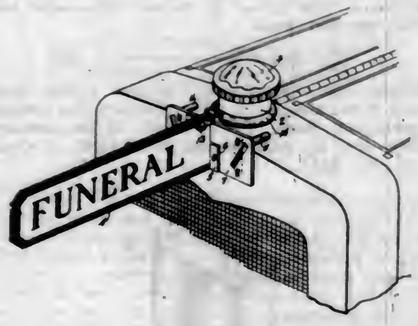
1,690,155. APPARATUS FOR MEASURING THE MOISTURE CONTENT OF MATERIALS. SAMUEL S. AMDURSKY, Rochester, N. Y. Filed Nov. 19, 1926. Serial No. 149,483. 3 Claims. (Cl. 73—24.)



1. In apparatus for determining the humidity of a material, the combination with means for maintaining a flow of air into and out of contact with a surface of the material and means for measuring the moisture content of the air after contact, of means for acting upon the air prior to contact with said surface to impart to it a definite degree of relative humidity at a definite temperature.

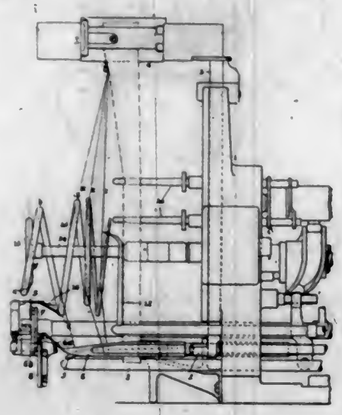
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1,690,156. DETACHABLE SIGN FOR AUTOMOBILES. JOHN L. ARNOLD and HERMAN A. ARNOLD, Canton, Ohio. Filed Apr. 13, 1925. Serial No. 22,629. 4 Claims. (Cl. 40—129.)




1. A detachable sign for automobiles including a back plate for engagement with the front of a radiator, fingers upon said back plate for engagment with the top of the radiator, flexible means for engagement with the radiator cap or spout and a sign panel located at right angles to the back plate and extending forwardly therefrom.

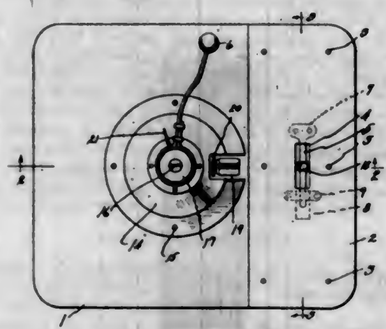
1,690,157. THREAD FEEDER FOR WARP TWISTING-IN MACHINES. JOHN HENRY BECKER, Richmond Hill, N. Y., assignor to Warp Twisting Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 24, 1928. Serial No. 249,037. 4 Claims. (Cl. 28—43.)



1. In a warp twisting-in machine, the combination of a frame, a pair of horizontal guides projecting from the frame and between which the two warps extend and having upwardly inclined terminals, means above the guides to hold the two ends of the warp, and a rotating spiral device, journaled with its axis horizontal and relatively between said means and guide, for advancing the threads along the guides to the terminals successively in pairs each comprising a thread from each warp, the spiral of said device having that volute portion thereof which advances the threads along the parts of the guides immediately adjoining their terminals of greater pitch than that volute portion thereof which advances the threads to said parts and having the first-named portion thereof formed to pass closer to the guides than its second-named portion.

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1,690,158. PRACTICE GOLF GAME. OTIS C. CURRIE, St. Clair, Mich., assignor of forty-nine one-hundredths to Frank V. Carney, St. Clair, Mich. Filed Mar. 12, 1927. Serial No. 174,754. 3 Claims. (Cl. 273—35.)



1. In a device of the character described, a base, a standard secured to the upper side of the base, a collar rotatably secured to the standard, a thong secured at one end to the collar, a ball secured to the opposite end of the thong, an arm extending outwardly from the collar, a counting device mounted on the base, and a star wheel



through revolution of which the counting device is actuated, said star wheel lying in the path of movement of the said arm whereby the wheel is caused to turn by revolution of the collar.

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1,690,159. METHOD OF PRODUCING SOUND-RECORD TABLETS. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J., assignor to Thomas A. Edison Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Oct. 5, 1926. Serial No. 139,754. 6 Claims. (Cl. 18—48.3)

1. The method of producing a tablet adapted to be impressed with a sound record groove, which consists in applying to a suitably shaped blank a priming or sizing coating of varnish containing a fusible condensation material, and then a plurality of additional coatings of such varnish, drying the coated blank between the applications of successive coatings of varnish, the duration of successive drying periods progressively increasing, and then curing the coated blank by the application of heat, substantially as described.

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1,690,160. RESINOUS COMPOSITION CONTAINING SULPHUR AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed Dec. 19, 1922. Serial No. 607,909. 8 Claims. (Cl. 260—20.)

1. A deodorized fusible resin free from hydrogen sulphide and free from other soluble sulphides, formed by heating a phenolic body with at least 1.6 times its weight of sulphur in the presence of an alkaline catalyst.

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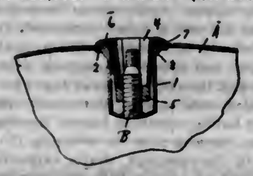
1,690,161. PACKING. WALTER W. EVANS, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 3, 1923. Serial No. 622,566. 5 Claims. (Cl. 154—45.5.)




1. Packing material adapted for bottle-seals and comprising a relatively-thick, resilient backing layer, and a relatively thin, impervious, plastic, facing layer adherent to said backing layer and composed of unvulcanized rubber, wax, and a reenforcing pigment, the backing layer being substantially free from impregnation by the material of the facing layer.

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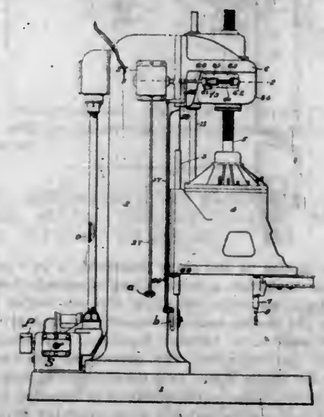
1,690,162. VALVE CONSTRUCTION. JOHN L. FITZPATRICK, Bowling Green, Ky. Filed Nov. 25, 1927. Serial No. 235,588. 1 Claim. (Cl. 278—63.)



In a valve securing means for inflatable bladders wherein it employs a conventional threaded valve body, a cup having a flange at its open end adapted to bear against the inner side of the plate about the usual valve receiving opening therein, said cup adapted to have the conventional threaded valve body extending therethru, a tube having a flange at its outer end engageable with the outer side of the bladder, the inner end of the tube being in threaded relation with the threaded valve body, whereby the flanges may be clamped to opposite sides of the bladder.

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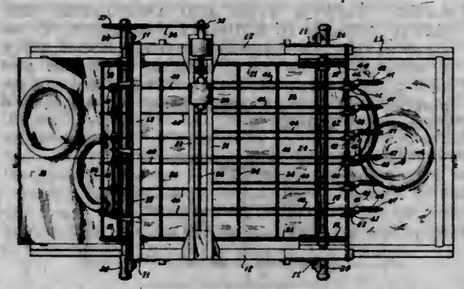
1,690,163. SCREW-FEED AND RAPID-TRAVERSE MECHANISM. ROBERT M. GALLOWAY, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Jan. 26, 1924. Serial No. 688,753. 2 Claims. (Cl. 77—32.)



1. A machine tool combining a frame; a member adapted to be fed and retracted on said frame; a slow feeding mechanism for said member, said mechanism comprising a threaded shaft translatable in said frame and supporting said member; a nut having a threaded connection with said shaft; a worm-wheel coaxial and rotatable with said nut; a worm to drive said worm wheel, said worm and worm-wheel comprising a non-reversible drive; means to rotate said worm; a rapid traverse for said member comprising a non-translatable worm-wheel splined to said shaft; a worm to drive said worm-wheel; means independent of the slow feed transmission to rotate said last named worm; and means to render either of said member translating mechanisms effective.

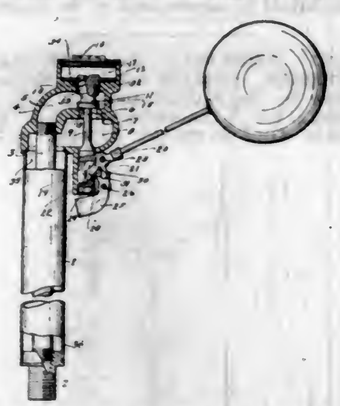
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1,690,164. INNER-TUBE-INSPECTION APPARATUS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed May 20, 1924. Serial No. 714,669. 15 Claims. (Cl. 73—51.)



1. In apparatus for facilitating the testing of hollow rubber articles as to air impermeability, in combination, a tank adapted to contain a liquid, means for directing the articles beneath the surface of the liquid, and means for causing said articles to traverse in generally horizontal paths beneath the surface of the liquid including means contacting only the uppermost surfaces of the said articles.

1,690,165. AUTOMATIC HYDRAULIC VALVE. WILLIAM L. GILCHRIST, Albany, Oreg., assignor to Standard Securities Co., a Corporation of Oregon. Filed Aug. 28, 1926. Serial No. 132,222. 4 Claims. (Cl. 137—104.)



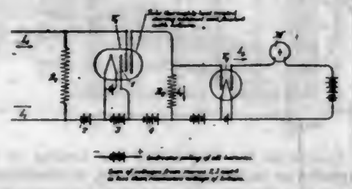
1. In a device of the class described, a pair of concentric tubular members, a valve casing mounted on said tubular members, an inlet chamber and an outlet chamber formed in the casing and communicating respectively with the inner and outer tubular members, a passageway between the two chambers, the portion of the casing surrounding the upper end of said passageway forming a valve seat; a valve, above said passageway adapted to engage said seat; said valve having a stem provided with a longitudinally disposed slot; a lever fulcrumed to said casing, engageable with the upper and lower walls of said slot for the purpose of raising and lowering said stem; a pawl rockably carried by said casing; said pawl adapted to engage said stem when in a raised position; and a finger carried by said lever adapted to engage said pawl to release said stem therefrom when the lever is moved to a position for lowering the valve.

1,690,166. LIQUID SOLUTION OF THIOCARBANILIDE. HAROLD GRAY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 28, 1927. Serial No. 187,416. 20 Claims. (Cl. 252—9.)

1. A composition of matter comprising a liquid solution of thiocarbanilide and a plurality of different amines.

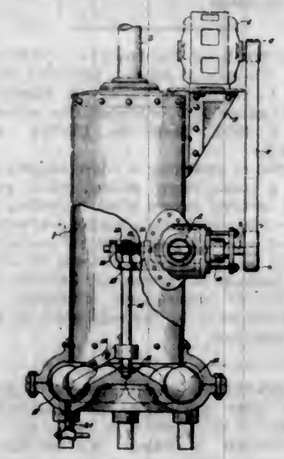
15. A composition of matter comprising thiocarbanilide and a plurality of amines including aniline, xylidine and dimethyl paraphenylene diamine.

1,690,167. VACUUM TUBE AND ASSOCIATED ELEMENT. WILLIAM H. T. HOLDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Original application filed June 1, 1926, Serial No. 113,020. Divided and this application filed Apr. 26, 1927. Serial No. 186,784. 6 Claims. (Cl. 250—27.)



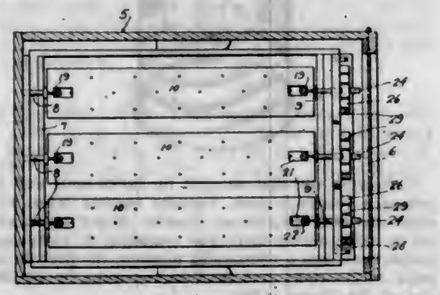
1. In a system for amplifying electric currents, a vacuum tube and sources of anode and grid potentials therefor, said tube being flushed with a gas of a high resonance voltage, and the sum of the voltages from said sources being less than the resonance voltage of said gas.

1,690,168. OIL MILL. ROBERT C. HOPKINS, Alliance, Ohio. Filed Apr. 3, 1926. Serial No. 99,586. 9 Claims. (Cl. 83—45.)



1. An oil mill including an upright chamber, means for admitting oil tangentially to the chamber and for producing centrifugal action of the oil to separate the oil into light and heavy portions and to allow the heavy portions of the oil to settle downward to the bottom of the chamber, grinding means in the peripheral portion of the bottom of the chamber for grinding heavy portions of the oil, and an oil outlet at the axial center of the top of the chamber.

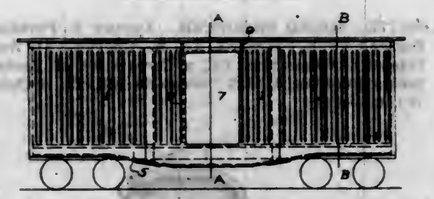
1,690,169. EGG TURNER FOR INCUBATORS. JAMES JACKSON, Bakersfield, Calif. Filed Dec. 2, 1927. Serial No. 237,207. 1 Claim. (Cl. 119—44.)



An egg tray for incubators comprising a plurality of tray sections, including a pair of oppositely arranged sections having egg racks formed thereon cooperating with each other and with the remaining sections to retain the eggs in position therein against independent movement therebetween, end plates for said sections engageable therewith for retaining the same in assembled position, said end plates forming a tongue and groove connection with certain of said side sections of the tray, a pair of lugs extending laterally from opposite ends of said plate, said other side sections of the tray having openings formed therein adapted to receive said lugs, locking pins for securing the lugs in engaged position in the openings, shafts extending from the outer faces of said plates, an indicator carried by one of said shafts and adapted for simultaneous rotation therewith, a dial arranged adjacent the indicator, notches formed about the periphery of the indicator and a key engageable with said notches adapted to retain the indicator and tray against rotation.

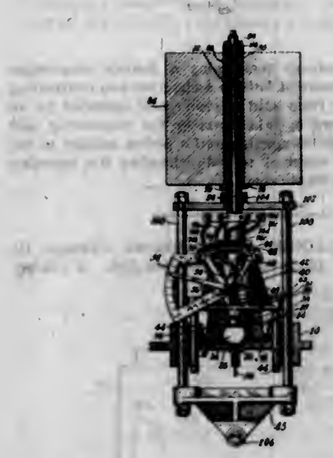


1,690,170. RAILWAY BOX FREIGHT CAR. GEORGE R. JOUGHINS, Elizabeth, N. J. Filed Jan. 8, 1927. Serial No. 159,062. 5 Claims. (Cl. 105—409.)



1. A railway box freight car having its sides constructed of self-supporting metal sheets longitudinally disposed substantially as described.

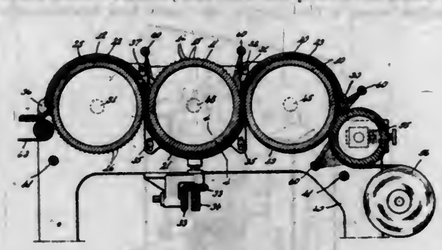
1,690,171. AUTOMATIC CLASSIFYING DEVICE. WALDEMAR D. KMENTT, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 18, 1926. Serial No. 149,116. 8 Claims. (Cl. 265—12.)



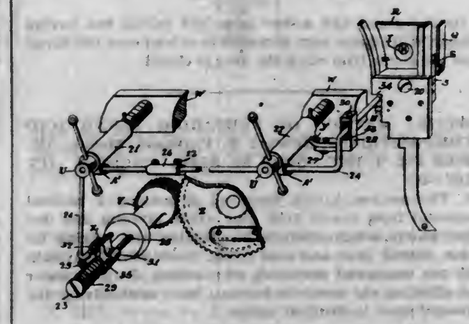
1. Apparatus of the character described comprising a rest for an article, means for compressing the article against said rest with a relatively small determinate force, means for further compressing the article against said rest with a greater determinate force, means for registering the increase of deformation of the article resulting from the application of the second mentioned force, and means for actuating the two force-applying means in timed relation in cyclic operation.

1,690,172. MACHINE FOR MAKING ELASTIC PAPER. WILLIAM A. LORENZ, West Hartford, Conn.; Phoebe Bunker Lorenz executrix of said William A. Lorenz, deceased. Filed Apr. 9, 1927. Serial No. 182,304. 12 Claims. (Cl. 92—69.)

1. In a machine of the character described, a pair of cooperating cylinders one delivering to the other, each of said cylinders being provided with circumferential corrugations and the receiving cylinder being revolved at a slower speed than the delivering one, and plates curved about said cylinders and having corrugations matching with those of the cylinders.



1,690,173. AUTOMATIC LINER SAFETY. B. A. MILLS, Keystone, W. Va. Filed Oct. 18, 1927. Serial No. 226,935. 2 Claims. (Cl. 199—52.)

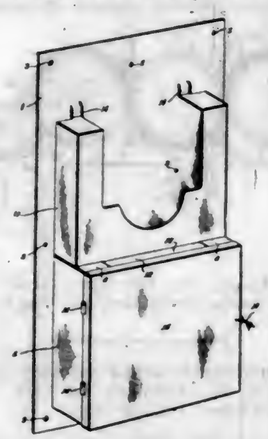


1. In an automatic liner safety device, adapted to be attached to the lower side of the intermediate channel, the vise locking screws, the mold turning pinion and the dial lever, supporting brackets for end and front adapted to support a section of the device attachable to the intermediate channel, a channel latch located at the entrance of the intermediate channel and movable into and out of the path of the leading delivery slide finger, an interchangeable dial lever key adapted to engage a lug on an interchangeable transfer blade, an interchangeable transfer blade adapted to withdraw a channel latch, a neutralizer link operatively connected with a carriage frame and the justification lever adapted to hold the said locking arrangements in neutral when desired, a justification lever movable into and out of the path of the trimming knife sector cover or block adapted to withdraw an outside transfer blade, an outside transfer blade operatively connected with the justification lever and also adapted to move the channel latch to obstructing position when the vise is opened and to move out of engagement with the channel latch when the justification lever is engaged by the sector cover or trimming knife block in normal locked position of the vise frame, a hood operatively connected with the justification lever and the outside transfer blade also adapted to hold the channel latch in perpendicular position.

1,690,174. METER MOUNTING. THOMAS J. NEWMAN, Canton, Ohio, assignor to The Superior Switchboard & Devices Company, Canton, Ohio, a Corporation of Ohio. Filed July 26, 1924. Serial No. 728,505. 8 Claims. (Cl. 247—2.)

1. A meter mounting including a base plate having a pair of spaced sockets in its upper portion, a switch box upon

its lower portion, a meter trim having ears at its upper end for engagement in said sockets and provided with a flange



at its lower end and a door upon the switch box having a flange at its upper edge arranged to extend over the flange upon the meter trim when the door is closed.

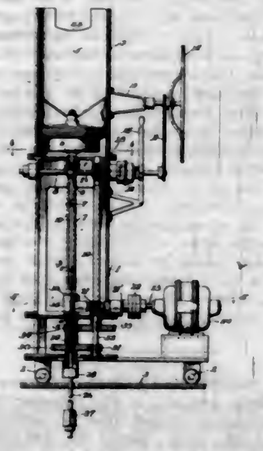
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1,690,175. METHOD OF PREPARING TANNIC-ACID COMPOSITIONS. RUSSELL S. PATERSON, Mobile, Ala. Filed Feb. 4, 1926. Serial No. 86,061. 2 Claims. (Cl. 167—9.)

1. The method herein described of making a medical compound from tannic acid, zinc oxide, glycerin and distilled water, which consists in grinding and mixing together tannic acid and zinc oxide, then mixing glycerin with the compound produced, then adding distilled water and allowing the mass to harden, then re-dissolving the hardened mass in distilled water.

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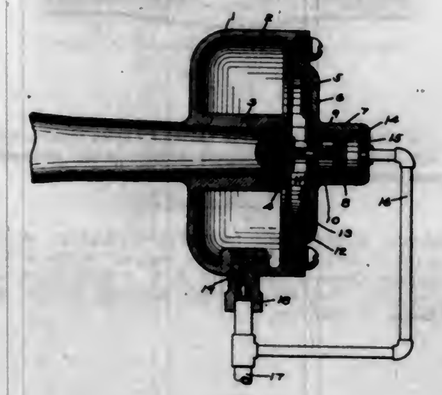
1,690,176. MACHINE FOR MIXING GYPSUM STUCCO. CALEB PAYNE, Chicago, Ill., assignor to Gypsum Engineering and Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 22, 1927. Serial No. 214,576. 10 Claims. (Cl. 83—73.)



1. In a machine for mixing gypsum stucco, the combination of a mixing chamber, an upper paddle and a lower paddle in said chamber, means for revolving said paddles in opposite directions and at different rates of speed, and means for moving said paddles bodily in said chamber and at the same time automatically discontinuing the revolving movement of the paddles.

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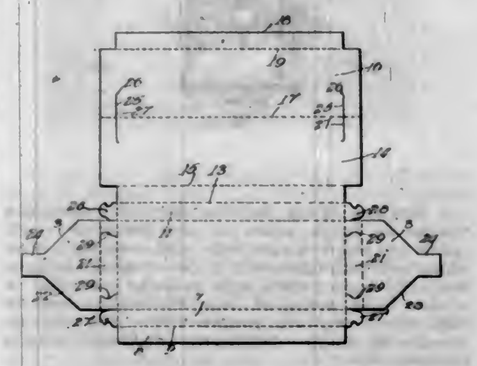
1,690,177. SOUND PRODUCER. ANDREW F. PETERSON, Oakland, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 4, 1927. Serial No. 223,922. 4 Claims. (Cl. 116—142.)



1. A sound producer comprising a flexible diaphragm subject to the pressure of fluid in a chamber and controlling an outlet opening from said chamber and operated by an increase in pressure in said chamber for connecting said chamber to said outlet opening and a piston subject to the pressure of fluid supplied to said chamber for opposing movement of said diaphragm.

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1,690,178. CONTAINER. PERCY REEVES, Chicago, Ill. Filed June 19, 1922. Serial No. 569,330. 3 Claims. (Cl. 46—37.)



3. In a device of the kind described, a cardboard box having a shallow rectangular body portion and having attached sections adapted to be arranged to make the sides higher, and on one longitudinal edge of the body portion, having a large section attached provided with a score line, adapting it to be bent to form a peaked roof continuous from one side to the other.



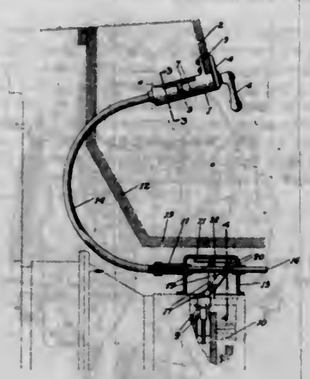
1,690,179. DECORATION FOR ORNAMENTING FIBROUS AND SIMILAR SURFACES AND METHOD OF MAKING AND APPLYING THE SAME. HELENA S. SADTLER, Erdenheim, Pa. Filed July 9, 1926. Serial No. 121,302. 4 Claims. (Cl. 41—33.)



1. A transfer for use in decorating surfaces which are uneven, rough or fibrous, which consists of a sheet of apper so thin and water-absorbent that if the sheet were dampened with paste applied directly thereto it would be so limp and tender that it would tear of its own weight, and having imprinted on one surface thereof any suitable decorative design and having its back or opposite surface temporarily secured to a backing of tougher sheet material by an adhesive which permits the thin sheet to be readily manually stripped from said backing for the application of said thin sheet to the surface to be decorated.

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1,690,180. HAND-OPERATED GEAR-SHIFT MECHANISM. BENJAMIN F. SCHMIDT, Los Angeles, Calif., assignor to Gillette Schmidt Corporation, Los Angeles, Calif., a Corporation of Delaware. Filed June 19, 1926. Serial No. 117,137. 7 Claims. (Cl. 74—39.)

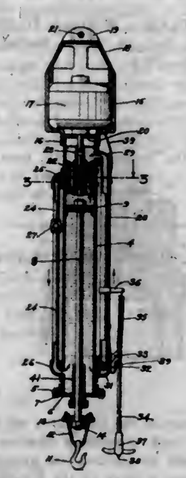


1. In a motor vehicle having a transmission structure which includes a pair of transversely spaced gear shifting forks, a flexible element of a nature to enable the same to be both rotated in either direction for gear selection and moved longitudinally for gear shifting, handle means connected to one end of the element, means between the other end of the element and the forks for enabling selective operating engagement of said forks with the element to be had with the rotation of said element, said element being longitudinally curved between its ends, and a fixed housing in which said element is enclosed from end to end.

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1,690,181. HYDRAULIC HOIST. JOHN E. SEDERHOLM, St. Paul, Minn., assignor to American Hoist & Derrick Co., St. Paul, Minn., a Partnership composed of F. J. Johnson and W. O. Washburn. Filed May 12, 1924. Serial No. 712,587. 4 Claims. (Cl. 60—52.)

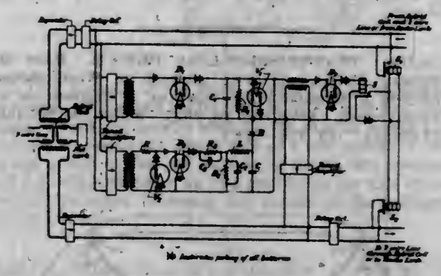
1. A vertically operable hoist including a cylinder, a piston, a rod for the piston operating through the bottom of the cylinder, a gear pump and means for circulating fluid above and below the piston, the pump being wholly within the cylinder and above the piston, and a motor mounted



upon the upper end of the cylinder immediately adjacent the pump and having a direct and detchable driving connection with one of the gears of the pump.

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1,690,182. SUPPRESSION OF ECHOES AND SINGING IN FOUR-WIRE CIRCUITS. HAROLD C. SILENT, Larchmont, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 8, 1927. Serial No. 218,258. 6 Claims. (Cl. 178—44.)

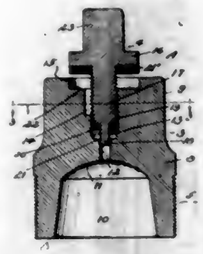


1. In a two-way telephone system including a circuit having a first path adapted for transmission in one direction and a second path adapted for transmission in the opposite direction, the first path being normally blocked and the second path being normally cleared, a two-wire line connected to said circuit at one end thereof, switching means for simultaneously clearing said first path and blocking said second path, and a three-electrode vacuum tube detector associated with both of said paths for controlling said switching means; the method of preventing the operation of said switching means by echoes of waves in said second path which are reflected from the two-wire line over said first path, which consists in impressing on the grid of the detector in response to waves in the second path a negative voltage sufficient to prevent operation of the detector by the echoes, simultaneously storing a quantity of energy to maintain said voltage on said grid, abruptly discharging

said maintaining energy at the termination of a certain period of time, and causing the length of said period to be determined independently of the amplitude of the waves in the second path.

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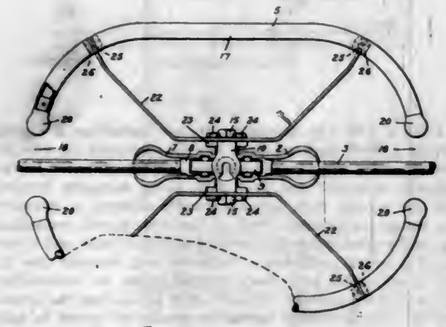
1,690,183. TEST PLUG. WILLIAM D. STOUGHTON, Newark, Ohio. Filed Dec. 30, 1926. Serial No. 158,023. 2 Claims. (Cl. 137—77.)



1. A plug structure of the character set forth comprising separable primary and secondary sections, said primary section being formed to include an axially disposed bore threaded for at least a part of its length and having its inner end terminated in a reduced port, and the upper end terminating in an enlarged pocket formed in the top of said primary section, there being a vent passage extending between a point intermediate of the length of said bore and said pocket, said secondary section comprising an enlarged head adapted to be received within said pocket and terminating in an inwardly extending threaded shank arranged to be removably positioned within said bore, the inner end of said shank terminating in a reduced stem arranged to occupy said port when the sections of the plug are assembled, a gasket surrounding said stem sealing the joint between said port and said bore, and a gasket surrounding the shank and located below the head of the secondary section for sealing the upper part of said bore and said vent.

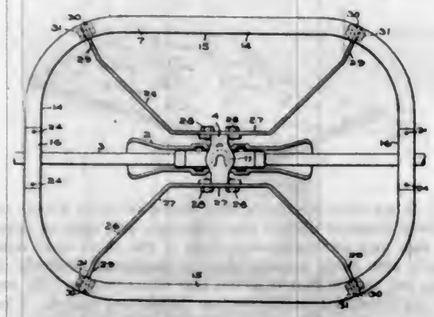
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1,690,184. TRANSMISSION-LINE DEVICE. ROSS M. STUMM, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1927. Serial No. 227,451. 12 Claims. (Cl. 173—318.)



1. In a transmission-line device, the combination with an insulator, of an electrostatic-field-control structure comprising spaced portions at opposite sides of the line conductor between which the conductor may freely pass.

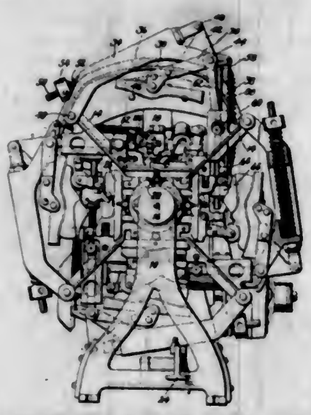
1,690,185. TRANSMISSION-LINE DEVICE. NILS J. A. WAHLBERG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 30, 1927. Serial No. 209,439. 11 Claims. (Cl. 173—318.)



6. A transmission-line device comprising an electrostatic-field-control element including spaced sections, a section between said sections and means for normally positioning said intermediate section and permitting movement thereof relative to said spaced sections in response to movement of the line conductor.

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1,690,186. SOLE-PRESSING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 13, 1926. Serial No. 135,008. 9 Claims. (Cl. 12—37.)



4. In a sole laying machine, a carrier having a jack and an opposed sole pressing pad and arranged to carry the jack and pad past a loading station, a cam having a surface thereon constructed and arranged to establish sole laying pressure on a shoe on the jack in response to relative movement between the carrier and the cam, the said cam surface being limited substantially to the extent required to establish the said pressure, and a latch for maintaining the pressure, when established, independently of the cam.

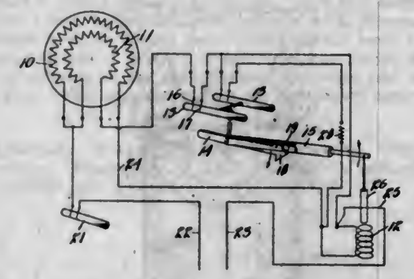
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1,690,187. AUTOMATIC STARTER. FRANK R. ZUMBRO and FRANCIS SHENTON, Waynesboro, Pa., assignors to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed May 18, 1920. Serial No. 109,941. 6 Claims. (Cl. 172—279.)

1. The combination of a motor having a pair of windings, means for controlling the operation of said motor, a switch in circuit with each of said motor windings, a solenoid in



circuit with one winding of the motor arranged upon the operation of the first mentioned means to close said switches, one of said switches serving to short circuit the



solenoid whereby the same will release the said switches after a time delay and open circuit one winding to permit the motor to operate on the other winding, substantially as set forth.

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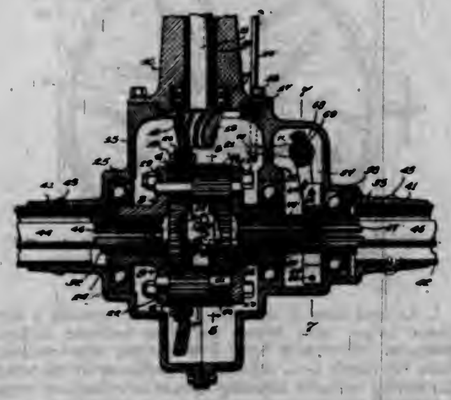
1,690,188. SHOE HAVING CONCEALED EYELETING. WILLIAM B. BARKLEY, Newton Center, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 27, 1927. Serial No. 164,007. 7 Claims. (Cl. 36—45.)



6. A lace shoe having the portion of its upper adjacent to its lacing slit made up of an outer layer and an inner or lining layer with a stay between said layers adjacent to the lacing slit and held in position by stitching passing through the stay and one or both of the other layers of the shoe upper, a plurality of aligning lacing holes in the outer layer, the stay, and the inner or lining layer, and an eyelet set in each of the holes in the stay and clenched upon one surface thereof, the eyelets being concealed by the outer layer and the inner or lining layer.

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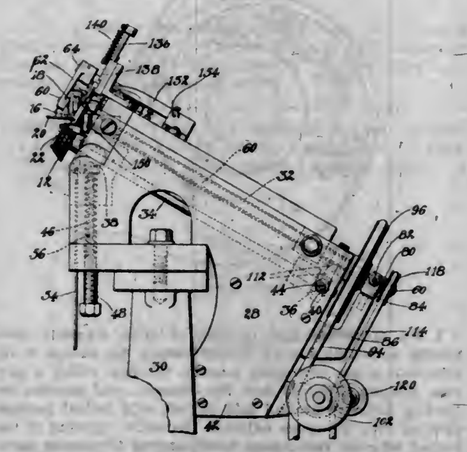
1690,189. DIFFERENTIAL GEARING. ROBERT L. DENNISON, Kansas City, Mo. Filed June 2, 1927. Serial No. 196,090. 5 Claims. (Cl. 74—100.)



1. A device of the character described comprising a drive shaft, a pinion carried thereby, a ring gear meshing with said pinion, a pair of sets of pinions carried by said ring gear and rotatable in circular orbits about the axis thereof, each pinion of one set meshing with one of the pinions of the other set, a pair of gears each meshing with the pinions of one set, a pair of axle sections secured respectively to the gears of said pair, a locking device secured against rotation with respect to one gear of said pair, a second locking device secured against rotation but longitudinally slidable with respect to the other gear of said pair, a thrust member extending through and rotatable with respect to said locking devices, the ends of said thrust member contacting with the inner ends of said axle sections, and means for sliding said last named locking device longitudinally with respect to said last named gear to bring it into engagement with said first named locking device, said locking devices cooperating with but forming no part of the drive means comprising said pair of gears.

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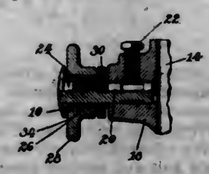
1,690,190. LIP-TURNING MACHINE. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 2, 1925. Serial No. 27,515. 30 Claims. (Cl. 12—30.)



1. In a machine of the class described, in combination, lip turning means, and means for feeding a lipped sole comprising a feed roll coaxial with the lip turning means and arranged to engage the lipped face of a sole outside of the lip and to bear against the shoulder of the lip, and a second feed roll rotatable about an axis parallel to the axis of the first roll arranged to engage the margin of the unlipped face of the sole.

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1,690,191. HEEL-BEADING MACHINE. EDWARD ERICKSON, deceased, Beverly, Mass., by Mary E. Erickson, executrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Dec. 31, 1924, Serial No. 759,039. Divided and this application filed Apr. 11, 1927. Serial No. 182,853. 5 Claims. (Cl. 12—49.)

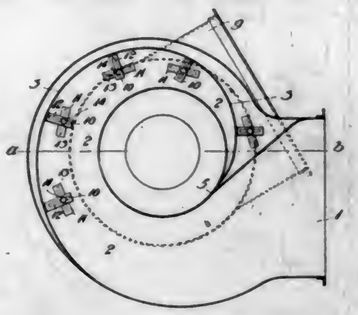


1. A heel-beading machine including a standard having a plane surface, a headed supporting stud projecting from said plane surface, a beading tool member comprising a

disk-shaped indenting tool and a disk-shaped gage member for said tool mounted concentrically on said supporting stud and arranged to coact respectively with adjacent intersecting surfaces of a heel, one of said members being freely rotatable on said stud, the distance of the beading line from the adjacent edge of work operatively presented to the tool being determined by the distance between the beading tool and the flat face of the disk, and means for adjustably holding said stud in said standard to allow free rotation of the member rotatably mounted thereon while restricting axial movement of said rotatable member by the cooperation of the head of the stud and the plane surface of the standard with opposite ends of said member.

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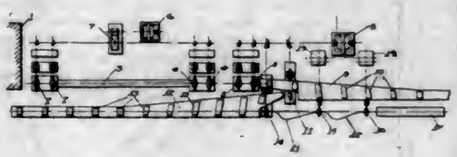
1,690,192. METHOD OF CHARGING CELLULOSE DIGESTERS AND THE LIKE AND MEANS THEREFOR. PER ALBERT FRESK, Robertsfors, Sweden. Filed Apr. 4, 1927, Serial No. 180,987, and in Sweden Dec. 21, 1926. 6 Claims. (Cl. 214—17.)



1. An apparatus for charging cellulose digesters comprising a feeding funnel through which the charge is introduced, a gas conveying passage through which a gaseous medium is forced into the digester, said passage extending helically around said funnel, said helical passage opening into the space adjacent the outlet opening of the funnel whereby the charge when leaving the outlet opening of the funnel is caught by the gaseous medium and is entrained in the movement thereof.

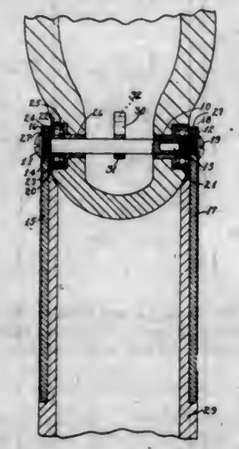
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1,690,193. ROLLING MILL. JEROME R. GEORGE, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 9, 1923. Serial No. 650,381. 10 Claims. (Cl. 80—35.)



1. In a rolling mill, a plurality of alined stands of rolls arranged in juxtaposition for continuous operation with less spacing between said stands than the length of the stock passing therethrough, one group of said alined continuous stands being actuated from the same source as preceding rolls of said mill and another group of said alined continuous stands being actuated from the same source as succeeding non-continuous or open roll stands of said mill.

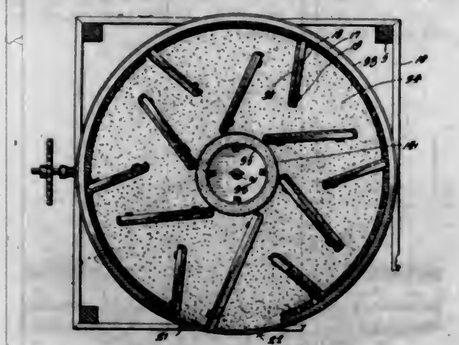
1,690,194. KNEE JOINT FOR ARTIFICIAL LIMBS. CHARLES E. GIRTON, Cincinnati, Ohio. Filed Jan. 30, 1926. Serial No. 85,048. 1 Claim. (Cl. 3—2.)



In a device of the class described the combination of an artificial femur having a pair of bores therein, the ends of the bores being enlarged to provide recesses in the sides of the femur, a pair of perforated cup-shaped bushings having sleeves thereon received in the recesses in the sides of the femur, the sleeves on the bushings extending through the bores, a perforated ball bearing comprising an inner and outer race received in each of the bushings, a revoluble shaft having an enlarged threaded portion at one end extending through the aligned perforations in the ball bearings, a strap threadedly received by the enlarged threaded end of the shaft, a second strap mounted on the other end of the shaft and means for securing the second strap to the shaft and for clamping the inner bearing race to the shaft.

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1,690,195. CITRUS-FRUIT BRUSHING AND POLISHING APPARATUS. LEWELLYN N. HALEY, Clearwater, Fla. Filed Nov. 1, 1924. Serial No. 747,220. 4 Claims. (Cl. 146—202.)

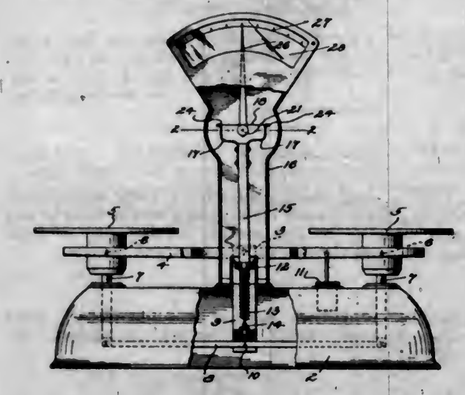


1. An apparatus of the class described, including a horizontal rotary table having an upper brushing surface, means to rotate said table, a stationary ring mounted above the rotary table adjacent the periphery of the latter and having an inner brushing surface of cylindrical form, a circular wall disposed concentrically within and spaced from said ring, a series of baffles extending from points spaced inwardly from the ring obliquely inward towards the circular wall, said baffles extending inward in a direction inclined from the radius passing through the outer end in the direction of rotation of said table and having polishing surfaces on the faces toward the radius, a second series of baffles extending from the wall obliquely outward to points spaced from the ring above said table, said last named baffles extending outward in a direction inclined from the radius passing through the inner end in the direction of rotation of said table and having polishing surfaces on the faces toward the radius, said second named baffles alternating with the first named baffles.



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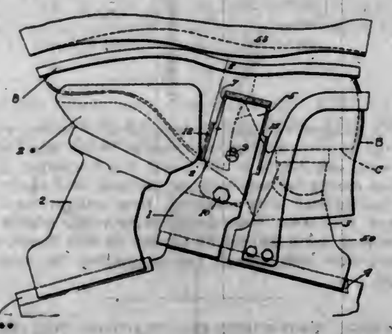
1,690,196. SCALE. NATHAN A. HALLWOOD, Columbus, Ohio. Filed June 7, 1927. Serial No. 197,140. 2 Claims. (Cl. 265—58.)



1. In a scale, in combination, a movable even balanced beam, an arm arising from said beam and fixed to oscillate in unison therewith, a resilient yoke carried by the upper end of said arm, an indicator movably mounted independently of said beam, said indicator being provided with a hub, and a thin metallic strap having its intermediate portion wrapped about said hub and having the opposite ends thereof connected with said resilient yoke.

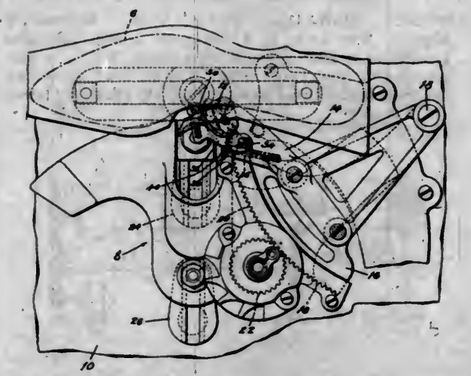
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1,690,197. SHOE-PRESSING MACHINE. ARTHUR EDWARD HEADLEY, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 14, 1925, Serial No. 23,040, and in Great Britain Apr. 22, 1924. 27 Claims. (Cl. 12—33.)



1. In a shoe pressing machine, a pressing member, means for supporting a last and shoe at its forepart and at its heel end, and means for engaging the shoe between its heel and fore parts to support it under the pressure of the pressing member, said last-named means comprising shoe-engaging members movable relatively to each other to fit the contour of the engaged portion of the shoe.

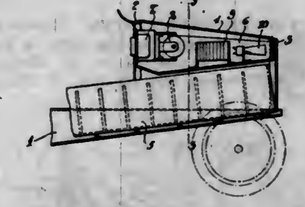
1,690,198. TRIMMING MACHINE. GIDEON J. JULIAN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 31, 1925. Serial No. 53,642. 19 Claims. (Cl. 12—25.)



1. In a sole trimming machine, means for trimming material from a sole, and means adapted for guidance by the sole and compensative therefor for deflecting said material from said trimming means.

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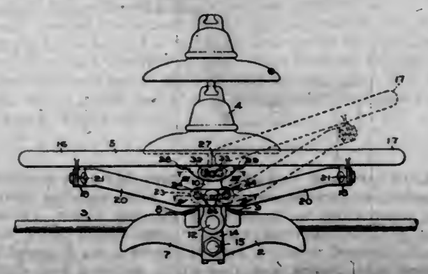
1,690,199. ELECTRIC AUTOMOBILE. KARL HILDING OSSIAN LÜBECK, Tslinge, Sweden. Filed Aug. 22, 1924, Serial No. 733,625, and in Sweden June 21, 1924. 9 Claims. (Cl. 180—65.)



1. In electric automobiles, the combination of a battery located in the fore part of the vehicle, a housing adapted to enclose controlling apparatus of the vehicle disposed in said fore part of the vehicle, in front of the driver's compartment and above said battery, said housing having such a shape that the top of the battery will be easily accessible.

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1,690,200. TRANSMISSION-LINE DEVICE. FREDERIC H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 20, 1927. Serial No. 227,435. 12 Claims. (Cl. 173—318.)

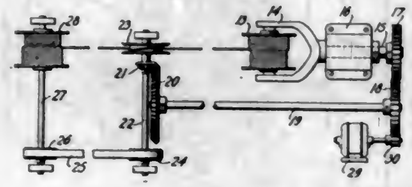


12. An electrostatic-field-control device comprising an annular field-control element including half portions pivotally relatively movable about a point on the field-control

surface thereof, lost-motion means for connecting said portions and supporting means for said portions having lost-motion connection thereto for permitting said relative movement.

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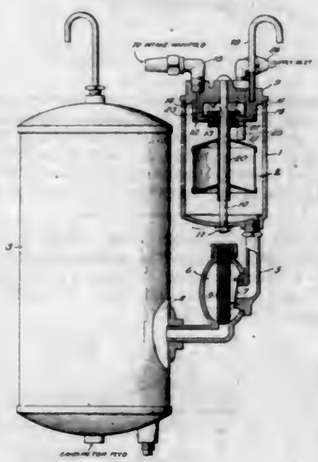
1,690,201. SIGNALING CONDUCTOR. WILBUR E. MOUGEY, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 31, 1927, Serial No. 164,795, and in Great Britain June 15, 1926. 6 Claims. (Cl. 178-45.)



1. The method of producing a signaling conductor having an inner portion and a metallic covering fitting said inner portion loosely, which comprises applying a strand having edges to a cylindrical strand so that only the edges of the strand are in contact with the cylindrical strand to form the inner portion, applying a metallic covering over said inner portion, and forcing said applied strand into substantially complete contact with said cylindrical strand, to space said metallic covering therefrom.

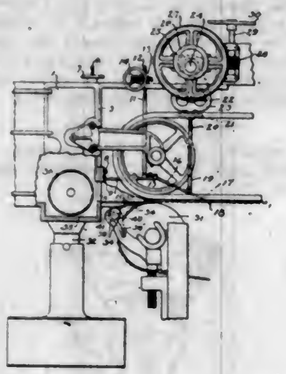
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1,690,202. VACUUM FEED SYSTEM. GUSTAVE C. NELSON, Moline, Ill., assignor to The Borg & Beck Company, Moline, Ill., a Corporation of Illinois. Filed May 13, 1921. Serial No. 469,360. 6 Claims. (Cl. 103—236.)



1. In a vacuum feed system, a tank having a receiving chamber, a vacuum connection to said receiving chamber terminating in a vertically directed nozzle, an air vent for the receiving chamber terminating in a vertically directed nozzle, a pair of cut-off disks disposed to control said nozzles, and a revolubly mounted float rigidly secured to the disks and adapted to operate the disks to open and close the vacuum connection and the air vent alternately.

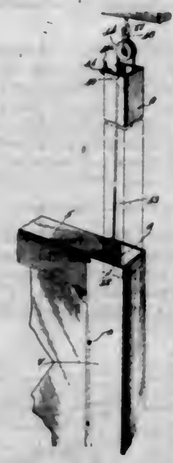
1,690,203. PAPER-MAKING MACHINE. NICKOLAS J. NIKS, Chillicothe, Ohio. Filed May 18, 1927. Serial No. 192,221. 19 Claims. (Cl. 92—44.)



1. In a paper making machine, a stock box, a stock retaining board pivoted thereto and a slice pivoted to said board, whereby an area for the accumulation of stock may be formed between the stock box and the slice.

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1,690,204. WINDOW. PEARL R. NYE, Chicago, Ill. Filed June 8, 1927. Serial No. 197,428. 4 Claims. (Cl. 20—52.)



1. A window installation comprising a frame, a sash movable therein, casings incorporated in the side edges of the sash, and shafts in the frame and telescoped by the casings during the movement of the sash, said shafts having longitudinal slots extending their entire length and toward the sash, counterweights movable within said telescoping parts, pulleys at the top of said frame, cords trained over said pulleys and connecting the sash and weight.

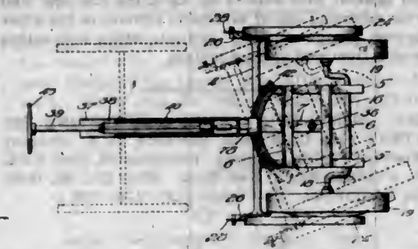
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1,690,205. TWO-WHEELED TRACTOR FOR CULTIVATORS AND OTHER MACHINES AND METHOD OF CONSTRUCTING SAME. DENT PARRETT, Chicago Heights, Ill. Filed Dec. 11, 1924. Serial No. 755,131. 10 Claims. (Cl. 180—12.)

1. In a machine of the character described, a frame, a power plant mounted on said frame, a transverse driving shaft casing immovably secured to said frame, an



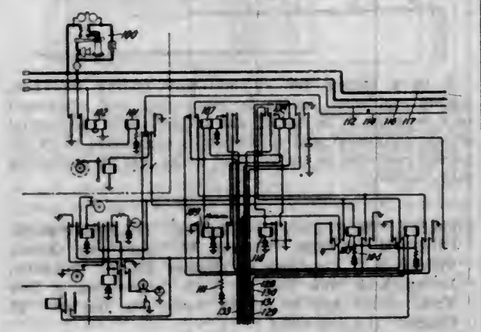
inverted U-shaped wheel axle pivotally mounted on said frame having wheel journals, said axle being pivoted to said frame in a manner to permit its journals to swing



to or from said casing, and adjustable rigid connections between the ends of said casing and said axle to adjust the position of said journals and hold the same against swinging movement.

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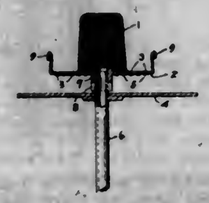
1,690,206. TELEPHONE SYSTEM. ARTHUR RAYNSFORD, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 4, 1927. Serial No. 196,449. 10 Claims. (Cl. 179—18.)



1. In a telephone system, an automatic switch, a series of elements to which said switch has access, means to characterize said elements as busy or idle, means to cause said switch to test said elements in succession and to connect itself with the next idle one, means to disconnect said switch from said element, and means thereupon effective only if said element lies within a particular group of said elements to return said switch to a position to test the first element of the series.

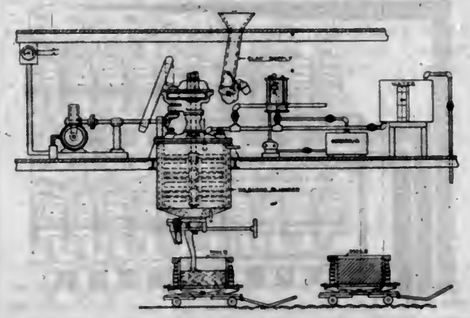
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1,690,207. GASOLINE STRAINER AND LINT CATCHER. FRANK C. REED, Nehalem, Oreg. Filed May 9, 1927. Serial No. 190,008. 4 Claims. (Cl. 210—170.)



1. A device of the type described comprising a disc having jagged portions for catching and retaining foreign substance floating in a gasoline tank and a strainer carried by said disc.

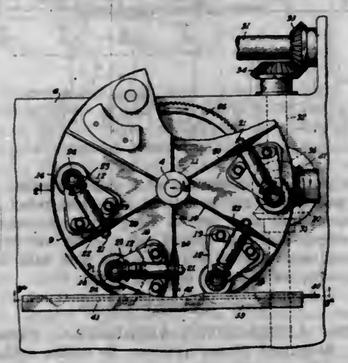
1,690,208. METHOD OF MAKING CERAMIC ARTICLES. DONALD W. ROSS and JAMES M. LAMMIE, Washington, Pa. Filed Mar. 31, 1925, Serial No. 19,737. Renewed Mar. 29, 1928. 25 Claims. (Cl. 25—156.)



1. The method of making ceramic articles, which comprises providing grog grains of assorted sizes, providing deflocculatable raw clay in quantity sufficient to bond the grog particles, providing a deflocculating agent, mixing water or other liquid with the above named materials, in quantity sufficient to form a paste, mixing the paste in a vacuum, and molding the paste so formed.

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1,690,209. TUBE-SEVERING MACHINE. CHARLES F. SMITH, Brooklyn, N. Y., assignor to Public Service Cup Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 1, 1926. Serial No. 138,817. 6 Claims. (Cl. 164—61.)



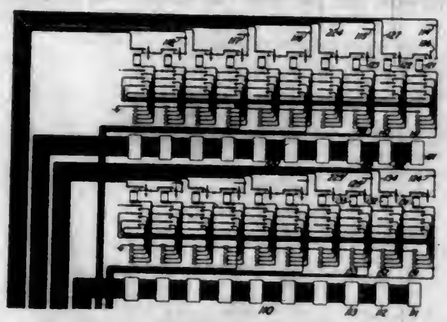
1. In a machine of the character described the combination of a rotatable cutter carrier, a cutter head on said carrier, a cutter mounted for rotation on an axis in a plane normal to the axis of rotation of said carrier, said cutter being disposed approximately radially on said carrier, means for rotating said carrier, means for rotating said cutter and a cutter head mounted for adjustment about a fixed vertical axis, a cutter fixed to a horizontal shaft in said cutter head, means for adjusting said head for moving said cutter toward and from the axis of rotation of said carrier.

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1,690,210. TELEPHONE SYSTEM. RAY L. STOKELY, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 188,918. 7 Claims. (Cl. 179—18.)

1. In combination, two groups of lines, each divided in sub-gronps, two finder switches, each serving one of said groups as first choice, means for operating one of said

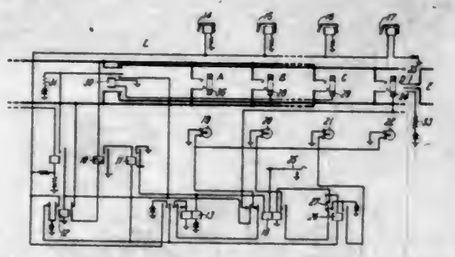
finders to simultaneously select a plurality of sub-groups, means for further operating the finder to select a line in one of the selected sub-groups, a third finder serving all



of the lines in both said groups, and means for operating said last finder to select a sub-group of lines and a line therein when the first choice finder is busy.

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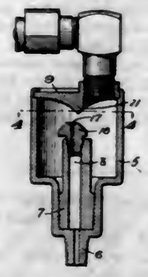
1,690,211. TELEPHONE SYSTEM. JOHN F. TOOMEY, New York, N. Y., and GEORGE H. DUHNKRACK, Jersey City, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1927. Serial No. 243,059. 9 Claims. (Cl. 179—41.)



9. In a signal transfer circuit, a signal, a relay, a second relay, and means for actuating said first relay to cause said signal and said second relay to be connected in a series circuit and said second relay to be operated whereupon said second relay locks in series with said first relay in a circuit independent of said signal.

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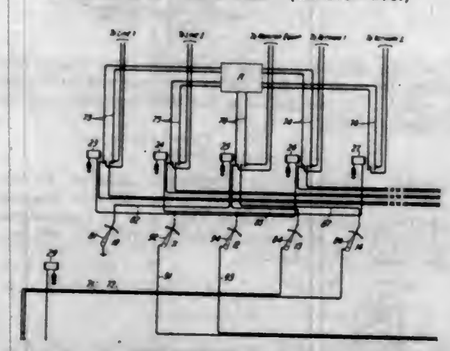
1,690,212. LUBRICATING APPARATUS. PRESTON UPHAM, Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 1, 1923. Serial No. 616,279. 3 Claims. (Cl. 184—105.)



1. An oil cup presenting a reservoir adapted to be filled from a source of supply under pressure, a part extending upwardly in said reservoir considerably above the bottom of the reservoir, said part presenting a discharge orifice, a top part presenting a surface sloping toward said discharge orifice to guide the lubricant into said orifice when splashed against said surface by agitating the cup, and means for adjusting one of said parts relative to the other part to vary the quantity of lubricant which said orifice may receive from said sloping surface.

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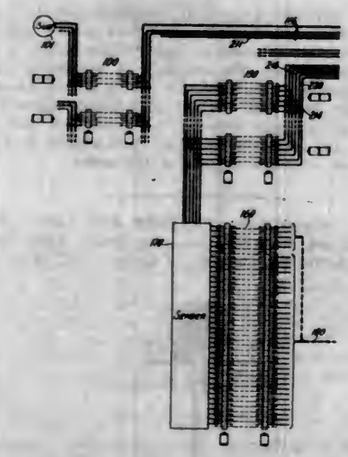
1,690,213. AUTOMATIC SYSTEM FOR TESTING REPEATERS. IRA G. WILSON, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1926. Serial No. 157,902. 24 Claims. (Cl. 179—175.)



1. In a system for automatically testing repeaters, testing equipment, means for connecting said equipment to a repeater to be tested, and means under the control of said equipment and automatically responsive to an abnormal condition in the repeater under test for indicating said condition.

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1,690,214. RESTRICTED-SERVICE TELEPHONE-EXCHANGE SYSTEM. WARREN W. CARPENTER, Queens Village, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1927. Serial No. 186,904. 15 Claims. (Cl. 179—27.)

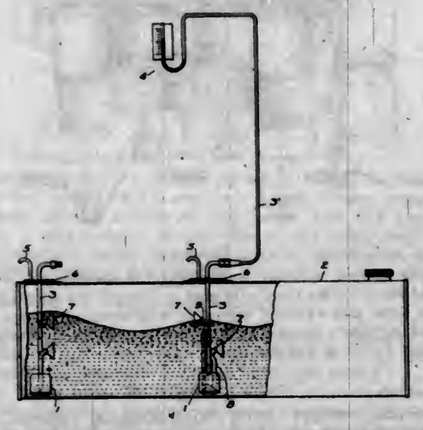


1. In a telephone system, subscribers' lines of a plurality of classes, a control device for controlling the establishment of connections from all classes of said lines, means for associating said control device with a calling line, selective means in said device under the control of said calling line, means for identifying the class to which said calling line belongs, and means under the joint control of said selective means and said identifying means to determine the manner in which said connection shall be completed.

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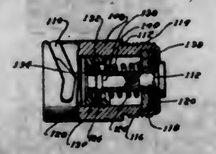
1,690,215. LIQUID-LEVEL GAUGE. MOSES E. CHENEY, La Crosse, Wis., assignor to National Gauge & Equipment Company, La Crosse, Wis., a Corporation of Delaware. Filed Oct. 25, 1927. Serial No. 228,578. 2 Claims. (Cl. 73—54.)



1. In a tank fitting for liquid level indicators, the combination of an air chamber placed near the bottom of the tank, a conduit extending vertically from and communicating with said chamber, a receiving member at the free end of said conduit, having walls diverging from the center thereof to present an enlarged opening at one end to receive the liquid and a reduced opening at its other end communicating with said conduit the latter having a substantially horizontal passage way for the liquid, and being curved to form an extension of said horizontal passage way and to merge in the vertical portion of said conduit, whereby surges of liquid will be deflected towards the reduced opening causing aerated liquid to enter the extension of the passage and pass downwardly through the conduit to the air chamber.

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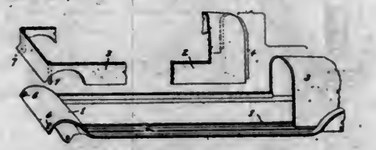
1,690,216. COUPLING. ERNEST W. DAVIS, Oak Park, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed May 12, 1927. Serial No. 190,695. 4 Claims. (Cl. 284—19.)



1. A female coupling member of the class described comprising, in combination, a sleeve having bayonet slots at its outlet end and a reduced threaded portion at its inlet end, a valve seat at said inlet end, a valve for said seat, a spring for normally maintaining said valve in closed position, spacing means extending from said valve outwardly through said valve seat, said means presenting a shoulder and a portion of reduced cross-section adjacent said shoulder, a metal washer and a cup leather mounted on said reduced portion and clamped against said shoulder by the turned-over end of said reduced portion, said cup leather serving to effect a lubricant tight seal with a male coupling element having a passage therethrough, said spring serving to press said cup leather against a male coupling element, and axial and lateral passages in said means for connecting the passage in a male coupling element with the interior of said sleeve.

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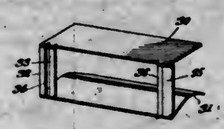
1,690,217. CHILD'S WHEEL TOY AND PROCESS OF MAKING THE SAME. THEODORE S. DOWST, Chicago, Ill. Filed Feb. 3, 1927. Serial No. 165,523. 2 Claims. (Cl. 46—48.)



1. A method of making a multicolor, cast metal, toy vehicle in quantity which comprises dividing the design of the completed toy along the lines of color change into separate body and chassis parts, constructing parts corresponding to the design parts by a die casting process, making the chassis and the body parts to coact upon assembly to form a unit and be readily separable, coloring the separate parts a uniform color by quantity coloring process and assembling the colored parts to form a completed toy vehicle.

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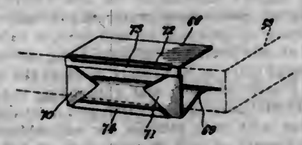
1,690,218. DISPLAY DEVICE. GEORGE F. EGAN, Jersey City, N. J. Original application filed Aug. 3, 1925, Serial No. 47,865. Divided and this application filed Nov. 28, 1927. Serial No. 236,295. 2 Claims. (Cl. 40—16.)



1. A display device comprising upper and lower clamping members, a pair of end straps extending between said members, a pair of inner straps also extending between said members in spaced relation to the end straps and offset inwardly from the end straps to receive a card between the end and inner straps, one of said end straps having a stop member extending rearwardly and inwardly from the outer edge thereof.

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1,690,219. DISPLAY DEVICE. GEORGE F. EGAN, Jersey City, N. J. Original application filed Aug. 3, 1925, Serial No. 47,865. Divided and this application filed Nov. 28, 1927. Serial No. 236,299. 2 Claims. (Cl. 40—16.)



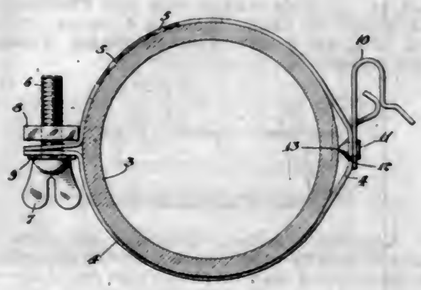
1. A display device comprising upper and lower members, end straps of substantially V-form connecting the end portions of said members, a strap extending longitudinally between the first mentioned straps and having a slot for receiving a card, and a ledge outwardly of the first mentioned straps and in alinement with said slot.

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1,690,220. GROUND CONNECTER. ASCHER P. FAHNESTOCK, Plandome, N. Y. Filed May 13, 1926. Serial No. 108,718. 1 Claim. (Cl. 173—273.)

In a ground wire attachment, a pipe gripping band having a flat central portion and confronting arcuate portions on each side terminating in opposed outwardly projecting

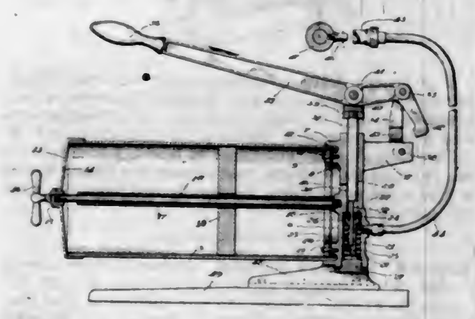
ends having registering bolt receiving openings, said flat portion being disposed diametrically opposite said ends and adapted to lie in spaced relation to the pipe on which the clamp is positioned, a rivet having a pointed head resting on the inside of the flat portion of the band and



adapted to have the point engage the material of the pipe, a ground wire clamp resting on said flattened portion, a second head on said rivet securing the ground wire clamp to the flattened portion, and a bolt passing through the bolt openings to draw the ends together and force the point of the rivet into the material of the pipe.

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1,690,221. LUBRICANT COMPRESSOR. DOUGLAS F. FESLER, Chicago, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 27, 1923, Serial No. 634,936. Renewed Oct. 21, 1926. 14 Claims. (Cl. 221—47.1.)

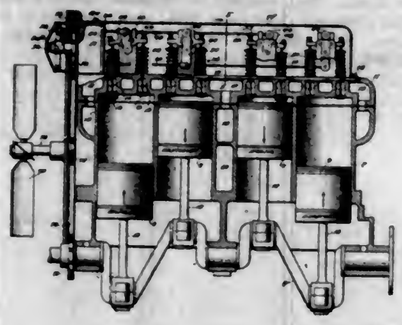


10. A lubricant compressor comprising a body having a bore, a plunger reciprocable in said bore, a valve overlying the end of said bore, said plunger being movable into contact with said valve to completely displace the contents of said bore, a valve chamber and a discharge conduit receiving the material passing said valve, and means operated in synchronism with said plunger for automatically decreasing the capacity of said chamber and conduit during the discharge stroke and increasing said capacity during return stroke, said means comprising an extension on said plunger and a central cylinder carried by said valve and slidably receiving said extension.

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1,690,222. VALVE GEAR FOR INTERNAL-COMBUSTION ENGINES. CHARLES W. FOERTSCH, Brooklyn, N. Y., assignor of one-half to Clarence P. Browning, New York, N. Y. Filed May 3, 1922. Serial No. 558,249. 12 Claims. (Cl. 123—90.)

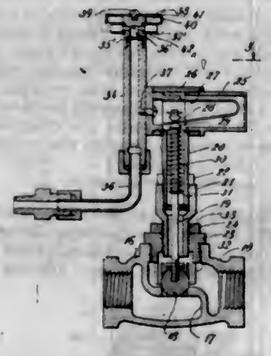
6. A multi-cylinder internal combustion engine embodying an overhead valve gear including a cam, having its operating face disposed substantially in a plane perpendicular to the axis of rotation of the engine crank shaft, a commutator mounted to operate in synchronism with said cam, means for driving said cam and said commutator from the crank shaft of the engine, a rocker arm for each



valve of each cylinder, and means for operating each of said rocker arms from said cam to control the opening of the inlet and exhaust valves of a predetermined one of said cylinders in synchronism with the intake and exhaust cycles of the engine.

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1,690,223. PILOT-LIGHT CONTROLLER. EDWARD L. FONSECA, Newark, N. J., assignor to The Wilcolator Company, Newark, N. J., a Corporation of Delaware. Filed Aug. 20, 1926. Serial No. 130,430. 9 Claims. (Cl. 158—115.)



1. A pilot burner comprising a tube, a plurality of tubular members mounted in the wall of a tube in communication with the interior thereof and projecting outwardly beyond the wall to constitute flame tips, and a shield mounted on the tube in proximity to the tips, this shield having a portion lying partially in the path of the flame issuing from said tips.

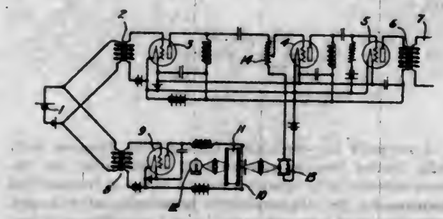
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1,690,224. WAVE-TRANSMISSION SYSTEM. EDGAR W. GENT, Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 1, 1926. Serial No. 112,851. 3 Claims. (Cl. 178—44.)

1. A wave transmission system comprising a source of electrical waves of varying amplitude, a transmission



medium, a space discharge amplifying device having an input circuit connected to said source and supplied with said electrical waves, and having an output circuit connected to said medium, an element in said input circuit the impedance of which to electrical currents varies in



accordance with the quantity of radiant energy impressed thereon, and means for supplying to said element radiant energy varying directly in accordance with the amplitude of said electrical waves, whereby the energy level of the electrical waves impressed on said medium by said amplifying device is controlled.

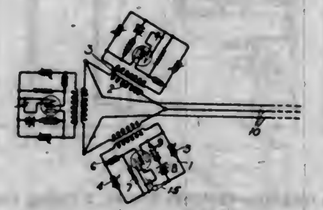
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1,690,225. OIL-FLOTATION PROCESS. ALBERT W. HAHN, Salt Lake City, Utah. Filed Oct. 5, 1926. Serial No. 139,755. 2 Claims. (Cl. 209—166.)

1. The process of recovering metals from their ores, which comprises treating the pulp containing the ore to the oxidizing action of bleaching powder in the presence of an alkaline substance and thereby precipitating oxides associated with the values to be recovered by changing them into higher oxides, and then adding a flotation agent and subjecting the pulp to a froth flotation process.

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1,690,226. PLURAL-PHASE GENERATION OR OTHER SYSTEM. RAYMOND A. HEISING, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1920. Serial No. 401,889. 17 Claims. (Cl. 250—36.)

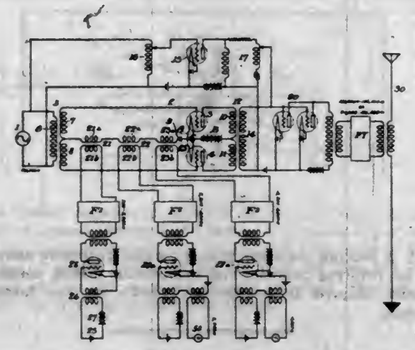


17. A system for the generation of plural phase current comprising electric discharge generators equal in number to the desired number of phases, and means for associating said generators to maintain them in synchronism and in the desired plural phase relation.

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1,690,227. TRANSMISSION BY MODULATED WAVES. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 28, 1923. Serial No. 621,710. 6 Claims. (Cl. 250—9.)

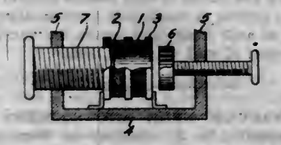
1. In a signaling system two modulator devices for modulating a carrier wave in accordance with a plurality of separate signaling waves, means for impressing in the same phase the plurality of separate signaling waves on the modulators, means for impressing the carrier wave upon the modulating devices in opposite phase whereby all of the signals are transmitted with a minimum of



cross modulation, and additional means for neutralizing the unmodulated component of the carrier wave frequency in the output circuit of said devices.

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1,690,228. HIGH-FREQUENCY TRANSFORMER. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Dec. 31, 1923, Serial No. 683,629. Divided and this application filed Aug. 20, 1925. Serial No. 51,305. 11 Claims. (Cl. 171—119.)



1. A coupling means for high frequency apparatus which comprises inductively associated coils, a resistance control element and an inductance control element respectively included in the magnetic fields of said coils.

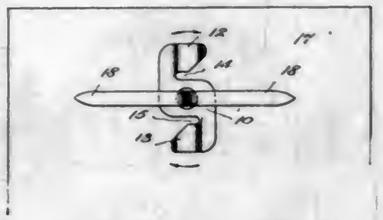
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1,690,229. WALL BOARD. WILLIAM M. JENKINS, Chicago, Ill. Filed Sept. 15, 1922. Serial No. 588,462. 4 Claims. (Cl. 154—45.9.)



1. A wall board, comprising a composition body provided with a reenforced margin comprising a channel-shaped reenforcing element straddling the edge of said composition, and enclosing a laminated reenforcement disposed between the edge of the composition and the connecting portion of the element.

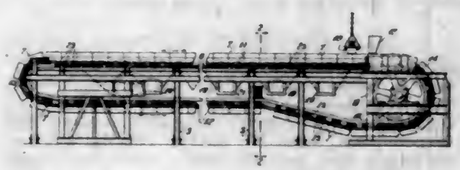
1,690,230. LOCK FOR PAPER FASTENERS. FRED J. KLINE, Long Island City, N. Y. Filed June 17, 1926. Serial No. 116,540. 7 Claims. (Cl. 24—153.)



2. A locking plate for pronged paper fasteners adapted to be revolved thereon and comprising dished confining means adapted to be flattened down on the fastener prongs.

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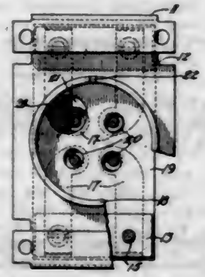
1,690,231. SINTERING MACHINE. BETHUNE G. KLUGH, Chicago, Ill., assignor to American Ore Reclamation Company, New York, N. Y., a Corporation of New York. Filed June 30, 1926. Serial No. 119,518. 15 Claims. (Cl. 266—21.)



15. In a sintering machine, an endless track, a plurality of pallets travelling about said track, magnetic means for controlling the travel of said pallets around said track to retain said pallets in contacting relation along a particular portion of said track, and means for varying the intensity of action of said magnetic means.

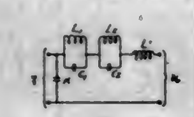
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1,690,232. VACUUM TUBE AND SOCKET. JOHN J. KUHN, Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 1, 1922. Serial No. 572,259. 1 Claim. (Cl. 250—27.5.)



In combination, a vacuum tube socket and a vacuum tube having terminal pins, means associated with said socket and tube for definitely positioning the tube relative to the socket consisting of a selector pin on the tube adjacent one of the tube terminal pins and an insulating plate on the socket having a large aperture for receiving both said selector pin and the adjacent terminal pin and a number of smaller apertures for receiving only the other terminal pins,

1,690,233. IMPEDANCE-CORRECTING NETWORK. KARL KÜPFMÜLLER, Berlin-Friedenau, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Aug. 23, 1921, Serial No. 494,519, and in Germany Sept. 10, 1919. 2 Claims. (Cl. 178—45.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



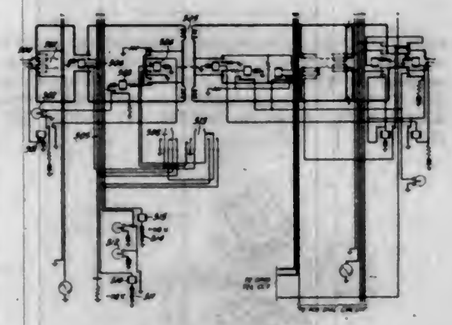
1. A network for combining with a long distance periodically loaded line to give to said combination an impedance substantially equal within the range of transmitted frequencies to the characteristic impedance of a homogeneous line, said network comprising a capacity of value, K, of the order of 0.3 to 0.325 $C_0$ in shunt to said line, an inductance of value

$$\frac{R_0\sqrt{L_0C_0}}{8}$$

and a parallel resonant circuit, said inductance and said parallel resonant circuit being connected in series with each other and with the line, $L_0$, $C_0$ and $R_0$ being the total values of inductance, capacity, and resistance, respectively, per loading section of said line.

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1,690,234. TRUNKING CIRCUIT TO CENTRALIZED OPERATOR'S POSITION. FREDERICK R. LAMBERTY, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 6, 1927. Serial No. 238,007. 8 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a calling line, a coin box thereon, an operator's position, a trunk circuit terminating thereat, means for extending said calling line to said trunk circuit, a cord circuit at said position for connection with said trunk circuit, coin box control keys associated with said cord circuit, a bridge across said trunk circuit comprising a plurality of relays, said relays being controlled by said keys, and means under the control of said relays for applying coin box operating current to said calling line.

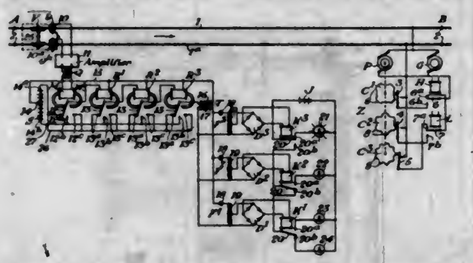
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1,690,235. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. SAMUEL M. LUCAS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed May 3, 1927. Serial No. 188,473. 12 Claims. (Cl. 246—63.)

1. Railway traffic controlling apparatus comprising a stretch of railway track, means for supplying periodically varying currents to said stretch, a main train carried relay



responsive to such variations but not to the current itself, a second relay controlled by said main relay and operating at a frequency higher than, but proportional to the frequency



of operation of the main relay, and governing means selectively responsive to the frequency of operation of said second relay.

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1,690,236. ANTHRAQUINONE VAT DYESTUFF. WALTER MIEG, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 20, 1926, Serial No. 82,588, and in Germany Jan. 21, 1925. 8 Claims. (Cl. 260—46.)

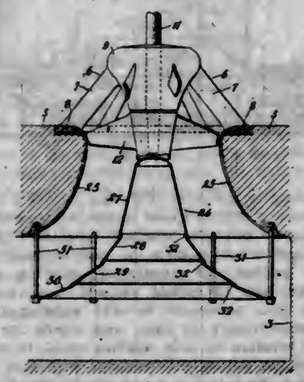
1. Process of producing vat dyestuffs of the anthraquinone series which consists in reacting with anhydrous aluminum chloride upon an anthraquinone derivative corresponding to the general formula

$$\begin{matrix} R \\ R_1 \end{matrix}\!\!>\!\!NH,$$

in which R stands for an anthraquinonyl residue and $R_1$ for hydrogen or an anthraquinonyl residue, in the presence of substantial amounts of a cyclic compound containing a tertiary nitrogen atom different from the anthraquinone derivative reacted upon.

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1,690,237. HYDRAULIC TURBINE. LEWIS FERRY MOODY, Philadelphia, Pa. Filed Oct. 31, 1923. Serial No. 671,828. 17 Claims. (Cl. 253—117.)

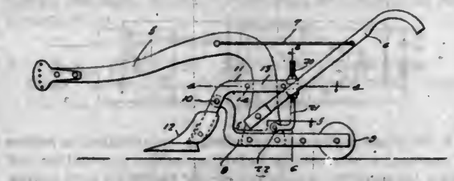


1. In a vertical shaft turbine a draft tube comprising an outer member flaring outwardly to discharge the flow in a direction transverse to the axis, an inner core member displacing the flow from the central portion of the draft tube and axially extending means for entirely supporting said core member from the flared outlet end of said outer member.

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1,690,238. ADJUSTABLE PLOW. JOSEPH MORGAN, Franklin, Tex. Filed Sept. 7, 1927. Serial No. 218,079. 3 Claims. (Cl. 97—109.)

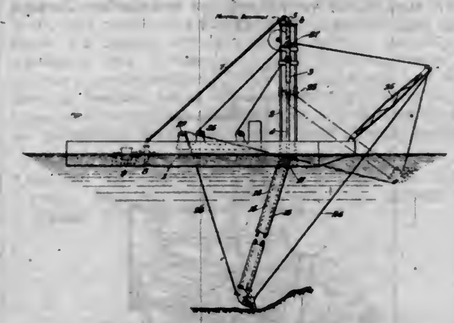
1. In combination, a plow beam, handle members carried thereby, a slide attached to the lower end of the beam, said slide having its forward ends extending upwardly in an S-shaped formation, a standard pivotally mounted on the upper end of said slide, said standard having one end extending forwardly and downwardly and adapted to support a plow sweep thereon, the opposite end of said standard extending rearwardly in bifurcated formation with the sec-



tions thereof disposed at opposite sides of the beam, a vertically disposed adjusting rod having a threaded upper end and its lower end angularly formed for attaching to the beam, and means for adjustably securing the threaded end of said rod to the rear end of said standard whereby to enable the vertical adjustment thereof.

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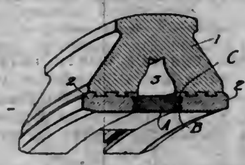
1,690,239. PLOW AND JET-ELEVATOR DREDGE. JOHN MALCOLM NICOL, Mill Valley, Calif. Filed Apr. 12, 1926. Serial No. 101,228. 3 Claims. (Cl. 57—61.)



1. In a pontoon dredge, the combination of a digging arm whose upper end is mounted on a trunnion that is suspended from a vertically movable platform, power means, for raising and lowering said platform, a hydraulic jet elevator in said digging arm for elevating excavated material, and telescoping conduits, respectively supplying said jet with pressure water, and conveying away excavated material.

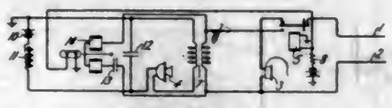
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1,690,240. METHOD OF MANUFACTURING TIRES. THOMAS NORCROSS, Erdington, England, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y., a Corporation of New York. Original application filed Aug. 26, 1925, Serial No. 52,499, and in Great Britain Aug. 27, 1924. Divided and this application filed Apr. 28, 1926. Serial No. 105,045. 3 Claims. (Cl. 29—152.)



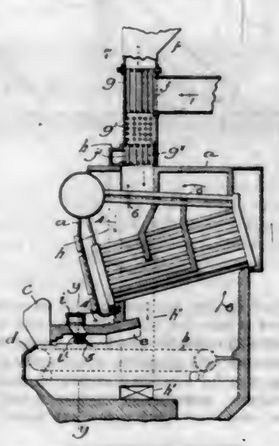
3. In the manufacture of cushion tires, the method which consists in providing a rubber body with base bands secured thereto, inserting a spacer ring between said base bands, and interlocking the base bands with the spacer ring by the application of pressure against the peripheral edge of at least one of said base bands.

1,690,241. TELEPHONE SYSTEM. HENRY W. O'NEILL, Elmhurst, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 31, 1926. Serial No. 98,666. 2 Claims. (Cl. 179—81.)



2. In a telephone set including a transmitter, a source of current, a receiver, an induction coil, a retardation coil and a transmitter, a primary circuit including said source, retardation coil, transmitter and one winding of said induction coil, a condenser connected in bridge of the series formed of said transmitter and said winding of the induction coil, a service lead normally connected to said receiver, and relay means connected in parallel with said condenser and responsive to current impulses generated by said transmitter for transferring said lead from said receiver to the other winding of said induction coil.

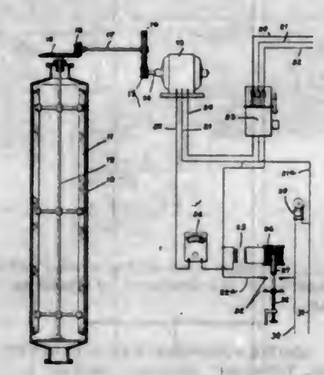
1,690,242. AIR PREHEATER FOR FURNACES. WILLIAM HENRY OWEN, Wimbledon, England. Filed Aug. 16, 1924, Serial No. 732,512, and in Great Britain Sept. 3, 1923. 1 Claim. (Cl. 122—1.)



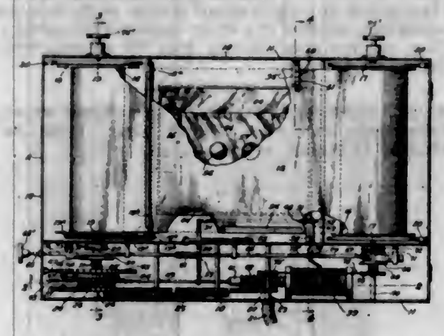
In a steam boiler provided with a flue for waste gases and a furnace having a grate, the combination with said flue of a final air heater, an economizer and a preliminary air heater disposed therein and arranged to be traversed by the gases in the order named, means for conducting part of the air heated in the preliminary heater therefrom to a point below said grate, and means for conducting the rest of the heated air from said preliminary heater through said final heater to a point above said grate.

1,690,243. APPARATUS FOR CONTROLLING CRACKING STILLS. WILLIAM C. PARRISH, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 16, 1924. Serial No. 706,707. 2 Claims. (Cl. 196—68.)

1. In the conversion of higher boiling hydrocarbons into lower boiling ones, the process that comprises maintaining a body of oil at a cracking temperature to cause the formation of lighter hydrocarbons and carbon, agitating said body of oil by means of a power operated agitating means, measuring the power employed in operating said agitating means, and continuing the operation with resultant accumulation of carbon and consequent increased resistance to the movement of the agitating means and stopping the run when the increased resistance, as measured by the amount of power employed in operating the agitating means, reaches a predetermined amount indicating the excessive production of carbon.



1,690,244. AUTOMATIC INDICATOR. JOHN A. PERIALE, Astoria, N. Y., assignor to The Periometer Co., Inc., Astoria, Long Island, N. Y., a Corporation of Delaware. Filed Dec. 30, 1925, Serial No. 78,436. Renewed Feb. 9, 1928. 9 Claims. (Cl. 40—42.)

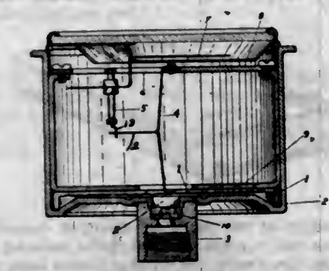


1. An automatic indicator including a casing having a window therein, a pair of spools journalled therein, one of said spools constituting a winding spool and the other the paying out spool, a strip of tape normally wound about said paying out spool for winding on said winding spool, sets of indicia on said tape, means for imparting a slow movement to said winding spool for a predetermined length of time, and means for imparting a rapid rotation to said winding spool to bring the respective sets of indicia into register with said window, said last means including a driven shaft operatively connected with said winding spool, a gear loosely mounted on said driven shaft, an electrically controlled rack engaging said gear, and ratchet means between said gear and said driven shaft for imparting a clockwise rotation thereto.

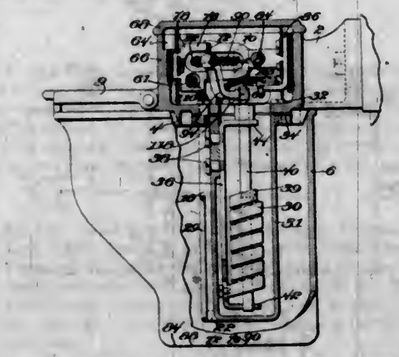
1,690,245. PRESSURE GAUGE. EDWARD REED POWELL, St. Louis, Mo., assignor, by mesne assignments, to Harvery G. Craig, St. Louis, Mo. Filed Oct. 29, 1920. Serial No. 420,473. 6 Claims. (Cl. 73—110.)

1. In a pressure gauge, a pressure-sensitive member, a pressure-indicating member, a bowed spring fixed at one end and having its other end contacting with said pressure-sensitive member, said bowed spring being adapted to be flexed intermediate its ends by movement of said pressure-sensitive member, and means connecting said pressure-indicating member to said bowed spring intermediate its ends for transmitting the flexing movement of said bowed spring to said pressure-indicating member.



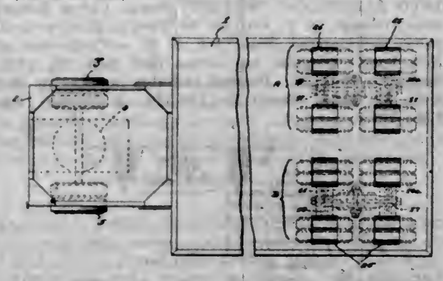


1,690,246. THREAD-WAXING DEVICE. EUGENE J. RAY, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 7, 1922. Serial No. 605,542. 11 Claims. (Cl. 219—19.)



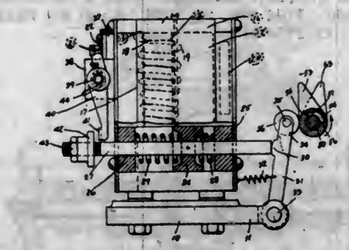
1. A thread waxing device having, in combination a wax receptacle, a heating device extending downwardly into the receptacle, a support for the heating device above the level of the wax and separate from the wax receptacle, means for guiding the thread through the receptacle in proximity to the heating device, and a thermostat mounted on the support and extending into the wax for controlling the temperature of the heating device.

1,690,247. HEAVY-DUTY VEHICLE. FREDERICK MALCOLM REID, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed June 23, 1926. Serial No. 117,944. 9 Claims. (Cl. 280—81.)



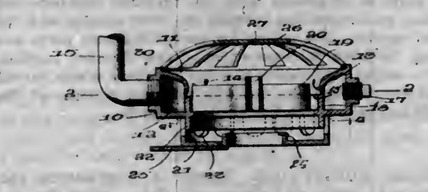
1. In a heavy duty vehicle, a truck comprising two pairs of wheels for supporting the vehicle, this truck consisting of a compact unit which is secured to the vehicle by a transverse pivotal connection and each pair of wheels being secured to the truck by a longitudinal pivotal connection, whereby the entire truck unit can move relative to the vehicle in a vertical plane only and the pairs of wheels can move relative to the truck in response to road irregularities.

1,690,248. ELECTRIC GENERATOR. BENJAMIN P. REMY, Indianapolis, Ind. Filed May 29, 1926. Serial No. 112,494. 8 Claims. (Cl. 123—149.)



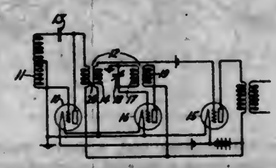
1. In a magneto, the combination of a magnetic path forming member having to and fro movement, a spring normally moving said member in one direction, a rotating shaft, cam means operable thereby for moving the member in the opposite direction and including a plurality of angularly offset portions for timing variation, means for causing a predetermined cam portion to actuate said path forming member, and a slip relief driving connection interposed between said rotating shaft and the cam means for permitting quick return of the path forming member.

1,690,249. OIL BURNER. ERNEST L. REYNOLDS, Tulsa, Okla. Filed Oct. 24, 1927. Serial No. 228,392. 5 Claims. (Cl. 158—63.)



1. In an oil burner of the character described, a closed oil heating chamber having an inner passage to produce a combustion chamber which is surrounded by the closed oil heating chamber, said heating chamber having apertures in its inner wall, leading into the combustion chamber, means to supply oil to the oil heating chamber, means whereby air is supplied to the bottom of the combustion chamber, and a mixing device, arranged within the combustion chamber.

1,690,250. RADIO SIGNALING SYSTEM. ALFRED W. SAUNDERS, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 21, 1925. Serial No. 44,989. 5 Claims. (Cl. 250—20.)

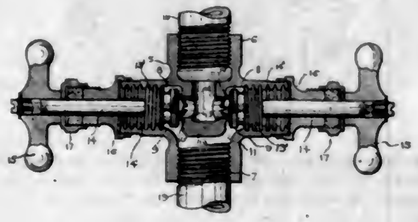


1. In combination, an antenna, a high frequency amplifier, a detector and an oscillator, each having an input

circuit and an output circuit, means for connecting the input circuit of the amplifier to the antenna, and a transformer having windings inductively associated for coupling the output circuit of said amplifier to the input circuit of said detector, for coupling the input and output circuits of said oscillator and also for coupling said oscillator to said detector.

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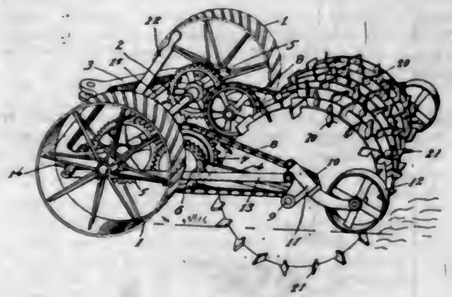
1,690,251. VALVE. LOUIS SCHLESINGER and HERMAN E. HEINE, Milwaukee, Wis., assignors to Bradley Washfountain Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 21, 1925. Serial No. 70,556. 1 Claim. (Cl. 277—57.)



A valve, comprising a casing having an upper inlet opening and an alined lower outlet opening and opposite side threaded openings in alinement with each other, all of said openings being alined in a vertical plane, said casing also having a depending central partition of less diameter than the bore of the casing to form a space between the two parts, said partition provided with opposite ports in alinement with the threaded openings and opening communication between the inlet opening and the outlet opening, and valves for controlling said ports and having threaded portions engaging the threaded portions of the casing, said valves also having stems which extend outwardly through the opposite threaded portions of the casing and have handles on their outer ends.

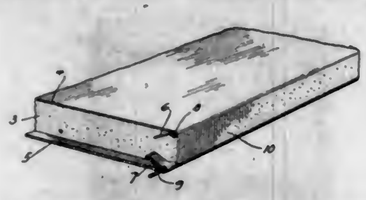
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1,690,252. CULTIVATOR. ERNEST A. SCHUMACHER and HARRY E. WESSLING, Cincinnati, Ohio. Filed Oct. 11, 1923. Serial No. 668,009. 1 Claim. (Cl. 97—215.)



In a rotary soil treating tool, a shaft, discs mounted thereon, said discs having interspaced spading blades arranged in alternate angular position with relation to the axes of said discs, said blades extending from the outer peripheries of said discs for the purposes described.

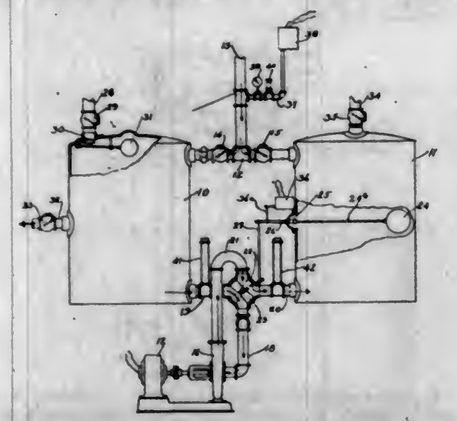
1,690,253. REENFORCED-EDGE PLASTER BOARD. JOHN SCHUMACHER, Los Angeles, Calif. Filed Oct. 12, 1925. Serial No. 61,981. 7 Claims. (Cl. 154—45.9.)



1. A product of the character described comprising a cementitious core, a cover sheet of pliable material underfolded at the edge corner, the creased portion being beaded to form an edge corner and corner guard, and the cementitious core being exposed at the edge.

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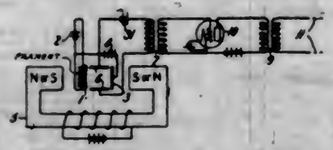
1,690,254. FLUID-HANDLING, SUCTION AND PRESSURE CREATING APPARATUS. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Apr. 23, 1925. Serial No. 25,455. 10 Claims. (Cl. 103—3.)



1. An apparatus for withdrawing fluids from a source of supply, separating the air and liquid therefrom and then discharging the liquid from the apparatus, said apparatus embodying two receivers, a centrifugal pump, and means for automatically controlling the suction and discharge of the pump for causing liquid to be alternately pumped from one of said receivers to the other whereby alternate suction and pressure will be created within each of said receivers.

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1,690,255. SYSTEM FOR CONVERTING SOUND WAVES INTO ELECTRICAL WAVES. HOMER CLYDE SNOOK, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporated of New York. Original application filed Sept. 22, 1922, Serial No. 589,813. Divided and this application filed Sept. 23, 1924. Serial No. 739,330. 5 Claims. (Cl. 179—121.)



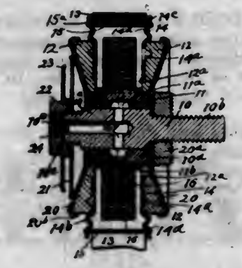
1. An arrangement for converting sound into electrical changes which comprises means for establishing an ionized



field in a body of gas exposed to variations in pressure due to sound, means for superimposing thereon a stead electromagnetic field and means for producing an electrostatic field in said body of gas.

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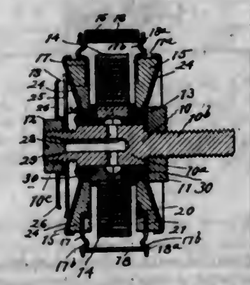
1,690,256. SHOCK ABSORBER. JACOB R. SNYDER, Cleveland, Ohio, assignor to The Star Rebound Controller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 9, 1924. Serial No. 731,014. 10 Claims. (Cl. 267—10.)



1. In a shock absorber, a rotatable drum, a spring adapted to rotate the drum in one direction, a strap adapted to be wound onto and unwound from the drum said drum being composed of a pair of non-metallic side members by which the drum is supported and a metallic outer portion with side portions engaging the non-metallic side members.

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1,690,257. SHOCK ABSORBER. JACOB R. SNYDER, Cleveland, Ohio, assignor to The Star Rebound Controller Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Aug. 9, 1924, Serial No. 731,014. Divided and this application filed Aug. 9, 1924. Serial No. 731,015. Renewed Mar. 31, 1928. 6 Claims. (Cl. 267—10.)

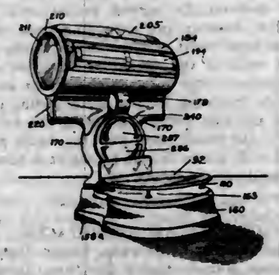


1. A shock absorber comprising a drum, a strap engaging the same, the drum having a portion which is rotatable in opposite directions and whose movement is frictionally resisted and with respect to which the strap engaged portion of the drum is capable of a limited free movement.

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1,690,258. WEIGHING SCALE. THOMAS H. STRACHAN, Dayton, Ohio, assignor to Dayton Scale Company, Dayton, Ohio, a Corporation of New Jersey. Filed Aug. 1, 1925. Serial No. 47,472. 31 Claims. (Cl. 265—39.)

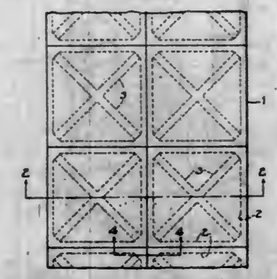
1. A weighing scale construction, including the combination with a weighing scale assembly complete in itself and built up in completely assembled and sealed condition as an operative weighing device, of cover devices therefor comprising base casing elements, column casing elements



and drum casing elements, said elements being constructed to be assembled and secured to the weighing scale assembly after the latter has been sealed.

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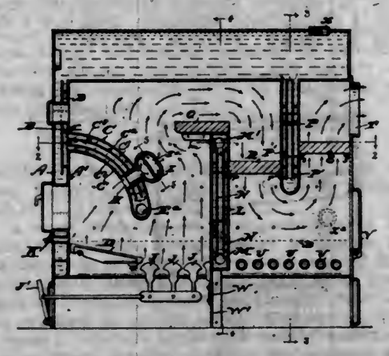
1,690,259. PAVEMENT. JOSEPH B. STRAUSS, Chicago, Ill. Filed Dec. 30, 1922. Serial No. 609,833. 5 Claims. (Cl. 94—12.)



2. A paving system comprising a series of corner posts having recesses at the top, cushion material in said recesses, caps in said recesses and projecting above the posts, and a series of slabs carried by said caps.

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1,690,260. BOILER FURNACE AND GARBAGE INCINERATOR. HENRY E. WALLIS, Detroit, Mich. Filed Apr. 15, 1926. Serial No. 102,115. 12 Claims. (Cl. 122—2.)

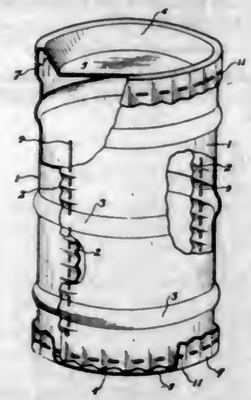


1. A boiler-furnace including an inner and an outer shell, spaced apart to form a water chamber surrounding the combustion chamber formed by the inner shell; baffle plates dividing the water chamber between the inner and

outer shells, whereby the water between the outer wall and the baffle plates may flow downwardly and thence upwardly between the baffle plates and the inner shell to the space above the combustion chamber; a hollow rearwardly and downwardly curved smoke arch located in the combustion chamber and extending from side wall to side wall and from front wall rearwardly, the inner shell of the front wall of the furnace having an opening to establish communication between the water chamber and the smoke arch, the latter having ports leading through the inner shell of the side walls, connecting the arch with the space between the inner shell and the baffle plates; and a plurality of baffle plates in said smoke arch running parallel with the walls of the latter.

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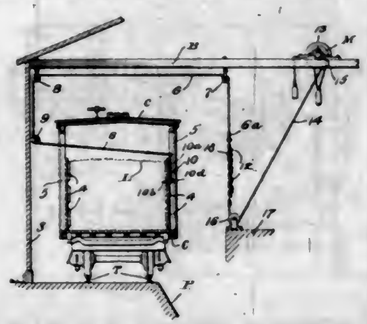
1,690,261. SHEET-METAL RECEPTACLE. VIRGIL P. WENDLE and MARTIN L. HUNKER, Dover, Ohio, assignors to The Reeves Manufacturing Company, Dover, Ohio, a Corporation of Ohio. Filed Mar. 15, 1926. Serial No. 94,772. 6 Claims. (Cl. 220—5.)



1. A receptacle formed of a plurality of sheet metal members having overlapping, uniformly corrugated edge portions provided with spaced apertures, the apertures in the respective overlapping portions being so aligned that a wire may be inserted through the apertures without distortion of the wire, and straight wires located through said apertures for attaching said members together.

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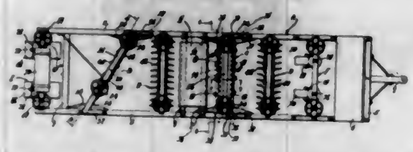
1,690,262. APPARATUS FOR REMOVING GRAIN DOORS. ANDREW WESTLING, Minneapolis, Minn., assignor to Concrete Elevator Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 6, 1928. Serial No. 244,905. 5 Claims. (Cl. 294—1.)



1. Apparatus for removing grain doors from freight cars having in combination, a relatively stationary support, a guide member mounted on said support in position to be disposed at one side of a freight car opposite a doorway thereof and at a height somewhat above the upper edge of the top grain door at said side, a flexible member passing through said guide member and adapted to be extended through the car transversely thereof and to the opposite side, an extricating hook connected to the end of said flexible member and adapted to be disposed below the lower edge of the top grain door at said opposite side of the car, and means for transmitting pull upon said flexible member to withdraw said top grain door and cause the same to move inwardly and upwardly over the grain within the car.

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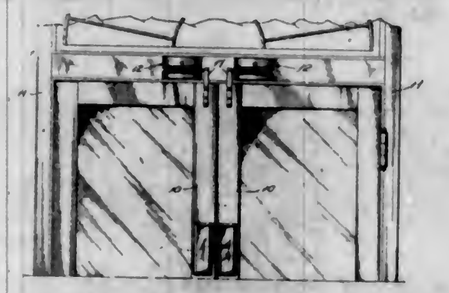
1,690,263. ROAD-WORKING MACHINE. EARL A. WHEELER, Los Angeles, Calif., assignor to Standard Road Maintenance Company, Los Angeles, Calif., a Corporation of Nevada. Filed Dec. 10, 1925. Serial No. 74,450. 7 Claims. (Cl. 37—145.)



1. The combination with a road working tool of a scarifying unit comprising a rectangular block, top and bottom plates being secured to and projecting at their sides over the side of the said block and having recesses formed therein, the recesses of the lower plate being vertically aligned with the recesses in the upper plate, bar scarifier members mounted in the said recesses, and means for holding the bar scarifier members within the said recesses.

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1,690,264. AUTOMATIC DOOR CLOSING AND LOCKING DEVICE. CLINTON L. WOLFE, Brooklyn, and JOSEPH A. FAUROT, New York, N. Y. Filed July 18, 1923. Serial No. 652,434. 5 Claims. (Cl. 70—50.)

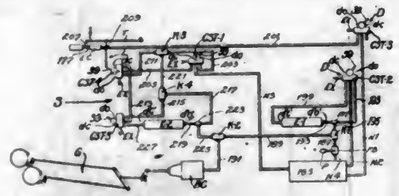


1. The combination with a door of a door closing and locking arrangement comprising a spring influenced pulley member, flexible means connecting said door to said pulley member, means for locking said pulley to prevent the opening of said door, means for holding said door open, and electrically controlled means for simultaneously releasing said door holding means, and actuating said pulley locking means from a distant point.

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1,690,265. DOOR CONTROL FOR AUTOMOTIVE BUSSES. RUFUS W. BAILEY, Kansas City, Mo. Filed Dec. 15, 1924. Serial No. 755,901. 10 Claims. (Cl. 303—6.1.)

6. A pneumatically controlled door opening system for motor coaches, operable to open the rear door by an operator outside the coach when the door is shut irrespective of the positioning of passengers within the coach, and operable to open said door by one of two operators within the coach only upon a predetermined specific positioning



of passengers within the coach and operable by the other of said two operators independently of said specific positioning.

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1,690,266. SHAFT FOR GOLF CLUBS AND THE LIKE. HAROLD G. BARRETT, Wilmette, Ill., assignor to Barbarite Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 7, 1925. Serial No. 67,531. 10 Claims. (Cl. 273—80.)



1. A shaft for golf clubs embodying a tubular nonmetallic casing, a core telescoped into and fitting within the casing, and means securing the ends of the core and casing together, the portions of the core and casing intermediate the said securing means being free for slight relative movement.

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1,690,267. PHONOGRAPH. ROBERT Y. BARROWS, Rutherford, N. J., and HAROLD P. CURTIS, New York, N. Y., assignors to Robert Y. Barrows, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 27, 1921. Serial No. 440,384. 9 Claims. (Cl. 192—41.)



1. In a phonograph, a motor driven spindle, a record supporting table having a circumferential weight attached thereto adjacent the periphery thereof, and means for clutching said table to said spindle for a one-way movement only, said means including a two-part hub attached to and removable with said table.



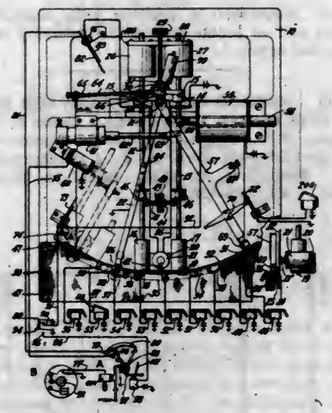
1,690,268. REVERSE-PLATING DEVICE FOR CIRCULAR-KNITTING MACHINES. HANS BARTH, Dresden, Germany. Filed Apr. 8, 1927, Serial No. 182,121, and in Germany Apr. 10, 1926. 3 Claims. (Cl. 66—108.)




1. In a circular knitting machine, a reverse-plating device comprising reversing sinkers having serrated shoulders wherewith to support the yarn, and means for imparting to said sinkers a movement in opposite direction to the sinking movement so as to reverse the relative positions of the yarns in the needle head before the loop is formed.

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1,690,269. TESTING DEVICE. WILLIAM T. BOOTH, Flushing, and ARTHUR C. MAGRATH, New Dorp, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 21, 1924. Serial No. 745,030. 5 Claims. (Cl. 177—380.)



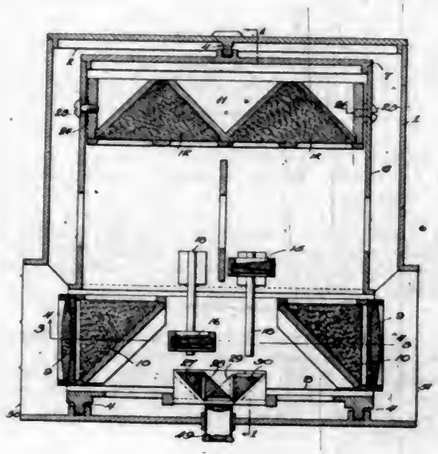
1. A dial tester consisting of a gravity pendulum, a magnet for holding the pendulum off-center, a pointer, a magnet for holding the pointer to the pendulum, an impulse sender, and circuits controlled by said impulse sender for successively deenergizing said magnets at the beginning and termination of a set of impulses transmitted by the sender.

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1,690,270. OPTICAL INSTRUMENT. FELIX H. CARSOW, Vallejo, Calif. Filed Aug. 16, 1926. Serial No. 129,421. 15 Claims. (Cl. 88—2.7.)

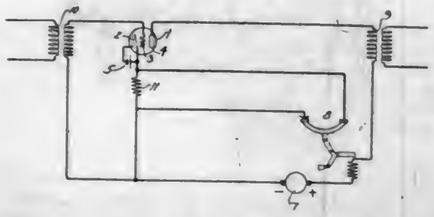
1. A range finder comprising in combination a casing having light passage tubes extending in opposite directions therefrom, a central inner casing mounted in said first mentioned casing, said central inner casing mounted in said first mentioned casing, said central inner casing being arranged to receive a removable carrier at each end thereof, reflectors mounted in each of said carriers, objective lenses mounted adjacent the reflectors in the end of said carrier adjacent said light passage tubes, optical means for receiving light rays and directing said rays through said objectlve lenses onto the reflectors adjacent thereto where they are directed toward said

reflectors at the opposite end of said carrier, measuring and halving prisms interposed in the path of light reflected by said last mentioned reflectors and each independently adjustable in position with respect to said reflectors and an ocular system for observing the images of a distant object.



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1,690,271. METHOD OF AND MEANS FOR PROTECTING ELECTRICAL APPARATUS. LEWIS M. CLEMENT, Yonkers, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 12, 1923. Serial No. 674,199. 18 Claims. (Cl. 250—27.)

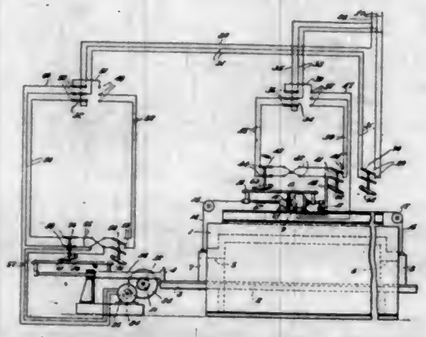


1. The method of protecting electrical apparatus from abnormal current in a circuit including an electric discharge device and its associated input and output circuits having a common portion, which comprises utilizing an effect produced by the flow of abnormal current in one of said circuits to initiate the supply of current to said common portion, whereby the relative potentials impressed upon the electrodes of the device are regulated and the current supplied to the apparatus is limited to a safe value.

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1,690,272. FURNACE DOOR AND PUSHER INTERLOCK. FRANK T. COPE, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a Corporation of Ohio. Filed Mar. 5, 1925. Serial No. 13,133. 2 Claims. (Cl. 214—23.)

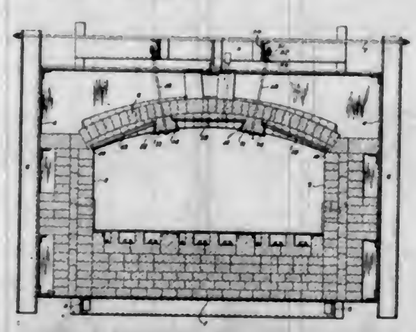
1. In combination with a furnace, a door and a pusher for moving material into the furnace when the door is in the opened position, a motor for operating the door, a switch controlling the door motor, a motor for operating the pusher, a switch controlling the pusher motor, an interlock switch in parallel with the pusher motor switch, a sliding bar operated by the door motor, switches engaged by the sliding bar to stop the door motor when the door is



in the fully opened or fully closed position, said sliding bar engaging the interlock switch to close it only when the door is in the fully opened position.

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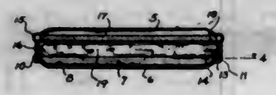
1,690,273. ELECTRIC FURNACE. FRANK T. COPE, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a Corporation of Ohio. Original application filed Nov. 9, 1925, Serial No. 67,810. Divided and this application filed Jan. 12, 1927. Serial No. 160,634. 7 Claims. (Cl. 266—1.5.)



1. An electric furnace including a refractory roof, spaced independently detachable blocks having ledges upon the under side of the roof supported independently of the roof and rigid resistor grids supported at their end portions only upon said ledges.

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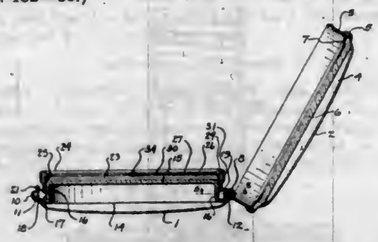
1,690,274. VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 27, 1925. Serial No. 33,111. 5 Claims. (Cl. 132—83.)



1. A toilet case having bottom and top comprising a convexed portion and a flat central portion whereby its thickness at the perimeter is less than at the center, and a cylindrical side wall in combination with a toilet compact having a convex bottom and substantially flat exposed face securely held in the concave shaped interior of the box.



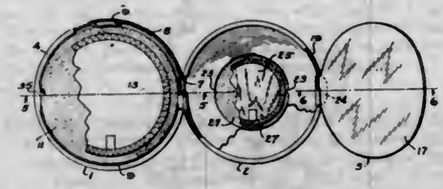
1,690,275. VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed June 26, 1925. Serial No. 39,643. 13 Claims. (Cl. 132—83.)



1. A vanity box comprising a cup and a cooperating member forming a chamber therebetween, said cup having a dispensing perforation therein, means whereby said member is movable relative to said cup to change the size of said chamber and thereby dispense the contents thru said perforation, and a valve plate pivoted to said cup for effectively closing said perforation to prevent escape of the contents of said chamber when filling said cup with said contents, said cup and member being detachable for filling.

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1,690,276. VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 7, 1926. Serial No. 127,722. 14 Claims. (Cl. 132—83.)



1. A vanity case comprising a curved dished cover member made of sheet material and having a bottom and an annular inturned curled edge forming a projecting flange and a recess in said edge, an annular pintle wire sprung under said flange, said wire having offset portions extending inwardly along said bottom, a cooperating section having a knuckle in said recess and traversed by said wire, a curved dished compact holder sprung under said offset portions and thereby spaced from said knuckle.

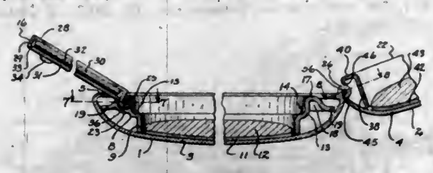
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1,690,277. SECTIONAL-WALL VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 8, 1926. Serial No. 134,176. 12 Claims. (Cl. 132—83.)



1. In a box, a cover comprising a ring member and a central member, said members each forming a portion of the wall of said cover, a co-operating section, means for separably connecting said ring member and section including an independent element, and means for detachably securing said central member to said ring member including said independent element.

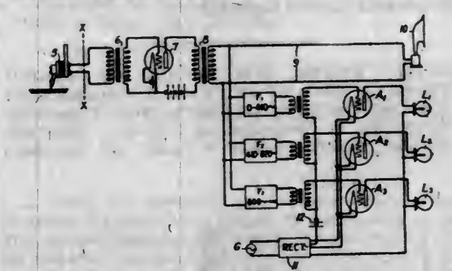
1,690,278. VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 17, 1926. Serial No. 136,005. 15 Claims. (Cl. 132—83.)



1. A vanity case comprising a base section, a removable base bezel ring in said section and having an upstanding annular ridge with an inner seat, a cooperating section adapted to seat in said seat, said ridge having a recess, hinge means located in said recess pivotally connecting said cooperating section to said ridge, said ridge being spaced radially from the edge of said base section to form an annular clearance space within said base section below said edge, and a third section having a part adapted to enter said space.

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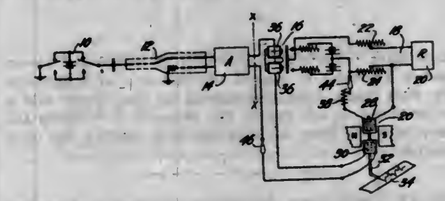
1,690,279. APPARATUS FOR THE VISUAL INTERPRETATION OF SPEECH AND MUSIC. EDWARD B. CRAFT, Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 6, 1925. Serial No. 60,715. 2 Claims. (Cl. 84—464.)



2. In a system for associating light and sound, a circuit including a source of electric waves, means for converting said waves into audible effects, a plurality of channels connected in parallel with said circuit, a wave filter in each of said channels for transmitting a predetermined range of frequencies, a space discharge device in each of said channels, and an electric lamp in the output of each of said devices.

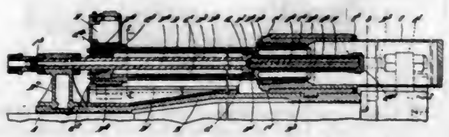
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1,690,280. ELECTRICAL TESTING. AUSTEN M. CURTIS, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 27, 1926. Serial No. 91,232. 7 Claims. (Cl. 178—69.)



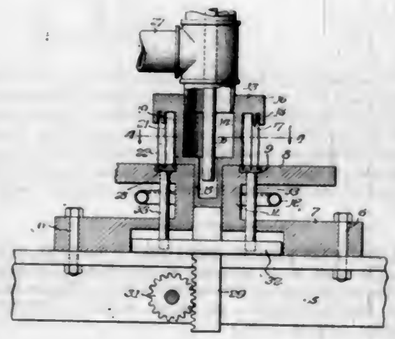
1. Means for relaying electrical impulses, indicating means for receiving the relayed impulses, and means for recording only changes in the characteristics of said impulses that occur during their transmission through said relaying means.

1,690,281. RECOIL AND RUN-OUT APPARATUS FOR ORDNANCE. ARTHUR TREVOR DAWSON, GEORGE THOMAS BUCKHAM, and JAMES FLEMING WHITE, Westminster, England, assignors to Vickers Limited, London, England, a British Company. Filed Aug. 9, 1927, Serial No. 211,736, and in Great Britain Jan. 13, 1927. 8 Claims. (Cl. 89—43.)



1. In ordnance recoil and run-out apparatus, the combination with the recoil or brake cylinder and the recoil or brake piston forming the elements of the recoil apparatus, one of these elements being connected to the gun and the other to the gun cradle, of a pneumatic recuperator cylinder which is arranged in line with the recoil or brake cylinder and the interior of which does not communicate with the interior of the latter cylinder, and a ram on the recoil apparatus element that moves relatively to said recuperator cylinder, said ram effecting the compression of the air within said recuperator cylinder during the recoil movement of the gun and effecting the run-out movement of the gun under the influence of the compressed air after the recoil movement has been completed.

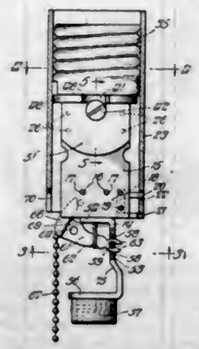
1,690,282. FILTER AND METHOD OF MAKING. FRENCH E. DENNISON and WARD S. IRELAND, Beloit, Wis., assignors to National Refrigeration Corporation, Beloit, Wis., a Corporation of Delaware. Filed Jan. 29, 1926. Serial No. 84,574. 6 Claims. (Cl. 210—154.)



1. A filter comprising a plurality of cylindrical screen elements arranged in spaced relation and of a decreasingly finer mesh from the outside to the inside, and a member fused to one end of the elements for sealing the spaces between them at said end and uniting the said elements.

1,690,283. BRACKET SOCKET. VICTOR R. DESPARD, Valparaiso, Ind., assignor to McGill Manufacturing Company, a Corporation of Indiana. Filed Oct. 30, 1925. Serial No. 65,778. 20 Claims. (Cl. 173—354.)

1. In a device of the character described, a screw shell having an inturned flange and an apertured ear extending from said flange, insulating supporting means for said screw shell, a holding member engaging said flange within said screw shell and provided with an apertured ear



projecting therefrom to the exterior of said shell and securing means passing through said apertures and said insulating means.

1,690,284. DISPLAY-ADVERTISEMENT ATTACHMENT FOR CIGAR LIGHTERS. EDWARD L. DOTY, Fordham, N. Y. Filed Sept. 15, 1927. Serial No. 219,719. 2 Claims. (Cl. 40—146.)



1. In an advertising attachment for a cigar lighter for public use, and including a holder in which advertising cards may be displayed, the combination therewith of an extension arm therefrom formed at its end with an arcuate surface; a shoe formed with an arcuate groove conforming with the arcuate surface and width of the arm and slidable relatively thereto; means for adjustably securing the arcuate surfaces together; and means clamping the shoe to the supply pipe of the cigar lighter.

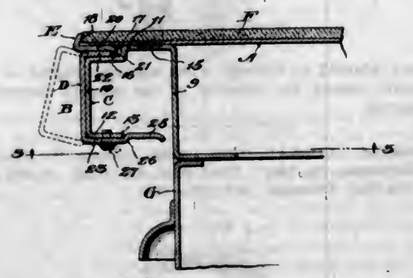
1,690,285. WEATHER HOOD OF BOATS. IVAN RUPERT FLEMING, Ainsdale, Lancaster, England. Filed Apr. 10, 1922, Serial No. 551,393, and in Great Britain Sept. 9, 1921. Renewed Feb. 27, 1926. 2 Claims. (Cl. 135—6.)



1. A protective hood for boats, including a series of arched bows mounted for sliding movement relative to the gunwale of the boat, a hood connected to and movable with the bows and adapted to have its free edge, when the hood is in operative position, overlie the edge of the gunwale of the boat, a flap permanently secured to the gunwale of the boat and adapted, when the hood is extended, to project materially above the juncture of the gunwale of the boat and the free edge of the hood, and means for securing the flap to the bows.

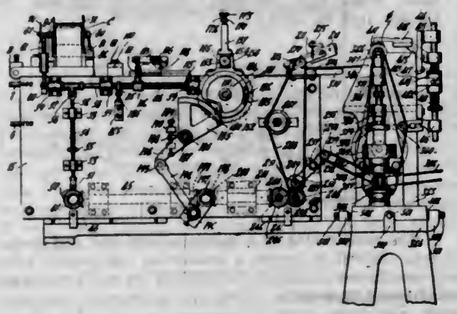


1,690,286. EDGE CONSTRUCTION FOR FURNITURE TOPS. JASON A. FITCH and GEORGE C. BRAINARD, Youngstown, Ohio, assignors to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,185. 16 Claims. Cl. 45—31.)



14. An edge construction for furniture tops including in combination, a top member, a covering supported by said top member, a bead strip extending along and embracing the edges of the top member and the covering, a supporting member carried by the underside of the top member and spaced from the outer edge thereof, a facing strip separate from said bead strip but adapted to engage the same to hold it in position, and means on said facing strip for connecting it with the supporting member.

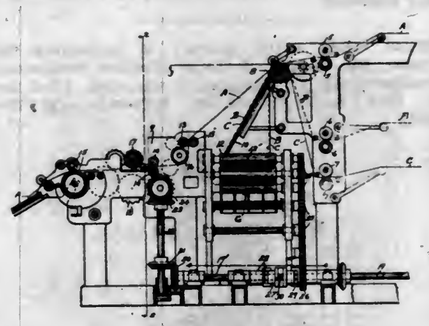
1,690,287. METHOD AND MACHINE FOR MAKING PAPER TUBES. JOSEPH N. FRANCIS, Woburn, Mass., assignor to Standard Coin Wrappers, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1925. Serial No. 23,497. 17 Claims. (Cl. 93—81.)



3. In a tube forming machine, means for winding a strip into tube form, and a hook movable against one end of the tube to turn said end inwardly to form a circumferential bead, and then movable toward the axis of the tube so that it may be withdrawn without hindrance from said bead.

1,690,288. DELIVERY MECHANISM FOR PRINTING PRESSES. HARRY GEARING, Los Angeles, Calif., assignor to Nebraska Printing Company, Lincoln, Nebr. Filed June 23, 1927. Serial No. 200,784. 6 Claims. (Cl. 270—41.)

1. In combination with a printing press for delivering printed sheets continuously therefrom, of a folding horn to receive the paper and guide it to folding rollers, folding rollers to receive and fold said paper, a guide roller for guiding said paper to said folding horn, other rollers parallel with said guide roller to receive said sheet therefrom, moving above said folding horn, said latter rollers being positioned at substantially right angles to said folding rollers and all of said rollers being fixedly supported, for the purpose described.

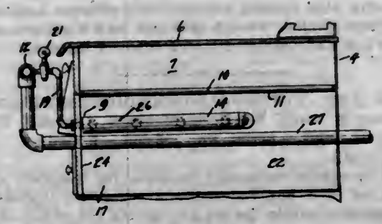


1,690,289. STEERING-GEAR CONTROL. WILLIAM CHARLES GEE, Rock Ferry, England. Filed Nov. 29, 1926, Serial No. 151,538, and in Great Britain Aug. 26, 1926. 2 Claims. (Cl. 280—89.)



1. Means for preventing the steering wheels of self-propelled vehicles from wobbling, in combination an axle tree, pivoted stub axles on the ends of same, steering arms on said stub axle parts, a flexible connecting medium connected with said steering arms, a rotative barrel over which the said flexible medium is passed, a case in which the said barrel is disposed connected with and supported from the axle tree, a spring above the barrel and case, adapted to act on the barrel to serve as a frictional resistance to its rotation, and a screw adjusting device on the upper end of the spring to vary the friction braking action on the barrel.

1,690,290. GAS-KINDLING-BURNER INSTALLATION. FREDERICK A. GERCICH, Oakland, Calif., assignor to Hammer-Bray Company, Oakland, Calif., a Corporation of California. Filed July 26, 1926. Serial No. 125,071. 7 Claims. (Cl. 126—36.)

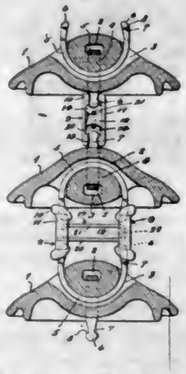


1. In a stove provided with a cooking top, a fire box and a top gas burner chamber underlying said top, gas burners in said chamber, a kindler burner arranged to deliver

gaseous fuel within said fire box, a gas supply manifold at the front of said stove, and supply cocks for all said burners operatively disposed between said manifold and burners and having corresponding parts thereof in rectilinear alignment.

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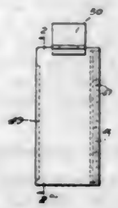
1,690,291. INSULATOR. MINOR F. H. GOUVERNEUR, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Nov. 11, 1924. Serial No. 749,145. 4 Claims. (Cl. 173—366.)



1. Means for connecting insulators having curved insulating passages comprising a pair of similar curved yoke members adapted for insertion through the interlinking passages of successive insulators and terminating in heads adjacent constricted neck portions, and connecting members apertured for the reception of said neck portions and having retaining surfaces co-acting with said heads, said connecting members including intermediate transverse portions spaced from the ends thereof to provide apertures for securing means.

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1,690,292. CAMERA. PATRICK P. GROSSO, Chicago, Ill. Filed June 11, 1926. Serial No. 115,266. 8 Claims. (Cl. 95—34.)

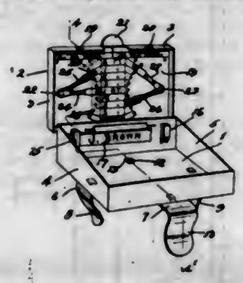


1. In a device of the type described, a casing having an opening in one end thereof and a slot in the upper edge thereof, an adjustable lens disposed in said casing in alignment with said opening and provided with an indicating arm which extends through said slot, and a plate carried by said arm and slidably disposed adjacent the slot.

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1,690,293. HOUSEHOLD COMMODITY INDICATOR. GEORGE B. HALL, Winnipeg, Manitoba, Canada. Filed May 23, 1927. Serial No. 193,000. 2 Claims. (Cl. 116—133.)

2. A household commodity indicator for insertion within the lid of a box embodying a commodity indicating card mounted within the lid and having the names of selected commodities printed on the top thereof, and information relative to specially required commodities appearing thereon underneath the former names, a central vertical column having indiciæ indicating the quantity of selected commodities required and a pair of concentrically mounted pointers pivotally attached to each end of the card, the pointers of a pair being differently coloured, said pointers



being adapted to indicate when set with regard to the central column the quantity of the selected commodity required.

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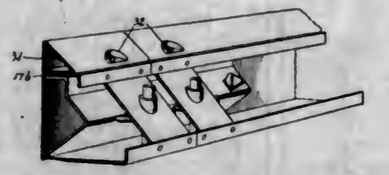
1,690,294. COLLAPSIBLE CASE. OSCAR B. HANSON, Dickinson, N. Dak. Filed Mar. 10, 1927. Serial No. 174,362. 5 Claims. (Cl. 217—12.)



4. A knock down box of the character described, comprising top, bottom, side and end wall members, shiftable plate members carried by and having limited movement over a face of certain of said walls, and an engaging member carried by each plate for engagement over an adjacent wall to maintain the same in position.

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1,690,295. ROAD FORM. JOHN N. HELTZEL, Warren, Ohio. Filed Sept. 24, 1927. Serial No. 221,809. 20 Claims. (Cl. 25—118.)



6. The combination of a concrete form rail, and means therein adapted to receive a transverse compression force and constructed to expand vertically in the rail when under transverse compression.

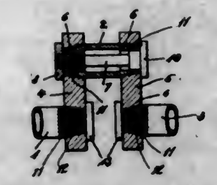
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1,690,296. CRANK SHAFT. ALBERT HIRTH, Cannstatt-Stuttgart, Germany. Original application filed Dec. 22, 1920, Serial No. 432,445, and in Germany Jan. 16, 1920. Divided and this application filed Oct. 11, 1924. Serial No. 743,090. 1 Claim. (Cl. 74—38.)

A built up crank shaft structure comprising two crank arms provided with pairs of conical seats, the seats in each crank arm facing in opposite directions and having V-shaped grooves and projections, two journals provided with conical ends fitting respectively in the seats of one pair and extending in opposite directions outwardly therefrom to constitute the axis of the crank shaft structure, said conical ends having V shaped grooves and projections



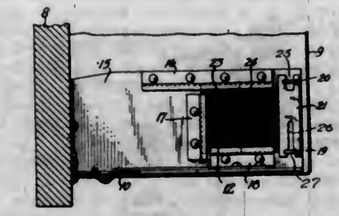
in intimate contact with the entire surface of the grooves and projections in the seats, and said conical ends having terminal threaded pins, nuts screwed on said pins and bearing against the sides of the crank arms and acting to maintain the intimate contact of the grooves and projections, a hollow crank pin extending between said crank arms and formed with conical ends fitting in the conical seats of the other pair and having V-shaped grooves and projections in intimate contact with the entire surface of the grooves and projections in the associated seats, a bolt



extending through said crank pin and having on one end a head bearing against one crank arm and having on its other end a nut bearing against the other crank arm and acting to maintain the intimate contact of the grooves and projections; whereby in a crank shaft structure involving a plurality of pairs of crank arms and a plurality of crank pins, the parts of the structure may be assembled in a great number of different relative angular positions and be filmly held with the journals in the same axis and in parallel relation to the crank pins.

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1,690,297. CABLE SUPPORT. JOSEPH F. D. HOGE, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 28, 1923. Serial No. 665,498. 1 Claim. (Cl. 247—25.)



A cable support comprising a plate having a slot in one end, members secured near the edges of the slot to form grooves, a pair of clamping members fitted in said grooves and arranged to form an opening of a diameter substantially the same as the cable to be supported, lugs on the outer end of said plate, and a clip in the plane of said clamping members, when the clip and clamping members are in operative position, said clip having a slot in each end engaging said lugs to hold the outer clamping member firmly against the cable.

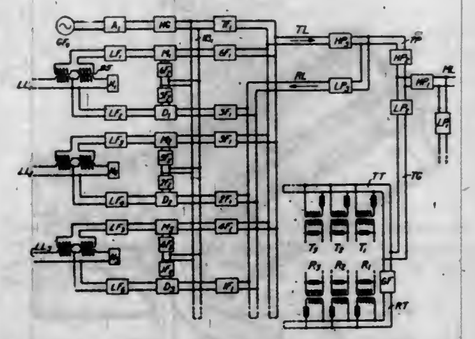
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1,690,298. WINDOW VALANCE. FRANK E. HOOD, JANET E. HOOD, and ALEXANDER G. MORRISON, San Francisco, Calif. Filed Sept. 24, 1924. Serial No. 739,608. 4 Claims. (Cl. 156—13.)



1. A suspended valance having a shaped bottom edge and having shaped sections of the said edge weighted uniformly.

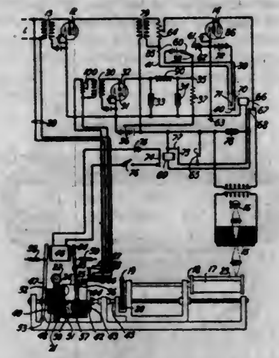
1,690,299. GENERATION AND CONTROL OF ELECTRIC WAVES. JOSEPH W. HORTON, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 21, 1922. Serial No. 545,562. 28 Claims. (Cl. 179—15.)



1. The method of generating a wave of required frequency from a single sinusoidal wave of a given different frequency comprising maintaining a sustained cycle of wave-modifying operations including modulation of the wave of given frequency by a wave, driving the last mentioned wave as a product of such modulation, and deriving the wave of required frequency solely as a product of such modulation.

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1,690,300. TRANSMISSION OF PICTURES BY ELECTRICITY. JOSEPH W. HORTON, Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 3, 1925. Serial No. 20,321. 13 Claims. (Cl. 178—7.)



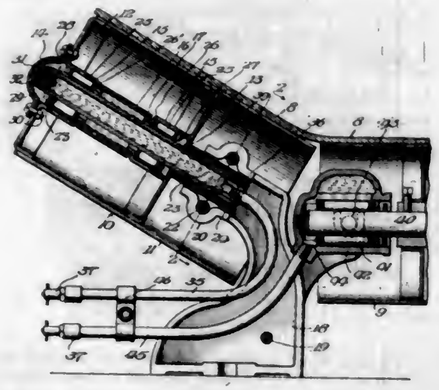
1. In a signaling system comprising a gain control circuit, the method of obtaining a desired current level at a receiving station which comprises automatically adjusting a potential of the gain control circuit from the transmitting station during regularly recurring periods.

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1,690,301. BELT CONVEYER. HERMON E. HOWARD, Chicago, Ill., assignor to Weller Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 24, 1925. Serial No. 39,192. 5 Claims. (Cl. 308—113.)

1. In a support for a conveyer belt, the combination of a bracket, an inclined hollow shaft having its inner end fixedly secured in the bracket, a troughing roll comprising a rim, a head at the outer end of the rim having

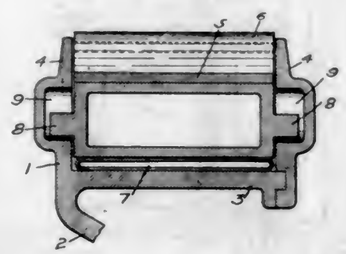
an opening therein through which the shaft may pass, a head adjacent the inner end of the rim and a hub between the heads, a cap removably secured to the outer head and forming a closure for said opening, the outer end of the shaft and the cap being provided with abutting



surfaces to limit the inward movement of the roll, means adjacent the outer end of the shaft for holding the roll against outward movement, and means for delivering lubricant to the inner end of the shaft and from the shaft to the bearing surfaces between the hub and the shaft.

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1,690,302. BRAKE-SHOE CONSTRUCTION. HENRY D. HUKILL, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Mar. 2, 1927. Serial No. 171,923. 5 Claims. (Cl. 188—206.)

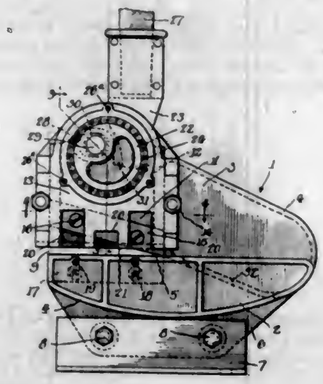


1. In a brake for automotive vehicles, the combination with a support therefor, of brake shoes mounted on said support and movable radially relative thereto, and projections on both sides of each end of each of said shoes adapted to interlock with said support to prevent rotary movement of said shoes.

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1,690,303. METAL SHEARS. JOHN JENSEN, Rockford, Ill., assignor to Whitney Metal Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Sept. 17, 1927. Serial No. 220,079. 2 Claims. (Cl. 164—57.)

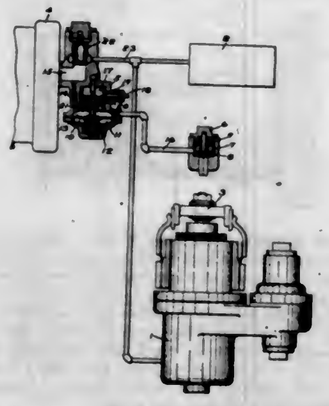
1. In metal shears, the combination of a stationary blade, a movable blade, and a plate positioned in substantially parallel spaced relation to said stationary blade to limit the dimension of material to be interposed between said blades for cutting, said plate having a recess adapted to admit one portion of a bent piece of material in order



to position another portion of said piece of material between said blades for cutting closely proximate to said portion admitted to said recess.

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1,690,304. COMPRESSOR UNLOADER. FREMONT P. LIVINGSTON, Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 8, 1927. Serial No. 182,002. 4 Claims. (Cl. 230—4.)



1. In a pressure control apparatus, the combination with a fluid compressor, of means for venting fluid from the fluid discharge side of the compressor and operated upon a predetermined increase in the pressure of fluid discharged for cutting off the venting of fluid from said discharge side.

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1,690,305. MOLDED ARTICLE AND METHOD OF PREPARING THE SAME. HARVEY ELMER MANNING, Little Rock, Ark. Filed Apr. 12, 1927. Serial No. 183,244. 3 Claims. (Cl. 18—47.5.)

1. In the preparation of molded articles the herein described process which comprises mixing kaolin clay, magnesium oxide and hot dilute nitro-hydrochloric acid, in such proportions as to form a thin pasty mass which will set slowly, upon standing in a vacuum forming a product

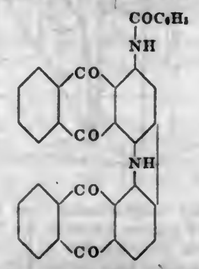


of low gravity, and allowing the mass to set at substantially below atmospheric pressure, thereafter removing soluble components by a washing operation.

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1,690,306. ANTHRAQUINONE VAT DYESTUFF. WALTER MIEG, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Jan. 20, 1926, Serial No. 82,588, and in Germany Jan. 21, 1925. Divided and this application filed May 24, 1927. Serial No. 193,948. 1 Claim. (Cl. 260—46.)

As a new product the vat dyestuff which is obtainable by treating 4-benzoylamino-1-1'-dianthraquinonylamine with anhydrous aluminum chloride in presence of pyridine, which is chemically most likely a carbazol derivative, corresponding probably to the formula:

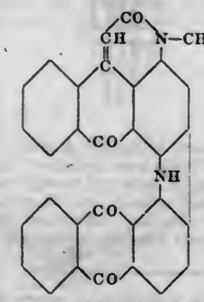


which is soluble in concentrated sulfuric acid with a brown color and dyes vegetable fibres from cold or hot vats very fast brown shades.

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1,690,307. ANTHRAQUINONE VAT DYESTUFF. WALTER MIEG, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Jan. 20, 1926, Serial No. 82,588, and in Germany Jan. 21, 1925. Divided and this application filed May 24, 1927. Serial No. 193,949. 1 Claim. (Cl. 260—46.)

As a new product the vat dyestuff obtainable by treating the dianthraquinonylamine derivative obtained by condensing 4-bromo-1-9-anthraquinonemethylpyridone with 1-aminoanthraquinone, with anhydrous aluminum chloride in presence of pyridine, which is chemically most likely a carbazol derivative, corresponding probably to the formula:

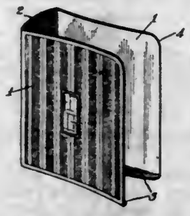


which crystallizes in orange needles, soluble in concentrated sulfuric acid with a deep red color, and producing brownish-orange dyeings on cotton from both cold and hot vats.

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1,690,308. CASE FOR CIGARETTE PACKAGES. VICTOR NIVOIS, New York, N. Y. Filed June 2, 1926. Serial No. 113,157. 2 Claims. (Cl. 206—41.)

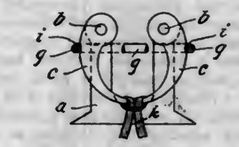
1. A holder of the character specified, of resilient sheet material, including side plates arched inwardly from side to side and connected at one edge by a resilient wall acting normally to press said sides towards each other, thereby to firmly grip a package of cigarettes, or the like, when inserted between them, said plates having inturned



flanges at one end to limit movement of the package in that direction while leaving the major portion of the said end exposed to facilitate removal of cigarettes through the other end of the package.

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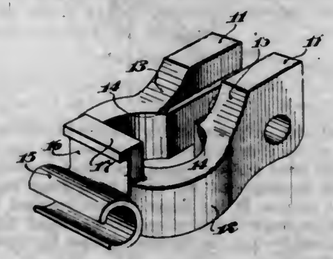
1,690,309. LACING FASTENING. JAKOB PFEIFFER-BRAUN, Laupen, near Bern, Switzerland. Filed Aug. 25, 1927, Serial No. 215,497, and in Germany June 30, 1927. 1 Claim. (Cl. 24—117.)



A lacing fastening comprising a support, two parallel distanced shafts mounted in said support, corniform lever arms secured to the ends of said shafts so that the arms can be closed in pairs point to point, a spring tending to open the arms, and a shackle adapted to embrace a pair of arms and to snap into notches in the same for retaining the arms in closed position, the shackle being pivoted to the support so as to allow of being turned into and out of operative position.

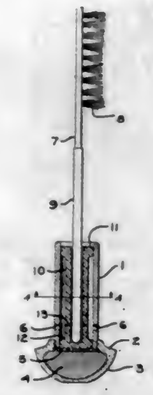
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1,690,310. BATTERY TERMINAL. HENRY E. PIEH, Williston, N. Dak., assignor of one-half to Harold Sylvester Paige, Williston, N. Dak. Filed Apr. 13, 1927. Serial No. 183,827. 8 Claims. (Cl. 173—259.)



1. A split ring battery terminal having cooperating lugs on the upper surface of the outer end portions thereof, said lugs projecting upward an appreciable distance from said upper surface, the inner surfaces of said lugs being offset from the inner surfaces of the ends of the ring so as to provide a space between the lugs which in all positions of the terminal, is capable of receiving a spreading tool.

1,690,311. TOOTHBRUSH HOLDER. FREDERICK REICH, Elizabeth, N. J. Filed Feb. 9, 1925. Serial No. 7,741. 2 Claims. (Cl. 248—63.)



1. A tooth brush holder having a base portion weighted to stand on end and having an open-ended cylindrical bracing and supporting portion screw-threaded thereon, a waterproof gasket therebetween and compressed by said screw threads, and a removable resilient bushing closed at one end, adapted to encircle a tooth brush handle, and at each end in frictional engagement with the interior wall of said cylindrical portion, said cylindrical portion and bushing being, substantially, at least as long as the bristle portion of a tooth brush providing an extended tooth brush gripping portion.

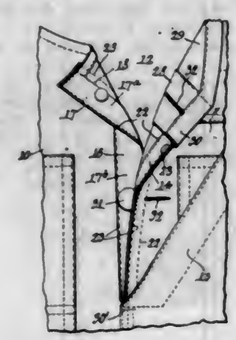
1,690,312. GOLF-CLUB GRIP. STERLING D. ROSAN, Boston, Mass. Filed Feb. 18, 1928. Serial No. 255,258. 5 Claims. (Cl. 273—81.)



1. A golf club grip comprising means projecting from the shaft of the club to provide a surface for the thumb of the right hand and an oppositely directed surface for holding the forefinger of the right hand away from the shaft, that portion of the finger surface engaged by the end of the forefinger being spaced farther away from the axis of the shaft than the surface engaged by the middle of the forefinger.

1,690,313. OVERALLS. LOUIS A. ROSENTHAL, Louisville, Ky. Filed May 3, 1926. Serial No. 106,406. 1 Claim. (Cl. 2—235.)

The combination with the front and rear body portions of a pair of overalls or work garment providing a side vent therebetween, of an integral strip embodying a straight front section and a tapered rear section, the rear section having a greater width than the front section and increasing in width away frome the same, there being a notch and shoulder at the union of the front and rear sections, the rear section being folded longitudinally about the edge of the rear body portion providing inner and outer faces, the inner face being folded longitudinally adjacent to its longitudinal edge, providing an inner fold which is stitched to the rear body portion beneath the inner face, the outer



face being folded longitudinally upon itself and stitched to the rear body portion adjacent the fold, the front section being folded longitudinally at points adjacent to its longitudinal edges and applied to the rear face of the front body portion and stitched thereto through the folded edges of the front section, the folded edges of the front section constituting continuations of the folded edges of that portion of the rear section which is arranged upon the outer face of the rear body portion.

1,690,314. REFRIGERATION. CHARLES C. SPREEN, Detroit, Mich. Filed Feb. 21, 1927. Serial No. 169,758. 2 Claims. (Cl. 62—95.)



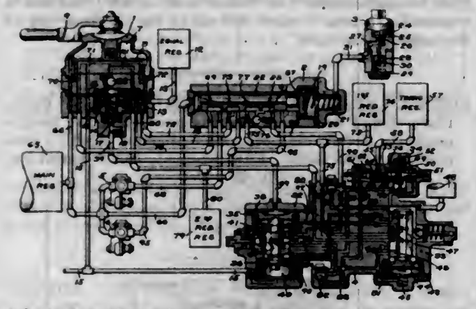
1. In a mechanical refrigerating system, a cooling unit including a liquid refrigerant container, a plurality of fins formed of sheet metal, said fins having apertures through which said container extends, and flanges on said fins removed from said container, said flanges surrounding apertures in said fins and forming therewith a tray support.

1,690,315. SPLIT REDUCTION DEVICE. THOMAS H. THOMAS, Edgewood, and CLAUDE A. NELSON, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 11, 1927. Serial No. 204,876. 33 Claims. (Cl. 303—18.)

14. In a fluid pressure brake, the combination with a brake pipe, of means for effecting a first reduction in brake pipe pressure, a timing reservoir adapted to be charged with fluid under pressure at a fast rate for a period of time governed by the degree of brake pipe leakage, and at a slower rate for a period of time governed by the pressure

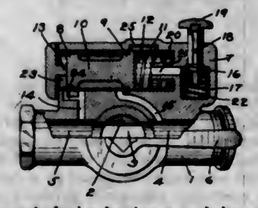


of the fluid discharged from said brake pipe, and means for discharging the fluid under pressure from said reser-



voir at a predetermined rate to effect a second reduction in brake pipe pressure at a fixed time regardless of said leakage.

1,690,316. ANGLE-COCK DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 27, 1927. Serial No. 229,091. 6 Claims. (Cl. 303—86.)



6. An angle cock device having a cock key and provided with a by-pass for establishing communication from one side of the key to the other, a double headed piston device for controlling communication through said by-pass and subject on one side to fluid pressure urging said piston device to its closed position, a spring urging said piston device to its closed position, and a manually operable valve for venting fluid from the spring side of said piston device.

1,690,317. LOOSE-LEAF BINDER. CHESTER G. VAN BUREN, Chicago, Ill. Filed Nov. 4, 1926. Serial No. 146,111. 4 Claims. (Cl. 129—35.)



1. A binder comprising two cover members bound together in book form, each cover member being provided at its bound edge with a strip projecting therefrom toward the other cover member, the ends of one of said strips being bent back to form guide guards; a spring latch member on one end of said last mentioned strip cooperating with the corresponding guard, there being means on the other strip to detachably engage said latch; a detachable engagement between the other ends of said strips; and a leaf spring on one cover member and arranged to rest upon and bind leaves between said cover members, substantially as described.

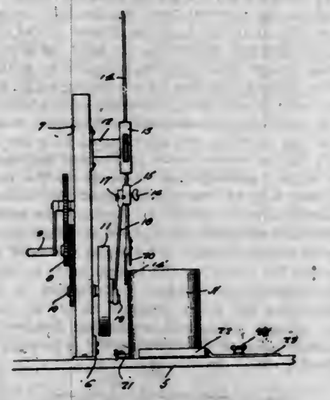
1,690,318. PROCESS OF DYEING LEATHER WITH ACID AZO DYESTUFFS. BARTHOLOMÄUS VOSSEN, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 23, 1926, Serial No. 83,389, and in Germany Feb. 3, 1925. 4 Claims. (Cl. 8—5.)

1. The process of dyeing leather in full brown shades of even depth with acid azo dyestuffs, which comprises using for the dyeing process dyestuffs formed according to the scheme:

I II III IV
amine → non-sulfonated resorcinol ← aminonaphthol sulfonic acid ← amine

where I and IV each stand for a diazotizable aromatic amine, aminohydroxy- or amino-azo compound or a substitution product thereof, II stands for a non-sulfonated resorcinol or a substitution product thereof, and III stands for an aminonaphthol mono- or disulfonic acid.

1,690,319. CAN OPENER. IRVING ANDERSON, Bird City, Kans. Filed Aug. 26, 1927. Serial No. 215,709. 4 Claims. (Cl. 30—3.)



1. In a can opening device of the character described, a rigidly mounted vertically extending post, a train of high speed gearing associated with the post, means whereby the gearing may be rotated, a fly wheel associated with one gear of the train, a vertically extending guide sleeve associated with the post adjacent its upper end and at the same side of the post as said fly wheel, a bar mounted for vertical reciprocatory movement through said sleeve, a cutting knife arranged upon the lower end of the bar and adapted to be engaged through the lid of a can arranged beneath said bar and a driving connection between the fly wheel and said reciprocatory bar.

1,690,320. PILE WIRE. JAMES BAGLEY, Bedford, Mass., assignor to Alice L. Pfeiffer, Bedford, Mass. Filed Mar. 31, 1927. Serial No. 179,892. 8 Claims. (Cl. 139—44.)

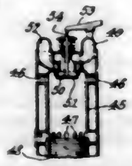


1. A pile wire including a body portion, a flat-sided blade, a blade-holder fixed to the body portion and comprising opposed jaws connected by a neck to form a channel and yieldingly grasping the sides of the blade, the channel containing a longitudinal back abutment supporting the blade back and operatively locating the cutting edge above the holder, the jaws and blade being provided with

orifices arranged to register with each other when the blade back is in its operative position on the back abutment, and a plug inserted in said orifices, and secured therein, so that its ends are flush with the outer sides of the jaws.

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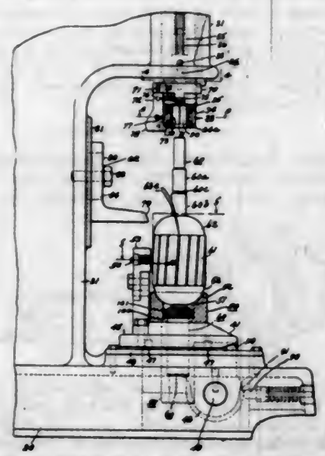
1,690,321. GAS ENGINE. ROY STURM BAKER, Pomona, Calif. Filed June 27, 1925. Serial No. 40,019. 2 Claims. (Cl. 123—65.)



2. In an internal combustion engine, a cylinder having a head, the cylinder being provided intermediate its ends with an exhaust port, a piston slidable in the cylinder and controlling the exhaust port, an air inlet member on the head of the cylinder, a spring seated sleeve valve in the head and through which the air inlet member discharges, a spring seated second valve cooperating with the sleeve valve to control the flow of air through the sleeve valve, both of said valves being arranged concentrically with respect to each other in the head, a fuel inlet member on the head of the cylinder and discharging into the cylinder externally of the sleeve valve and under the control of the sleeve valve, interengaging elements on the valves whereby motion may be transmitted from the second valve to the sleeve valve, to open the sleeve valve and admit fuel after the second valve has opened to admit air, said interengaging elements being external to the head and accessible, means for operating the second valve to open it, mechanism independent of piston compression in the cylinder for delivering air under pressure to the air inlet member on the cylinder head, and mechanism independent of piston compression in the cylinder for delivering fuel to the fuel inlet member on the head.

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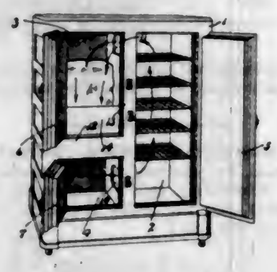
1,690,322. ARMATURE-ASSEMBLY APPARATUS. RUSSELL W. BAKER, Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Apr. 12, 1927. Serial No. 183,079. 12 Claims. (Cl. 29—84.)



1. Apparatus for assembling an armature comprising a support for an assembly of armature shaft and an armature core carrying windings; a support for a commutator in alignment with the armature shaft; means for producing movement of one support relatively to the other in order to force the commutator over the armature shaft; and means responsive to said relative movement for marking one of the commutator bars.

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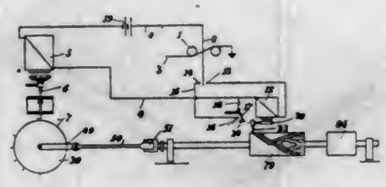
1,690,323. COLD-AIR DEFLECTOR. JOHN W. BARNHART, Grand Rapids, Mich., assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich., a Corporation of Michigan. Filed Sept. 21, 1925. Serial No. 57,539. 5 Claims. (Cl. 62—51.)



1. In a refrigerator having an upper ice chamber and a lower provision compartment directly below the ice chamber with a partition having a flue opening through the same disposed horizontally between the ice chamber and said provision compartment, said ice chamber having an opening at the front adapted to be closed by a door, of an unattached plate vertically positioned in the front lower portion of the ice chamber and supported at its lower edge against the upper side of said partition, said plate being of greater width than the door opening and extending upwardly a portion of the height of the door opening and being freely removable from and replaceable in the ice chamber through the door opening.

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1,690,324. SELECTING MECHANISM FOR TYPE-PRINTING TELEGRAPHY AND OTHER PURPOSES. THOMAS JAMES BERRYMAN, Armagh, Northern Ireland. Filed Feb. 23, 1927, Serial No. 170,334, and in Great Britain Feb. 26, 1926. 19 Claims. (Cl. 178—34.)



1. Selecting mechanism for type printing telegraphy and other purposes, comprising, a translating device adapted to partake of two movements, an impelling device for producing one movement, means on said translating device for determining the other movement, control means co-operating with said means on the translating device adapted quantitatively to vary the said other movement, and electro-magnetic means actuating said impelling device and said control means and arranged to act differently for different kinds of impulses received.



1,690,325. PROCESS OF PRODUCING ALKYLATED ALIPHATIC NITRILES. MAX BOCKMÜHL and GUSTAV EHRHART, Hoechst-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y., a Corporation of New York. Filed June 17, 1926, Serial No. 116,727, and in Germany June 22, 1925. 8 Claims. (Cl. 260—112.)

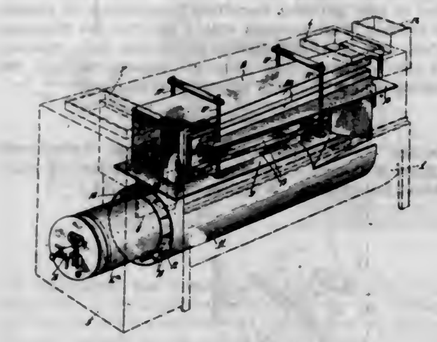
1. The process of producing tertiary nitriles which consists in treating a secondary nitrile of the general formula:

$$\begin{matrix} R \\ R \end{matrix}\!\!>\!CH-CN$$

wherein R stands for an alkyl residue, with an alkali metal and then causing an alkylating agent to act upon the alkali metal compound of the secondary nitrile thus obtained.

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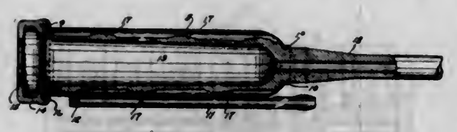
1,690,326. AIR HEATER. JOHN E. BOLLING, Chicago, and ERNEST SZEKELY, Evanston, Ill., assignors of three-fourths to Drying Systems, Inc., Chicago, Ill., a Corporation of Illinois, and one-fourth to Ernest Szekely. Filed July 26, 1926. Serial No. 124,957. 8 Claims. (Cl. 263—20.)



1. In an air heater, a combustion tube for burning fuel, said tube comprising a plurality of longitudinal segmental strips having marginal flanges projecting outwardly, said strips joined at the edges.

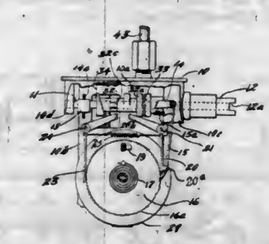
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1,690,327. TEAT CUP. LAURITS DINESEN, Minneapolis, Minn. Filed Nov. 27, 1925. Serial No. 71,631. 4 Claims. (Cl. 31—85.)



1. A teat cup for milking apparatus comprising a rigid tubular outer shell and a flexible resilient teat-receiving inner tube, said shell and tube being connected with air-tight joints at the ends of said shell, and the wall of said tube being spirally enlarged between its ends, whereby said shell limits the expansion of the spirally enlarged surface of said tube and the air-tight joints at the ends thereof serve to hold said spiral surface against endwise contraction under radial expansion.

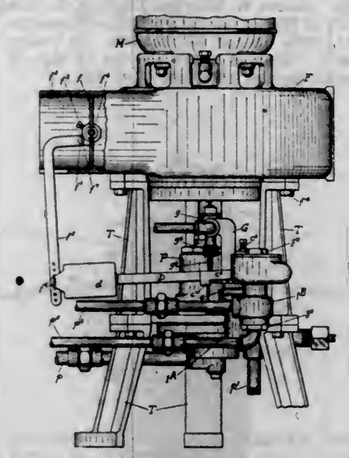
1,690,328. FUEL-CONSUMPTION INDICATOR FOR AUTOMOBILES. CARL J. GARDEEN, St. Paul, Minn. Filed Jan. 31, 1925. Serial No. 6,122. 7 Claims. (Cl. 235—1.)



1. An indicating device for showing the relation between the distance traveled by a vehicle and the fuel used for driving said vehicle having in combination, means including pawl and ratchet mechanism moved an amount proportional to the distance the vehicle travels, resilient means for retracting said means, indicating means co-operating therewith, and means including a clutch and cam-operated tripping means operated by a fuel measuring device for controlling the operation of said first mentioned means.

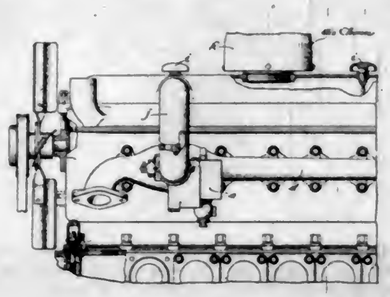
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1,690,329. MEANS FOR CONTROLLING THE FLOW OF ALL FLUIDS IN AN OIL-BURNER APPARATUS. WILLIAM M. BAXTER, Fort Wayne, Ind., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind., a Corporation of Maryland. Filed Aug. 16, 1926. Serial No. 129,439. 3 Claims. (Cl. 158—28.)



1. In combination with an oil burning system comprising a burner, a fuel oil reservoir, a pump for forcing oil under pressure from said reservoir to said burner, fuel oil connections including a valve to contol the flow of oil from said pump to said burner, gas connections including a valve to control the flush flow of gas to said burner, a fan and connections to supply air to said burner, and a damper in said connections to control the flow of air therethrough; inter-related means operable by the pressure of the fuel oil flowing through the system for synchronously actuating the said fuel oil valve, said gas valve and said damper.

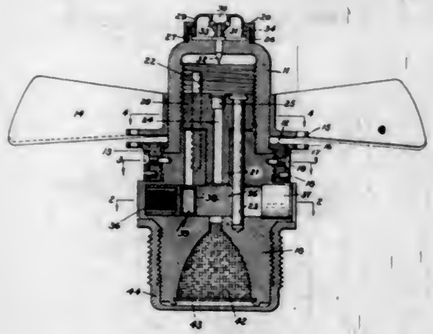
1,690,330. CHARGING AND DISTRIBUTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. JAMES SCRIPPS BOOTH, Detroit, Mich. Original application filed Nov. 6, 1924. Serial No. 748,119. Divided and this application filed Nov. 30, 1925. Serial No. 72,105. 2 Claims. (Cl. 123—122.)



1. In an internal combustion engine, the combination of a plurality of cylinders, a spark plug for each cylinder, and electrical wiring connections for the spark plugs, a carburetor for furnishing the fuel supply to said cylinders, and a cover plate in the form of a cap bridging over both the entire plugs and the wiring connections, means for removably securing the cover plate onto the top of the engine, a conduit leading from the carburetor to the interior of the cover plate, and an air cleaner supported on the cover plate and arranged to filter the air drawn over the plugs and then into the carburetor.

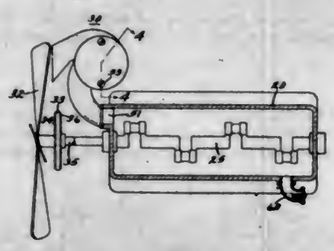
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1,690,331. SUPERSENSITIVE FUSE FOR DROP BOMBS. HAROLD M. BRATTON, Dover, N. J., assignor to Secretary of War of the United States of America. Filed Aug. 11, 1924. Serial No. 731,469. 14 Claims. (Cl. 102—39.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



1. A nose fuse for bombs including a body, a cap rotatably secured thereto, a propeller for rotating the cap, a carrier constrained to be translated to the head of the cap through rotation of said cap, a primer disposed in the carrier, an air balanceable striker head including a firing pin mounted on the cap, a cylindrical bolt mounted transversely in the body, a detonator in said bolt, means secured to the carrier for releasably holding the bolt in unarmed position, and means for guiding the bolt in lateral movement and for locking it in armed position.

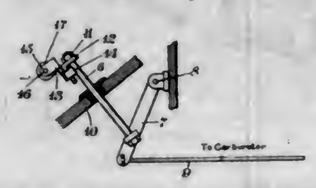
1,690,332. CRANK-CASE VENTILATION SYSTEM FOR INTERNAL-COMBUSTION ENGINES. FRANK O. CLEMENTS, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 11, 1923. Serial No. 638,364. 4 Claims. (Cl. 123—171.)



1. The combination of an internal combustion engine having a crankcase provided with an air inlet and an air outlet, means for introducing air into said crankcase air inlet under pressure comprising a conduit facing an air stream, means in said conduit for effecting a sharp change in direction in the air current to produce a separation of dust particles therefrom by operation of inertia, said conduit being provided with a port for the discharge of dust thus separated thereby preventing their entrance into the crankcase, the clean air passing through the crankcase and discharging through said air outlet.

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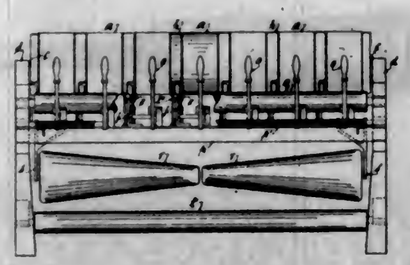
1,690,333. ACCELERATOR FOR MOTOR VEHICLES. HENRY B. COOPER, Columbus, Ohio. Filed Jan. 17, 1927. Serial No. 161,558. 5 Claims. (Cl. 74—81.)




1. An accelerator for motor vehicles including an actuator rod and a frame, a rotatable pedal member journaled in said frame, and means pivotally connecting said frame with the actuator rod.

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1,690,334. APPARATUS FOR STRAIGHTENING WEFT IN FABRICS. GEORGE DURRANT, Gorton, England. Filed Mar. 16, 1928, Serial No. 262,266, and in Great Britain Apr. 19, 1927. 5 Claims. (Cl. 26—51.)



1. Apparatus for straightening weft in fabrics, characterized by a relatively long cylinder made up of a plurality of short cylinders arranged end to end and all of



which are normally free to be driven or rotated by the fabric, by braking means for varying the peripheral speed of any of the short cylinders according to the required correction of the weft, and by guide cones axially and pivotally mounted in the path of the fabric on the inlet side of the machine, and springs for holding the cones yieldingly against the fabric to tension same, as set forth.

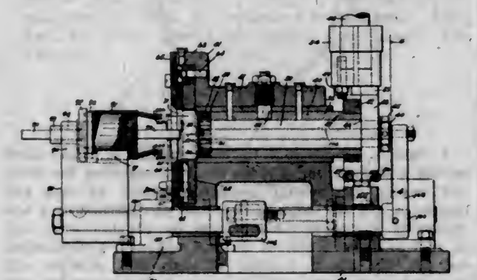
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1,690,335. SULPHUR PRODUCT AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed Apr. 7, 1925. Serial No. 21,425. 7 Claims. (Cl. 106—22.)

1. A product comprising sulphur and sulphurized xylenol resin.

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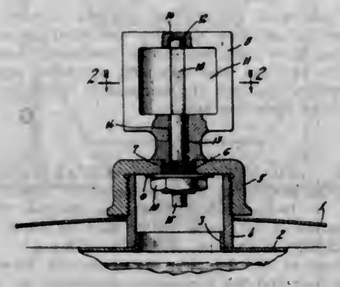
1,690,336. MACHINE FOR BENDING ARMATURE CONDUCTORS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 22, 1925. Serial No. 76,974. 40 Claims. (Cl. 153—6.)



1. Apparatus for bending armature conductor leads, comprising in combination, a work carrier for receiving an assembly of an armature core and conductors, the ends of which extend beyond one end of the core to provide leads, bending mechanism for receiving the leads and displacing them angularly relative to the core, and means for advancing the carrier toward the bending mechanism, and for automatically retracting the work carrier from the bending mechanism after the bending operation, and means for operating the bending mechanism.

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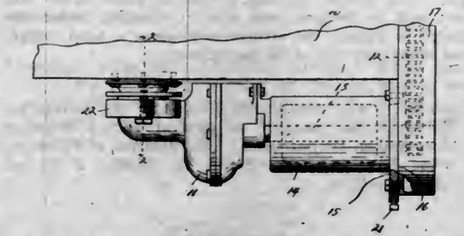
1,690,337. HEAT INDICATOR. JESSE EVERETT ESHBAUGH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Jan. 31, 1927. Serial No. 164,848. 7 Claims. (Cl. 116—114.)



1. A heat indicator for internal combustion engines of motor vehicles, a radiator cap, a metal rod extending through an opening in said cap, an upper plate portion having a concave surface associated with said rod to act as a reflector, an extension on said plate secured in said cap, a heat insulating bushing in a bore in said extension and surrounding said rod, a coating of heat sensitive paint at the upper end of said rod, and a groove in said plate, said coated surface extending parallel to said groove.

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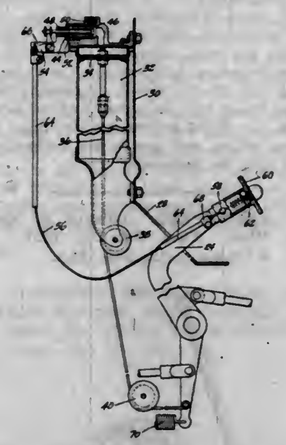
1,690,338. PUMP CONNECTION. EDWIN R. EVANS, Detroit, Mich. Filed Sept. 8, 1925. Serial No. 55,200. 6 Claims. (Cl. 123—175.)



1. The combination with a motor vehicle engine provided with a pump, a generator, and a cylinder water jacket, the said pump and generator being adjustable as a unit with respect to the cylinder water jacket, of a yieldable connection between said pump and jacket, the said connection including a collapsible conduit.

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1,690,339. CONTROLLING DEVICE. FRANCIS D. HARDESTY, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 19, 1924. Serial No. 700,303. 12 Claims. (Cl. 188—152.)



7. A vehicle comprising, in combination, brakes, an engine having an intake manifold, a cylinder and piston operated by suction from the manifold to return the brakes to idle position, and manually operable means for interrupting the action of said cylinder and piston and for applying the brakes.

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1,690,340. MUSICAL INSTRUMENT. REUBIN HOWARD, Parkdale, Oreg. Filed Aug. 1, 1924. Serial No. 729,545. 1 Claim. (Cl. 84—308.)

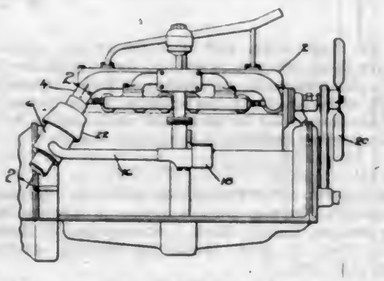
In a stringed musical instrument, a head, strings stretched over the head, a bridge including end portions having inturned extremities resting on the head, a support for the bridge, said support having downwardly extended end portions formed with inturned extremities

resting on the head, one of the downwardly extended end portions of the support being shorter than the opposite end portion thereof, so that the upper part of the support will be inclined, said support engaging under the bridge to tighten the strings and insure a solid bridge, and change the tone of the instrument.



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1,690,341. AIR CLEANER. CHARLES F. KETTERING, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed Nov. 25, 1925. Serial No. 71,367. 2 Claims. (Cl. 123—122.)



1. The combination of an internal combustion engine having the usual carburetor, cooling fan, and exhaust conduit, a portion of said conduit being exposed to the blast of the fan and extending rearwardly therefrom, a casing surrounding said conduit, said casing having the end adjacent the fan closed, an opening in the casing adjacent the closed end, an annular shield extending over the opening, the shield preventing the direct entrance of air into the casing, and means for conducting air from said casing into the carburetor.

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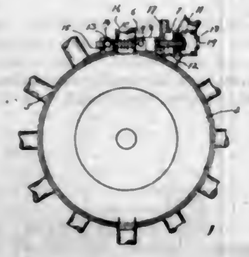
1,690,342. VELOCIPEDE. GUSTAV N. MADSEN, Minneapolis, Minn. Filed Dec. 12, 1927. Serial No. 239,562. 2 Claims. (Cl. 208—34.)



1. A velocipede comprising a frame having a platform, a steering unit at the front of the frame, an axle journaled in the rear of the frame and having ground wheels at its ends, a crank shaft journaled in the frame parallel with the axle and having drive connection therewith, substantially L-shaped treadle levers fulcrumed in the frame rearwardly of the axle and having link connections with the crank shaft, said treadle levers having horizontal portions disposed below the platform and upright portions operating through apertures in the platform.

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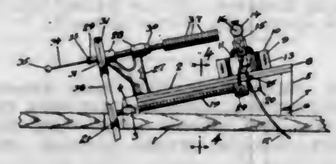
1,690,343. MOTOR-VEHICLE-BRAKE MECHANISM. WILLIAM LINCOLN MARTIN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 3, 1922. Serial No. 572,581. 1 Claim. (Cl. 188—152.)



A vehicle comprising, in combination, a road wheel having a brake drum, a brake band surrounding the drum and having a pivotally mounted member at each end thereof, a cylinder connected to one of said members and extending tangentially away from the pivotal connection of said member, a piston in said cylinder, a connecting rod for the piston passing through said member and mounted in the other member, and a spring surrounding the connecting rod between the members for urging the band to idle position.

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1,690,344. COATING MACHINE. HENRY O. POHRT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Jan. 16, 1926. Serial No. 81,688. 2 Claims. (Cl. 91—45.)

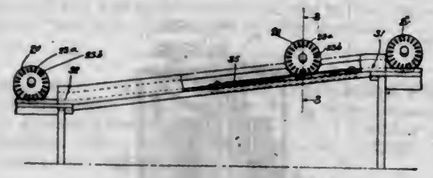


1. An apparatus for coating rotating articles including a moving carriage carrying the spraying gun, the gun having valve operating means, mechanical means for moving the carriage, and manually operating means for simultaneously applying the mechanical means and moving the valve operating means.

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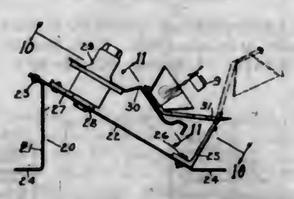
1,690,345. ARMATURE-TESTING APPARATUS. LORA E. POOLE, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1926. Serial No. 112,255. 5 Claims. (Cl. 175—183.)

1. Apparatus for detecting short-circuits between an armature core and bar conductors supported by the core comprising, in combination, an inclined chute, a metal plate provided by the chute for engagement by the armature core which rolls over the plate in rolling down the chute, a conductor supported by the chute for engagement by the ends of the armature conductors which roll into and out of engagement with said conductor while the core rolls over the plate, and electrical signalling apparatus in circuit with the plate and conductor and rendered operative in case one of the armature conductors is grounded upon the core.



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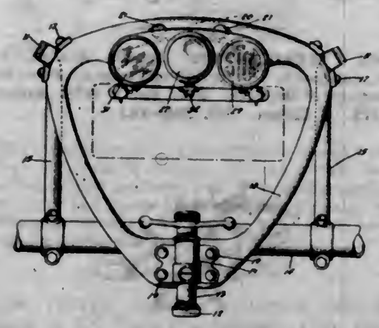
1,690,346. TEMPLATE FOR STRIPING BODIES. CLYDE ROSS, Tarrytown, N. Y., and JOHN MACQUAID, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 30, 1926. Serial No. 84,904. 3 Claims. (Cl. 91—65.)



2. A frame, means secured to said frame for rotatably mounting a piece of work, a bracket on said frame, mechanism carrying a template pivoted to said bracket to swing over the work, means carried by said mechanism to guide said work in its rotation.

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1,690,347. COMBINED TIRE CARRIER AND LAMP DEVICE FOR AUTOMOBILES. ERNEST W. SEAHOLM, Highland Park, and GUY E. PARKER and EWALD K. SCHADT, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 11, 1924. Serial No. 685,690. 8 Claims. (Cl. 177—329.)



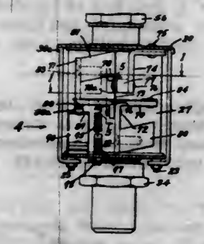
3. In a device of the class described and in combination with a substantially triangular supporting member adapted to lie within a rim and tire to be supported, and having a horizontally arranged upper portion; a hollow lamp supporting bracket carried by said upper portion and depending therefrom, and having a substantially horizontal tubular socket at its lower end; a lamp structure having a substantially horizontal tubular neck adapted to fit within said socket; a plurality of lamps carried by said lamp structure; a plurality of supply conductors extending through said hollow bracket and through said socket and neck and adapted to supply current to said several lamps; and means located within said socket and neck for providing detachable connections between the portions of the supply conductors in said hollow bracket and the portions of said conductors within said lamp structure.





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1,690,348. ELECTROMAGNETIC MOTOR. HUGH WALLACE, Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 25, 1925. Serial No. 32,737. 5 Claims. (Cl. 172—126.)



1. An electro-magnetic motor comprising, in combination, a non-magnetizable cylindrical guide, a magnetizable stationary core extending within the guide, a magnetizable cylindrical armature slidable within the guide, a magnet coil surrounding the guide, means for intermittently connecting the coil with a current source, and a non-magnetic tubular member located between the armature and core to limit movement of the armature toward the core and having a portion telescopically engaged by the armature thereby providing a dashpot comprising a fluid filled chamber formed by the ends of the core and piston and the cylinder and tubular member for retarding the movement of the armature into engagement with the member.

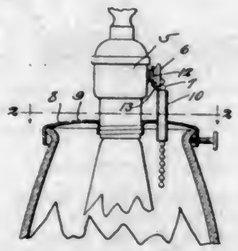
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1,690,349. TOOTHED GEARING FOR BUILDING TOYS. FRANZ WALTHER, Berlin, Germany. Filed May 16, 1927, Serial No. 191,892, and in Germany Oct. 29, 1926. 1 Claim. (Cl. 74—41.)



A toothed gearing for building-toys, comprising two sheet-metal members of practically equal design, each having a rim extending at an angle with respect to the body portion of the member, and having a set of lugs extending forth from the rim, each lug being twice bent angularly and the two members being so connected with each other that their bent lugs abut against one another and form teeth, substantially as set forth.

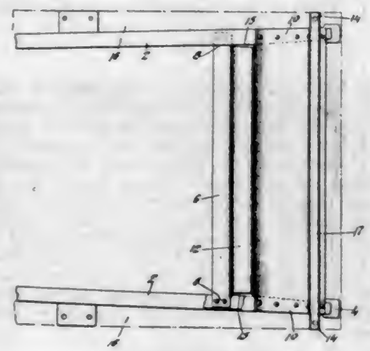
1,690,350. LAMP-SOCKET PULL-CHAIN GUIDE. CHARLES MILLER WEEKS, Chevy Chase, Md. Filed Feb. 10, 1928. Serial No. 253,491. 6 Claims. (Cl. 240—123.)



1. In combination with the pull chain and pull chain guard of a lamp socket, an elongated body portion, a clamping member at one end of the body portion and adapted to clamp around the pull chain guard to removably connect the body portion to the lamp socket.

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1,690,351. FRAME CONSTRUCTION. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 15, 1925. Serial No. 50,435. 5 Claims. (Cl. 280—106.)



1. The combination of a pair of channel iron side frame members having the channels thereof opening inwardly, a plate-like member having opposite extending portions secured to the opposite flanges of said channels, said member having the portions between said flanges cut away to clear one of the flanges and extending at an angle thereto.

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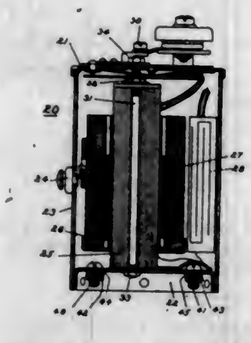
1,690,352. HEAT-RESISTING ALLOY. HARRY M. WILLIAMS, Dayton, Ohio. Filed June 11, 1927. Serial No. 198,302. 2 Claims. (Cl. 75—1.)

1. A heat resistant alloy composed of iron, 2.50 to 3.00% carbon, 3.00 to 3.50% silicon and 1.90 to 2.25% phosphorus.

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1,690,353. IGNITION-COIL MOUNTING. CHARLES E. WILSON and AUGUST TOELLE, Anderson, Ind., assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Jan. 18, 1922. Serial No. 530,150. 6 Claims. (Cl. 175—360.)

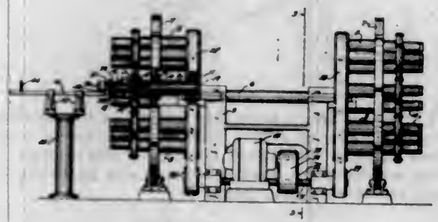
1. In an ignition coil mounting, the combination with a coil having a tubular housing and a housing end cover member including a cylindrical portion; a mounting member having a complementary cylindrical portion, said portions being adapted to fit within each other, said mounting member being one of several different mounting members



which may be assembled interchangeably with the coil housing end cover member; and means for securing said members together.

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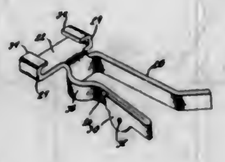
1,690,354. CENTRIFUGAL CASTING MACHINE. JOHN O. WISHART, Milwaukee, Wis. Filed Aug. 12, 1927. Serial No. 212,477. 14 Claims. (Cl. 22—65.)



1. In a centrifugal casting machine, the combination with a vertically disposed rotatable carrier, of a plurality of substantially horizontally disposed molds mounted on said carrier, said carrier having a charging position in which said molds are successively charged and a discharging position, means for rotating said molds during their advance from charging to discharging position, and means movable relative to the carrier for charging each mold.

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1,690,355. SPEEDOMETER. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 1, 1928. Serial No. 251,172. 6 Claims. (Cl. 264—13.)

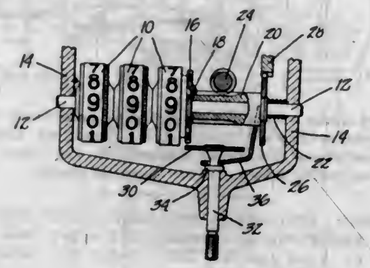


2. Indicating mechanism comprising a frame, a support on said frame having a pair of slots therein, a stamped member provided with a pair of extensions adapted to fit into said slots and to be bent around said support to secure said member to said support, a rotatable indicating member, and a spring to return said indicating member to zero position, said stamped member serving as an abutment for one end of said spring and also as stop to limit the rotation of said indicating member in either direction.

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1,690,356. CLUTCH-SHIFTING MECHANISM FOR ODOMETERS. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Nov. 28, 1924. Serial No. 752,664. 2 Claims. (Cl. 192—99.)



1. In combination, a sliding clutch member, a reciprocating manually operable member movable angularly relative to said clutch member, means operably connecting the manually operable member and the sliding clutch member, including a floating angular plate pivotally engaging the manually operable member at one side of the angle and engaging the sliding member on the opposite side of the angle.

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1,690,357. DISCONNECTING SWITCH FOR TRANSMISSION LINES. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,508. 25 Claims. (Cl. 200—48.)

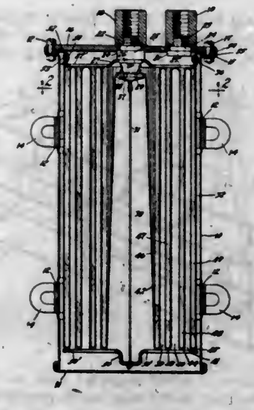


1. The combination with a transmission line of a switch therefor comprising an insulator one end of said line being carried by said insulator, a contact member carried by said insulator and means for moving said insulator bodily in a direction transverse to the direction of said line for opening and closing said switch.

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1,690,358. FILTER. ABRAHAM M. BABITCH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed June 3, 1926. Serial No. 113,491. 4 Claims. (Cl. 210—165.)

1. A filter comprising a container, a cover therefor, inlet and outlet connections carried by said cover, a ring in said container, a tapered filter bag in said container having its smaller end secured to said inlet connection and its larger end to said ring, said bag folded back and forth to form a plurality of annular pockets opening alternately on



the inlet and outlet sides of said filter, tubular spacers positioned in the pockets on the outlet side, and means for holding said bag and spacers in assembled relation.

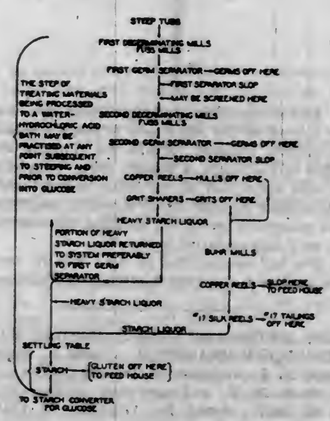
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1,690,359. PROCESS OF MANUFACTURING CORN SUGAR. CHARLES R. BROWN, Kansas City, Mo., and HUBERT E. NELSON, Keokuk, Iowa. Filed Oct. 31, 1925. Serial No. 65,948. 15 Claims. (Cl. 127—39.)

1. In the manufacturing of glucose and corn sugar from corn grits that have been prepared by cracking, degerminating and dehulling of corn kernels, that step which comprises treating said corn grits with a dilute mineral acid of a concentration just sufficient to solubilize basic salts contained in said corn grits and washing said grits prior to further treatment.

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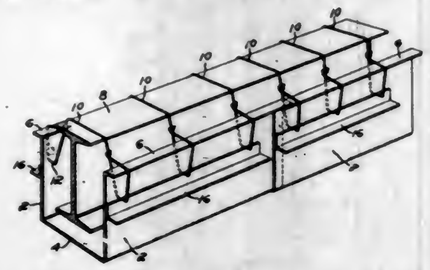
1,690,360. PROCESS OF MANUFACTURING STARCH AND GLUCOSE. CHARLES R. BROWN, Kansas City, Mo., and HUBERT E. NELSON, Keokuk, Iowa. Filed Oct. 31, 1925. Serial No. 65,949. 7 Claims. (Cl. 127—39.)




1. The process for removing substantially insoluble iron salts from starchy materials which comprises treating them with a dilute acid solution of low concentration but

having an avidity comparable to hydrochloric acid whereby the insoluble iron salts are converted into soluble iron salts, and then washing the starchy materials to remove therefrom the solubilized iron salts and the residual acid.

1,690,361. BEAM FORM. LEO I. BRUCE, Holliston, Mass., assignor to Josephine B. Bruce, Gardner, Mass. Filed Oct. 24, 1924. Serial No. 745,615. 14 Claims. (Cl. 25—131.5.)



1. A beam form of sheet material open at the top and comprising a bottom wall; side walls provided with perforations; and supporting means engaging said perforations to suspend said form in operative position.

1,690,362. FOLDING KITE. CLARENCE NEIL DE WITT, Los Angeles, Calif. Filed Apr. 27, 1927. Serial No. 186,869. 6 Claims. (Cl. 244—22.)

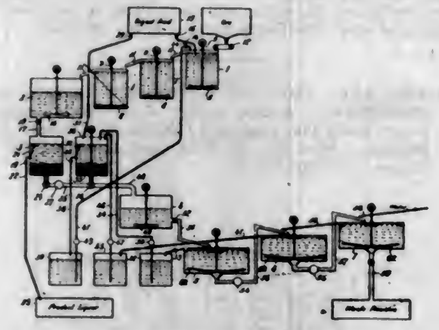


1. A kite comprising a longitudinal rib, an element slidably related to the rib, a pair of stays pivotally carried by the slidable element; means for limiting the pivotal movement of the stays, a flexible cover secured at its one end to said stays and at its other end to said rib with its intermediate portion freely movable lengthwise of the rib; and releasable means for securing the slidable element against movement relative to the rib.

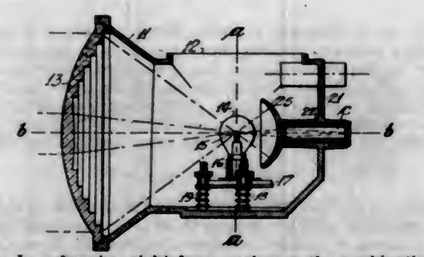
4. A kite tail constructed of light weight, flexible sheet material and as a lengthwise attenuated tubiform.

1,690,363. METHOD OF TREATING SOLID MATERIALS WITH LIQUID REAGENTS. JAMES E. EGLESON, East Orange, N. J., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1927. Serial No. 173,429. 11 Claims. (Cl. 23—268.)

1. The method of treating solid materials with liquid reagents, which comprises digesting the solid material with the liquid reagent, separating the digested solid material from the liquor produced by settling while at a state of rest, withdrawing the supernatant product liquor upon completion of the settling period, and washing the deposited sludge with a flowing stream of wash water traveling counter-current thereto, under conditions providing for continuous settling of sludge from the wash water and continuous withdrawal of the settled sludge.

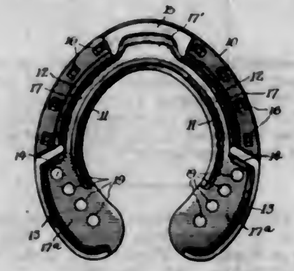


1,690,364. MEANS FOR FOCUSING LIGHT SOURCES IN PROJECTORS. EDWARD A. EVERETT, New York, N. Y. Filed June 18, 1926. Serial No. 116,959. 3 Claims. (Cl. 240—44.)



1. In a focusing sight for a projector, the combination, a housing having a projecting lens, a lamp bulb having a filament and a sighting tube centered on the axial line of said projecting lens, said sighting tube comprising a screen with cross-hairs for locating said axial line and a sighting lens at one end located in fixed relation to the focal point of said projecting lens and a sight at the opposite end of said tube, the position of said filament relative to said focal point being determined by the definition of the filament on said screen when sighted through said tube

1,690,365. CUSHION-TREAD HORSESHOE. ROBERT E. FRUIN, Chicago, Ill. Filed Sept. 3, 1927. Serial No. 217,318. 3 Claims. (Cl. 168—14.)



1. In a cushion-pad horseshoe of the type described, the combination of a metal shoe frame formed with a channel on its under side, said channel having widened



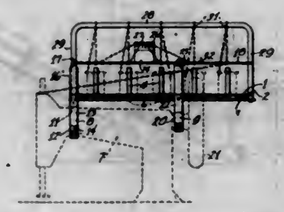
heel and toe portions, a wide heel pad seated at its ends in said widened heel portions of the channel and bridging the rear ends of said frame, said heel pad having a flat wearing surface, and a narrow semi-oval side and toe pad seated in the side and toe portions of said channel, said side and toe pad formed with a transversely convex ground-engaging portion projecting below said channel with its wearing surface continuous and flush with the wearing surface of said heel pad.

1,690,366. PULL SWITCH. DAVID D. GORDON, Chicago, Ill., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed Feb. 15, 1926. Serial No. 88,174. 5 Claims. (Cl. 173—354.)



1. A pull switch comprising, in combination, a supporting member, a pair of swinging members supported thereby, a spring biasing the outer extremities of said swinging members toward each other, one of said swinging members comprising an electrical conductor, stops for limiting the swinging movement of said swinging members, one of said swinging members having an operating member pivotally supported thereby, said operating member having spaced portions adapted to abut against its corresponding swinging member to change the relative positions of said swinging members.

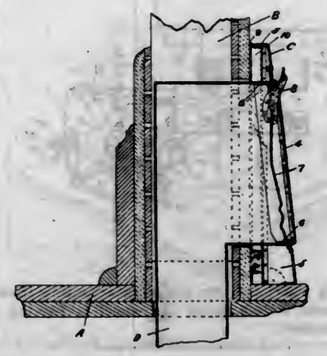
1,690,367. THREAD RACK FOR SEWING MACHINES. FRANCES B. GOTCHETTE, Oakland, Calif. Filed Sept. 7, 1926. Serial No. 133,940. 3 Claims. (Cl. 242—139.)



1. A sewing machine attachment of the character described, comprising a member having a plurality of spool supporting elements thereon, means for supporting the member relative to the arm of a sewing machine, a cross-member supported above the first member and above said spool supporting element, and being formed with thread guiding perforations, a bar supported in front of the cross-member having thread guiding perforations formed therein, and a rest provided on the bar allowing the ends of the threads to be placed thereon in spaced relation.

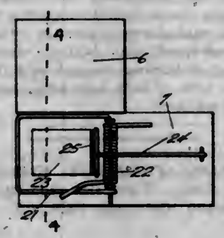
1,690,368. REGISTER CONSTRUCTION FOR HEATING PLANTS. EDWARD A. GRAPP, Minneapolis, Minn. Filed Apr. 1, 1927. Serial No. 180,262. 1 Claim. (Cl. 98—106.)

A warm air register comprising a shell having a grilled face portion, through which the warm air may pass from a stack, and having a marginal flange spaced from the stack, a yieldable element extending about the edge of said flange, and means for securing the element to the inner



face of the flange, said means comprising a strap secured to the inner face of the flange and forming a channel therewith for holding the element.

1,690,369. ANIMAL TRAP. HENRY G. HARTE, Omaha, Nebr. Filed Nov. 3, 1927. Serial No. 230,803. 4 Claims. (Cl. 43—81.)

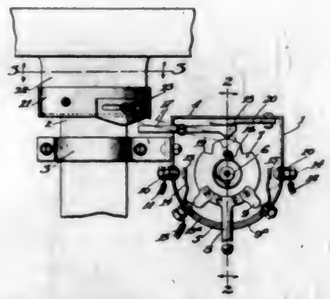


1. In an animal trap, a box having an entrance aperture in its front wall and a platform projecting forwardly from its bottom below said aperture, a foraminous partition providing a compartment communicating with said entrance aperture and providing a second compartment for containing bait, and impaling devices mounted on the platform, one of the walls of said box having an opening communicating with the second compartment, and a closure-member for said opening.

1,690,370. AUTOMOBILE SIGNAL SWITCH. OTTO A. HOELLER, Cincinnati, Ohio. Filed July 16, 1925. Serial No. 44,119. 2 Claims. (Cl. 200—59.)

1. In combination with the steering mechanism of an automobile, a switch mechanism comprising a switch casing secured in proximity to the steering wheel, a switch mounted in said casing and manually oscillated for selective control of the circuits of a plurality of direction indicating signal lights, said switch having grooves therein, a latch member pivotally mounted between said switch and the steering wheel, said latch member having a detent portion at one end for engaging a respective groove in said switch

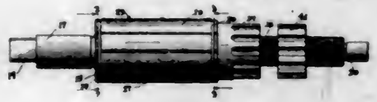
for maintaining the switch in circuit closing position, and the other end of said latch member extending beneath



said steering wheel hub for receiving actuation therefrom to release said switch when the wheel is rotated a determined distance.

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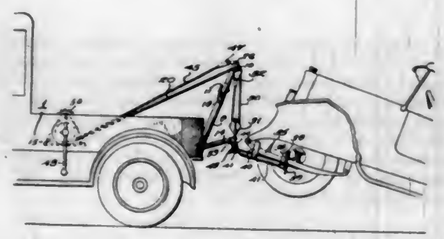
1,690,371. REAMER AND BURNISHING TOOL. WERNER A. KOCH, Los Angeles, Calif. Filed July 19, 1924. Serial No. 726,993. 2 Claims. (Cl. 29—90.)



1. A reaming and burnishing tool comprising a mandrel, an expansible sleeve slidable upon the mandrel, a nut adapted to cause said sleeve to slide in either direction, a cutter slidably mounted upon said mandrel and adapted to be advanced or withdrawn through said sleeve by means of a second nut, both of said nuts being located upon the same end of the mandrel.

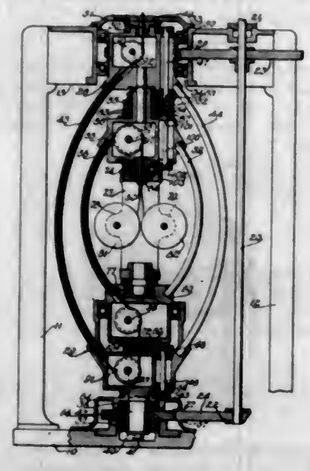
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1,690,372. TOWING APPARATUS. EVERETT GREY LIVESAY, Dayton, Ohio. Filed Oct. 10, 1925. Serial No. 61,763. Renewed Oct. 11, 1926. 7 Claims. (Cl. 214—86.)



1. In a vehicle towing apparatus, a supporting device comprising a pair of longitudinally extending members adapted to be arranged beneath the front springs of the towed vehicle, said members being provided with side plates adapted to engage the sides of the spring to prevent displacement, and being further provided with reduced forward ends, a transverse member having openings adjacent each end for the reception of the reduced ends of said longitudinally extending members, and means for supporting the load substantially centrally of said transverse member.

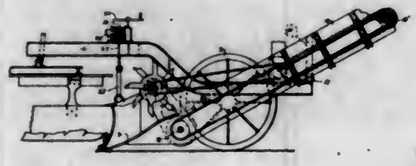
1,690,373. METHOD OF AND APPARATUS FOR TWISTING STRANDS. ALFRED MARCHEV, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1924. Serial No. 749,833. 13 Claims. (Cl. 117—46.)



1. A method of twisting strands which consists in passing said strands successively through a plurality of fliers in such a manner as to form of said strands a plurality of arcuated sections, and positively revolving both ends of said plurality of fliers to cause a twisting of the strands.

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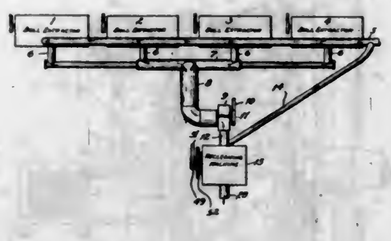
1,690,374. ROAD-GRADING MACHINE. EDGAR S. MCCANDLISS, Topeka, Kans. Filed Mar. 3, 1926. Serial No. 91,980. Renewed Apr. 2, 1928. 2 Claims. (Cl. 37—108.)



1. In improvements in road grading machines, in combination with a road grading machine, a block attached to one end of the machine grading blade, an elevator having a shovel with means to adjustably connect it to said block so that the dirt sliding longitudinally along the blade will enter said shovel, an elevator angling upward and rearward and having the front or lower end engaging under the rear of the shovel and carried thereby, the opposite end being carried by a beam laterally extending from the road grading machine frame, a plurality of toothed members rotatably mounted and carried by the shovel as pulverizing and rearwardly moving means for the dirt to the elevator, a housing having a train of gears journaled therein as power transmitting means from the shaft of the toothed members to the drive shaft of the elevator so that the said members co-act in the transmission of the dirt rearward, power actuating means for the rotation of the toothed members and the travel of the elevator simultaneously.



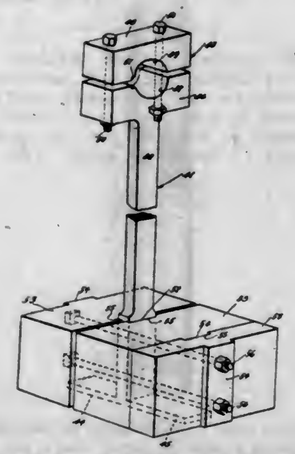
1,690,375. COTTON-RECLEANING MACHINE. JOHN E. MITCHELL and DENNIS PARKS, St. Louis, Mo. Filed Sept. 15, 1925. Serial No. 56,437. 23 Claims. (Cl. 19—41.)



1. In apparatus of the class described, in combination with a cotton cleaning machine, a cotton reclaiming machine having a continuous passage therethrough, pneumatic means for withdrawing hulls and escaped cotton particles from the discharge of the cotton cleaning machine and continuously propelling them through the passage of said reclaiming machine, a rotatable saw cylinder mounted in said reclaiming machine and projecting through a wall of said passage into the path of the propelled hulls and cotton the saws arresting the movement of cotton while permitting the separation and free passage of hulls past said saws, and means outside of said passage for recovering cotton withdrawn by said saw cylinder.

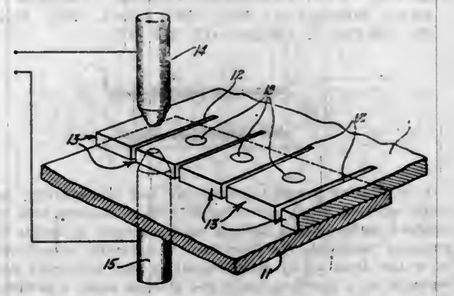
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1,690,376. POWER-TRANSMITTING UNIT FOR WELL RIGS. EDWARD PRATT, Taft, Calif. Filed June 22, 1926. Serial No. 117,664. 5 Claims. (Cl. 74—71.)



4. A counterbalance for the purpose described, embodying an arm, shaft attachment means at one end of the arm, a transverse extension near the other end of the arm, and a detachable weight fixed to the arm and in end engagement with the extension.

1,690,377. METHOD OF WELDING PARTS. EMERSON PUGH, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 15, 1926. Serial No. 135,503. 2 Claims. (Cl. 219—4.)



1. The method of welding parts having substantially the same electrical resistance characteristics, which consists in forming a recess in one of the parts to prevent the introduction of inter-weld stresses, placing the parts in proper juxtaposition, and welding the parts together by the application of heat and pressure to produce welds at positions spaced and oppositely disposed from the recess.

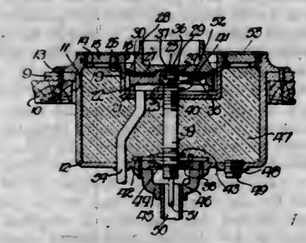
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1,690,378. TREATMENT OF FERROUS METALS TO PRODUCE A PROTECTIVE COATING THEREON. FRANKLIN BLISS RINCK, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 17, 1924. Serial No. 744,291. 14 Claims. (Cl. 148—7.)

1. The treatment of a ferrous metal to produce a protective oxide coating thereon, which consists in subjecting said metal to an oxidizing atmosphere at a temperature which is not appreciably lowered during the process, and simultaneously therewith increasing the oxidizing character of said atmosphere.

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1,690,379. HEATER. CLAUDE THEODORE SIEBS, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 14, 1924. Serial No. 749,829. 10 Claims. (Cl. 219—19.)



7. In a heating device, a receptacle, a supporting member positioned therein, a heating element supported thereby, a container resting partially on the heating element and partially on the supporting member, means for securing the container to the supporting member in such a manner that the container, the heating element and the supporting member can be readily removed from the receptacle as a unit, the said supporting member being equipped with an opening in which terminals of the heat-

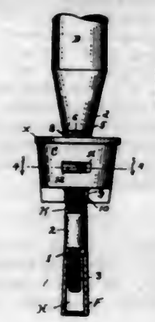
ing element protrude, and means for leading electrical conductors for the heating element to the terminals thereof to which they are connected, said connections being above the bottom of the receptacle.

1,690,380. SAND-DREDGING VESSEL. LEATHEM D. SMITH, Sturgeon Bay, Wis. Filed June 1, 1926. Serial No. 112,773. 7 Claims. (Cl. 214—15.)



1. A floating vessel for dredging and transporting material such as sand, constructed with a storage hold for dredged material and having mounted upon it means for pumping material, together with a vehicular constituent of water, from an overboard position and delivering such material to a position above the storage hold, a dewatering hopper also located above the storage hold in position to receive the material so delivered and discharge its contained water overboard, means for delaying escape of the material from the hopper until dewatering has proceeded to a desired degree, and means for delivering dewatered material from said hopper to the hold of the vessel.

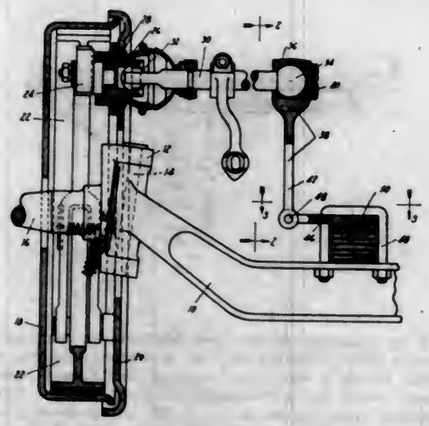
1,690,381. MICROTUNER FOR PIPE ORGANS. HENRY C. TEETOR, Hagerstown, and HERBERT S. MIKESELL, Richmond, Ind. Filed Feb. 1, 1927. Serial No. 165,093. 4 Claims. (Cl. 84—350.)



1. In combination with a pipe organ having an air pipe connected at its lower end with air pressure, a base closing the upper end of said pipe, a chalice having a slot in the side thereof with said chalice extending down from said base, and a reed adapted to close said slot; a microtuner comprising a screw, with its head at all times resting on the top of said base, and having its upper portion rotatably mounted in said body with its threaded portion extending down in front of said slot and parallel therewith but spaced therefrom, means for preventing endwise movement of said screw, a head adapted to be carried up and down by the rotation of said screw, and a flat spring damper having one end thereof attached to said head and with its free portion in resilient contact with said reed, all substantially as set forth.

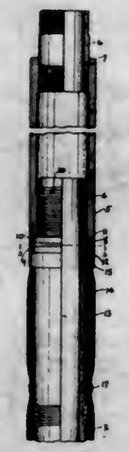
1,690,382. BRAKE-APPLYING MECHANISM. GEORGE J. THOMAS, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 15, 1926. Serial No. 135,527. 4 Claims. (Cl. 188—194.)

1. A vehicle having, in combination, an axle having a front wheel knuckle swivelled at its end, a brake carried by the knuckle, a mounting part on the axle, a support pivoted to said part at its lower end and extending upwardly opposite the upper part of the brake and adapted to swing about its pivot toward and away from said brake,



and a brake-applying shaft universally supported at one end by the upper end of the support and universally supported at its other end by the brake in the swiveling axis of the knuckle.

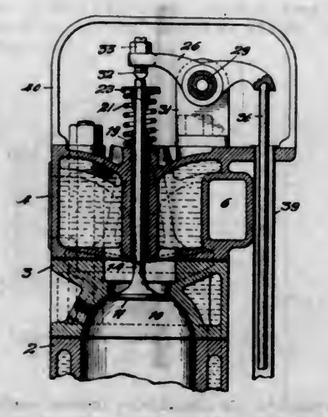
1,690,383. SCREW-TYPE WELL PACKER. HARRY THOMSON, Houston, Tex., assignor to Stancliffe Well Screen & Manufacturing Company, Houston, Tex., a Corporation of Texas. Filed June 29, 1925. Serial No. 40,425. 1 Claim. (Cl. 166—10.)



In a packer for wells, a tubular mandrel, a collar connecting with said mandrel, said mandrel being coarsely threaded at its upper end, a nipple having threaded engagement with the upper end of said mandrel, a downwardly tapered slip suspended on and having rotative engagement with the lower end of said nipple outside said mandrel, a canvas packer on said slip and mandrel and secured at its lower end to said collar, and means to connect said nipple to a tubular drill stem.

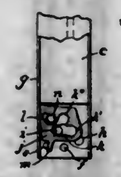


1,690,384. INTERNAL-COMBUSTION ENGINE. FRANK H. TREGO, New York, N. Y., assignor to Trego Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 21, 1923. Serial No. 626,449. 3 Claims. (Cl. 123—79.)



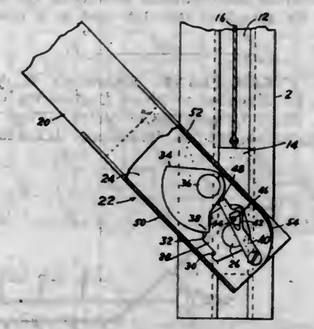
1. In an internal combustion engine, a plurality of cylinders arranged adjacent one another with their axes in the same plane, a valve in the upper end of each cylinder controlling communication between the inside of the cylinder and an outside chamber, each of said valves being provided with a stem lying in said plane, and an inlet and an exhaust valve opening into said chamber above each cylinder and located on opposite sides of the aforesaid plane, said inlet and exhaust valves having stems which are inclined so that their upper ends will lie in the aforesaid plane, a spring cooperating with each valve stem for holding its valve in its closed position, and means cooperating with said valve stems for moving said valves to their open positions in opposition to the forces exerted by such springs.

1,690,385. MEANS FOR MOUNTING WINDOWS. AMABLE S. TUÑEZ, Easton, Pa., assignor of one-fourth to Morris Levin, Philadelphia, Pa.; one-fourth to Harry Gordon, Beverly, N. J.; one-fourth to Charles Riser, Philadelphia, Pa.; and one-fourth to himself. Filed May 19, 1927. Serial No. 192,503. 6 Claims. (Cl. 20—49.)



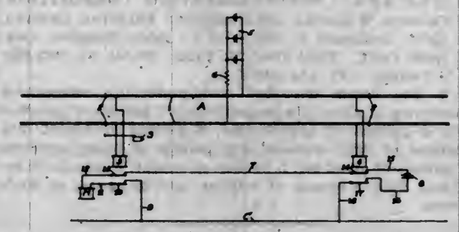
1. In a window, in combination, a stile provided with an arcuate slot, a sash, means affording a pivotal connection between the stile and sash, a displaceable latching member carried by the stile and a pin, carried by the sash and extending through the arcuate slot in the stile, said pin being adapted to be engaged by the latching member to retain the sash in fully opened position and said latching member being adapted to be displaced in an opening followed by a closing movement of said sash to permit said pin to be engaged by the latching member to retain the sash in a partially opened position.

1,690,386. WINDOW. AMABLE S. TUÑEZ, Easton, Pa., assignor of one-fourth to Morris Levin, Philadelphia, Pa.; one-fourth to Harry Gordon, Beverly, N. J.; one-fourth to Charles Riser, Philadelphia, Pa.; and one-fourth to himself. Filed Nov. 25, 1927. Serial No. 235,424. 2 Claims. (Cl. 20—49.)



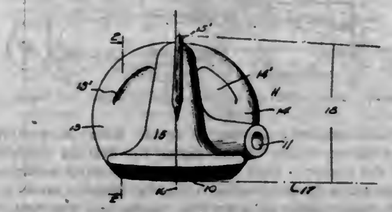
1. A window structure comprising a frame having upwardly extending guideways, blocks slidable in said guideways, a sash pivoted to said blocks, the sash and one block forming relatively movable members arranged to be releasably held in a plurality of predetermined relative positions and means for so holding said members, including a pawl on one member and a plurality of stops on the other member selectively engageable with said pawl.

1,690,387. BLOCK SIGNAL SYSTEM FOR RAILROADS. ARMAND J. VALLÉE, Albany, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Oct. 22, 1927. Serial No. 228,022. 2 Claims. (Cl. 246—41.)



1. In a block signal system, a combination of a block having two track relays; a common wire for the system; a line relay; and a line circuit for said line relay including a line wire and said common wire, two front contacts of each track relay, and a source of energy.

1,690,388. HEAD FOR GOLF CLUBS. FREDERICK A. WALDRON, Westfield, N. J. Filed May 16, 1927. Serial No. 191,561. 8 Claims. (Cl. 273—77.)

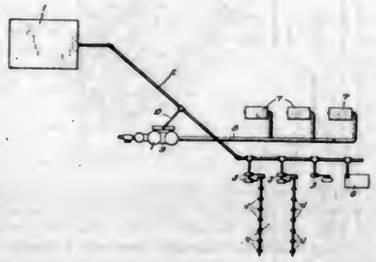


1. A golf club head for drivers, brassies, and the like, comprising a solid unitary member having a solid mass of material concentrated directly back of the center of

the critical area or "sweet spot" of the face of the club head, the face extending a substantial distance to each side of the critical area, a bottom flange extending rearwardly from the face and directly united at its center with the concentrated mass of metal back of the "sweet spot", the bottom flange being wider than the striking face to facilitate longitudinally stabilizing the club, and provisions for attaching the club head to a club handle or shaft.

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1,690,389. STEAM PLANT. FREDERICK H. WILLCOX, Chicago, Ill., assignor to Freyn Engineering Company, Chicago, Ill., a Corporation of Maine. Filed May 17, 1924. Serial No. 713,968. 3 Claims. (Cl. 122—35.)



1. In a steam plant, a main steam generator, a steam line connected thereto, waste heat emitting devices, and an accumulator for storing up in the form of hot water the heat emitted by said waste heat emitting devices, said accumulator being connected to said steam line, said accumulator having a relatively large water storage space compared to an ordinary waste heat boiler of the size requisite for utilizing the waste heat from said waste heat emitting devices.

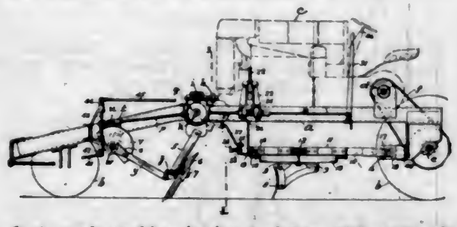
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1,690,390. WOOD-PRESERVING COMPOSITION. CHARLES WILLIAMS and FERDINAND FRANCOIS, Oakland, Calif., assignors of one-third to Eddy Bozonier, Oakland, Calif. Filed Dec. 26, 1923. Serial No. 682,820. 4 Claims. (Cl. 134—40.)

1. The herein described wood-preserving composition consisting of about the proportions of 2 gallons of paraffine oil, 2 gallons of naphthalene, 3 gallons of benzol, 2½ gallons of light creosote, 2½ gallons of heavy creosote, 5 gallons of oil of tar, 5 pounds of cement, 5 pounds of hydrated lime, 5 pounds of sulphur, and 20 ounces of Paris green.

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1,690,391. POWER LIFT FOR ROAD MACHINES. ROY C. WILLIAMSON, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed Sept. 18, 1925. Serial No. 57,061. 10 Claims. (Cl. 37—145.)



1. A road machine having a frame with supporting wheels, a motor on the frame, means for driving the machine by the motor, a road working tool pivotally mounted on the frame, a transverse shaft on the frame, cranks on the shaft, connections between the cranks and the tool, a worm and worm wheel connection for rotating the shaft, and clutch means for connecting the said shaft to the motor for raising or lowering the tool.

1,690,392. INSULATOR PIN. ARTHUR O. AUSTIN, Barberton, Ohio, assignor to American Narrow Fabric Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed May 12, 1920, Serial No. 380,826. Divided and this application filed Mar. 25, 1926. Serial No. 97,187. 11 Claims. (Cl. 173—321.)



1. An insulator pin comprising a tubular member having a body portion tapered towards its upper end, an oppositely tapered base portion and a support for said tubular member having a tapered socket therein for receiving said tapered base portion and having a flange extending radially from said base portion, the opening in said body portion being also tapered toward the upper end of said pin.

4. An insulator pin comprising a tubular member having an elongated upper body portion tapered inwardly toward the top thereof, a base portion tapered inwardly toward the bottom thereof, and a reinforcement disposed within said base portion and tightly held in place therein by the walls of said base portion, said walls being spaced away from said reinforcement between the ends of said pin.

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1,690,393. DEEP-WELL PUMP. HARRY BELOIT, San Pedro, Calif., assignor to Economy Pump and Oil Tool Company, Los Angeles, Calif., a Corporation of California. Filed Dec. 14, 1925. Serial No. 75,379. 5 Claims. (Cl. 103—179.)

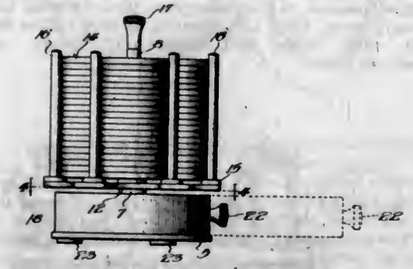


1. A deep well pump including a barrel having an inlet valve therein and a head closing the end thereof opposite said valve, a cylinder stationarily held in and of substantially smaller diameter than said barrel, and a sectional piston having a valve in one end thereof and reciprocably mounted internally of said barrel and externally of said cylinder, certain sections of said piston being spaced apart for providing a lubricant recess around said cylinder.

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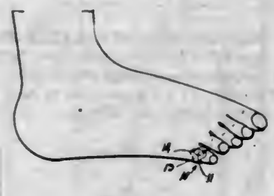
1,690,394. POKER-CHIP SET. FRED R. BELT, Chicago, Ill. Filed Apr. 16, 1928. Serial No. 270,169. 7 Claims. (Cl. 273—148.)



1. An individual poker chip set comprising a base, a post embedded in said base, a plate spaced from said base and revolubly mounted relative to said post, posts spaced about the periphery of said plate and forming compartments to receive chips, and an ash drawer arranged between said base and plate.

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1,690,395. CORN AND BUNION PROTECTOR. SIMON BIREN, Brooklyn, N. Y. Filed Jan. 30, 1928. Serial No. 250,433. 1 Claim. (Cl. 128—153.)

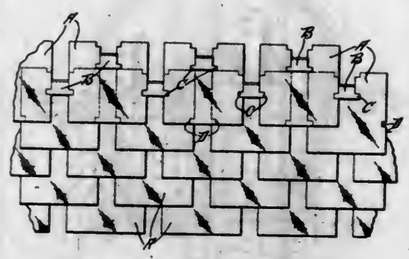


A corn protecting device, comprising a resilient split ring adapted to fit on a toe and having an opening in the top thereof, a dome shaped corn protecting member projecting through the opening, and enlarged top wall portion on the ring and a flange on the dome shaped member in contact with the enlarged portion of the ring to maintain the said member in desired position on the toe.

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1,690,396. SHINGLE. LESLIE W. BLOCK, Webster Groves, Mo. Filed July 14, 1927. Serial No. 205,632. 2 Claims. (Cl. 108—7.)

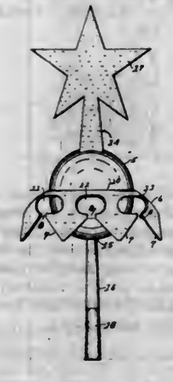
1. A shingle consisting of a section of weatherproof material of substantially uniform thickness throughout its area, said shingle having attached to its weather face and substantially centrally transversely thereof a flat portion extending upwardly a distance substantially equal to the thickness of said shingle, said portion being of a uniform width equal to the distance it is desired to position the shingles of the next upper course, and said portion having a lug extending transversely outwardly from each side thereof and said shingle having a notch in each of its side



edges of a size and shape to conform to the size and shape of said lugs, whereby the said notches may receive the lugs on the attached portions of the next lower course.

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1,690,397. CHRISTMAS-TREE ORNAMENT. PAUL BOEHLAND, Milwaukee, Wis. Filed Feb. 11, 1928. Serial No. 253,571. 6 Claims. (Cl. 240—10.)



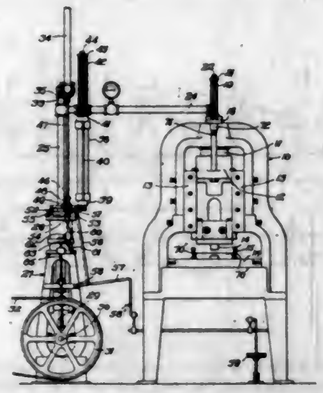
6. An ornament comprising a shaft, a hollow body mounted on the shaft, a light socket and bulb mounted in the hollow body, a spire mounted upon the light bulb, and an outwardly extending flange for the hollow body slotted and apertured to receive light sockets and bulbs.

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1,690,398. APPARATUS FOR PERFORMING PRESSING OPERATIONS. CHARLES BOLLINGER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1923. Serial No. 637,971. 19 Claims. (Cl. 138—10.)

1. In an apparatus for performing pressing operations, a pressing mechanism having a movable element, a valveless pressure mechanism, a body of fluid connecting said movable element and said pressure mechanism, said pressure mechanism operable throughout its effective compress-

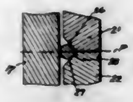
ing stroke to produce a working pressure upon the movable element and capable of supplying a pressure in excess of that required to complete the pressing operation of the



movable element, and means associated with said fluid and operable independently thereof to counteract the development of pressure by said pressure mechanism.

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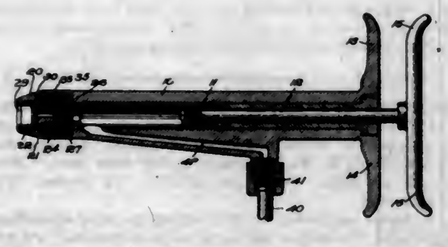
1,690,399. METHOD OF AND MEANS FOR ALIGNING PUMP LINERS WITHIN PUMP SHELLS. LYSLE P. BURGESS, Los Angeles, Calif., assignor, by mesne assignments, to L. P. Burgess, D. Daniels, and J. O. Clutter, as trustees. Filed Oct. 2, 1926. Serial No. 139,198. 6 Claims. (Cl. 74—108.)



1. In combination with an outer pipe and a plurality of inner pipe-sections adapted to be arranged end to end within the outer pipe and to be annularly spaced therefrom, the opposed ends of adjacent sections being cut angularly and oppositely to provid an annular groove of V-cross-section between the ends of said adjacent sections, and an aligning bushing seated within said groove and engaging the inner wall of the outer pipe.

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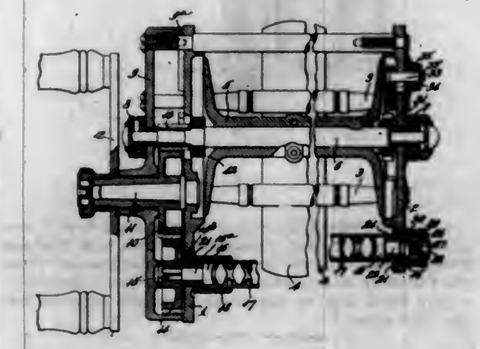
1,690,400. LUBRICATING APPARATUS. MOSES F. CARR, Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,644. 1 Claim. (Cl. 221—47.4.)



A lubricating device comprising a body having a longitudinal bore, a transverse handle integral with and at one end of said body, a quick detachable coupling device secured at the other end of said body, said device being adapted to be coupled with a lubricant receiving fitting by rotation relative thereto, a high pressure plunger in the bore of of said body, a secand handle adjacent the handle on said body and operatively connected to said plunger, and a low pressure lubricant supply connection secured to said body intermediate said handles and said coupling, said connection being in communication with the bore in said body at a point adjacent said coupling device.

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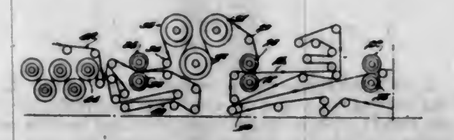
1,690,401. FISHING REEL. FRANCIS M. CASE, Cleveland, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 31, 1923. Serial No. 629,040. 17 Claims. (Cl. 242—84.5.)



1. A fishing reel, comprising a frame, a spool rotatable therein, a braking unit including a radially movable braking member effective upon said spool, and an operating unit for said braking unit, said units being separated but individually remaining intact when the reel is disassembled.

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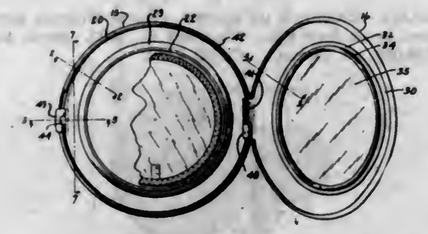
1,690,402. PROCESS AND APPARATUS FOR MAKING PAPER. JOHN C. CONCORAN, Worcester, Mass., assignor, by mesne assignments, to Argy Pre-Heating Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 14, 1927. Serial No. 226,711. 10 Claims. (Cl. 92—38.)



1. In a paper making machine, in combination, means for forming the web from the paper stock, means for mechanically extracting moisture from the web including two sets of presser rolls spaced apart and each set provided with a felt running between the cooperating presser rolls, means for causing the web to pass between the first set of presser rolls while supported upon said felt, and a plurality of heating drums around which the web is led in passing from one set of presser rolls to the other, to cause simultaneous engagement of opposite sides of the web with a heating drum, and means for conducting the web thereafter through the second set of presser rolls while operatively supported upon the felt.



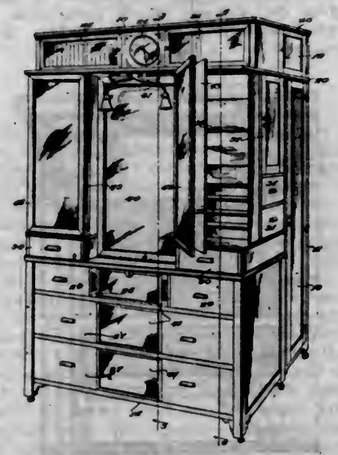
1,690,403. SECTIONAL WALL VANITY CASE. CHARLES N. CORYELL, Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 8, 1926. Serial No. 134,177. 13 Claims. (Cl. 132—83.)



1. A vanity box comprising a pair of cover sections separably connected together, one of said cover sections comprising a frame member and a central compact container, and means including a removable retaining ring surrounding said compact container to removably secure the container to the frame member, said frame member and said compact container each forming a portion of the outer surface of the cover.

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1,690,404. COMBINED DRESSER, WARDROBE, BOOKCASE, AND RACK. FRANK C. DIECKMANN, Cincinnati, Ohio. Filed Mar. 1, 1926. Serial No. 91,612. 2 Claims. (Cl. 45—5.)

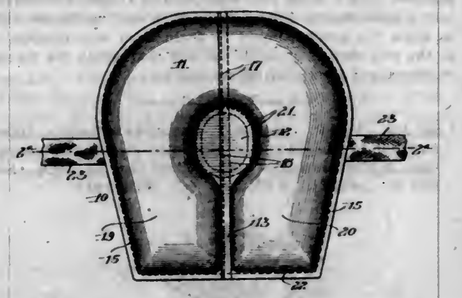


1. In an article of furniture of the type having drawers in the front and drawers and compartments in the side thereof, the combination of a centrally arranged mirror hinged at its top and two mirrors hinged at the sides of said central mirror to swing toward each other, the said central mirror being inset in said article of furniture, and means providing a plurality of open compartments and a secret compartment behind said mirrors.

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1,690,405. KNEE PAD. JOHN H. DU ROCHER, Rochester, N. Y. Filed June 29, 1926. Serial No. 119,421. 2 Claims. (Cl. 2—24.)

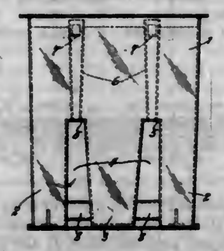
1. A knee pad having relatively soft, opposite surfaces for contact respectively with the knee and a floor or the like comprising a pad curved to enclose a generally circular recessed portion and a narrowed extension thereof conforming substantially in size and shape to the knee and shin bone to receive and support the same and a



limb-supporting web connecting the inner sides of said pad across said recessed portion and extension and between and spaced from said opposite surfaces of the pad.

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1,690,406. REFRIGERANT CONTAINER. GUSTAV J. GRUENDLER, Clayton, Mo. Original application filed Aug. 2, 1926, Serial No. 126,655. Divided and this application filed Nov. 4, 1927. Serial No. 231,035. 6 Claims. (Cl. 62—69.)



1. A refrigerant container for refrigerators having an air passage extending therethrough, an air duct extending downwardly through said container from above said refrigerant into said air passage.

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1,690,407. REFRIGERATOR. GUSTAV J. GRUENDLER and WILLIAM A. MELETIO, St. Louis County, Mo. Filed Nov. 9, 1925. Serial No. 67,877. 3 Claims. (Cl. 62—37.)

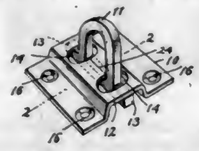


1. A refrigerator having a primary compartment having an ice container therein and a secondary compartment having a receptacle consisting of a coil pipe positioned

along the top thereof and adapted and arranged to receive and hold liquid resulting from the melting of ice in said ice container, a drip pipe arranged to carry said liquid from said ice container and discharge it into one end of said coil pipe, and a drain pipe adapted and arranged to maintain a predetermined level of liquid in said receptacle and to allow the surplus liquid to drain from said receptacle at the end thereof opposite the end into which the liquid is discharged from said ice container.

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1,690,408. HASP. NELSON T. HASENFLUE, Geneva, Ohio, assignor to The Champion Hardware Company, Geneva, Ohio, a Corporation of Ohio. Filed Oct. 25, 1926. Serial No. 143,881. 3 Claims. (Cl. 292—340.)



1. A keeper for a hasp comprising a keeper plate having a pair of spaced openings, an eye having its legs extending through the openings and having a continuous base portion integral with said legs on the underside of the plate, and extending laterally beyond the openings whereby separation of the keeper and eye by movement in any direction is prevented.

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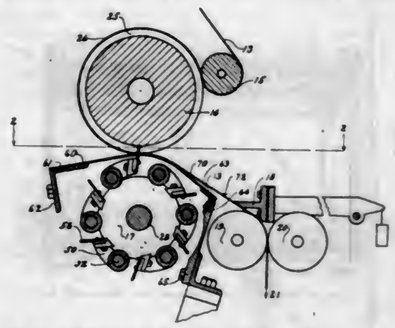
1,690,409. MECHANICAL TOY. NICHOLAS HEYMAN, Newark, N. J., assignor to Henry Katz & Co., New York, N. Y., a Corporation of New York. Filed June 13, 1928. Serial No. 284,960. 3 Claims. (Cl. 104—173.)



1. In an amusement device, a platform having a plurality of continuous slots forming paths which run parallel to each other adjacent opposite sides of the platform, a continuous cable to travel beneath each slot, cable grips clamped to the cables and projecting uprightly through the slots to carry objects along the slots, and means for operating one cable from the movement of the other.

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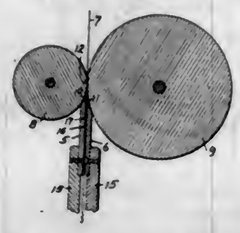
1,690,410. PAPER-PERFORATING MECHANISM. DAVID WILLIAM HUDSON, Green Bay, Wis. Filed Jan. 21, 1927. Serial No. 162,453. 2 Claims. (Cl. 164—99.)



1. In a perforating machine, the combination with a roll carrying outwardly movable perforating teeth, of a die roll having grooves complementary to said teeth and an intermediate comb between said rolls having slots extending in the direction of travel of said teeth during the rotation of the roll upon which they are mounted, and intermediate unslotted portions adapted to support a web upon which said teeth have acted.

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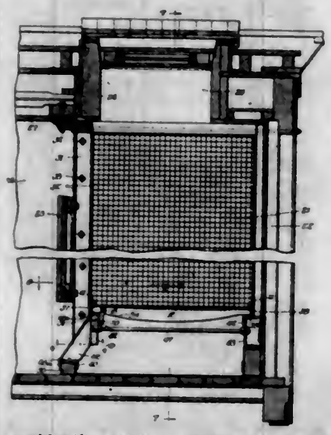
1,690,411. CREPING OF PAPER. DAVID WILLIAM HUDSON, Green Bay, Wis. Filed May 21, 1927. Serial No. 193,086. 6 Claims. (Cl. 92—69.)



1. A device of the character described including a pair of feed rolls and a set of creping blades associated with the feed rolls at the delivery side thereof and spaced to receive a web fed between said rolls, the edges of said blades being offset in the direction of web advance and the space between said blades being intersected by the common tangent of said rolls at the point at which such a web enters said space.

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1,690,412. GRATE CONSTRUCTION FOR THE ICE COMPARTMENTS OF REFRIGERATOR CARS. GEORGE A. HULL, Chicago, Ill., assignor to Equipment Specialties Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 8, 1926. Serial No. 86,714. 19 Claims. (Cl. 62—19.)



1. The combination with a refrigerator car having an ice compartment and supporting members along the sides thereof, of a grate surface comprising a plurality of grate bars each constructed of a sheet metal stamping having end portions of relatively wide channel section affording substantially parallel flanges for resting on said supports, and having an intermediate portion of inverted V-shaped section of relatively narrow transverse dimension.

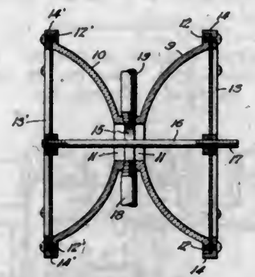
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1,690,413. OSCILLATOR. JOHN C. KANE, Detroit, Mich. Filed Apr. 5, 1923. Serial No. 630,092. 5 Claims. (Cl. 138—23.)

1. A device of the class described, comprising a tubular liquid container; a delivery pipe communicating with said container for delivering liquid thereinto; an outer

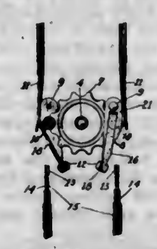


pipe for conducting liquid from said container; a liquid container at opposite sides of said first-mentioned liquid container and communicating therewith; a vibratory closure for each of said oppositely disposed liquid containers; and means for connecting each of said vibratory closures.



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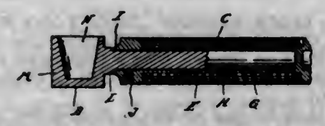
1,690,414. CONTACTOR. THOMAS S. KEMBLE, Cleveland, Ohio, assignor, by mesne assignments, to Universal Gas Electric Company, Lawrence, Kans., a Corporation of Delaware. Filed July 18, 1924. Serial No. 726,681. 13 Claims. (Cl. 200—5.)



13. In combination, a controller, a contact part on said controller, a second contact part on said controller, a third contact part on said controller, said first mentioned contact part being adapted to make successive contact with said second contact part and said third contact part, a make-and-break switch, electrical connections placing said make-and-break switch in series between said second contact part and said third contact part, mechanism adapted to operate said controller and said switch whereby said make-and-break switch is held open while said first mentioned contact part makes contact with said second contact part and whereby said make-and-break switch is closed while said first mentioned contact part is in contact with said second contact part and whereby said make-and-break switch is held closed while said first mentioned contact part makes contact with said third contact part and whereby said make-and-break switch is opened while said first mentioned contact part is in contact with said third contact part.

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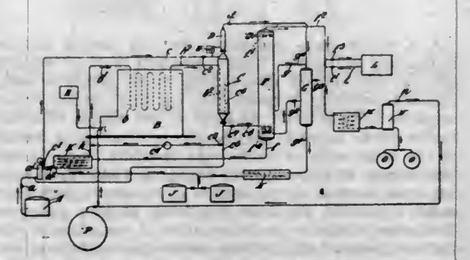
1,690,415. ELECTRIC MELTING POT. FRANK KUHN and LAURENCE H. THOMAS, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 30, 1928. Serial No. 250,498. 4 Claims. (Cl. 219—26.)



4. An electrically heated tool comprising a tubular member, a heating element surrounding said tubular member, a cylindrical metallic shank insertable within said tubular member, an enlarged head integrally united to said stem at the outer end thereof and an annular shoulder on said head for engaging the end of said tubular member, said enlarged head having a recess therein with the axis transverse to the axis of said shank.

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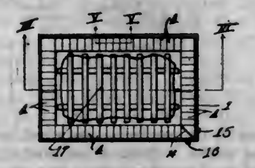
1,690,416. CRACKING OF LIQUID HYDROCARBONS. OWEN DAVID LUCAS and ERNEST LAWSON LOMAX, Westminster, London, England, assignors to V. L. Oil Processes Limited, Westminster, England, a British Company. Filed July 23, 1925, Serial No. 45,525, and in Great Britain Dec. 9, 1924. 3 Claims. (Cl. 196—48.)



1. A process for the production of light from heavy oils which consists in heating the oils rapidly to the cracking temperature in a tube still, passing the heated oils into a conversion chamber in which they are maintained in bulk at the cracking temperature and at a pressure of from 600 to 1,000 lbs. per square inch, drawing off the lighter oils in vapour form into a vapour pressure or refluxing chamber open directly to and forming an extension of the conversion chamber and consequently at the same pressure of 600 to 1,000 lbs. per square inch, maintaining the said refluxing chamber at a temperature substantially below that of the conversion chamber, but sufficiently high to prevent, under the said pressure common to the conversion and refluxing chambers, the condensation of any oils below a predetermined density, condensing the heavier oils in the aforesaid refluxing chamber and then passing the condensed oils without reheating and below the cracking temperature through a branch passage directly back into the conversion chamber for further treatment, simultaneously drawing off liquid oils from the conversion chamber, releasing the said liquid oils through a pressure reducing valve into a lower pressure chamber, and removing the vapour of the lighter oils from the said lower pressure chamber.

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1,690,417. AIR COOLER AND HUMIDIFIER. JOHN A. LUNDMARK, Chicago, Ill. Filed Apr. 5, 1926. Serial No. 99,705. 4 Claims. (Cl. 62—133.)



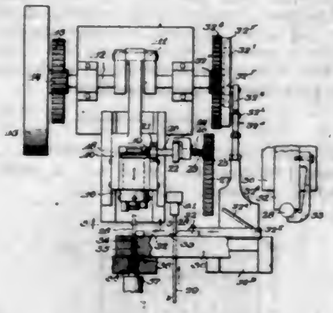
1. In a portable air cooler, a casing, interconnected air cooling compartments extending around the interior wall of said casing, said compartments forming a tortuous path, means for cooling said compartments, means for causing a circulation of air through said compartments and means for closing the path through certain compartments allowing the air to pass in contact with said cooling means.

1,690,418. BOTTLE CRATE. LYNN W. MACOMBER, Battle Creek, Mich., assignor to United States Steel and Wire Co., Battle Creek, Mich. Filed Dec. 27, 1927. Serial No. 242,586. 7 Claims. (Cl. 220—19.)



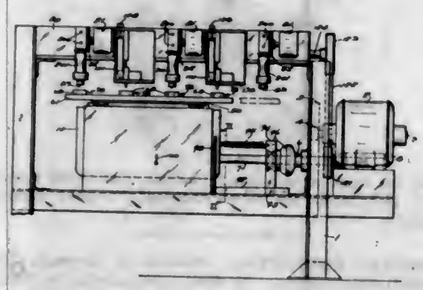
1. A bottle crate comprising top and bottom and intermediate continuous frame members having rounded corners, one of said intermediate frame members being disposed centrally between the top and bottom frame members and the other adjacent to but spaced from the bottom frame member, upright side and end slats welded to the inner sides of said frame members, corner members formed of loops of wire having downwardly diverging arms disposed at the corners of the crates with their bights projecting above the top frame member and with their arms welded to the inner sides of the adjacent side and end portions of the frame members, longitudinal and transverse partition members disposed horizontally in vertically alined spaced crossed relation and welded to each other and to said intermediate frame members providing a series of compartments, transverse bottom members welded at their ends to the upper side of said bottom frame member, and longitudinal bottom members disposed in spaced pairs below said compartments and welded to said transverse bottom members, said longitudinal bottom members having downwardly offset ends welded to the end portions of said bottom frame member.

1,690,419. MACHINE FOR HEADING BLANKS. PAUL H. MCCAIN, Chicago, Ill., assignor to Economy Screw Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 17, 1924. Serial No. 699,770. 3 Claims. (Cl. 10—12.)



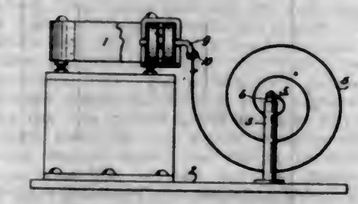
1. A machine of the character described having a forming recess into which a blank is adapted to be inserted, means operating in timed relation with the plunger for positioning the end of the blank over the recess, a reciprocable plunger, a punch carrying support mounted upon the plunger for movement therewith and for rotatable movement with respect thereto and in a direction transverse to the direction of reciprocation of the plunger, a plurality of punches carried by said support, and means for intermittently rotating said punch carrying support to successively position the punches to act upon the blank, the last recited means embodying a gear connected with the punch carrying support, an actuating gear meshing with the first said gear and means for intermittently rotating the actuating gear.

1,690,420. BRUSH-MAKING MACHINE. JOSEPH W. MICHAELIS, Toledo, Ohio. Filed Dec. 22, 1922. Serial No. 608,429. 10 Claims. (Cl. 300—3.)



1. In a brush machine, three or more seat producing and material inserting tools in a straight line, the material inserting tools being mounted alternately in relation to the seat producing tools, a movable indexing slide extending parallel to the line of said tools, clamps for brush blanks located on the indexing slide to the number of one less than the combined number of the seat producing and material inserting tools, said indexing slide being adapted to be shifted manually to move said clamps alternately under the seat producing and material inserting tools, and positioning mechanism for moving the indexing slide step-by-step in transverse directions in a plane at right angles to the said tools, and driving means for reciprocatorily moving the indexing slide toward and away from said tools.

1,690,421. SOUND RADIATOR. CHARLES R. MOORE, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 15, 1923. Serial No. 645,616. 7 Claims. (Cl. 181—31.)

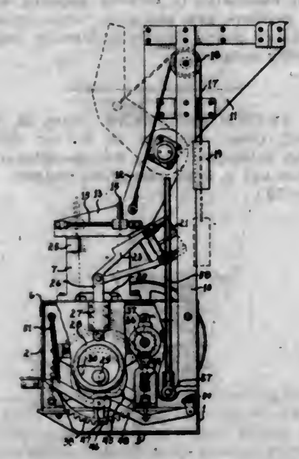


1. In combination, a sound radiator comprising a sheet of paper coiled in substantially spiral form, said spiral having an axial dimension greater than its diameter, means for holding the inner edge of the spiral stationary, and means for imparting vibrations representing sound to said sheet near the outer end of the spiral.

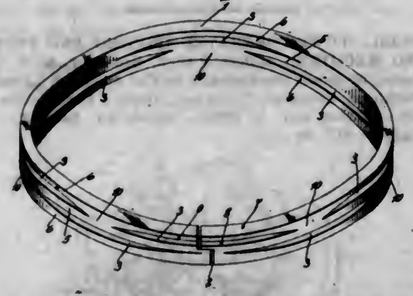
1,690,422. BLOCK MACHINE. FRANK XAVIER MUENZER, Elmore, Ohio, assignor to The Multiplex Concrete Machinery Company, Elmore, Ohio, a Corporation of Ohio. Filed Aug. 5, 1927. Serial No. 210,756. 9 Claims. (Cl. 25—41.1.)

1. In a block forming machine, a forming box, a tamping head movable into the box from the upper end thereof, a pallet rest for the bottom of the box, means forcing said tamping head into the box, and means to force the pallet rest toward said tamping head during the latter portion of movement of the head and to continue such movement after the movement of the head has been discontinued and reversed, thereby partially to eject the block from the forming box.





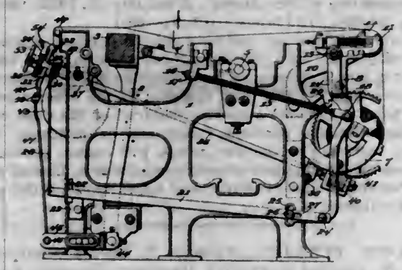
1,690,423. PISTON RING. ARDEN JOHN MUMMERT, University City, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a Corporation of Delaware. Filed Oct. 9, 1926. Serial No. 140,625. 4 Claims. (Cl. 74—109.)



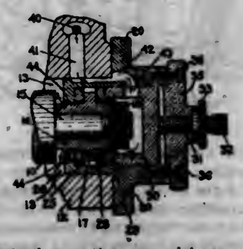
1. An axially compressible piston ring comprising a resilient split band having two circumferentially disposed rows of slots with the slots in one row staggered in relation to the slots in the other row, and said slots having the outer walls thereof substantially arcuate in shape and having the inner walls of the slots in one row substantially parallel to the inner walls of the slots in the other row.

1,690,424. LET-OFF MECHANISM. JONAS NORTHROP, Hopedale, Mass., assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 11, 1927. Serial No. 167,504. 6 Claims. (Cl. 139—110.)

1. A let-off mechanism for looms having, in combination, a loom frame, warp supporting means, gearing connected therewith, a shaft connecting with the gearing extending from the lower back part of the loom to the upper front part of the loom and adapted to be rotated manually from the front of the loom, a ratchet and pawl mechanism for actuating the shaft and including a pawl carrier mounted for rocking movement, a spring for moving the pawl carrier in one direction, a connection between the pawl carrier and lay for moving the pawl carrier in the opposite direction, a whip roll supported for movement in response to variations in the tension of the warp, and means controlled by the movement of said whip roll to vary the stroke of said pawl carrier to thereby vary the feeding of the warp by the warp beam.



1,690,425. END-THRUST BEARING FOR GRINDING-WHEEL SPINDLES. CHARLES H. NORTON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed July 3, 1920, Serial No. 393,913. Divided and this application filed Aug. 1, 1922. Serial No. 579,031. 1 Claim. (Cl. 308—166.)



A grinding wheel mounting comprising a casing, a radial bearing mounted therein, a wheel spindle mounted in and extending beyond the end of the radial bearing, a flange on the extension of the spindle spaced from the end of said radial bearing, an annular thrust receiving flange rigidly mounted on the casing and depending between the flange on the spindle and the radial bearing and spaced from the latter, an adjustably positioned outer thrust receiving cup engaging the opposite side of the spindle flange and readily accessible means to adjust the position of said cup during rotation of the spindle.

1,690,426. PROCESS FOR THE COATING OF PERVIOUS MATERIAL. NORMAN E. OLIVER, New York, N. Y., assignor to Hermetite Corporation, New York, N. Y., a Corporation of New Jersey. Filed May 29, 1925. Serial No. 33,635. 12 Claims. (Cl. 91—68.)

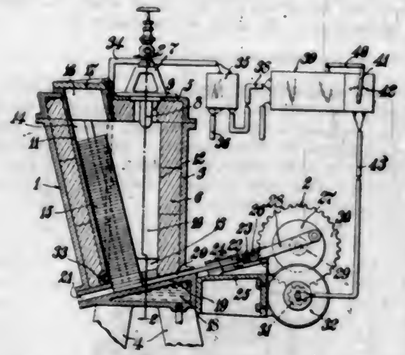
1. In a process for coating a pervious material, first subjecting said material to mechanical treatment whereby the openings or interstices therein are reduced in size and the fibres are flattened to enhance smoothness of the surface, then applying to the surface of the material a coating compound of the class comprising cellulose, celluloid compounds or mixtures, lacquers, varnishes or the like, and having a high degree of pliability when dried and forming upon the outer face of the treated material only one layer which does not permeate and embed the fibres, whereby the formation of embedded immovable fibres within the layer coating is precluded, and then drying said single-layer surface coating to produce the completely finished product.

1,690,427. PROCESS FOR THE COATING OF PERVIOUS MATERIAL. NORMAN E. OLIVER, New York, N. Y., assignor to Hermetite Corporation, New York, N. Y., a Corporation of New Jersey. Filed May 29, 1925. Serial No. 33,636. 12 Claims. (Cl. 91—68.)

1. In a process for coating a pliable pervious material, first subjecting only one side of said material to a treating step which closes or reduces the size of the interstices or pores thereof, and then applying to the other side of said treated material a coating material of the class comprising cellulose, celluloid compounds or mixtures, lacquers, varnishes or the like, which will remain pliable in the coating and produce at said coated side a finished surface retaining the pliability and appearance of the pervious material.

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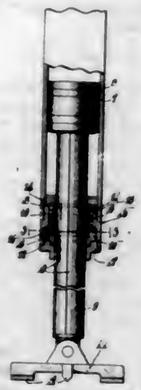
1,690,428. FURNACE. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 11, 1925. Serial No. 14,770. 20 Claims. (Cl. 263—6.)



1. In a blank heating furnace, a vertically elongated combustion chamber having provision at its lower end for the discharge of the products of combustion therefrom, a blank guide extending toward the bottom thereof, and a burner carried by the top of said furnace and discharging downwardly toward the bottom of said chamber, the blanks in said guide moving in the direction of the burner discharge and directly in the path of the flame.

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1,690,429. FEEDING MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 21, 1922. Serial No. 608,303. 31 Claims. (Cl. 121—5.)



3. In a drilling mechanism, the combination with means for rotating the drill steel and means for feeding the steel comprising a pair of telescoping feeding members having relative longitudinal movement during feeding, of feed control means responsive to the resistance to drill steel rotation for automatically variably applying friction between said members, said automatic means including frictional resistance means directly frictionally engaging one of said feeding members.

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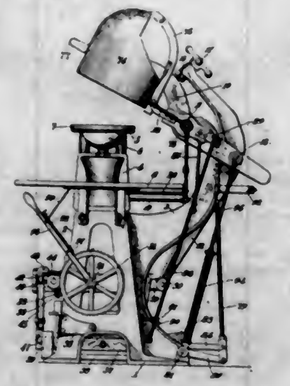
1,690,430. SWITCH MOVEMENT. CARL M. PETERSEN, Bridgeport, Conn., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 9, 1926. Serial No. 100,860. 8 Claims. (Cl. 200—70.)



1. In a switch mechanism an oscillating element, a locking plate mounted for reciprocatory movement, coacting locking means carried by the plate and element, said plate having an opening therein and inwardly extending tapered lugs on opposite sides of said opening, a cam mounted for turning movements and located in said opening, said cam having surfaces coacting with the said lugs to shift the plate and unlock the oscillating element, a spring for oscillating said element, and an operating means connected to the cam and arranged to wind said spring.

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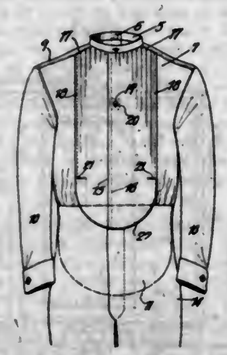
1,690,431. POWER-OPERATED IRONING AND PRESSING MACHINE. HARRY PIERCE, Brooklyn, N. Y., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 5, 1922. Serial No. 549,814. 15 Claims. (Cl. 68—9.)



1. In an ironing and pressing machine, the combination with a stationary pressing member, and a pivotally mounted pressing member, of motor actuated operating means for moving the pivoted pressing member into and out of pressing position, means for locking the pivoted pressing member in both open and closed positions, and operator operated control mechanism for controlling the motor actuated operating means and directly connected to said locking means for releasing the same.



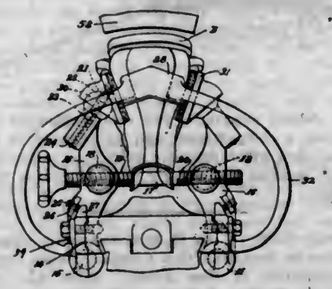
1,690,432. SHIRT. EDWARD J. QUIGLEY, Newark, N. J. Filed Nov. 1, 1926. Serial No. 145,435. 1 Claim. (Cl. 2—118.)



A shirt comprising a body piece extending continuously across the front of the shirt, a bosom section superimposed upon the body piece, the bosom section having its vertical edges secured to the body piece by rows of stitching which terminate a considerable distance above the lower end of the bosom and near the edges of the bosom, leaving the lower part of the bosom extending downwardly in the form of a free tongue and the middle portion of the bosom between the lower ends of the rows of stitching being unattached to the shirt.

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1,690,433. SHOE-PRESSING MACHINE. FRED RICKS and REGINALD BOYD WOODCOCK, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 16, 1925, Serial No. 23,670, and in Great Britain Aug. 16, 1924. 21 Claims. (Cl. 12—33.)



1. A shoe leveling machine having a power-operated mechanism comprising a leveling member and a last supporting means comprising a last heel support, a last forepart support and means for additionally supporting against leveling pressure on the shoe bottom a jointed last carried by the two first-named supports in the neighborhood of the joint, the additional supporting means having freedom of movement laterally of the last to accommodate itself to the contour thereof.

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1,690,434. BOILER-PIPE CLEANER. LOUIS ROCKELMAN, Salt Lake City, Utah. Filed Dec. 21, 1926. Serial No. 156,209. 2 Claims. (Cl. 15—104.10.)

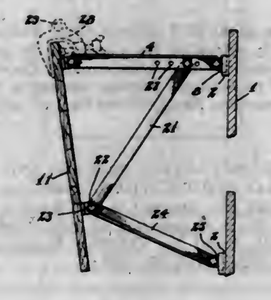
1. In an apparatus of the class described the combination of an externally threaded collar; set screws through one end of said collar; an internally threaded member to fit within said collar, and having a flange on one end and the portion of the member near said flange slightly spherical in form to allow for tilting movement of the member within said collar; a threaded rod to operate in the threads in



said flanged member; a cutting blade adjustably secured near the end of said rod; a set screw to hold said cutting blade; a hole through the other end of said rod; and a handle passed through said hole to turn said rod.

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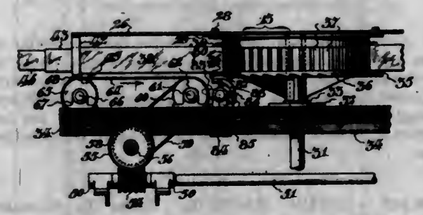
1,690,435. OUTBOARD-ENGINE BRACKET. LLEWELLYN T. SAVAGE, Boston, Mass., assignor to John M. Keyes and Laura H. Keyes, Concord, Mass. Filed Apr. 13, 1927. Serial No. 183,495. 2 Claims. (Cl. 115—17.)



1. The combination with the hull of a boat, of a bracket attached thereto and extending outwardly therefrom, an outboard engine support pivotally attached to the bracket, and a strut pivotally attached to the outboard engine support and adjustably attached to the bracket, whereby the angle of the outboard engine support with respect to the hull may be varied at will.

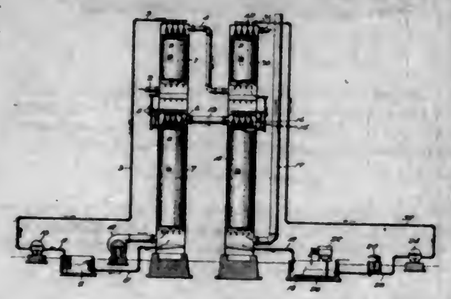
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1,690,436. DRYING MACHINE. WALTER W. SIBSON and HARRY H. WIGGLESWORTH, Philadelphia, Pa., assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 5, 1924. Serial No. 717,941. 19 Claims. (Cl. 198—19.)



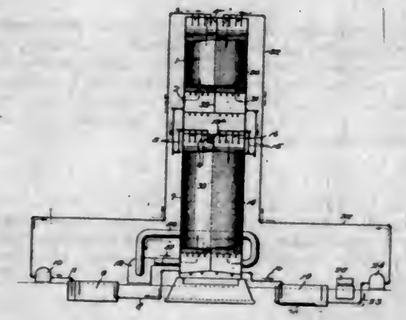
1. A drying machine comprising an annular enclosure, means operative to intermittently progress a series of form carriers therethrough, and co-ordinated means for telescopically ejecting and entering the form carriers by direct alternate motion for stripping and after reclothing, respectively.

1,690,437. GAS-PURIFICATION PROCESS AND APPARATUS. FREDERICK W. SPERR, Jr., Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 6, 1924, Serial No. 718,254. Renewed Jan. 23, 1928. 9 Claims. (Cl. 23—225.)



1. A process of the kind referred to for purifying gases, characterized by subjecting the gas, after the greater portion of the impurities have been removed therefrom by a first washing, to a second washing employing freshly regenerated air washing liquid, for the purpose described.

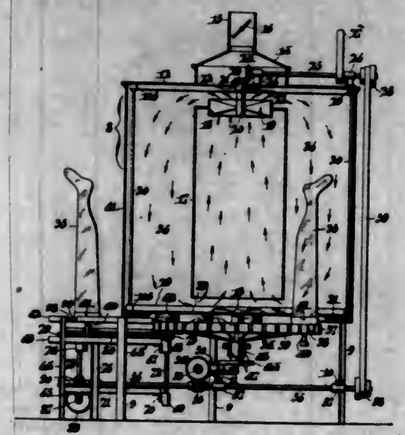
1,690,438. RECIRCULATING PROCESS AND APPARATUS FOR GAS PURIFICATION. FREDERICK W. SPERR, Jr., Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 6, 1924, Serial No. 718,255. Renewed Jan. 23, 1928. 11 Claims. (Cl. 23—225.)



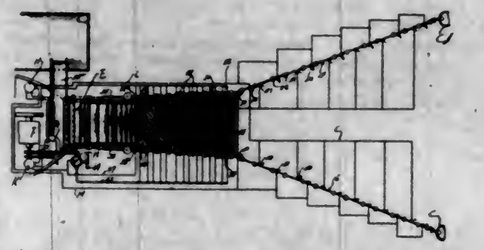
1. A process of the kind referred to for the purification of gases involving the steps of washing gas with a liquor to absorb impurities, aerating such wash liquor to regenerate the same and washing the air to remove the impurities, characterized by recirculating the air from which the impurities have been removed back to the liquid regeneration stage.

1,690,439. DRYING MACHINE. HARRY H. WIGGLESWORTH, Philadelphia, Pa., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 29, 1924. Serial No. 709,751. 22 Claims. (Cl. 198—19.)

1. In a drying machine having a cylindrical drying chamber; a rotatable closure therefor adapted to progress detached form carriers, the form portions whereof traverse said chamber and are held against relative positional displacement by said closure; means functional to radially withdraw and return successive carriers for form stripping and clothing; and means to impart a half-turn to each successive carrier intermediate the periods of radial movement so that it re-enters the machine with non-reversed directional displacement.

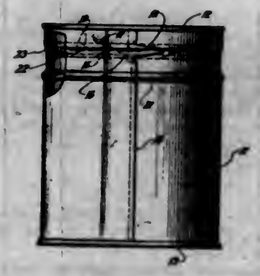


1,690,440. FISHING APPARATUS. LIN E. BAKER, Chicago, Ill. Filed Feb. 7, 1927. Serial No. 166,539. 15 Claims. (Cl. 43—9.)



1. In fishing apparatus the combination of a fishing net having a compartment and an opening to the compartment thru which fish may enter, and means for intermittently passing an electric current across said compartment.

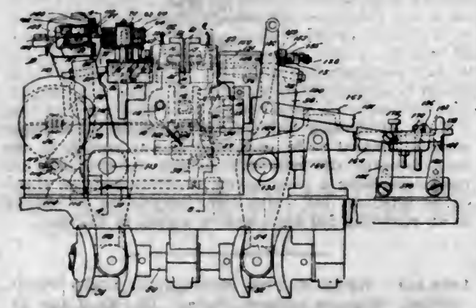
1,690,441. CAN. KARL S. BRECKENRIDGE, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 16, 1925. Serial No. 23,474. 1 Claim. (Cl. 220—54.)



A reclosure cylindrical tearing strip can having in combination a body the top and bottom of which are of equal diameter, a top and bottom united with said body, said body being necked in at a distance below the top so as to be formed with a part of smaller diameter than the upper part of the body and also of smaller diameter than the lower part of the body, and a tearing strip set off around said body, the upper line of said tearing strip being formed on the upper part of the body which is of larger diameter, and the lower line of said tearing strip being formed on the necked in portion of the body, whereby, after the tearing strip has been removed, the part of the body above the tearing strip will fit outside of and around said necked in portion, and the upper part of the can will be in line with the bottom part of the can.

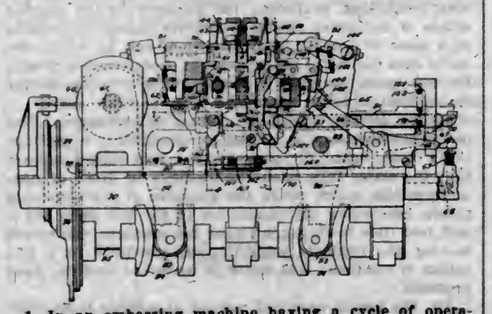


1,690,442. EMBOSSING AND PRINTING MACHINE. CLIFTON CHISHOLM, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 27, 1924. Serial No. 745,968. 30 Claims. (Cl. 197—6.2.)



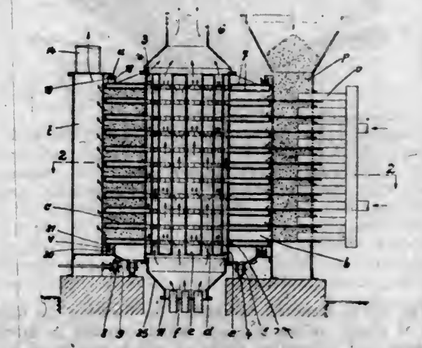
1. The combination with embossing mechanism, of means for guiding and feeding a ribbon of material to be embossed, means for holding a strip of paper, mechanism for printing successive characters thereon in the direction of the length of the strip including means for feeding the strip lengthwise, a keyboard and mechanism actuated thereby for operating both the embossing mechanism and the printing mechanism, mechanism for severing the embossed portion of the ribbon, a group of words printed on the paper strip corresponding to a single cut-off embossed strip, and each group of words corresponding to successive embossed strips aligning with the preceding printed group.

1,690,443. CONTROLLING DEVICE FOR THE KEYS OF KEYBOARD MACHINES. PETER M. COLQUHOUN, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 9, 1925. Serial No. 14,118. 28 Claims. (Cl. 197—6.2.)



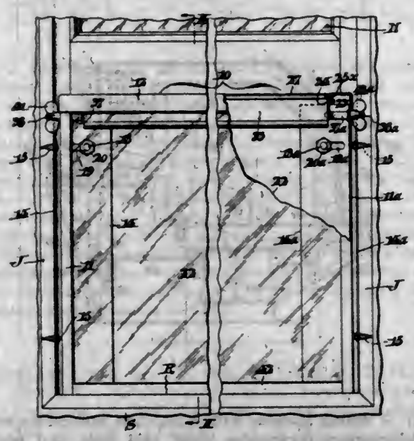
1. In an embossing machine having a cycle of operations initiated by the actuation of a key, the combination of a keyboard, a set of dies, means for holding material to be embossed thereby, there being a neutral position of the dies relative to said material, means for changing and restoring the juxtaposition of the dies and material, the keyboard having finger keys adapted to actuate the last mentioned means, means for restoring an actuating key before the cycle of operation is complete and and means for preventing the actuation of a subsequent key, until the neutral position of the dies relative to the material is restored.

1,690,444. APPARATUS FOR DRYING OR SMOLDERING LOOSE MATERIAL. OTTO DOBBELSTEIN, deceased, Essen-on-the-Ruhr, Germany, by Karoline Dobbelstein, administrator, Essen-on-the-Ruhr, Germany. Filed Nov. 26, 1926, Serial No. 150,909, and in Germany Nov. 30, 1925. 5 Claims. (Cl. 34—32.)



1. An apparatus for heating loose material, comprising a vertical rotary drum provided with annular heating chambers located one above the other and spaced from each other to provide chambers for the loose material, heating means for said heating chambers, means for supplying the loose material to the chambers provided between the heating chambers and to remove the said material therefrom, a stationary jacket surrounding said drum and heating chambers and adapted to collect the gas or vapor developed from the loose material, and a liquid seal between said jacket and rotary drum.

1,690,445. VENTILATOR. FLEMING B. FOWLER, Baltimore, Md. Filed Aug. 31, 1927. Serial No. 216,655. 3 Claims. (Cl. 98—99.)

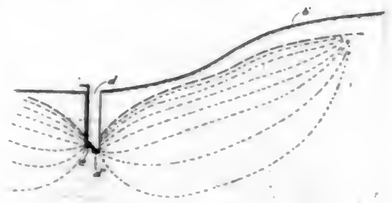


1. A ventilator of the character described comprising a deflecting baffle, counterpart triangular end casing members struck from sheet metal with iuwardly-directed com-

plementary flanges along vertical edges for attachment to the window frame as well as similar flanges along inclined edges to overlap and retain the deflecting baffle, and an open screen cover member also struck from sheet material with perimetric flanges to fit over the end casing members and the deflecting baffle.

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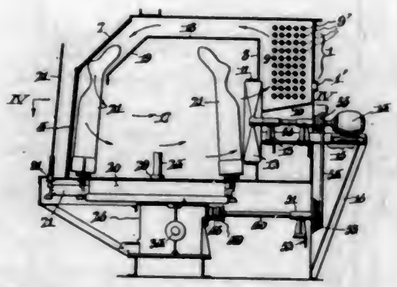
1,690,446. LEACHING PROCESS. RICHARD F. GRANT, FRANKLIN B. RICHARDS, and HERBERT E. WETHERBEE, Cleveland, Ohio, assignors of one-fourth to Howard M. Hanna, Cleveland, Ohio. Filed Mar. 31, 1925. Serial No. 19,684. 1 Claim. (Cl. 262—3.)



The herein described operations for insuring the leaching of copper values in place, which consists in driving a shaft and connecting drifts to widen operations at a level below that of the surface water, providing localized trenches or containers at the surface appurtenant to such underground workings, supplying a solution of ferric sulphate of approximately 4% dilution above the drifted area of copper ore, permitting its continued percolation in quantity through the ore body, and pumping the surface water and percolating leaching fluid from the level of the drifts.

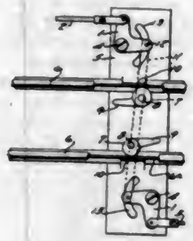
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1,690,447. AUTOMATIC DRYING MACHINE. WILLIAM P. GREINER, Philadelphia, Pa., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1924, Serial No. 754,111. Renewed Aug. 31, 1927. 27 Claims. (Cl. 34—12.)



21. A drying machine with a moisture exhausting zone, article-carriers progressive about said zone, and means adapted to selectively thrust non-consecutive article-carriers horizontal relative thereto to effect application and removal of the articles treated.

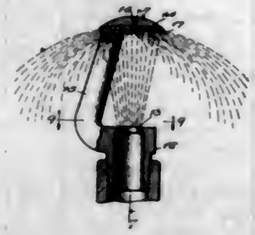
1,690,448. TRACK FOR TOY TRAINS. FRANK HORNBY, Liverpool, England, assignor to Meccano Company, Inc., Elizabeth, N. J., a Corporation of New York. Filed Mar. 18, 1926, Serial No. 95,521, and in Great Britain Mar. 23, 1925. 4 Claims. (Cl. 246—388.)



1. In combination with a track for toy trains, a sleeper element adapted to be positioned in any portion of the track beneath the rails and secured thereto, said element comprising a plate having pivotally mounted thereon at least one bell crank lever adapted to be coupled to an operating rod for a switch, signal, or the like.

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1,690,449. METHOD FOR PREPARING FOOD PRODUCTS. WILLIAM JOURDAN, Chicago, Ill. Filed Aug. 21, 1925. Serial No. 51,620. 10 Claims. (Cl. 99—11.)



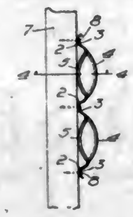
4. The herein described method of cooking meat products comprising, subjecting the products to the cooking action of hot water falling by gravity upon the products in a more or less finely divided state and by which the water does not strike the products at predetermined points, the hot water carrying with it suitable coloring matter for application to the product.

6. The herein described method of preparing food products comprising, arranging the products in a substantially closed space, directing hot water in such a manner that the water falls upon the products in drops of non-uniform size which strike the products at indeterminate points, continuing the application of the hot water for a sufficient time to thoroughly cook the products, and before moving the products subjecting the products to a like action of relatively cold water to wash and cool the meat products.

10. The herein described method of cooking meat products, which consists in drenching the products with hot water, continuing the drenching application of the hot water until the products are cooked, and drenching the products with cold water to cool and wash same.



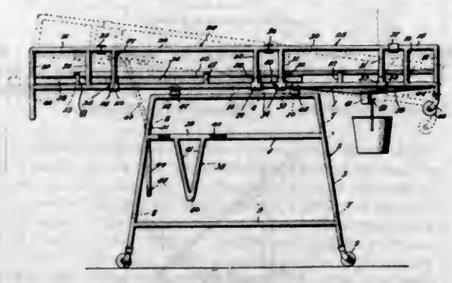
1,690,450. METAL LATH. JOHN H. KILLION, Chicago, Ill. Filed Sept. 17, 1926. Serial No. 136,149. 2 Claims. (Cl. 72—116.)



1. A metal lath construction comprising a metal sheet having a plurality of parallel slits, the metal between adjacent slits constituting ribs, alternate ribs being bowed outwardly from the face of one side of the sheet and the remaining ribs being bowed outwardly from the face of the other side of the sheet, and all of said ribs being stamped to provide a trough on the outer convex surface of the rib, and a curved ridge on the inner surface whereby the original width of the rib is decreased.

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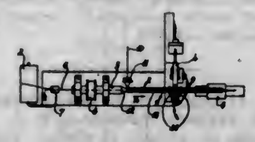
1,690,451. CONVERTIBLE EMBALMING TABLE. HARRY M. LEONARD, Rantoul, Ill. Filed Sept. 10, 1926. Serial No. 134,704. 5 Claims. (Cl. 45—50.)



1. An embalming table comprising a bottom frame and side frames upstanding therefrom, frame members extending longitudinally between the side frames of the table and in parallel relation to one another, and a bottom comprising a sheet metal body having alternately arranged upwardly and downwardly presented corrugations disposed between the side members of the frame and with certain of the downwardly presented corrugations engaging over said parallel frame members.

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1,690,452. MACHINE FOR THE MANUFACTURE OF WIRE SPIRAL. JEAN PIERRE MANENT and MARIUS MANENT, Lyon, France. Filed July 30, 1926, Serial No. 126,040, and in France Aug. 1, 1925. 11 Claims. (Cl. 153—67.)



1. In a machine for making wire-spiral, mechanism for continuously coiling a wire around a continuously-advancing core-forming thread; automatically-operating mechanism for periodically severing a length of coil from the front end of the advancing coil; and means for automatically clamping the free end of the coil, in rear of the severed length, to the thread after each severing operation and while the advance of said thread continues.

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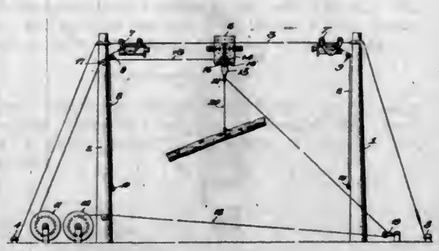
1,690,453. BELTING. FRANK O. MARSHALL, Chicago, Ill. Filed May 2, 1925. Serial No. 27,356. 6 Claims. (Cl. 74—63.)



2. A belt formed of flexible material, provided with relatively long and narrow and substantially rigid stiffening elements, said elements being disposed in parallel spaced apart rows extending both longitudinally and transversely of the belt said rows being sufficiently spaced apart longitudinally of the belt to permit the same to freely flex in the longitudinal direction, and said transverse rows being disposed transversely of the belt to prevent the opposed longitudinal marginal areas from flexing in a transverse direction while permitting the belt to flex intermediate said marginal areas in a transverse direction to conform to the crown of a pulley when applied thereto.

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1,690,454. TRANSPORTER. HERMAN OSCER NELSON, Doty, Wash. Filed Apr. 11, 1927. Serial No. 182,875. 9 Claims. (Cl. 212—103.)



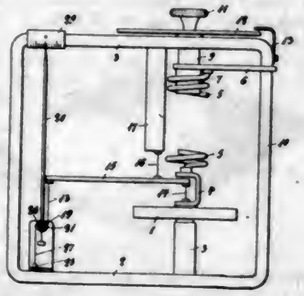
1. In a device of the character described, the combination of a track or way, an abutment at either end thereof, a carriage mounted to travel on said track or way, and a sheave block supported by said carriage, said carriage having two oppositely disposed, horizontally sliding members each with an abutment-engaging shoulder on its outwardly extending end, a downwardly extending sliding member having a sheave block supporting shoulder on its lower end, catches for retaining the several shoulders in engaging relation, means actuated by the downwardly extending sliding member for tripping the catches of the abutment-engaging shoulders, and means actuated by the horizontally sliding members for tripping the catch of the sheave block engaging shoulder.

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1,690,455. APPARATUS FOR MEASURING VARIABLE FORCES. JOSUA GABRIEL PAULIN, Stockholm, Sweden. Filed Jan. 15, 1926, Serial No. 81,546, and in Germany Nov. 23, 1925. 10 Claims. (Cl. 73—4.)

1. In an apparatus for measuring variable forces in combination with a movable measuring member operating under the influence of said forces and a device for indi-

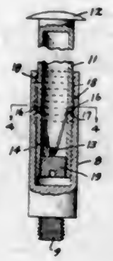
cating the movements of the measuring member, a movement transmitting lever having arms of different length, a yielding suspension device for said lever secured to the lever in the proximity of its centre of rotation, means connecting the shorter lever arm with the measuring mem-



ber, and means connecting the longer lever arm with the indicating device so as to transmit magnified movements of the measuring member to the indicating device through the medium of said lever adapted to operate frictionless and without play.

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1,690,456. BINDER POST. HAROLD T. PAYNE, Sacramento, and FORREST R. YOUNG, Quincy, Calif. Filed Feb. 21, 1927. Serial No. 170,023. 1 Claim. (Cl. 85—4.)

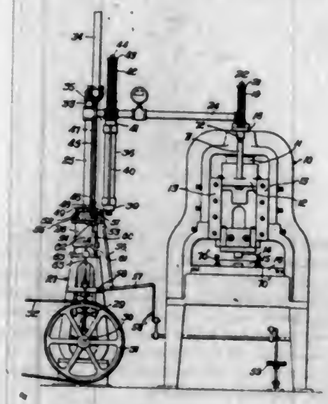


A binder post of the character described comprising a cylinder formed with ratchet teeth in the inner face thereof and a hollow plunger slidable in the cylinder having a V-shaped spring therein with a pin extending transversely through the plunger and the apex of the spring and with the ends of the spring bent outwardly and projecting outwardly through the wall of the plunger for engagement with the ratchet teeth so as to allow relative motion of the cylinder and the plunger in one direction only and a plug in the end of the plunger extending to within close proximity of the pin for confining the apex of the spring therebetween.

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1,690,457. APPARATUS FOR PERFORMING PRESSING OPERATIONS. GEORGE ALGER PENNOCK, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 10, 1923. Serial No. 637,972. 10 Claims. (Cl. 138—10.)

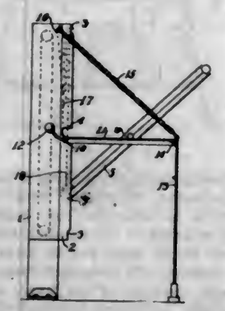
1. In an apparatus for performing pressing operations, a pressing mechanism having a ram, a valveless pressure mechanism, a body of fluid connecting the ram and said pressure mechanism in such a manner that each actuation of the ram is directly responsive to each actuation of the pressure mechanism, said pressure mechanism operable throughout its effective compressing stroke to produce a working pressure upon the ram and capable of supplying



a pressure in excess of that required to complete the pressing operation of the ram, and a mechanism for diverting a portion of the fluid and maintaining the continuity of the fluid body to counteract the development of excess pressure by the pressure mechanism.

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1,690,458. DRYING-FRAME SUPPORT. LOREN W. RICKEY, Santa Cruz, Calif., assignor of one-half to William O. Kerrick, Santa Cruz, Calif. Filed Oct. 11, 1926. Serial No. 140,937. 3 Claims. (Cl. 45—24.)



2. A structure of the character described, comprising a supporting frame and a stretcher frame, guideways in the supporting fame having openings in the opposite ends thereof and rollers carried by said stretcher frame adapted to pass through said openings and engage the said guideways, pivots mounted on said stretcher frame on its longitudinal axis, collapsible supports connected to the supporting frame at n point midway between the guideway openings and means for slidably supporting said pivots on the collapsible supports.

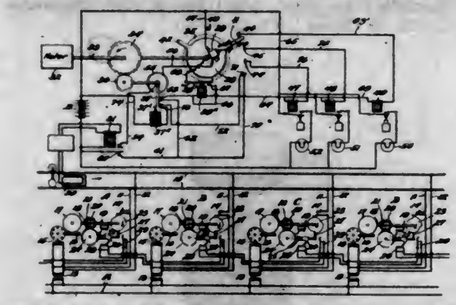
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1,690,459. AUTOMATIC TRAIN-CONTROL SYSTEM. EDWARD C. SASNETT, Washington, D. C. Filed Aug. 7, 1925. Serial No. 48,747. 21 Claims. (Cl. 246—63.)

1. A railway signalling system including a stretch of track the rails of which are conductively continuous, means for connecting alternating electrical energy intermittently across the track rails at suitably spaced points, said means



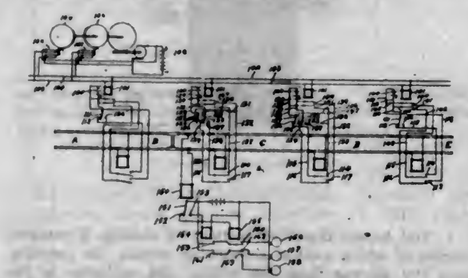
operating to connect energy at said points asynchronously, and signalling means for the stretch responsive to said en-



ergy and adapted to give different indications according to the number of points from which energy is transmitted thereto.

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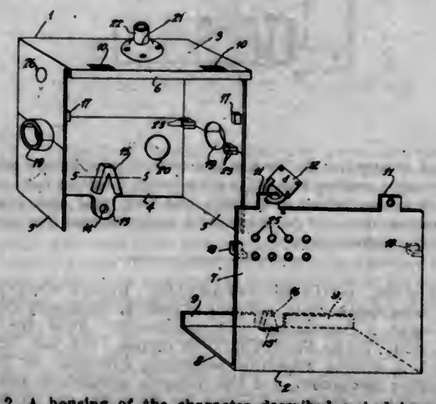
1,690,460. RAILWAY SIGNALING. EDWARD C. SASNETT, Washington, D. C. Filed Oct. 9, 1925. Serial No. 61,425. 9 Claims. (Cl. 246—59.)



1. A railway signaling system comprising a track divided into insulated blocks, track relays connected across the rails at the entrance ends of the blocks, local sources of direct current adapted to be connected across the rails at the exit ends of the blocks through connections controlled by said track relays, selective means operated from a central station controlling said connections for periodically reversing said connections, a vehicle traveling on the track having a polarized relay connected across the track rails and train governing mechanism controlled by said relay.

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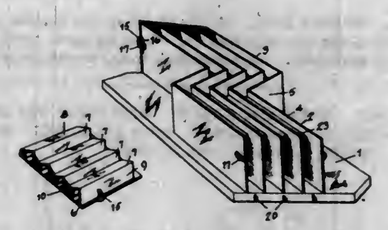
1,690,461. VALVE HOUSING. HENRY SIEBEN, New York, N. Y. Filed May 9, 1927. Serial No. 189,865. 5 Claims. (Cl. 137—111.)



2. A housing of the character described embodying an open box provided with openings in its walls and comprising a plurality of sections separable through at least two of said openings, a cover provided with extensions adapted to project through cooperating openings in the box when the cover is in closed position, an extension on the box adapted to extend through an opening in the cover when said cover is in closed position, and means for securing the extensions of the box and cover against withdrawal through the associated openings to lock the cover in place.

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1,690,462. MOLD FOR CONCRETE BLOCKS. DAVID C. SMITH, Toledo, Ohio, assignor, by mesne assignments, to Kadow Foundation, Incorporated, Toledo, Ohio, a Corporation of Delaware. Filed Feb. 15, 1927. Serial No. 168,320. 2 Claims. (Cl. 25—121.)



1. In a mold for cement blocks, a plurality of frames, each frame formed of three connected parts, two of the parts extending at an angle to and from the ends of the third part and forming end parts of the frame, a base for supporting the frames on their edges, the corresponding parts of the frames being located in substantially parallel relation, end plates having ridges for spacing the frames, means for removably connecting the end plates to the frames, the faces of the end parts of the frames having projecting parts for shaping the faces of the blocks.

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1,690,463. MARINE PROPULSION AND POWER GENERATOR. GOTTLOB J. STRADINGER, Colburn, Wis. Filed Apr. 4, 1927. Serial No. 180,868. 3 Claims. (Cl. 115—64.)



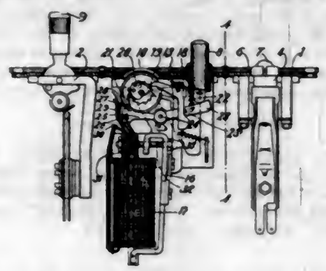
1. A marine propulsion comprising a vessel, a master shaft journalled thereon, guides mounted thereon, bearings slidably mounted between the guides, a counter shaft journalled in the bearings, chains trained around the shafts, blades carried by the chains, and a lever pivoted upon the vessel and engaging the counter shaft for moving the same along the guides.

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1,690,464. TELEPHONE-METER UNIT. GEORG TAUCHMANN, Berlin-Schoneberg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Filed Apr. 3, 1926, Serial No. 99,444, and in Germany June 4, 1925. 3 Claims. (Cl. 235—144.)

1. In a meter unit having an operating mechanism for the counting discs, consisting of a ratchet wheel and normally engaged operating and holding pawls, a restoring

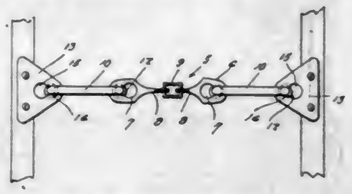
mechanism consisting of a cam and a restoring lever, said lever pivoted at a central point and having a pin on each



side of the pivot point, one pin engaging the holding pawl and the other pin engaging the operating pawl when the lever is operated, to disengage both from the ratchet wheel.

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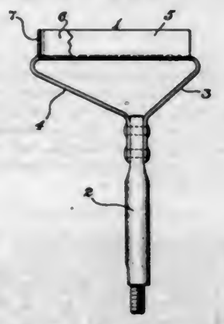
1,690,465. BED-RAIL BRACE. OTTO WARD and JOHN COMPTON, Binghamton, N. Y. Filed Apr. 5, 1927. Serial No. 181,109. 1 Claim. (Cl. 5—305.)



In a structure of the class described, a pair of attaching plates of duplicate form adapted to be fastened to the under edges of a pair of bed rails, said plates having projecting portions provided with keyhole slots, a turnbuckle comprising a pair of duplicate members including flat heads having keyhole slots, and screw threaded shanks, together with a connecting link between said shanks, and a pair of connecting rods of duplicate form provided at opposite ends with laterally directed portions equipped with heads adapted to be separably connected to said keyhole slots in said turnbuckle members as well as the keyhole slots in said attaching plates.

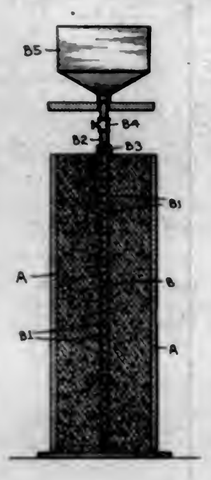
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1,690,466. BUCKET FOR USE IN HARDENING FURNACES. JOHN M. WASHBURN, Hartford, Conn., assignor to The Merrow Machine Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 19, 1925. Serial No. 76,396. 5 Claims. (Cl. 198—152.)



1. A bucket of the class described comprising an integral piece of sheet metal having upright and depending flange sections with the latter converging toward a point of remote support.

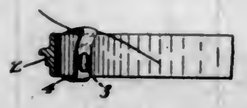
1,690,467. METHOD OF AND APPARATUS FOR MOLDING AND CURING CONCRETE. MARVIN S. WEAVER, Southern Pines, N. C. Filed Nov. 9, 1925. Serial No. 68,023. 9 Claims. (Cl. 25—155.)



1. The herein described method of making a concrete structure, which method consists in mixing the constituents and placing them for setting and enclosing in the mass thus formed means for receiving and delivering water into the interior of said mass, and placing water under pressure into said mass, said pressure exceeding gravity pressure due to height of water in said mass, whereby water permeates outward through said mass, substantially as described.

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1,690,468. TWISTER TRAVELER. PHILIP C. WENTWORTH, Providence, R. I. Filed July 21, 1926. Serial No. 123,872. 1 Claim. (Cl. 118—61.)

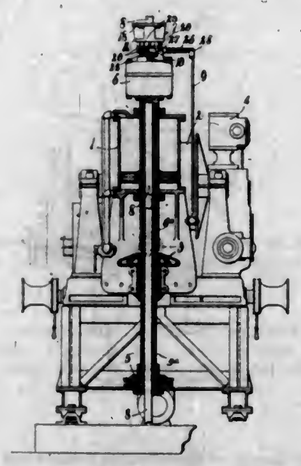


A twister traveler for use on a vertical twisting ring comprising a member presenting a top flange, a bottom foot, and a back connecting said flange and foot, said back being pressed out to provide a lubricant pocket terminating short of the traveler foot.

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1,690,469. DRILLING APPARATUS. EUGENE WHINNEN, Long Beach, Calif., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 3, 1924. Serial No. 703,957. 39 Claims. (Cl. 255—22.)

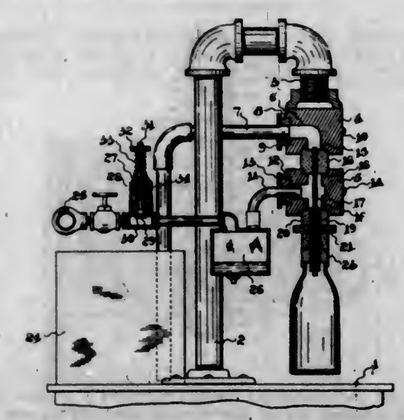
1. A drilling apparatus comprising hydraulic rod line feeding mechanism, rod line rotating mechanism, and a plurality of chuck mechanisms for connecting the rod line in driving relation with said feeding and rotating mechanisms, one of said chuck mechanisms being connectible to and rotatable with the rod line, and operating means for substantially instantaneously connecting or disconnecting



said last mentioned chuck mechanism at will, said operating means being operative to disconnect said chuck mechanism from the rod line during rotation thereof.

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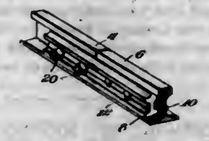
1,690,470. BOTTLE-FILLING DEVICE. GILFORD D. BLY, Toronto, Ontario, Canada. Filed Feb. 11, 1927. Serial No. 167,452. 5 Claims. (Cl. 226—116.)



1. A filler head for bottle filling apparatus comprising two blocks aligned with one another, each having a space for fluid formed therein, aligned openings communicating with such spaces being formed in two sides of one block and the adjacent side of the other; a pipe for fluid connected with each block and communicating with the space therein; a fluid tube extending through the openings and space of one block and into the interior space of the other through the opening therein; an annular elastic gasket fitted between the blocks and through which the tube passes; means for clamping the blocks to compress the elastic gasket to form a fluid tight joint between the gasket and the tube and the block; and a tube connected with the second opening of the first mentioned block surrounding the first mentioned tube, one of the tubes being longer than the other.



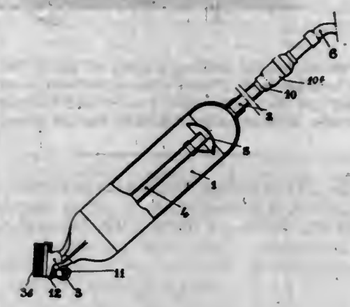
1,690,471. SPLICE BAR. CHARLES W. BREED, Western Springs, Ill. Filed Feb. 2, 1928. Serial No. 251,254. 6 Claims. (Cl. 238—243.)



1. An unsymmetrical splice bar having the portions above and below the horizontal neutral axis of substantially equal section modulus and the portions to the right and left of the vertical neutral axis of substantially equal section modulus.

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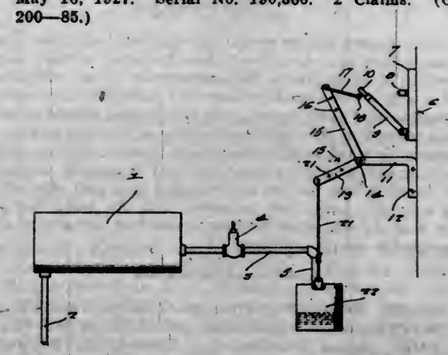
1,690,472. CLEANING MEANS. PAUL BRETON, Bellevue, France. Filed Dec. 22, 1925, Serial No. 76,951, and in France Dec. 31, 1924. 2 Claims. (Cl. 15—10.)



1. A vacuum cleaning apparatus comprising in combination a collecting chamber having curved walls, a suction nozzle communicating with said chamber so as to discharge fluids substantially tangentially to a wall thereof and above the level of the bottom of said chamber, an aspirating conduit making connection substantially tangentially with a wall of said chamber and adjacent the bottom thereof, said conduit being constricted at the point where it communicates with the chamber, and means for applying suction to said aspirating conduit.

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1,690,473. OPERATING MECHANISM FOR CIRCUIT CONTROLLERS. PAUL BROWN, Herndon, Kans. Filed May 10, 1927. Serial No. 190,366. 2 Claims. (Cl. 200—85.)

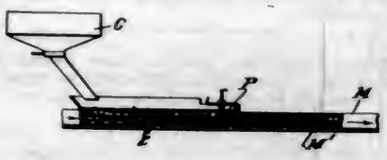


1. A circuit maker and breaker of the class described comprising a stationary contact, a vertically swinging contact for cooperation with the stationary contact, a bracket

supported below the contacts, a substantially L-shaped lever pivoted at its bend on the bracket, an operative connection between the upper end of the vertically extending arm of the L-shaped lever and the movable contact, and a weight associated with the outer end of the horizontally extending arm of the L-shaped lever for effecting the actuation of the lever to move the vertically swinging contact out-of engagement with the stationary contact.

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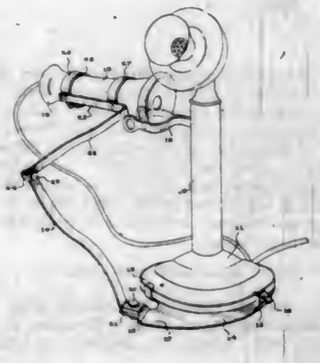
1,690,474. METHOD OF MAKING REENFORCED BLOCKS. LOUIS WILLIAM CAFFERATA, Newark-on-Trent, England. Filed June 15, 1925. Serial No. 37,177. 2 Claims. (Cl. 25—154.)



1. The method of making plaster of Paris blocks, consisting in placing in a mold a buoyant reenforcement and in filling the mold with fluid plaster and keeping the reenforcement submerged until held by the set of the plaster.

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1,690,475. TELEPHONE-RECEIVER SUPPORT. CLARK H. CARMER, Williamsville, N. Y. Filed May 15, 1925. Serial No. 30,554. 1 Claim. (Cl. 179—147.)

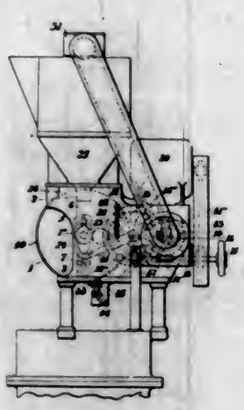


In a support for the receiver of a portable telephone, the combination of a sheet metal base including a main body portion of substantially the configuration of the telephone base, and a foot extending forwardly from and in the same plane as said body portion, said foot having its end raised and offset from the main body portion of the base, and in a horizontal plane parallel thereto, an upright receiver supporting arm having its lower end bent in angular relation to the main body portion and engaging upon said offset end of said foot, and a bolt extending thru the lower end of the arm and said offset portion of said foot, adjustably securing the arm to said base.
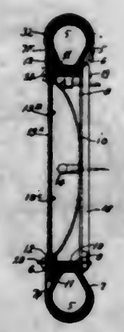
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1,690,476. APPLIANCE FOR DELIVERING GRANULAR MATERIAL IN MEASURED QUANTITIES BY VOLUME. EJNAR CHRISTIANSEN, Birmingham, England. Filed June 17, 1927, Serial No. 199,557, and in Great Britain June 28, 1926. 11 Claims. (Cl. 221—102.)

1. A machine for delivering granular material in measured quantities by volume, comprising a rotating member having recesses in diametrically opposite sides, pistons forming the bottoms of the recesses, and a link which is located on the outside of the rotatable member and which adjustably connects opposite pistons to vary the capacity of the recesses.



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1,690,477. DISPLAY DEVICE. DAVID R. COLLINS, Minneapolis, Minn., assignor of one-half to Ray E. Bartholdi, Chicago, Ill. Filed Mar. 25, 1927. Serial No. 178,262. 6 Claims. (Cl. 40—129.)

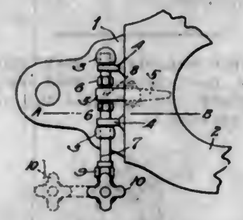


1. An electric display device comprising a circular concaved reflector, a ring disc formed integrally at and extending from the perimeter of said reflector, lighting means fixed in said reflector, a clamp ring corresponding to the ring extension of the reflector, an illuminable display element clamped between said two rings in spaced relation to said lighting means, said display element comprising an outer transparent disc, a like inner disc, a display plate between said transparent discs and carrying illuminable areas of suitable colors visible in daytime and illuminable in the dark.

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1,690,478. SANITARY FIXTURE. RAYMOND E. CRANE, Kittanning, Pa. Filed Aug. 17, 1927. Serial No. 213,666. 8 Claims. (Cl. 4—7.)

1. A sanitary fixture having a seat shelf and basin and being provided with a seat, a hinge by which said seat is attached to said fixture, a discharge nozzle extending forwardly from the seat shelf of the fixture toward the basin thereof, means for connecting the nozzle to swing the same in an upwardly direction so that it will not interfere with the proper cleansing of the fixture, and means for supplying water to said forwardly extending nozzle.



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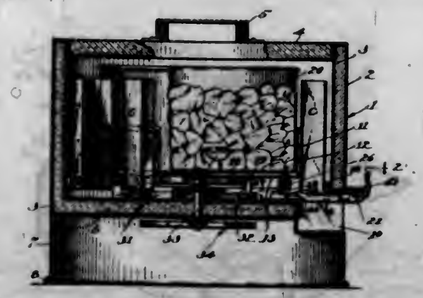
1,690,479. CONTAINER WITH COVER-LIFTING AUXILIARIES. CHARLES J. I. DEVLIN, San Francisco, Calif. Filed Mar. 19, 1928. Serial No. 262,846. 5 Claims. (Cl. 220—60.)



1. A container comprising a cap, a holder normally received within said cap, and means carried by said cap for spacing said holder above a supporting surface, said means providing access to said holder for permitting said holder to be moved toward the supporting surface.

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1,690,480. SANITARY BUTTER-SLICING MACHINE. JAMES S. DONNELLAN, Los Angeles, Calif. Filed Nov. 22, 1926. Serial No. 149,932. 10 Claims. (Cl. 31—21.)



2. In a butter slicing machine, a container, a cover therefor, said container having an opening in the bottom thereof, a tray removably and rotatably mounted in said container, a pan adapted to contain ice in said tray, a ratchet and pawl mechanism adapted to rotate said tray, means comprising a handle adapted to operate said mechanism, a plurality of open ended, tubular, spaced storage compartments mounted in circumferential marginal relation on said tray, each of said compartments being adapted to house a bar of butter, a butter supporting member resiliently mounted on each of said compartments and having an inwardly extending ledge extending partially across an open end of said compartments, a lug on said member, a cam member adjacent said opening in the container, said lug being adapted to engage said cam member whereby said ledge may be withdrawn from its position across the tubular compartment, said compartments being adapted to be brought into alignment with the opening of said container, a slidable tray disposed over said opening, said second mentioned tray comprising a wedge-shaped ledge and a rectangular ledge, said ledges being adapted to be disposed over said opening, a cutter comprising a thin wire disposed between said ledges, means for reciprocating said tray whereby when one of said ledges is withdrawn, said other ledge will be disposed over the opening, and when said other ledge is withdrawn, the cutter will slice the butter in one of said compartments and said first mentioned ledge will resume its position over said opening beneath the butter, means comprising a resilient member for removing a portion of the butter thus cut from said other ledge and allowing the same to pass through said opening, and a pocket beneath said opening adapted to receive a slice of butter thus cut.

10. A cutter for butter slicing machines comprising in combination a strap, a tray slidable in said strap, a pair of butter supporting ledges on said tray, a cutter comprising a piece of thin wire disposed between said ledges, a strip on said strap, and an ejector attached to said strip.

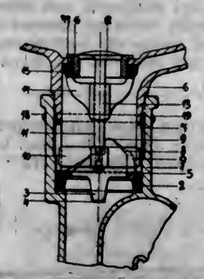
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1,690,481. DYEING, PRINTING, OR STENCILING OF ACETYL CELLULOSE OR PRODUCTS MADE THEREWITH. GEORGE HOLLAND ELLIS and WILLIAM OAKLAND GOLDTHORPE, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Aug. 6, 1925, Serial No. 48,666, and in Great Britain Aug. 14, 1924. 29 Claims. (Cl. 8—5.)

1. A process for the dyeing of materials comprising cellulose acetate which comprises treating said materials with relatively water insoluble organic compounds capable of coloring cellulose acetate, said organic compounds being employed in the form of solubilized modifications obtained by pretreating them with a solubilizing agent comprising a body of oily or fatty characteristics and with at least one auxiliary solvent.

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1,690,482. BASIN. CARL FRIEDRICH, Lauchhammer, Germany, assignor to Mitteldeutsche Stahlwerke Aktiengesellschaft, Lauchhammer, Germany. Filed May 28, 1928, Serial No. 281,326, and in Germany Mar. 9, 1927. 4 Claims. (Cl. 4—166.)



1. A basin comprising in combination an exit tube, a basin rotatably connected to said tube, an up and down movable valve for opening and closing the outlet of said basin, and a cam adapted to raise and lower said valve by rotation of said basin.

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1,690,483. METHOD OF FINISHING FLAT POWDER PUFFS AND IMPROVED PUFF. CAMILLE HENRI FUCHS, New York, N. Y., assignor to The Maurice Levy Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 20, 1926. Serial No. 149,629. 2 Claims. (Cl. 132—78.5.)

1. The method of finishing a flat powder puff having threads forming loop-like stitches at the periphery thereof, said stitches terminating in three threads hanging

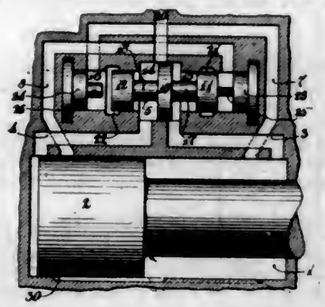
from the bottom face of the puff and a thread hanging from the top face of the puff, which consists in pulling said top thread through the edge of the puff so that each



of the before mentioned four threads hang from the bottom face of the puff, and then causing free ends of said four threads to engage some of said stitches at the bottom face of the puff.

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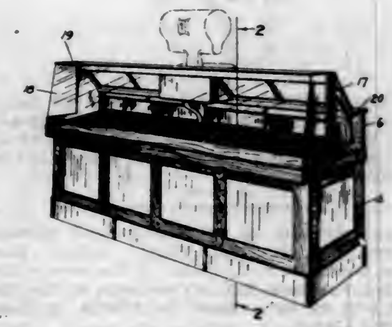
1,690,484. MOTOR. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 30, 1920. Serial No. 355,149. 20 Claims. (Cl. 121—28.)



1. A fluid pressure percussive motor comprising a cylinder, a piston therein, a valve chest having differential bores, a three-spool valve therein having an enlarged central spool and end spools of equal diameters, live fluid distribution passages leading to the ends of the cylinder controlled by said central spool, fluid exhaust passages leading to the cylinder at points separated from the ends thereof controlled by said end spools, means for substantially balancing the unbalanced force produced by the action of live fluid upon said middle spool prior to the moment when throwing pressure is transmitted to the valve, and means for entirely overcoming said unbalanced force for throwing the valve.

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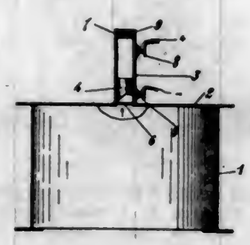
1,690,485. REFRIGERATING SHOWCASE. MICHAEL J. GOALSTONE, Denver, Colo. Filed Mar. 9, 1925. Serial No. 14,099. 3 Claims. (Cl. 312—114.)



1. A refrigerator showcase comprising a glass enclosed display compartment of tapering formation, and a tapering insert conforming to the configuration of the adjacent portions of the display compartment and arranged within the contour thereof and extending inwardly from the rear of the same in spaced relation to the floor thereof and open at the top and back to provide an exteriorly open space for a weighing scale.

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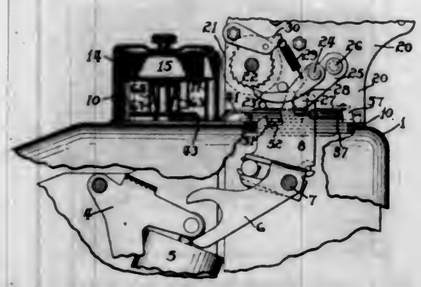
1,690,486. DEVICE FOR GIVING WARNING OF FIRE. EDMOND HALF, Paris, France. Filed Sept. 18, 1924, Serial No. 738,432, and in France May 10, 1924. 2 Claims. (Cl. 200—140.)



1. In a switch adapted to be operated by a sudden rise of temperature, the combination of a reservoir for air having walls with a high coefficient of thermal conductivity, a tube forming a cylinder in connection with the said reservoir, a slidable plug loosely mounted in the said cylinder, and having its lower end bevelled, means for retaining the plug in the said cylinder, means above the said plug for allowing air to escape to the outside, and contacts adapted to be operated when the plug is moved, substantially as described.

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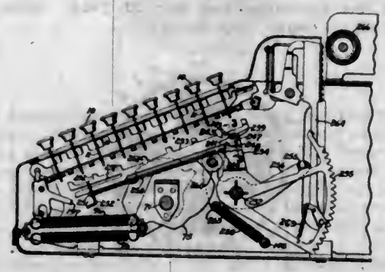
1,690,487. ATTACHMENT FOR CALCULATING MACHINES. ALLEN A. HORTON, Plymouth, Mich., assignor to Burroughs Adding Machine Company, a Corporation of Michigan. Filed Dec. 21, 1925. Serial No. 76,912. 13 Claims. (Cl. 197—151.)



1. In combination, a calculating machine having an enclosing casing, an operating means including a member projecting through the casing, a printing mechanism including type bars positioned to move to printing position through an opening in the casing, and an independent self-contained paper and ribbon unit detachably secured to the outside of the casing, said unit including a platen operatively positioned relative to the type bars, operating means for the platen, ribbon spools supporting a type ribbon, and an operating means for the ribbon spools, said operating means for the platen and ribbon spools having portions which are operatively positioned relative to the member projecting through the casing when the paper and ribbon unit is mounted on the casing.



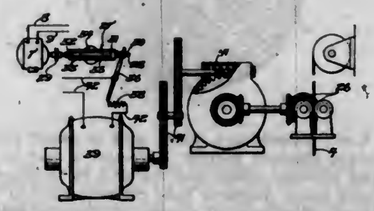
1,690,488. CUSHIONING MECHANISM FOR CALCULATING MACHINES. ALLEN A. HORTON, Plymouth, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Original application filed Jan. 29, 1926, Serial No. 84,616. Divided and this application filed July 8, 1926. Serial No. 121,070. 17 Claims. (Cl. 101—93.)



1. The combination in a calculating machine of a member adapted to be moved and suddenly stopped, a second member connected to the first by a pin and slot connection, a pivoted connecting piece between said members normally urged in one direction by a spring, said connecting piece being connected to the two members so that, as the first member is stopped, movement of the second member relative to the first will turn the connecting piece about the pivot against the action of the spring, said connecting piece also engaging the first member to counterbalance a portion of the weight of the said member.

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1,690,489. AUTOMATIC CONTROL DEVICE FOR ELECTRIC-ARC WELDING APPARATUS. WALTER REGINALD HUME, Melbourne, Australia. Original application filed Sept. 21, 1925, Serial No. 57,744, and in Australia Oct. 9, 1924. Divided and this application filed Dec. 22, 1927. Serial No. 241,021. 5 Claims. (Cl. 219—8.)



1. In electric arc welding apparatus the combination of an electric motor connected into the welding circuit, a centrifugal governor operated by said motor, an electrode feeding mechanism, a second electric motor adapted to drive said feeding mechanism, means for regulating the supply of current to the last named motor, and means interposed between said governor and said regulating means for communicating to the latter the movements produced by the governor in accordance with fluctuations in the current passing through the first named motor, for the purpose specified.

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1,690,490. AUTOMOBILE CHASSIS-LUBRICATING SYSTEM. GUS A. JAMERSON, Cincinnati, Ohio, assignor to Max Stern, Cincinnati, Ohio. Filed Feb. 6, 1924. Serial No. 690,940. 5 Claims. (Cl. 184—7.)

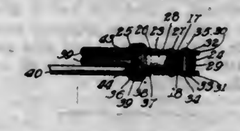
1. A lubricator of the character described comprising a tubular body having a circumferential groove in its outer surface and a hole connecting said groove with the bore of said body, a collar mounted on said body, said collar being constructed for the connection thereto of a supply tube and having a hole therethrough providing communi-



cation between said tube and said groove, means for holding said collar in its operative position on said body, and adjustable means adjacent said collar for regulating the flow of lubricant through said body.

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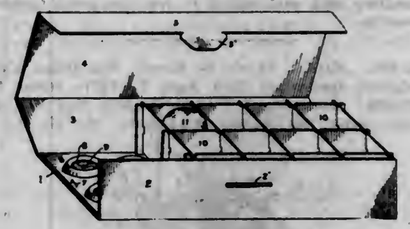
1,690,491. PORTABLE ELECTRIC LAMP. GEORGE C. KNAUFF, Chicago, Ill. Filed June 6, 1927. Serial No. 196,717. 7 Claims. (Cl. 240—52.)



1. In a portable electric light fixture, the combination of a light socket, a clamp for holding the fixture, a clip secured to said light socket, said clip being provided with a pair of legs, spring mechanism intermediate said clip and clamp, said spring mechanism comprising a pin pivotally connected at one end in substantially parallel relation with said legs and secured at its other end to said clamp, and a spring on said pin pressing at one end against said clamp and at its other end against the edges of said legs.

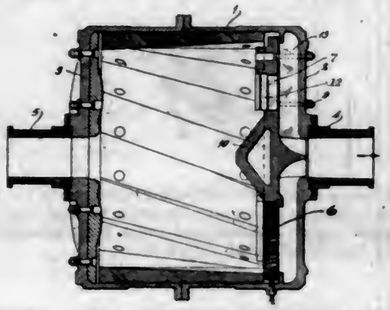
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1,690,492. EGG CARRIER. MORRIS KOPPELMAN, Brooklyn, N. Y., and WINFIELD H. MAPES, Glen Ridge, N. J., assignors to Holed-Tite Packing, Inc., Wilmington, Del., a Corporation of Delaware, and Mapes Consolidated Manufacturing Company, Wilmington, Del., a Corporation of Delaware. Filed May 11, 1927. Serial No. 190,408. 5 Claims. (Cl. 229—29.)



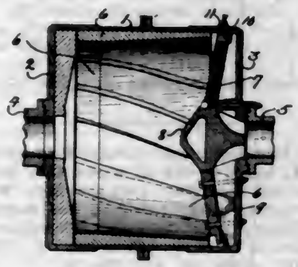
1. In a device of the character described, a sheet of material adapted to be folded and to form a receptacle for fragile articles having a plurality of sides on opposite sides of the said articles, holders for said articles on one side of the sheet consisting of relatively yielding material having inwardly extending unbroken protuberances of the same material, said foldable sheet of material being relatively stiff and strong as compared with the material of the holders, said holders and foldable sheet being composed of separate pieces of material secured together.

1,690,493. MILL. FRANK E. MARCY, San Diego, Calif. Filed June 7, 1927. Serial No. 197,054. 35 Claims. (Cl. 83—9.)



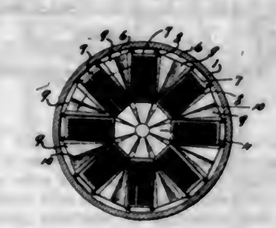
1. A mill comprising a rotatable drum or barrel adapted to receive a load of freely movable reducing bodies and material to be reduced, a feed end and a discharge end for said drum or barrel, a grate adjacent said discharge end, and load-deflecting means adjacent said grate and cooperating therewith for freeing the grate of oversize during rotation of the mill.

1,690,494. MILL. FRANK E. MARCY, San Diego, Calif. Original application filed June 7, 1927, Serial No. 197,054. Divided and this application filed Dec. 28, 1927. Serial No. 243,051. 11 Claims. (Cl. 83—9.)



1. A mill comprising a rotary drum or barrel, inclined grate members adjacent the discharge end, and a member cooperating with said grates to free the grate members of oversize.

1,690,495. MILL. FRANK E. MARCY, San Diego, Calif. Original application filed June 7, 1927, Serial No. 197,054. Divided and this application filed Dec. 28, 1927. Serial No. 243,052. 14 Claims. (Cl. 83—9.)



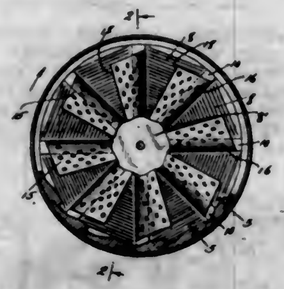
2. A mill comprising in combination a rotary drum or barrel, rectangular grate sections disposed radially of the mill drum adjacent the discharge end thereof, and members of triangular cross-section intermediate adjacent grate sections for clamping the grate sections in place, said clamping members being so disposed that the apices thereof project inwardly of the mill beyond the inner face of the grate sections.

1,690,496. MILL. FRANK E. MARCY, San Diego, Calif. Original applications filed June 7, 1927, Serial No. 197,054, and Dec. 28, 1927, Serial No. 243,052. Divided and this application filed Mar. 21, 1928. Serial No. 263,408. 7 Claims. (Cl. 83—9.)



1. A mill comprising in combination, a rotary drum or barrel, inclined grate sectors adjacent the discharge end of the mill, solid sectors intermediate the grate sectors, a substantially conical member about which said grate sectors and solid sectors are assembled, said solid sectors and said conical member cooperating with the grate sectors to free the grate of oversize.

1,690,497. MILL. CLARENCE G. WILLARD, Denver, Colo., assignor to The Mine and Smelter Supply Company, Denver, Colo., a Corporation of Colorado. Filed June 10, 1927. Serial No. 197,798. 4 Claims. (Cl. 83—9.)



1. A mill comprising a rotary drum or barrel providing a reducing chamber adapted to receive a load of freely movable reducing bodies and material to be reduced, a feed head and a discharge head for said drum or barrel, and means spaced from but adjacent each head of said drum or barrel for effecting lateral movement of the mill load while maintaining the length of the reducing chamber.

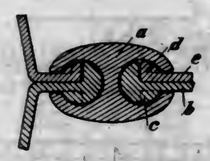
1,690,498. BRACELET EXTENSION DEVICE. NELS T. NELSON, Attleboro, Mass., assignor to J. F. Sturdy's Sons Company, Attleboro Falls, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1928. Serial No. 271,245. 7 Claims. (Cl. 24—71.)



1. An extension device comprising two sections hinged together at one end and adapted to be swung to an end-to-end extended position, a slide operatively mounted in one of said sections, longitudinally spaced means carried by said slide to adjustably receive the end of the strap.



1,690,499. CONNECTING PIECE FOR IRON SHEET PILING. KARL NOLTE, Dortmund, Germany. Filed Sept. 30, 1927, Serial No. 223,127, and in Germany Aug. 22, 1927. 1 Claim. (Cl. 61—60.)



In combination with sheet metal piling composed of sets of similar concavo-convex sections, the sections of one set having at each side edge oppositely extending flanges, and the sections of the other set having at their opposite side edges angular flanges extending in one direction, and shaped to fit between the flanges of a section of the first named set when the sections of the two sets are placed face to face with their concavities adjacent, and connecting pieces for connecting the sections of the first named set when arranged side by side in similar or opposite relation to form a sheet wall, and for connecting the sections of the second set to each other and to the sections of the first set when the sections of the two sets are arranged face to face with their concavities adjacent to form a wall of tubular portions, each connecting piece including a web to extend between adjacent edges of the sections, and provided at each side edge with oppositely extending means to engage outside the flanges of the sections.

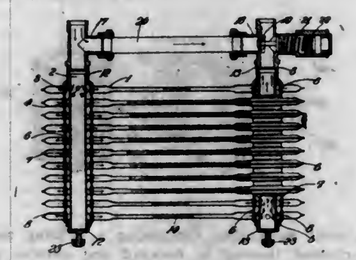
1,690,500. BATTERY TESTER. EDGAR G. PETERS, Cleveland, Ohio. Filed Sept. 12, 1927. Serial No. 218,989. 5 Claims. (Cl. 136—182.)



1. A device of the class described, comprising a plug adapted for application to a battery cell and having a cavity and a portion adapted to extend therebelow into the electrolyte of said cell, said portion having a well opening into said electrolyte and communicating with said cavity, means for inducing an electrolyte rise in said well to a predetermined elevation, a float in said well, a contactor carried by said float, a resistance arranged in said cavity for engagement by said contactor when said float is elevated by said electrolyte rise, and electrical connections arranged to include in a circuit portions of said resistance dependent upon the elevation of the contactor.

1,690,501. HEAT EXCHANGER. CHARLES HAROLD POTTS, Westminster, London, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Jan. 11, 1928, Serial No. 245,915, and in Great Britain Oct. 8, 1926. 11 Claims. (Cl. 257—245.)

1. A heat exchanger comprising a tier of hollow, shallow, thin metal elements having inlet holes at one end and outlet holes at the other end, an inner ring having radial holes inside each element at each end, an outer ring between the elements of each adjacent pair at each end, complementary annular projections and recesses at the adjacent faces of adjacent rings and engaging one wall of an element between them and means for locating



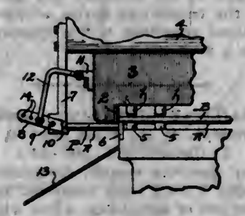
and clamping the parts in position and for providing a succession of annular spaces for enabling the fluid in the exchanger to pass through the elements in series.

1,690,502. OVERHEAD STEEL-PLATE-CONVEYER MECHANISM. GWYNNE RAYMOND, Kansas City, Mo., assignor to Black, Sivalls & Bryson Manufacturing Company, Kansas City, Mo., a Corporation of Delaware. Filed Aug. 1, 1927. Serial No. 209,802. 15 Claims. (Cl. 104—101.)



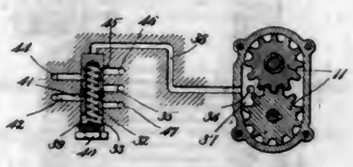
1. The combination of a main track, a branch track, a switch for connecting said main and branch tracks, a pair of inter-connected devices adapted to travel in tandem relation on said main track, and means actuated by said devices for operating said switch to guide one of said devices onto the branch track.

1,690,503. SHEARING MACHINE. ARVID RHODES, Chicago, Ill., assignor to The Railroad Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 22, 1927. Serial No. 207,627. 5 Claims. (Cl. 164—59.)



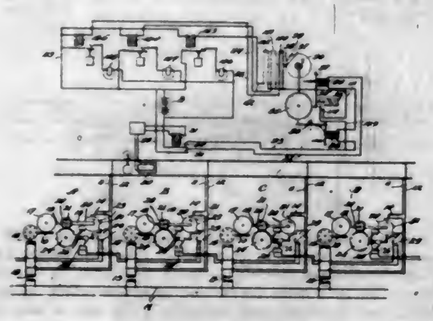
1. In a machine for shearing metal bars, the combination of a reciprocating head having a shear blade, a bar-support mounted on the machine beyond the leading end of the bar being sheared and movable into and out of position to engage and disengage said leading end of the bar, and connections between said support and head to actuate the support as the blade is operated.

1,690,504. DRILL MECHANISM. THORE R. E. RUNDQVIST, Claremont, N. H., ass'gnor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar 13, 1924. Serial No. 699,110. 19 Claims. (Cl. 121—5.)



1. A drill mechanism comprising a drilling motor, n steel actuated thereby, a forward and reverse positive feeding means therefor comprising but a single reversible pressure fluid actuated motor, an independent pressure fluid actuated rotation motor for said steel, and pressure fluid operated means responsive to the resistance to steel rotation for reversing said feeding means.

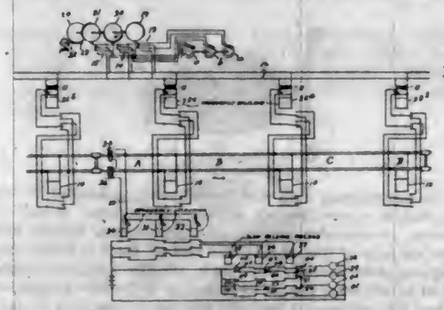
1,690,505. AUTOMATIC TRAIN-CONTROL SYSTEM. EDWARD C. SASNETT, Washington, D. C. Filed Aug. 7, 1925. Serial No. 48,746. 14 Claims. (Cl. 246—63.)



1. A railway signalling system including a stretch of track the rails of which are conductively continuous throughout, means for impressing impulses of alternating energy across the track rails at a plurality of spaced points, said means operating to impress impulses at said points asynchronously, a vehicle have a translating device responsive to the impulses, and governing means controlled by the translating device adapted to give different indications according to the number of impulses transmitted in a fixed time.

1,690,506. RAILWAY SIGNALING. EDWARD C. SASNETT, Washington, D. C. Filed Nov. 20, 1925. Serial No. 70,325. 21 Claims. (Cl. 246—34.)

1. A railway signaling system, comprising a track divided into blocks, a track relay connected across the rails at the entrance end of each block, a line wire, means at a central station for successively and periodically connecting sources of alternating current of different frequencies to said line wire, a selective relay for each block connected to said line wire, said relays being arranged in successive groups with relays of the same group responsive respectively to currents of different frequencies and corresponding relays of the several groups responsive to current of the same frequency, connections from the line wire to the exit ends of the blocks closed independently of the track relays when said selective relays are energized and closed through front contacts of the track relays when the selective relays are deenergized, and signaling mech-



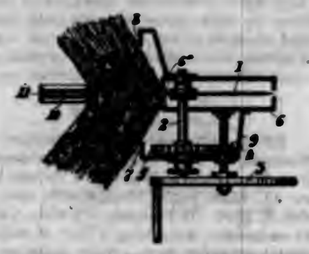
anism connected to the track rails selectively responsive to the frequencies of the currents flowing through the track rails.

1,690,507. TRAVELING BAG, SUITCASE, AND THE LIKE. BENJAMIN H. SHWAYDER, Denver, Colo. Filed Oct. 13, 1925. Serial No. 62,240. 1 Claim. (Cl. 190—54.)



In a bag or case of the character described, the combination with a flexible body part, of a frame structure comprising a channel member and a frame member, the channel member receiving the portions of the flexible body part at the sides of the opening defined by the frame, and a separate frame covering of flexible material arranged on the exterior of the channel member and covering the frame member and having both its marginal edge portions extended into the channel member and clamped in the channel member and located at opposite sides of the said portions of the flexible body part between the same and the sides of the channel member.

1,690,508. STRAW OR LIKE CUTTING MACHINE. JOSEPH STOKES, Trench, near Wellington, England. Filed June 6, 1927, Serial No. 196,751, and in Great Britain Sept. 30, 1926. 4 Claims. (Cl. 146—116.)

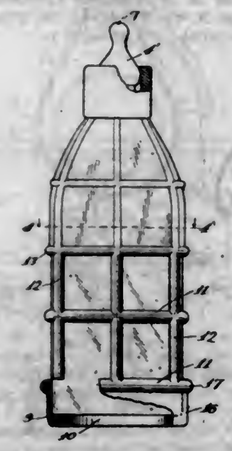


4. A machine for cross cutting bundles or boltings of straw, comprising a knife having a curved periphery mounted to rotate about an axis eccentric to the curved cutting



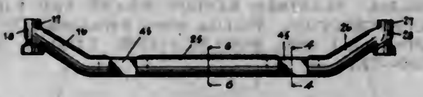
edge, relatively movable jaws for gripping the bundle of straw on each side of the cutter, and a frame on which the rotary cutter is mounted and having a slotted part behind which the cutter lies in the out of cutting position.

1,690,509. BOTTLE PROTECTOR. MARTIN L. THORESON and GRACE A. THORESON, Los Angeles, Calif. Filed Nov. 22, 1926. Serial No. 149,958. 5 Claims. (Cl. 215—11.)



1. The combination with a bottle having an open end an annular bead thereon of a nipple having an inturned annular flange adapted to encircle said bead, a protective covering having an annular reinforcing strip at its upper end extending for an appreciable distance above the upper end of the bottle to prevent fracture thereof, said strip being adapted to press the flange of said nipple directly against said annular bead.

1,690,510. AUTOMOBILE AXLE. BERTIS H. URSCHEL, Bowling Green, Ohio, assignor to Urschel Engineering Company, Bowling Green, Ohio, a Corporation of Ohio. Filed Oct. 5, 1927. Serial No. 224,136. 8 Claims. (Cl. 301—124.)



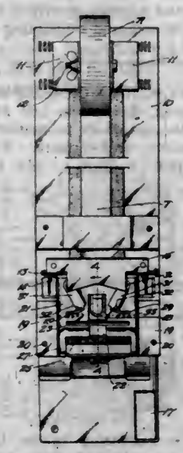
1. An axle for vehicles comprising a tubular member, the ends of the tubular member turned to extend substantially vertically and tubes fitting the interior of the said turned end portions of the tubular member and extending through the elbow formed at the junction of the main portion of the axle member and the substantially vertical ends.

1,690,511. AXLE FOR SELF-PROPELLED VEHICLES. BERTIS H. URSCHEL, Bowling Green, Ohio, assignor to Urschel Engineering Company, Bowling Green, Ohio, a Corporation of Ohio. Filed Mar. 7, 1928. Serial No. 259,798. 14 Claims. (Cl. 301—124.)



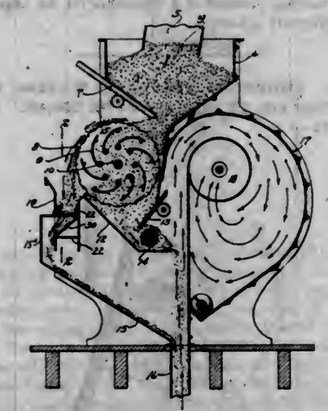
3. An axle for a vehicle comprising a tube having substantially rectangular end portions, bearing members extending through the end portions and the side walls of the ends bent around the outer sides of the bearing members.

1,690,512. GUMMED-TAPE-SERVING MACHINE. WILLIAM A. UTTZ, Sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex., a Corporation of Texas. Filed Nov. 25, 1927. Serial No. 235,671. 15 Claims. (Cl. 271—2.6.)



1. In a machine for dispensing gummed tape, a tape guide including a lower plate over which a tape travels, an upper plate spaced slightly above the lower plate and under which said tape travels, said upper plate having a pair of symmetrically disposed arcuate slots spaced evenly on opposite sides of the center line of movement of the tape, guide arms pivoted concentrically of the slots, and fingers projecting from the free ends of said arms through said slots and depending below the upper plate.

1,690,513. RECLAIMING ATTACHMENT FOR SCALPERS. JOHN J. VARUSKY, Minneapolis, Minn., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn., a Corporation of Minnesota. Filed Feb. 3, 1927. Serial No. 165,563. 2 Claims. (Cl. 209—234.)

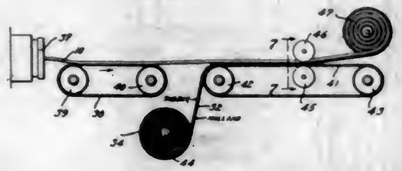


1. A scalping screen continuously movable in a definite direction and provided with openings much larger than required to freely pass therethrough all grains such as wheat, oats, barley and rye, whereby the body of commingled grain will pass freely through said scalping screen but large long objects such as straw, sticks, nails, leaves and pieces of paper will be carried over said scalping screen carrying

therewith a small amount of good grain, in combination with a reclaiming screen receiving the materials carried over by said scalping screen and having openings through which the grain can pass but through which the foreign objects such as straw, sticks, nails, leaves and pieces of paper cannot pass, whereby the grain is saved from the said coarse scalpings, and a grain receiving hopper common to said scalping screen and said reclaiming screen.

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1,690,514. MANUFACTURE OF RUBBER TIRE TREADS. HENRY A. WALTER, Barberton, and JESSE R. CROSSAN, Wadsworth, Ohio, assignors to Seiberling Rubber Company, a Corporation of Delaware. Filed Apr. 1, 1927. Serial No. 180,109. 8 Claims. (Cl. 154—2.)



7. A method for producing rubber tire treads, which consists in forming a relatively thin sheet of rubber in a calender, the sheet being equal in width to a plurality of treads laid side by side, running through the calender with said rubber sheet, a covering of holland of corresponding width, whereby to effect a firm surface union between the rubber and the holland, longitudinally slitting the united sheets into a plurality of tread base strips, forming a series of tread bodies of rubber with the desired cross sectional configuration, and uniting a tread body to the uncovered surface of each of the thin calendered sheets.

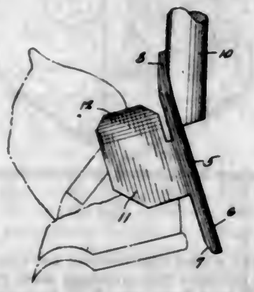
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1,690,515. COMPOSITION OF MATTER CONTAINING A CELLULOSE DERIVATIVE. HARRY M. WEBER, Montclair, N. J., assignor to Ellis-Foster Company, Montclair, N. J. Filed Oct. 13, 1925. Serial No. 62,293. 12 Claims. (Cl. 134—26.)

1. A composition of matter comprising a cellulose ester and the reaction product of a vegetable oil, an organic acid and a polyhydric alcohol.

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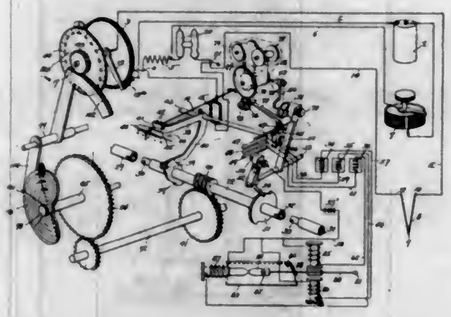
1,690,516. SHOEHORN. BARNEY C. WICKERS, Lebanon, Ind. Filed Feb. 10, 1928. Serial No. 253,462. 1 Claim. (Cl. 132—7.)



In a device of the character described, a body portion including a length of sheet metal having its side edges curved upwardly, flanges extending outwardly from the curved side edges of the body portion, the lower ends of the flanges extending inwardly to grip an overshoe to force the overshoe from its position on a shoe, the lower ends of the flanges being spaced from the lower end of the body portion to define a shoe horn, and the upper ends of the flanges being curved outwardly to define a guide.

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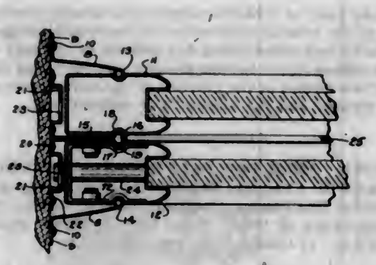
1,690,517. ELECTRICAL CONTROLLER AND RECORDER. CHARLES H. WILSON and CUTHBERT J. BROWN, North Pelham, N. Y. Filed Aug. 28, 1924. Serial No. 734,671. 19 Claims. (Cl. 234—11.)



1. In an electrical controller having a galvanometer and its boom and means providing an increasing and decreasing control for a thermic apparatus, the combination of means separate from but controlled by the galvanometer boom for selecting the controlling means to be energized, means for sending operating impulses to each of said controlling means, and means controlled by said selecting means for separately recording the duration of the increasing control and of the decreasing control.

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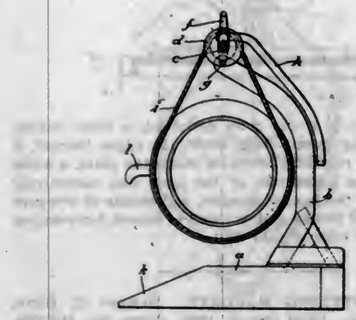
1,690,518. FLEXIBLE WINDOW FRAME AND SASH CONSTRUCTION. WILLIAM WOOP, Farmingdale, N. Y. Filed July 1, 1926. Serial No. 119,829. 7 Claims. (Cl. 189—72.)



1. In a window frame and sash construction, a longitudinally slidable sash member provided with a longitudinally extending groove in one of its lateral faces, a resilient guide member having a bead formed thereon for engagement with said groove, and means for engaging the opposite face of the sash member.



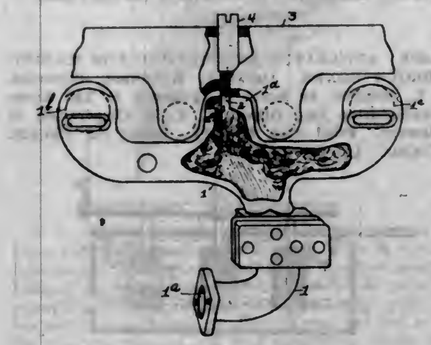
1,690,519. APPARATUS FOR LIFTING AND TAPPING BUTTS. ANDERS EDVARD ADOLFSSON, Korsnas, Sweden. Filed Sept. 15, 1924, Serial No. 737,902, and in Sweden Apr. 6, 1921. 1 Claim. (Cl. 248—52.)



In an apparatus for tapping butts, the combination of two closed bands, block sheaves supporting the bands, a shaft on which the sheaves are mounted, means for rotating the shaft to rotate the sheaves, bearings for the shaft having supporting parts eccentric to the shaft, a base, an upright secured to one end of the base and provided with means for pivotally supporting the bearings by their supporting parts, a lever secured to the bearings for rotating the shaft whereby a butt resting in the bands can be raised or lowered to or from a position on the base and whereby a butt can be raised to a first position on the base to facilitate the assembly of the bands therewith and to be further moved by the chains and lever mechanism to a tapping position.

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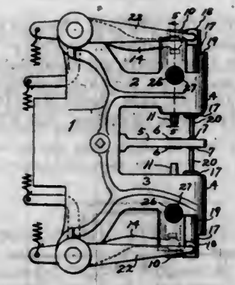
1,690,520. FUEL HEATER. IRVING E. ASKE, Duluth, Minn. Filed May 12, 1924. Serial No. 712,654. 1 Claim. (Cl. 257—241.)



The combination of a hydrocarbon fuel supply manifold having an intake port and a dome formed thereon approximately in axial alignment with said intake port, of a heat transmitting rod extending through the wall of said dome into the chamber within said dome, an exhaust manifold for products of combustion, and a heat transmitting rod adapted to contact with the first said rod and extending through the wall of said exhaust manifold into the passage for the products of combustion therein.

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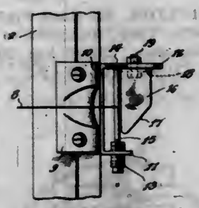
1,690,521. EYELETING MACHINE. JOSEPH W. BARNA and NATHAN A. THOMAS, Chicago, Ill. Original application filed Dec. 1, 1926, Serial No. 151,913. Divided and this application filed Jan. 20, 1928. Serial No. 248,062. 1 Claim. (Cl. 218—15.2.)



In a duplex eyeleting machine, a head having upper and lower bearing-blocks, guidways in the blocks having lateral discharge passages through the blocks on the same sides, reciprocating tubular punch-spindles in the guideways and having lateral orifices in register with said openings, and inclined guides at the outer ends of said orifices to discharge the punchings through the latter.

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1,690,522. SILK CLEANER. FRANK BAUMAN, Honesdale, Pa. Filed Aug. 17, 1927. Serial No. 213,674. 2 Claims. (Cl. 28—68.)



1. A thread cleaner comprising a substantially U-shaped frame having its ends of uneven length, one of the ends having an opening, a plug threaded into the opposite end, a hardened metal rod mounted at one end in said plug and at the opposite end in the opening formed in the end of the frame, a hardened metal plate having an edge arranged adjacent the rod and having an end portion bent and placed against the inner side of the long end of the frame and means for securing the plate to the frame.

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1,690,523. METHOD OF FORMING CLOSURES. WILLIAM M. BELL, Portsmouth, Ohio. Filed Sept. 26, 1927. Serial No. 222,157. 5 Claims. (Cl. 29—148.2.)

1. A method of forming a closure for sheet metal containers, consisting in providing a ring member from a

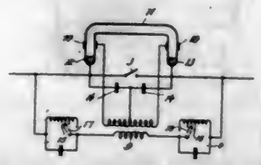
length of sheet metal, and simultaneously bending the circular member to define a short flange and a long flange, bending the long flange inwardly towards the short flange



defining a flange receiving space presenting a curved inner surface, and finally threading the inner surface of the short flange.

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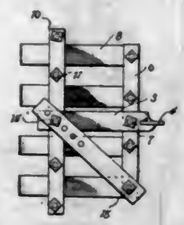
1,690,524. SWITCHING SYSTEM. RUDOLF G. BERTHOLD, Berlin-Siemensstadt, Germany, assignor to Siemens-schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed June 22, 1926, Serial No. 117,793, and in Germany June 27, 1925. 3 Claims. (Cl. 175—294.)



1. The combination of an electric circuit, a main switch in said circuit, an oscillatory circuit having an inductance and a capacity connected in parallel to each other, said circuit being connected in parallel relation to said main switch and adapted to take up the energy of said electric circuit to be broken, a gas discharge tube also connected in parallel relation to said main switch, ignition electrodes upon said gas discharge tubes, and electric connections adapted to excite said ignition electrodes from said oscillatory circuit.

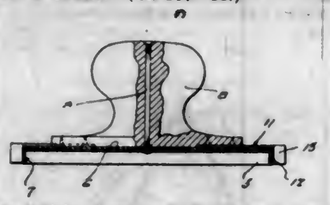
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1,690,525. CULTIVATOR. ED. BEST, Appleton, and LEWIS R. VINES, Loretto, Tenn., assignors to one-third to J. N. Guthrey, Tennessee. Filed Aug. 31, 1927. Serial No. 216,736. 2 Claims. (Cl. 97—8.)



1. An attachment for cultivators comprising an auxiliary beam, means for securing said beam to a cultivator beam, cross bars pivotally attached to the auxiliary beam, a plurality of ground-engaging elements each pivotally attached to the front cross bar and loosely freely supported by the rear cross bar, and a locking brace pivotally attached to the auxiliary beam adjacent the rear end thereof and pivoted to the front cross bar at one side of the auxiliary beam.

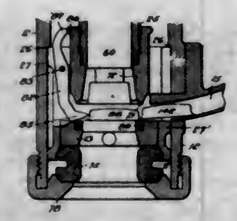
1,690,526. INDIVIDUAL CAKE MOLD. HENRY BILODEAU, Wilkes-Barre, Pa. Filed Oct. 26, 1927. Serial No. 228,789. 2 Claims. (Cl. 107—51.)



1. In an article of the class described, a plate having a wall extending downwardly about the edges thereof, a handle member rotatably mounted above the plate, a knife arranged at the under side of the plate and operatively connected with the handle member, and a pair of scrapers attached to said handle member and arranged for rotation about the outer edge of said wall.

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1,690,527. BOTTLING MACHINE. SAMUEL C. BOND, Hollyoak, Del. Filed Oct. 5, 1923, Serial No. 666,758. Renewed Apr. 1, 1927. 7 Claims. (Cl. 226—77.)

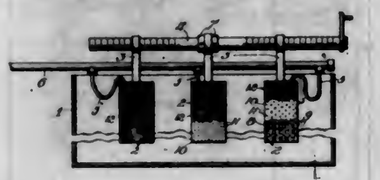


1. In a filler head, an axially movable valve casing, a sub-head movable with respect to said valve casing, a throat carried by said sub-head and movable within said valve casing, means within said valve casing to form a seal with said throat, and means operable upon movement of said throat into sealing engagement to form a seal about the neck of a bottle inserted within the filler head.

4. In a filler head, a hollow movable sub-head, a throat secured thereto, a pivoted cap stop, and means on said throat for rocking said pivoted cap stop for centering a bottle cap with respect to the axis of the filler head.

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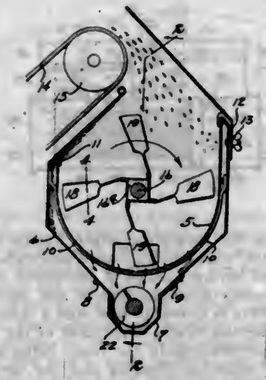
1,690,528. APPARATUS AND METHOD FOR MAKING FIBROUS BOXES. OSCAR P. BUSHNELL, Belleville, N. J., assignor, by mesne assignments, to The Arvey Manufacturing Co., Olean, N. Y., a Corporation of Delaware. Filed Aug. 4, 1924. Serial No. 730,123. 5 Claims. (Cl. 92—56.)



1. Apparatus for the making of battery containers, which comprises a tank for holding wood pulp in suspension, a plurality of formers on which the pulp may be deposited by suction, means by which suction may be applied to the formers to cause the pulp to be deposited thereon, and means for causing the formers to approach toward and recede from each other in a horizontal plane.



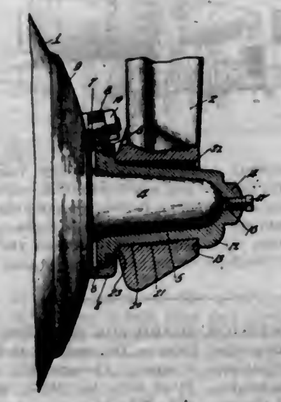
1,690,529. GRAIN SEPARATOR. CLARENCE W. CARTER, Minneapolis, Minn. Filed Jan. 27, 1927. Serial No. 164,004. 9 Claims. (Cl. 209—283.)



1. A separator of the kind described comprising a sieve and propelling means operative to propel the stock against the sieve with a to and fro movement in a circular path greater in one direction than in the other so that the stock is given a resultant progressive flow in a given direction.

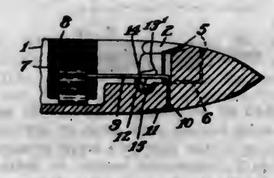
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1,690,530. QUICK-DETACHABLE DISK BEARING. HENRY P. CORBIN, Moline, Ill., assignor, by mesne assignments, to Moline Implement Company, a Corporation of Illinois. Filed Apr. 14, 1924. Serial No. 706,284. 5 Claims. (Cl. 308—19.)



1. A quick-detachable, agricultural-disk bearing having a cone-shaped member, a socket member in which the cone-shaped member is journalled for rotation, means for holding the socket member on the cone-shaped member but permitting relative rotation of the two, said socket member having a projected lug near its rear end and a shoulder near its forward end, and supporting means having an opening for receiveing the socket member, which opening is provided with a slot to receive the lug, said supporting means having a cam surface adjacent the rear end of its opening so that by passing the lug through the slot and turning the socket member, the cam surface will co-operate with the lug to cause it to force the shoulder into contact with the supporting means to thereby tighten and hold the socket member in the supporting means.

1,690,531. THREAD GUIDE FOR SHUTTLES AND THE LIKE. JEAN B. DAUDELIN, Fall River, Mass. Filed Oct. 18, 1926. Serial No. 142,235. 7 Claims. (Cl. 139—213.)



1. In a shuttle having a weft carrier and a delivery eye, a thread guide disposed between said weft carrier and eye and consisting of a plurality of spaced, flat turns disposed in broadside relation to each other and wound in a direction opposite to the unspooling action of the weft delivering from said weft carrier whereby the weft in unspooling will automatically work itself towards the center of the guide, said guide having a tensioning element around which the weft wraps itself as it enters said guide.

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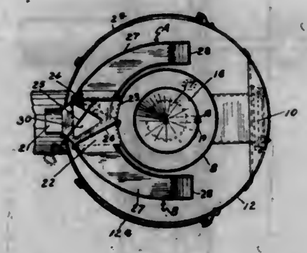
1,690,532. MINE-CAR BUMPER. GLENN E. EDMUNDS, Columbus, Ohio, assignor to The Bonney-Floyd Company, Columbus, Ohio, a Corporation of Ohio. Filed July 28, 1927. Serial No. 208,972. 8 Claims. (Cl. 213—220.)



3. An integral bumper casting for a car of the class described comprising a top web portion and integrally formed side wall brace portions extending upwardly above the plane of said top web portion adjacent the ends of the bumper, said brace portions being provided with means for attaching wall brackets.

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1,690,533. HEATER CONSTRUCTION. CARL F. EFRAMSON, Minneapolis, Minn. Filed Sept. 19, 1927. Serial No. 220,532. 4 Claims. (Cl. 126—99.)



1. The combination with a heating unit, of means for utilizing the heat of air and gases thrown off by the fire of the unit, comprising radiator forming flues extending laterally about the heating unit, and means for deflecting such air and gases from a direct line of draft and through said flues, said means comprising a stationary deflector and a movable damper acting deflector co-operating therewith.

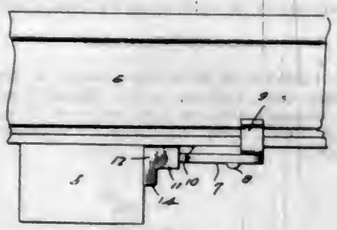
1,690,534. SELF-FLUXING SOLDER AND METHOD OF MAKING SAME. JOHN PEABODY ERICH, Chicago, Ill., assignor to Chicago Solder Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1926. Serial No. 152,398. 4 Claims. (Cl. 113—110.)



1. The method of preparing a flux cored solder tube, which consists in sealing said tube by compressing the walls of a section of the tube into metal-to-metal contact, and grooving such compressed section to deflect the longitudinal line of the flux core and the line of contact of said compressed walls.

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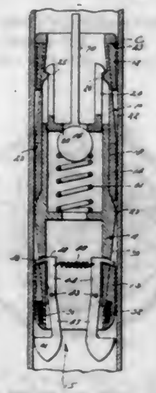
1,690,535. RAIL ANTICREEPER. PHILIP JEABOLD GILLEN, Nova, Ohio. Filed Jan. 25, 1928. Serial No. 249,402. 3 Claims. (Cl. 238—324.)



1. A device of the class described comprising a pair of members pivoted together intermediate their ends, one end of each member having a laterally disposed hook like jaw and the other end being disposed with a lateral rod extension, and a block with a pair of diagonal openings extending therethrough at an angle to each other for receiving the rod extensions.

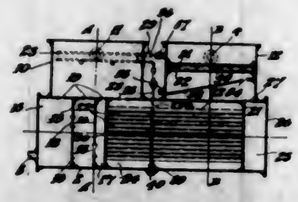
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1,690,536. PLUG FOR WELLS. STEPHEN I. HARTMAN, Santa Ana, Calif. Filed June 20, 1927. Serial No. 200,050. 5 Claims. (Cl. 166—13.)



1. A well plug including a body, slip means for holding the body against movement in one direction, slip means for holding the body against movement in the other direction, and means for releasably holding one of the slip means inoperative including a pivotally mounted latch member engaging the said slip means, the mounting of the latch being independent of the slip means.

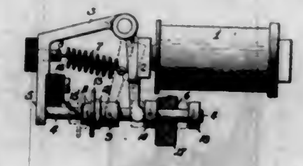
1,690,537. SEPARATION OF LIQUIDS. HENRY SELBY HELE-SHAW and ALBERT BEALE, London, England. Filed July 19, 1926, Serial No. 123,449, and in Great Britain July 22, 1925. 7 Claims. (Cl. 210—43.)



1. Apparatus for separating mixed liquids of different specific gravities, comprising a vessel perforated along its top portion and having a series of perforated vertical partitions transversely arranged therein and through which the liquid mixture is caused to flow, and a colecting chamber for receiving the lighter constituent of the liquid mixture, the top perforations in the vessel being arranged to open into the collecting chamber and the vertical partitions arranged between the top perforations, the vessel being provided at one end with an inlet for the liquid mixture and an outlet at the opposite end for the heavier constituent of the mixture.

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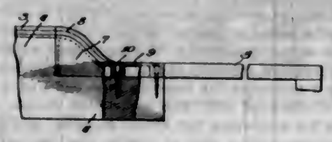
1,690,538. MAKE-AND-BREAK DEVICE. FRANK R. HOUSE, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 11, 1920. Serial No. 430,050. 8 Claims. (Cl. 200—87.)



1. An electrical make-and-break device comprising a freely rotatable contact and a non-rotatable contact, means for moving one of said contacts linearly and axially toward and away from the other contact, said contacts being so constructed that upon engagement between the same, rotation of said rotatable contact is caused by said stationary contact.

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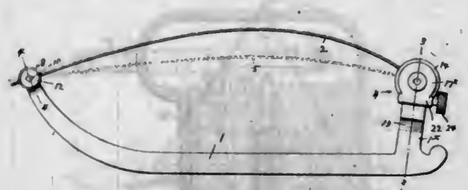
1,690,539. DIVISION GUARD FOR BOWLING ALLEYS. ROBERT E. KENNEDY, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 15, 1927. Serial No. 226,489. 3 Claims. (Cl. 273—54.)



1. In combination with a bowling alley, a gutter, a division running parallel to said gutter, and a terminal member at the forward end of said division composed of more resistant material than said division and constituting a protecting guard.



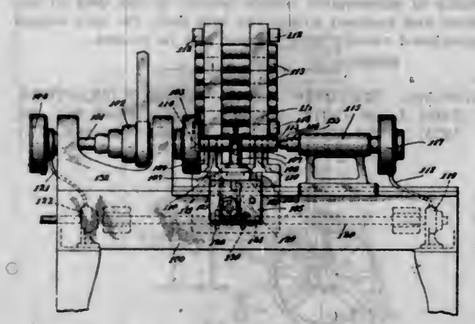
1,690,540. UNIVERSAL CURVE DEVICE. NORMAN E. KLEIN, Medford, Oreg. Filed Oct. 21, 1927. Serial No. 227,754. 8 Claims. (Cl. 33—177.)



1. A device or instrument for the purpose described, comprising a frame, a resilient bendable element, means on the frame for holding said element at one end thereof against lengthwise movement, and element bending means carried by the frame and including a worm gear, turnable in the direction of the length of said element, means for fastening the bendable element to the worm gear, and disposed to cause arching of the bendable elements on turning of the worm gear and a worm meshed with said worm gear and adapted to adjust and hold the latter against casual rotation.

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1,690,541. FLUID OR AIR CONTROLLING AND OPERATING DEVICE FOR MACHINE TOOLS OR THE LIKE. ADALBERT R. KUZELEWSKI, New York, N. Y., assignor of one-half to Marburg Brothers, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1924. Serial No. 703,834. 12 Claims. (Cl. 82—2.)

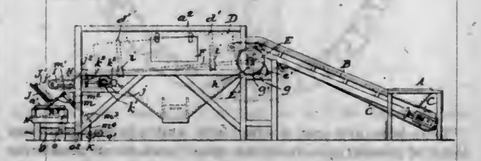


1. In a machine tool or the like, a fluid control device consisting of a casing, a fluid inlet and relief for said casing, two valves being mounted movably within said casing, the said valves respectively controlling and timing said fluid inlet and relief, means for adjusting each of the said valves and for locking the said valves in different relative positions, whereby the timing of the said valves may be adjusted independently as desired, substantially as and for the purpose set forth and explained.

12. In a machine for automatically producing a work piece, a source of fluid being under a greater or lesser than atmospheric pressure, one or more fluid operated devices, one or more fluid control devices, one or more valves arranged rotatively within said control device or devices, one or more mechanisms for successively gripping and releasing said piece or pieces, means being provided, including said fluid and said control device or devices, for automatically operating said fluid operated device or devices the latter in turn operating said mechanism or mechanisms, one or more cams or the like, a shaft revolving only in one direction during a complete working cycle, said valve or valves and said cam or cams being mounted on said shaft revolving with the latter, one or more tool slides, said cam or cams respectively operating said slide or slides, substantially as and for the purpose set forth and explained, and means for adjusting the timing of said valve or valves in relation to said cam or cams, as desired.

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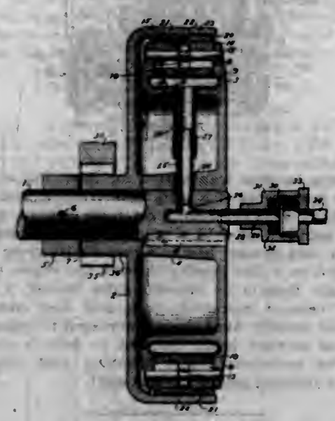
1,690,542. DISCHARGE LOADING MEANS FOR TILE-CLEANING MACHINES. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Eucaustic Tiling Company, Ltd., New York, N. Y., a Corporation of New York. Original application filed July 27, 1921, Serial No. 487,854. Divided and this application filed Apr. 16, 1925. Serial No. 23,594. 3 Claims. (Cl. 226—16.)



1. In a tile cleaning machine, a delivery mechanism for cleaned tiles embodying a delivery conveyor positioned in loading relation to tile cleaning means, whereby tiles from said cleaning means are deposited upon said delivery conveyor and are free to spread over the surface of said conveyor, a pivoted carrier hung below the delivery end of said conveyor for movement relatively to said conveyor, said carrier having a roller bed for supporting a separate receptacle in loading relation to the delivery conveyor, means for balancing said pivoted carrier and the load imposed progressively thereon by the action of the delivery conveyor in feeding cleaned tiles to the receptacle, and offbearing conveying means positioned for receiving the loaded receptacle upon the depression of the pivoted carrier to substantially the plane of said offbearing conveying means.

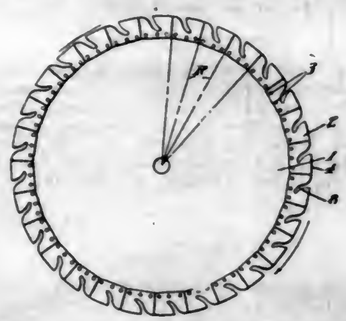
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1,690,543. FLUID-PRESSURE-OPERATED DEVICE. BERT A. LINDERMAN, Muskegon, Mich. Filed Mar. 6, 1924. Serial No. 697,352. 8 Claims. (Cl. 192—88.)



1. A fluid pressure operated device comprising a first member, a second member, a plurality of movable shoes carried by one of said members, the other member having a friction surface engageable by said shoes, an inflatable tube for moving said shoes to effect gripping engagement, a plurality of liners between said shoes and said tube, and means connecting said liners and permitting radial movement thereof upon inflation and deflation of the tube.

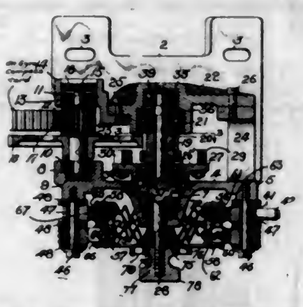
1,690,544. DETACHABLE SAW TOOTH. DANIEL FREDRICK MCGOVERN, Montpelier, Vt. Filed Dec. 6, 1926. Serial No. 152,832. 2 Claims. (Cl. 125—22.)



1. In a rotary saw, a saw blade, and a plurality of saw teeth of generally rectangular shape, each tooth presenting front and rear edges disposed substantially radial to the axis of rotation of the blade and formed respectively with front and rear tongue and groove connections to connect interlockingly with the corresponding edges of the next adjacent teeth and having a pair of downwardly extending flanges adapted to straddle the rim of said saw blade and detachably connect said teeth to said blade.

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1,690,545. GYROCOMPASS TRANSMITTER. CHESTER B. MILLS, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 9, 1922. Serial No. 593,216. 3 Claims. (Cl. 77—351.)

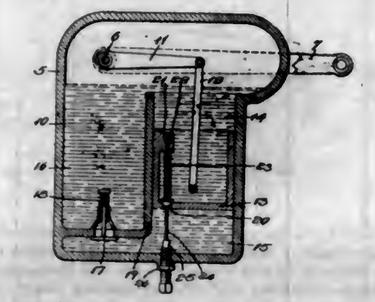


1. A step by step transmitter for repeating at a distance the movements of a sending instrument, comprising a plurality of fixed contacts, a rotatable element, movable contacts actuated by said element, a pair of fixed stops carried by said element having a rectangular cross section and located on a line passing through the center of rotation of said element on opposite sides thereof, a second rotatable element concentric with said first element, a rectangular member fixed thereon arranged to engage said stops, said member being designed to have a predetermined free movement before engaging said stops and means for rotating said second element.

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1,690,546. CONTROLLER FOR VEHICLE SPRINGS. FRANK C. MOCK, Chicago, Ill., assignor to Stromberg Research Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1924. Serial No. 730,806. Renewed Apr. 15, 1927. 18 Claims. (Cl. 188—88.)

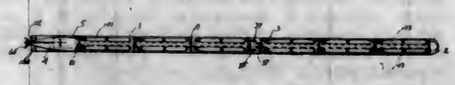
1. In a fluid controller for vehicle springs adapted to be connected between a body and an axle, the combination of a body of fluid, a container for the fluid, said container having a movable piston, means permitting free movement of the fluid with the piston as the body and axle approach each other and affording resistance to movement of the fluid for reverse movement of the piston as the body and



axle separate, and means for releasing the resistance to movement of the fluid during the last part of the reverse movement of the piston.

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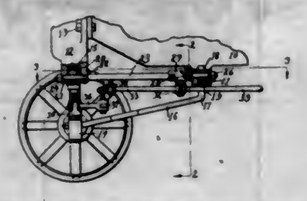
1,690,547. SUBMARINE. GEORGE FRANCIS MYERS. New York, N. Y. Filed Apr. 10, 1917, Serial No. 160,919. Renewed Sept. 26, 1922. Serial No. 590,749. 6 Claims. (Cl. 114—16.)



1. A submergible vessel comprising a hull, and a plurality of submergible vessels carried on the deck of the same and recessed within the said deck, the said second mentioned vessels lying abreast and in tandem.

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1,690,548. STEERING MECHANISM FOR TRACTORS. JOHN LOUIS ORTIZ, Clarinda, Iowa. Filed Dec. 23, 1924. Serial No. 757,662. 8 Claims. (Cl. 280—87.)

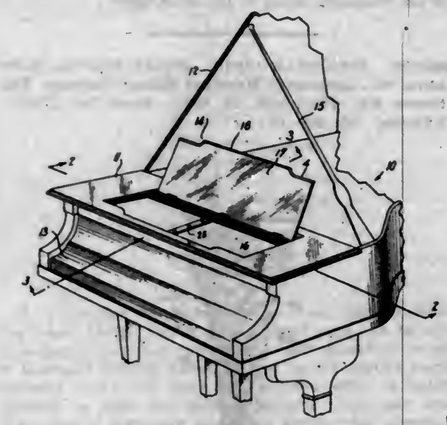


1. In combination, a frame member having a downwardly extending lug, said lug being provided with a horizontally extending opening, a radiator supporting frame member provided with a downwardly extending lug, said lug being provided with an opening in alinement with the first said opening, a shaft extending through said opening, an axle member pivotally connected adjacent to the downwardly extending member of said radiator support, said axle being provided with a radius rod, one end of which is pivotally connected to the rear end of said shaft, a sleeve detachably secured to said shaft having a downwardly extending pin, a lever pivotally connected to said pin, means for imparting movement to said lever, a spindle pivotally mounted to each end of said axle, and means operatively connecting said lever and said spindle whereby movement of said lever will impart pivotal movement to said spindles.

7. In a device of the class described, a sleeve having laterally projecting flanges and a downwardly projecting pivot pin, a set screw for each of said flanges, a bell crank lever pivotally connected to said downwardly extending pin, a link for each end of said bell crank lever, and a set screw for said sleeve.



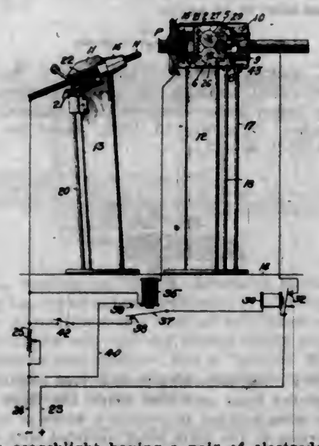
1,690,549. PIANO CONSTRUCTION. HERMAN PALEY, New York, N. Y. Filed Apr. 9, 1928. Serial No. 268,693. 13 Claims. (Cl. 84—180.)



1. A top cover for a grand piano, said cover having an opening therein, and a music rack attached to said top and adapted to cover said opening.

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1,690,550. SEARCHLIGHT SAFETY MECHANISM. MARTIN L. PATTERSON, Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 3, 1924. Serial No. 735,633. 7 Claims. (Cl. 176—51.)

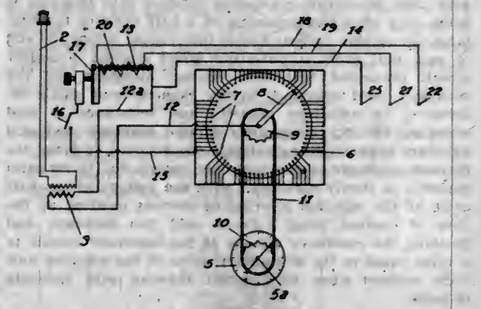


1. In a searchlight having a pair of electrodes, means for feeding each of said electrodes, a main electrical supply for the arc circuit, a circuit-breaker comprising a trip-coil set for a predetermined voltage and shunted across the arc, and means actuated by failure of the feeding means of one of said electrodes whereby the full main line voltage is impressed on said coil to break the arc circuit.

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1,690,551. DEVICE FOR THE APPLICATION OF ELECTROTHERAPY. FRED P. REED, CHARLES F. STROHM, and CLYDE J. DILLWITH, Stockton, Calif. Filed Nov. 29, 1926. Serial No. 151,355. 1 Claim. (Cl. 174—177.)

Apparatus of the character described comprising means for connection of the apparatus with an alternating electric current supply and including a service plug and a primary circuit therewith, a transformer in the primary circuit, a vibrating inductance coil in the secondary circuit of the transformer, and an interrupter switch interposed in such secondary circuit to provide fixed current interruptions through the inductance coil, and service terminals in the secondary circuit of the inductance coil.



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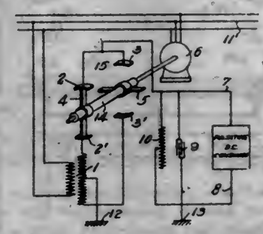
1,690,552. VANITY CASE. PHILIP A. REUTTER, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 17, 1926. Serial No. 88,751. 2 Claims. (Cl. 220—35.)



1. In a vanity box, the combination of a body and a cover pivotally associated on a hinge, a housing in the box having a top, an outer peripheral flange engaging within the box body and a depending inner flange spaced from the outer flange, and a catch of spring metal interposed between the flanges and beneath the top of the housing and concealed thereby, and held in position by the spring of the metal.

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1,690,553. ARRANGEMENT CR SYSTEM FOR OPERATING MECHANICAL RECTIFIERS FOR ALTERNATING CURRENT. REINHOLD RÜDENBERG, Berlin-Grunewald, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a German Corporation. Filed Dec. 1, 1925, Serial No. 72,608, and in Germany Dec. 12, 1924. 4 Claims. (Cl. 175—364.)



4. In an arrangement for producing and feeding a consumer with pulsating direct current from high tension alternating current, in combination a mechanical rectifier

comprising cooperating stationary and rotating contact elements in circuit with the alternating current supplied, the contact surface arc lengths of said elements being such that the circuit connection between said elements is made only after the beginning of a half cycle of the supplied alternating current and is interrupted before the end of said half cycle, a pulsating direct current consumer circuit connected with said contact elements and the consumer, said consumer having capacity and ohmic resistance, an auxiliary capacity and resistance in said consumer circuit, the capacity of said consumer and said auxiliary capacity being suitably dimensioned to bring the reactance voltage of the consumer circuit due to its total capacity in timely agreement with the voltage of the half cycle of the supplied alternating current existing at the time of contact break between said two elements, and to bring the reactance voltage of the consumer circuit to a value equal to the momentary value of the supplied half cycle voltage when the contact between said elements is made.

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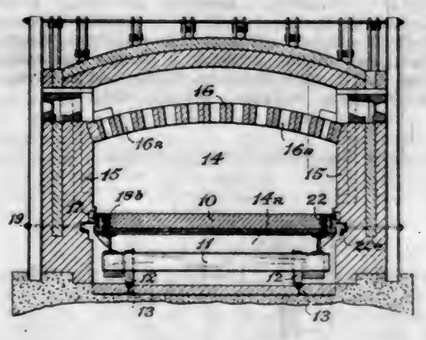
1,690,554. AIR VALVE. WILLIAM A. RUSSELL, Yonkers, N. Y. Filed Dec. 15, 1921. Serial No. 522,478. 7 Claims. (Cl. 236—62.)



1. In an air valve, the combination of a casing having spaced front and back walls the intervening edge walls being comparatively narrow as compared with the width and height of the front and back walls so as to form a thin flat structure, a valve in the casing, a valve seat for the valve, a support in the casing and means for holding it in position, a float in the casing connected with the valve and guided at one end on the support, a thermostatic strip arranged for free travel co-operating with the float, and means for securing the casing to a radiator.

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1,690,555. APPARATUS FOR HEAT-TREATING ARTICLES. WILLIAM L. SCHULENBERG, Dunkirk, N. Y. Field Feb. 15, 1927. Serial No. 168,297. 5 Claims. (Cl. 263—28.)



1. In a furnace, or the like, the combination of a chamber member, and a hearth member movable in said chamber member; one of said members comprising a hollow beam having a trough like pocket, the other member comprising a beam having a trough like pocket, and a filling of loose, comminuted, heat insulating material in said pockets; each of said beams having a finage portion adapted to project into the insulating filling of the other beam.

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1,690,556. ICE-CREAM CONE. JOSEPH SHAPIRO, Baltimore, Md., assignor to Maryland Baking Company, Baltimore, Md. Filed Sept. 24, 1927. Serial No. 221,784. 5 Claims. (Cl. 99—10.)



1. A molded edible pastry ice cream cone of the type having a bowl and an integral conical stem or handle portion, characterized by the provision of a plurality of parallel ribs two of which are tangent to the bowl at the mold line, and intermediate ribs extending across the junction of bowl and stem at an angle.

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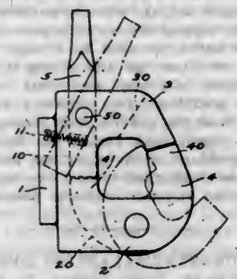
1,690,557. SAFETY RAZOR. MARGARET J. SMITH, Los Angeles, Calif., assignor, by mesne assignments, to Western Safety Razor Company, Los Angeles, Calif., a Corporation. Filed May 19, 1923. Serial No. 640,096. 1 Claim. (Cl. 30—12.)



In a safety razor, a backing plate curved lengthwise and having parallel front and rear edges, the front edge of said plate being notched to provide a series of teeth, the central portion of the plate being provided with an aperture, a flexible blade adapted to overlie said backing plate and having its cutting edge positioned above and slightly to the rear of the forward ends of the teeth on the backing plate, said blade having an aperture that is adapted to coincide with the aperture in said plate, a top plate adapted to overlie said blade with its front edge positioned slightly to the rear of the cutting edge of the blade, a threaded shank projecting from the under side of said top plate through the coinciding apertures in the blade and backing plate, a handle having a threaded recess that receives said threaded shank, the rear edges of said back plate and flexible blade coinciding with each other and being provided with coinciding notches, lugs depending from the rear edge of the top plate, which lugs are adapted to occupy the coinciding notches in said backing plate and blade, and the outer faces of which lugs lie flush with the outer coinciding edges of the back plate and flexible blade.



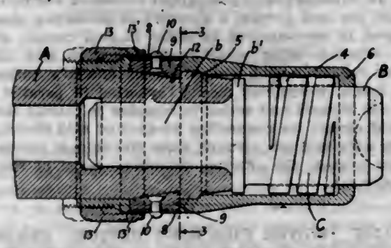
1,690,558. TRAILER HITCH. EARL B. STALEY, Seattle, Wash. Filed Jan. 18, 1927. Serial No. 161,763. 4 Claims. (Cl. 280—33.15.)



1. A coupling device for vehicles, comprising a shrouding frame having two separated lower jaws and an upper jaw spaced above and opposite the ends of said lower jaws, a U-shaped holding finger pivoted by its central portion between said lower jaws and adapted when in holding position to close the opening between lower and upper jaws, and a vertically positioned locking bar pivoted in the upper part of the shrouding frame, with its upper end projecting to form an operating handle, and movable into position to engage and to free the upper face of the inner end of the holding finger.

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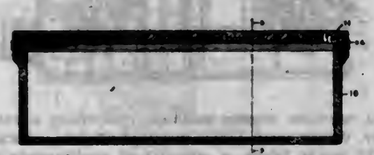
1,690,559. TOOL RETAINER. EDWARD W. STEVENS, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 15, 1926. Serial No. 94,684. 6 Claims. (Cl. 121—32.)



1. The combination with a percussive machine and a working tool to be actuated thereby, of a retainer for releasably maintaining said tool on said machine said retainer engaging said tool and having spring pressed members engaging said machine, and a threaded member projectable over said first named members to prevent releasing movement of the latter.

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1,690,560. BURIAL VAULT. MURRAY E. STOW, Plainfield, N. J. Filed July 30, 1923. Serial No. 654,582. 8 Claims. (Cl. 72—7.)



1. In a burial vault a cover member supported directly on the body member, and separate means for sealing said members together, comprising a vertical groove between said cover and body with semi-circular cut-outs at the base of said groove in the body flange and at the head of said groove in the cover flange, a horizontal groove connected to the head of said vertical groove and having rectangular cut-out portions in the cover and body rims contiguous to each other, a cover flange rigidly secured to said cover over said horizontal groove and plastic material sufficient to exactly fill said vertical and horizontal grooves.

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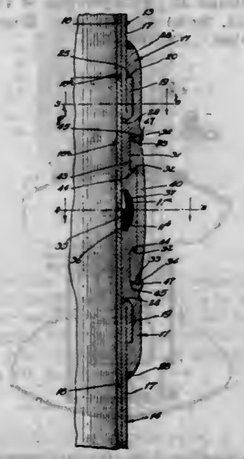
1,690,561. BUTTON, STUD, OR THE LIKE. ELLEN STURTON, Mapperley, Nottingham, England. Filed Nov. 22, 1927, Serial No. 235,006, and in Great Britain Nov. 22, 1926. 3 Claims. (Cl. 24—90.)



1. A button composed of two parts adapted to be connected together in a readily detachable manner, one part being formed with a reduced shank projecting therefrom, a press-stud fastener for connecting together the said two button parts, said fastener consisting of readily engageable and separable stud and socket elements, one of the fastener elements being embedded in the projecting shank of the one button part and the second fastener element being embedded in the other button part, the last said button part being arranged to engage with the end of said shank surrounding the fastener part which the shank carries when the two parts of the button are united and such parts being held spaced apart by the shank portion.

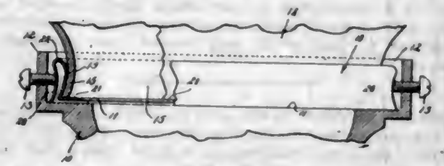
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1,690,562. STOVEPIPE-CASING COUPLING. OLIVER C. TROUT, Los Angeles, Calif., assignor, by mesne assignments, to Los Angeles Manufacturing Company, Inc., Los Angeles, Calif., a Corporation of California. Filed June 13, 1925. Serial No. 36,841. 10 Claims. (Cl. 285—129.)



1. In a coupling for casing, the combination of: a pair of flanges, said flanges being secured to ends of casing members; a collar for securing said flanges together; and an annular lip formed on each of said flanges, said lips being adapted to engage said collar, thus securing same in place.

1,690,563. GLOBE-MOUNTING RING. WESTERN UNDERWOOD, Los Angeles, Calif., assignor of one-half to H. H. Walker, Los Angeles, Calif. Filed Dec. 26, 1923. Serial No. 682,600. 2 Claims. (Cl. 240—135.)



2. A single body of metal shaped to form a resilient split ring for use in connection with a globe and holder therefor, the ring including two spaced flange like parts, one within the other, and having their upper edges connected together, one adapted to be held by the holder and the other adapted to hold the globe, the globe holding part having an inwardly extending flange to support the globe.

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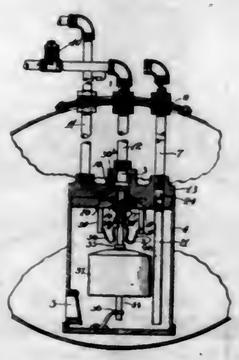
1,690,564. SPIRAL FILTER. MARSHALL H. WARD, Brooklyn, N. Y., assignor to Motor Improvements, Inc., Newark, N. J., a Corporation of Delaware. Filed Feb. 4, 1927. Serial No. 165,768. 7 Claims. (Cl. 210—183.)



1. A spacer for a filtering unit of the type described comprising a reticulate strip of thin metal, said strip being laterally slit at intervals to render it substantially non-resilient longitudinally.

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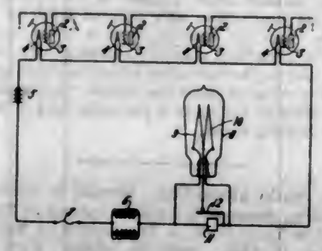
1,690,565. FUEL-FEEDING DEVICE FOR INTERNAL-COMBUSTION ENGINES. LEONARD H. WHEELER, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 31, 1923, Serial No. 642,422. Renewed Sept. 28, 1928. 4 Claims. (Cl. 158—36.)



1. A fuel feeding device for internal combustion engines and the like, comprising in combination with a main fuel supply tank at a lower level than the engine carburetor, a relatively small container positioned with its fuel-receiving cavity extending above the low liquid level of the main supply tank and connected for fuel inflow from the lower part of said main supply tank to the lower part of said container; a fuel conduit leading from the lower part of the container for supplying the carbureter; a conduit from a source of super-atmospheric pressure connected with the upper part of the cavity of said container; a conduit from the upper part of the container cavity leading to the engine intake, whereby suction may be operative for producing sub-atmospheric pressure in said container; valve means operated by change of level of the liquid in the container for alternating the dominance of super-atmospheric pressure and said sub-atmospheric pressure, for permitting the container to fill from the main supply tank by gravity and atmospheric pressure in said main supply tank during the dominance of sub-atmospheric pressure in the container, and to cause the container to be discharged toward the carbureter during the dominance of super-atmospheric pressure.

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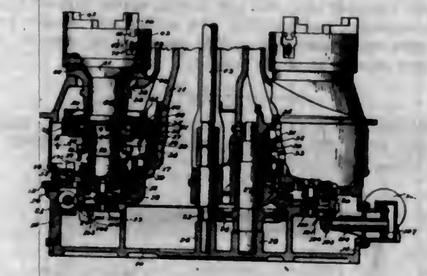
1,690,566. CURRENT-BALLASTING DEVICE. ARTHUR WILLIAM ZIEGLER, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 5, 1925. Serial No. 60,476. 4 Claims. (Cl. 171—312.)



1. In combination, an electrical circuit, a source of potential for said circuit, a plurality of ballasting elements adapted to be connected in series in said circuit, one of said elements being normally connected in said circuit, means for increasing the range of effective ballasting, said means comprising means connected in parallel with said one element and acting in response to voltage changes in said circuit for connecting another of said elements in series with said one element when the voltage across said circuit exceeds the effective ballasting range of the said one element.

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1,690,567. POWER CHUCKING DEVICE. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 12, 1923. Serial No. 680,180. 23 Claims. (Cl. 29—38.)



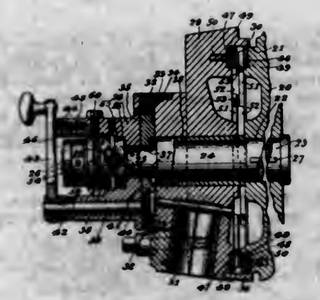
1. A multiple spindle machine, comprising a rotatable carrier, rotary work tables mounted thereon, chuck jaws on said rotary tables, a plurality of continuously driven chuck operating means mounted on said carrier individual to each work table and movable with said carrier co-axial with each of said respective work tables, and clutch means mounted on said carrier for each of said operating means adapted to be actuated at any point in the rotation of the carrier to connect said operating means to operate the respective chuck jaws.

10. A multiple spindle machine, comprising a carrier, means for rotating said carrier, rotary work tables mounted thereon, means for rotating said tables, means adapted to disconnect said work table driving means at a predetermined point of the rotation of the carrier, and adapted to connect the same after a predetermined interval constituting a work removing and replacing interval, forward and reverse chuck operating means for each table adapted to open and close said chuck jaws, a plurality of manually actuated means mounted on the carrier individual to each table for operatively and selectively connecting said forward and reverse chuck operating means to open and close said respective chuck jaws during said interval and at any point in the rotation of the carrier, and means for continuously driving said chuck operating means.



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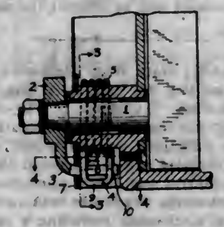
1,690,568. TURRET HEAD FOR MACHINE TOOLS. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 29, 1925. Serial No. 40,174. 7 Claims. (Cl. 29—49.)



1. In a machine of the character described, a head support including a stud, a head rotatably mounted on said stud, cooperating locking means carried by said support and head, means for moving said head longitudinally upon the stud to engage and disengage said locking means, and toggle means adapted to maintain the locked relation of said means under pressure in said engaged position.

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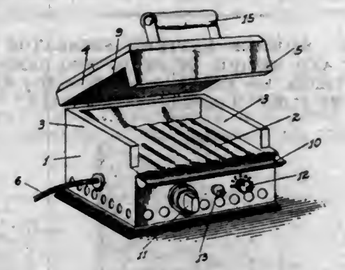
1,690,569. OSCILLATOR SPRING. LESLIE F. CURTIS, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Feb. 8, 1928. Serial No. 252,731. 7 Claims. (Cl. 171—209.)



1. A resilient member comprising a helical spring having its ends disposed transversely across the helix.

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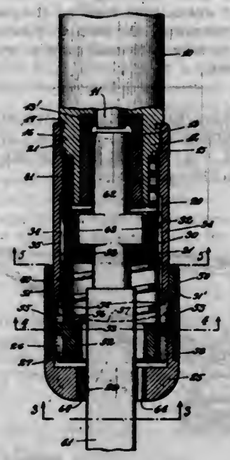
1,690,570. ELECTRIC BROILER. HARVEY O. DALBEY, Sr., Oakland, Calif. Filed Apr. 25, 1927. Serial No. 186,256. 3 Claims. (Cl. 53—5.)



1. An electric broiler comprising a main body having a top plate, an upstanding flange on two sides and the back of the plate, a lid hinged to the body to rest on the flanges and having a depending flange to close the front open space between the side flanges when the lid is closed, and heating elements in the plate and lid.

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1,690,571. TOOL AND TOOL RETAINER. JOHN SHERMAN, Donaldson, New York, N. Y. Filed Nov. 24, 1923. Serial No. 676,742. 14 Claims. (Cl. 131—32.)



1. The combination with a barrel containing a reciprocatory hammer and a tool to be driven by said hammer, of a tool retainer secured to the barrel and having a relatively strong spring tending to urge the tool toward the hammer, and a relatively weak spring tending to urge the tool away from the hammer.

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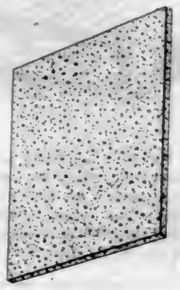
1,690,572. METHOD FOR IMPARTING A LINENLIKE EFFECT TO COTTON. HULDREICH EGLI, Arbon, Switzerland, assignor to Aktiengesellschaft Seeriet, Arbon, Switzerland, a Corporation of Switzerland. Filed Jan. 2, 1926. Serial No. 79,032. 3 Claims. (Cl. 8—20.)

1. Process for producing permanent linenlike effects in cotton goods, which comprises taking for treatment cotton goods (yarns and webs) constituted of threads whose fineness does not exceed English yarn No. 60, and sub-

jecting such goods to the action of sulphuric acid of from about 49° to 50½° Bé. for a period of not less than about four minutes, then washing the goods and thereafter subjecting the same while under tension to a treatment with caustic alkali of about 15° Bé. at ordinary temperatures.

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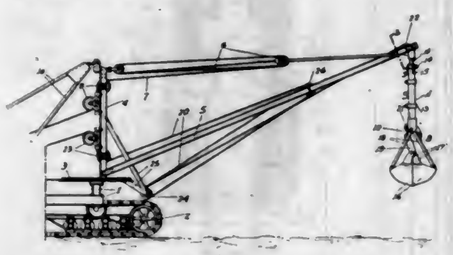
1,690,573. STORAGE-BATTERY SEPARATOR ELEMENT AND METHOD OF PRODUCING SAME. NATHAN FALLEK, Los Angeles, Calif. Filed May 4, 1925. Serial No. 27,689. 4 Claims. (Cl. 136—144.)



1. The herein described method of producing storage battery plate separator elements, which consists in producing a pulp composed of pulverized vegetable fibre and water, boiling said pulp, then washing said pulp to remove all dirt and impurities, then subjecting the cleansed pulp to the direct action of steam, then treating the pulp with a soda solution, then rewashing the pulp to remove all traces of soda and then mixing with said pulp a small quantity of pulverized rubber.

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1,690,574. DREDGER-BUCKET MOUNTING AND OPERATING STRUCTURE. JOHN E. FUNK, Stockton, Calif. Filed Feb. 8, 1927. Serial No. 166,680. 11 Claims. (Cl. 212—425.)



1. In a dredger, a boom, a bucket therebelow, said bucket comprising opposed grabs pivoted together for opening and closing movement, rigid connection means between the boom and bucket and supporting the latter in suspended and definitely spaced relation to the boom, means for closing the grabs including a cable to be pulled, and connections between the cable and boom for causing such pull to exert a positive downward pressure on the boom and bucket.

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1,690,575. MOUNTING FOR INDICATING INSTRUMENTS FOR AUTOMOBILES. PHILO M. GELATT, La Crosse, Wis., assignor, by mesne assignments, to National Gauge & Equipment Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 19, 1923. Serial No. 675,640. 3 Claims. (Cl. 180—90.)

1. In an instrument mounting for an automobile instrument board, a casing having a closed back with a plurality of perforations for bearings and an open forward end, a rim member secured to said open end having an inner forwardly extending edge, an insertable dial plate member, and an insertable transparent member, securing devices for removably clamping said insertable members against said



inner edge of said rim member, the said inner edge of said rim member being inserted through an opening formed in said instrument board, and means for clamping said casing against the instrument board whereby the rim member will be held against the inner face of the board with the inner edge thereof projecting beyond said board.

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1,690,576. INVENTORY. FLOYD O. GOODMAN, Lewiston, Idaho. Filed Oct. 10, 1927. Serial No. 225,094. 7 Claims. (Cl. 116—133.)



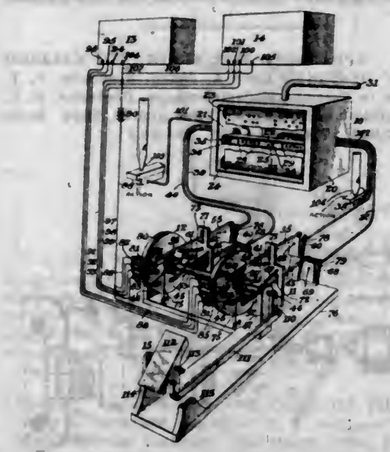
2. In an inventory comprising a multitude of dials, a dial having numbered graduations, the numbers thereof consisting of a unit numeral suffixed with ciphers, and arranged radially with its unit numeral disposed nearest the center, and provided with an expansible arrow rotatably mounted on said dial and adapted to expose the desired numerals of each number and to conceal the undesired.

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1,690,577. ORGAN. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Dec. 12, 1922, Serial No. 606,373. Renewed Mar. 23, 1928. 5 Claims. (Cl. 84—88.)

2. In a musical instrument, the combination with automatic means for producing musical sound, a swell motor for varying the intensity of sound emitted from the instrument, automatic control mechanism controlled by the automatic player mechanism to actuate said swell motor, said automatic control mechanism including a rotatable shaft, a pair of ratchet wheels loosely mounted thereon, a rotary selector element loosely mounted on the shaft and operatively connected to said ratchet wheels, containing elements cooperating with said selecting element and included in the circuit of the swell motor, a pawl for each of the ratchets and bellows for actuating each pawl, and





additional control mechanism movable at the will of an operator for modifying the relative action of said contracting elements and rotary selector.

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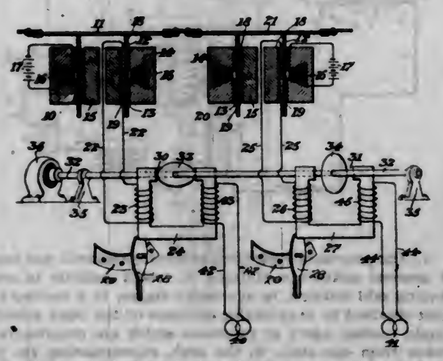
1,690,578. SUBMARINE SOUND RECEIVER. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Mar. 14, 1918. Serial No. 222,422. Renewed Oct. 4, 1924. 11 Claims. (Cl. 114—25.)



1. The combination with a movable body, of means for maintaining said body submerged at a predetermined depth while it is being towed through water, said means including a propeller arranged to be rotated as a result of the movement of said body through the water.

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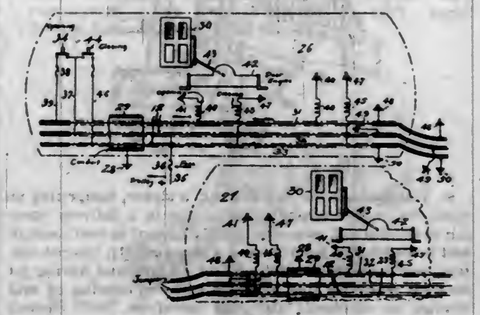
1,690,579. SYSTEM FOR THE PRODUCTION OF AND DETECTION OF COMPRESSIONAL WAVES. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Oct. 3, 1918. Serial No. 256,687. 5 Claims. (Cl. 177—386.)



1. The method of producing signal waves which consists in generating a plurality of alternating magnetic fields of force, varying the reluctance of the paths of the magnetic fields periodically to maintain a predetermined phase relationship among the amplitude variations of said plurality of magnetic fields, producing from said magnetic fields a plurality of series of electrical oscillations respectively by induction, and utilizing said electrical oscillations to produce a plurality of series of sound waves respectively.

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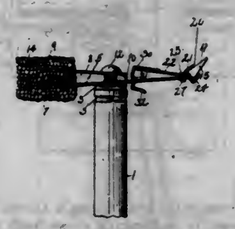
1,690,580. MEANS FOR PROTECTING ELECTRICAL LINE CONDUCTORS. FRANK HEDLEY, Yonkers, and JAMES S. DOYLE, Mount Vernon, N. Y. Filed July 3, 1924. Serial No. 723,962. 2 Claims. (Cl. 175—294.)



1. In a system of the type described, the combination of electrically operated power devices, a plurality of insulated conductor cores within a conduit, one of said cores being normally energized from one side of a power source the other side of which is grounded, the others of said cores being connected to said electrically operated power devices, and a conducting grounded covering encasing each of said insulated conductor cores to prevent untimely operation of said power devices by reason of the occurrence of a short circuit between said cores one on the other by shunting any short circuit currents caused thereby through said grounded coverings back to the power source, and means connected to said normally energized core for permanently opening the circuit when said short circuit occurs.

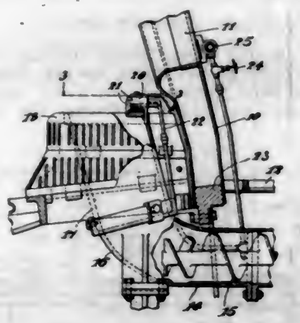
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1,690,581. WINDOW CLEANER. CHESTER A. HOFF, Akron, Ohio, assignor to The Akron Lamp Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 10, 1927. Serial No. 174,209. 1 Claim. (Cl. 15—121.)



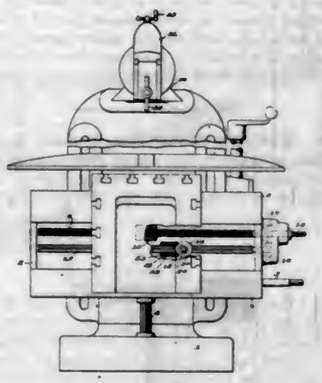
A device for the purposes set forth comprising, a stationary plate having a jaw upon its outer end, a plate pivoted intermediate its ends upon the stationary plate, a jaw upon one end of the plate adapted to cooperate with the first named jaw to clamp a wiper strip, and a secondary jaw upon the other end of pivoted plate adapted to cooperate with the stationary plate to hold a locking strip or wedge for securing the first-named jaws in clamping position.

1,690,582. STOKER. ANDREW M. HUNT, New York, N. Y., assignor to Standard Stoker Company, Incorporated, a Corporation of Delaware. Filed Jan. 27, 1925. Serial No. 5,026. 4 Claims. (Cl. 110—101.)



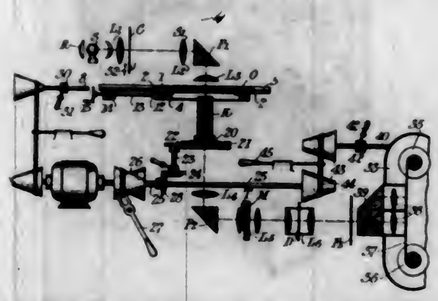
1. The combination of a fire box, a stoker, comprising an upwardly curved conduit terminating in a delivery opening in the fire box, means for supplying coal to said conduit, and a distributor head having a downwardly tapered bottom, positioned at the top of said conduit and having jet forming means in line with the delivery opening of said conduit to distribute the coal therefrom, said conduit having throughout its length an expanding unobstructed cross-sectional area so that it flares toward its outlet.

1,690,583. FEED CONTROL FOR SHAPING-MACHINE WORKTABLES. HUGO W. JACOBSON, Arlington, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Apr. 2, 1925. Serial No. 20,127. 3 Claims. (Cl. 90—38.)



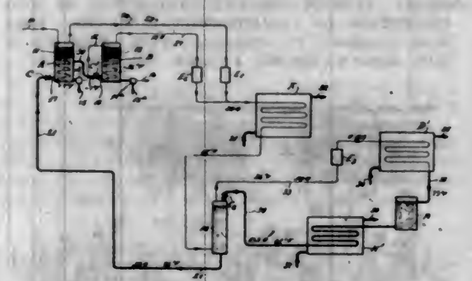
1. A shaping machine combining a frame; a reciprocating ram; a normally stationary cross head secured to the frame beneath the ram; a work table movable horizontally on said cross head; a feed screw rotatably but non-translatably journaled in said cross head, said screw being provided at one end with means for effecting manual rotation thereof; a non-rotatable nut carried by said work-table and having a threaded connection with said screw; a single purpose shaft rotatably and non-translatably journaled in said cross head parallel with said screw; a spur gear connection between said shaft and said screw; a pair of mating bevel gears carried by said work-table, one of said gears having a spline connection with said single purpose shaft; an operating shaft rotatably journaled in said table transverse to said single purpose shaft and connected to the other of said bevel gears; and manual means for rotating said operating shaft from the front end of said work-table.

1,690,584. APPARATUS FOR PRODUCING KALEIDOSCOPIC DESIGNS. LOYD A. JONES, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 21, 1924. Serial No. 707,900. 7 Claims. (Cl. 88—24.)



1. An instrument comprising means for supporting a color screen, two separated design carrying members, means for projecting light in focus from such color screen and each of said design carrying members to a screen, a kaleidoscopic prism mounted in the path of light from one of said design members, certain of said elements being movable, a motion picture camera for recording the images so projected and interconnected means for simultaneously varying the images projected through the kaleidoscopic prism by movement of such elements and for operating the motion picture camera.

1,690,585. PROCESS FOR TREATING GASES BEARING GASEOUS SYNTHETIC AMMONIA. WALTER H. KNISKERN, Syracuse, N. Y., assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y., a Corporation of New York. Filed Aug. 16, 1923. Serial No. 657,677. 10 Claims. (Cl. 183—119.)



1. The process of liquefying synthetic ammonia gas from a gaseous mixture containing it, which consists in subjecting said mixture, in successive stages, to a cooling action obtained by evaporating portions of the same volatile liquid cooling agent at pressures which are progressively lower from one stage to the next, recompressing the resulting vapors of such cooling agent to the same pressure, condensing such compressed vapors to liquid form, and returning such liquid to the evaporating stages.



1,690,586. COLLAPSIBLE PAPER CUP. WILLIAM J. MAIN, Westport, Conn., assignor to Charles Errett, New York, N. Y. Filed Jan. 26, 1924, Serial No. 688,672. Renewed Mar. 27, 1928. 4 Claims. (Cl. 229—53.)



3. A blank for a collapsible paper cup, comprising two similar halves on each side of a median transverse line, the edges of each half of the blank tapering inward toward the ends of said transverse line, and tongues projecting laterally and longitudinally from opposite diagonal corners of said blank.

1,690,587. VANITY BOX AND COMPACT THEREFOR. JOHN L. MCATEER, Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 17, 1928. Serial No. 262,534. 2 Claims. (Cl. 132—83.)



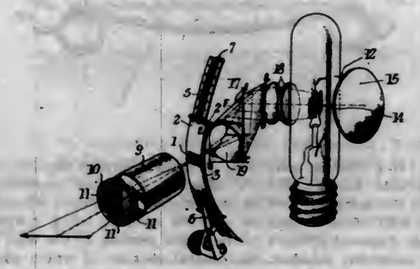
1. In a vanity case, the combination of a body and a cover, one of these parts being provided with an opening surrounded by an annular flange, and a compact holding base having an exterior provided with identification means and removably retained in the case so that it forms a part of the case and the identifying means is exposed through the opening.

1,690,588. TACK AND BRAD DRIVER. WILLIAM ROBERT MCCLUNEY, Warrensburg, Mo. Filed Sept. 9, 1927. Serial No. 218,479. 4 Claims. (Cl. 1—47.)



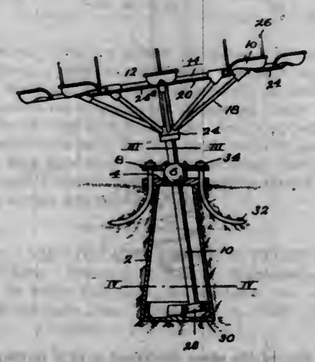
2. An instrument of the class described comprising a handle having a bore formed in a relatively large section and a relatively small section, a cylindrical casing extending into the smaller section and terminating within the bottom of the larger section, said termination of the casing being provided with a bayonet slot, a plunger slidable through the casing and having a laterally extending pin adapted to be engaged with the bayonet slot, a shank engaged on the plunger within the larger section of the bore, a knob on the shank, a spring engaged on the larger section of the bore about the shank impinging against the bottom of the larger section of the bore and the knob.

1,690,589. PROJECTION SYSTEM FOR COLOR MOTION PICTURES. JOSEPH MIHALYI, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,508. 4 Claims. (Cl. 88—16.4.)



1. In a projector, a projection gate, a vertically banded light source behind said gate, a projection objective in front of said gate, a filter comprising vertical color bands associated with said objective, and a condensing system between the light source and the gate, and adapted to project an image of the light source through the gate to the filter, and including reflecting surfaces positioned to rotate an image of the banded light source through a vertical angle of ninety degrees, whereby the light bands will appear to be horizontal.

1,690,590. INCLINED REVOLVING TEETER. WALTER D. MOLBY, Baldwin City, Kans. Filed Aug. 8, 1924. Serial No. 730,958½. 2 Claims. (Cl. 272—50.)

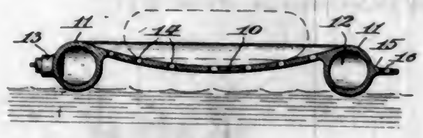


1. An amusement device consisting of a casing adapted to be set into the ground and provided at its upper portion with a socket and at its lower portion with an annular channel, an inclined shaft extending into said casing and said channel and having both ends free for describing orbits in either direction and also to rotate axially in either di-

rection independently of any orbital movement, an antifriction roller mounted upon the lower end of said shaft and arranged to travel in the channel in the lower portion of the casing, a ball fixed to the shaft intermediate the ends of the latter and freely mounted in the socket in the upper portion of the casing, and passenger carrier means mounted upon the upper portion of the shaft.

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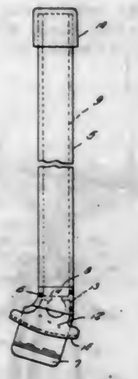
1,690,591. BUOYANT SOAP DISH. HENRY F. NELTHORPE, Los Angeles, Calif. Filed Jan. 22, 1927. Serial No. 162,693. 2 Claims. (Cl. 45—28.)



1. In a buoyant soap dish, a shallow concave member, an inflatable member formed integral with and depending from the marginal portion of said shallow concave member, the wall of said shallow concave member being tangentially disposed relative to the upper portion of the wall of the inflatable member, the central portion of which shallow concave member is perforated, and which marginal inflatable member extends a substantial distance below the lowermost portion of the shallow concave member so that the latter is supported above the surface of the water when the soap dish is positioned on a body of water.

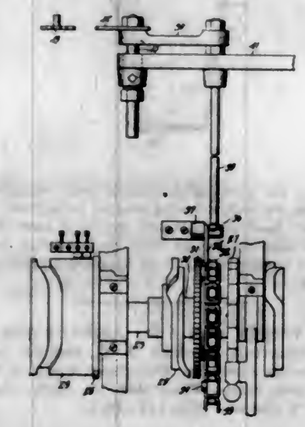
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1,690,592. ADJUSTABLE PIPE-BENDING TOOL. WILFORD H. NEWLAND, Inglewood, Calif. Filed Aug. 29, 1927. Serial No. 216,186. 2 Claims. (Cl. 81—15.)



1. In a tool of the class described, a tube having one end terminating in a hook extension forming a fixed jaw, a shank slidable in the tube and having one end adjacent the jaw formed with a ball, a movable jaw formed with a socket to slip over the ball, said end of the tube being formed with an opening so that the socket may be slipped over the ball, a plate for closing said opening to prevent the socket from disengaging with the ball, and means for holding the plate in place.

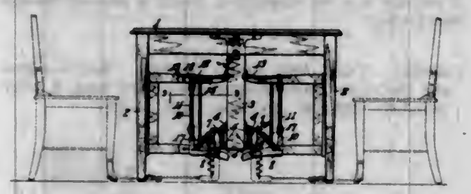
1,690,593. DIAL-CAM-CONTROLLING MECHANISM. NAPOLEON J. PERRY, Nashville, Tenn., assignor to May Hosiery Mills, Nashville, Tenn., a Corporation of Tennessee. Filed Sept. 13, 1920, Serial No. 409,983. Renewed Mar. 23, 1928. 12 Claims. (Cl. 66—24.)



1. In a dial and cylinder knitting machine a dial cam support, needle operating cams on the same, pins on the cams, a positioning cam for the needle cams, the positioning cam having grooves therein for engaging said pins on the needle cams and means for indicating twenty-four successive positions of the needle-cams, substantially as set forth.

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1,690,594. TABLE AND CHAIR STRUCTURE. WILLIAM S. PHILLIPS, Cameron, W. Va. Filed June 25, 1927. Serial No. 201,321. 1 Claim. (Cl. 155—80.)

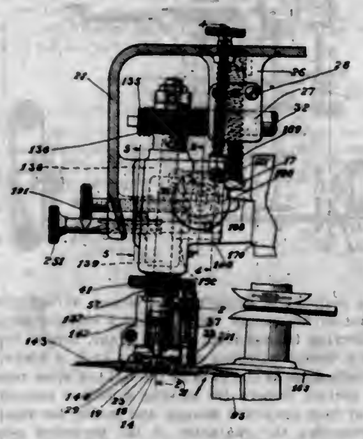


The combination with a table and a chair, of a fixed support carried by and depending from the under side of the table top, brackets carried by said support adjacent to its lower end, a vertically disposed hinge-like supporting member pivotally mounted on each bracket, said member having an outwardly directed arm at its upper end, a pair of telescopically related bar sections whereon said chair may be supported in an elevated position, one of said sections having pivotal connection with said chair, the other of said sections having a terminal arm disposed at a right angle thereto, said terminal arm being pivotally attached to the lower end of said supporting member and being adapted, in the lowered position of said sections, to occupy vertically alined relation to said member, and a retractile coil spring having one end attached to the arm of said supporting member and the other end attached to the last mentioned bar section at a point adjacent to the angle between said section and its arm, whereby, when said last mentioned arms is positioned in vertically alined relation to said supporting member, said spring is caused to assume parallel relation to the last named elements, in which position it is powerless to produce relative movement of said elements.



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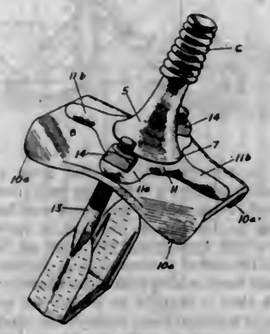
1,690,595. SKIVING MACHINE. ANDREW R. RIDDERSTROM, Nahant, Mass., assignor to Beacon Folding Machine Company, Lynn, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1924. Serial No. 684,437. 17 Claims. (Cl. 69—16.)



1. A machine of the class described having, in combination, a knife, a feed roll and a feed disk for feeding material to the knife, the feed disk being adjustable with a combined longitudinal and transverse movement in a plane through the axis of the feed disk substantially parallel to the axis of the feed roll, and means for adjusting the feed disk with a combined longitudinal and transverse movement in the said plane.

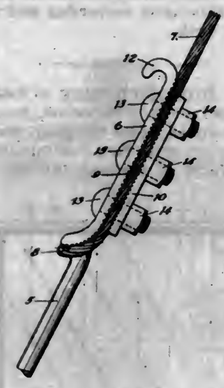
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1,690,596. INSULATOR PIN. CARL P. SEYLER, Pittsburgh, Pa. Filed May 14, 1925. Serial No. 30,185. 1 Claim. (Cl. 173—321.)



An insulator pin construction including a saddle plate of rectangular form having its corners bent to provide cross-arms engaging means and its central portion pressed out to form a central apertured seat portion and laterally and longitudinally extending strengthening ribs, a pin extending through the apertured seat portion having fastening means thereon in contact with each face of the plate and between which the plate is held, said laterally extending ribs each formed with a bolt receiving opening.

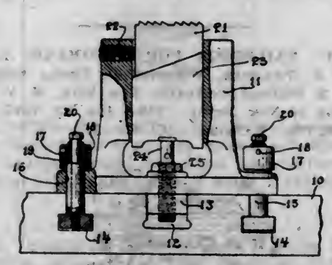
1,690,597. ANCHOR DEVICE. CARL P. SEYLER, Pittsburgh, Pa. Filed May 21, 1927. Serial No. 193,205. 5 Claims. (Cl. 24—125.)



1. In an anchoring device, the combination with a guy-rod having an integrally formed elongated guy receiving head at one end thereof, and a curved bearing over which the guy is looped, a clamp member for clamping a looped portion of the guy on the head, and means for attaching the clamp member to the head.

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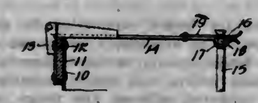
1,690,598. WORK DRIVER FOR CAR-WHEEL LATHES. MAURICE W. SHELHOUSE, Hamilton, Ohio, assignor to Niles-Bement-Pond Company, New York, N. Y., a Corporation of New Jersey. Filed May 15, 1926. Serial No. 109,393. 7 Claims. (Cl. 82—40.)



1. A work driver for lathes comprising in combination, a face plate, a bracket adjustably mounted on said face plate, a work engaging jaw adjustable on said bracket, guiding means for said bracket permitting radial movement of said bracket on said face plate, retaining means therefor, movable with said bracket, and resilient means interposed in said retaining means permitting manual adjustment of said bracket along said guiding means when the retaining means are released.

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1,690,599. AIR-AGITATING-TUBE SUPPORT FOR ICE MACHINES. NORMAN M. SMALL, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Mar. 4, 1927. Serial No. 172,747. 2 Claims. (Cl. 62—159.)

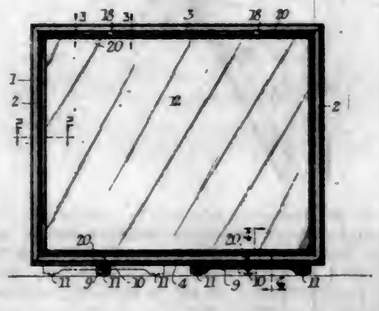


1. The combination with an ice can for containing water to be frozen and a tube for supplying air for agitating the water during the freezing operation, of a

bracket for supporting said tube, said bracket being permanently hinged to the can at one side thereof and being swingable to a position out of the path of the ice being discharged from said can, and means at the free end of the bracket for detachably supporting said air tube, substantially as set forth.

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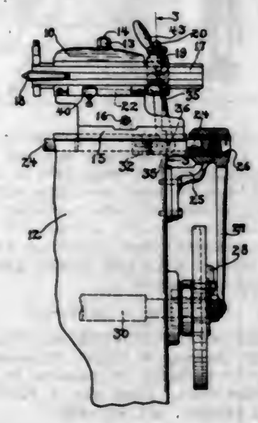
1,690,600. MOTION-PICTURE SCREEN. ADOLPH STUBER and ERNEST E. UNDERWOOD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 19, 1926. Serial No. 117,096. 4 Claims. (Cl. 88—24.)



1. In a motion picture screen, the combination with a support including a projecting wall, a screen surface, a member adapted to carry the screen surface, movable connections between the member carrying the screen surface and the support, said movable connections being adapted to support the screen surface in a predetermined position facing, but spaced from the protecting wall of the support.

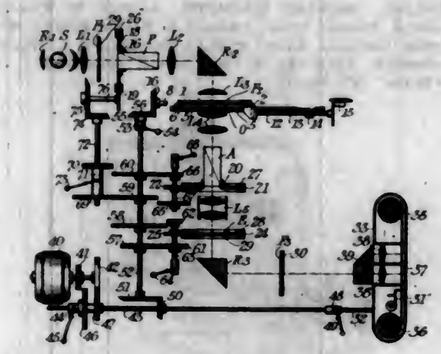
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1,690,601. TAILSTOCK FOR AUTOMATIC LATHES. JOHN J. THACHER, Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 22, 1927. Serial No. 162,779. 6 Claims. (Cl. 82—31.)



1. A tailstock for lathes comprising in combination, a frame adapted to be adjustably positioned on a lathe bed, a spindle longitudinally movable therein, means to move said spindle within said frame comprising an oscillating shaft mounted adjacent the frame, a pivotally mounted lever adapted to be actuated by oscillatory movement of said shaft, and means frictionally connecting said pivotally mounted lever and spindle.

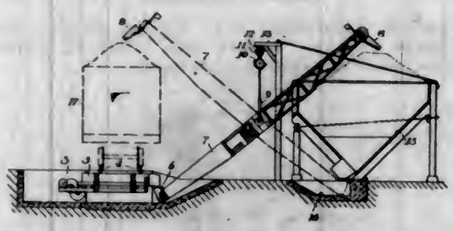
1,690,602. OPTICAL INSTRUMENT. ADRIAAN P. H. TRIVELLI, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 27, 1924. Serial No. 722,837. 6 Claims. (Cl. 88—24.)



1. An instrument comprising a source of light, an optical system for evenly illuminating a certain plane and for projecting images from such a plane, means for positioning a design carrying member at such a plane, light polarizing means in the path of the light, a color recording motion picture camera for making a motion picture color record of such projected images, and means for simultaneously changing the character of the projected polarized light and operating the motion picture camera.

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1,690,603. METHOD OF AND APPARATUS FOR HANDLING MATERIAL. HENRY B. WALKER, Marion, Ohio, assignor to The Fairfield Engineering Company, Marion, Ohio, a Corporation of Ohio. Filed Sept. 15, 1926. Serial No. 135,550. 1 Claim. (Cl. 214—1.)



Apparatus for transferring material from a point beneath a railroad track into a vehicle on said track, comprising a bin located to one side of said track and having a discharge opening in its bottom portion, a conveyor, and means for pivotally supporting the same at its mid portion, on vertically alined horizontal and vertical axes and between the said track and bin, and the conveyer also being of such length that it may be so positioned as to permit either transfer of material from beneath the track to the top of the bin or frame bottom of the bin into a vehicle mounted on the track.

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1,690,604. SPECTACLE TEMPLE. JAMES W. WELSH, Providence, R. I., assignor, by mesne assignments, to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 29, 1923. Serial No. 683,437. 10 Claims. (Cl. 88—52.)

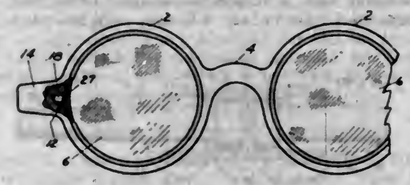
1. A spectacle temple comprising an element in the form of a helix, a terminal member provided with a counterbored recess having an end wall provided with an opening communicating with the bore of the helix, the opening in the end wall being smaller in cross dimension than the enlarged portion of the counterbored recess, and a rod in the helix having an enlarged element seated in the enlarged portion of the counterbored recess.





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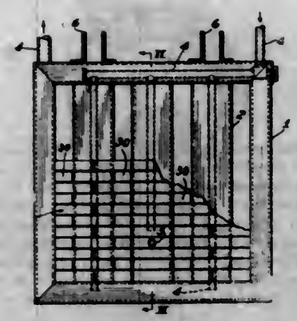
1,690,605. OPHTHALMIC MOUNTING. JAMES WILSON WELSH, Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 16, 1925. Serial No. 23,440. 4 Claims. (Cl. 88—47.)



1. An ophthalmic mounting having a lens-receiving groove provided with a notch, the walls of the groove and of the notch comprising non-metal material, and a non-metal member rigidly seated in the notch and rigidly united with the non-metal material, the non-metal member projecting from the wall of the groove and being adapted to engage a lens.

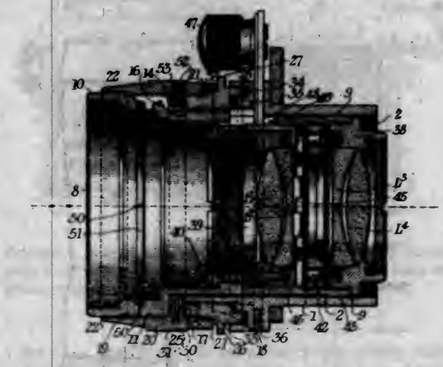
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1,690,606. FURNACE DOOR. EDWARD WILLIAMS, Charleroi, Pa., assignor to Williams Welding & Manufacturing Company, Charleroi, Pa., a Corporation of Pennsylvania. Filed July 29, 1927. Serial No. 209,274. 2 Claims. (Cl. 122—498.)



1. A supporting grid for brick-work which with the supported brick-work constitutes a furnace door, such grid being formed of lengths of metallic conductor for liquid, fitted together, the structure including a marginal portion and an intermediate portion extending transversely between opposite members of the marginal portion, the marginal portion extending transversely beyond the intermediate portion by a pace interval equal, with tolerance, to the width of a standard brick, and the grid spaces being equal, with tolerance, to the width of a standard brick.

1,690,607. FOCUSING OBJECTIVE MOUNT FOR CAMERAS. OTTO WITTEL, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 5, 1927. Serial No. 189,132. 18 Claims. (Cl. 95—45.)



1. In a focusing mount for cameras the combination with a support of an objective mount carried thereby, and a ring having a screw thread engagement with the support and also with the mount for moving one relative to the other, said ring including means for initially adjusting an objective relative to the support.

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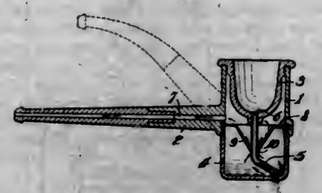
1,690,608. SAFETY RAZOR. VAHAN P. YACOUBIAN, New York, N. Y. Filed Jan. 16, 1928. Serial No. 247,107. 1 Claim. (Cl. 30—12.)



A top member for a safety razor holder having plane guide surfaces on its upper side extending inward at an inclination from parallel side edges, said surfaces being wide at one end and decreasing in width to the other end.

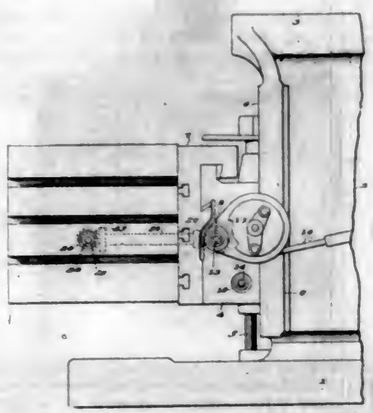
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1,690,609. TOBACCO PIPE. DANIEL F. ZANE, Steubenville, Ohio. Filed Apr. 30, 1927. Serial No. 187,772. 3 Claims. (Cl. 131—12.)



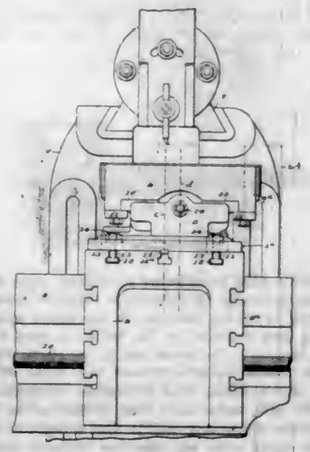
3. A tobacco pipe comprising a tubular body having a stem leading laterally therefrom, a tobacco bowl detachably mounted in closed relation to the upper end portion of said body and enclosed by the latter, a fluid receptacle detachably secured at its upper end to the lower end of said body, a tube leading from said bowl to a point within said receptacle, and a liquid trap interposed between said receptacle and said body, said trap including an inverted conical member depending within the receptacle and provided at its apex with an aperture through which said tube extends, the defining walls of said aperture being spaced relative to said tube to form an intermediate passage.

1,690,610. MOVABLE AND STATIONARY FEED CONTROL FOR SHAPING-MACHINE WORKTABLES. WILLIAM F. ZIMMERMANN, Maplewood, and DANIEL VAUGHN WATERS, Hillside, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed Apr. 1, 1925. Serial No. 19,885. 2 Claims. (Cl. 90—38.)



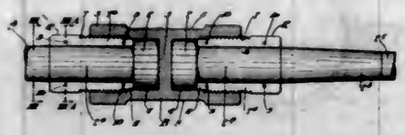
1. In a shaping machine, the combination comprising a cross head; a work carrying table mounted on said cross head; a bracket removably secured to said table and providing spaced walls; a nut fixedly mounted in one wall of said bracket; a screw shaft rotatably mounted on the cross head and engaging said nut to effect movement of the table along the cross head; a gear wheel having a spline connection with said screw shaft and having a bearing in the other wall of said bracket to be moved in accordance with its movement; an operating shaft projecting from the table and adapted to receive an operating crank; and mechanism for connecting the operating shaft to said gear wheel to control the table movement by said operating shaft.

1,690,611. ECCENTRIC VISE. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed May 12, 1927. Serial No. 190,920. 2 Claims. (Cl. 90—60.)



1. In combination with a shaping machine having a work table providing vertically disposed work-aligning side faces; a work-holder comprising a base member substantially the width of said table adapted adjustably to be secured thereto; a body member mounted on said base member with its center line at one side of the center line of said base member; a swivel connection between said base member and said body member, the axis of said swivel connection being at one side of the center line of said body member; and relatively movable work-holding jaws carried by said body member, said jaws projecting beyond the sides of said body member and extending substantially different distances to opposite sides of the center line of said base member, one end of said jaws overhanging one edge of said base member and the adjacent work-aligning side face of said table to grip a vertically extending work-piece aligned by said side face of the table, said body member being adapted to be swung about said axis to cause said ends of the jaws to overhang the other work-aligning side face of said table to grip a work-piece aligned by the last named side face.

1,690,612. METHOD OF MAKING SUCKER RODS. FRANK E. ANDERSON and FORREST H. THORPE, Columbus, Ohio, assignors to The Columbus Sucker Rod Company, Columbus, Ohio, a Corporation of Ohio. Filed Nov. 25, 1925. Serial No. 71,340. 3 Claims. (Cl. 29—148.)



3. The method of making sucker rods which consists in enlarging each end of the rod by upsetting, forging integral heads on the upset ends, then uniformly heating said rods above the upper critical point, and quenching said rods, then heating said rods to a point below the critical point, and allowing said rods to cool slowly in air.

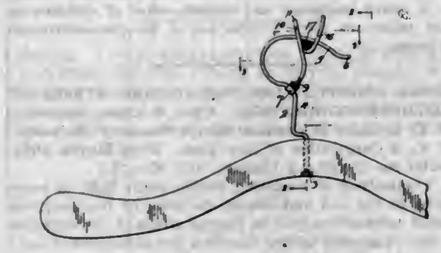
1,690,613. LOW-AIR-PRESSURE DETECTOR AND SIGNAL INNER TUBE. FORREST J. AUSTIN, Hiawatha, Kans. Filed Sept. 15, 1927. Serial No. 219,751. 1 Claim. (Cl. 116—34.)



An inner tube for pneumatic tires comprising a hollow tubular continuous body, a flexible resilient hump formed integrally on the inner portion of the tube and projecting inwardly thereof toward the tread, said hump being semi-cylindrical in cross section and from its center tapering toward its end to gradually merge into the thickness of the tube wall, said hump being formed with a block extension projecting outwardly of the lumen toward the center of the tube, said block having curved sides to conform to the curvature of the beads of the pneumatic tire shoe in which the tube is to be used.

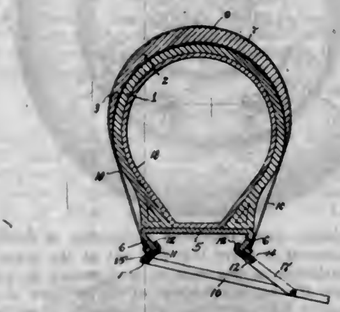


1,690,614. HANGER. SIGMUND BOWER, Brooklyn, N. Y., assignor of one-half to Charles G. Hensley, Brooklyn, N. Y. Filed Dec. 1, 1926. Serial No. 152,004. 12 Claims. (Cl. 223—64.)



1. A hanger of the character described, comprising a garment holding member, a supporting hook therefor for engaging a support such as a line, a pivotal locking member arranged to swing in a plane parallel with the plane of said hook, and adapted to straddle said hook, said locking member and hook co-operating to grip the line between them for the purpose set forth.

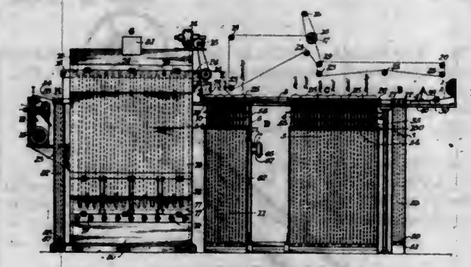
1,690,615. MECHANISM FOR VULCANIZING TIRES. WILBUR B. BURKE, East Cleveland, Ohio. Filed June 11, 1923. Serial No. 644,654. 6 Claims. (Cl. 18—18.)



1. In mechanism for vulcanizing together the parts of a tire casing, the combination of a base adapted to fit within the beads of such casing; a shell of non-stretchable material engageable against the exterior of the assembled casing; interengaging means on the shell and the base for detachably securing the same together; and means for expanding said casing from within, said base providing an unobstructed seat for such beads whereby free lateral movement of the latter into contact with said shell is permitted.

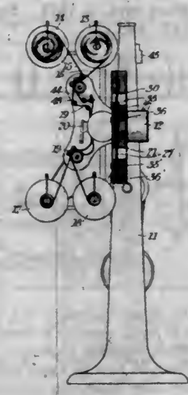
1,690,616. FILM-TREATING APPARATUS. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Feb. 3, 1923. Serial No. 616,846. Renewed Dec. 2, 1927. 11 Claims. (Cl. 95—94.)

1. Apparatus for the continuous treatment of strip film by a reversal process and comprising a series of development and treatment tanks wherein a latent image on such film may be developed and the resulting image treated, a printing station and controllable illuminating means at said station, and a second series of development and treatment tanks wherein a latent image formed at such station may be developed and the resulting image treated, and means for



driving a single long strip of film continuously through said first series of tanks, then past said station and then through said second series of tanks.

1,690,617. METHOD OF MAKING DUPLICATE NEGATIVES. JOHN G. CAPSTAFF, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 6, 1924. Serial No. 711,480. 19 Claims. (Cl. 95—75.)

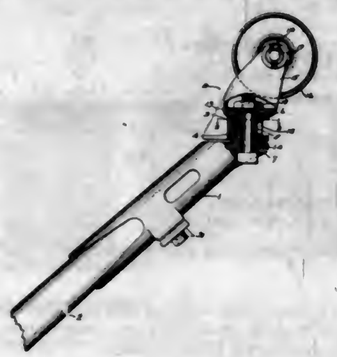


1. The method of making a photographic print of corrected contrast from an image bearing layer that includes the steps of determining the contrast of such image and light printing such image upon a layer predominantly sensitive to certain wave lengths, and containing a dye absorptive of light of such wave lengths, the light used in printing being adjusted to comprise more or less light of said wave lengths in accordance with the determination of such contrast.

1,690,618. TROLLEY HEAD. HOMER P. CHANDLER, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 23, 1927. Serial No. 214,847. 2 Claims. (Cl. 191—60.1.)

1. A trolley head comprising a pole casting having a hollow projecting member therefrom with a side opening and two vertical central openings, a harp member having spaced parts to support a collector and a hollow projecting member therefrom with a side opening and a bottom opening and arranged to receive the first said hollow projecting member and a top opening to register with the said vertical central openings, means passing through the reg-

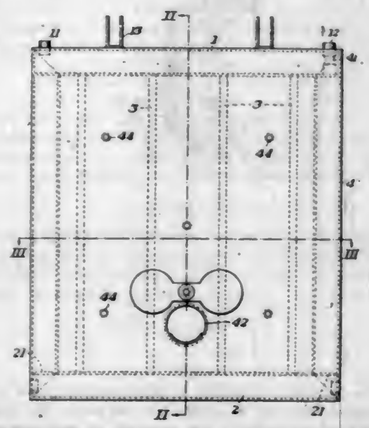
istering openings to hold the said parts together in rotative relation, a helical spring mounted in the first said projecting member with its ends projecting laterally and



engaging the edges of the walls forming the side openings in the said parts and adapted to yieldingly hold the pole casting and the harp member in predetermined relation.

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1,690,619. DOOR FOR FURNACES. BAYARD H. CHRISTY, Sewickley, Pa., assignor to Williams Welding & Manufacturing Company, Charleroi, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1927. Serial No. 217,027. 2 Claims. (Cl. 122—498.)



1. A supporting structure for a furnace door including upper and lower headers with interconnecting circulation pipes, and an intermediate hollow body within which said circulation pipes extend, the whole constituting a structure with a reentrant space on one side for the reception of a body of refractory material, the upper header being provided with an inlet orifice, the lower header with an orifice opening to the space within the intermediate hollow body, and an outlet pipe leading from the space last named through the upper header.

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1,690,620. CELLULOSE ESTERS CONTAINING UNSATURATED ORGANIC ACID GROUPS. HANS T. CLARKE and CARL J. MALM, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 4, 1927. Serial No. 188,862. 6 Claims. (Cl. 260—101.)

1. An organic ester containing a cellulose group esterified with an acyl group corresponding to a monocarboxylic organic acid in which there is an ethylenic bond.

1,690,621. CELLULOSE ESTERS CONTAINING NITRO GROUPS AND HALOGEN-SUBSTITUTED ACYL GROUPS. HANS T. CLARKE and CARL J. MALM, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 14, 1927. Serial No. 191,543. 14 Claims. (Cl. 260—101.)

1. A mixed inorganic and organic ester of cellulose in which there are nitro groups and a halogen-substituted acyl group.

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1,690,622. COMPOSITION FOR JOINING STRIPS OF MOTION-PICTURE FILMS. OTTO W. COOK, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 6, 1925. Serial No. 28,508. 2 Claims. (Cl. 87—17.)

1. The method of rendering visible under light of wave lengths in the red and orange portions of the spectrum a liquid composition used in joining strips of photographic film that comprises adding thereto a dye absorptive of light of such wave lengths.

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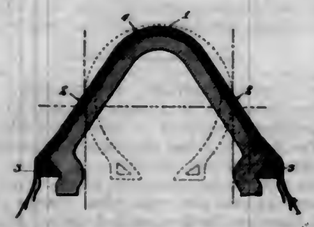
1,690,623. COLLAPSIBLE CORE. PETER DE MATTIA, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 16, 1924. Serial No. 744,046. 35 Claims. (Cl. 154—9.)



1. A collapsible core comprising a plurality of sections which are mounted to move into and out of the plane of operative continuity, a key section, and means to automatically move the key section out of the position of operative continuity upon swinging the plurality of sections out of the plane of operative continuity.

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1,690,624. PROCESS FOR MAKING PNEUMATIC TIRES. BARTHOLD DE MATTIA, Clifton, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 29, 1925. Serial No. 59,394. 3 Claims. (Cl. 154—14.)

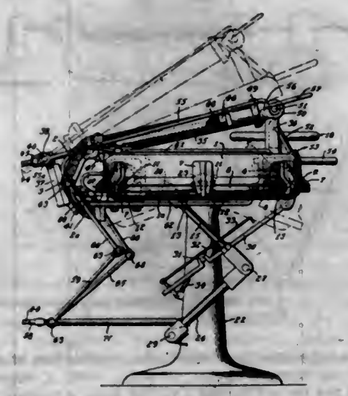


1. The process of manufacturing a pneumatic tire which consists in building the unvulcanized tire to conform in cross section to an inverted letter V the tread defining the apex and the beaded edges delimiting the tips of the V, in forcing the beaded edges toward each other, in expanding the tire uniformly from the inside thereof to impart to it its ultimate shape and size, and in retaining the tire thus stretched during vulcanization thereof.



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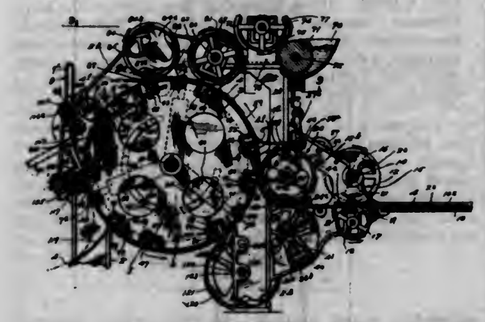
1,690,625. COUNTERBALANCING DEVICE FOR VULCANIZING MOLDS. PETER DE MATTIA, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 27, 1926. Serial No. 137,845. 10 Claims. (Cl. 18—17.)



1. In a vulcanizing mold, a normally horizontal fixed mold section, a movable mold section hinged with reference thereto, counterbalancing means overlying the movable mold section and movable therewith, and means for tilting the mold sections as a unit.

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1,690,626. MACHINE FOR FORMING BAG BOTTOMS IN BAG TUBES. JAMES DUVALL, Camas, Wash., assignor to Crown Willamette Paper Company, San Francisco, Calif., a Corporation of Delaware. Filed Oct. 27, 1924. Serial No. 746,121. 22 Claims. (Cl. 93—21.)



1. In a bag-bottom forming machine, a rotated main cylinder, a coacting rotated roll adjacent the latter, means carried by the main cylinder and the roll, respectively, adapted to seize and hold the forward-end portions of the opposite walls of the bag-tube, thereby to pull said bag-tube portions in opposite directions during the rotation of said main cylinder and said roll; the means carried by the roll comprising a clamp element and supplemental yielding holding means, the clamp element adapted to release when the supplemental means function and the latter means being adapted to yield to the pull of said holding means of the main cylinder when said separated portions are in tension.

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1,690,627. PROCESS OF MAKING ARSENATE OF LIME. CARLETON ELLIS and VERNON T. STEWART, Montclair, N. J., assignors to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Filed Mar. 5, 1923. Serial No. 623,010. 3 Claims. (Cl. 23—53.)

1. The process of making arsenate of lime which comprises reacting on powdered quick lime with a solution of arsenic acid containing water in excess of that required to completely hydrate the lime and thereafter desiccating the product by the addition of pulverized quick lime.

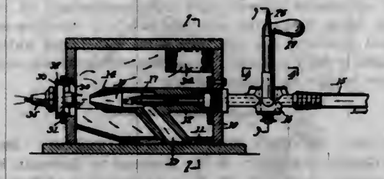
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1,690,628. PROCESS OF MAKING ARSENATES. CARLETON ELLIS and VERNON T. STEWART, Montclair, N. J., assignors to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Original application filed Mar. 5, 1923, Serial No. 623,010. Divided and this application filed Oct. 16, 1924, Serial No. 744,058. Renewed Apr. 4, 1928. 4 Claims. (Cl. 23—53.)

4. A process of making calcium arsenate, which comprises grinding quick lime with arsenic acid, while in the presence of an insufficient amount of water to produce a pasty mass.

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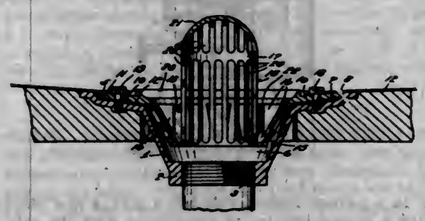
1,690,629. SPARK-PLUG-CLEANING DEVICE. GEORGE W. FLEMING and ROBERT W. ELLINGHAM, Worcester, Mass., assignors to Fleming Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1927. Serial No. 238,200. 2 Claims. (Cl. 51—8.)



2. In a device for cleaning spark plugs, the combination with a receptacle having a layer of abrasive therein in fine particles, of a nozzle provided with an inlet extending down into the body of the abrasive, said receptacle having an opening in line with said nozzle and provided with a concave seat, and an adapter for the spark plug having a convex surface fitting said seat, whereby the spark plug adapter can be held against the seat to receive the force of the abrasive at various angles.

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1,690,630. ROOF DRAIN. WELL S. FLEMING, Portland, Oreg. Filed Feb. 10, 1926. Serial No. 87,281. 7 Claims. (Cl. 182—31.)



1. In a drain of the class described, an inwardly sloping body affording an inverted conical chamber and having means to connect a drain-pipe thereto, said body in-

cinding an integral, laterally arranged flange having drainage into said chamber, a cover-plate arranged to be secured in superposed relation to said body-flange with a sheet of water-proofing material therebetween, an inverted conical skirt extending integrally from said cover-plate within said body chamber perforated to allow drainage therethrough, and a slotted dome centrally supported upon said skirt and extending above the level of said cover-plate affording an annular depression between the skirt and said dome.

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1,690,631. PROCESS FOR TREATMENT OF PAPER. DAVID GENESE, deceased, Baltimore, Md., by Norris Genese, Baltimore, Md., administrator, assignor of one-half to William H. Orem, Baltimore, Md. Original application filed Aug. 18, 1926, Serial No. 130,070. Divided and this application filed Aug. 31, 1927. Serial No. 216,772. 1 Claim. (Cl. 91—70.)

The process of modifying paper to increase the elasticity and shrinkability thereof, comprising moistening the paper with a concentrated solution of boracic acid, and drying the paper under heat and pressure.

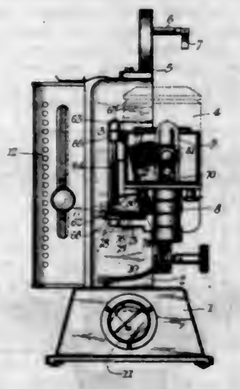
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1,690,632. PROCESS OF MAKING CHLOROFORM-SOLUBLE CELLULOSE ACETATE. HARRY LE B. GRAY and CYRIL J. STADD, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 6, 1927. Serial No. 196,999. 4 Claims. (Cl. 260—101.)

1. In the process of manufacturing cellulose acetate the steps of thoroughly mixing 100 parts by weight of esterifiable cellulose material with an esterifying catalyst and less than 250 parts of liquid acetic anhydrid of which there is at least the theoretical quantity for fully esterifying said material, said anhydrid containing less than 15% of solvent diluent, and the temperature of the reaction being below the solution point of cellulose acetate in said mixture, the reaction being continued until said material is fully converted into chloroform-soluble cellulose acetate in the undissolved state.

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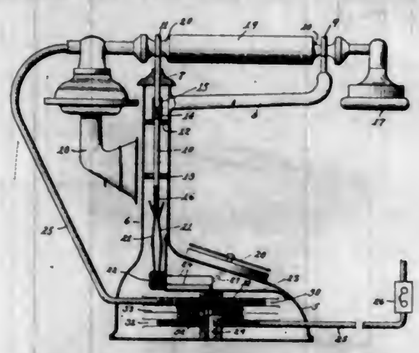
1,690,633. MOTION-PICTURE PROJECTOR. NEWTON B. GREEN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 15, 1925. Serial No 50,444. 2 Claims. (Cl. 88—17.)



1. In a motion picture projector, a gate, a first shutter having a normal position in registration with the gate, a lamphouse adapted to illuminate the gate and hinged to swing to an inoperative position, a member connected to the shutter, a cam connected to the lamphouse and operative to engage said member and move said shutter out of registration with the gate as the lamphouse is swung, and a second shutter having a normal position out of registration with the gate and having a member adapted to engage and move said first named member whereby the second shutter may be actuated to be moved into registration with the gate and the first shutter may be thereby moved out of registration with the gate.

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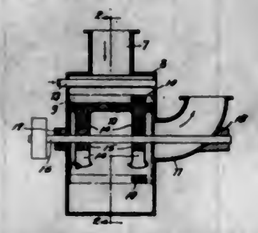
1,690,634. TELEPHONE. FREDERIC CECIL GREENE, Atlanta, Ga., assignor of four-tenths to Frank Branan, Macon, Ga. Filed Aug. 26, 1927. Serial No. 215,683. 5 Claims. (Cl. 179—155.)



3. In a telephone instrument, the combination of a hand set and an electric circuit therefor, with a supporting standard for the set having a hollow base, a bearing in the hollow base, separate spring-driven reels journaled in the base on the bearing therein, an insulating cord for the circuit wires of the instrument leading through the hollow base to the hand set and having an intermediate part in fixed relation to the bearing between the reels, and a division plate mounted on the bearing between the reels, one of the reels operating to wind the slack of the cord leading into the hollow base and the other of the reels operating to wind the slack of the cord between the fixed part thereof and the hand set, the division plate operating to separate the compensating coils of the cord wound on the bearing by the reels.

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1,690,635. APPARATUS FOR CLEANSING AND COOLING GASES. OTTO HUBMANN, Frankfort-on-the-Main, Germany, assignor to Metallbank & Metallurgische Gesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 8, 1926, Serial No. 147,147, and in Germany Aug. 8, 1925. 3 Claims. (Cl. 261—90.)

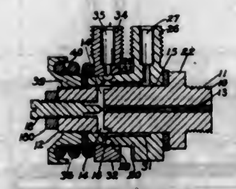


1. In combination, in an apparatus for separating from gases particles suspended therein, a chamber, a gas and liquid contacting means disposed within said chamber, said means including a cylindrical member revolvable about its axis, the walls of said cylinder having a plurality of narrow passageways adapted to the passage of fluids provided therein, each of said passageways having a converging fluid inlet and a diverging fluid discharge opening, and means for introducing a gas and liquid into the chamber and simultaneously through the passagewnys, the walls of said chamber cooperating with said cylinder to prevent the gases from traversing said chamber except through the narrow passageways in the walls of said cylinder.



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1,690,636. LUBRICATOR. GUS A. JAMERSON, Cincinnati, Ohio, assignor to Max Stern, Cincinnati, Ohio. Filed Nov. 19, 1925. Serial No. 70,156. 11 Claims. (Cl. 184—7.)



7. In a device of the class described the combination of a stud, a sleeve carried by the stud and having a tapering section on its exterior wall, means for clamping the sleeve to the stud, a collar rotatably mounted on the tapered wall of the sleeve, the sleeve, collar and stud having communicating passages therein for providing communication between the interior of the stud and the exterior of the sleeve and collar and spring means for retaining the collar in rotatable engagement upon the tapering outer wall of sleeve and precluding leakage between the sleeve and collar.

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1,690,637. SEPARABLE FASTENER. GUSTAV JOHNSON, West Roxbury, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,151. 15 Claims. (Cl. 24—217.)

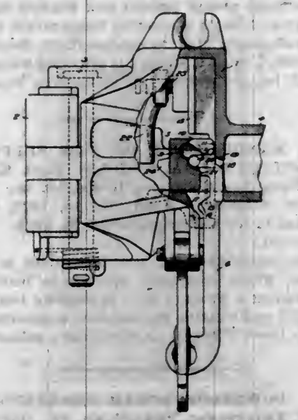


1. A separable fastener comprising, in combination, a stud having a head, a neck and a shank portion, a cooperating socket including a back plate and a front plate adapted to be secured to opposite sides of a carrying medium, a boss portion providing a plurality of resilient stud-engaging fingers extending from said back plate through the carrying medium toward said front plate, said fingers surrounding the stud-receiving aperture passing through said back plate, and means extending from one plate through the carrying medium to engage the other plate and secure the socket parts in position.

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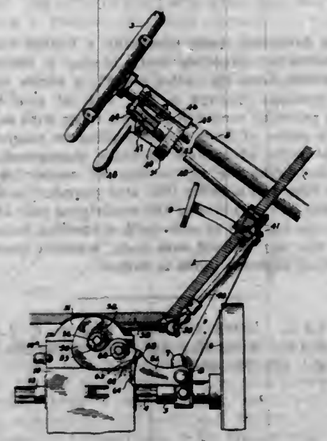
1,690,638. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 5, 1926. Serial No. 86,166. 12 Claims. (Cl. 213—126.)

1. A car coupler involving a coupler head, a knuckle rotatably mounted thereon, a lock for the knuckle, and a lifter for actuating the lock, said lifter being slidably connected to the lock and having an inclined face for cooperating with the latter, said inclined face being adapted when the lifter executes an unlocking movement to move into engagement with the lock and cause the latter to move to unlocked position, the said lock after having been raised to unlocked position being adapted under the influence of gravity to slide down the said inclined face and shift laterally so as to engage and be supported by said knuckle in a lock set position.



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1,690,639. GEAR-SHIFTING MECHANISM. ELMER G. KESLING, Bloomfield, N. J. Filed Feb. 1, 1924. Serial No. 689,990. 10 Claims. (Cl. 74—58.)



1. In a gear shifting mechanism, the combination with a plurality of shiftable elements, of a selector shaft movable longitudinally to select the shift desired and partially rotatable to complete the shift, a rockable element geared to the selector shaft to effect the partial rotation thereof, and a clutch lever having a delay gear connection with said rockable element, whereby the selector shaft is rotated only during the latter part of the movement of said lever.

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1,690,640. MANUFACTURE OF SULPHURIZED DERIVATIVES OF PHENOLS. EMIL KRAUS, The Hague, Netherlands, assignor to Fabriek van Chemische Producten, Schiedam. Filed Feb. 16, 1926, Serial No. 88,704, and in the Netherlands Aug. 5, 1925. 14 Claims. (Cl. 260—20.)

1. In the manufacture of sulphur derivatives of phenols, the process which comprises adding to a phenol a quantity of alkali sufficient to convert more than approximately one-fourth of the phenol into alkali phenolate but

insufficient so to convert the whole of the phenol, heating the mixture until free from water, adding from 1 to 2 atomic proportions of sulphur for each molecular proportion of the total phenol present and heating the mixture for a sufficient time to a reacting temperature above 100° C. but insufficiently high to substantially decompose the desired product, until a product is obtained whose solution in an alkali has the property of fixing basic colors on cotton.

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1,690,641. MANUFACTURE OF NEW SULPHURIZED DERIVATIVES OF NAPHTHOLS. EMIL KRAUS, The Hague, Netherlands, assignor to Fabriek van Chemische Producten, Schiedam. Filed Feb. 16, 1926, Serial No. 88,705, and in the Netherlands Nov. 24, 1925. 15 Claims. (Cl. 260—20.)

4. In the manufacture of new derivatives of naphthol, the process which comprises heating to boiling in an aqueous medium a mixture of a naphtholic body, sulphur and an alkali and treating the obtained sulphurized derivatives with a lower aliphatic aldehyde and a soluble sulphite.

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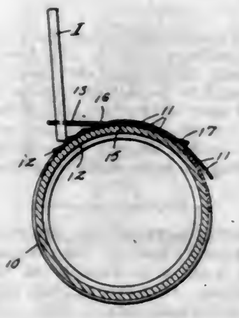
1,690,642. DOWNFLOW STEAM GENERATOR. FREDERICK W. KRONENBERG, Philadelphia, Pa. Filed Apr. 15, 1922. Serial No. 552,854. 2 Claims. (Cl. 122—258.)



1. In a downflow steam generator, a header comprising a longitudinally extending body having a chamber extending throughout its entire length, a series of spaced outflow openings through a side wall of said body arranged in pairs for connecting upflow tubes with said chamber, and a series of boxes corresponding in number to the number of pairs of outflow openings superposed on said body, each box having an opening for connection with a downflow tube and opening into said chamber to the space between the two openings of the underlying pair of outflow openings, the top wall of each outflow opening being closely adjacent the top wall of said body, whereby communication between adjacent boxes is baffled.

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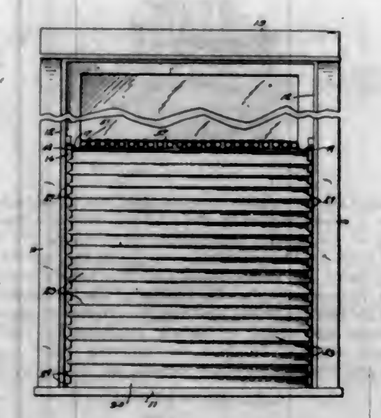
1,690,643. HOSE CLAMP. SAMUEL C. LAVENDER, Lorenzo, Tex. Filed Mar. 13, 1928. Serial No. 261,334. 5 Claims. (Cl. 24—19.)



1. A hose clamp comprising a metallic band having at one end a series of longitudinally spaced transversely extending slots, the opposite end of the band having upon its outer face a spring tongue for engagement in said slots, the last named end of the band outwardly of said spring tongue having a slot through which the first named end of the band may be passed.

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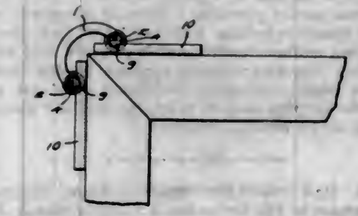
1,690,644. COLLAPSIBLE WINDOW SHUTTER OR SHIELD. IRA LENNOX, Grand Junction, Colo. Filed July 16, 1927. Serial No. 206,205. 10 Claims. (Cl 189—60.)



1. The combination with a window frame, of a collapsible shutter comprising a plurality of inverted V-shaped leaves, links pivotally connecting the leaves with each other, each link having sliding engagement with one of said leaves, the window frame having guides with which said leaves engage, the ends of the leaves having sliding engagement with the guides, means for supporting the uppermost leaf at any one of a plurality of elevations on the window casing.

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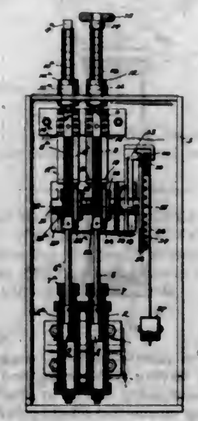
1,690,645. PROTRACTOR. LEWIS C. LLOYD, Wilmington, Calif. Filed Sept. 29, 1927. Serial No. 222,839. 3 Claims. (Cl. 33—102.)



1. A protractor comprising an arcuate arm provided at its ends with rings, disks mounted for turning movement within the rings, rule sections and bracket lugs mounted upon the disks and adapted to retain said rule sections.



1,690,646. MOTOR-CONTROL MECHANISM. HENRY C. A. MEYER, Baltimore, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 31, 1925. Serial No. 19,750. 12 Claims. (Cl. 161—15.)



1. In a motor control mechanism, the combination of a reversible fluid pressure motor; a constant speed control therefor; and connections between the motor and said speed control for bringing the latter into operation only during one portion of the motor stroke.

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1,690,647. ESTERS OF CHOLESTEROL WITH UNSATURATED ACIDS. WALTER MINNICH, Montreaux, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 10, 1924, Serial No. 749,045, and in Switzerland Nov. 19, 1923. 1 Claim. (Cl. 260—106.)

As articles of manufacture useful in therapeutics the herein described esters of cholesterol with unsaturated acids of the general formula: R.COOH wherein R stands for an aliphatic or aliphatic-aromatic hydrocarbon radical carrying at least one treble linkage.

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1,690,648. PLASTIC PREPARATION. EDWIN K. O'BRIEN, Charlottesville, Va. Substitute for application Serial No. 752,025, filed Nov. 24, 1924. This application filed Nov. 26, 1927. Serial No. 236,013. 5 Claims. (Cl. 106—24.)

5. As a new article of manufacture, a preparation comprising portions of the plant known as the Jerusalem artichoke dried and reduced to a finely divided condition, mixed with substances adapted to render the whole resistant to deteriorating effects of heat and moisture.

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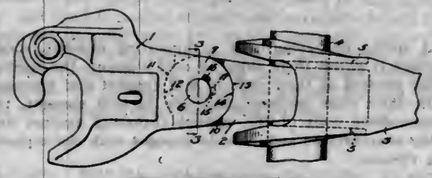
1,690,649. ADJUSTABLE WINDOW SCREEN. ROBERT L. RADFORD, Biltmore, N. C., assignor of one-third to H. B. Leavitt, Asheville, N. C. Filed May 24, 1927. Serial No. 193,837. 4 Claims. (Cl. 156—14.)

1. In a window screen, the combination with a frame member, a combined filler and adjustment strip including a yielding body having flanges of different length projecting from the same side thereof, fastenings for securing the short flange to the window frame and the opposite flange frictionally and slidably engaging the opposite side of the screen frame.



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1,690,650. DRAFT APPLIANCE FOR RAILWAY CARS. WILLIAM J. REGAN and ENOCH GEORGE, Jr., Pittsburgh, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 1, 1926. Serial No. 112,862. 3 Claims. (Cl. 213—18.)



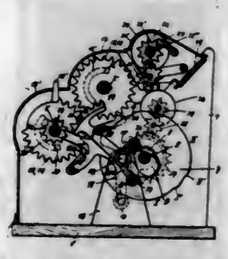
1. A railway draft appliance comprising a car coupler, a yoke device, and means for transmitting draft forces from the coupler to the yoke device, said coupler involving a coupler head, a coupler shank, and a pivot pin for pivotally connecting the head and shank forwardly of said means for transmitting draft forces from the coupler to the yoke device, said pivot pin being disposed wholly above the under face of said shank and having interlocking engagement with said coupler preventing its removal in all normal relative positions of the coupler head and shank.

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1,690,651. CALCULATING MACHINE. ALBERT SCHUBODE, Brunswick, Germany, assignor to Firma Hannoverakassen-Gesellschaft m. b. H., Peine, Hannover, Deutschland, Germany. Filed Jan. 5, 1923, Serial No. 610,934, and in Germany Jan. 14, 1922. 4 Claims. (Cl. 235—73.)

1. In a calculating machine having a setting-up member the return to zero position of which is utilized for transferring the value set-up, and a counting member, and a calculating member disposed between the setting up and counting members and adapted to receive the value set-up from the setting-up member and pass it on to the counting member, a crank device including a shaft and adapted, on being turned, to couple the calculating

member with the setting-up member and the counting member and to transfer the value, a cam disc on the shaft of said crank, a carrier for the setting-up member coacting with said cam disc, said cam disc adapted, on the crank being turned, to first couple the setting-up member



with the calculating member and then advance both until the calculating member engages the counting member, and again disengage the calculating member first from the counting member and thereafter from the setting-up member before a full revolution of the crank is completed.

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1,690,652. SPRING-PAD CONSTRUCTION. HARRY ALBERT STEELE, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 1, 1926. Serial No. 132,965. 1 Claim. (Cl. 68—9.)



A spring pad comprising a supporting element, coiled springs lying on their sides on said element, the springs being secured at their ends to said element and arranged with their coils inclined relatively to said element, the intermediate coils of the springs thrusting against and being unsecured to and slidably engaged with the supporting element.

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1,690,653. TESTING DEVICE. WILLIAM H. TARVER, Pooler, Ga. Filed Mar. 26, 1925, Serial No. 18,515. Renewed Sept. 25, 1928. 1 Claim. (Cl. 175—183.)



In combination with a vehicle including a dash and a transparent wall above the dash, guide ways carried by the dash, a box supported in the guide ways for vertical movement from a position where it lies wholly between the guides and against the dash to a position where it projects above the upper ends of the guides and partially confronts the transparent wall, means for supporting the box in either of said positions, the walls of the box paralleling the dash having alined pairs of sight openings, ignition testing implements within the box and having sight openings alining with the pairs of openings of said walls, and means associated with the box for connecting the ignition testing implements of the box with an ignition circuit.

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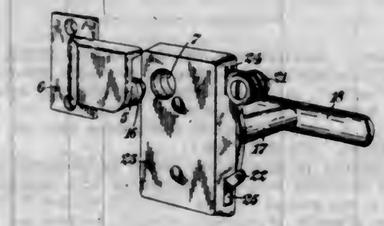
1,690,654. CONTAINER FOR PLASTIC MATERIAL. ARTHUR H. TROTTER, Syracuse, N. Y. Filed Apr. 22, 1924. Serial No. 708,284. 4 Claims. (Cl. 221—60.)



1. A container for plastic material comprising a tubular compressible body having a flattened end portion folded upon itself, and reinforcing means at the folded end portion, the reinforcing means including spaced apart portions located to expose the folded terminal edge of said end portion.

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1,690,655. LATCH FOR CARRIAGE DOORS AND THE LIKE. CHARLES TERRES WEYMANN, Paris, France, assignor to Weymann's Motorbodies (1925) Limited, London, England, a British Company. Filed Nov. 19, 1927, Serial No. 234,445, and in Great Britain Oct. 22, 1926. 1 Claim. (Cl. 292—226.)



In a door latch, the combination with a latch casing provided with an aperture therein, of a keeper stud having a main tapered recess formed therein and a secondary recess adjacent the main recess and arranged for movement into and out of said aperture, a swinging detent mounted in said casing and movable transversely of the stud for selective engagement with either of said recesses, an arm rigid with said detent, a spring engaging said arm to urge the detent into engagement with the stud, a dog for engaging said arm to retain the latter in stud engaging position, and a second arm rigid with the detent and extending outside of the latch casing for operating the detent.

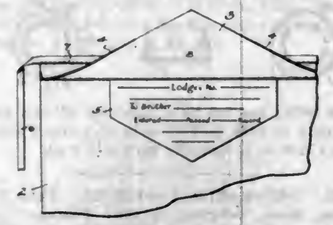
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1,690,656. LODGE OR FRATERNAL PARAPHERNALIA. CHARLES E. WILLIAMS, Columbus, Ohio, assignor to The Lilley Company, Columbus, Ohio, a Corporation of Ohio. Filed Jan. 13, 1926. Serial No. 80,027. 1 Claim. (Cl. 40—1.5.)

A lodge apron comprising a main body section, a flap section and an indicia bearing slip interposed between said



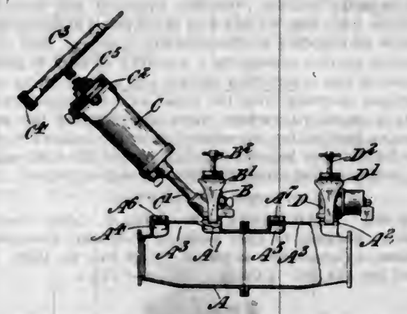
body and flap sections, and a securing tape uniting said body and flap section and said slip along their adjoining



upper edges only, said tape having its ends extending so as to permit of the application thereof to the waist of the wearer.

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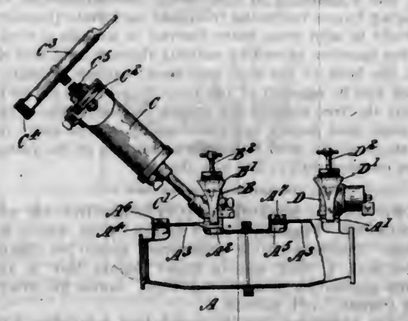
1,690,657. FILLING OF JOINT BOXES FOR ELECTRIC CABLES AND APPARATUS THEREFOR. ALFRED EDGAR WILSON, Bromley, England. Filed June 18, 1925, Serial No. 38,116, and in Great Britain July 26, 1924. 2 Claims. (Cl. 247—1.)



1. Apparatus for filling a joint box for electric cables comprising a detachable fitting adapted to receive a pump and to be fitted to an entrance or filling hole in the box, and another detachable fitting adapted to be fitted to a vent hole in the box and furnished with a relief valve, means being provided in each of the fittings for closing the filling hole and the vent hole whilst the compound is under pressure.

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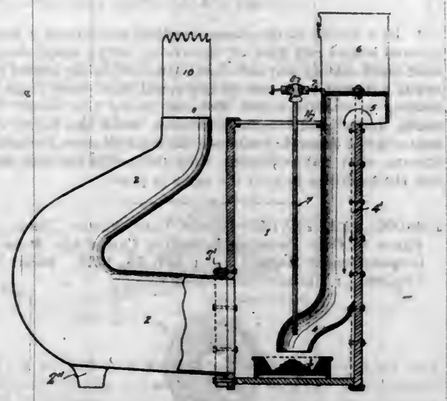
1,690,658. FILLING OF JOINT BOXES FOR ELECTRIC CABLES. ALFRED EDGAR WILSON, Bromley, England. Original application filed June 18, 1925, Serial No. 38,116, and in Great Britain July 26, 1924. Divided and this application filed May 7, 1926. Serial No. 107,526. 3 Claims. (Cl. 247—1.)



1. A method of filling a joint box for electric cables consisting in filling the box through an entrance hole with fluid compound under pressure until said compound extrudes through a variable relief vent in the box and then closing the entrance hole and the vent hole to seal the box while the compound is still under pressure.

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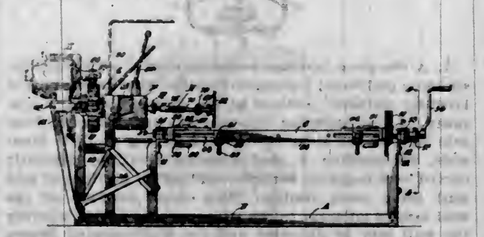
1,690,659. OIL-BURNING STOCK-TANK HEATER. ERNEST WYKES, Humboldt, Iowa. Filed Apr. 16, 1924. Serial No. 706,934. 2 Claims. (Cl. 126—360.)



1. In an oil-burning stock tank heater, the combination with a combustion chamber having an open upper end and a radiator recurved between its ends and having one end communicating with said combustion chamber, of a burner loosely mounted within said combustion chamber, a removable cover on the open end of said chamber, an air conduit hooked over one wall of said chamber with its upper end outside of and downwardly opening relative to said chamber, said conduit passing through said cover and having its lower end opening above and spaced from said burner, a fuel tank carried by the upper end of said conduit and a valve-controlled fuel pipe leading from said tank through said cover and having its lower end intersecting said conduit to discharge axially above said burner.

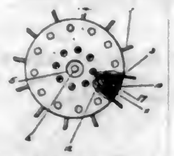
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1,690,660. REPAIR STAND FOR ENGINES, TRANSMISSIONS, AND THE LIKE. ELBA O. ADKINS, Huntington, W. Va., assignor of one-half to The Huntington Auto Supply Company, Huntington, W. Va., a Corporation of West Virginia. Filed Mar. 10, 1926. Serial No. 93,814. 4 Claims. (Cl. 29—89.5.)



1. A device for repairing and rebuilding machinery comprising a supporting frame, a cradle mounted in said frame including end bars and longitudinally extending clamping bars, means adjustably connecting the longitudinal bars with the end bars, adjusting means for adjusting the longitudinal bars to clamp the work between them, means rotatably connecting the end bars with the supporting frame, and means for varying the angular position of the cradle with respect to the frame.

1,690,661. PAPER BEATER. AMOS C. BONTELL, Pittsfield, Mass. Filed Feb. 25, 1928. Serial No. 257,042. 3 Claims. (Cl. 92—22.)



1. In a device of the class described comprising a metal covered beater roll filler of transverse wedge shape design, head rings rigidly and exteriorly attached to the beater roll heads adjacent each end of the metal filler, said rings extending a predetermined distance above the beater roll heads, and a predetermined distance below the beater roll blades, a rod extending between the head rings and attached thereto, said rod extending thru the metal covered filler and the headings to hold the same in place.

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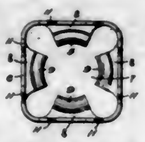
1,690,662. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Nov. 18, 1924. Serial No. 750,590. 1 Claim. (Cl. 16—4.)



A fastener socket having a stud-receiving aperture, a web surrounding said aperture and divided by a series of alternating short and long slots to provide a series of stud-engaging fingers surrounding said aperture, said fingers having their free ends terminating in a common plane adjacent to said aperture so that the free ends of all of said fingers may make fastening engagement with a neck of a cooperating stud and each of the fingers of the series surrounding the stud-receiving aperture having one lengthwise edge shorter than the other lengthwise edge as and for the purposes described.

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1,690,663. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Feb. 26, 1925. Serial No. 11,694. 2 Claims. (Cl. 16—4.)



1. A one-piece fastener socket having a continuous upstanding peripheral rectangular wall portion having curved laterally yieldable portions at the corners thereof, a plurality of stud-engaging fingers extending inwardly from said wall at the sides thereof and having at their inner ends, surrounding a stud-receiving aperture, generally curved neck-engaging portions, said corner portions of said wall being more resilient than those portions of the wall located adjacent to the stud-engaging fingers whereby the wall may be distorted and the stud-engaging fingers spread laterally to permit passage of the head of a stud therebetween.

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1,690,664. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1926. Serial No. 81,862. 19 Claims. (Cl. 16—4.)

1. A fastener socket having a laterally yieldable wall adapted to rest directly on and be secured to a socket-carrying support at the same side from which the stud enters and continuing as an inbent extension, said inbent



extension being severed by a plurality of cuts extending substantially to said wall whereby to provide stud-engaging jaws which move laterally with said wall.

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1,690,665. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Apr. 15, 1926, Serial No. 102,348. Renewed Aug. 14, 1928. 9 Claims. (Cl. 16—4.)



1. A fastener socket having a peripheral wall, a plurality of attaching prongs extending upwardly from said wall to secure said socket to a socket-carrying support, a stud-engaging portion extending inwardly and upwardly from the lower edge of said wall to provide a stud-engaging portion surrounding a stud-receiving aperture, said stud-engaging portion severed by a plurality of slits to permit expansion and contraction thereof and a plurality of ears extending inwardly from the upper edge of the peripheral wall to provide a surface above the plane of the stud-engaging portion for engagement with the support to prevent interference between the support and the stud-engaging portion during expansion and contraction thereof.

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1,690,666. SNAP FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed July 23, 1926, Serial No. 124,383. 4 Claims. (Cl. 24—216.)



1. A snap fastener comprising, in combination, a stud member having a head, a neck and a shank portion, a socket for engagement with said stud comprising a back plate and a front plate located at opposite sides of a support, attaching means presented by one of said plates and passing through the other plate to secure both plates to the support and a plurality of contractible and expansible stud-engaging fingers extending from said back plate through an aperture in said front plate thereby to provide a stud-receiving aperture extending entirely through said socket so that the head of the stud may pass entirely through the socket and be exposed at the front face of the support to permit the free ends of the fingers to engage the neck of the stud, said fingers being sufficiently spaced away from the shank of the stud to permit separation of the fastener by an outward pull at any side thereof.

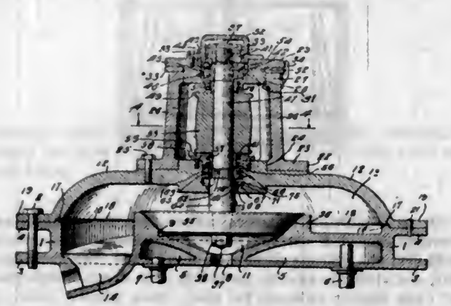
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1,690,667. MINUTE DISINTEGRATION OF SUBSTANCES. FREDERICK JOHN EDWIN CHINA, Esher, England. Continuation of application Serial No. 599,038, filed Nov. 4, 1922, and in Great Britain Mar. 8, 1922. This application filed Dec. 10, 1923. Serial No. 679,748. 42 Claims. (Cl. 83—13.)

1. An apparatus for disintegrating particles, liquid or solid, suspended in a liquid comprising, closely adjusted



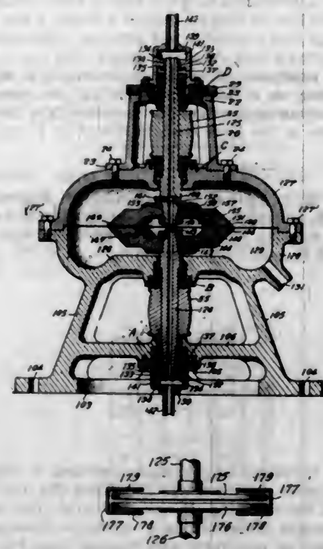
adjacent surfaces relatively movable one past the other at high velocity, means for holding the surfaces fixedly spaced, means for causing such movement of said surfaces, and means for introducing the fluid in a film between said surfaces whereby the particles are disintegrated by reason of the disruptive forces within the film.



26. A method of disintegrating particles suspended in a liquid comprising, subjecting a very thin film of the liquid to the action of closely adjacent non-contacting fixedly spaced surfaces relatively movable one past the other at high velocity, and introducing the particles to be disintegrated on the film itself.

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1,690,668. DISINTEGRATING DEVICE. FREDERICK JOHN EDWIN CHINA, Esher, England. Original application filed Dec. 10, 1923, Serial No. 679,748, and in Great Britain Mar. 8, 1922. Divided and this application filed Mar. 12, 1926. Serial No. 94,349. 55 Claims. (Cl. 83—7.)

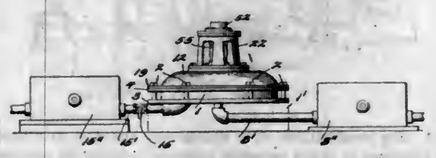


1. An apparatus for disintegrating particles, liquid or solid, comprising, rotatable members having annular working surfaces, means for fixedly spacing said surfaces in very close proximity, shafts upon which the rotatable members are mounted, means for rotating the shafts so that the working surfaces move past each other at high velocity, and means for introducing the liquid with suspended particles therein in a thin film between the working surfaces at their inner peripheries, whereby the particles are disintegrated by reason of the disruptive forces within the film.

39. A method of disintegrating particles suspended in a liquid comprising applying the liquid containing the particles to the peripheries and adjacent surfaces of two closely adjacent, annular members each rotating at high and equal velocity in opposite directions, whereby the liquid is reduced to a thin film and the centrifugal action of said surfaces on the liquid film is substantially neutralized and said liquid film is subjected to the shearing action of the rapidly moving closely spaced working surfaces of the annular members and the particles disintegrated by the disruptive forces within the film itself.

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1,690,669. METHOD AND APPARATUS FOR PRODUCING SUSPENSIONS. FREDERICK JOHN EDWIN CHINA, Esher, England. Original application filed Dec. 10, 1923, Serial No. 679,748, and in Great Britain Mar. 8, 1922. Divided and this application filed Feb. 25, 1928. Serial No. 257,079. 27 Claims. (Cl. 83—13.)

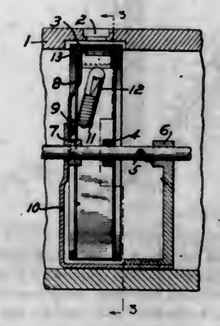


1. A method of disintegrating particles suspended in a liquid comprising, subjecting a very thin film of the liquid with the suspended particles therein to the action of closely adjacent fixedly spaced smooth surfaces relatively movable one past the other at high velocity, and applying pressure to the liquid that is leaving the film in a direction opposite the direction of flow of the liquid, the particles being disintegrated by reason of the disruptive forces within the film itself, which increase with the increase of the relative velocities of the moving surfaces, and decrease with the increase in the thickness of the film.

6. An apparatus for disintegrating particles, liquid or solid, by reason of the disruptive forces in a film of liquid comprising, members having closely and fixedly spaced working surfaces, means for moving said surfaces one past the other at high velocity, and impeding means adjacent the discharge periphery of the working surfaces preventing the free flow of the liquid from between said working surfaces.

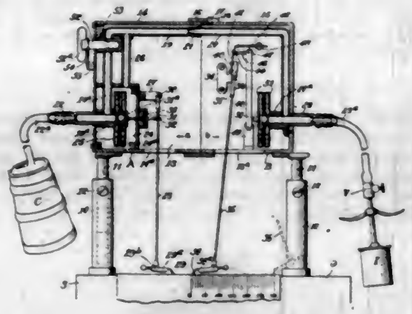
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1,690,670. ILLUMINATED DIAL. LESLIE F. CURTIS, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Oct. 11, 1926. Serial No. 140,743. 10 Claims. (Cl. 116—129.)



1. In a device of the kind described, a movable translucent dial, a stationary source of light, and a stationary line indicator arranged in the path of the rays of light from the source to the underside of the dial.

1,690,671. BLOOD-PRESSURE APPARATUS. CHARLES E. DRESSLER, New York, N. Y. Continuation of application Serial No. 731,743, filed Aug. 13, 1924. This application filed May 9, 1927. Serial No. 189,805. 11 Claims. (Cl. 234—17.)



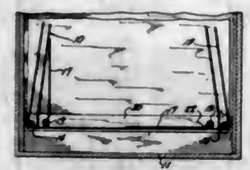
1. The combination of a diaphragm adapted to vibrate in response to blood pressure pulsations acting on one side of said diaphragm against atmospheric pressure on the other side thereof, a second diaphragm adapted to vibrate in response to the same blood pressure pulsations acting on one side of said diaphragm against a pressure greater than atmospheric pressure on the other side of said second diaphragm, and recording means actuated by said diaphragms for simultaneously recording the blood pressure pulsations and the appearance and disappearance of the pulse, the pulsations of which are recorded.

1,690,672. MOISTURE-INDICATING INSTRUMENT FOR WOOD. MATTHEW ELDRIDGE DUNLAP, Madison, Wis., assignor to the Government and the People of the United States of America. Filed Feb. 4, 1928. Serial No. 251,904. 2 Claims. (Cl. 73—24.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



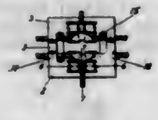
1. An instrument of the character described, a capillary tube, a hygroscopic membrane capable of shrinking and swelling and containing mercury, attached to one end of the capillary tube, a chamois skin pad at the other end of the capillary tube, a viscose cap adapted to hold said pad in place on the capillary tube, a scale adjacent said tube, a support adapted to hermetically engage the capillary tube and the object to be tested, and a housing for said membrane on said support.

1,690,673. CAMERA. HATTIE FORST, Milwaukee, Wis. Filed Mar. 12, 1927. Serial No. 174,926. 2 Claims. (Cl. 95—31.)



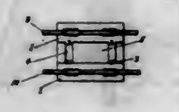
1. In a multiple exposure camera, a pair of shafts revolubly mounted within the rear portion of the camera adjacent the film exposure area, and a thin, flat, rectangular, non-yieldable shutter carried by each shaft, the portion of each shutter adjacent its shaft being slightly offset to permit a flat disposition of the major portion of the shutter.

1,690,674. ELECTRICAL CONDENSER. PRESTON E. GILLING, East Orange, N. J., assignor to Radio Condenser Company, Camden, N. J. Filed Feb. 19, 1925. Serial No. 10,214. 7 Claims. (Cl. 175—41.)



1. For a condenser of the class described, a metallic member acting as a clamping means for the condenser stack and having means for slidably receiving a plurality of conductors, in the same straight line or at an angle as desired.

1,690,675. ELECTRICAL CONDENSER. PRESTON E. GILLING, East Orange, N. J., assignor to Radio Condenser Company, Camden, N. J. Filed Feb. 25, 1925. Serial No. 11,400. 5 Claims. (Cl. 175—41.)



1. For a condenser of the class described, a clamping terminal member having parts for embracing the stack with means for retaining the member in position on the stack and means for attaching a conductor thereto comprising a pair of perforated ears formed from the member so that the center line of the perforations are substantially in alignment.

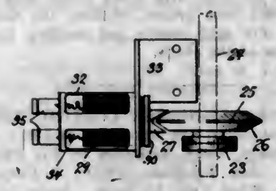
1,690,676. RADIO VACUUM TUBE CONDENSER. PRESTON E. GILLING, Camden, N. J., assignor to Radio Condenser Company, Camden, N. J. Filed July 14, 1927. Serial No. 205,550. 10 Claims. (Cl. 250—27.5.)

5. A device to slip over the terminals of a radio vacuum tube, consisting of a plate having openings therein for the tube terminals, at least one condenser assembled on the plate and means connected with the condenser for completing electrical contact with a pair of tube terminals when the tube terminals are pushed through the holes in the plate.



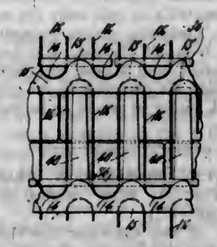


1,690,677. MICROSCOPE. ROBERT G. GUTHRIE, Chicago, Ill., assignor to E. Leitz, Inc., a Corporation of New York. Filed July 15, 1927. Serial No. 205,862. 2 Claims. (Cl. 88—39.)



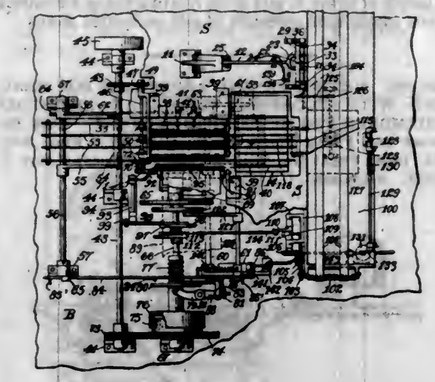
1. In a microscope in combination a fine adjustment mechanism for focussing purposes including a shaft, a member secured to said shaft and comprising an operating knob and a wheel, a bracket secured to said microscope, an electromagnet mounted for movement into operative relation to the said wheel, means on said magnet adapted to engage said wheel, and means for energizing said electromagnet to cause it to be attracted by the wheel to lock it and the said shaft against rotary movement.

1,690,678. ELECTRICAL RESISTANCE FURNACE. ALBERT J. HANSON, Arlington, Mass., assignor to American Metallurgical Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 23, 1924. Serial No. 687,913. Renewed May 7, 1927. 13 Claims. (Cl. 266—1.5.)



1. In an electric resistance furnace, in combination, a chamber wall, a resistor section having a plurality of bends at two of the opposite sides thereof, insulating members projecting from the wall on opposite sides of the resistor section and having spaced apart recesses in adjacent surfaces, and means cooperating with said bends for retaining them in the recesses and the resistor section in place upon the chamber wall.

1,690,679. AUTOMATIC WEIGHING MECHANISM. FRANK S. HEBDEN, Passaic, N. J., assignor to Merrick Scale Mfg. Company, Passaic, N. J., a Corporation of New Jersey. Filed Feb. 25, 1927. Serial No. 170,790. 52 Claims. (Cl. 265—9.)

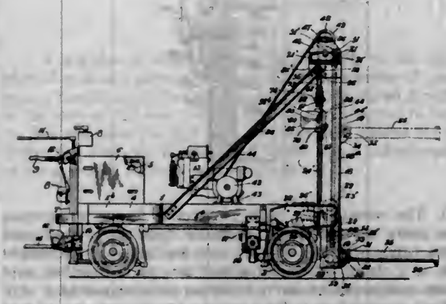


1. The combination with weighing mechanism, of an article support, article transferring means operative to lift an article from said support and transport the article to and deposit it on the weighing mechanism and return the same to initial position, and means to render said article transfering means operative and render the same inoperative when returned to initial position.

1,690,680. COMPOSITION FOR POLISHING SURFACES COMPOSED OF CELLULOSE-ESTER COMPOSITIONS. JOSEPH E. HIRSH, Brooklyn, and ARTHUR D. ROBSON, New York, N. Y., assignors to Standard Varnish Works, New York, N. Y., a Corporation of New York. Filed Mar. 10, 1927. Serial No. 174,405. 5 Claims. (Cl. 51—280.)

1. An improved levelling, smoothing, and polishing composition comprising a cellulose ester softening agent, an inert diluent or lubricant, and an abrasive.

1,690,681. INDUSTRIAL TRUCK. AMIEL G. HUTZLEY, Warren, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 24, 1924. Serial No. 722,125. 28 Claims. (Cl. 254—174.)

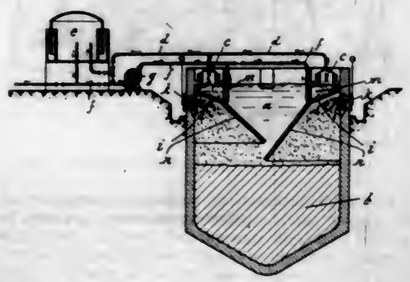


1. In apparatus of the class described, the combination of a support, a load handling member movably supported thereon, a drum rotatably mounted on said support, means

for rotating said drum in either direction, a flexible member adapted to wind on and off said drum at one end and operatively engaging said load handling member to move it in one or more directions, means connecting the opposite end of said flexible member to said support and arranged to take up slack occurring therein at any time, and means interposed between said connecting means and the supply of power to said drum rotating means for cutting off said supply upon operation of said connecting means.

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1,690,682. METHOD OF AND APPARATUS FOR DEALING WITH FLOATING SLUDGE IN DIGESTION CHAMBERS FOR SEWAGE TREATMENT. KARL IMHOFF and FRANZ FRIES, Essen, Germany. Filed Aug. 25, 1924, Serial No. 734,009, and in Germany May 7, 1924. 5 Claims. (Cl. 210—2.)



1. A method of dealing with floating sludge in digestion chambers for sewage treatment, consisting in intentionally covering the floating sludge below the water level in the digestion chamber thereby keeping the same continuously submerged until its being eventually let-off, and allowing the gases ascending from the digestion chamber to escape to the water level directly through said covering, substantially as set forth.

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1,690,683. CLAMP FOR ELECTRIC SOCKETS. GUSTAF A. JOHNSON and FRANK E. JOHNSON, New Bedford, Mass., assignors to John I. Paulding, Inc., New Bedford, Mass., a Corporation of Massachusetts. Filed May 6, 1926. Serial No. 107,123. 10 Claims. (Cl. 173—362.)



1. The combination with an electric fixture comprising two parts having flanged engaging ends and one of said parts being provided with an opening adjacent its flanged end, of a clamp for clamping said two parts together, said clamp comprising an outer clamping member provided with oblique clamping ends for engaging the flanges of said two parts, one of said ends passing through the said opening in one of said parts and being adapted to engage the inner face of the wall of said part, an inner member engaging the inner faces of said parts and having one end turned to enter the said opening and to bear against the oblique portion of the end of the outer member within said opening and means connecting said outer and inner members to draw them together into clamping relation.

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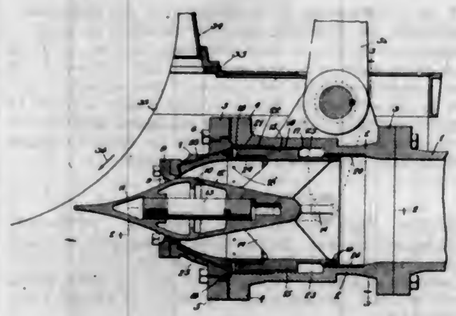
1,690,684. CYLINDRICAL MEMBER AND METHOD OF MAKING THE SAME. WALLACE C. JOHNSON, New York, N. Y. Filed July 24, 1924. Serial No. 728,038. 3 Claims. (Cl. 29—188.)



1. The method of making a cylindrical member which consists in forming a groove longitudinally of a cylinder, covering said cylinder with sheet metal with the edges thereof opposite said groove, bending the edges of the sheet metal into said groove and welding together the adjacent edges of the sheet.

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1,690,685. NEEDLE-NOZZLE CONSTRUCTION. LEOPOLD M. KARNASCH, San Francisco, and ELY C. HUTCHINSON, Oakland, Calif., assignors to The Felton Water Wheel Co., San Francisco, Calif., a Corporation of California. Filed Aug. 16, 1926. Serial No. 129,638. 6 Claims. (Cl. 253—24.)



1. Hydraulic control apparatus, comprising a nozzle body, a needle operatable in said body for controlling discharge therefrom, operating means connected with said needle extending laterally through said body operatable from the side thereof, and means cooperating with said needle and said body for distributing the pressure therein for balancing said needle in whole or in part at all positions of operation.

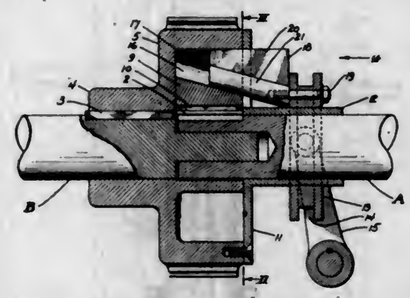
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1,690,686. CLUTCH. FREDERICK W. KRAFFT, Berkeley, Calif. Filed Feb. 11, 1926. Serial No. 87,540. 2 Claims. (Cl. 192—71.)

1. In a device of the character described, a driving shaft member having a plurality of teeth formed on its exterior surface, a clutch member surrounding the shaft member and freely turnable with relation thereto, a plurality of jaw members radially movable in the clutch member, an end plate on the clutch securing the jaw members against longitudinal movement, said end plate having a plurality of openings formed therein, and each jaw member being longitudinally slotted and having a pair of inclined shoulders formed therein extending from end to end, a shifting collar longitudinally movable with relation to the driving shaft member, jaw guiding members



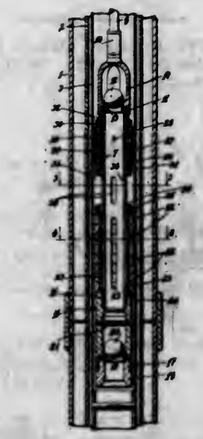
secured to the shifting collar, said jaw guiding members extending through the openings in the end plate and engaging the inclined shoulders in the jaw members to im-



part a radial movement to the jaw members in an outward or inward direction, and teeth on each jaw member engageable with the teeth on the driving shaft member.

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1,690,687. PUMP PLUNGER. REES H. LEMMON, Long Beach, Calif. Filed Mar. 22, 1926. Serial No. 96,485. 3 Claims. (Cl. 103—225.)



1. A pump plunger comprising a tube, a working valve secured to the upper end of the tube, a working valve secured to the lower end of the said tube, a plurality of packing rings of greater interior diameter than the exterior diameter of the said tube mounted on the tube, a retaining collar screw-threaded on the said tube and engaging the said rings, slots formed in the said tube behind the said rings for admitting fluid pressure outward to the space provided by the rings of the tube for expanding the said rings, a second packing assembly spaced from and above the said packing rings, and a slotted section of the said tube intermediate the said packing assemblies, placing the space between said assemblies in communication with the bore of said plunger.

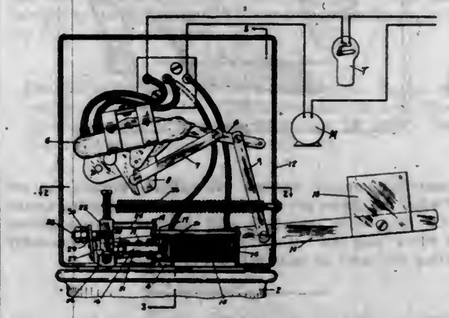
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1,690,688. COMPOUND FOR BREAD MAKING. ERNEST E. LINDSEY, San Francisco, Calif. Filed Mar. 23, 1927. Serial No. 177,843. 4 Claims. (Cl. 99—11.)

1. A bread-making compound consisting of cheese, dissolved with the seasoning and shortening ingredients of bread, mixed at a temperature sufficient to bring about sterilization and dissolution, whereby to form a semi-solid or paste-like product, said compound having good keeping qualities and being capable of forming a cheese-flavored bread when combined with flour, yeast, and liquid.

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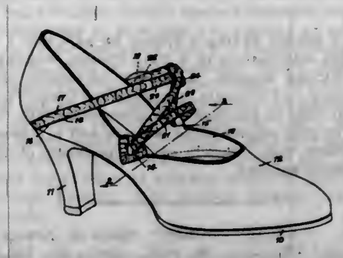
1,690,689. PRESSURE-ACTUATED ELECTRIC-CIRCUIT CONTROL. IRA E. MCCABE, Chicago, Ill. Filed Apr. 12, 1926. Serial No. 101,589. 4 Claims. (Cl. 200—144.)



1. In a pressure operated electric circuit control, an expansible and contractible element, an electric switch in the circuit to be controlled, means actuated by the expansible and contractible element to operate the switch to open and close the circuit, a pressure responsive electric conducting element of varying resistance in the circuit at one side of the switch, and means actuated by the movement of the switch operating means to vary the pressure upon said element in proportion to the direction and amount of movement of said switch operating means.

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1,690,690. SHOE. CHARLES MILLER, Long Island City, N. Y. Filed Nov. 10, 1926. Serial No. 147,462. 2 Claims. (Cl. 36—50.)



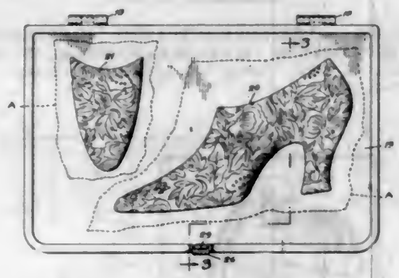
1. A low shoe or slipper having in proximity to the upper edge of each side portion of its upper a like number of openings, a flexible strap having one end thereof secured directly to the shoe at the heel portion thereof and adapted to have its free end pass through said openings, and means for securing the free end of said strap to the upper subsequently to being passed through said openings.

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1,690,691. PATTERN-DISPLAYING DEVICE. CHARLES MILLER, Long Island City, N. Y. Filed Dec. 18, 1926. Serial No. 155,752. 4 Claims. (Cl. 35—17.)

1. A pattern displaying device, comprising a base plate having on one of its faces in bas-relief a portion of the figure of a given object for receiving thereon a removable sheet of the material of which at least a part of the object is to be made, a cover plate for being removably disposed on the base plate, said cover plate having a cutout positioned

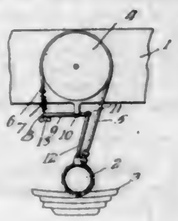
for receiving the figure and the cut-out being of a shape conforming to the contour of the figure of the base plate, the cut-out also being of slightly larger area than the contour of the figure whereby the figure and the portion of the sheet



of material imposed thereon will extend through the cut out when the plates are closed together, and coacting means on the face of the base plate and the cover plate adjacent the figure and the cut-out for stretching and removably holding the sheet of material taut on the figure.

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1,690,692. SHOCK ABSORBER. FRANK C. MOCK, Chicago, Ill., assignor to Stromberg Research Corporation, Chicago, Ill., a Corporation of Illinois. Filed Aug. 1, 1924. Serial No. 729,459. 21 Claims. (Cl. 267—9.)

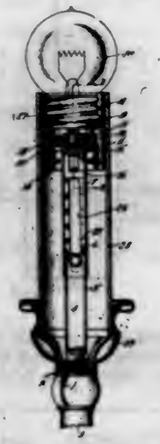


2. In a vehicle having a frame, an axle and a vehicle spring, the combination of a rigid friction element and a flexible friction element, means for controlling the pressure between said elements to increase the friction for recoil movement only of the spring in accordance with the position of the axle above neutral position and to release pressure between said elements for all positions of the axle below neutral position.

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1,690,693. CANDLE SOCKET. KARL K. NIELSEN, Chicago, Ill. Filed Jan. 28, 1927. Serial No. 164,165. 8 Claims. (Cl. 173—358.)

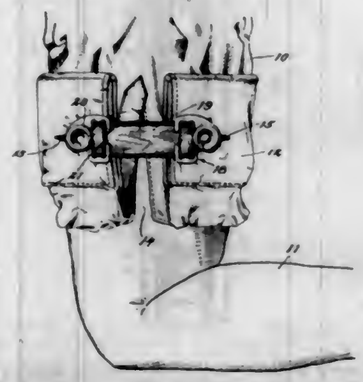
1. An electric candle socket including a support having a top and a pair of shanks supporting the top, an intermediate insulator seated on the said top, a socket shell having its base seated on the intermediate insulator, an insulator above the said intermediate insulator disposed within and seated on the base of the socket shell and a lower insulator underhanging the top of the support; a wire terminal secured to the socket shell and having a downwardly extending portion, a second wire terminal having a part seated on the upper insulator and having a downwardly extending portion; there being alined perforations in the three insulators, the seating part of the second wire terminal, the base of the socket shell and the support top; and a fastening member extending through the said alined perforations and headed at each end and approximately fitting the perforations of the three insulators but smaller in diameter than the perforations in the support top and in the socket shell base; the three insulators having two sets of alined lateral notches through which sets of notches the downwardly extending portions of the wire terminals respectively extend, and the lower insulator having shoulder



formations engaging one shank of the support to prevent rotation of that insulator with respect to the support about the fastening member.

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1,690,694. SLEEVE HOLDER. HARRY P. NISSEN, Oakland, Calif. Filed Nov. 22, 1926. Serial No. 149,968. 3 Claims. (Cl. 24—73.)



1. In a device of the character described, a flat member having a hook at one end adapted to releasably connect with a cuff link, the other end of said member being formed with a pair of spaced slots disposed transversely of the hooked end, the end of said member adjacent the slots being cut away to provide an opening communicating with the outermost slot.

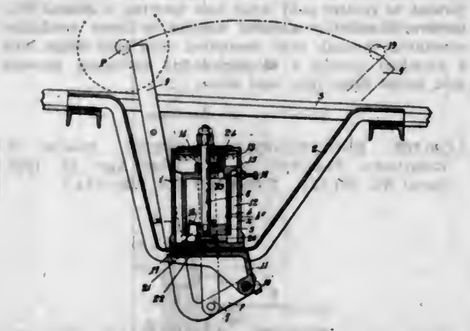
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1,690,695. APPARATUS FOR RETARDING WAGONS, TUBS, AND THE LIKE. BERTRAM NORTON, Claverley, near Wolverhampton, England. Filed Sept. 17, 1927, Serial No. 220,239, and in Great Britain Jan. 29, 1927. 8 Claims. (Cl. 104—256.)

1. Apparatus for retarding wagons or tubs comprising in combination a cataract having a cylinder containing oil or other liquid, a piston working in the cylinder, means for restricting the passage of the liquid from the high pressure side of the piston whereby the liquid is permitted to escape under restraint, and a jutting impact arm or member connected to the piston and adapted to project into retarding



position in the path of a vehicle passing thereover and to move forwardly clear of the vehicle to non-retarding position subject to a reluctant movement of the cataract ap-



paratus upon a propellant force acting against the impact arm or member, and means for causing the impact arm or member to return to retarding position.

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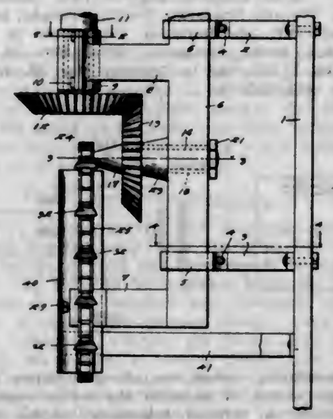
1,690,696. RUBBER HEEL. HARRY G. NORWOOD, Baltimore, Md., assignor to A. D. T. Libby, Newark, N. J. Filed Feb. 10, 1927. Serial No. 167,347. 8 Claims. (Cl. 36—35.)



1. In a flexible heel having a rim portion to fit on the heel lift, means for increasing the resilience of the heel comprising a central arch and an annular arch between the rim and the central arch, said central arch being proportioned so as to have somewhat more resilience than the outer arch.

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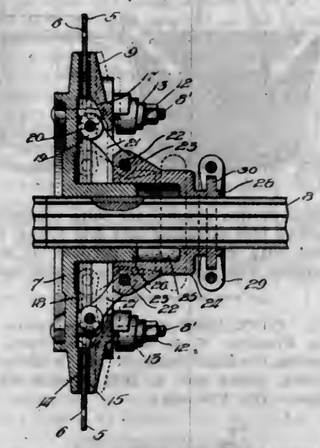
1,690,697. MORTISING MACHINE. CARL PALMU, Duluth, Minn. Filed May 11, 1927. Serial No. 190,472. 1 Claim. (Cl. 144—72.)



In a mortising machine, a vertically movable bar, supporting means therefor, parallel spaced lateral extensions of said bar, bearings at the free ends of said extensions, said bearings being in a common plane, a driven shaft rotatably mounted on said arm and projecting laterally thereof between said lateral extensions and terminating in the common plane of the ends thereof, a sprocket carried at the outer end of said shaft to rotate therewith, a stem adjustable vertically within the bearing of one lateral extension of said arm and parallel therewith, a second sprocket rotatably supported at the end of said stem in alignment with the first mentioned sprocket, an endless chain extending over said sprockets, a drive shaft arranged in the bearing at one end of one of said extensions from the bar in the plane of said endless chain, and cutter blades carried by certain links of said chain, substantially as and for the purpose set forth.

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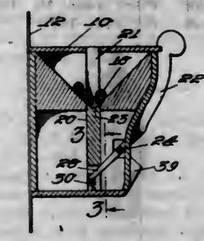
1,690,698. CLUTCH. WILLIAM J. PEARMAIN, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Jan. 28, 1927. Serial No. 164,144. 3 Claims. (Cl. 192—68.)



1. In a clutch of the class described, an intermediate disk, a fixed and a floating friction member arranged respectively on opposite sides of said disk and adapted to engage the same, one of said members having a frusto-conical surface adjacent the other of said members, rollers intermediate said frusto-conical surface of the floating member and the adjacent surface of the fixed member and adapted when moved outwardly to force said members apart, an axially movable sleeve, links connecting said rollers to said sleeve, the construction being such that said links may be moved past their dead center to lock the clutch in open position, and springs pressing said floating member toward the fixed member.

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1,690,699. CIGARETTE AND MATCH DISPENSER. ERNST PETERSON, Rockford, Ill. Filed July 22, 1926. Serial No. 124,114. 1 Claim. (Cl. 312—79.)

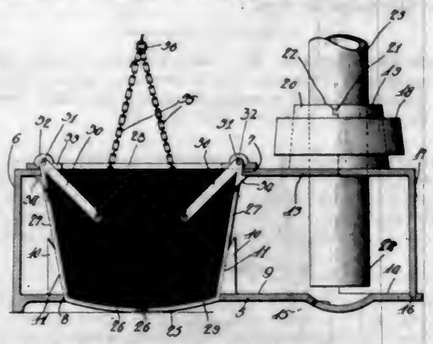


In a combined cigarette and match dispenser, a receptacle for the objects to be dispensed, a pair of ejector plates passing upwardly through said receptacle to dispense two

objects at one ejecting movement, and a forked handle for moving both of said ejecting means, said handle being pivoted on the interior wall of the casing and having its manually operated end positioned alongside the outer wall of the casing, together with springs for returning the ejector members to original position after an ejecting movement, and latch means for locking the handle in object ejecting position against the tension of said spring.

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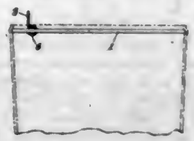
1,690,700. BILGE SUCTION STRAINER FOR SHIPS. HEINRICH A. W. PETERSEN, Gary, Ind. Filed Sept. 12, 1923. Serial No. 662,181. 9 Claims. (Cl. 210—170.)



1. A bilge suction strainer for ships comprising a casing, a suction pipe extending into said casing, and means co-operable with interengaging portions of said casing for detachably securing said casing to said suction pipe.

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1,690,701. CONTAINER CLOSURE. JAMES D. REIFSNYDER, Flushing, N. Y., assignor to Tulip Container Corporation, College Point, N. Y., a Corporation of New York. Filed Apr. 5, 1927. Serial No. 181,018. 2 Claims. (Cl. 229—43.)



1. A container closure comprising a disc of fibrous material having a metallic lifter provided with an eye at one end which encircles a portion of said disc at a point removed from but closely adjacent to the edge of the disc, said eye and cooperating disc portion forming a hinged connection between said disc and said lifter wherein the eye encircled portion acts as the hinge pin about which the lifter is adapted to be freely moved pivotally.

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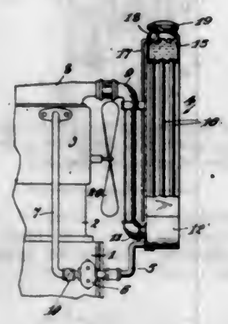
1,690,702. SPARK PLUG. LOUIS ROTELLA, Montreal, Quebec, Canada. Filed June 10, 1925. Serial No. 36,246. 1 Claim. (Cl. 123—169.)



In a spark plug, a dome of translucent material having a circular bore through the upper wall thereof and a metal filler fixedly secured in said bore and having a central threaded orifice therethrough, a threaded sleeve frictionally secured on the lower portion of said dome and extending therefrom and externally threaded, a shell formed to receive said dome and forming a ground connection, insulating material therein, a lower conductor extending through said insulation into said dome, and a terminal having a conductor rod extending through said metal filler into said dome.

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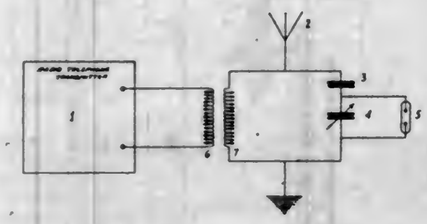
1,690,703. ENGINE-COOLING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Apr. 19, 1927. Serial No. 184,877. 7 Claims. (Cl. 123—174.)



1. In combination, a force feed circulating system for cooling variable duty engines by heating water to absorb heat of the engine under certain conditions and by also boiling it to produce large volumes of steam under other conditions, means for cooling the water and condensing the steam, including an air cooled, water-filled radiator of the upright type having passages of great radiating capacity connected at the bottom through a lower chamber of small radiating capacity and at the top by an upper chamber whereby said passages are submerged; said force feed system intaking water from and discharging water and steam to said lower chamber, and means enclosing a body of water adjacent said discharge and intake of the force feed system adapted to restrict thermo-circulation between said body and the bottoms of said radiating passages.

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1,690,704. MODULATION-INDICATING ARRANGEMENT. WALTER SCHAFFER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Filed Feb. 24, 1925, Serial No. 11,021, and in Germany Mar. 15, 1924. 5 Claims. (Cl. 250—6.)

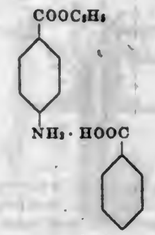


1. A modulating system comprising a source of carrier energy, means to modulate the carrier energy, an output circuit, a variable impedance coupled thereto having an adjustable setting means, and an indicating means uniquely responsive to an intensity of modulation determined by the adjustment of the setting means.



1,690,705. BENZOIC ACID SALT OF AMINO BENZOIC ESTERS. HERMAN SEYDEL, Jersey City, N. J. Filed Apr. 5, 1927. Serial No. 181,269. 6 Claims. (Cl. 260—105.)

6. As a new product, the substance having the structural formula—




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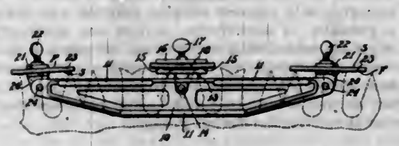
1,690,706. TOOTHBRUSH. JACOB SILBERSTANG, New York, N. Y., assignor of one-half to Jack I. Saks, New York, N. Y. Filed Feb. 14, 1925. Serial No. 9,257. 5 Claims. (Cl. 15—172.)



1. The combination of a handle having an end portion providing a supporting means, a pair of members rotatably mounted on said end portion, each member being provided with a row of bristle tufts, said tufts being graduated in lengths from one end to the other of the member whereby said member may be rotated to effect a brushing surface of concave or convex contour.

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1,690,707. SAW JOINTER. OLIVER ST. CLAIR, Indianapolis, Ind., and BAZEL R. WATSON, Snohomish, Wash., assignors to E. C. Atkins & Company, Indianapolis, Ind., a Corporation of Indiana. Filed Sept. 16, 1926. Serial No. 135,737. 2 Claims. (Cl. 76—47.)



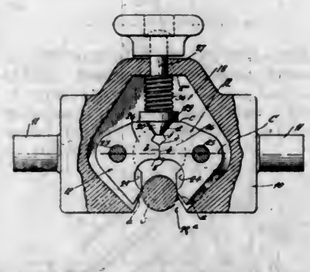
1. A saw jointer comprising a rigid main body, a file holder laterally adjustable on the main body, and two file-shoe dogs one mounted at each end of the main body and angularly adjustable thereon, the adjustment of the file holder on the main body being independent of the dogs, each of said dogs having a jaw formed to receive and hold a file-shoe element.

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1,690,708. COMPOSITION OF MATTER AND MOLD MADE THEREFROM AND METHOD OF CASTING POTTERY IN THE MOLD. JOHN D. WIGGIN, Montclair, and MATHIAS M. REMMES, Belleville, N. J., assignors to H. B. Wiggin's Sons Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Oct. 29, 1924. Serial No. 746,666. 30 Claims. (Cl. 25—156.)

25. In the method of casting pottery, the steps including preparing a slip containing a soluble carbonate, preparing a mold the material of which comprises plaster of Paris and a substance which will prevent a reaction between the carbonate in the slip and the calcium sulphate in the plaster of Paris, casting the slip in the mold, removing the cast, and firing it.

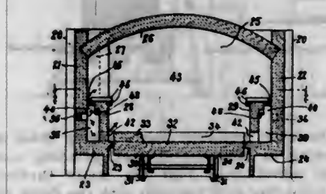
1,690,709. ROD ELEVATOR. WILLIAM WEBSTER WILSON, Los Angeles, Calif. Filed Nov. 6, 1924. Serial No. 748,004. 3 Claims. (Cl. 294—91.)



1. In an elevator, the combination of a body member, two opposed jaws pivotally mounted on the body member and movable on their pivotal centers to open and close the elevator whereby rods may be inserted in and withdrawn from the elevator, a plunger slidably mounted on the body member, spring means adapted to urge the plunger in one direction to engage and hold the jaws in selected position, a handle on the plunger and capable of limited longitudinal movement with respect thereto, said spring means being adapted to hold the handle and plunger yieldably against relative movement, said handle being adapted to be actuated to slide the plunger in the opposite direction against the action of said spring and thereby to release it from holding engagement with the jaws; and closing movement of said jaws being adapted to slide the plunger through the handle and out of holding position against action of said spring.

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1,690,710. FURNACE. GEORGE F. BEACH, Philadelphia, Pa., assignor to F. J. Ryan & Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 4, 1926. Serial No. 113,634. 11 Claims. (Cl. 263—43.)



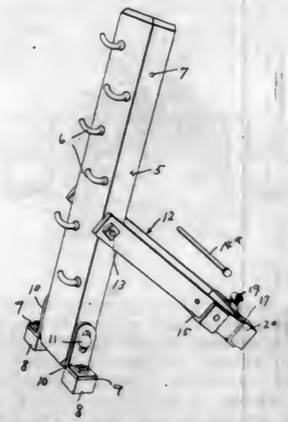
1. In a furnace of the character described, a casing forming a heating chamber, a heat distributing chamber within said casing having upper and lower heat vents communicating with the heating chamber, means for supplying heat to said distributing chamber and movable means located at the outlet of the upper heat vent for adjusting the size of the upper heat vent.

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1,690,711. ARTICLE SUPPORT. EDWARD C. BLODGETT, Kirksville, Mo. Filed Aug. 19, 1927. Serial No. 214,106. 1 Claim. (Cl. 211—123.)

As a new product of manufacture, an article support of the class described, comprising a sectional body, one section being provided with suspension elements, brackets adjustably connected with said one section, abutments carried by said brackets, said other section being in the form of a substantially U-shaped frame, the arms of which are adapted to straddle the longitudinal edge portions

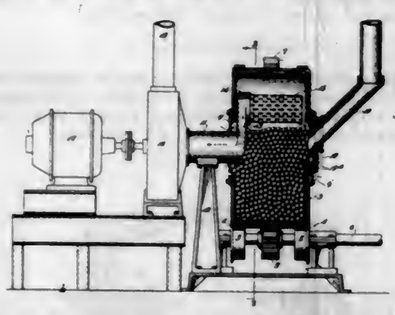
of said first-named section, and a bight portion being swingable over one end of said first-named section, a stop carried by said first named section, a plate also carried



by the bight portion of said swingable section, a resilient catch carried by said plate, and abutments also carried by said plate.

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1,690,712. PULVERIZING MILL. LOUIS C. BONNOT, Louisville, Ohio, assignor to The Bonnot Company, Canton, Ohio, a Corporation of Ohio. Filed May 23, 1925. Serial No. 32,347. 2 Claims. (Cl. 83—9.)

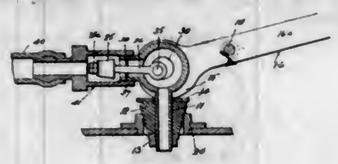


1. A pulverizing mill including a rotary drum with a central opening in each end thereof, grinding media as balls, filling substantially half the cavity thereof, feed means for delivering raw material into the drum through one end opening thereof, and suction exhaust means including a collecting receptacle extending longitudinally and substantially across the upper region of the drum and a radially extending flat hollow support adjacent the other end of the drum providing communication from the collecting receptacle through the other central end opening for withdrawing dust from the upper region of the drum through the other end opening thereof, there being air inlet ports in the ends around the feed and exhaust means, and the middle region of the drum being without impediment for the free movement of the grinding media therethrough.

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1,690,713. PRESSURE-TEST APPARATUS. WILLIS J. BOYLE, Jr., Los Angeles, Calif., assignor to Boyle Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Apr. 25, 1927. Serial No. 186,312. 3 Claims. (Cl. 284—17.)

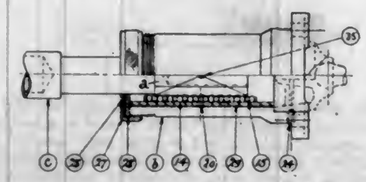
1. In a pressure testing device, the combination of a hollow body having a pressure inlet opening and a pressure outlet opening, an external and expansible gasket associated with one opening and adapted to be inserted in an aperture of the article to be tested, a valve associated with the other opening, an operating handle mounted on



the body, and connective means whereby movement of the operating handle simultaneously expands said gasket tightly in such aperture and opens said valve.

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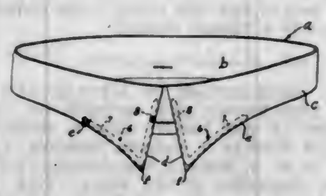
1,690,714. SLIP JOINT. EDWARD I. BRADDOCK, Cleveland, Ohio; Robert H. Montgomery executor of said Braddock, deceased. Filed Mar. 28, 1924. Serial No. 702,626. 3 Claims. (Cl. 64—89.)



1. A slip joint comprising a shaft having a male member provided with a plurality of substantially flat longitudinally extended wearing surfaces, a female member co-operating wtih said male member and having substantially flat wearing surfaces on its interior extended longitudinally thereof and co-operating with tne flat wearing surfaces of the male member, and antifriction units insertible into and removable from said female member and interposed between and engaging said opposed wearing surfaces and comprising a plurality of antifriction devices and substantially flat cages by which said antifriction devices are carried and retained in operative relation, said cages comprising members connected together and between which said antifriction devices are located and having openings through which said antifriction devices project.

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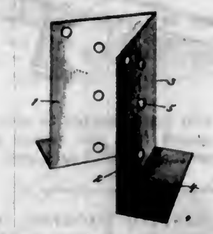
1,690,715. COLLAR ATTACHMENT. CHARLES BRENESSEL, Los Angeles, Calif. Filed Sept. 12, 1927. Serial No. 218,899. Renewed Sept. 17, 1928. 1 Claim. (Cl. 2—132.)



A collar attachment of the character described comprising two connected stiff legs forming a V-shaped body, the body forming at the juncture of said legs a pointed penetrating member and the legs forming at their free ends other pointed penetrating members, and the penetrating members terminated at their bases by shoulders.



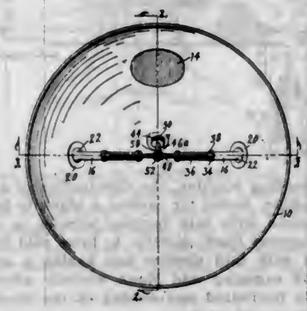
1,690,716. PLANT PROTECTOR. NICHOLAS M. BRISBOIS, Stockton, Calif., assignor to National Paper Products Company, San Francisco, Calif., a Corporation of California. Filed Aug. 3, 1926. Serial No. 126,788. 2 Claims. (Cl. 47—30.)



1. A plant protector comprising a pair of heavy paper wings connected for relative pivotal movement along one side edge of each wing, and anchor flaps connected to the bottom edges of the wings.

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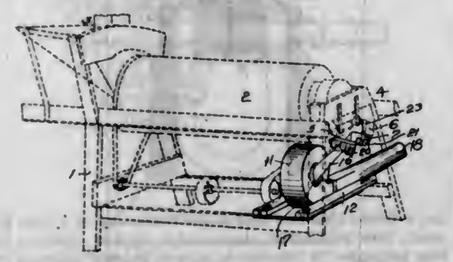
1,690,717. THERAPEUTIC LAMP. LLOYD BROWN, Des Moines, Iowa. Filed Aug. 18, 1927. Serial No. 213,787. 5 Claims. (Cl. 174—177.)



1. In a lamp of the class described, a support, adapted to serve also as a protective shield, a handle thereon, a pair of carbon holders mounted on the opposite side of said support for adjustably holding carbons at an acute angle to each other and meaus actuatable from a position adjacent to the handle and on the handle side of the support and shield for adjusting said holders toward or from each other.

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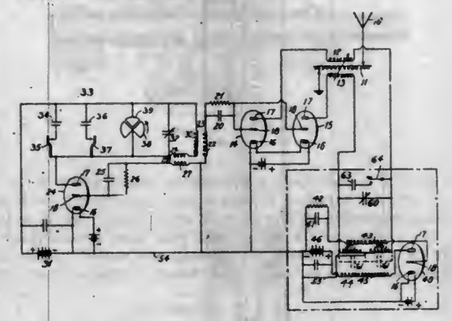
1,690,718. SEED-TREATING MACHINE. CLAUDE C. CALKINS, Spokane, Wash. Filed Sept. 12, 1924. Serial No. 737,284. 2 Claims. (Cl. 83—28.)



1. In a seed treating machine having a pair of angularly disposed discharge spouts, the combination of a fan blower and its intake pipe, a pneumatic head having a sleeve telescoping with said pipe, a pair of angularly disposed intake boxes integral with said sleeve and forming part of the hend, said boxes having open inner faces for engagement with the outer walls of said spouts, flanges on said inner faces, and means for attaching said boxes to said spouts.

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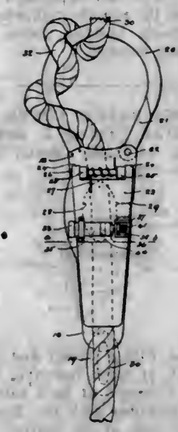
1,690,719. METHOD AND MEANS FOR SECRET RADIO-SIGNALING. EMORY LEON CHAFFEE, Belmont, and ELLISON S. PURINGTON, Boston, Mass., assignors to John Hays Hammond, jr., Gloucester, Mass. Filed Mar. 31, 1922, Serial No. 548,513. Renewed Mar. 16, 1926. 29 Claims. (Cl. 250—10.)



1. The method of producing radiant energy for the transmission of intelligence which comprises generating a pair of alternating currents of unlike frequencies, wobbling said currents similarly so that the frequency difference thereof normally remains substantially constant, and transmitting a message by varying said difference frequency.

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1,690,720. SAFETY BELT. RALPH LE ROY COSBY, Richmond, Va. Filed May 26, 1927. Serial No. 194,403. 2 Claims. (Cl. 227—28.)

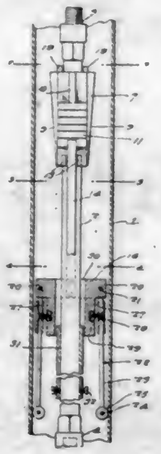


1. A safety-belt rope-clamp consisting of a plate adapted to be attached to a belt, and having an opening through which a rope may be passed from the back to the front of the plate, and also having mounted at one edge of it a notched lug; a second plate hinged to the first plate above the opening in the latter and adapted to be clamped down upon the rope passed between the two plates, and having mounted upon it a sliding bar adapted to be slid into engagement with the notched lug on the first plate to hold

the two plates in clamping position on the rope; and means for releasing the sliding bar from engagement with the notched lug to relieve the clamping pressure of the plates upon the rope.

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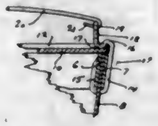
1,690,721. ROD GUIDE AND PROTECTOR. STEPHEN V. DILLON, Tulsa, Okla., assignor to Smith Separator Company, a Corporation of Oklahoma. Filed May 7, 1926. Serial No. 107,478. 3 Claims. (Cl. 255—1.)



1. In combination, a well tube, a pump operating rod reciprocating within the tube, an actuating member detachably mounted on the rod and adapted when the rod is moved in a certain way, to slide downwardly on the rod, a collar in the tube and surrounding the rod, friction means on the collar bearing against the tube for supporting the collar therein, slip links connected to the collar, and slips connected to the links and adapted to be forced against the tube by the actuating member when the latter slides downwardly on the rod, the rod, when the actuating member is in anchored position, being freely slidable through the actuating member.

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1,690,722. COMBINED BASKET COVER AND HANDLE-FASTENING MEANS. COLON J. DUDLEY, Hamburg, N. Y. Filed Aug. 24, 1926. Serial No. 131,273. 3 Claims. (Cl. 217—125.)

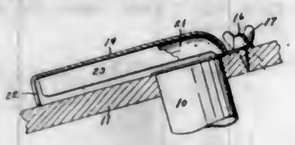


1. The combination with a basket and cover, the cover having a central slat, of cover fastening means, comprising a wire element arranged at each side of the basket, each element being provided with two Z-shaped portions, one arranged on each side of the central slat and engaging the cover, and a handle for connecting the fastening elements together.

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1,690,723. DEFLECTOR FOR MOTOR-VEHICLE HOT-AIR HEATERS. MILTON S. FRANKLE, Des Moines, Iowa. Filed Oct. 7, 1927. Serial No. 224,608. 5 Claims. (Cl. 98—2.)

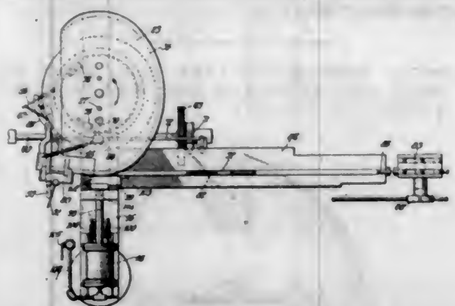
1. The combination with a motor vehicle having a body member and a heater pipe adapted to discharge heated currents of air therethrough, of a deflector plate arranged substantially parallel with said body member and pivoted on an axis spaced from and substantially parallel with the



axis of said pipe, said plate adapted to be arranged with its body portion spaced from the vehicle body member and extending across the mouth of said pipe.

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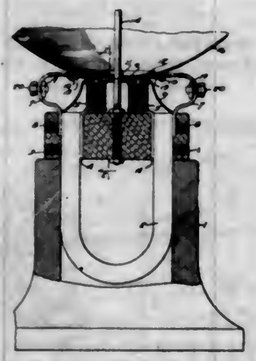
1,690,724. TUBE-BENDING MACHINE. CLARENCE H. FREDERICK, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Feb. 10, 1923. Serial No. 618,313. 9 Claims. (Cl. 153—40.)



8. In a bending machine, the combination of a movable forming member, means for causing a blank to be bent to move in unison with said forming member, a relatively stationary presser block operable to force said blank into engagement with said member and having a soft metal face slidably engaging said blank whereby advancing of the blank is facilitated and scoring of the blank by the presser block is prevented.

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1,690,725. ELECTROMAGNETIC SOUND-REPRODUCING APPARATUS. EMIL F. HOLINGER, New York, N. Y., assignor of one-half to E. Chase Crowley, New York, N. Y. Filed Apr. 23, 1927. Serial No. 185,994. 14 Claims. (Cl. 179—115.)



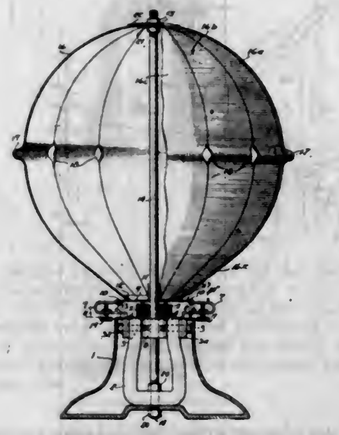
1. In a sound reproducing device suitable for use in radio apparatus having an electromagnet, the coils of which are adapted to be included in the reproducing circuit,



the combination, with the above recited apparatus of a hollow, substantially globular member made of thin, resonant material having an opening in its side, and an armature for said electromagnet fastened to said globular member.

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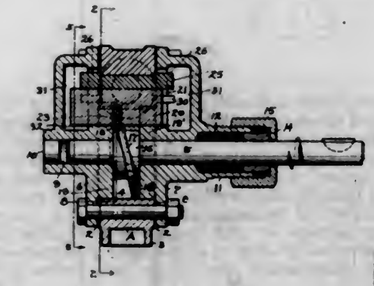
1,690,726. SOUND-REPRODUCING DEVICE. EMIL F. HOLINGER, New York, N. Y., assignor of one-half to E. Chase Crowley, New York, N. Y. Filed June 17, 1927. Serial No. 199,504. 20 Claims. (Cl. 179—115.)



1. A sound reproducing device comprising, in combination, a hollow member of substantially pear shape having one portion in the form of a segment of a sphere, and the rest substantially cone shaped, both made of thin, resonant material, and means for imparting sound vibrations to said member attached to the smaller end thereof.

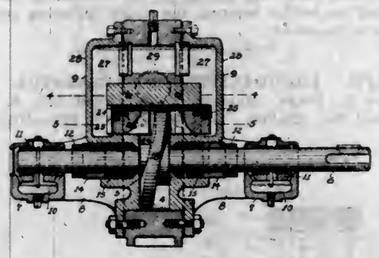
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1,690,727. ROTARY PUMP. JOSEPH F. JAWOROWSKI, Cleveland, Ohio, assignor, by mesne assignments, to Joseph F. Jaworowski and Samuel Dettelbach, Cleveland, Ohio. Filed Feb. 13, 1925. Serial No. 8,912. 1 Claim. (Cl. 103—139.)



A rotary pump, comprising a body having a round working chamber, a blade transversely slidable of said chamber, a rotary member having an annular rib engaging said blade and dividing said chamber obliquely into separate segmental spaces, and a gib for said blade removably connected to said body.

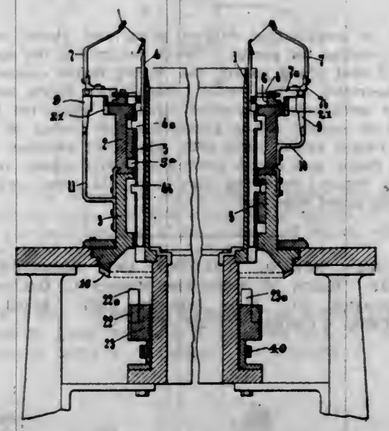
1,690,728. ROTARY PUMP. JOSEPH F. JAWOROWSKI, Cleveland, Ohio, assignor, by mesne assignments, to Joseph F. Jaworowski and Samuel E. Dettelbach, Cleveland, Ohio. Filed June 16, 1927. Serial No. 199,187. 10 Claims. (Cl. 103—123.)



1. A rotary pump, comprising a body having a circular working chamber, a rotor obliquely mounted between the sides of said chamber, a pair of sliding abutment blades engaging said rotor and subdividing said chamber, and a channeled holder for said blades rigidly secured within said body opposite said working chamber removable therefrom.

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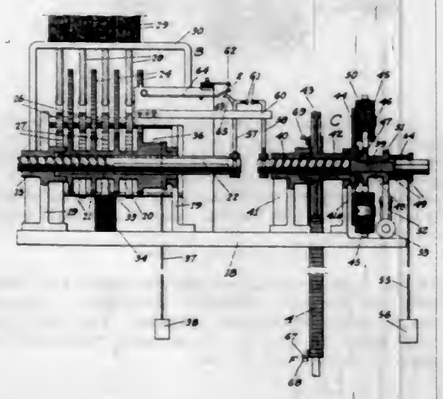
1,690,729. CIRCULAR-KNITTING MACHINE AND THE PRODUCTION OF FABRICS THEREON. THOMAS HENRY JONES, Woodthorpe, England. Filed Nov. 22, 1927, Serial No. 234,961, and in Great Britain Oct. 8, 1926. 8 Claims. (Cl. 66—51.)



1. In a circular knitting machine for simultaneously producing a plurality of flat knit fabrics with selvedge edges, the combination of a stationary cylinder, needles supported by the cylinder and arranged in groups, those of each group serving to knit a complete piece of fabric, such groups being separated from each other by spaces void of needles, and each needle being formed with two butts that are spaced apart, rotary cam carriers supported concentrically with the needle cylinder, means for rotating the cam carriers simultaneously in opposite directions, needle operating cams carried by the carriers for engaging respectively with the separated butts of the needles, the cams being located diametrically opposite each other so they pass one another when opposite the void spaces of the needle cylinder, and fixedly connected with

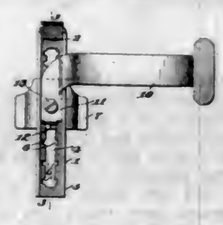
their respective carriers so they move in circular paths only, guides for delivering threads to the needles arranged to move in synchronism with the knitting cams, radially movable sinkers supported above the needle cylinder and each formed with two recesses, a pair of cams rotatable in paths concentric with the needle cylinder for engaging respectively each with one set of the recesses of the sinkers and means for rotating the sinker-operating cams in opposite directions.

1,690,730. LIQUID-DISPENSING APPARATUS. WILLIAM C. JONES, Alameda, Calif. Filed July 6, 1926. Serial No. 120,708. 14 Claims. (Cl. 221—101.)



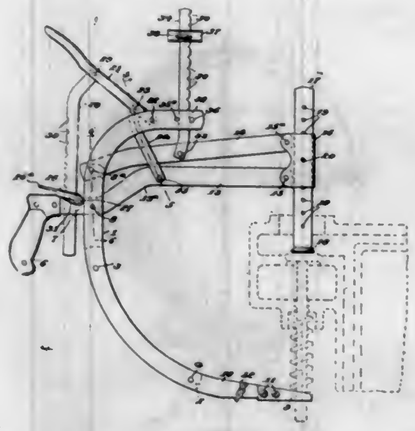
13. In combination with a pump and power means for operating the pump, a switch controlling the operating of said power means, and circuit means controlling the operation of the switch; said circuit means including a mechanically operated switch, a separated hand operated switch, means preventing the closing of said first named switch until both said other switches have been closed, and means holding said first named switch closed without requiring that both said other switches remain closed together.

1,690,731. SPRING HOLDING AND POSITIONING CLIP. HARRY W. KULP and MARTIN C. DELLINGER, Lancaster, Pa. Filed July 22, 1927. Serial No. 207,691. 6 Claims. (Cl. 29—87.1.)



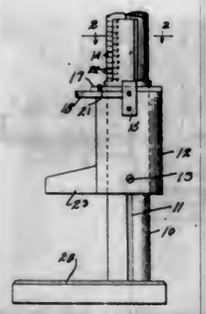
6. An adjustable spring holding and positioning clip consisting of a bifurcated handle having the end portions of its legs offset vertically with respect to said legs, in combination with bars having jaws, and means for adjustably securing the respective offset end portions of said legs to the respective bars in either of two reverse presentations of said offset end portions whereby said handle may extend in either of two different planes with substantially the same relative position of said jaws.

1,690,732. HEAVY-DUTY VALVE-SPRING LIFTER OR COMPRESSOR. HARRY W. KULP and MARTIN C. DELLINGER, Lancaster, Pa. Filed July 22, 1927. Serial No. 207,692. 12 Claims. (Cl. 29—86.3.)



12. A valve-spring lifting tool comprising a frame, a handle secured thereto, a jaw carried by said frame to engage under a valve-spring retaining cup, a foot adapted to rest on a valve head when said jaw is arranged about the stem of said valve under the valve-spring retaining cup thereon, and movable means connecting said frame and foot, in combination with an operating lever pivotally connected to said frame, a short thrust link, having its ends respectively pivotally connected to said means and said lever, and an element connected to said means, movable through said frame and cooperating therewith, and moving with said means and adapted to compress an otherwise free valve-spring.

1,690,733. MICROMETER GAUGE. JOSEPH LAMB, Detroit, Mich. Filed Sept. 28, 1927. Serial No. 222,419. 4 Claims. (Cl. 33—162.)



1. In a micrometer gauge, the combination of a main stem having calibrations thereon, a sleeve slidable longitudinally on said main stem having a graduated scale thereon, and a member movable on said sleeve having



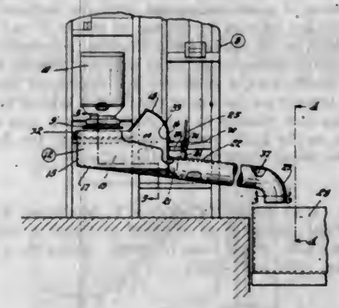
graduations on one of its margins any one of which graduations is adapted to be brought into register with one of said calibrations, and said member also having a fixed index thereon adapted to move over said graduated scale.

1,690,734. METHOD OF MAKING STOCKINGS. HARRY C. LANGER, Milwaukee, Wis. Filed Oct. 17, 1925. Serial No. 63,063. 5 Claims. (Cl. 66—186.)



1. The method of knitting a blank for full-fashioned stocking comprising knitting the leg portion to the instep, knitting a central body tab and a pair of heel tabs, burying the central body tab beneath the knock-over bits and knitting a pair of foot tabs, raising the buried central body tab, and knitting straight across the central body tab and the foot tabs.

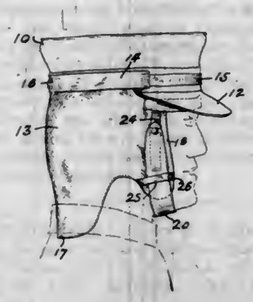
1,690,735. MILK-DUMPING DEVICE. HARRY D. LATHROP, Chicago, Ill. Filed Oct. 13, 1924. Serial No. 743,315. 6 Claims. (Cl. 221—69.)



1. The herein described milk dumping device including a hopper having downwardly and inwardly sloping bottom walls and a splash-preventing hood having an upwardly directed wall with a downward bend, a dumping platform above the hopper, a conduit leading outwardly from the hopper to weighing tanks disposed below the hopper, a spout swingably connected to the conduit whereby milk from the hopper may be directed into a particular weighing tank, means to drain spilled milk and means to receive said spilled milk, substantially as described.

1,690,736. CAP. JOSEPH F. LEICHT, Milwaukee, Wis. Filed Apr. 29, 1927. Serial No. 187,456. 2 Claims. (Cl. 2—208.)

1. A detachable protector for a cap, such protector comprising an elastic strap for attaching the same to the cap and a depending skirt portion adapted to be inserted inside of the coat collar of the wearer, and enclose the ears, sides of the head and back of the neck, and having one side edge of the protector extended so as to pass under



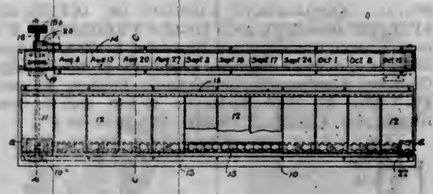
the chin, with means for attaching the extended end to the other side of the protector, and a brow band disposed under the visor of the cap and connecting the side edges of the protector across the forehead of the wearer.

1,690,737. STITCH-DOWN SHOE. ERWIN B. LOEWENBACH, Milwaukee, Wis. Filed Aug. 21, 1926. Serial No. 130,706. 6 Claims. (Cl. 36—16.)



1. A stitch down shoe comprising an upper, an inner sole and an outer sole, and a stay strip secured to the upper on the inner side of the instep and drawn across the bottom of the inner sole and secured in place.

1,690,738. SCHEDULE-CHECKING APPARATUS. HARRY B. LONG, Paterson, N. J. Filed Aug. 27, 1927. Serial No. 215,771. 8 Claims. (Cl. 40—28.)



1. In a schedule checking apparatus, the combination of a stationary holder for schedule cards; a support; a row of holders for schedule cards, movable and removably mounted on the support; and means for guiding the movable holders along the support toward the stationary holder.

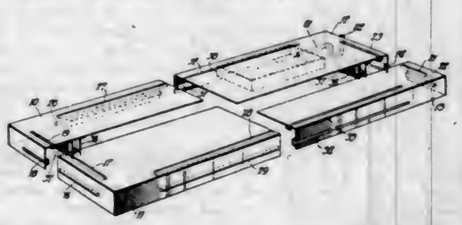
1,690,739. LIGHT LOCK FOR PHOTOGRAPHIC FILM STRIPS. GUNNE LOWKRANTZ, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Feb. 18, 1927. Serial No. 169,378. 10 Claims. (Cl. 95—9.)



1. In combination with a strip of photographic film, a leader strip attached to an end thereof, said leader strip lying in substantially the same horizontal plane of said film strip and having its side edges at points intersecting the extended vertical planes of said film strip.

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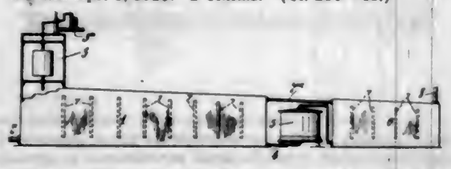
1,690,740. ADJUSTABLE RADIATOR COVER. MICHAEL LUERY, Chicago, Ill. Filed Aug. 1, 1927. Serial No. 209,741. 9 Claims. (Cl. 237—79.)



1. An adjustable radiator cover comprising four corner sections of self supporting material, each section slidable with respect to the other to modify the size of said cover transversely or longitudinally.

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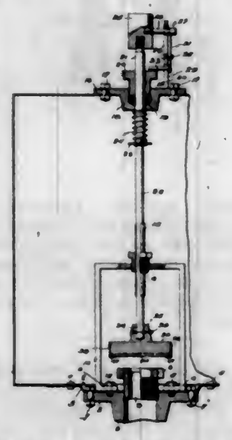
1,690,741. SEPARATING LIQUIDS OF DIFFERENT SPECIFIC GRAVITY AND MEANS THEREFOR. WILLIAM GEORGE GORDON PIRIE LUMSDEN, London, England, assignor to Rodway Stephens, Liquidator of The Pirbright Company Limited (in liquidation), London, England. Filed Mar. 31, 1926, Serial No. 98,840, and in Great Britain Apr. 8, 1925. 2 Claims. (Cl. 210—43.)



1. A system for separating liquids of different gravity, comprising a horizontally elongated separating chamber in which as the mixture flows therethrough the greater part of the lighter liquid rises, a collecting-compartment for said lighter liquid, a discharge valve in said collecting-compartment, a coalescor into which the contaminated heavier liquid enters when discharged from said separating chamber, and in which the very small particles of the lighter liquid coalesce to form drops, a second separating chamber receiving the flow from said coalescor, and means between the first and second separating chambers to allow the lighter liquid from said second chamber to pass to the collecting compartment in said first chamber.

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1,690,742. LOCOMOTIVE-TENDER TANK VALVE. ORVILLE S. MATTHEWS, Parsons, Kans., assignor of one-third to Leslie E. Lamm, Parsons, Kans. Filed Oct. 15, 1927. Serial No. 226,445. 2 Claims. (Cl. 137—21.)



1. In a device of the class described, a tank having a seat in its bottom, a guide supported near the bottom of the tank, a plunger slidable in the top of the tank and in the guide, a valve on the plunger and adapted to cooperate with the seat, spring means cooperating with the plunger to close the valve on the seat, a guide bracket, means for mounting the guide bracket on the top of the tank, a lateral finger on the plunger and slidable in the guide bracket, and a lever fulcrumed on the guide bracket and engaging the finger to operate the plunger and to open the valve.

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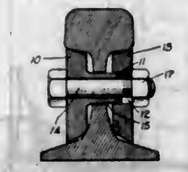
1,690,743. GAS BURNER. JOHN T. MCCOURT, Los Angeles, Calif., assignor of one-half to Ralph I. Guy, Los Angeles, Calif. Filed June 10, 1926. Serial No. 115,052. 2 Claims. (Cl. 158—109.)



1. A gas burner comprising a body member having a cylindrical air chamber therein, an air inlet thereto, a cylindrical cap detachably held on said body member and provided with a frusto-conical end portion and a central opening therein, a plurality of internally formed spiral ribs on said frusto-conical portion, an end closure in the rear wall of said body detachably held therein, a gas supply tube detachably held on said closure and provided with a nozzle centrally positioned in said air chamber, said gas supply tube having an intermediate expansion chamber rearwardly of said nozzle, and a gas inlet for supplying gas to expansion chamber.



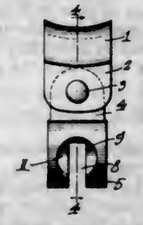
1,690,744. FISHPLATE. MICHAEL W. P. MCNAMARA, Chicago, Ill. Filed Aug. 5, 1927. Serial No. 210,741. 5 Claims. (Cl. 238—184.)



2. A male fish plate member having a plurality of integral bolt receiving tapered bosses; said male fish plate member being adapted to register and co-act wedgingly with a female fish plate member.

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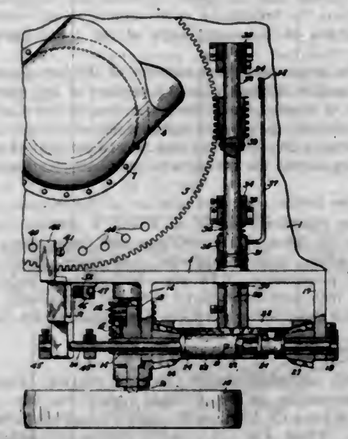
1,690,745. CHOKER HOOK. OLE MICKELSON, Hoquiam, Wash. Filed Aug. 17, 1927. Serial No. 213,607. 5 Claims. (Cl. 24—123.)



1. A choker hook including a tubular body open at opposite ends and having a line receiving slot in the wall thereof between the ends extending through more than 180°, one end of the slot being enlarged for the reception of the knob of a line.

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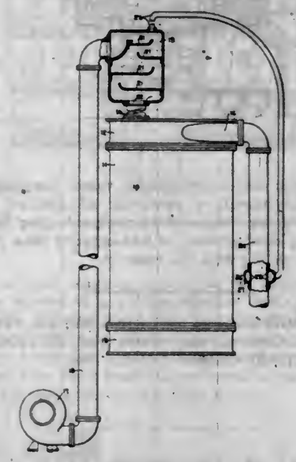
1,690,746. REVERSING-GEARING MECHANISM FOR STRAW STACKERS. SYDNEY G. MITCHINSON, Massillon, Ohio. Filed May 22, 1922. Serial No. 562,643. 2 Claims. (Cl. 74—50.)



1. In a reversing gearing for a straw tube or the like having a wheel forming the pivotal support thereof, a bracket plate mounted adjacent to said wheel, a drive shaft journaled in said plate, a worm upon the drive shaft, a beveled gear operatively connected to said wheel and journaled in the bracket plate, spaced bearing arms upon the bracket plate, a tubular shaft located at right angles to the axis of said beveled gear, and journaled in said bearing arms, a worm wheel upon said tubular shaft meshing with said worm, a pair of beveled pinions loosely mounted upon said tubular shaft and meshing with said beveled gear, a solid shaft slidably mounted within the tubular shaft, said tubular shaft being slotted, a double clutch member slidably mounted upon the tubular shaft, a radial pin connecting the solid shaft and double clutch member, the tubular shaft being thus continuously driven, in one direction, spaced collars upon the solid shaft, a spring toggle trip lever arranged to engage each of said collars, pins upon the wheel for alternately throwing the trip lever into engagement with each collar for sliding the solid shaft in opposite directions to move the double clutch member into engagement with each of the beveled pinions.

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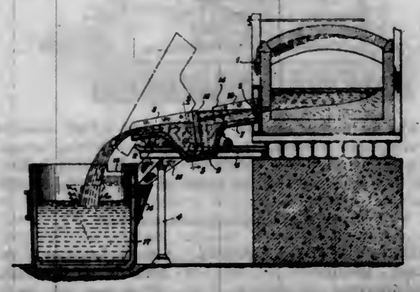
1,690,747. CONDENSER. DAVID W. R. MORGAN, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 23, 1927. Serial No. 177,714. 13 Claims. (Cl. 257—24.)



1. In a power installation, the combination of a surface condenser, an intake conduit and a discharge conduit therefor, means for removing gaseous media from the intake conduit, and means for entraining such gaseous media in fluid passing through the discharge conduit.

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1,690,748. SLAG AND GAS ELIMINATOR FOR MOLTEN STEEL. FREDELLIA H. MOYER, Canton, Ohio. Filed July 24, 1926. Serial No. 124,609. 1 Claim. (Cl. 266—37.)

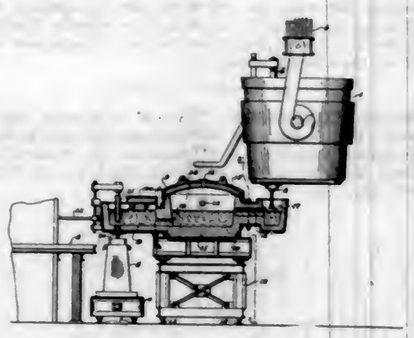


In combination with a steel melting furnace having a pouring opening, rails located adjacent to the pouring opening, a tapping receptacle adapted to receive molten metal

from the furnace, a well intermediate the ends of the receptacle, a dam in the well terminating at a point spaced from the bottom of the well, and rollers on the receptacle for engagement with the rails.

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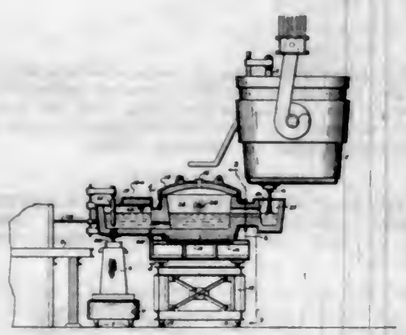
1,690,749. STEEL-POURING DEVICE. FREDELLIA H. MOYER, Canton, Ohio. Filed Aug. 17, 1926. Serial No. 129,806. 12 Claims. (Cl. 22—79.)



1. A pouring device including a vessel comprising a receiving compartment, a reservoir of greater capacity when the receiving compartment communicating therewith, and a pouring compartment of less capacity than the reservoir communicating with the reservoir.

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1,690,750. METHOD OF POURING STEEL. FREDELLIA H. MOYER, Canton, Ohio. Filed Aug. 20, 1926. Serial No. 130,517. 17 Claims. (Cl. 22—209.)

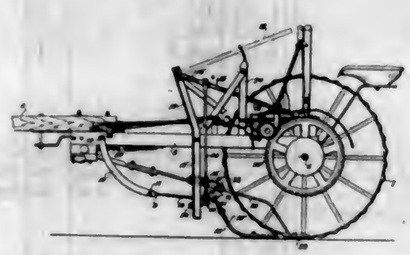


1. The method of pouring molten metal which consists in pouring and receiving the metal in an oxidizing atmosphere, de-gasifying the metal in a non-oxidizing atmosphere, and then teeming the metal in an oxidizing atmosphere.

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1,690,751. COTTON CHOPPER. JOSEPH L. PARKS, deceased, Henderson, N. C., by John L. Parks, jr., administrator, Henderson, N. C. Filed Apr. 20, 1928. Serial No. 271,541. 2 Claims. (Cl. 97—18.)

1. A cotton chopper comprising a wheel frame, a trailing frame pivotally connected at its forward end to the wheel frame for vertical movements, depth regulating shoes carried by the trailing frame at the rear of the machine, an elongated arm connected by a universal joint at its forward end with the forward end of the wheel frame, a



chopping blade secured to and trailing at the rear end of said arm, means for oscillating the chopping blade transversely, and means co-ordinating the vertical movements of the chopping blade with the vertical movements of the trailing frame.

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1,690,752. PHOSPHORUS COMPOUND FROM ANIMAL PROTEIDS AND PROCESS FOR THE MANUFACTURE THEREOF. SWIGEL POSTERNAK, Chene-Bougeries, near Geneva, Switzerland, assignor to The Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed Mar. 21, 1927, Serial No. 177,220, and in Switzerland Mar. 31, 1926. 10 Claims. (Cl. 167—7.)

1. A process for obtaining mixtures of the nuclei containing phosphorus and iron of the proteids contained in egg yolk by first subjecting the defatted egg yolk in the presence of a mineral acid to pepsin digestion, arresting this digestion at a desired period of time by materially diminishing the acidity of the mixture, filtering the precipitate thus produced and subjecting it to trypsin digestion in feebly alkaline medium, then acidifying the digestion liquor thus obtained, filtering and isolating from the filtrate by treatment with soluble metal compounds the mixture of the metal salts of the three phosphorus nuclei.

8. The herein described mixture of the two phosphorus nuclei $\alpha$ and $\beta$ obtained from the proteids of egg yolk, which mixture, in form of the calcium salt, constitutes a yellowish white, tasteless powder containing about 11 per cent of phosphorus, 1.25 per cent of iron and 10 per cent of calcium, and being useful for therapeutic purposes, for instance as a tonic.

10. The herein described mixture of the calcium salts of the three phosphorus nuclei $\alpha$, $\beta$ and $\gamma$ obtained from the mixture, in form of the calcium salt, constitutes a yellowish white, tasteless powder containing about 11 per cent of phosphorus, 1.25 per cent of iron and 10 per cent of iron and about 9–10 per cent of calcium, and is useful for therapeutic purposes, for instance as a tonic.

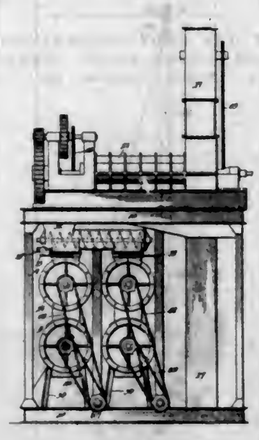
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1,690,753. COMBINATION COOKER DRIER. FREDERICK P. RENNEBURG, Baltimore, Md., assignor to Edw. Renneburg & Sons Co., Baltimore, Md., a Corporation of Delaware. Filed Apr. 17, 1926. Serial No. 102,738. 5 Claims. (Cl. 34—7.)

1. In an apparatus of the class described, a base, a cooker and hopper mounted at one side thereof, an elevator mounted on said base and communicating with said cooker and in alignment therewith, a press adjacent said cooker and at an angle thereto, said press being mounted in elevated position on said base, and a drier mounted on the



opposite side of said base from said cooker and elevator, and communicating with said press, means whereby the cooker and elevator structure are spaced from said drier



and additional drying members may be mounted upon the base within said space and in communication with said press.

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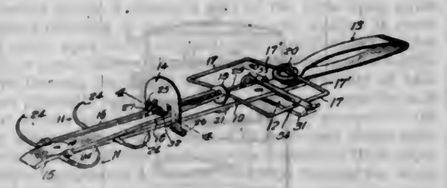
1,690,754. REMOVABLE FOOT FOR A SUPPORTING LEG. AARON E. ROSENTHAL, Chicago, Ill., assignor to Beacon Steel Furniture Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1927. Serial No. 163,993. 4 Claims. (Cl. 45—137.)



3. A foot for a hollow supporting leg, comprising a cap with a slot in its top, a block of pliable material having a head clamped in the inturned edges of said cap, and a shank consisting of a strap of resilient material having toe means and a bent over portion at its middle which is mounted in said cap over said head, said shank having spaced arm extending from said bent-over part through said slot and forming a bulging part at the top for resiliently and removably mounting it in the leg.

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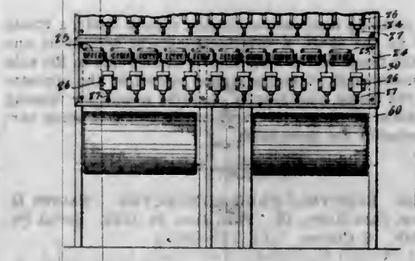
1,690,755. ANIMAL TRAP. FRED J. RUFLE, Lander County, Nev. Filed May 9, 1927. Serial No. 190,007. 2 Claims. (Cl. 43—91.)



1. A device of the character described comprising a longitudinally extending bar provided with ears on its forward end and a pair of forwardly extending lugs on the rear end thereof, a pair of downwardly and diverging rods having jaws on their forward ends and relatively large loop portions on the rear ends thereof said rods being pivotally mounted in the ears and lugs carried by said longitudinally extending bar, a pivotally mounted rod located intermediate said rods for carrying the jaws and provided with a loop portion on its forward end a backwardly bent portion on the rear end thereof, a pivotally mounted latch piece adapted for engagement with said backwardly bent end, a swinging latch plate arranged to cooperate with said hook end, and a spring located adjacent to said loop ends, normally tending to close the jaws.

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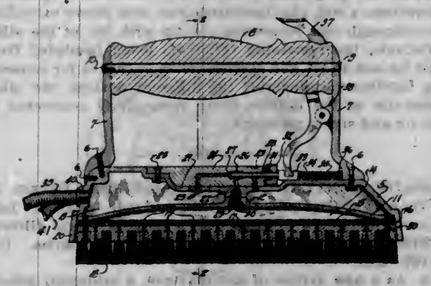
1,690,756. FRUIT-COUNTING APPARATUS. FRED STEBLER, Riverside, Calif., assignor to Stebler-Parker Co., Riverside, Calif., a Corporation of California. Filed Feb. 2, 1925. Serial No. 6,325. 5 Claims. (Cl. 235—98.)



5. In a fruit counting apparatus the combination with counting means of a rotary member having a plurality of pockets for the fruit, the individual pockets being disposed at different points along the rotary member and displaced from each other circumferentially, and means extending over the pockets in the path of the fruit in the pockets for actuating the counting means.

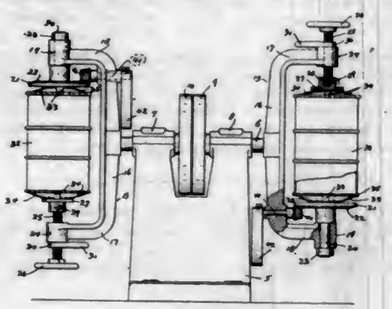
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1,690,757. BRUSH. JOSEPH C. STEINER, Wauwatosa, and MIKE PETE MIKAS, Milwaukee, Wis. Filed Oct. 20, 1927. Serial No. 227,512. 4 Claims. (Cl. 15—128.)



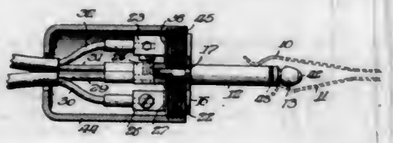
1. A cleaning device comprising a surface engaging member, an upwardly extending support connected at each end of said surface engaging member, a handle mounted between said supports, means for discharging a fluid below said surface engaging member, a valve seat in connection with said means, a valve needle in connection with said seat, a notched member on the outer end of said valve needle, a spring engaging said notched member, and a lever pivoted to one of the upwardly extending supports and having its lower end engaging the notched member and its upper end adjacent the handle.

1,690,758. DRUM-CLEANING MACHINE. ARTHUR STEVENS, Buffalo, N. Y. Filed Oct. 20, 1927. Serial No. 227,565. 5 Claims. (Cl. 141—6.)



1. A cleaning machine comprising a main shaft, a frame carried by the shaft, a rotating platform carried at one end of the frame and having its axis at an angle to the axis of the main shaft, clamping means carried by the opposite end of the frame, and gravity operated means for causing the rotation of the platform when the frame is being carried around by the main shaft.

1,690,759. ELECTRIC PLUG CONNECTER. WALTER H. TRIMM, Park Ridge, Ill. Filed June 24, 1922. Serial No. 570,649. 3 Claims. (Cl. 173—334.)



1. A telephone type plug for serially feeding a pair of portable two-wire electric current-responsive devices comprising a disc of insulating material, a sleeve provided with a flange secured to one side of said disc, three connecting members carried by the other side of said disc, one of said members being connected to said sleeve, a tip extending beyond the projecting end of said sleeve and insulated therefrom, a rod, also insulated from said sleeve extending therethrough and connecting the tip with one of the other terminals, the remaining terminals being insulated from said tip and sleeve and serving solely as means for connecting together terminals of the different devices, the other terminals of the devices being respectively connected to the tip and sleeve members.

1,690,760. ENTERIC COATED CAPSULE. ERNEST H. VOLWILER, Highland Park, Ill., assignor to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1927. Serial No. 159,242. 5 Claims. (Cl. 167—2.)

3. As a new article of manufacture, a medicinal gelatin capsule coated with a nitro-cellulose.

5. As a new article of manufacture, a medicinal capsule comprising a gelatin shell filled with a medicine, and a cellulose ester lacquer coating on the outside of said shell.

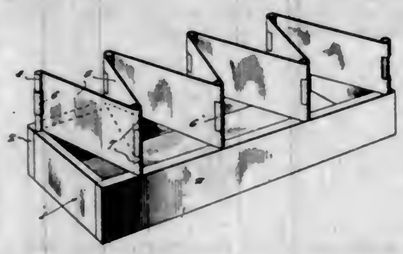
1,690,761. AGRICULTURAL APPARATUS. HERBERT I. WASHBURN, Magnolia, N. J. Filed July 10, 1926, Serial No. 121,514. Renewed Mar. 8, 1928. 23 Claims. (Cl. 191—12.)

1. In agricultural apparatus of the character described, an independently-movable electrically-propelled tractor element adapted to travel a curvilinear course under guidance of a steering cable with reference to a fixed point in a



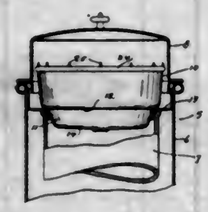
field, and independent compensatively tensioned conductors to carry electric current to said tractor element from said fixed point.

1,690,762. HOG TROUGH. CYRUS WEABER, Pueblo, Colo. Filed May 2, 1927. Serial No. 188,322. 3 Claims. (Cl. 119—61.)



1. A feed trough having opposed walls provided with sockets, posts removably fitted into said sockets and extending upwardly from said walls, and companion leaves extending transversely across said trough in diverging relation to each other and at their ends provided with hinge sleeves fitting upon said posts whereby the leaves and posts may be removed from said trough as a unit and folded into a compact mass.

1,690,763. COFFEE LEACHER. LEO WERTHEIMER, Buffalo, N. Y. Filed Aug. 2, 1927. Serial No. 210,064. 5 Claims. (Cl. 53—3.)



1. A coffee leacher comprising a receptacle having a side wall and a bottom, the bottom being formed with an opening and spaced ridges providing a plurality of passageways for the flow of the coffee to the opening, and a button having a flange supported on the ridges adjacent the opening and having a tapered portion extending downwardly into said opening.



1,690,764. ORNAMENTAL FORM AND METHOD OF MAKING SAME. MORRIS ALTBUCH, Brooklyn, N. Y. Filed Nov. 3, 1927. Serial No. 230,869. 7 Claims. (Cl. 41—10.)



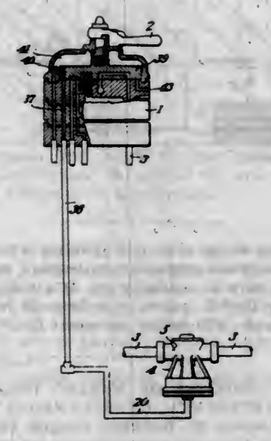
1. An article of manufacture comprising a shell-like structure arranged to simulate the frontal portion of the human head and having a marginal flange arranged at the rear portion for the attachment of decorative material.

1,690,765. CONSTRUCTION OF FLEXIBLE AEROPLANE WINGS WITH VARIABLE PROFILE. UGO ANTONI, Vinreggio, Italy. Filed Dec. 23, 1926, Serial No. 156,741, and in Italy Apr. 23, 1926. 4 Claims. (Cl. 244—12.)



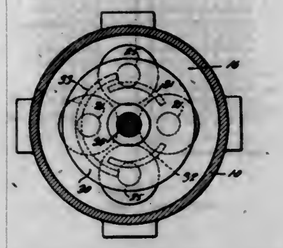
1. A wing for flying machines having a variable profile, comprising a pair of spacedly arranged spars, a plurality of bridges rigidly connected to said spars, a plurality of levers having apertures for the passage of the spars pivotally connected to the underneath side of the front spar, guide members disposed on said front spar and adapted to guide said levers upon their movement, said levers being provided on their upper sides with recesses adapted to receive flexible strips forming the profile of the wing, a plurality of back levers pivotally connected to the rear spar opposite said front levers, and having apertures for the passage of the spar, guides on said spar adapted to guide said levers upon movement thereof, said levers having recesses in their upper sides for the passage of the flexible strips forming the wing, a plurality of sleeve members fixedly mounted on said levers for guiding the flexible strip and having a height proportioned to the profile of the wing, and control means associated with said levers whereby the profile of the wings is controlled by the pilot.

1,690,766. VENT VALVE FOR AIR-BRAKE APPARATUS. WILLIAM ASTLE, Brooklyn, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 5, 1927, Serial No. 159,163. Renewed Apr. 18, 1928. 12 Claims. (Cl. 303—81.)



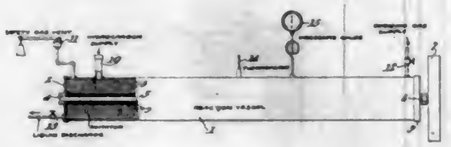
4. An air brake apparatus comprising an engineer's brake valve including a brake valve operating handle; a brake pipe; a brake pipe vent valve; a vent valve operating element, and means operable to move said element to force the vent valve to open position, against the pressure in the brake pipe, only when the brake valve operating handle is in emergency application position.

1,690,767. COMBINED MIXING AND DELIVERY VALVE FOR BATH FIXTURES. LEON BLOCH, Cleveland, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 6, 1926. Serial No. 86,438. 8 Claims. (Cl. 277—20.)



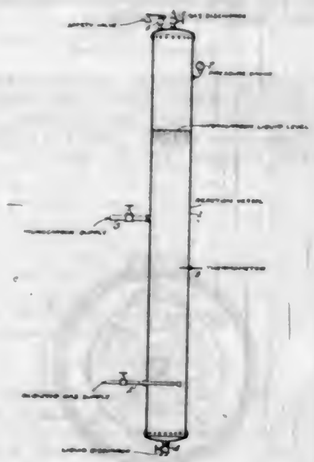
1. In a device of the kind described, a casing having a sub-dividing partition providing a mixing chamber, walls upon the opposite side of said partition providing inlet and delivery compartments, inlet pipes communicating with the inlet compartments, delivery pipes communicating with the delivery compartments, spring pressed valves between the inlet compartments and mixing chamber, spring pressed valves between the mixing chamber and delivery compartments, and a cam disk for actuating said valves as set forth.

1,690,768. OXIDATION OF HYDROCARBONS. ARTHUR W. BURWELL, Chagrin Falls, Ohio, assignor, by direct and mesne assignments, to Alox Chemical Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 13, 1922. Serial No. 588,073. 4 Claims. (Cl. 260—116.)



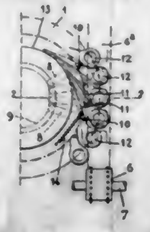
1. Process which comprises agitating a normally liquid hydrocarbon containing an aliphatic chain, in liquid phase, in contact with an oxidizing gas at a temperature of at least about 100° C. and at a pressure of from about 100 pounds to about 320 pounds per square inch.

1,690,769. PROCESS OF MAKING ORGANIC ACIDS FROM PETROLEUM HYDROCARBONS AND PRODUCT. ARTHUR W. BURWELL, Chagrin Falls, Ohio, assignor, by direct and mesne assignments, to Alox Chemical Corporation, New York, N. Y., a Corporation of New York. Filed May 31, 1923. Serial No. 642,638. 5 Claims. (Cl. 260—116.)



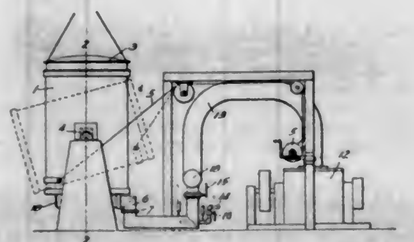
1. Process which comprises contacting an oxidizing gas with a normally liquid petroleum hydrocarbon mixture in liquid phase at a temperature above 100° C. and at a pressure greater than atmospheric pressure but not substantially above about 320 pounds per square inch, producing thereby oxidation products including water-insoluble heavy organic acids which are insoluble in the hydrocarbon mixture, separating the insoluble acids, and thereafter during the further treatment of the hydrocarbon mixture with oxidizing gas separating aqueous liquid therefrom.

1,690,770. CINEMATOGRAPH APPARATUS WITH CONTINUOUSLY-FED FILM. VICTOR CONTINSOUZA and MAURICE COMBES, Paris, France. Filed July 27, 1925. Serial No. 46,459, and in France Oct. 27, 1924. Renewed Dec. 9, 1926. 2 Claims. (Cl. 88—16.8.)



1. A cinematograph apparatus with continuously moving film comprising a rotary member adapted to revolve at a uniform speed on an axis parallel to the optical axis of the apparatus, a series of lenses, mounted for movement substantially toward and away from said axis of rotation on said rotary member, said rotary member being provided with a number of slots, a slider guided in each slot, a lever pivotally mounted upon each slider, a lens carried by each lever, a stationary cam adapted to act upon said sliders and to impart to the same a displacement adapted to give to the center of the corresponding lens a rectilinear path parallel to the axis of the film, and a second stationary cam adapted to act upon the pivotal levers and to displace the same so as to maintain a uniform linear speed for the center of the lens, during the passage thereof through the luminous beam, for the purpose described.

1,690,771. MAGNESIA PRODUCT AND PROCESS OF MAKING THE SAME. THOMAS S. CURTIS, Huntington Park, Calif., assignor, by mesne assignments, to Pacific-Southwest Trust & Savings Bank, trustee, Los Angeles, Calif., a Corporation of California. Filed Apr. 7, 1925. Serial No. 21,348. 12 Claims. (Cl. 23—201.)

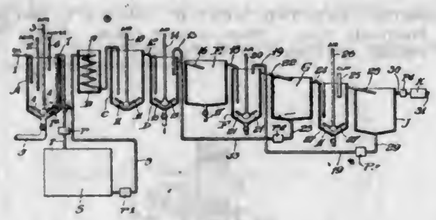


1. A magnesia product consisting of magnesia which has been heated sufficiently to convert the same substantially wholly to periclase without fusion thereof.

1,690,772. TREATMENT OF MINERAL OILS. THOMAS G. DELBRIDGE and HENRY F. DURE, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 21, 1925. Serial No. 31,744. 4 Claims. (Cl. 196—147.)

1. The method of decolorizing unrefined hydrocarbon oil, which comprises acid treating the oil, separating from the oil substantially all of the sludge formed, passing air into the acid-treated unneutralized oil while at elevated temperature, to condition the oil for subsequent clay treatment, thereafter adding finely divided clay to the unneu-

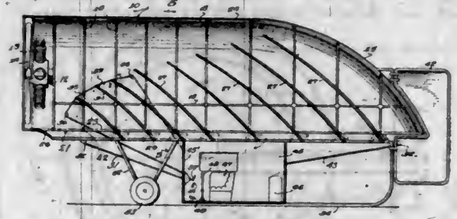




tralized oil, and intimately commingling air with the mixture of oil and clay while at substantially elevated temperature below 212° F.

1,690,773. AIRSHIP. ROY G. DONALDSON, Crestline, Ohio. Filed Dec. 4, 1926. Serial No. 152,702. 10 Claims. (Cl. 244—18.)

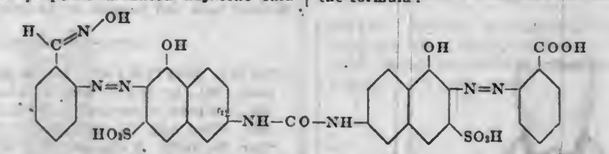
1. An aircraft comprising a tunnel having an opening in its forward end, a propeller mounted adjacent said opening to impel air rearwardly into said tunnel, said tunnel having a horizontally elongated bottom opening substantially throughout its length for the discharge of air



from said tunnel, and means for distributing air from said tunnel substantially throughout the area of said bottom opening for discharge therethrough.

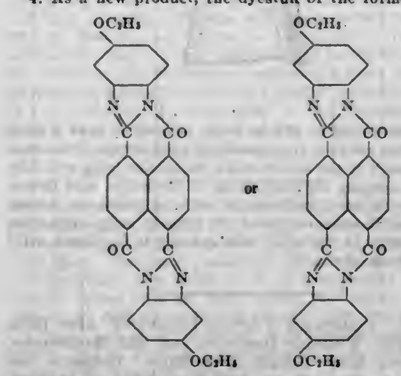
1,690,774. AZO DYESTUFF. WALTER DUISBERG, Leverkusen, near Cologne, and WINFRID HENTRICH and LUDWIG ZEH, Wiesdorf, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 8, 1925, Serial No. 74,163, and in Germany Dec. 19, 1924. 5 Claims. (Cl. 260—85.)

5. An azo dyestuff having in the form of the free acid the formula:



1,690,775. VAT DYESTUFFS DERIVED FROM 1, 4, 5, 8-NAPHTHALENE TETRACARBOXYLIC ACID AND AROMATIC ORTHO-NITRO-AMINES AND PROCESS OF PREPARING THE SAME. WILHELM ECKERT, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1927, Serial No. 164,126, and in Germany Jan. 29, 1926. 4 Claims. (Cl. 260—44.)

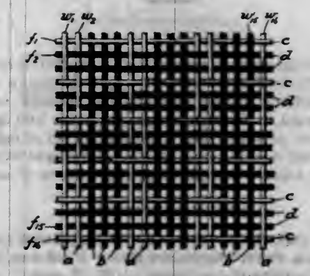
4. As a new product, the dyestuff of the formula:



which forms a brown powder and gives a vat of an olive-green color with an intense red fluorescence dyeing cotton on exposure to the air reddish-brown tints.

1,690,776. WOVEN MATERIAL. FREDERICK R. ELSTON, Philadelphia, Pa., assignor to Benjamin F. Miller, Philadelphia, Pa. Filed Feb. 13, 1928. Serial No. 253,969. 1 Claim. (Cl. 139—383.)

A woven fabric comprising a set of threads consisting of successive groups each of which consists of two threads of one color and three of another color, and a second set of threads interwoven with the first set and consisting of successive groups each of which consists of one

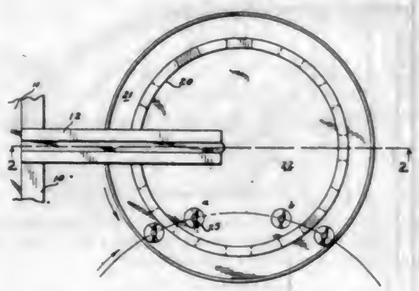


thread of one color and two of another color, the weave consisting of a repeat of weave of sixteen threads in each direction whereby a pattern having a mottled appearance is produced.

1,690,777. GLASS-DELIVERY APPARATUS. MEYER M. EPPSTEIN, Charleston, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 24, 1926. Serial No. 131,183. 19 Claims. (Cl. 49—56.)

1. A revolving tank to contain molten glass, including, a compartment from which charges are gathered, a com-

partment surrounding the first named compartment to receive portions of glass severed from charges gathered in



the inner compartment, and means for causing a reheating and transferring of the chilled portions from the outer to the inner compartment.

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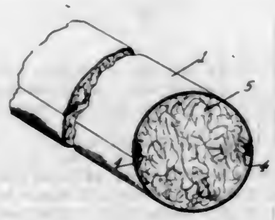
1,690,778. DOLL. GLADYS C. FORD, Brooklyn, N. Y. Filed Oct. 14, 1926. Serial No. 141,614. 1 Claim. (Cl. 46—40.)



A doll combination comprising a stuffed form having attaching buttons mounted on its rear surface, a cover for the form having a rear side opening through which the form is passed to position within the cover and said cover being further provided with a companion set of buttonholes adjacent said opening and positioned to have overlapping relation to receive therethrough the buttons of said form.

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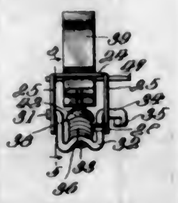
1,690,779. METHOD OF MAKING SAUSAGE CASINGS. FREDERICK FREY, Cincinnati, Ohio. Filed Jan. 22, 1927. Serial No. 162,902. 4 Claims. (Cl. 17—45.)



1. The process of making sausage casings which consists in taking a double ply layer of hog bung extension material for each of the walls of a casing, and stitching the double ply layers together adjacent their edges, and reinforcing the stitches with a strip extending in alignment with the line of stitches.

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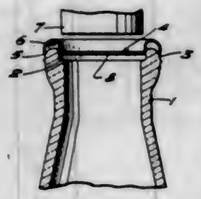
1,690,780. ELECTRIC SWITCH. ARTHUR C. GAYNOR, Stratford, Conn. Filed Aug. 2, 1926. Serial No. 126,530. 10 Claims. (Cl. 200—67.)



1. In a snap switch, the combination of a bracket, a wire crank journaled thereon, one end of said crank being doubled back upon itself, operating means including a spring for imparting an oscillatory movement to said crank, and a contact blade having a slot receiving said doubled back end portion of the crank.

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1,690,781. BOTTLE CAP. DAVID GENESE, deceased, Baltimore, Md., by Norris Genese, administrator, Baltimore, Md., assignor of one-half to William H. Orem, Baltimore, Md. Filed Aug. 18, 1926. Serial No. 130,070. Renewed Mar. 30, 1928. 2 Claims. (Cl. 215—38.)



1. A bottle cap of fibrous stock molded to have a disk-like portion adapted frictionally to lock within the rabbet at the mouth of the bottle, and a flange overlying and frictionally engaging the pouring lip of the bottle, said fibrous stock having been impregnated with a substance having the essential characteristics of boracic acid, enhancing the elasticity of the stock and causing it to shrink after removal from the mold.

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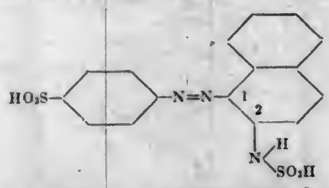
1,690,782. COMPLEX COPPER-AMMINE AZO DYESTUFFS. WINFRIED HENTRICH and MAX HARDTMANN, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 9, 1926, Serial No. 153,723, and in Germany Dec. 12, 1925. 6 Claims. (Cl. 260—12.)

1. In a process of producing a complex cupri-ammine-azo dyestuff the step comprising coupling diazotized ortho-amino-benzoic acid with the mono-azo dyestuff obtained from diazotized 3-amino-benzaldehyde and 5-5'-dihydroxy-2-2'-dinaphthylurea-7-7'-disulfonic acid and simultaneously reacting thereon with tetrammine-cupri sulfate in the presence of sodium carbonate.



1,690,783. PROCESS OF PRODUCING AZO DYESTUFFS. KARL HEUSNER and MAX SIMON, Leverkusen, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 7, 1927, Serial No. 197,220, and in Germany Apr. 6, 1925. 2 Claims. (Cl. 260—90.)

2. As a new product, the monoazo dyestuff having in its free state most probably the formula:



said dyestuff, in dry powdered form, being a brick-red powder dyeing wool an orange color.

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1,690,784. MOLDING MACHINE FOR BUTTER, MARGARINE, AND THE LIKE. WILHELM HILGERS, Duesseldorf, Germany. Filed July 18, 1927. Serial No. 206,666. 1 Claim. (Cl. 31—14.)

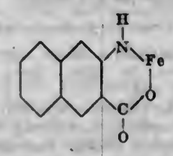


A machine for molding or shaping butter, margarine, and the like, comprising in combination, two conical worm screws so arranged relatively to one another that their axes converge towards their smaller ends, and said worm screws being spaced from each other and symmetrically arranged, a casing enclosing said worm screws having an interior chamber converging in the direction the worm screws converge, a mouth piece on said casing adjacent to the small end of the chamber, said mouth piece having an extrusion opening of a width and height substantially that of the corresponding dimension of the combined worm screws, and means for rotating the worm screws simultaneously in opposite directions.

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1,690,785. PROCESS OF PREPARING 2-AMINONAPHTHALENE-3-CARBOXYLIC ACID. ERNST HOTZ, Hattersheim-on-the-Main, and VALENTIN LANZ, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 16, 1927, Serial No. 240,627, and in Germany Dec. 17, 1926. 13 Claims. (Cl. 260—109.)

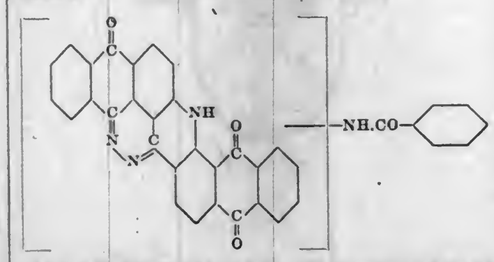
1. The process of preparing 2-aminonaphthalene-3-carboxylic acid by producing the insoluble complex iron compound of the probable formula:



and decomposing this compound, so as to form 2-aminonaphthalene-3-carboxylic acid.

1,690,786. VAT DYESTUFFS OF THE PYRIDAZINE-ANTHRAQUINONE SERIES. ALBERT JOB, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Aug. 17, 1927, Serial No. 213,697, and in Germany Aug. 25, 1926. 4 Claims. (Cl. 260—37.)

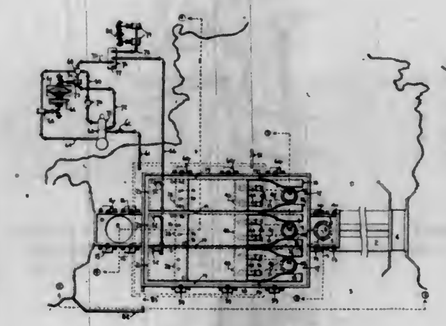
1. As new products the compounds of the general formula:



wherein the aromatic nuclei may be substituted, said products forming in the dry state dark colored crystals, soluble in concentrated sulfuric acid with a red-violet coloration, dyeing cotton from the vat green fast shades and being obtainable by causing a benzoylaminodiphthaloylacridone to be acted upon by hydrazine.

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1,690,787. TIDAL HYDRAULIC AIR COMPRESSOR. HERBERT M. KNIGHT, Montclair, N. J. Filed Oct. 7, 1921, Serial No. 506,006. Renewed Apr. 3, 1928. 11 Claims. (Cl. 230—106.)



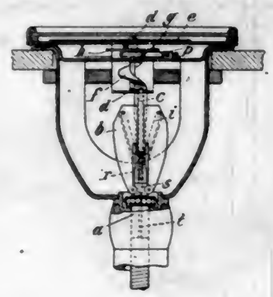
1. In a tidal hydraulic air compressor, a fore-bay basin, a tail-race basin, a down-take shaft located in said fore-bay basin, an uptake shaft located in said tail-race basin, a head-piece supported upon and located above the water in said fore-bay basin, means for elevating water from said fore-bay basin, means connecting said water elevating means and said head-piece, means connecting said head-piece and said down-take shaft and means connecting said down-take shaft and said uptake shaft.

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1,690,788. SPEEDOMETER. JOHANN KRAUSCHITZKI, Coburg, Germany, assignor to Metallwerk Max Brose & Co., Coburg, Germany, a Corporation of Germany. Filed Apr. 30, 1926, Serial No. 105,885, and in Germany Aug. 1, 1925. 2 Claims. (Cl. 264—15.)

1. In a speedometer, a driven shaft carrying fly weights pivotally connected by rods, a sliding pin sitting with its lower end on the joint connecting the rods of the fly weights said sliding pin being pushed by said joint, a

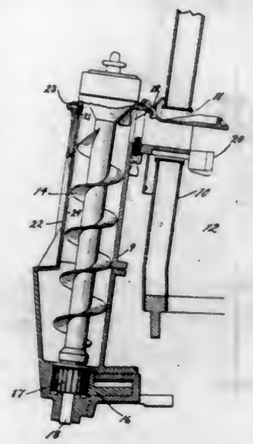
spring to hold the said joint pressed against the sliding pin, a pointer spindle carrying a screwthread arranged laterally and parallel to the driven shaft and rotated by



direct pressure of said pushed pin against the screwthread's surface, a spring on said pointer spindle for returning the pointer to the zero position.

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1,690,789. ELEVATOR CASING. NATHAN M. LOWER and PAUL ALLISON KETCHPEL, Pittsburgh, Pa., assignors, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 24, 1925. Serial No. 10,994. 1 Claim. (Cl. 198—15.)

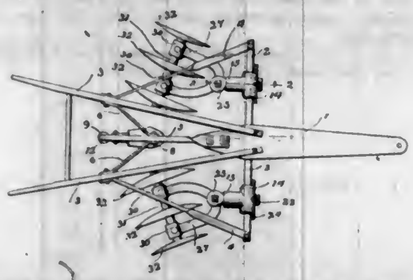


In a stoker for locomotives and the like, an elevator casing circular in cross section and having a continuous smooth inner peripheral surface for a major portion of its circumference, said casing having a relatively narrow elongated opening extending longitudinally thereof, and a removable closure for said opening having a rib at each edge thereof extending longitudinally of said closure and projecting inwardly beyond the inner surface of said casing when said closure is in position thereon for preventing rotation of fuel within said casing.

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1,690,790. CULTIVATOR. PERRIN N. MOODY, Gilliam, Mo. Filed July 7, 1926. Serial No. 120,990. 1 Claim. (Cl. 97—54.)

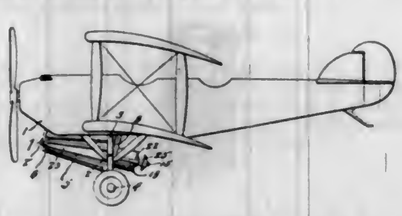
A cultivator comprising a beam, cross bars projecting from opposite sides of the beam, an arched shank projecting rearwardly from the beam and having a shovel at its lower rear end, handle members extended upwardly and rearwardly from the rear end of the beam, braces between the outer ends of the cross bars, and the respective handle members, other braces between the handle members and the said arched shank, heads slidable on the cross bars, shafts mounted in the heads and pivotally adjustable



therein, yokes pivoted to the shafts, and gangs of soil-engaging elements carried by the yokes and disposed upon opposite sides of the shank and adapted to coact with the shovel thereof.

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1,690,791. BOMBER ATTACHMENT FOR AEROPLANES WITH GAS BOMBS. ARCHIE F. NAIR and HOBERT A. NAIR, Glendale, Calif. Filed July 30, 1927. Serial No. 209,596. 4 Claims. (Cl. 244—1.)



1. In a bomber attachment for aircraft, the combination of a bomb holding frame open at one end, means for rigidly attaching such frame to an aeroplane, a pivotally mounted bomb-engaging member arranged to discharge the bomb longitudinally of the frame from the open end thereof, and a manually operated lever operatively connected with said bomb-engaging member.

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1,690,792. ROOF. RICHARD C. NEPTUNE, Indianapolis, Ind. Filed Jan. 12, 1926. Serial No. 80,791. 4 Claims. (Cl. 108—7.)



1. In a roof, the combination of strips having a felt body, and a granular surfacing, said surfacing being removed at the edges to form selvedges, said strips laid so as to overlap at the selvedges and nailed to the roof deck through the selvedges, and sealing strips secured over the selvedges, said strips also being formed of a felt body with granular surfacing thereon but having an overall thickness substantially the same as the thickness of the granular surfacing on the felt bodies.

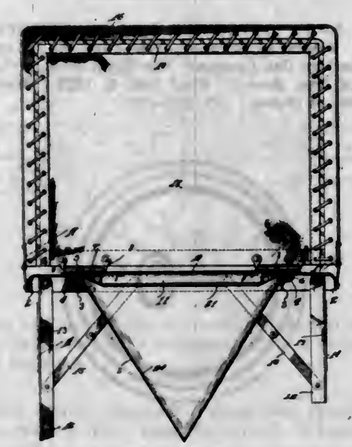
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1,690,793. COMMODE. MOSE OPPENHEIM, Pueblo, Colo. Filed Nov. 26, 1926. Serial No. 150,978. 2 Claims. (Cl. 4—134.)

1. A device of the character specified comprising a seat member having an opening and having the portion bordering upon the opening turned downwardly, said downturned portion having an intermediate depression, a receptacle disposed within the opening in the seat member and



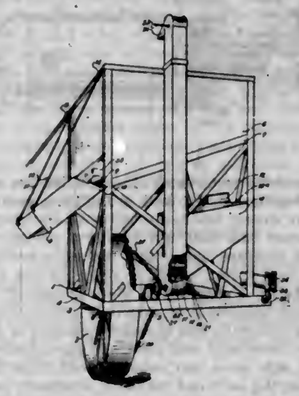
having a reenforcement around its upper edge seating in the depression in the downturned portion of the seat member, and a companion member adapted to be supported upon the seat member and having an opening opposite the opening of the seat member, the portion of said member



bordering upon said opening being downturned to extend within the receptacle, the outer margin of said member being downturned to bear upon the seat member, and the intermediate portion being flat and bearing upon the reenforcement of the receptacle to retain the same in the depression.

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1,690,794. GRAIN-RECEIVING ATTACHMENT FOR COMBINED HARVESTERS AND THRASHERS. WILLIAM F. RESCHKE, Wichita, Kans. Filed Aug. 2, 1926. Serial No. 126,701. 2 Claims. (Cl. 214—83.)

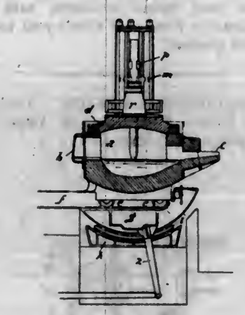


1. An attachment for combined harvesters and thrashers comprising a frame, means for attaching the frame to a combined harvester and thrasher, a single wheel supporting the frame, a grain receiving tank carried by the frame, a grain delivery tank above the first named tank also supported by the frame, and a conveyer for delivering grain from the receiving tank to the delivery tank.

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1,690,795. ELECTRIC FURNACE. GUIDO SAGRAMOSO, Milan, Italy. Filed May 19, 1924, Serial No. 714,480, and in Italy May 28, 1923. 1 Claim. (Cl. 266—15.)

An electric furnace, a support therefor, a pair of vertical standards mounted on said support, a crossbeam, adjustably mounted on said standards, an electrode secured to said crossbeam and movable therewith, a double walled jacket secured to said beam and surrounding said electrode, a double walled bell adapted to be supported by said furnace surrounding said jacket and within which

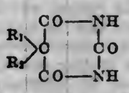


said jacket is adapted to slide, and releasable means to connect said bell with said beam whereby said electrode, said jacket and said beam can be elevated with respect to said furnace.

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1,690,796. PHARMACEUTICAL COMPOUND. WERNER SCHULEMANN, Vohwinkel, and KURT MEISENBURG, Elberfeld, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York. Filed Feb. 20, 1925, Serial No. 10,657, and in Germany Mar. 21, 1924. 4 Claims. (Cl. 260—33.)

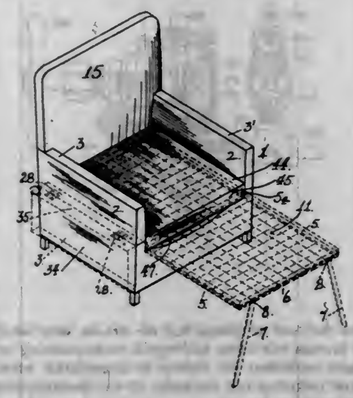
1. The herein described new unsymmetrically disubstituted barbituric acids of the general formula:



where $R_1$ is an unsaturated alicyclic nucleus and $R_2$ is a saturated or unsaturated alkyl residue, which are generally whitish crystalline products being easily soluble in a dilute solution of sodium carbonate and soluble with difficulty in benzene and water; and being valuable hypnotics, substantially as described.

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1,690,797. CONVERTIBLE CHAIR AND BED. MARION SCHWAB, San Francisco, Calif. Filed Apr. 12, 1927. Serial No. 183,088. 5 Claims. (Cl. 155—45.)

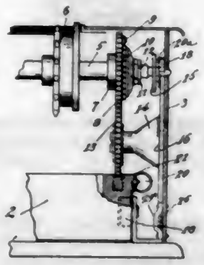


1. A convertible chair and bed comprising a fixed seat portion; a forward extension having side frame members pivotally connected with said seat portion and adapted to

be folded back thereover; a resilient integrated metallic bed fabric extending from the rear of said seat portion to the front of said extension and adapted for folding therewith; and a transversely resilient reinforcing member extending between said frame members, said reinforcing member being separate from said fabric and positioned adjacent to the fold thereof.

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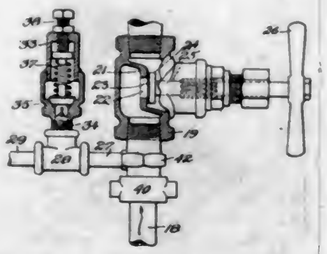
1,690,798. MANIFOLDING DEVICE. JOHN Q. SHERMAN, Dayton, Ohio. Filed Jan. 20, 1923. Serial No. 613,842. 5 Claims. (Cl. 235—4.)



1. In a manifolding device, the combination of a housing, a paper feeding mechanism for feeding form strips therein, a cash drawer therein, and driving connection between the cash drawer and the feeding mechanism, whereby movement of the cash drawer moves the said mechanism, a stop for the paper feeding mechanism operative to release said mechanism for definitely limited movements only, said driving connection between the drawer and feeding mechanism having a frictional element.

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1,690,799. METHOD OF AND MEANS FOR REDUCING THE VISCOSITY OF LIQUIDS. EDWARD A. SNOW, Reading, Mass. Filed Apr. 4, 1927. Serial No. 180,980. 9 Claims. (Cl. 99—2.)



2. The method of preparing ice cream mix which consists in forcing the same through a homogenizing valve by a pressure sufficient to secure homogenizing effects and thereafter reducing the viscosity of the homogenizing mix by passing the same through a constriction under a pressure less than the homogenizing pressure.

5. The combination with a pressure pump; a homogenizing valve whose inlet is connected with the outlet of said pump; a conduit connected with the outlet of said homogenizing valve and a liquid viscosity reducing constriction in said conduit which creates a non-homogenizing back pressure less than the homogenizing pressure of said pump.

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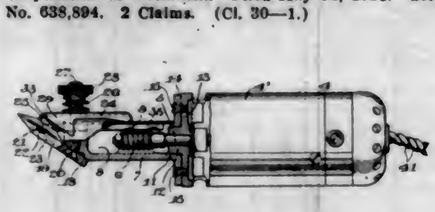
1,690,800. ATTACHING KEY TO KEY-OPENING CAN. JAMES A. STEWART, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1922. Serial No. 533,688. 4 Claims. (Cl. 220—52.)



1. A key-opening can and a key therefor, said key being attached to said can by interfused portions of the key and of the can respectively.

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1,690,801. CLIPPER. HUBERT VAN BEEK, Racine, Wis., assignor to Racine Electric Company, Racine, Wis., a Corporation of Wisconsin. Filed May 14, 1923. Serial No. 638,894. 2 Claims. (Cl. 30—1.)



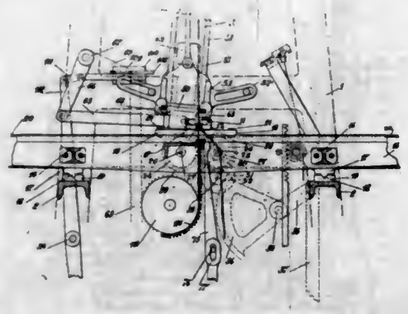
1. In a motor-driven clipper, the combination of a clipper casing having an end wall including a central aperture, a motor casing having an end wall abutting against said first-named end wall and having a projecting shaft entering said aperture, one of said end walls having a central alining boss fitting within a recess in the other end wall, there being a plurality of slots in one of said end walls disposed substantially arcuately about the axis of said abutting end walls and threaded openings in the other end wall in register with said slots, and headed screws passing through said slots and entering said threaded openings for clamping said end walls in abutment, said slots each having an enlarged end portion for permitting free passage of said headed screws therethrough after relative rotation of said end walls about their axis, and at least one of said slots having at its other end a countersunk portion receiving the head of the cooperating screw for locking said end walls against relative rotation when said screw is threaded in place.

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1,690,802. POWER LOOM FOR THE MANUFACTURE OF PILE FABRICS. PAUL VENAIL, Paris, France. Filed July 14, 1925, Serial No. 43,613, and in France Aug. 4, 1924. 10 Claims. (Cl. 139—5.)

1. A loom for the manufacture of pile fabrics, comprising a warp selecting reed, tuft-inserting means for winding tuft-yarn around warp threads, said tuft-yarn inserting means being adapted to form a plurality of knots from a single length of yarn, a guide on which said reed is

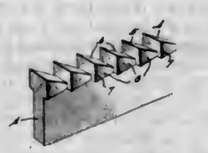




adapted to slide towards and from the yarn-tuft inserting means, said guide being oscillatable about a pivot at one end of the guide.

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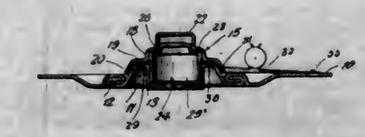
1,690,803. SAW. GEORGE R. VANDER WEE, Detroit, Mich. Filed May 10, 1923. Serial No. 637,957. 2 Claims. (Cl. 143—133.)



1. A saw formed from a blank having a thickened edge portion providing laterally extending ribs at each side of the blank along the edge thereof, edge cutting teeth formed in said thickened edge transversely thereof, each tooth having a cutting edge extending the full width of said thickened edge, and side clearance teeth formed in said laterally extending ribs with cutting edges extending inwardly of the blank across said ribs and forming a continuation of the cutting edges of the transverse teeth at each end thereof, said transverse teeth being inclined rearwardly in the direction of cutting movement of the saw, from said cutting edges, the faces of each lateral tooth converging rearwardly in the direction of cutting movement.

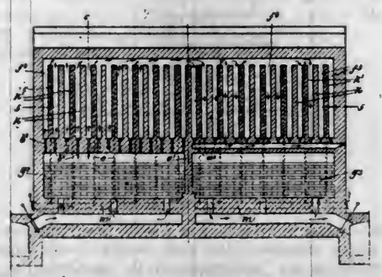
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1,690,804. CLOSURE. FRANK G. WIKSTROM, Brooklyn, N. Y., assignor to Hadwik Mfg. Co. Inc., Brooklyn, N. Y., a Corporation of New York. Original application filed Mar. 31, 1927, Serial No. 179,733. Divided and this application filed Jan. 13, 1928. Serial No. 246,438. 4 Claims. (Cl. 220—39.)



1. A closure comprising a sheet metal top member having an upwardly projecting wrench-receiving central portion, and an outwardly extending gasket-supporting portion; and a sheet metal bottom member having an externally threaded cylindrical portion and an upwardly extending central portion adapted to enter the upwardly projecting wrench-receiving portion of said top member; said top and bottom members being welded together.

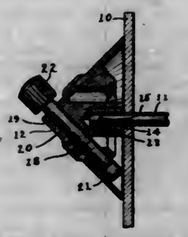
1,690,805. REGENERATIVE COKE OVEN. GUSTAV OTTO WOLTERS, Villigst, near Schwerte, Germany. Filed Sept. 10, 1926, Serial No. 134,613, and in Germany Mar. 14, 1925. 2 Claims. (Cl. 202—9.)



1. In a coke oven, a horizontally elongated coking chamber, heating chambers juxtaposed to the opposite sides of the coking chamber arranged with partitions extending transversely to said coking chamber and upward from the bottom to adjacent the top of each of the heating chambers separating each of said chambers into flues communicating with each other at the tops of the partitions, regenerators arranged below and parallel to the coking chamber, fuel inlets to the bottoms of the flues, primary air passages connecting the regenerators with the bottoms of the flues for supplying air from said regenerators to the heating chambers for supporting combustion of fuel therein and arranged with means for controlling flow of air through the regenerators to the heating chambers and flow of products of combustion from the heating chambers through said passages, and secondary air inlet passages connected with a source of air supply and extending vertically through the walls between the regenerators and through alternate partitions in each of the heating chambers and having outlets from the tops of said alternate partitions into the heating chambers for delivering a secondary air supply to the heating chambers at a point remote from the bottoms of said flues.

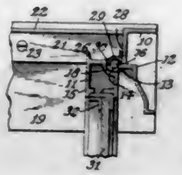
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1,690,806. DIAL. OLAF A. ANDERSON, Hamilton, Ohio. Filed July 13, 1922. Serial No. 574,836. 4 Claims. (Cl. 74—7.)



1. In a device of the class described, the combination of a rotatable dial of substantially conical form, a member relative to which said rotatable dial moves, and a shaft carried by said dial and arranged at an angle to the axis thereof, said shaft projecting at one end exteriorly of said dial and having its other end in engagement with said member whereby micrometer adjustments of the dial may be made by rotating the shaft.

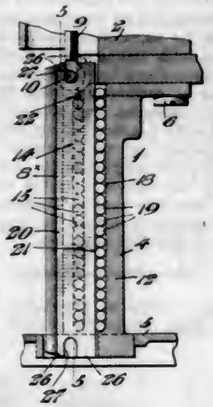
1,690,807. WINDOW. JOHN ANTAL, Brooklyn, N. Y. Filed Oct. 25, 1927. Serial No. 228,521. 10 Claims. (Cl. 189—69.)



1. In a window, a frame and a sash, the frame having a semicircular extension, the sash having means engaging said extension for imparting pivotal movement to said sash when it is moved outwardly, and a stop member on the window frame to prevent the disengagement of the means on the sash from said extension when they are facing the open side of said semicircle.

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1,690,808. CLOTH-CUTTING MACHINE. ISAAC APPELBAUM, Brooklyn, N. Y. Filed Feb. 4, 1928. Serial No. 251,790. 4 Claims. (Cl. 164—75.)

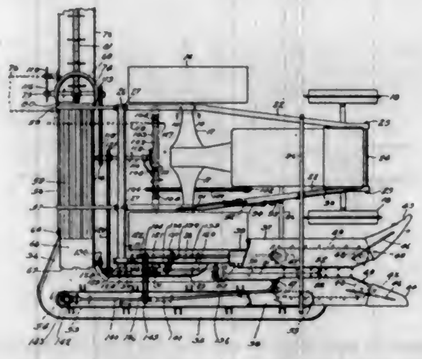


1. In a device of the character stated, a blade guiding column, a blade mounted to reciprocate therein, oppositely located vertically disposed ball races on each side of said blade, balls therein, and contacting with said blade, a roller chamber in the back of said column, and vertically disposed rollers in said roller chamber, contacting with the rear edge of said blade.

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1,690,809. POWER-DRIVEN CORN HARVESTER. THEODES V. BARNARD, Schaller, Iowa, and RAY MACKEY, LEONARD MACKEY, and LELAND MACKEY, Ipswich, S. Dak. Filed Sept. 28, 1925. Serial No. 59,075. 10 Claims. (Cl. 56—18.)

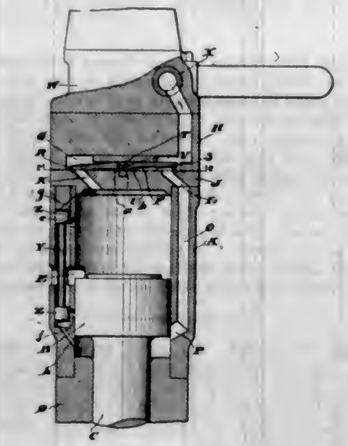
1. In a corn harvesting attachment for a tractor having rear traction wheels, a rear axle housing, and a radiator shell having side openings, a pair of side frame rails secured together at their rear ends and adapted to be extended over and secured, intermediate their ends, to the tractor rear axle housing, inwardly extending blocks carried by the forward ends of the rails, adapted to be received in said openings, a means to secure the forward portions of the rails in positions gripping the sides



of the radiator shell, with the said blocks extending into the openings therein, and picking and husking mechanism supported from the rear portions of the rails.

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1,690,810. SHIFTING FULCRUM VALVE FOR ROCK DRILLS. LEWIS C. BAYLES and FRED M. SLATER, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 27, 1925. Serial No. 33,119. 2 Claims. (Cl. 121—22.)

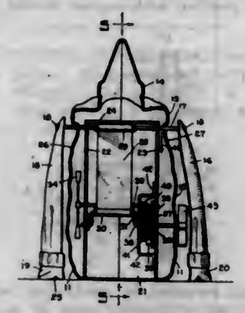


1. A fluid actuated rock drill, comprising a cylinder and reciprocating piston, a cylinder exhaust port, a valve chest having a flat valve seat, a fluid actuated oscillating distributing valve in the form of a thin plate formed with a flattened central median portion and oppositely extending surfaces tapered with respect to said median portion, whereby the edges of said median portion form two fulcra for the valve.

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1,690,811. ANIMATED TOY. HAROLD F. BARTLEY, New York, N. Y. Filed July 23, 1926. Serial No. 124,339. 8 Claims. (Cl. 46—40.)

3. In a toy, a body portion, a member for elevating said body portion and disposed on said portion to be reciprocated vertically in a path at one side of the center of gravity of said body portion, oppositely disposed arm portions suspended from said member for free swinging movement relative to said body portion, said arm portions



having an area of contact with a floor or other support to sustain the toy in equilibrium, and motive means for reciprocating said member.

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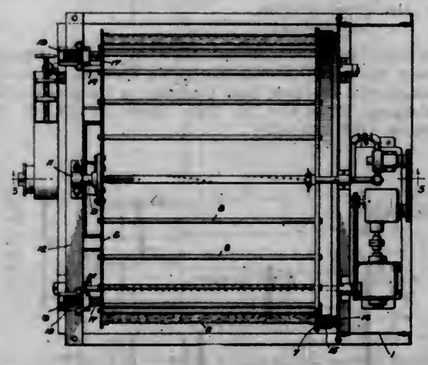
1,690,812. FILE. CHARLES E. BERTELS, Long Beach, Calif., assignor of one-half to John P. Benning, Trucksville, Pa. Filed Oct. 8, 1927. Serial No. 224,980. 1 Claim. (Cl. 29—79.)



A file comprising a pair of handles and a flexible band connecting the same, said flexible band being composed of sections each comprising a plurality of flat leaves having file teeth upon at least one face thereof, said leaves being spaced from one another transversely of the sections, the leaves of one section being interdigitated with the leaves of the adjacent sections and pins extended through the interdigitated portions of the leaves to pivotally connect the same and maintain the leaves in assembled relation.

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1,690,813. AIR FILTER. HANS E. BIRKHOLZ, Chicago, Ill., assignor to National Air Filter Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 24, 1926. Serial No. 137,537. 6 Claims. (Cl. 183—9.)



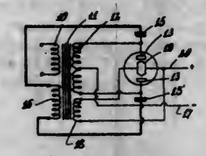
5. In an air filter, a filter drum, an arbor in the center of one end thereof for supporting said end of said drum, a bearing support for said arbor, a gear ring mounted on the outside of the other end of said drum, a pair of rotatable supports journaled one at each side of and below the center of gravity of said drum for supporting said end of said drum, gear teeth on one of said rotatable supports for meshing with said ring gear, and means for driving said toothed rotatable support for driving said drum.





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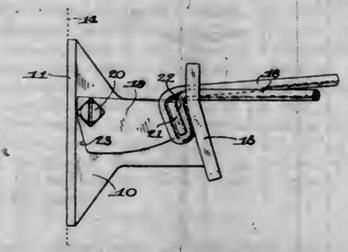
1,690,814. POWER-SUPPLY UNIT FOR RADIO SETS. FRANCIS DE WILLY, New York, N. Y. Filed July 2, 1926, Serial No. 120,029. Renewed Sept. 27, 1928. 1 Claim. (Cl. 175—363.)



In a device of the class described, the combination with a core having a primary winding adapted to be connected to a source of electrical power, a secondary winding on the primary winding, and shunted across the plates of a rectifying tube, of a circuit shunted across the plates of the rectifying tube, the said circuit including condensers and a shielded coil, and the said shielding coil being placed between the said primary and secondary windings.

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1,690,815. CLOTHESLINE CLAMP. HARRY F. DRAKE, Milwaukee, Wis. Filed Sept. 24, 1926. Serial No. 137,490. 7 Claims. (Cl. 24—133.)



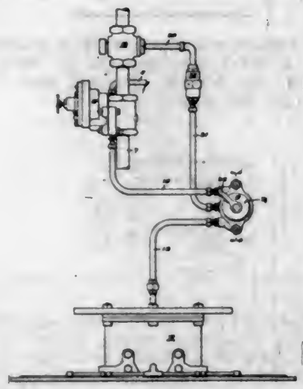
1. A line clamp, comprising a bracket having a base flange adapted to be secured to a support and having a laterally projecting forward portion forming a line-clamping surface at its rear face, and a dog pivotally mounted on said bracket adjacent said base flange and having a forward clamping face co-operating with said laterally projecting portion to clamp a line therebetween on the upward movement of said dog, said dog having a part engageable with said base flange for limiting its downward movement and permitting said line to lift said dog into clamping position.

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1,690,816. TRAIN-CONTROL-RESTORING APPARATUS. HOWARD S. FOLKER, Mill Valley, Calif., assignor to National Safety Appliance Company, Reno, Nev., a Corporation of Nevada. Filed Feb. 8, 1927. Serial No. 166,646. 26 Claims. (Cl. 303—18.)

5. In combination with a pneumatic brake control system having a brake pipe adapted to be vented to apply the brakes and an engineer's brake valve communicating with said brake pipe, an automatic brake-application mechanism for venting said brake pipe, means for automatically controlling said mechanism in response to a track condition, penalty restoring means including a member movable to restore said mechanism to normal non-venting condition after said mechanism has been automatically actuated to vent the brake pipe, said penalty means serving to retain said mechanism in venting condition until movement of said member has been com-

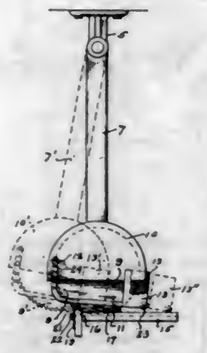
pleted, means for rendering said engineer's brake valve inoperative, and interlocking means for rendering said mechanism inoperable to vent the brake pipe after the



engineer's brake valve has been rendered inoperative and an incomplete movement of said movable member has been effected.

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1,690,817. SAW GUARD. HARRY A. HALL, Newcastle, Ind., assignor to The Hoosier Manufacturing Company, Newcastle, Ind., a Corporation of Indiana. Filed July 26, 1927. Serial No. 208,564. 4 Claims. (Cl. 143—159.)

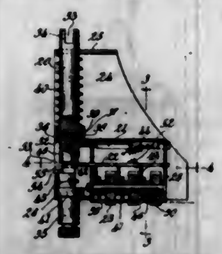


1. The combination with a swinging circular saw and a table over which the saw swings, of a hood fixed over the upper portion of the saw to swing with the saw, a second movable hood substantially U-shaped resting on the table telescoping over and around the forward end of the fixed hood, and an arm attached to each side of the movable hood, each of said arms passing backwardly along the saw in relatively close proximity to the table and thence upwardly to be pivotally attached to the fixed hood back of the axis of the saw.

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1,690,818. LOCK. ALEXANDER G. HATCH, Farmington, Conn., assignor to The Sesamee Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 4, 1926. Serial No. 152,536. 9 Claims. (Cl. 70—53.)

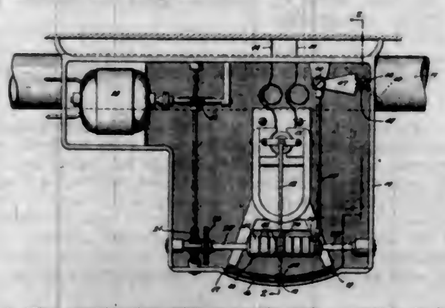
1. A lock comprising a bolt-controlling element oppositely movable from an effective to an ineffective position, and vice versa, a holding means whereby said element may be maintained in its effective position but from which it may be detached as a result of a releasing movement of said element differing from its movement towards and away from its effective position, and a permutation mechanism including a locking element and a plurality of variably settable elements having movement-obstructing portions whereby said locking element may be held by said settable elements either in a position such as to obstruct such releasing movement of said bolt-controlling element or in a non-obstructive position with respect thereto, the settable



elements of said permutation mechanism being settable in a predetermined relationship such as to permit free movement of said locking element from either of said positions to the other.

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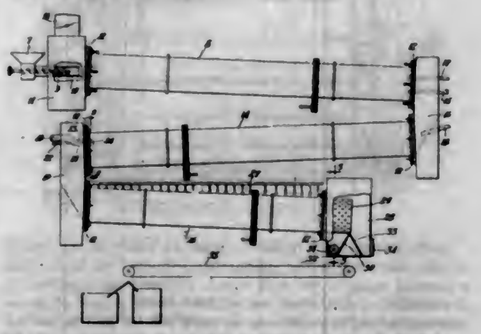
1,690,819. REGULATING APPARATUS. WILLIAM MCMEEN HEPBURN, New York, N. Y., assignor to The Surface Combustion Co. Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1924. Serial No. 716,619. 13 Claims. (Cl. 236—70.)



1. The combination with a needle and a member to be controlled in accordance with a change in position of the needle from a given neutral point, of means for temporarily returning the needle to said given position after a change from that position, and means actuated by said means for imparting movements to the controlled member proportional to the change of position of the needle from said given position.

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1,690,820. REDUCTION OF METALS FROM ORES. JOHN WILLIAM HORNSEY, Norton by Sheffield, England, assignor to Granular Iron Company, a Corporation of Michigan. Filed Nov. 25, 1925. Serial No. 71,442. 3 Claims. (Cl. 263—32.)



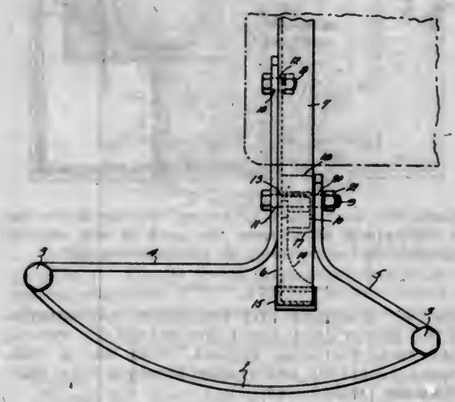
3. Apparatus for the solid reduction of ores including a rotating cylinder member, a casing member for an end



thereof, and a seal therebetween including a flexible diaphragm carried by one member, and annular shoe carried by the other member and slidably engaging the first member.

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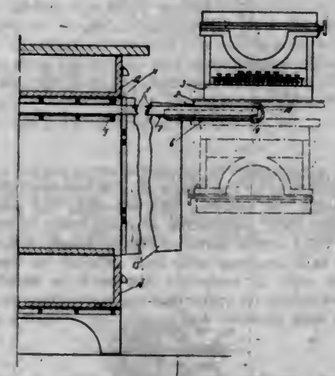
1,690,821. BUMPER-ATTACHING MEANS. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 14, 1927. Serial No. 161,208. 16 Claims. (Cl. 293—55.)



12. The combination with a channel shaped vehicle member and a support arm to be supported from a surface within said channel member, of a bearing plate positioned between said surface and a surface of said support arm and having end portions adapted to bear upon one of said surfaces and an intermediate portion adapted to bear upon the other surface.

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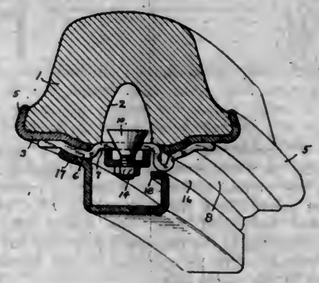
1,690,822. DEVICE FOR THE ERECTION AND KEEPING OF TYPEWRITERS. KARL ALBIN ABRAHAM JOHANSSON, Stockholm, Sweden. Filed Oct. 25, 1927, Serial No. 228,602, and in Sweden Nov. 28, 1925. 3 Claims. (Cl. 312—28.)



1. A device for bringing a typewriter or like machine into a position suitable for use from a more or less concealed position within a table or the like, comprising a movable support to which the bottom of the machine may be secured, coaxial rollers on the support positioned substantially beneath the center of gravity of the machine, a flat member slidable into and out of the table, guide strips for the rollers, each said strip having one end secured to the under side of the flat member at a distance from the outer edge thereof and having its other end curved upward around said outer edge and secured to the upper side of the flat member, whereby the movable support and machine attached thereto may be moved forward and backward on the guide strips and turned up into operative position when the rollers are in engagement with the upwardly curved ends of the guide strips.

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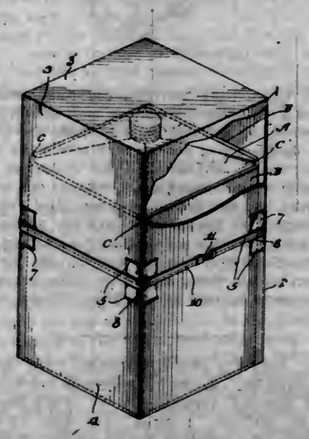
1,690,823. CUSHION-TIRE STRUCTURE. FRED R. KLAUS and FRANK H. MEYER, Warren, Ohio, assignors to The American Welding and Manufacturing Company, a Corporation of Ohio. Filed May 19, 1924. Serial No. 714,205. 3 Claims. (Cl. 301—19.)



2. The combination with a cushion tire having an inner, circumferential recess and rigid base rings secured thereto on opposite sides of the recess, of a transversely split, supporting ring having a locking engagement with the inner sides of the base rings, a bolt having a wedge-shaped head disposed between the ends of the ring at the split and extending into the recess, a channel-shaped bridge plate extending across the split on the inner side of the ring and having an opening through which the bolt extends, and a nut on the bolt adapted to be tightened against the inner side of the plate.

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1,690,824. CONTAINER. MATHIAS R. KONDOLF, Cynwyd, Pa., assignor to Boxboard Products Company, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 27, 1925. Serial No. 18,748. 9 Claims. (Cl. 206—46.)

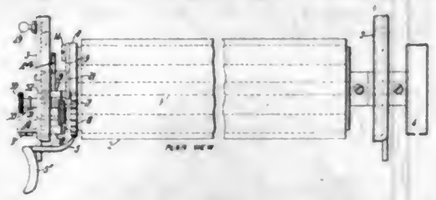


3. A container comprising a hollow receptacle and a closure therefor, corner engaging clips having angularly disposed body walls and flanges turned over from the end

of and extending transversely to said body walls and engaging said members and a band which when taut prevents dislodgment of said clips and when slack permits ready disengagement thereof.

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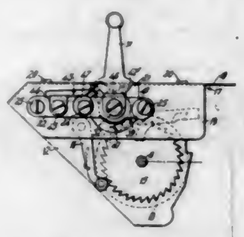
1,690,825. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed June 21, 1924. Serial No. 721,398. 18 Claims. (Cl. 197—121.)



1. In a typewriting machine having a platen and a platen-axle, the combination with a line-spacing mechanism to drive the platen, including a toothed ratchet-wheel, a line-space pawl, and a line-space lever, of a lever of the first order fulcrumed upon the platen-axle, one arm thereof connected to the line-space pawl and the other arm thereof connected to be operated by the line-space lever forwardly of the platen-axle.

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1,690,826. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 23, 1924. Serial No. 745,299. 20 Claims. (Cl. 197—121.)

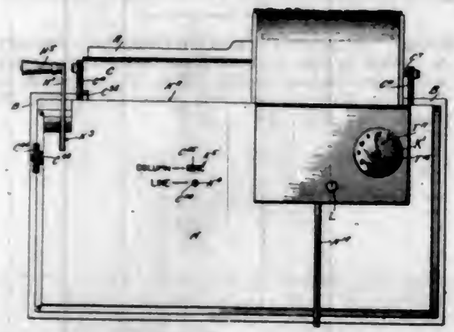


1. In a typewriting machine, the combination with a platen and a revoluble line-spacing mechanism, including a notched-wheel, of a fractional line-space mechanism comprising a double-acting spring, a pivoted lever movable in either direction by said spring, a pair of dogs or teeth rigid with said lever and spaced apart, so that one or the other engages with the notched-wheel when the lever is thrown in one direction or the other to turn the platen forwardly or backwardly through a fraction of a regular line-space, and adjustable stop means for limiting the throw of said lever in either direction, said lever being pressed against said stop means by said spring when thrown in either direction.

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1,690,827. DEVICE FOR CHECKING THE OPERATION OF VEHICLES. RALPH H. MATTHIESSEN and WILLIAM BARTON EDDISON, Irvington, N. Y. Filed Dec. 11, 1922. Serial No. 606,046. 1 Claim. (Cl. 161—15.)

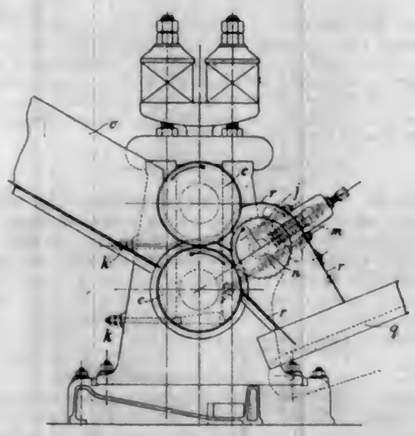
In a device for checking the operation of vehicles, the combination of a train of numbered wheels, a clutch, a clock movement arranged to drive said train through said clutch, a member moved by the travel of the vehicle at a speed proportional to the speed of such travel, a speed limiting device cooperating with said member, and means for opening said clutch when the speed of said member



exceeds that permitted by the speed limiting device and for closing said clutch when the speed of said member falls below that permitted by the speed limiting device.

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1,690,828. MACHINE FOR CRUSHING AND SHREDDING SUGAR CANE AND LIKE MATERIAL. FRANCIS MAXWELL, Wallington, England. Filed Mar. 9, 1923, Serial No. 623,847, and in Great Britain Mar. 14, 1922. 3 Claims. (Cl. 100—47.)



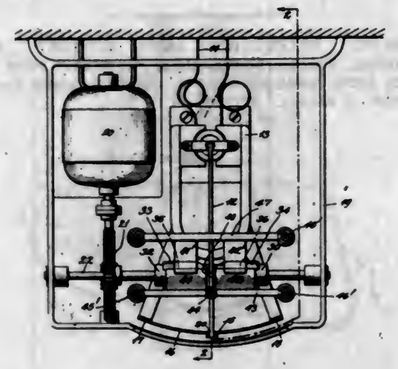
1. In combination in apparatus for crushing and shredding sugar cane or the like, a pair of cooperating crushing rolls, means for applying and adjusting the pressure between said rolls, cooperating crushing teeth on the surface of said rolls, and a shredder roll disposed at the delivery side of said crushing rolls and adjacent to one of said crushing rolls to cooperate therewith in shredding the cane, and means for regulating and controlling the pressure between said shredder and cooperating crushing roll.

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1,690,829. REGULATING APPARATUS. DANTE VICTOR MAZZOCCO, New York, N. Y., assignor to The Surface Combustion Co. Incorporated, New York, N. Y., a Corporation of New York. Filed May 29, 1924. Serial No. 716,618. 12 Claims. (Cl. 236—70.)

1. The combination with a movable needle and a member to be controlled in accordance with the position of the needle, of means located at one side of the normal path of movement of the needle and adapted to engage a side of the needle at intervals and at each such engagement to remain in contact with the needle for a time proportional to the extent of the displacement of the needle from a given

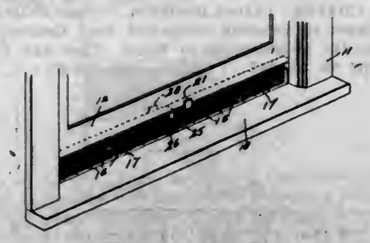




point at the moment of that engagement, and means for causing movement of the controlled member during the time that the engaging means is in contact with the needle.

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1,690,830. WINDOW VENTILATOR. ALLEN A. MILLER, Chicago, Ill. Filed Apr. 6, 1928. Serial No. 267,817. 1 Claim. (Cl. 98—90.)



In a window ventilator having a plurality of sections, said sections including side walls, inter-locking means between the adjacent sections comprising a U-shaped plate mounted upon one section and engaging the adjacent walls of said sections, a bolt projecting from said U-shaped plate, and a plate mounted upon the other section, said latter plate having a recess for receiving said bolt.

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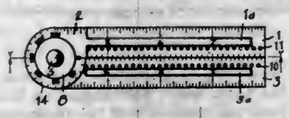
1,690,831. ELECTRIC HEATING AND SURFACE-FINISHING DEVICE. MANUEL NIETO, Brooklyn, N. Y., assignor of one-fourth to Francisco Lopez, New York. Filed Feb. 25, 1928. Serial No. 256,835. 4 Claims. (Cl. 219—31.)



2. A device of the class described, comprising a plaster engaging member of hollow construction, a winding backing member supporting a winding, engaged therein, a shell attached to the plaster engaging member, a stem connected with the shell, and handling means connected with the stem, the winding backing member being arranged for sliding within the shell, and screws rotatively connected with the winding backing member, and threadedly engaging the shell, as a means for adjusting the position of the winding relative to the plaster engaging member.

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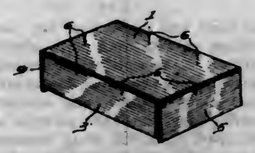
1,690,832. COMBINATION PAPER-CUTTING TOOL, RULE, AND DRAFTING AND MEASURING INSTRUMENT. IRA J. OWEN, Grand Rapids, Mich. Filed Nov. 24, 1924. Serial No. 751,993. 2 Claims. (Cl. 33—118.)



1. In a combination tool, a ruler made up of symmetrical pivoted halves with hinge disk superposed one upon the other, the main one being offset to form a shoulder for locating the pivoted member, the same being provided with graduations, a shouldered pivot rivet for retaining the parts in position, a concavo-convex spring washer under the head of the pivot to hold the parts yieldingly and in frictional contact with each other, the said rivet having a projecting surface-engaging pivot point, and a series of staggered perforations on the said members for the receipt of a pencil point for drafting purposes, all coacting substantially as described for the purpose specified.

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1,690,833. PROCESS OF MAKING BOXES. CHARLES S. PRICE, Bethlehem, Pa., assignor to L. F. Grammes & Sons, Inc., a Corporation of Maryland. Filed Feb. 5, 1926. Serial No. 86,254. 2 Claims. (Cl. 144—309.)



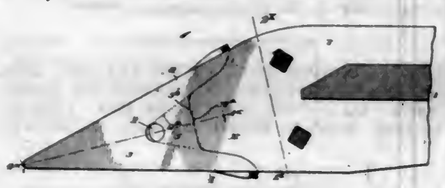
1. The process of making boxes which consists in nailing the bottom to the sides and ends while such parts are separate from each other and held in the positions which they occupy in the finished box, and thereby forming a preliminary assembly, and withdrawing such preliminary assembly from the holding means, whereby to permit such assembly to be handled as a unit and shifted to convenient position for further operation without necessitating the shifting of such holding means.

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1,690,834. REPLACEABLE-POINT EXCAVATOR TOOTH. THOMAS RATKOWSKI, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed July 23, 1927. Serial No. 207,854. 2 Claims. (Cl. 37—142.)

1. A replaceable point excavator tooth, comprising a base and a point adapted to be assembled with and disassembled from the base substantially in the direction of the longitudinal axis of the tooth; said point being constructed with a pair of divergent jaws and with integral lateral webs uniting said jaws and forming therewith a nose-receiving pocket, and with longitudinally extending clamping tangs terminating in base-abutting ends rearwardly remote from said pocket; said base comprising upper and lower tang-receiving recesses leaving a vertically reduced longitudinal base extension between them, and terminating at their rear ends in tang-receiving undercuts having faces

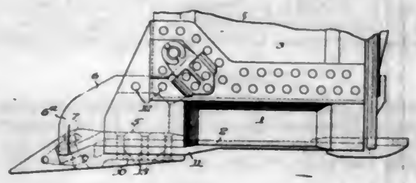
with which the tangs abut, inclined in the direction to press the tangs toward the bottoms of the recesses, means being provided for forcing the tangs rearwardly upon the base, cheeks on the base confining the tangs laterally and



terminating forwardly in abutments positioned to receive the webs of the point, and a nose projecting from the base extension beyond the abutments of the cheeks and entering the pocket of the point.

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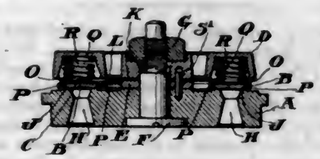
1,690,835. EXCAVATOR LIP WITH INTEGRAL TEETH. THOMAS RATKOWSKI, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed July 23, 1927. Serial No. 207,855. 7 Claims. (Cl. 37—141.)



1. An integral tooth and lip member for excavating implements, comprising an attaching plate adapted to overlie the inner surface of the wall of the implement, tooth members integral with and extending downwardly and forwardly from said plate member, and attaching shanks extending rearwardly from the lower portions of the tooth members, spaced apart from the plate members to leave a wall-receiving recess between said plate and said attaching shanks; said recess admitting the wall of the implement in a plane which is above the center of mass of the tooth members and their attaching shanks.

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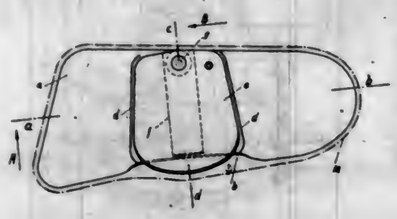
1,690,836. PLATE VALVE. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 29, 1926. Serial No. 119,353. 1 Claim. (Cl. 251—119.)



An improvement in plate valves for compressors comprising a valve seat, a plate valve in the form of a flat ring adapted to super-impose and to cover the port area on the said valve seat, notches in the edge of said plate valve, a valve guide having a flat upper surface and radial arms having arcuate extensions for normally holding said plate valve against its seat, and ears formed on the extremities of said extensions for forming loose continual engagement with the said notches in the plate valve, a stop plate, pockets in said stop plate, and springs in said pockets bearing upon the extremities of the said guide plate and indirectly upon the said plate valve.

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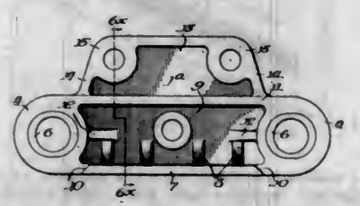
1,690,837. INSERTABLE ARCH SUPPORT. IGNAZ REHLE, Frankfort-on-the-Main, Germany. Filed Dec. 22, 1926, Serial No. 156,310, and in Germany Feb. 23, 1926. 2 Claims. (Cl. 36—71.)



1. An arch support including a main plate curved longitudinally and provided with a side flap and transversely extending stiffening ribs at the front and rear edges of the middle portion of the plate, a transversely extending plate secured to said first mentioned plate above said middle portion, and a spring between said plates for yieldingly supporting said transversely extending plate.

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1,690,838. INSIDE AND OUTSIDE LINK FOR CONVEYER CHAINS. CLAUDE ROBBECK, Chicago Heights, Ill., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 7, 1926. Serial No. 100,247. 7 Claims. (Cl. 74—32.)



1. A chain comprising articulated inside and outside links; an outside link comprising a pair of web-members in spaced parallel planes, constructed with articulating ends; an inside link comprising a single web-member in a plane intermediate of the planes of the outside link members and constructed with articulating ends fitting between the articulating ends of the outside link; the outside link members providing a broad stabilizing base through which the link rests upon bearing surfaces which the chain encounters in use; and the inside link single web-member being constructed with broad lateral flanges in a plane perpendicular to the plane of its web, providing a stabilizing base of substantially the same width as the base provided by the members of the outside link.

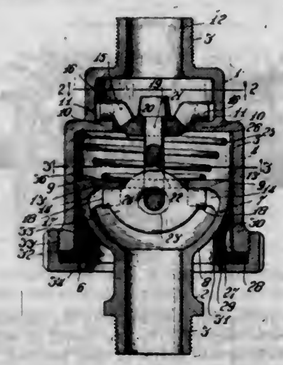
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1,690,839. FLEXIBLE PIPE JOINT. EDWARD N. ROTH, Chicago, Ill., assignor to Roth Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 23, 1926. Serial No. 89,984. 17 Claims. (Cl. 285—93.)

1. A flexible pipe joint, comprising a socket member and a member with an enlarged head which is housed within the socket, sealing means carried at the open end of the socket member and engaging behind the enlarged head, means projecting outwardly from the head and engaging



the inner walls of the socket for centering the head within the socket, and articulating means for preventing withdrawal of the head from the socket, the centering means and



articulating means supporting the head independently of the sealing means, but permitting universal swinging movement of the head in the socket.

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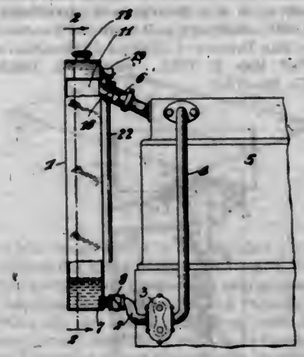
1,690,840. TELEPHONE AND THE LIKE. HENRY JOSEPH ROUND, London, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 3, 1925, Serial No. 464, and in Great Britain Jan. 5, 1924. 11 Claims. (Cl. 179—115.)



1. In an acoustic device an annular diaphragm, elastic material supporting said diaphragm, supporting means to which said elastic material is secured, actuating means for actuating said diaphragm, and means connecting said actuating means to said diaphragm at the mean portion thereof.

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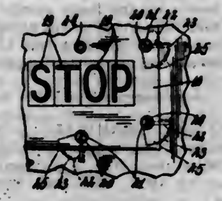
1,690,841. COOLING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Nov. 27, 1925. Serial No. 71,597. 4 Claims. (Cl. 123—174.)



1. An internal combustion engine force-feed cooling system of the type which includes a water container, a supply pipe leading from the container to the engine water jacket, said system designed and operating to cause boiling of the water in the jacket, an outlet pipe for the escape of hot fluid from the jacket and heat-radiating means affording a plurality of separate flow-paths above the water container, said paths cross-communicating only through their lower portions, certain of said paths being interposed between said water container and a low resistance outlet for escape to the outer air of steam, air or water from the system, and others of said flow-paths having their upper ends serially connected to the outlet from the water jacket.

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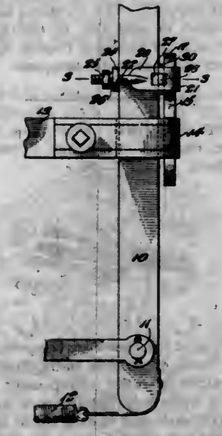
1,690,842. INLAID STREET DIRECTIONAL AND INSTRUCTION SIGN. ALFRED P. SANNA, New York, N. Y. Filed Sept. 3, 1927. Serial No. 217,350. 4 Claims. (Cl. 94—1.5.)




1. A street or road comprising a base, covering material thereon, removable patches with instructions inlaid in the covering material, the tops of the patches being flush with the surface of the covering material and means for latching the patches in place, the patches being reversible so that the bottoms may be placed upwards to disclose other instructions on said bottom.

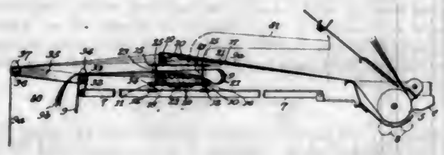
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1,690,843. PICKER-STICK CLAMP. JAMES J. SMITH, Glenside, Pa. Filed May 6, 1927. Serial No. 189,404. 1 Claim. (Cl. 139—154.)



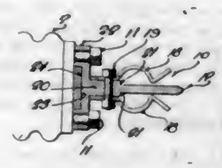
A picker stick clamping device comprising a hanger provided with oppositely disposed notches to receive a hold up strap, an extension at one end of said hanger, a clevis clamp arranged to fit about said extension and a juxtaposed picker stick, said clamp having slots formed in its legs to overlap both said stick and said extension in assembled condition, a plate arranged between said extension and stick and having tongues respectively slidably mounted in said slots, and clamping devices for rigidly holding said clevis clamping said stick, said extension and said plate together.

1,690,844. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 12, 1926. Serial No. 108,451. 13 Claims. (Cl. 197—126.)



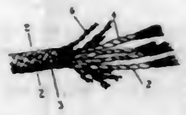
1. In a typewriting machine of the class described, a set of relatively separable carbon-carriers arranged one over the other, and means on the lower carrier for supporting the upper one, said supporting means being provided with extensions to engage the upper carrier to permit tilting movement thereof on said supporting means.

1,690,845. CONTACT TERMINAL. ALWIN G. STEINMAYER, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 12, 1925. Serial No. 62,021. 5 Claims. (Cl. 200—166.)



1. In a device of the character described, a support, a contact member, means securing the contact member to the support, there being a slot in the contact member on its face engaging the support, and a terminal tongue of the desired length secured in said slot in electrical connection with the contact member and held therein by the means securing the contact member to the support.

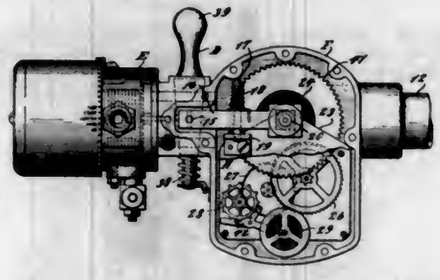
1,690,846. ROPE OR CORD. CLAUDE A. TURNER, Sherbrooke, Quebec, Canada. Filed Apr. 7, 1926. Serial No. 100,243. 1 Claim. (Cl. 96—26.)



A rope consisting of a fibrous core composed of a plurality of separate and distinct strands individually twisted and disposed in straight parallel engagement and in close contact forming a unitary untwisted core, and a cover embracing the unitary core and consisting of braided strands in spiral arrangement around the core and extending in the same spiral direction as the twisted individual strands of the core, and at a wider angle to the said strands of the core.

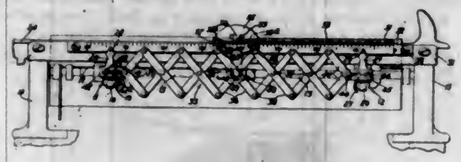
1,690,847. CONTROL MECHANISM. WILLARD I. TWOMBLY, New York, N. Y., assignor, by mesne assignments, to The Wilcolater Company, Newark, N. J., a Corporation of Delaware. Filed June 6, 1922. Serial No. 566,424. 2 Claims. (Cl. 161—9.)

1. In combination, a device biased to closed position for admitting fuel to a fuel-consuming element, a threaded shaft rotatable freely in one direction and biased to rotate in the opposite direction, clockwork mechanism for restraining the rotation of said shaft in response to its bias-



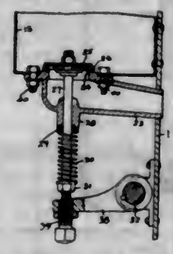
ing force, a traveller nut coacting with the threads on said shaft, and means controlled by the travel of said nut on its shaft for locking said device in open position.

1,690,848. TYPEWRITING MACHINE. BENJAMIN F. BARKER, El Paso, Tex., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,635. 18 Claims. (Cl. 197—194.)



1. In a typewriting machine, the combination with a traveling carriage, a letter-space scale for indicating the position of the carriage, and right and left adjustable margin-stops to limit the travel of the carriage, of a rod on which the margin-stops are slidingly mounted, a center-indicating telltale, means detachably connecting the telltale to the margin-stops for adjustment thereby, and a resilient supporting sleeve connected to the telltale and slidingly mounted on the rod, said sleeve having an opening in one of its sides to enable it to be removed from the rod and to be snapped into position to slidingly embrace the rod.

1,690,849. CONCRETE-MIXER WATER CONTROL. ORSON C. BARRYMORE and REGINALD A. DADDISMAN, San Francisco, Calif., assignors to Barrymore Concrete Mixer Corporation, San Francisco, Calif., a Corporation of California. Filed May 3, 1927. Serial No. 188,591. 7 Claims. (Cl. 83—73.)



1. A concrete mixer comprising a mixing trough, an elevated water tank secured to the trough, and a discharge nozzle leading from the tank through an opening in the trough for admission of water thereto, a valve seat on said nozzle, a valve on said seat provided with a stem extending through an opening in said nozzle, and means for operating said stem and its valve.

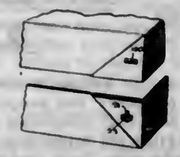


1,690,850. PACKAGE CLOSURE. MARCUS B. BEHRMAN, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Dec. 1, 1924. Serial No. 753,858. 7 Claims. (Cl. 229—46.)



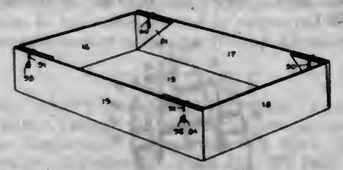
7. The combination with a closed container, of a fastening device for retaining it closed and unopenable except by mutilation of the container or the device, said device comprising a tie member extending at least partially around the container and unseverable except by mutilation thereof, the opposite ends of said member extending into the interior of the container at spaced points on the container and provided with enlarged locking elements permanently preventing withdrawal of said ends.

1,690,851. PACKAGE AND CLOSURE THEREFOR. MARCUS B. BEHRMAN, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 27, 1925. Serial No. 18,775. 12 Claims. (Cl. 229—46.)



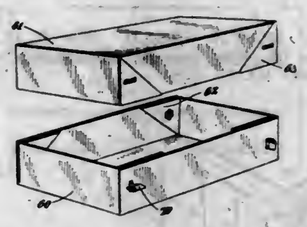
1. A box construction comprising a knock-down body, fastening means for retaining the body in set-up condition, said means comprising rotatable studs designed to pass through certain portions of the body and to retain the body set up after rotation thereof, and a closure provided with slots which are engageable over said studs only after the latter have been so rotated.

1,690,852. PACKAGE AND CLOSURE THEREFOR. MARCUS B. BEHRMAN, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 6, 1925. Serial No. 21,060. 11 Claims. (Cl. 229—46.)



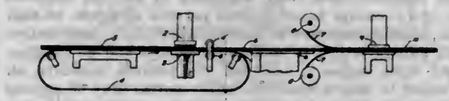
1. In a box construction, a box member formed by folding an integral flat blank along predetermined lines, whereby multiply portions are produced, a complementary closure member adapted to telescope the box member, and means for retaining the box member in set-up condition and also to lock said closure member thereto, said means comprising a resilient U-shaped element removably clampable over the edges of said portions to retain said plies in superposition and having a head adapted to engage the closure member, said U-shaped element serving as the sole means for retaining said plies in superposition.

1,690,853. PACKAGING. MARCUS B. BEHRMAN, New York, N. Y., assignor to The Lox Seal Corporation, New York, N. Y., a Corporation of New York. Filed July 6, 1925. Serial No. 41,512. 3 Claims. (Cl. 229—47.)



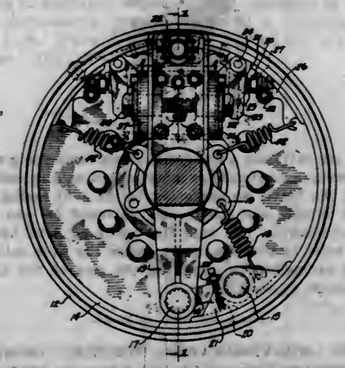
1. In combination with a box part comprising superposed portions, of means for holding said superposed portions in associated relation, said means comprising an element adapted to be passed through the superposed layers and when rotated with reference thereto, to hold said layers against disassociation, and means for locking said member against removal, said means comprising an abutment on said element and an abutment member to be irremovably associated with said abutment.

1,690,854. METHOD OF MAKING FELT PRODUCTS. PERCY R. BETTISON, Chicago, Ill., assignor to Tanners' Products Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 12, 1926. Serial No. 101,540. 3 Claims. (Cl. 28—4.)



1. The method of forming a punch-felted body which consists in carrying the felt bats through a needle punching loom on a continuously moving endless conveyor to which parts of the felt are punched and thereafter cutting the sheet of punched felt from said conveyor.

1,690,855. BRAKE. NIELS A. CHRISTENSEN, Cleveland, Ohio. Filed Mar. 29, 1926. Serial No. 98,230. 2 Claims. (Cl. 188—106.)

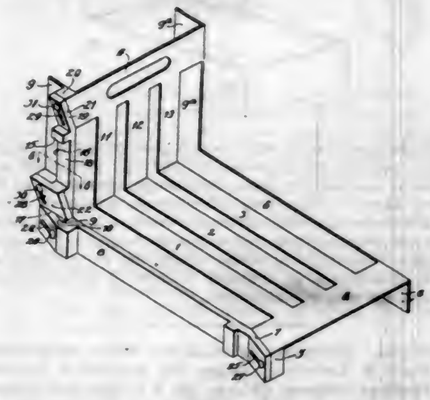


1. In a vehicle brake mechanism, the combination with a rotatable brake drum, a brake support, a brake associated with said support and engageable with the interior surface of said drum, a manually operable oscillatory expander journalled on said support and engageable with an end of the brake to move it into braking engagement with said drum, a fluid-pressure-operated motor mounted on said support and provided with a thrust member, guide and

thrust connections between said thrust member and brake adjacent the end thereof, said guide and thrust connections serving to keep said brake in alined position relative to said expander and drum.

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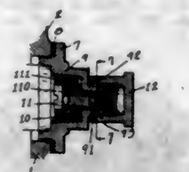
1,690,856. MORTAR SHIELD. NILS E. CLEMENTSON, Chicago, Ill. Filed June 29, 1927. Serial No. 202,402. 3 Claims. (Cl. 72—128.)



1. A mortar shield consisting of a horizontal and a vertical member respectively consisting of parallel elements and end elements joined to said parallel elements, to hold said parallel elements in spaced relation, in combination with flanges joined to said end elements and at substantially right angles to said end and parallel elements, all arranged to obtain spaces in which mortar may be applied to determined faces of blocks which are being built into a wall.

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1,690,857. PISTON PUMP. ROLAND J. FAIRCHILD, Kalamazoo, Mich., assignor to National Water Lift Company, Kalamazoo, Mich. Filed Nov. 19, 1925. Serial No. 70,056. 2 Claims. (Cl. 251—122.)



1. An air valve for a hydraulic pump comprising a cylindrical casing, a hydraulic packing within said cylinder constituting the valve, an extension to the said casing, screw threaded outside and inside and flattened on one side, a screw flattened on one side for retaining said hydraulic packing valve in position, and a screw cap over said screw threaded extension for adjusting the size of the aperture therethrough, as described.

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1,690,858. SHAVING-PAPER HOLDER. CHARLES R. FLEISCHMANN, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 136,909. 3 Claims. (Cl. 242—55.5.)

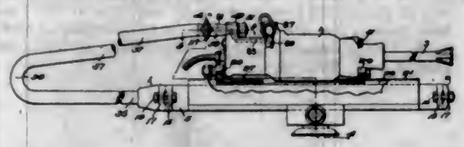
1. A shaving paper holder consisting of a supporting member adapted to be vertically mounted and having a transversely disposed and forwardly and downwardly inclined portion, a ball-like holder for a roll of paper pivotally mounted at its upper portion on the upper part of said member and having its free ends inwardly extended, a core with a central opening relatively larger than said inwardly extended ends located between and eccentrically on said inturned ends for receiving a paper ribbon roll wound thereon and which turns therewith and is adapted to bear against



a portion of the vertical and a part of the inclined part of the supporting member, whereby rebounding of the paper ribbon will be prevented.

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1,690,859. DRILLING MACHINE. GEORGE H. GILMAN, Belmont, Mass. Filed Aug. 10, 1921. Serial No. 491,136. 19 Claims. (Cl. 121—9.)



1. A hammer rock drill having, in combination, a supporting fixture, a percussive tool carrying a drill steel, feeding means for said steel comprising a relatively thin walled tube constituting the barrel of a feed cylinder, a piston in said cylinder operatively connected to said percussive tool for moving the latter relative to said cylinder, means slidably supporting said percussive tool on said cylinder and slidably supporting said cylinder on said fixture comprising four spaced ways extending longitudinally of said cylinder parallel to the axial line thereof, said ways formed of relatively thin sheet metal parts having portions conforming to the surface of said tube and welded thereto and portions extending away from the surface of said tube for connecting the percussive tool to said cylinder and said cylinder to said fixture.

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1,690,860. DEVICE FOR PLAYING MUSICAL INSTRUMENTS. GUILLERMO GONZALEZ, Johnstown, Pa. Filed Apr. 22, 1926. Serial No. 103,749. 5 Claims. (Cl. 84—322.)



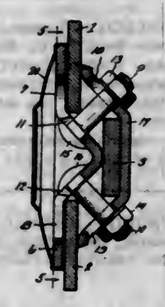
1. In a device of the class described, finger tips comprising hollow substantially cylindrical members having a closed end adapted to be disposed over the ends of adjacent



fingers of a hand, attaching members comprising strips of flexible material attached at their forward ends to adjacent sides of adjacent finger tips and adapted to be disposed longitudinally of adjacent fingers, and ring members disposed over adjacent strips of said attaching member and adapted to be disposed around the fingers between the joints thereof for retaining said strips adjacent the sides of said fingers.

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1,690,861. CENTER CLAMP. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 17, 1927. Serial No. 161,506. 24 Claims. (Cl. 293—55.)



1. A clamp for spaced impact bars and the rear bar of an automobile bumper consisting of a front plate adapted to bear upon the front surfaces of the impact bars and having a rearwardly extending portion adapted to pass between the impact bars and bear upon the rear bar, a rear plate adapted to bear upon the rear surface of an impact bar and upon the rear surface of the rear bar, and means for drawing the two plates together.

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1,690,862. SAXOPHONE. ALFRED J. JOHNSON, Grand Rapids, Mich., assignor to J. W. York & Sons, Grand Rapids, Mich. Filed Jan. 3, 1925. Serial No. 363. 6 Claims. (Cl. 84—385.)

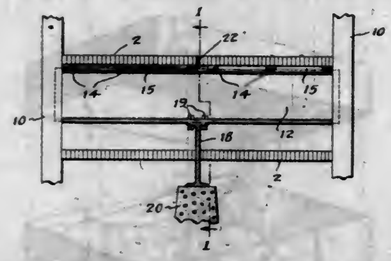


1. In a saxophone or similar instrument, a tone hole structure comprising the combination with the body provided with a perforation at the side, of a tubular socket section secured to said body and surrounding said perforations and suitably soldered thereto, and a ductile noncorrosive metal lining member with an expended projecting flange within the instrument and its outer end spun to conform to the socket section to retain the same and form a smooth contact surface for the pad, as specified.

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1,690,863. TRAVELING-GRATE STOKER. LOUIS WILLIAM KLEIN, Chicago, Ill., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 27, 1925. Serial No. 4,991. 2 Claims. (Cl. 110—40.)

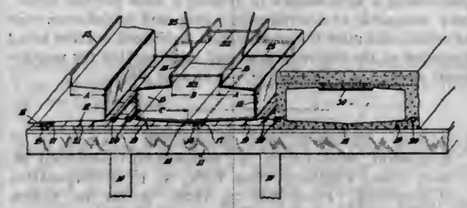
1. A stoker of the class described having, in combination, an endless traveling grate divided longitudinally into two sections arranged side by side and spaced a slight distance apart so as to form a fuel supporting and propelling surface substantially continuous throughout its width, a supporting structure to prevent sagging of the upper run of the grate arranged between the upper and lower runs of the grate and over which the upper run passes, an I-beam extending longitudinally of the grate with its web extending through the space between the lower runs of said sections and upon which said supporting structure is mounted, means for closing the space between the upper runs of said sections throughout substantially the length



thereof, and pillars upon which said I-beam is mounted, the space between said sections being only sufficient to permit the sections to clear the web of the I-beam.

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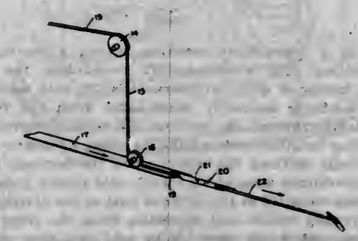
1,690,864. CONCRETE-MOLDING APPARATUS. WILLIAM KLEITZ, Albany, N. Y. Filed Sept. 3, 1927. Serial No. 217,324. 6 Claims. (Cl. 25—131.5.)



1. Apparatus of the character described comprising a pair of similarly shaped sections having sloping bottoms, vertical risers and sloping tops having a portion thereof, extending at an angle from the remainder thereof and means for spacing said sections whereby the bottoms thereof overlap each other.

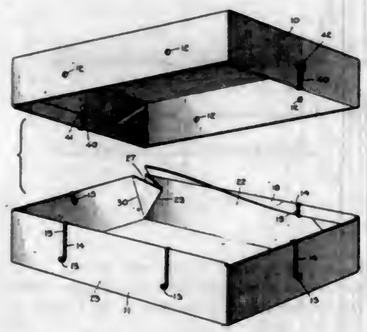
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1,690,865. METHOD OF MAKING TIE ELEMENTS. HENRY E. KONDOLF, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 4, 1926. Serial No. 133,680. 7 Claims. (Cl. 153—1.5.)



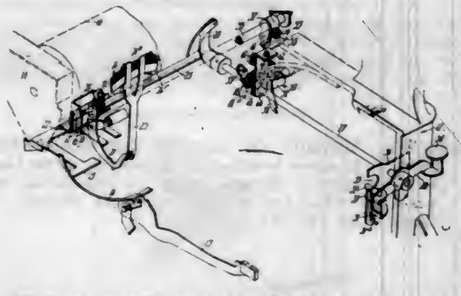
1. In a method of making tie elements of the character described, the steps which comprise guiding a midportion of a continuous tie into adjacent position with respect to the end of a continuous strip, severing said end along a line forming an acute angle with the longitudinal axis of the strip and associating it with said midportion to form a sheath for the latter, and then advancing both the tie and the strip to bring another midportion of the tie into similar adjacence with respect to the newly produced end of the strip.

1,690,866. PILFERPROOF BOX. JOSEPH KRAMER, New York, N. Y., assignor to The Lox Seal Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 26, 1925. Serial No. 18,558. 7 Claims. (Cl. 229—46.)



3. In a box construction, a box member formed by folding an integral blank along predetermined lines, whereby multi-ply portions are produced, said portions presenting an upper folded-over edge and a resilient clip element for retaining said member in set-up condition, said element comprising a wire shaped to provide a hook portion removably clampable at desired points over said folded-over edge to retain said plies in superposition, said hook portion being provided at its end with a second hook portion for engagement about the free edge of one of said plies.

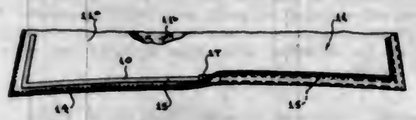
1,690,867. TYPEWRITING MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 22, 1925. Serial No. 45,204. 14 Claims. (Cl. 197—157.)



12. In a typewriting machine having a carriage, the combination with a ribbon-shift mechanism, the ribbon having bands of different characteristics, said mechanism being normally manually controllable from the front of the machine through the medium of a rockable switch-shaft extending longitudinally of the machine, of means for automatically shifting the ribbon when the carriage reaches a predetermined zone of its travel, said means including a cam-piece mounted at the forward part of the carriage so as to be readily visible and accessible from the front of the machine, and means operated by said cam-piece and connected to said switch-shaft for rocking the latter to bring another of said bands into operative position.

1,690,868. COLLAR. WILLIAM J. LA ROSE, North Troy, N. Y. Filed May 24, 1927. Serial No. 193,797. 1 Claim. (Cl. 2—132.)

The method of constructing a double fold soft collar which consists in providing a duality of plies for the outer fold, stitching said plies together at the ends and one side edge, applying a stiffener along the stitched edges but inset from the same, folding the stitched edges over the stiffener and securing them to the body portion



of the plies, and finally turning the plies inside out to dispose the stiffener at the bottom and front edges of the fold.

1,690,869. HÆMOSTATIC. FREDERICK MARTINEZ and ADOLFO GÓMEZ, New York, N. Y. Filed Aug. 10, 1926. Serial No. 128,516. 6 Claims. (Cl. 167—7.)

1. A medicinal preparation comprising the medicinally active content of the fibres of the outside of the fruit of the *Cocos nucifera*.

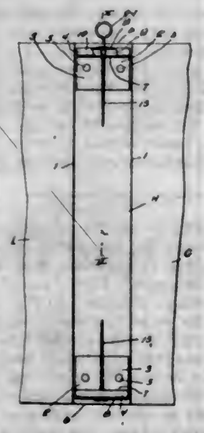
6. A hæmostatic comprising an aqueous extract of the fibers of the outside of the fruit of the *Cocos nucifera*.

1,690,870. STRINGED MUSICAL INSTRUMENT. CHARLES H. MERRITT, Bellingham, Wash. Filed Oct. 9, 1926. Serial No. 140,471. 9 Claims. (Cl. 81—269.)



1. The combination, in a stringed musical instrument, of a head comprising a rim and a membrane, a neck supported between its ends in said head for free vibration relative thereto, vibratory strings, a nut on the outer end of said neck forming a bearing for one end of said strings, their other end being secured to said rim, a bridge interposed between said strings and said membrane, and means operatively connected with said pivoted neck for transmitting its vibrations to the membrane.

1,690,871. TEMPORARY BINDER. MAX MEYERSON, New York, N. Y. Filed June 9, 1926. Serial No. 114,843. 5 Claims. (Cl. 129—40.)



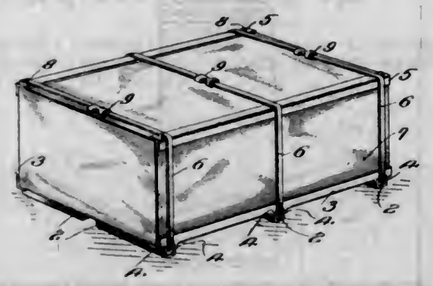
3. A temporary binder comprising a back portion, a pair of holders connected with the back portion adjacent opposite ends thereof, retaining members carried by said holders, one of said holders having an opening therethrough in the direction of the length of the back portion, and the retaining member of said holder extending through said opening, said retaining member comprising a pair of spring arms connected together at their entering end and said retaining member having a shoulder thereon for engaging a part of the holder to hold the retaining member in retaining position.



1,690,872. NITROGLYCERIN DYNAMITE. THOMAS O'HERN, Kew Gardens, N. Y., assignor to Arthur T. O'Hern, Kew Gardens, N. Y. Filed Apr. 2, 1926. Serial No. 99,404. 2 Claims. (Cl. 52—11.)

1. A sixty percent nitroglycerin dynamite containing sixty-four parts by weight of sodium nitrate, thirty parts by weight of infusorial earth, twenty parts by weight of comminuted wood product, three parts by weight of potassium nitrate, three parts by weight of ground magnesium carbonate, and one hundred eighty parts by weight of nitroglycerin.

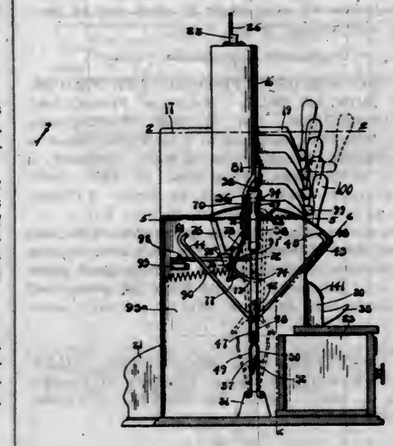
1,690,873. PACKAGING DEVICE FOR METAL SHEETS. JAMES H. O'NEIL, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 9, 1926. Serial No. 128,147. 1 Claim. (Cl. 206—60.)



Packaging devices for metal sheets comprising a supporting means having legs permanently attached thereto and transportable with the package, angle members independent of the supporting means and forming therewith a supporting base on which the metal sheets may be stacked with said angle members disposed at the sides and with one portion of the members extending along the side face of the stack and the other portion beneath the stack, spaced lugs formed on the said angle members adapted to lie on opposite sides of the legs for preventing the angle members from moving endwise of the base, and baling means adapted to pass about the stacked sheets for securing the sheets to the base.

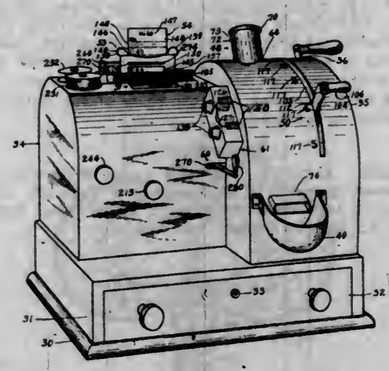
1,690,874. ISSUING AND RECORDING TRADE-CHECK-CREDIT MACHINE. WILEY W. OSBORNE, Cincinnati, Ohio, assignor, by direct and mesne assignments, to The Osborne Credit Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 10, 1920, Serial No. 395,220. Renewed Aug. 8, 1928. 9 Claims. (Cl. 234—1.)

1. In a trade-check issuing register, a card receptacle adapted to receive two record cards oppositely faced, a set of type bars mounted in back of said receptacle, a set of type bars mounted in front of said receptacle corresponding to said set of type bars mounted in back of said receptacle forming pairs with like type characters facing said card receptacle, depending prongs for said type bars, a spring functioned operating mechanism



adapted to swing said type bars on their pivot, bringing type characters toward one another, and means to operate said type bars.

1,690,875. TRADE-CHECK CREDIT MACHINE. WILEY W. OSBORNE, Cincinnati, Ohio, assignor to The Osborne Credit Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 4, 1922. Serial No. 579,628. 8 Claims. (Cl. 133—4.)



1. In a trade check credit machine, trade check storing means for carrying a supply of trade checks representing like units of value, trade check ejecting mechanism capable of ejecting from said storing means one or more checks representing, respectively, one of said units of value or various multiples thereof, and comprising a rockable shaft, a ratchet wheel journaled freely thereon, a lever fixed to said shaft adjacent said ratchet wheel, a pawl pivotally mounted on said lever adapted for normal engagement with said ratchet wheel to rotate the latter to a varying degree, a rotatable shaft, a crank on

said shaft, a slide operable below said storing means for ejecting checks therefrom, a mechanical connection between said slide and said crank, and gearing between said ratchet wheel and said rotatable shaft whereby varying degrees of rotation of said ratchet wheel causes one or more revolutions of said crank to eject one or more checks from said storing means.

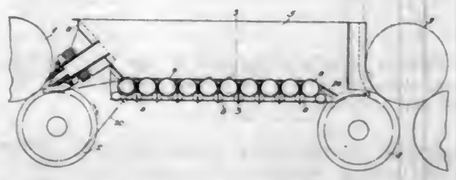
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1,690,876. PROCESS OF IMPROVING THE PROPERTIES OF MONTAN WAX. WILHELM PUNGS, Ludwigshafen-on-the-Rhine, and MICHAEL JAHRSTORFER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 10, 1927, Serial No. 218,853, and in Germany Sept. 13, 1926. 3 Claims. (Cl. 196—21.)

1. The process of improving the properties of Montan wax which consists in treating Montan wax with chromic acid in the presence of glacial acetic acid and small quantities of an acid substance selected from the group consisting of sulfuric acid and acid salts of polybasic acids.

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1,690,877. CONVEYER FOR SUGAR-CANE MILLS. WILLIAM A. RAMSAY, Honolulu, Territory of Hawaii. Filed Dec. 2, 1927. Serial No. 237,299. 6 Claims. (Cl. 198—127.)



6. A conveyer comprising a plurality of conveyer rollers, mounted on anti-friction bearings and arranged in parallelism in a train, a partition extending upwardly between each adjacent pair of conveyer rollers, a platform carried by the upper partition and located in a plane immediately below the plane of the top of said conveyer rollers, each of said partitions being provided with a slot immediately below said platform, a friction roller loosely mounted in said slot, and having operative contact with each of the conveyer rollers adjacent said partition, and means for driving any conveyer roller of the train, substantially as described.

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1,690,878. AIRSHIP. VINCENT CRANE RICHMOND and GEORGE HERBERT SCOTT, Cardington, England. Filed Dec. 15, 1927, Serial No. 240,303, and in Great Britain Oct. 12, 1926. 9 Claims. (Cl. 244—3.)

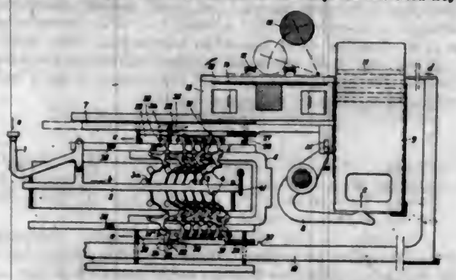


1. In an airship embodying a hull framework and a cover fabric stretched thereover, means for tautening the cover fabric, said means acting to force the cover fabric in a direction transverse to its surface relative to the hull framework.

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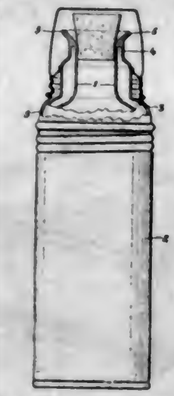
1,690,879. LINE-PRINTING TYPEWRITER OR THE LIKE MACHINE. WERNER SCHÄFFER, Laupen, near Bern, Switzerland, assignor to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland, a Firm. Filed May 4, 1926, Serial No. 106,668, and in Germany May 6, 1925. 35 Claims. (Cl. 101—93.)

1. In a machine of the character described, a plurality of rows of abutments arranged substantially parallel to each other, a keyboard for selecting an abutment in each said rows according to the depression of the keys of the said keyboard, a common carrier for said rows, movable in the direction of a row and a plurality of members each adapted to be engaged by a selected abutment.



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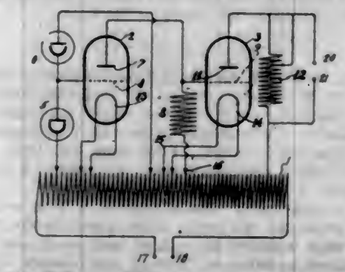
1,690,880. VACUUM-JACKETED VESSEL. OTTO TRAUGOTT KARL SCHMIDT, Altenfeld, Germany. Filed Dec. 7, 1926, Serial No. 153,161, and in Germany Mar. 23, 1926. 1 Claim. (Cl. 215—13.)



A vacuum bottle, comprising a double walled glass vessel having a neck provided with a filling opening, the outer wall of said neck being reduced in diameter adjacent said filling opening and the inner wall of said neck merging with the reduced portion of said outer wall at said filling opening to form a lip of substantially the same diameter as the unreduced portion of said outer wall.

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1,690,881. CIRCUIT FOR AMPLIFYING DIRECT OR ALTERNATING CURRENTS BY VACUUM TUBES. GÜNTHER THILO, Friedenau, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1924, Serial No. 757,885, and in Germany Jan. 5, 1923. 8 Claims. (Cl. 179—171.)

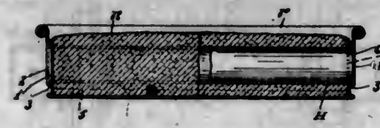


1. A circuit for amplifying electric current, comprising a potentiometer having its terminals connected to the opposite leads of a supply circuit, vacuum tubes, each having an anode, a cathode, and a grid, the anode of one tube being united to the grid of another of said tubes, and connections between the tubes and the potentiometer at such points that the voltage on said last-named grid due to anode current is compensated.

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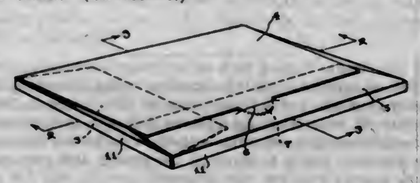
1,690,882. ART OF BAKING. CHARLES WEAR, Waltham, Mass., assignor of one-half to Joseph Pollak. Filed Nov. 21, 1927. Serial No. 234,683. 6 Claims. (Cl. 107—54.)



1. In the method of baking an article in the form of a roll or loaf having formed therein during the process of baking a longitudinally extending opening adapted to receive an edible filling, as a Frankfort, the steps which consist in forming a piece of dough around a core, in removably supporting such core with the adhering dough thereon within a baking pan, and in such relation to the pan walls as to allow the cores and dough adhering thereon to rise vertically away from the pan bottom in a straight line upward lifting movement when exposed to baking heat, in exposing the same to baking heat whereby to bake the roll or loaf both inside and out, in removing the core with the baked roll or loaf thereon from the pan, and in finally withdrawing the core from the baked roll or loaf.

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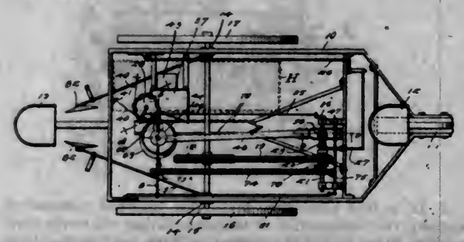
1,690,883. HOSIERY CARTON. WALTER R. ZIEGLER, Riverside, N. J. Filed Aug. 23, 1927. Serial No. 214,927. 1 Claim. (Cl. 206—7.)



A hosiery carton comprising a bottom portion, end sections and side sections, an upper flap element extending from a side section, a tab member projecting therefrom, a plurality of intermediate flap portions foldably connected to the end and side sections, one of the intermediate flap elements having a slot for receiving the tab, another intermediate flap element being formed approximately of the same size as the upper flap and having a slot therein for receiving the hosiery in folded relationship thereon.

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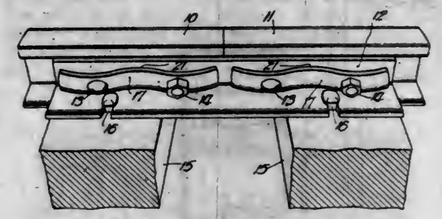
1,690,884. PLANTER. HERBERT B. BONEBRIGHT, Chinook, Mont. Filed Mar. 26, 1927. Serial No. 178,728. 13 Claims. (Cl. 140—57.)



1. In a potato planter, means for dividing the potatoes into sections comprising a plurality of knives and means for successively positioning the knives for the cutting operation and means for disinfecting each knife after the cutting operation.

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1,690,885. RAIL JOINT. BYRON M. CHENEY, Chicago, Ill. Filed Apr. 20, 1927. Serial No. 185,097. 14 Claims. (Cl. 238—259.)



1. A rail joint spring for application to a bolt secured rail joint, said spring comprising a section of sheet like spring material shaped to be tensioned by the bolts, and means for preventing the tensioning of such spring beyond the elastic limit thereof.

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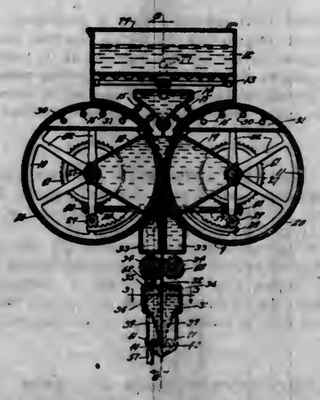
1,690,886. SNOW SCRAPER. PETER A. CROMBIE, Jr., Thompsonville, Conn. Filed Dec. 2, 1927. Serial No. 237,181. 6 Claims. (Cl. 37—42.)



1. A snow scraper comprising runners, a blade pivotally mounted between said runners, and a pusher having parts pivotally connected with said blade, and parts unconnected with but adapted to receive and support said blade below its pivotal connections with said runners, when the blade is in operative position.

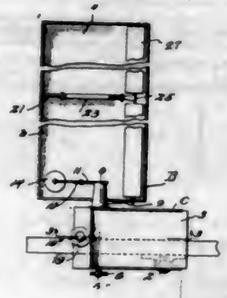
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1,690,887. PROCESS AND MACHINE FOR THE MANUFACTURE OF STORAGE-BATTERY PLATES. JASPER N. DAVIS, Denver, Colo. Filed June 5, 1926. Serial No. 113,879. 5 Claims. (Cl. 207—14.)



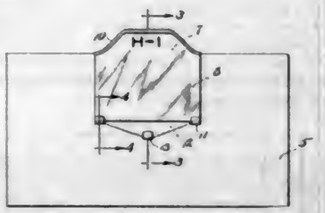
1. A machine for forming a continuous casting from molten metal comprising two co-acting series of traveling molds arranged to receive said metal between them and form sides for a traveling mold; tapered projections on the molds of one series adapted to alternately project between similar projections on the molds of the other series to form a perforated casting having alternately tapering perforations.

1,690,888. INK-SUPPLYING MEANS FOR PRINTING PRESSES. ARTHUR S. J. DAWE, Baltimore, Md. Filed Oct. 5, 1927. Serial No. 224,156. 3 Claims. (Cl. 101—210.)



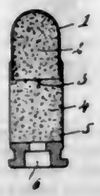
1. The combination with a printing press including an ink fountain and a ductor roller for feeding ink from said fountain, of an ink reservoir supported above the fountain, said reservoir having an outlet to permit ink to flow into the fountain, a valve controlling said outlet, and a float in the fountain connected to said valve.

1,690,889. INDEX GUIDE CARD. GEORGE H. DAWSON, Boston, Mass., assignor to Service Bureau, Inc., Cambridge, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1927. Serial No. 178,615. 7 Claims. (Cl. 129—16.8.)



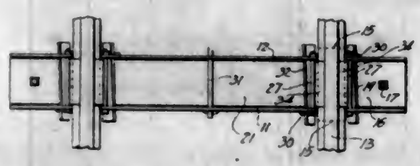
1. An index card provided with a projecting tab and having a metal reinforcing plate upon the rear face of the card, said plate having integral tongues at its bottom edge adapted to fasten through the card at points remote from the upper margin of the card, and having an intermediate portion extending downwardly below said tongues.

1,690,890. BLANK CARTRIDGE. MAURICE DE GEYNST, Forest-Brussels, and IVAN LEPAGE, Dieghem, Belgium. Filed Nov. 30, 1927, Serial No. 236,724, and in Belgium Nov. 30, 1926. 3 Claims. (Cl. 102—12.)



1. A blank cartridge for firearms comprising a cartridge case, a dummy bullet secured in the front of said case, a charge disposed within said case of two or more explosives of different degrees of inflammability whereby an interval is obtained between the time of explosion of the portions of the charge which results in a re-coil which effects the automatic ejection of the empty case.

1,690,891. RAILROAD TIE. THOMAS DE LA MARE, Salt Lake City, Utah. Filed Nov. 3, 1925. Serial No. 66,559. 5 Claims. (Cl. 238—63.)



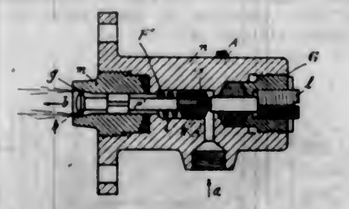
1. A tie comprising a channel body member and wedge operated clamping means for securing rails thereto, said clamping means extending continuously from inside of one rail to inside of the other rail, and from each rail outwardly beyond said wedge.

1,690,892. CAN CLOSURE. JOHN CLEAVER DIAMENT, Bridgeton, N. J. Filed Aug. 2, 1926. Serial No. 126,601. 1 Claim. (Cl. 220—82.)



A can closure formed with an opening therein, a portion of the closure adjacent the opening being depressed inwardly from the normal outer face of the closure to form a relatively wide inwardly directed and upwardly inclined seat surrounding the opening, a gasket received on the seat, a transparent insert received on the gasket, and a portion of the closure adjacent the depressed portion and the periphery of the insert being depressed over the outer face of the insert to force the insert into tight engagement with the gasket and to compress the gasket into tight engagement with the seat.

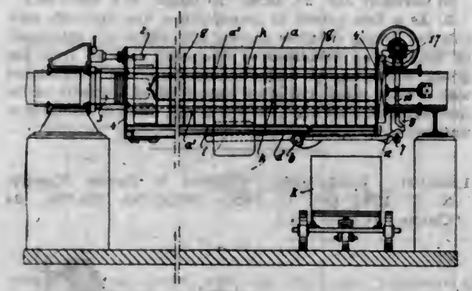
1,690,893. INJECTION NOZZLE. HERMANN DORNER, Hanover, Germany. Filed July 27, 1925, Serial No. 46,383, and in Germany Apr. 3, 1924. 6 Claims. (Cl. 299—133.)



1. In a fuel admission device for internal combustion engines, the combination of two cooperating relatively movable members together adapted to form an annular line contact and means for effecting a high resistant pressure against the movement of one of said members away from the other said means being substantially inactive when said members are in position of closest approach.

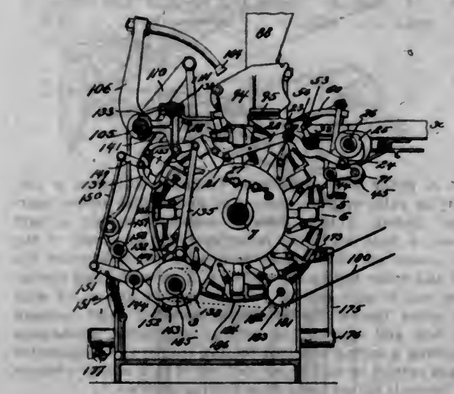


1,690,894. PRESS FOR TREATING BOARDS OF ALKALI CELLULOSE AND THE LIKE. WILHELM DÜTZMANN, Neustadt-on-the-Haardt, Germany. Filed Feb. 27, 1926, Serial No. 91,161, and in Germany Jan. 2, 1926. 3 Claims. (Cl. 260—10.)



1. Horizontal press for treating articles in alkalies and acids having corrosive properties, more especially boards of alkali cellulose for the manufacture of artificial silk comprising in combination with a horizontal press cylinder, pistonrod and pressing head, a water-tight steeping trough receiving the pressing head and pistonrod, the latter passing water-tight, through the corresponding front wall of the trough, the opposite stationary front wall of the latter receiving the full pressure of the pressing head, a perforated intermediate bottom within the trough, a discharging opening provided for in the bottom of the trough, a shutting flap adapted to close tight to liquid the said opening, intermediate metal sheets for separating and supporting the different boards, guiding bars for the intermediate sheets and means for tightening the flap, substantially as described.

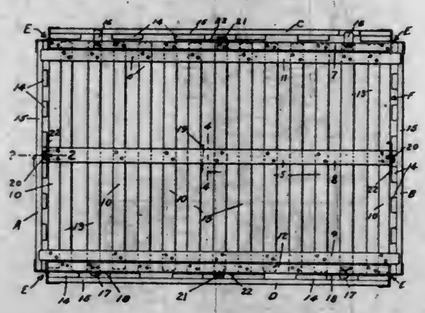
1,690,895. PACKAGING MACHINE. LOUIS FISCHER, Philadelphia, Pa., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C., a Corporation of West Virginia. Filed Feb. 2, 1927. Serial No. 165,410. 21 Claims. (Cl. 93—7.)



1. In a packing machine, the combination of a mold, means for feeding a wrapper into a position adjacent to the mold, means to receive the wrapper from the feeding means and operative to further feed and thus register it relatively to the mold, and means operative upon the registered wrapper to introduce it into the mold.



1,690,896. CRATE. CORNELL FLAGSTAD, Minneapolis, Minn., assignor of ninety-five per cent to The Folding Crate and Box Co., a Corporation of Minnesota, and five per cent to Oscar A. Flagstad, Minneapolis, Minn. Original application filed Nov. 26, 1923, Serial No. 677,175. Divided and this application filed May 9, 1927. Serial No. 189,807. 10 Claims. (Cl. 217—56.)



1. The combination with a crate, of a cover therefor adapted to be sprung in respect to its normal position of rest on the box and having fasteners rigidly secured thereto for interlocking engagement with side sections of the crate, said fasteners being arranged to be held in interlocking engagement by the spring tension of the cover.

1,690,897. CARRIER FOR BRAIDING MACHINES. CHARLES HAGGERTY, Pawtucket, R. I., assignor to New England Butt Company, Providence, R. I., a Corporation of Rhode Island. Filed Feb. 9, 1928. Serial No. 252,960. 6 Claims. (Cl. 96—15.)

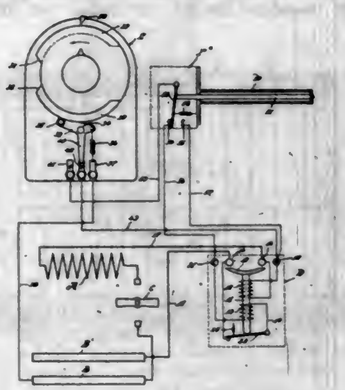


1. A carrier for braiding machines having a package spindle, a weight guide standard, a tension weight slidable on the standard, a rod carried by the weight, a spring coiled about the rod to act upon the weight, and a feed control latch operated by the movement of said weight.

1,690,898. TIME AND TEMPERATURE CONTROL OF HEATING ELEMENTS. GEORGE HEGEMAN HART, West Hartford, Conn. Filed Mar. 4, 1927. Serial No. 172,662. 6 Claims. (Cl. 219—20.)

4. In combination, a circuit including a heating element, a magnetic device having a main switch interposed in said circuit and having an opening coil in series with said switch, said device also having an auxiliary switch controlled by said main switch and a closing coil in series with said auxiliary switch, a timing mechanism having a

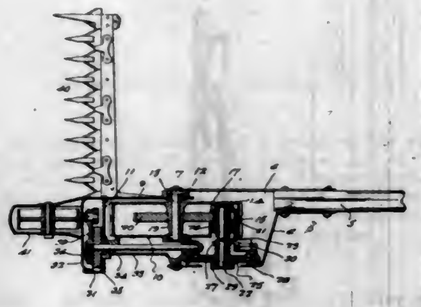
switch, a thermostatic device having a switch, and electrical connections between said time switch and opening coil independent of said thermostatic switch, between said



time switch and thermostatic switch, between said thermostatic switch and said opening coil, and between said thermostatic switch and said closing coil.

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1,690,899. LAWN MOWER. JOHN FRED HAWKINS, Pawhuska, Okla. Filed Feb. 5, 1926. Serial No. 86,210. 1 Claim. (Cl. 56—271.)



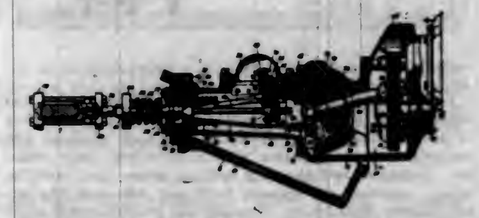
In a lawn mower of the character described, a gear casing comprising a central housing, a sub-housing at the rear of the central housing, and a front housing forwardly of the central housing, a traction wheel mounted within the central housing and projecting therethrough at the lower side for contact with the ground, and comprising a peripheral rim into which the subhousing extends, a gear carried by the traction wheel within the rim thereof, a transverse shaft mounted within said sub-housing, a gear upon one end of this shaft in mesh with the first mentioned gear, a gear upon the opposite end of said shaft, a horizontal shaft housing upon one side of the central housing and forming part of the gear casing, a horizontal shaft within said horizontal shaft housing, a gear upon the rear end of the shaft in mesh with the gear upon the last mentioned end of the shaft within said sub-housing, a sickle bar unit mounted upon the front end of the gear casing, and driving connections between the front end of the horizotal shaft and the cutter bar of said sickle unit.

1,690,900. MANUFACTURE OF AZO DYESTUFFS. KARL HOLZACH, Ludwigshafen-on-the-Rhine, and RICHARD MEYERGR, Heidelberg, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 3, 1927, Serial No. 158,819, and in Germany Jan. 23, 1926. 2 Claims. (Cl. 260—86.)

2. As a new article of manufacture, azo dyestuffs suitable for dyeing cellulose acetate silk which are obtainable by coupling an unsulfonated compound selected from the group consisting of hydroxy-quinolines and pyrazolones with a diazo compound of an unsulfonated aromatic amine containing at least one aldehyde group, and are insoluble in water.

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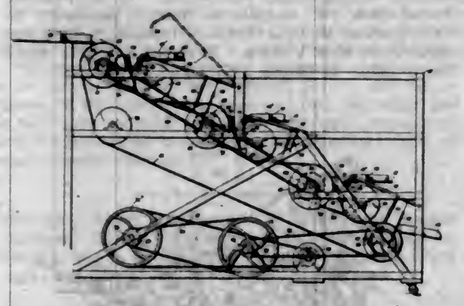
1,690,901. VIBRATOR. ULYSSES S. JAMES, Newark, N. J. Filed Dec. 14, 1926. Serial No. 154,760. 24 Claims. (Cl. 74—14.)



1. A vibrator comprising a vibratory element, a member having a gyratory motion in an orbit around the axis of vibration of said element and means operative by said gyratory motion to vibrate said element.

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1,690,902. AUTOMATIC PAPER-FOLDING MACHINE. WILLIAM J. JEFFRIES and SCOTT W. GIBBONS, Portland, Oreg. Filed Dec. 5, 1927. Serial No. 237,837. 4 Claims. (Cl. 270—81.)



1. A paper folding machine including a frame, a plurality of pairs of paper delivering and folding rollers journaled therein, a belt operably connected to all of said rollers, a final delivering roller operably connected to the belt, means operably connected to said rollers whereby the belt and other rollers are operated, a paper folding mechanism, one to each pair of rollers, operably associated with one roller thereof for delivering a folded sheet between the belt and one of the rollers, said latter mechanism including a spring-actuated folding frame, and cooperative means carried by said frame and one of said rollers whereby the frame is moved away from folding position.

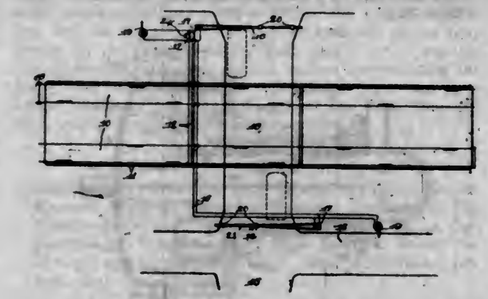
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1,690,903. SYSTEM FOR PROTECTING HIGHWAY CROSSINGS AT THE RIGHT OF WAY OF RAILWAYS. PAUL J. KAVENEY, Bloomington, Ill. Filed Oct. 1, 1924. Serial No. 740,961. 1 Claim. (Cl. 246—125.)

An improved system of protecting a crossing over a railway right of way in a case where there are highways



on opposite sides and paralleling the right of way and a highway crossing said right of way, comprising crossing gates movable across and away from the latter highway,



semaphores associated with the other two highways at some distance from the crossing, and train-controlled circuits for operating said gates and highway semaphores.

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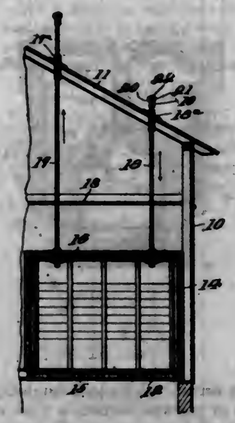
1,690,904. CUTTER OR KNIFE FOR MEAT-GRINDING MACHINES. CHARLES A. LAEMMEL, Brooklyn, N. Y., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 227,486. 4 Claims. (Cl. 146—189.)



1. A cutter for a meat grinder comprising a spider, said spider comprising a shaft and the spider arms in fixed relation with the shaft, outwardly extending pins on the spider, a knife provided with holes to fit on the pins of the spider and said knife being quickly detachable from the spider.

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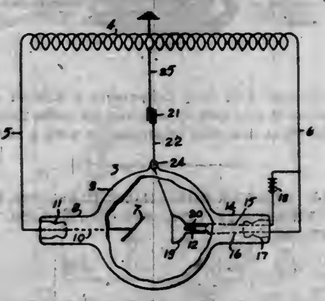
1,690,905. VENTILATING SYSTEM. FRANCIS E. MCDEVITT and HORACE A. COLBURN, Rutland, Vt. Filed Mar. 27, 1926. Serial No. 97,955. 4 Claims. (Cl. 98—35.)



1. In a ventilating system for a humid apartment, inlet and outlet pipes opening into said apartment cooled directly by ice exposed in the air in said apartment at the ceiling, said pipes extending upwardly and opening to the atmosphere, said outlet pipe having a greater length exposed to the atmosphere below its upper opening than has said inlet pipe.

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1,690,906. X-RAY APPARATUS. MONTFORD MORRISON, New York, N. Y. Filed Dec. 1, 1921. Serial No. 519,155. 6 Claims. (Cl. 250—84.)



1. An electron discharge device comprising an anode and a cathode, a source of alternating current connected to said anode and cathode, and means disposed between said cathode and anode and connected to said source of alternating current for maintaining a negative electrostatic field adjacent said cathode.

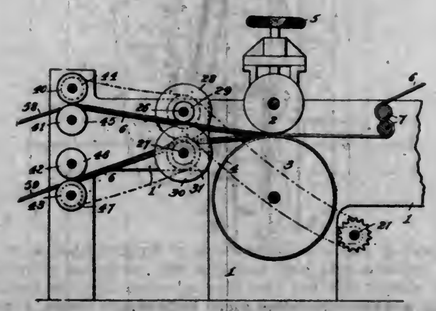
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1,690,907. PROCESS OF FLOTATION CONCENTRATION. ROBERT E. PHELAN and SHERWIN P. LOWE, Denver, Colo., assignors to R. H. Channing, jr., Agent, Denver, Colo. Filed Oct. 18, 1927. Serial No. 227,048. 4 Claims. (Cl. 209—166.)

1. In a froth flotation process, the method of separating micaceous and talcky minerals from the concentrates comprising the addition of starch to the ore pulp and making the pulp non-alkaline to prevent the said minerals from entering the froth, and then subjecting the ore pulp to froth flotation.

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1,690,908. MACHINE FOR FORMING SHINGLES. FREDERICK W. PRESTON, York, Pa., assignor to Keystone Roofing Manufacturing Company, York, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,226. 8 Claims. (Cl. 164—28.)



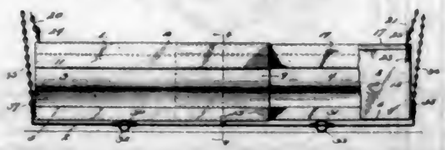
6. An attachment for a machine, wherein material is cut on longitudinal lines to form a plurality of rows and on transverse lines to divide the rows into a plurality of members, said attachment being movable as a unit relative to the machine and including means for positioning the rows in different planes, and means for separating the members in each row at the transverse cuts.

1,690,909. TUBULAR FIBROUS WALL PLUG. JOHN JOSEPH RAWLINGS, South Kensington, London, England, assignor of one-half to The Rawlplug Company Limited, London, England. Filed Mar. 26, 1926, Serial No. 97,801, and in Great Britain Mar. 28, 1925. 4 Claims. (Cl. 72—105.)



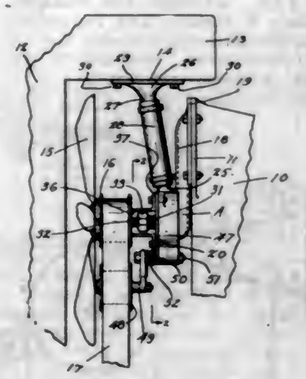

1. A tubular wall plug comprising a number of twisted fibrous strands laid side by side and an inner tubular lining of fibrous sheet material impregnated with a lubricant.

1,690,910. FLOWER BOX. HARRY D. SHAPIRO, Newburgh, N. Y. Filed Oct. 29, 1927. Serial No. 229,660. 3 Claims. (Cl. 47—36.)



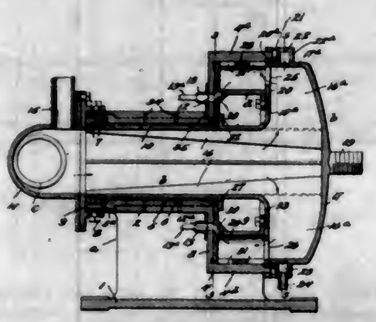
1. An adjustable window box comprising telescoping sections, clamping means for said sections, each section having apertures in the bottom portion thereof, the apertures of one section registrable with the apertures of the other, the said apertures permitting passage of said clamping means, said apertures also functioning as drains for said window box, and a drain tray for said window box.

1,690,911. WATER-CIRCULATING PUMP FOR MOTORS. CHARLES H. SHIRK, St. Paul, Minn. Filed May 18, 1923. Serial No. 639,879. 3 Claims. (Cl. 103—103.)



2. A water circulating pump including, a casing, a detachable cover for said pump, a shaft extending through said cover, a pump member secured to one end of said shaft, a pulley member secured to the other end of said shaft, a stuffing box mounted upon said cover, a bracket secured to said cover interposed between said pulley and said cover, and a long bearing supported solely by said bracket to support said shaft virtually entirely separate from said casing.

1,690,912. HYDROAIR COMPRESSOR. WILLIAM S. SULLIVAN, Washington, D. C., assignor of forty-five per cent to James G. Cumming, Washington, D. C. Filed July 30, 1927. Serial No. 209,572. 8 Claims. (Cl. 230—75.)

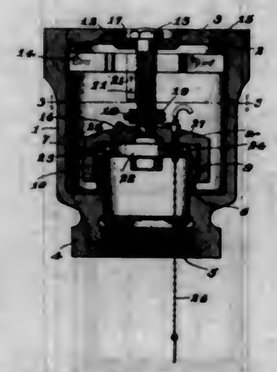


1. An air compressor comprising a rotor having a head adapted to contain liquid, a chamber carried by said head, means for admitting air to the chamber, means for confining the air therein, means for admitting liquid from the head into the chamber to compress the air, means for releasing the compressed air, and means for expelling the liquid centrifugally from the chamber.

1,690,913. MANUFACTURE OF VAT DYESTUFFS OF THE ANTHRAQUINONE-ACRIDONE SERIES. OSKAR UNGER, Ludwigshafen-on-the-Rhine, and GEORG BÖHNER, Friedrichsfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 25, 1926, Serial No. 144,169, and in Germany Oct. 29, 1925. 3 Claims. (Cl. 260—37.)

1. The process of preparing vat dyestuffs of the anthraquinone series which consists in heating a 1-chlor-anthraquinone-2-carboxylic acid and an arylamine in an inert organic solvent until the formation of dyestuff has taken place.

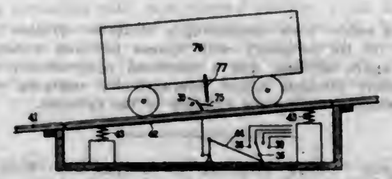
1,690,914. FLUSH-SURFACE FILL DEVICE. ARTHUR THOMAS WAKEFIELD, Baltimore, Md., assignor to American Oil Company, Baltimore, Md. Filed Feb. 14, 1927. Serial No. 168,160. 4 Claims. (Cl. 220—86.)



1. In a flush surface fill device comprising a casing having open ends at top and bottom, a flush cap for the top opening, a threaded portion at the bottom opening for connecting with a fill pipe of a storage tank, a threaded lock bar and bolt slidably arranged in the flush cap, means for bringing the flush cap under tension in closed relationship at the top opening comprising an inwardly extending shoulder portion of the casing, lug portions extending downwardly from the shoulder against which the ends of the lock bar are adapted to bind, an upwardly open ended extending portion within the casing delivering into the fill pipe of the storage tank for giving easy access on the removal of the flush cap, a sleeve cap for the upwardly extending portion, means for bringing the sleeve cap into interlocked relationship with the open ended upwardly extending portion at the same time the flush cap is being brought under tension.



1,690,915. APPARATUS FOR TRANSMITTING SIGNS. KARL E. WENZEL, Hamborn, Germany, assignor to The Hannauer Car Retarder Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1926, Serial No. 113,029, and in Germany June 5, 1925. 13 Claims. (Cl. 104—26.)

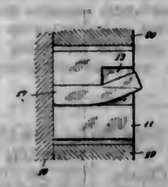


10. In apparatus for weighing cars the combination with a weighing platform, an electric circuit having a plurality of branches and including two switches, one of said switches arranged at the point of branching and adapted to be closed through one or another of said branches by the movement of the platform under the weight of the car, the other switch, arranged in the unbranched portion of the circuit, adapted to be closed by the movement of the car over the platform, and registering means including an electro-magnet arranged in each branch of said circuit.

1,690,916. METHOD OF REDUCING OXIDES TO METALLIC FORM. SIGUARD WESTBERG, Pittsburgh, Pa. Filed July 16, 1925. Serial No. 44,109. 2 Claims. (Cl. 75—17.)

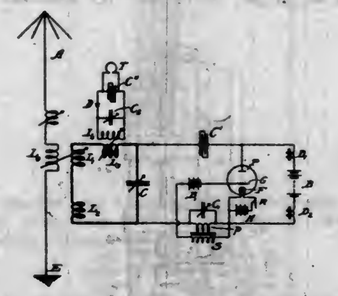
1. The method of reducing oxides or oxide ores to metallic form which consists in bringing together such oxides or ores and carbonaceous material in the presence of sufficient heat to effect a reaction therebetween and in converting the carbon monoxide formed during such reaction into hydrogen or a hydrogenous gas and in introducing such gas or hydrogen into the reaction zone.

1,690,917. METHOD OF MAKING COMMUTATOR SEGMENTS AND THE LIKE. RICHARD LESTER WILCOX, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 7, 1926. Serial No. 107,382. 6 Claims. (Cl. 78—81.)



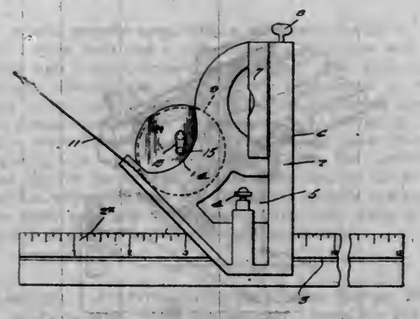
1. A method of producing an article of manufacture, consisting in applying pressure to the sides of a bar whereby one portion of the bar is caused to flow and lie at an angle to the remainder of the bar and then upsetting the bar by applying pressure to the angular portion in a direction axially of the said remainder of the bar.

1,690,918. TONE RECEIVER FOR UNDAMPED OSCILLATIONS. JONATHAN ZENNECK, Munich, Germany, and ERNST KNOPP, New York, N. Y. Filed Apr. 28, 1923. Serial No. 635,311. 1 Claim. (Cl. 250—20.)



In an arrangement for receiving and detecting undamped high frequency oscillations, the combination of a receiving circuit for receiving said undamped high frequency oscillations, a local high frequency oscillating circuit associated therewith, and a local low frequency impulse generator circuit coupled with said local high frequency oscillating circuit, and a detector circuit suitably connected to receive the resulting oscillations produced in said local high frequency oscillating circuit and including an aural receiver for producing audible tones from the received high frequency current and the adjacent harmonics of the superimposed low frequency current.

1,690,919. MEASURING DEVICE. DANIEL E. BAINE, Stockton, Calif. Filed June 1, 1927. Serial No. 195,704. 2 Claims. (Cl. 33—174.)

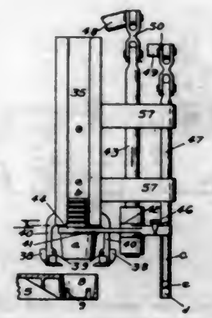


1. A body adapted to be attached to a rule to extend laterally therefrom and having a side edge disposed to extend at right angles to said rule and also having another edge extending at an oblique angle to the first mentioned edge and having a tape guide, said body having means for holding the casing of a tape measure, said means being in the form of a pocket having one of its side walls cut away and its other side wall provided with a transverse threaded aperture, in combination with a tape measure casing disposed in said pocket and having a tape threaded through said guide and also having rotary means at one side of its casing for the retraction

of the tape, and a screw mounted in the said threaded aperture of the pocket wall and adapted to be set against the tape measure casing for the fastening of said casing in the body.

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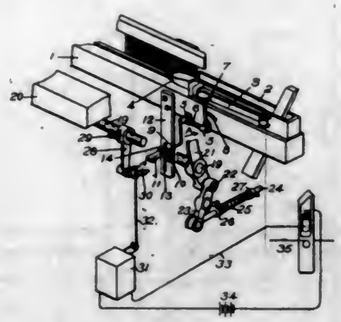
1,690,920. CUP-DEPOSITING MECHANISM FOR UNIT-MEASURING MACHINES. CHRISTIAN N. BERGMANN, Pittsburgh, Pa.; ELMER Z. TAYLOR, Newark, N. J.; and CYRUS TAYLOR, Hartford, Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa., a Corporation of Delaware. Filed July 2, 1925. Serial No. 41,105. 15 Claims. (Cl. 312—44.)



1. Mechanism for separating the lowermost one from a nested series of receptacles consisting of a pair of vertically and laterally movable gripping jaws, means for closing the jaws to embrace a lowermost receptacle, means for opening the jaws to release said receptacle, and means for moving the jaws to position to embrace an adjacent receptacle and move it and superimposed receptacles upwardly.

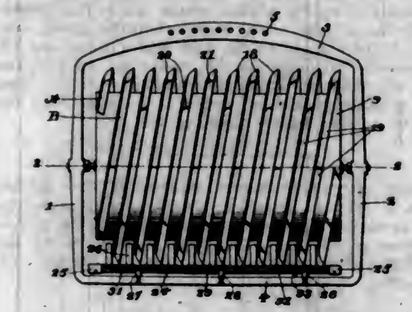
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1,690,921. WARP STOP MOTION FOR LOOMS. HUDGER BRUNEAU, Woonsocket, R. I., assignor to Rhode Island Warp Stop Equipment Company, Pawtucket, R. I. Filed Dec. 31, 1923. Serial No. 683,669. 11 Claims. (Cl. 139—341.)



1. In a stopping device for a loom, the combination with the loom handle, reciprocating lay and binder carried by the lay, stop motion dagger normally at inactive position, means connecting the stop motion dagger with the loom handle and means to shift the stop motion dagger from inactive position to active position, of a shiftable bunter carried by the lay with its extremity moving at some times in path away from the dagger in any position of the latter, and means thru which the binder acts to shift the bunter into a path of travel where its extremity will encounter the dagger when the latter is in active position.

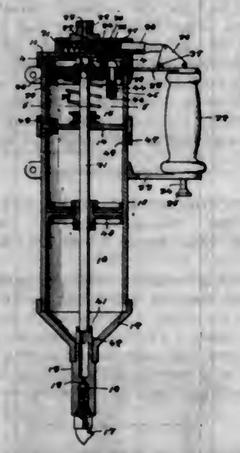
1,690,922. ROTARY SPIRAL PLOW. CONRAD M. BRACK, Great Bend, Kans. Filed Nov. 12, 1927. Serial No. 232,887. 4 Claims. (Cl. 97—222.)



1. A rotary plow comprising a rotatable cylinder provided on its periphery with spaced helically arranged plow share sections, and a combined reciprocatory and oscillatory cleaning means intermittently engaging with said sections during the rotation of the cylinder.

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1,690,923. PUMP. CHANCEY W. BUTLER and WILLARD A. SLOPER, Independence, Oreg., assignors of one-third to Chester O. Sloper, Independence, Oreg. Filed Dec. 14, 1925. Serial No. 75,402. 6 Claims. (Cl. 221—47.3.)



1. A lubricating pump of the character described comprising a cylinder divided into an air chamber and a lubricant chamber, a nipple communicating with the last named chamber, an air actuated piston including a piston rod slidable within said nipple and serving as a plunger to force the lubricant therefrom, a valve controlling admittance of air under pressure into said air chamber, a normally seated check valve in said nipple, and means actuated by said air for filling said nipple with lubricant during the return of said piston rod to its normal position.

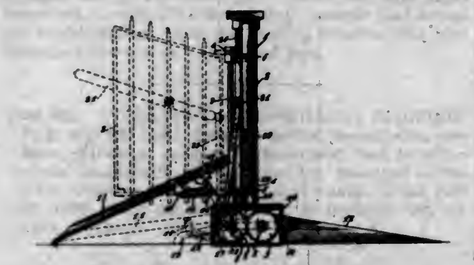
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1,690,924. GATE-OPERATING MEANS. ROBERT J. CLARK, Whitmans, W. Va. Filed May 23, 1928. Serial No. 280,060. 4 Claims. (Cl. 30—18.)

1. In combination with a pair of hinged barriers, a pair of horizontally arranged shafts, gears connecting the shafts with the hinged parts of the barriers for turning



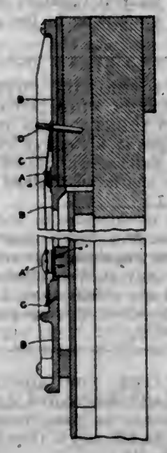
the barriers on the hinges when the shafts are turned, gears connecting the two shafts together, an arm on each shaft, a channel member arranged on each side of the road and the other on the opposite side thereof, a slotted



arm connected with each channel member, a pin in each of the first mentioned arms engaging the slot in each second arm whereby, when a vehicle passes over each channel member, the slotted arms, engaging the pin on the first arm, will cause said first arm to rock the shaft to open the gates and lower the other channel member.

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1,690,925. PIANOFORTE. ROBERT HENRY COLLEN, East Ham, England, assignor of one-half to John Broadwood & Sons Limited, London, England. Filed Nov. 29, 1926, Serial No. 151,438, and in Great Britain Jan. 4, 1926. 2 Claims. (Cl. 84—212.)

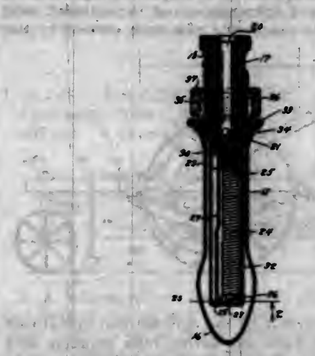


1. A bearing block comprising a base, two upstanding pieces disposed longitudinally of said base and two pins passing transversely through and projecting beyond the outer sides of said upstanding pieces, in combination with a third pin passing transversely through and projecting beyond the sides of one upstanding piece and a short pin in alignment with said third pin, passing transversely through the other upstanding piece and projecting from its outer side only.

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1,690,926. ELECTRIC THERAPEUTIC APPLIANCE. JOHN H. DEQUER, Los Angeles, Calif. Filed July 26, 1926. Serial No. 125,048. 3 Claims. (Cl. 174—89.)

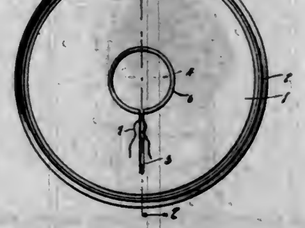
1. An internal applicator, of the character disclosed, comprising an outer casing, shaped for appropriate insertion within a desired orifice of the body, an elongated iron core extending longitudinally within said casing, an insulated heating coil encompassing said core, within said casing, and adapted to be energized by an alternating



electric current, and a springy vibrator extending longitudinally along said coil and core, which vibrator is magnetically actuated thereby.

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1,690,927. SANITARY HAIR RECEIVER. CATHERINE R. DICKERSON, Chicago, Ill. Filed Aug. 18, 1927. Serial No. 213,903. 1 Claim. (Cl. 2—50.)



A hair receiver comprising a receptacle having an elastic bottom wall and a comparatively rigid side wall, the side wall being provided at its lower edge with an inwardly directed and comparatively rigid flange to which the bottom wall is secured, the bottom wall being adapted to assume and remain in a substantially horizontal position when in place and provided with a neck receiving opening and with a slot extending from the opening to the edge of the flange, a split tube secured to the bottom wall in alinement with the wall of the opening and having its ends arranged in alinement with the walls of the slot, and a draw string arranged in the tube.

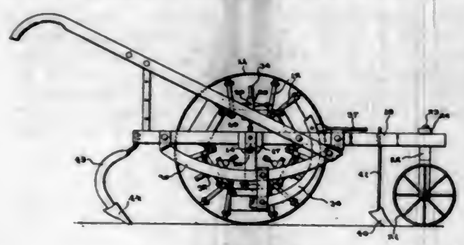
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1,690,928. COTTON CHOPPER. ELIB REAVES FILES, Baldwyn, Miss. Filed Dec. 20, 1927. Serial No. 241,324. 3 Claims. (Cl. 97—19.)

1. A cotton chopper comprising a cylinder, a frame in which the cylinder is rotatably mounted, the cylinder comprising a body element and circular runners in surrounding relation to the same and constituting supporting means for the frame, hoes mounted betwen the runners and the body element for movement transversely of the cylinder, and cooperative frame-carried and cylinder-carried elements for actuating the hoes upon rotation of the cylinder.

3. A cotton chopper comprising a cylinder, a frame in which the cylinder is rotatably mounted, the cylinder comprising a body element and circular runners in surrounding relation to the same and constituting supporting means

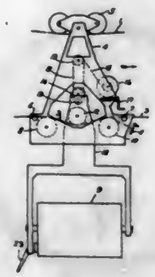
for the frame, hoes mounted between the runners and the body element for movement transversely of the cylinder, cooperative frame-carried and cylinder-carried elements for actuating the hoes upon rotation of the cylinder, said cooperative elements comprising cam rails carried by the



frame, and levers carried by the cylinder and operatively connected with the hoes and having rolls engaging said cam rails, the levers being provided with springs for moving them in the opposite direction from that in which they are moved by the cam rails.

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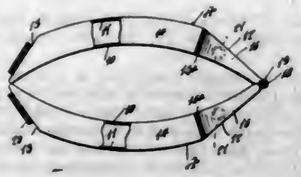
1,690,929. CABLEWAY. CHARLES FISHER, Kumardhubi, British India. Filed Aug. 11, 1926. Serial No. 128,681. 8 Claims. (Cl. 212—71.)



1. A cableway system having in combination, a continuous rail, a transmission rope traveling contiguous to said rail, a load carrying means, a carriage adapted to travel upon said rail for supporting said load carrying means, means for transferring said load carrying means with its load from said rail to said rope and means for giving slack to the rope for permitting the bucket to descend from said carriage.

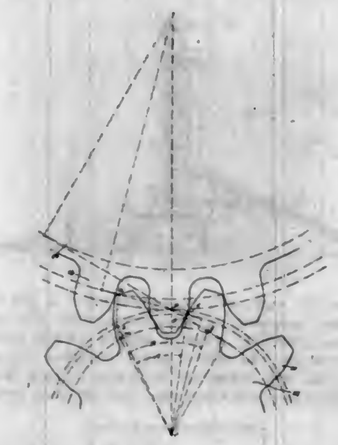
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1,690,930. TRIPURPOSE BOTTLE. GROVES C. FOARDS, Atlanta, Ga. Filed Apr. 26, 1928. Serial No. 273,040. 6 Claims. (Cl. 128—258.)



1. A hygienic water bottle, comprising a plurality of sections, said sections being tapered at one end and formed arcuate in shape for engagement with the body, and means detachably and hingedly connecting said sections, said sections when separated being adapted for individual use.

1,690,931. GEAR TEETH. SIGARD A. S. HAMMAR, Bethlehem, Pa., assignor to Hammar Co. Inc., Brooklyn, N. Y., a Corporation of Delaware. Filed Oct. 1, 1927. Serial No. 223,881. 7 Claims. (Cl. 74—41.)



1. Gear teeth having contours consisting of two or more involute arcs conforming to different pressure angles, the involute arcs being connected by means of sections of tooth contour which do not necessarily impart rotation, the position of the involute arc being such that the root thickness is smaller than the root thickness of a tooth formed by one involute arc conforming to the greatest pressure angle.

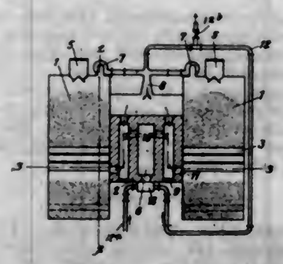
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1,690,932. MANUFACTURE OF PHYSIOLOGICALLY-ACTIVE SUBSTANCES FROM OVARIES, CORPUS LUTEUM, AND PLACENTA. MAX HARTMANN, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Apr. 14, 1924. Serial No. 706,593, and in Switzerland May 8, 1923. 1 Claim. (Cl. 167—7.)

A process for the manufacture in highly concentrated form of the hormones from female internal secretory organs which comprises dissolving the animal tissue in a volatile organic fat solvent, precipitating the phosphatides, separating out the phosphatides, and then subjecting the filtrate to the action of temperatures ranging between −50° to −70° C.

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1,690,933. APPARATUS FOR DISTILLING SOLID COMBUSTIBLE CARBONACEOUS MATERIAL. OTTO HUBMANN, Frankfort-on-the-Main, Germany. Filed Oct. 8, 1925, Serial No. 61,342, and in Germany Nov. 4, 1924. 2 Claims. (Cl. 202—14.)

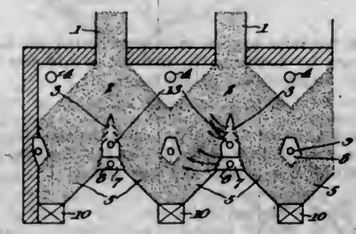


1. An apparatus for distilling solid combustible carbonaceous material which comprises a shaft-like heating chamber for containing said solid material, a conduit extending into said chamber provided with means for introducing hot gases into said material, a furnace, a wall common to said heating chamber and said furnace having an interspace formed therein and ports leading from the furnace to the interspace and from the interspace into said passage, and an additional port opening into said interspace and connected to the heating chamber, and means for introducing gas from the heating chamber into said interspace through said additional port.



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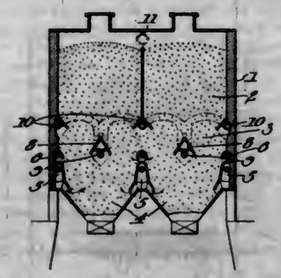
1,690,934. APPARATUS FOR DISTILLING COMBUSTIBLE MATERIALS. OTTO HUBMANN, Frankfort-on-the-Main, Germany, assignor to Metallbank und Metallurgische Gesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 12, 1926, Serial No. 121,967, and in Germany Oct. 23, 1924. 3 Claims. (Cl. 202—14.)



1. Apparatus for distilling solid carbonaceous material comprising a shaft-like still having an uninterrupted upper portion, means for introducing the material at the top and withdrawing it from the bottom of the shaft, means for introducing hot distilling gas including inlet means located within the shaft below said upper portion and spaced from the wall of said shaft, means for introducing cooling gas including inlet means located within the shaft below the first named inlet means and likewise spaced from the wall of the shaft, gas outlet means located near the top of the shaft, and additional gas outlet means located near the side walls at substantially the level of the inlet means for cooling gas, substantially as shown and described.

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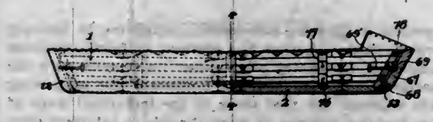
1,690,935. PROCESS AND APPARATUS FOR DISTILLATION OF COMBUSTIBLE MATERIALS. OTTO HUBMANN, Frankfort-on-the-Main, Germany, assignor to Metallbank & Metallurgische Gesellshaft Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Dec. 7, 1926, Serial No. 153,180, and in Germany Dec. 18, 1925. 5 Claims. (Cl. 202—14.)



1. Process for the continuous distillation of high-ash solid carbonaceous material containing a volatile portion and a combustible solid portion by contact with hot gases which consists in passing a charge of such material downwardly and in continuous flow successively through a distillation zone, a reaction zone, and a residue-cooling zone, introducing oxygen-free gases into a cooling zone and thereby heating them, introducing oxygen containing gases into the reaction zone whereby combustion or reaction occurs with the distilled material which still contains combustible material, sucking out and mixing the hot gases from both zones, and passing them into the distillation zone, where distillation of the charge is effected.

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1,690,936. COLLAPSIBLE BOAT. EERO V. LANGEN, Fitchburg, Mass. Filed Feb. 27, 1928. Serial No. 257,414. 4 Claims. (Cl. 9—2.)



1. A collapsible boat comprising a framing formed of a keel member formed of a series of hinged sections, a series of rib members seated in the keel member and formed of a series of hinged sections, a series of side members seating in the keel and rib members and formed of a series of hinged sections, means for detachably connecting said sections together, a flexible body portion formed of impervious material, and means for detachably securing said body portion against the sides, ends and at the ends of the top of said frame.

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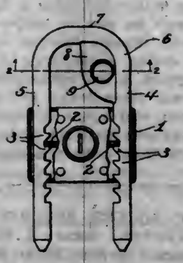
1,690,937. HAIR-WAVING DEVICE. ALBERT JULIUS LARM, Hagerstown, Md. Filed May 3, 1928. Serial No. 274,865. 2 Claims. (Cl. 132—40.)



1. In hair waving apparatus, a foraminous tube having a longitudinally straight side and a clamp removably straddling said side having substantially straight jaws pivoted together and means for urging the jaws toward the inner and outer faces of said side.

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1,690,938. PADLOCK. MAXWELL C. MAXWELL, Stamford, Conn., assignor to The Yale and Towne Manufacturing Company, Stamford, Conn. Filed Oct. 20, 1925. Serial No. 63,627. 6 Claims. (Cl. 70—108.)



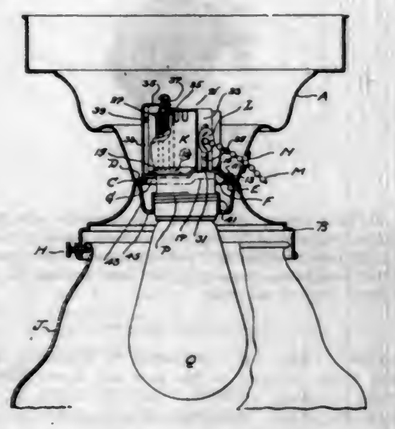
1. A shackle for a lock provided in a corner portion formed by a leg and a cross member with an inwardly projecting member lying within the lines of the shackle and permanently united with the leg and cross member.

1,690,939. PILE FABRIC. FERDINAND W. MOSTERTZ, Philadelphia, Pa. Filed Dec. 10, 1924. Serial No. 755,051. 1 Claim. (Cl. 139—397.)



A method of forming pile fabrics, consisting in weaving interconnectingly together two sections of fabric, weaving a plurality of temporary pile supporting threads with the two sections and positioning the temporary pile supporting threads adjacent the rear faces of the individual webs of fabrics, weaving a series of warp threads to interlace filler threads in each web, then loop over the pile supporting threads at the rear of the opposite web, then return to the filler threads of the first web with which they interlace for a predetermined distance, and again looping said warp threads over said pile supporting threads, forming a series of loops in each of said fabric sections, paralleling and aligning the series of loops, laterally positioning the loops, and finally withdrawing said pile supporting threads to permit separating of said sections of fabric.

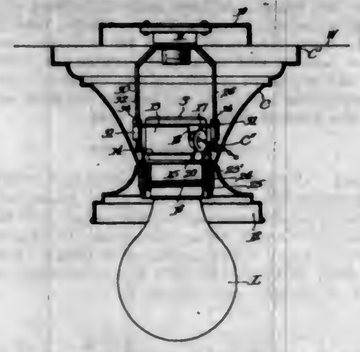
1,690,940. LAMP-SOCKET-SECURING MEANS FOR ELECTRIC FIXTURES. HENRY E. NICKERSON, Bridgeport, Conn., assignor, by mesne assignments, to Weber Electric Company, Schenectady, N. Y., a Corporation of New York. Filed July 26, 1926. Serial No. 124,960. 7 Claims. (Cl. 240—78.)



1. In a lighting fixture including a flange-like support, the combination with an electric lamp-socket including a casing having screw threads thereon, of a member separate from said casing constituting a holder therefor seated on said support, a nut independent of said socket engageable with said threads and provided with a part abutting the support, and means coacting with said member arranged to take over a portion of the socket to retain the interior thereof from being displaced.

1,690,941. LAMP-SOCKET-SECURING MEANS FOR ELECTRIC FIXTURES. HENRY E. NICKERSON, Bridgeport, Conn., assignor to The Weber Electric Company, Schenectady, N. Y. Filed Oct. 10, 1927. Serial No. 225,380. 9 Claims. (Cl. 240—85.)

1. An electric fixture comprising a bracket adapted to be secured to an outlet stud and having an arm adapted to extend away from said stud, an annulus adapted to receive therein and seat an electric lamp socket having a shell, means on said annulus adapted to engage the socket and



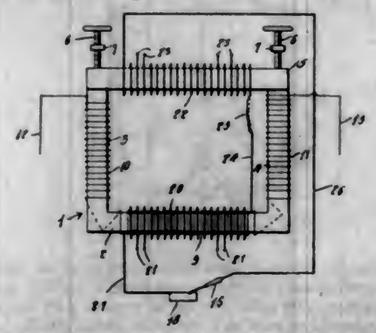
restrain the same against movement out of the annulus, and means for mounting the annulus on said arm for adjustment longitudinally of the same.

1,690,942. OBSTETRICAL INSTRUMENT. EDWIN ODELL, Central City, Nebr. Filed Feb. 3, 1928. Serial No. 251,676. 9 Claims. (Cl. 128—361.)



1. In an obstetrical instrument, a pair of separable handle members arranged in opposed relation and having oppositely curved arms at one end, a flexible loop adjustable between the arms and slidably connected therewith, and means associated with the handle members for maintaining tension on the loop.

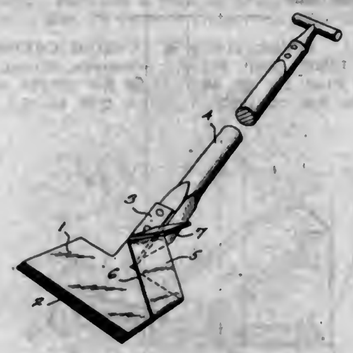
1,690,943. VARIABLE-VOLTAGE TRANSFORMER FOR ELECTRIC-ARC CUTTING AND WELDING APPARATUS. FREDERICK C. OWEN, Fayetteville, N. C. Filed Sept. 22, 1927. Serial No. 221,291. 6 Claims. (Cl. 171—119.)



1. A transformer comprising a core embodying relatively adjustable portions, a primary winding arranged on one of said portions, and a secondary winding arranged on both of said portions.

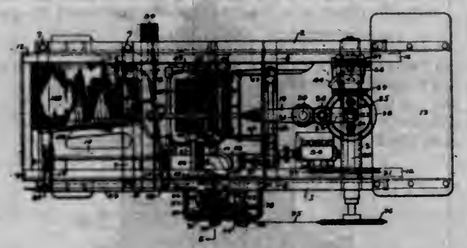


1,690,944. LAWN-TRIMMING TOOL. GEORGE H. PETERSON, Orange, Calif. Filed May 16, 1927. Serial No. 191,822. 1 Claim. (Cl. 97—227.)



A tool of the class described comprising a flat main blade having a front cutting edge and an upwardly and outwardly extending strap at its rear edge, a handle connected with said strap, a side blade of less width than the main blade connected with the rear part of one side edge of the main blade and extending upwardly at an acute angle therefrom, said side blade having a front cutting edge and a rightangular extension formed on the upper end of the side blade forming a guiding member.

1,690,945. BOOK-BACK-GLUING MACHINE. JOHN J. PLEGER, Chicago, Ill. Filed Apr. 5, 1927. Serial No. 181,053. 24 Claims. (Cl. 91—51.)

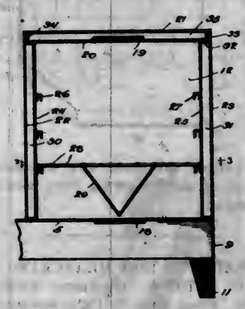


1. In a book back gluing machine, the combination with a reciprocatory carriage for the books, of a rotary adhesive applicator element positioned adjacent the path of said carriage, mechanism for rotating the applicator, means movable with the carriage for actuating said rotating mechanism, and means for rendering said actuating means effective in one directional movement of the carriage only.

8. In a book back gluing machine, the combination with a movable carriage for the books, of a rotary adhesive applicator mounted adjacent the path of said carriage and adapted to engage the books in the latter as the carriage advances, mechanism for normally rotating the applicator, and automatic means for increasing the speed of rotation of the applicator while in contact with the said books.

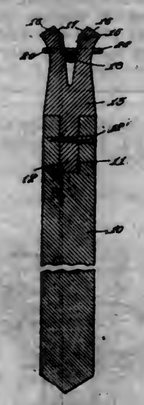
1,690,946. ELECTRIC RANGE. CHARLES R. PORTER, Rome, Ga. Filed Feb. 10, 1927. Serial No. 167,174. 1 Claim. (Cl. 126—275.)

An oven structure for electric stoves comprising a base plate, a rear wall, a front door, outer side walls erected on the base plate and being in the same vertical plane from top to bottom, inner side walls set upon the base inwardly from the outer side walls and having out-turned shoulders at their upper ends spaced below the upper ends of the outer side walls, said shoulders extending over to the outer side walls, said inner side walls also having up-turned flanges at the outer edges of the shoulders extending in contact with the uppermost portions of the outer side walls, said shoulders terminating at their upper ends flush with the upper edges of the outer side walls, a lower top plate seated upon said shoulders and having up-turned flanges



extending within and in contact with the first mentioned flanges and having the upper ends thereof terminating flush with the upper ends of the first mentioned flanges and outer side walls, an upper top plate spaced above the lower top plate and seated upon the upper edges of the flanges and outer side walls and secured thereto, said outer side walls having at their forward edges inwardly bent front panels spanning the space between the inner and outer side walls, said panels having inturned flanges embracing the inner faces of the inner side walls.

1,690,947. WASH-LINE-SUPPORTING POLE. JOHN RAUHOFER, Bethlehem, Pa. Filed Dec. 10, 1926. Serial No. 153,913. 2 Claims. (Cl. 68—12.)

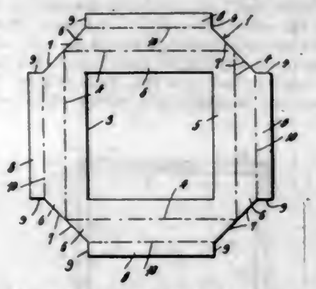


2. A device of the class described, comprising a pole, one end of the pole having a longitudinal slot, a slotted ring loosely surrounding the slotted portion of the pole, and means for retaining the ring on the pole.

1,690,948. HOT-AIR REGISTER. MORGAN M. ROTH, Sunbury, Pa., assignor to Charles J. Reitz, Sunbury, Pa. Filed Apr. 5, 1928. Serial No. 267,610. 1 Claim. (Cl. 98—114.)

A casing for hot air registers for furnaces and the like, formed from a blank of sheet metal having a square open-

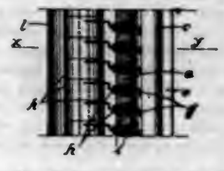
ing therein, certain edges of said blank formed by cutting on lines forming right angles with continuations of diag-



onals of the opening aforesaid and extensions on said blank at the ends of said edges on lines parallel with the sides of said opening.

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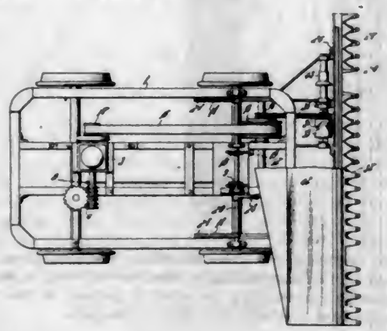
1,690,949. APPARATUS FOR MEASURING THE RATE OF FLOW OF FLUIDS. GIUSEPPE SACCO ALBANESE, Paris, France. Filed June 7, 1924, Serial No. 718,580, and in France June 9, 1923. 2 Claims. (Cl. 201—57.)



1. A tubular rheostat comprising a block having a groove therein adapted to receive a body of mercury and provided with holes leading through the block at spaced points along the inner wall of the groove, a plate secured against the block for closing said groove, contact studs carried by the block in said holes and projecting at one end into the groove for contact with the mercury, packings carried by the block in said holes about said studs for sealing the same in the block, and resistance coils connected to said contact studs.

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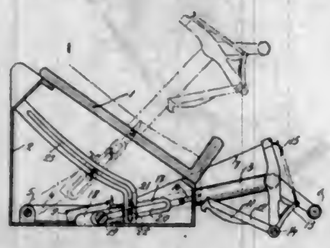
1,690,950. MOWER. MARIANO SALAS, Canlubang, Laguna, P. I. Filed July 30, 1924. Serial No. 729,157. 2 Claims. (Cl. 56—232.)



1. A mowing apparatus, comprising a truck having its wheels arranged to engage the rails of a track, a frame pivoted at the front of the truck and extending downwardly, a supporting bar at the front of the frame, formed in sections, with one section between the rails and the others at the outer sides of the rails, cutting means carried by each section of the bar, rollers on the frame for engaging the rails, a motor on the truck, means for propelling the truck from the motor, means for actuating the cutting means from the motor and manually operated means for tilting the frame.

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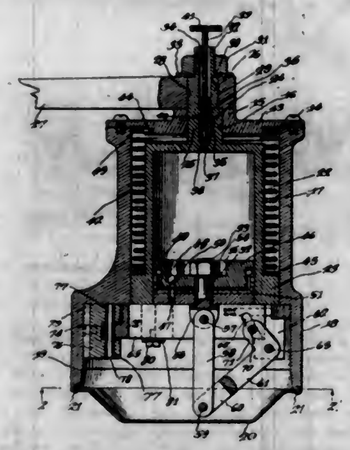
1,690,951. APPARATUS FOR CUTTING CHEESE OR THE LIKE. EMIL FREDRIK SCHEDWIN, Kiruna, Sweden. Filed Apr. 26, 1927, Serial No. 186,779, and in Sweden Feb. 11, 1927. 7 Claims. (Cl. 31—5.)



1. In a cutting apparatus for cheese and the like, a member mounted to swing up and down, a cutting wire carried by the member, a cutter movably mounted on the member below the wire with its edges coinciding with the said wire, and means for operating the cutter on the downward movement of the member to cut through the underside of the cheese, whereby the cutting wire is relieved of strain.

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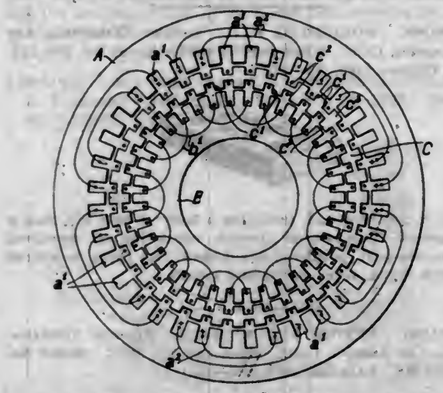
1,690,952. DOORCHECK. JOHN C. SCHMIDT, Chicago, and WILLIAM EICHHOLZ, Cicero, Ill. Filed May 18, 1927. Serial No. 192,406. 4 Claims. (Cl. 16—70.)



1. A door check including a housing having a bore formed therein and comprising a base provided with a hollow interior, said bore excentrically opening into the interior of said base, a cylinder rotatably arranged in the bore, a spring member embracing the cylinder and having one end portion connected thereto and an opposite end portion connected to the housing, means for imparting opening movement of a door to said cylinder, a piston movable in the cylinder, a brake shoe rotatably arranged in the interior of said base and having wiping engagement with respect to the interior wall of the base, a push bar having connection with said brake shoe, and means operable by movement of said cylinder for moving the piston in one direction in the cylinder for urging said push bar to actuate said brake shoe for braking engagement with respect to said base.



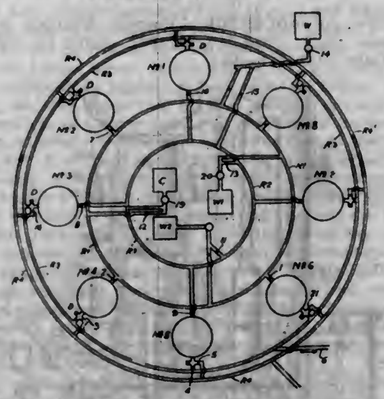
1,690,953. ALTERNATING-CURRENT INDUCTION MOTOR. LUDWIG SCHÖN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 2, 1926, Serial No. 139,164, and in Germany Mar. 13, 1924. 1 Claim. (Cl. 172—280.)



An alternating current induction motor comprising a stator, a rotor and an auxiliary rotor arranged between the stator and rotor and consisting of a drum having an iron shell provided on its inner and outer side with slots, a stator winding and a rotor winding one of said windings being connected to a source of alternating current, a short circuit armature winding carried by the auxiliary rotor, and an exciting winding arranged in the inner and outer slots of said iron shell in such a manner that in the central portion of said shell corresponding points which are distant from each other by the distance of adjacent poles have the same magnetic potential, the magnetic flux generated by said exciting winding passing through the stator, the auxiliary rotor and the rotor in a path traversing the auxiliary rotor in radial direction.

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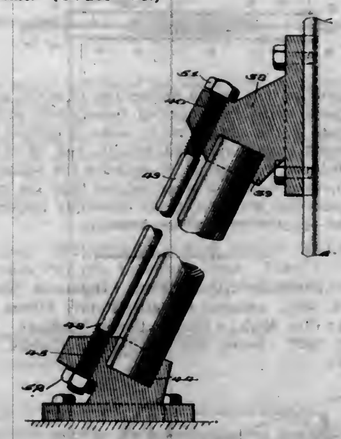
1,690,954. PROCESS FOR THE EXTRACTION OF CELLULOSE OR PAPER PULP FROM FIBROUS VEGETABLE MATTER CONTAINING THE SAME. EDMONDSON SPENCER, Calcutta, British India. Filed Feb. 10, 1928, Serial No. 253,309, and in British India Jan. 20, 1927. 2 Claims. (Cl. 92—7.)



1. A process for the extraction of cellulose from materials containing the same, comprising, providing a plurality of digesters, charging the digesters with cellulose material to be extracted, introducing digesting liquor into one of the digesters and thereby dissolving at least a part of the soluble matter in the material, removing the resulting liquor and subsequently introducing liquor of greater concentration and of higher temperature and under greater steam pressure into that digester, and continuing such processes utilizing liquors of greater concentration, heat and pressure at each stage, effecting the removal of the digesting liquor from one such digester and its introduction into the next digester in sequence by blowing down the liquor by means of the steam, and utilizing the partially spent liquor from each stage in similar extractions of the less extracted materials in another digester, whereby the most extractive liquor is applied to the material most completely extracted.

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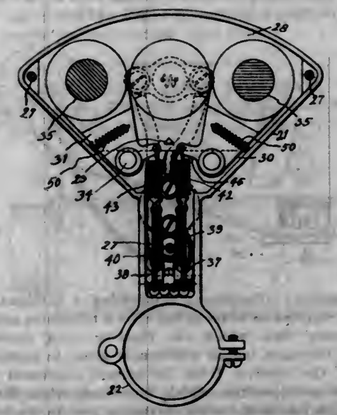
1,690,955. PUMPING RIG. GILBERT STOUFFLET, Corsicana, Tex. Filed Oct. 19, 1925. Serial No. 63,465. 4 Claims. (Cl. 189—16.)



1. In a rig of the character described, a post, means for supporting the lower end of the post, bracing means for the post including a bracket fixed to the post, a bracket fixed to the foundation of the rig, said brackets having inclined lugs formed with aligned sockets and openings, the end walls of the sockets being opposed, a rigid bar having its end portions fitted in the sockets, against the end walls of the socket, and a tensioning rod extending through the openings in the lugs and connected with the lugs.

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1,690,956. GEAR-SHIFT INDICATOR. TOKUSABURO TOKUHISA, Hollywood, Calif. Filed Sept. 28, 1927. Serial No. 222,538. 7 Claims. (Cl. 116—124.)

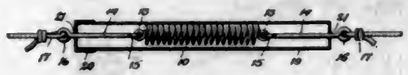


1. In a signal device, the combination with a housing, and a cover for the housing having a transparent aperture therein, of shafts disposed within the housing, oscillatable

signal arms operatively mounted on the shafts and adapted to register with the aperture, and normally in an inoperative position relative to the aperture, a stop element to limit the movement of the signal arms when acuated to operative position, springs arranged to retract the signal arms to inoperative position, and means for actuating the signal arms to operative position.

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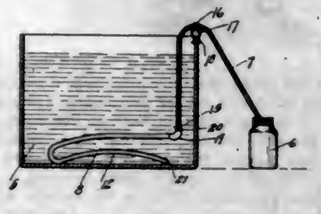
1,690,957. TENSIONING DEVICE FOR CLOTHESLINES. VINCENT P. TOMMINS, Jersey City, N. J. Filed May 31, 1927. Serial No. 195,450. 3 Claims. (Cl. 267—74.)



1. The combination with a clothesline, of a coil spring, whose opposite ends are connected respectively with the opposite ends of the clothesline to make it endless to be passed around spaced anchored pulleys, and to take up slack, a sectional housing which encloses the spring, the spring in normal condition being shorter than the casing, portions connected with the spring extending respectively through the opposite ends of the housing.

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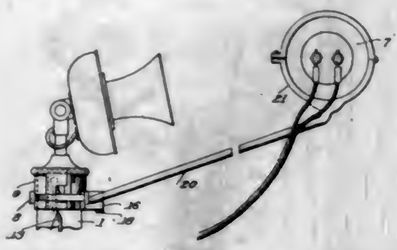
1,690,958. HOUSEHOLD FILTER. HENRY A. VALLEE, Bay City, Mich., assignor to Vallee Rotary Filters Company, Bay City, Mich., a Corporation of Michigan. Filed Jan. 17, 1927. Serial No. 161,545. 5 Claims. (Cl. 210—94.)



1. A filter comprising a perforated folded rigid screen, the lower fold being bowed and spaced from the upper fold.

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1,690,959. TELEPHONE EQUIPMENT. NORMAN C. WEBSTER, Greensboro Bend, Vt. Filed Oct. 10, 1924. Serial No. 742,905. 1 Claim. (Cl. 179—147.)



A telephone attachment comprising a sectional casing member adapted to be mounted upon a telephone and having an opening thru which the receiver hook extends, the opening having a length sufficiently great to permit movement of the receiver from its normal depressed position to its elevated position which it assumes when the instrument is in use, said casing having a slot in its bottom, a latch pivoted at its upper end within the casing and having its lower end extending thru the slot and constituting a finger piece, said latch having a square shoulder thereon normally engaging over the hook and further having an inclined surface above said shoulder leading thereto, and a spring within the casing engaging the latch and normally urging it into receiver hook engaging position.

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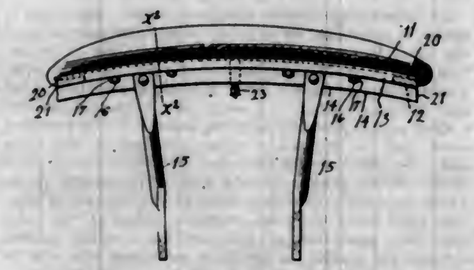
1,690,960. POLISHING PAD. SABURO YAMANAKA, Los Angeles, Calif. Filed July 7, 1927. Serial No. 204,125. 3 Claims. (Cl. 51—279.)



2. A polishing pad, including a body of hair felt, and a compound incorporated therein, consisting of powdered horn, one part, powdered squid shell, two parts, powdered pumice stone, seven parts, and gelatin.

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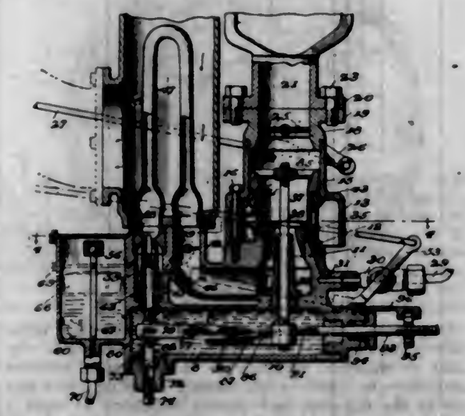
1,690,961. AUTOMOBILE BUMPER. GENGIRO YOSHINAGA, Los Angeles, Calif. Filed Jan. 13, 1927. Serial No. 160,888. 3 Claims. (Cl. 293—55.)



1. In an automobile bumper, outer and inner clamp members, supporting brackets extending from the inner clamp member, means for drawing the clamp members together, a flexible fabric tube mounted on the outer face of the outer clamp member and having its extremities inserted between the clamp members, and an inflatable tube mounted within the flexible fabric tube.

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1,690,962. CARBURETOR. HERBERT WILLIAM ALLEN, Fresno, Calif. Filed Jan. 25, 1922. Serial No. 531,799. 1 Claim. (Cl. 261—15.)

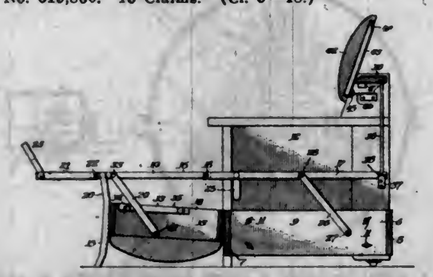


A carbureter comprising a liquid fuel spray nozzle, a heating tube having an expanded end in communication with the spray nozzle, a choke tube having one end in communication with the remaining end of the heating tube and its other end in communication with the outlet of the carburetor, said heating tube having the opposite end thereof expanded for a portion of its length, said heating tube being U-shaped and of restricted diameter throughout the greater portion of its length and between the expanded ends thereof.



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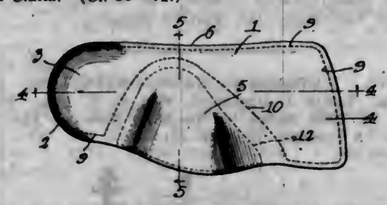
1,690,963. SOFA BED. ALFRED E. ANDERSON and CHARLES A. FORSBERG, Rockford, Ill. Filed Feb. 17, 1923. Serial No. 619,866. 15 Claims. (Cl. 5—48.)



1. In a sofa bed, the combination with a main frame, of an invertible seat hinged therein, legs secured to the seat and having portions projecting above it when it is inverted, and a bed bottom foldable in the frame and comprising sections one of which is supported by and engaged between but not attached to the projecting portions of said legs.

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1,690,964. ARCH SUPPORT. THOMAS K. BALASKAS, Lexington, Nebr. Filed Oct. 27, 1927. Serial No. 229,075. 1 Claim. (Cl. 36—71.)

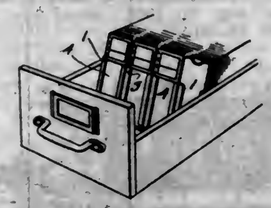


An arch support including a top piece of sole leather, a bottom piece coextensive therewith of soft leather, a cushioning layer interposed between and coextensive with the top and bottom pieces, said top piece having its heel portion hollowed to provide a heel receiving recess, there being an arch supporting portion between the heel and toe portions of the top piece, said arch supporting portion being extended from one side to a point close to the opposite side of the top piece, there being a row of stitches extending through the top, bottom, and intermediate pieces along one side thereof, along the ends, and along the inner portions of the arch supporting portion, the intermediate piece being connected to the bottom surface of the arch supporting portion, there being a pocket beneath the arch supporting portion of the top piece between the intermediate piece and the bottom piece, and an arch consisting of superposed layers of leather skived to proper shape removably seated in the pocket beneath the intermediate cushioning strip, the entire arch support being free of metal.

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1,690,965. SLIDE HOLDER. JAMES HOWARD BROWN, Baltimore, Md. Filed July 16, 1926. Serial No. 122,956. 1 Claim. (Cl. 129—16.7.)

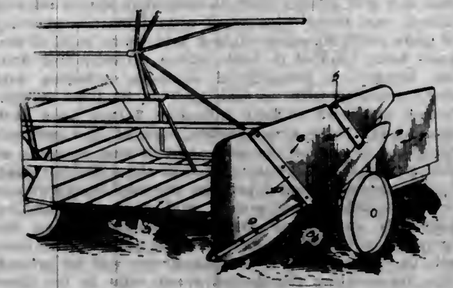
A slide holder of the character described comprising a sheet metal plate having spaced pairs of outstruck guideways thereon arranged in parallel relation, each pair of guideways being adapted to have a flat article slidably engaged therein, one edge of the plate at the ends of all the guideways being formed with an outstanding continuous stop flange adapted for engagement by the flat articles for limiting the movement thereof, the opposite edge portion of the plate being slit at intervals to form tab-like extensions opposite the spaces between the pairs of guideways, the extensions being bent somewhat out of the plane



of the major portion of the sheet and engageable with the rear sides of the flat articles for urging them against the overhanging portions of the guideways and thereby preventing looseness, the ends of said extensions being notched out for the accommodation of the operator's fingers whereby they may conveniently grasp the end of the flat article within each pair of guideways.

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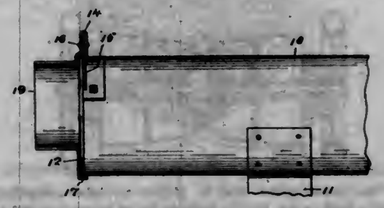
1,690,966. WINDSHIELD FOR GRAIN HARVESTERS. GEORGE CHANEY, Doniphan, Nebr. Filed July 18, 1925. Serial No. 44,578. 4 Claims. (Cl. 56—190.)



1. In a grain harvester and binder having a cutter bar, an elevator and a dividing board, the combination of a windshield composed of a plurality of members, one of which is adapted to be mounted on and to extend in advance of the dividing board and at right angles to the cutter bar in a substantially vertical plane, and another member extending in rear of said dividing board and having means for connection therewith.

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1,690,967. AUTOMATIC DOOR FOR MAIL BOXES. WINFRED L. COBB, Jefferson, Oreg. Filed May 13, 1927. Serial No. 191,159. 5 Claims. (Cl. 232—17.)

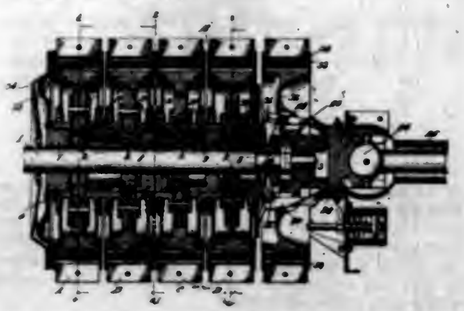


1. In combination with a receptacle having an opening at one end, a disk-like closure for said receptacle, a flange at one marginal edge of the closure, means to hingedly support the disk-like closure for swinging movement across the opening to open and close the receptacle

and to permit the flange to be brought into position to provide a guide at the receptacle opening and a stop to locate the flange in guiding position when the receptacle is open.

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1,690,968. TRANSMISSION. JOSEPH J. COLE, Faber, Va. Filed Aug. 31, 1926. Serial No. 132,754. 1 Claim. (Cl. 74—34.)



A transmission for conveying selectively with predetermined speed ratio, movement from a driving shaft to a driven shaft comprising driving pinions fixedly arranged upon the driving shaft in spaced longitudinal relation for rotation therewith, a sleeve encircling said driving members and said driving shaft in concentric spaced relation thereto, said sleeve being keyed to said shaft, a plurality of gears rotatably mounted upon said sleeve, each of said gears being adapted to mesh with a corresponding driving member, a plurality of members encircling said sleeve provided with an orbit gear on its inner circumference and with radially extending flanges upon each edge of the outer circumference, each of said members encircling a pair of the gears and driving members so that said gear will be in mesh with the said orbit gear, friction means arranged between the said flanges on the outer circumference of each of said members, means for selectively contracting said friction means upon the outer circumference of said member whereby the same will be held stationary and the sleeve, will be rotated, thus transmitting the desired speed ratio to the drive shaft.

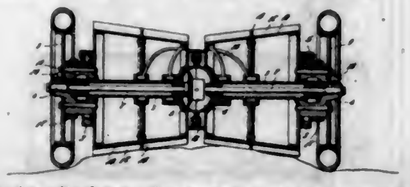
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1,690,969. TREATMENT OF HIDES AND SKINS. HARRY DODGE, Danvers, Mass. Filed Nov. 28, 1927. Serial No. 236,381. 1 Claim. (Cl. 149—5.)

In the treating of dried hides and skins the subjecting them for a suitable period to a bath consisting of water, nitre, bicarbonate of soda and formaldehyde.

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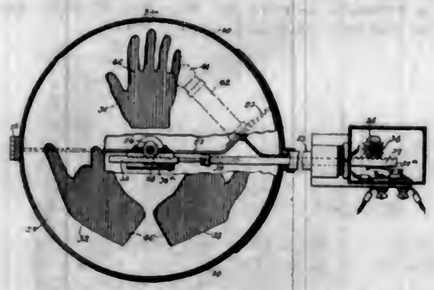
1,690,970. TRACTION DEVICE FOR VEHICLES. EMIL W. EHLERT, Thorp, Wis. Filed June 1, 1927. Serial No. 195,736. 3 Claims. (Cl. 180—6.)



1. An attachment for a motor vehicle comprising a frame adapted to be connected to the rear part of the chassis of a motor vehicle, hubs rotatably mounted in the side members of the frame, hollow axles having their inner ends forming a differential housing with their outer ends rotatably supporting the hubs, a shaft in each housing, differential means connecting the inner ends of the shafts together, means for fastening the outer end of each shaft to a hub, a wheel connected with each hub, a drum rotatably mounted on each hollow axle and connected with a hub and means for connecting the differential means with the power plant of the vehicle.

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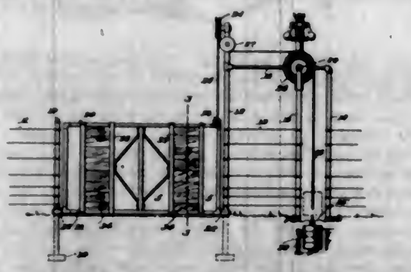
1,690,971. TRAFFIC SIGNAL. JUDSON B. FREIDAH, New York, N. Y. Filed Oct. 24, 1925. Serial No. 64,688. 1 Claim. (Cl. 116—47.)



A signal including a casing having windows at opposite sides thereof, a strap supported within the casing with its longitudinal edges equi-distantly spaced from such sides, signal disks rotatable in the casing upon opposite sides of the strap, a rotatable toothed element supported by the strap and having its ends fixed to the disks, the strap serving to retain the disks in spaced parallel relation, a channel-shaped member supported from the under face of the strap and extending longitudinally thereof, a rack bar slidable in the channel-shaped member and engaging the rotatable element to rotate the disks, and a spring interposed between the rack bar and bottom wall of the channel-shaped member and resiliently holding the rack bar against the rotatable element.

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1,690,972. AUTOMATIC GATE-CONTROLLING DEVICE. LOUIE J. GEORGINO, Wishek, N. Dak. Filed Jan. 31, 1927. Serial No. 164,967. Renewed Apr. 17, 1928. 3 Claims. (Cl. 39—5.)



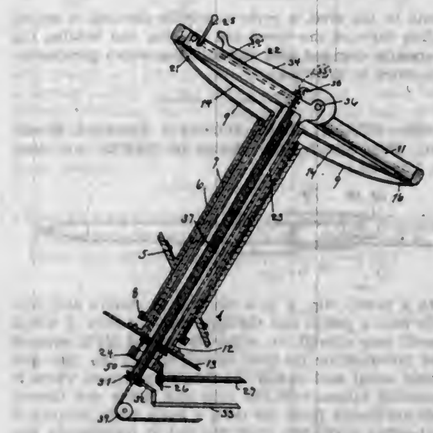
1. The combination with a gate mounted for movement about a horizontal axis, to open and closed position, of flexible means connected with the gate at its upper portion, a device for placing tension on the flexible means, a governor controlled brake, a drum over which the flexible means passes, and means for operating the governor by the movement of the drum in one direction.

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1,690,973. VEHICLE-CONTROLLING MEANS. DOC E. GORDON and GILBERT S. FRAZER, Oakland, Calif. Filed Mar. 5, 1927. Serial No. 173,172. 1 Claim. (Cl. 74—39.)

In a transmission control means, the combination with a steering column having a steering wheel mounted thereon, a tubular support positioned within said steering column, said support having a ring mounted thereon, said ring being concentric with said steering wheel, a selector column concentrically positioned within said support and having a gear secured to its lower extremity, said gear being capable of transmitting rotary motion to a gear shift mechanism at a remote point, a selector bar supported in said steering column and adapted to move over said ring, said ring having notches formed therein for the purpose of designating fixed points for the movement of said selector bar, a gear engaging member

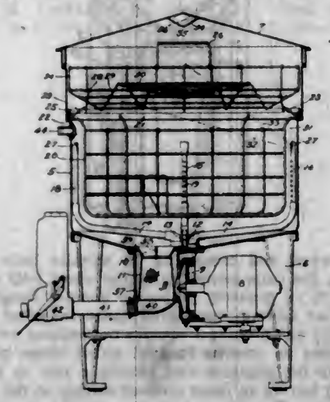




pivotally supported in said selector bar and adapted to be rotated, a disc mounted in said selector bar, a cam surface formed in said disc, a tubular column concentrically positioned within said steering column, and adapted to be reciprocated through the action of said cam engaging a pin secured in said last mentioned column and means secured to the lower extremity of said last mentioned column for transmitting reciprocating motion to a remote point.

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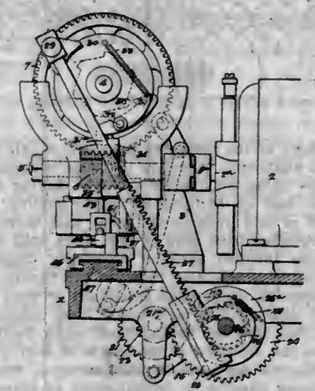
1,690,974. WASHING MACHINE. GEORGE EDGAR HAZARD and HARRY F. BOE, Rochester, N. Y. Filed Feb. 2, 1922. Serial No. 533,678. 4 Claims. (Cl. 141—9.)



1. A washing-machine comprising: a casing open at the top; a revoluble spray-device consisting of a body rotatably mounted at the bottom of the casing, and spray-pipes radiating from said body and extending first outwardly, near the bottom of the casing, and then upwardly near its walls, the spray-pipes being provided with inwardly-directed openings in their upright portions and with upwardly directed openings at their upper ends; a lower basket-like work-support suspended from the casing above the upper ends of the spray-pipes but depending into the space about which they revolve; and a second basket-like work-support removably supported above the lower work-support, in position to receive the spray from the upper ends of the spray-pipes.

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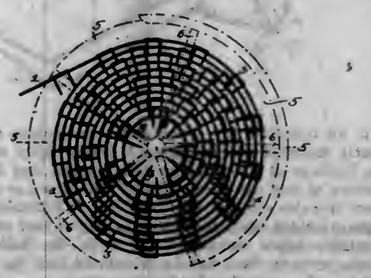
1,690,975. STOPPING AND STARTING MECHANISM FOR TICKETING MACHINES. GEORGE W. HENRY, Jr., Philadelphia, Pa., assignor to Soabar Company, Philadelphia, Pa., a Corporation of Pennsylvania. Original application filed Dec. 15, 1923, Serial No. 680,885. Divided and this application filed Jan. 26, 1926. Serial No. 83,865. 3 Claims. (Cl. 192—139.)



1. The combination of a driving shaft; a worm thereon; a cam shaft; a worm wheel loose thereon; a ratchet wheel on the worm wheel; a disk on the cam shaft; a pawl pivotally mounted on the disk; a longitudinal shaft; a pinion loose on the shaft; a pawl connecting the pinion with the shaft; a bearing on the shaft; and a rack bar, pivoted to the disk on the cam shaft, arranged to slide in the bearing, said bar having teeth meshing with the teeth of the gear wheel loose on the longitudinal shaft.

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1,690,976. ROLL PIN TICKET. GEORGE W. HENRY, Jr., Philadelphia, Pa., assignor to Soabar Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 5, 1926. Serial No. 106,941. 1 Claim. (Cl. 40—25.)

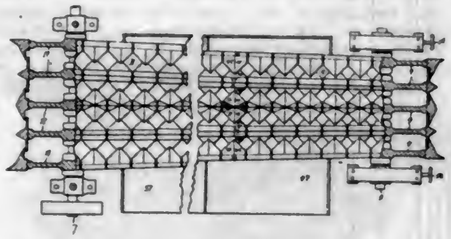


A coiled tag strip composed of a series of connected tag sections, each tag section having a pin secured thereto and projecting perpendicularly from one face thereof immediately adjacent one longitudinal edge of the strip, said coiled strip being helically wound about a given axis with the said longitudinal edge in each convolution of the helix being axially displaced with respect to the next adjacent convolution, and the said pins in each convolution extending under the longitudinal edge of the said adjacent

convolution, whereby the radial spacing of the adjacent convolutions of said helix is less than the distance from the face of the strip to the points of the pins which extend perpendicular thereto.

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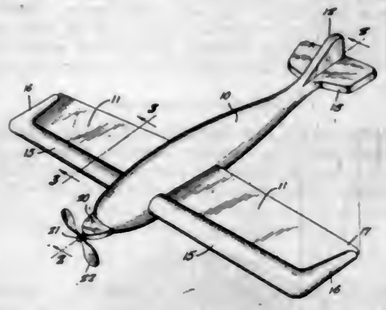
1,690,977. GRADER. FRANK R. HOOD, Stockton, Calif. Filed May 25, 1927. Serial No. 194,163. 1 Claim. (Cl. 209—84.)



In a grader of the character described, a pair of diverging chains adapted to travel in the same horizontal plane, said chains being constructed of links having a vertical outer wall and an inclined surface extending from the outer wall of said links to the inner wall thereof, a projection extending from each of said links, said extensions each having inclined surfaces diagonally disposed with relation to the direction of travel of the chains, a central chain comprising under links positioned between said first mentioned links, each of said under links comprising two relatively flat surfaces having their edges inclined with relation to the direction of movement of said chains and carrying thereon upwardly inclined surfaces, said inclined surfaces being parallel to the direction of travel of said chains.

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1,690,978. TOY MONOPLANE. LILLIAN JATUNN, Troy, Mont. Filed July 22, 1927. Serial No. 207,756. 3 Claims. (Cl. 46—50.)
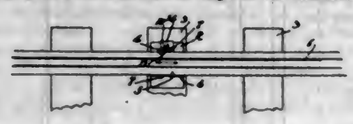


1. An inflatable toy comprising a monoplane formed of elastic material and including a hollow body simulating the fuselage of a monoplane with vertical and horizontal rudders at one end thereof, sheet rubber wings extending from opposite sides of the body, hollow inflatable leading edges provided upon the wings to stiffen said edges, said inflatable edges communicating with the hollow body, means whereby fluid may be introduced into the body and wings and a propeller for the monoplane.

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1,690,979. RAIL ANCHOR. ERNEST N. JOHNSON, Winnipeg, Manitoba, Canada. Filed Mar. 28, 1927. Serial No. 179,083. 3 Claims. (Cl. 238—304.)

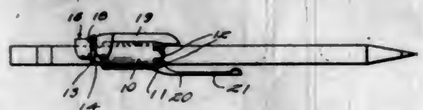
1. The combination with the base of a rail, a tie plate supporting the same, said plate being provided with a stop shoulder engaging one edge of the rail base, of an upstanding stud permanently attached to the plate and positioned somewhat back from the other edge of the rail base, a dog pivotally mounted on the stud and presenting a toothed face engageable with the latter edge of the rail and formed



eccentric to the stud, a cover overlying the dog, a spring extending between the cover and the dog and holding the dog normally engaged with the rail base and a pin fastening the cover to the stud.

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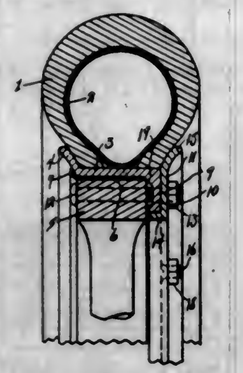
1,690,980. PENCIL CLIP. HARLEY S. JOHNSON, Erwin, Tenn. Filed Apr. 7, 1927. Serial No. 181,826. 4 Claims. (Cl. 120—84.)



1. In a pencil clip, a tube adapted to receive and frictionally hold a pencil and through opposite ends of which the pencil may extend, an arcuately curved blade support pivoted intermediate its ends to one end of the tube and swingable about said end of the tube to positions where it substantially aligns with the tube and either end thereof extends outwardly from the tube, a knife blade secured to and extending outwardly from one end of the support and means for frictionally holding the support in either of said positions.

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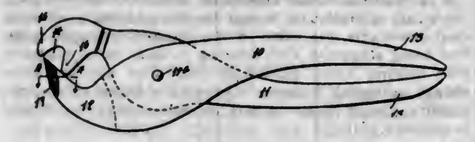
1,690,981. VEHICLE WHEEL RIM. WILLIAM A. JONES, Fort Worth, Tex., assignor to National Vehicle Rim Corporation. Filed Apr. 11, 1925. Serial No. 22,445. 2 Claims. (Cl. 301—19.)



1. A wheel rim comprising an annular body or ring engaging the outer periphery of the wheel felly and provided with an inwardly projecting annular flange having an annular laterally projecting flange engaging the side of the felly and forming a vacancy for wedging action, said ring having an annular inclined radial flange projecting outwardly for engaging and holding a tire on the ring, said body having an inner inclined surface at the juncture of said inwardly projecting flange, a band attached to the felly and provided with an outwardly projecting inclined flange for co-operating with said inclined surface of said body, a detachable rim member engaging said inwardly projecting flange and having a lateral flange engaging the inner periphery of sad first named flange, and bolts for locking said rim member to the wheel felly and to said inwardly projecting flange and for causing a tightening of said co-operating inclined members.



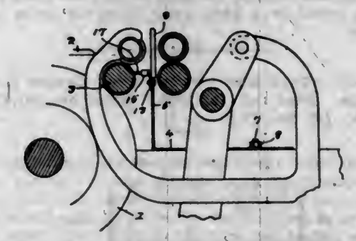
1,690,982. CAN OPENER. LOUIS KOSSUTH and CHARLES LANZA, Garfield, N. J. Filed Sept. 22, 1927. Serial No. 221,268. 1 Claim. (Cl. 81—3.1.)



A tool of the class described comprising relatively movable levers, one of said levers being bifurcated, the corresponding portion of the other lever being concave for the purpose specified, the bifurcation providing lugs on opposite sides thereof, the outermost lug being convex on its inner surface and the innermost lug being concave on its inner surface.

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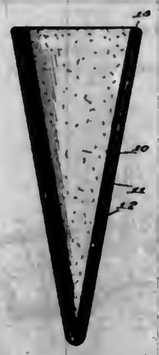
1,690,983. ATTACHMENT FOR COMBING MACHINES. ALFRED P. LAFLAM, Burlington, Vt. Filed June 10, 1927. Serial No. 197,907. 8 Claims. (Cl. 19—118.)



1. In a comber and in combination with the detaching rolls thereof, a support comprising a rightangular member having its horizontal arm adjustably but rigidly secured on the frame of the comber, a holder removably and vertically adjustably secured on the vertical part of the support, and a leather strip designed to be received in and supported by the holder and engaging one of the said rolls.

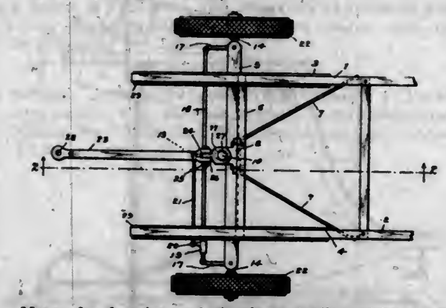
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1,690,984. ICE-CREAM CONE. FRED W. LANE and KENNETH M. ANDERSON, Oakland, Calif. Filed Aug. 21, 1925. Serial No. 51,654. 2 Claims. (Cl. 99—11.)



1. An ice cream cone having inner and outer walls of edible baked material, the inner wall being provided at its upper open end with an outstanding annular flange, said flange of the inner wall engaging the upper edge of the outer wall and serving to support the walls in spaced apart relation, and a confection filling in the said space between the walls said flange closing the space between the walls and protecting the confection filling.

1,690,985. APPARATUS FOR DRAWING AND STEERING TRAILER VEHICLES. VICTOR K. LIPP, Seattle, Wash. Filed July 26, 1927. Serial No. 208,556. 1 Claim. (Cl. 280—33.55.)



Means for drawing and steering a trailer vehicle having longitudinal frame members, steering wheels mounted on spindles having lever arms attached thereto, said arms being connected by a tie rod, comprising a block positioned centrally between the frame members and in the same plane therewith, a shaft mounted perpendicularly in the block, a lever arm secured perpendicularly to one end of the shaft, a shaft rod pivotally connected to said lever arm and the tie rod and a tongue member attached to the shaft and extending therefrom in the plane of the frame members for drawing the vehicle and controlling through said shaft the steering wheels, whereby the load of the vehicle is transmitted through said tongue in the plane of said frame of the vehicle.

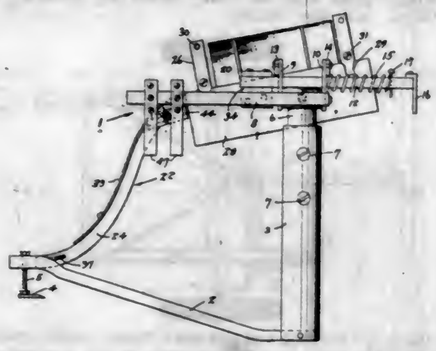
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1,690,986. HEATING DEVICE. BARNETT WRIGHT MACY, Jacksonville, Fla., assignor to The Commercial Clearing Corporation, Jacksonville, Fla., a Corporation of Florida. Filed Sept. 21, 1927. Serial No. 221,112. 1 Claim. (Cl. 219—38.)



A device of the character described comprising a hermetically sealed cylinder filled with oil, a sleeve formed of insulating material mounted axially on the cylinder, an electric resistance wire in the form of a spiral coil and composed of two sections arranged on the sleeve, one section being spirally wound around the sleeve in one direction, a second section being wound spirally around the sleeve in an opposite direction to the winding of the first mentioned section, means for connecting the free ends of the sections with a source of current, a thermostat located in the path of oil, and means for interpolating the thermostat between the source of current and the free end of the coil.

1,690,987. NAIL SETTER. EDWARD F. MALOUF, Marysville, Calif. Filed Feb. 12, 1927. Serial No. 167,743. 11 Claims. (Cl. 1—47.)

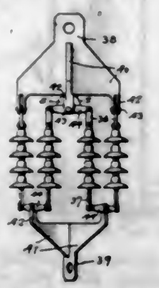


1. In a nail setter adapted for setting nails at predetermined spots, a frame; a receptacle slidably mounted on the frame and adapted to receive nails therein; conveying means connected with the receptacle for leading the nails therefrom; and means adapted to engage the frame and to be actuated thereby when the receptacle is slidably moved for releasably holding a nail in the conveying means while the nail is set

1,690,988. MOTOR FUEL. SAMUEL P. MARLEY, Pittsburgh, and WILLIAM A. GRUSE, Wilkinsburg, Pa., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Aug. 25, 1924. Serial No. 734,120. 5 Claims. (Cl. 44—9.)

1. As a new composition of matter, gasoline containing in saturated solution a plurality of detonation precluding hydrocarbon derivative compounds each having a solubility in gasoline of the order of not more than 0.5 per cent and each of the respective hydrocarbon derivative compounds present imparting to the gasoline detonation precluding properties.

1,690,989. MULTIPLE-STRING INSULATOR SUSPENSION. RICHARD H. MARVIN, East Liverpool, Ohio, assignor to The R. Thomas & Sons Company, East Liverpool, Ohio, a Corporation of Ohio. Filed May 24, 1926. Serial No. 111,418. 4 Claims. (Cl. 173—318.)



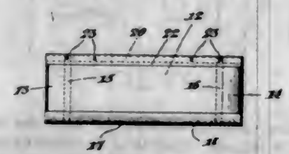
1. A multiple string suspension insulator unit comprising a pair of spaced hangers, a series of balance levers pivoted on the respective hangers, the axes of the levers on one hanger being staggered with respect to the axes of the levers on the other hanger, in combination with a series of insulator strings connecting said hangers, adjacent strings being connected at one end to the opposite ends of a lever pivoted on one hanger, while the other ends of said strings are connected to adjacent levers pivoted on the other hanger, to afford a flexible interconnection between the several strings operative to evenly distribute between the said strings the mechanical stresses imposed upon the group.

4. A multiple string suspension insulator unit comprising a pair of multi-arm hanger members having a common suspension axis, the arms of the respective hanger members being staggered with relation to each other, together with balance levers carried by said arms and insulator strings extending between the balance levers of the respective hanger members and interconnecting the levers in sequence.

1,690,990. PROCESS OF MAKING ALUMINUM CHLORIDE. ALMER M. MCAFEE and GERALD I. ROBERTS, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Sept. 26, 1927. Serial No. 222,108. 12 Claims. (Cl. 23—95.)

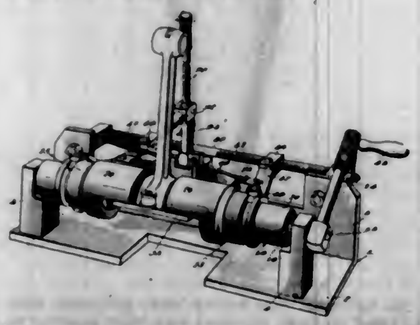
11. In the manufacture of aluminum chloride the process which comprises establishing a mass of aluminous material and carbon in a reaction chamber, grading the mass so that it is denser at the walls of the chamber than at other points, and passing a mixture of chlorin and combustion supporting gas under aluminum chloride producing conditions through the mass so that the gases preferentially travel in a path away from the walls of the chamber.

1,690,991. STAIR RUG. FRED ORANGE, Ottawa, Ontario, Canada. Filed Oct. 11, 1926. Serial No. 141,016. 1 Claim. (Cl. 20—79.)



A flexibly reinforced carpet for stairs, floors and the like, comprising in combination a rug section adapted to fit the steps of stairs and to extend over the edge thereof, flexible metallic strips secured on the under side of said section at each side and adapted to be bent to form a resilient gripping portion for the edge of the step and when unbent to retain the edges and corners of the section flat, a metallic edging for the strip and an auxiliary reinforcing cross strip for the section.

1,690,992. BABBITTING MACHINE. THOMAS H. ORR, Okmulgee, Okla. Filed May 15, 1926. Serial No. 109,379. 17 Claims. (Cl. 22—123.)

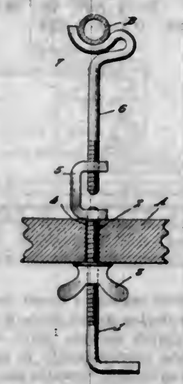


8. A machine for rebabbitting bearings comprising a mandrel having an opening adapted to be centrally disposed with the bearing to be rebabitted, heads slidably mounted on the mandrel and having elements engageable with the ends of the bearing to be rebabbitted, means for shifting the heads back and forth on the mandrel and



comprising a rotatable shaft having oppositely threaded portions, nuts engaged with the threaded portions, levers pivotally connected to the nuts and having operative connection with the heads, and means connected with the intermediate portions of the levers for shifting the same about the nuts as fulcrums.

1,690,993. SCREED CHAIR. LE ROY R. OWEN and OWEN E. WHITEMAN, South Bend, Ind. Filed July 30, 1927. Serial No. 209,573. 2 Claims. (Cl. 72—122.)



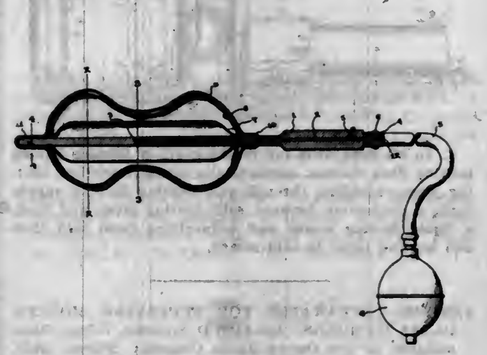
2. Screed supporting means comprising a screw threaded member having a handle thereon, with its threaded portion adapted to be passed through a hole in a form, a central member having upper and lower threaded holes therein, the lower hole receiving the threaded portion of said member when said central member rests upon the form, a nut on the threaded part of the member for engaging the lower face of the form, with the central member engaging the upper face thereof and a screed supporting member having its lower end threaded to engage the upper threaded hole in the central member.

1,690,994. ELECTRIC HEATER. DALTON U. POWELL, Woodsfield, Ohio, assignor of one-third to Samuel K. Frank and one-third to Ray L. Davis, Wheeling, W. Va. Filed Oct. 10, 1927. Serial No. 225,854. 5 Claims. (Cl. 219—19.)



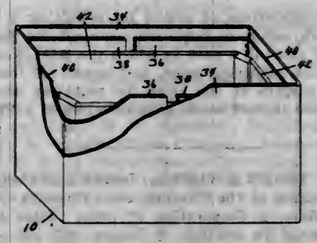
5. An electric heater comprising a tube closed at its lower end and internally threaded at its upper end, a tubular cylindrical body having its lower end threaded into the upper end of said tube, the upper end of said body being split and tapered for contraction tightly around a current conducting cable, a nut threaded on said split tapered end for contracting said end, cable-engaging packing means in said body, and means for compressing said packing means to cause tight contact thereof with the body and cable.

1,690,995. ANORECTAL DILATOR. NORMAN F. PRATT, Jacksonville, Fla., assignor to Monte Lloyd Corporation, Miami, Fla. Filed Dec. 28, 1927. Serial No. 243,190. 7 Claims. (Cl. 128—344.)



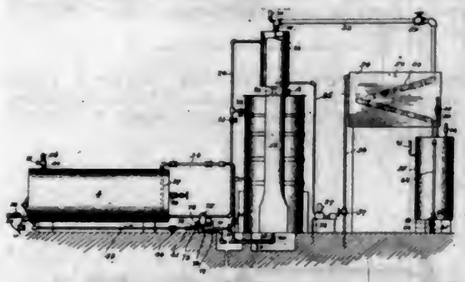
1. A dilator comprising a core, an expansible member mounted on said core, means for expanding said expansible member, and means comprising a casing for limiting said expansion.

1,690,996. ELECTRIC SWITCH. CHESTER D. AINSWORTH, Wollaston, Mass., assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass., a Corporation of Massachusetts. Filed Sept. 21, 1927. Serial No. 221,071. 12 Claims. (Cl. 200—150.)



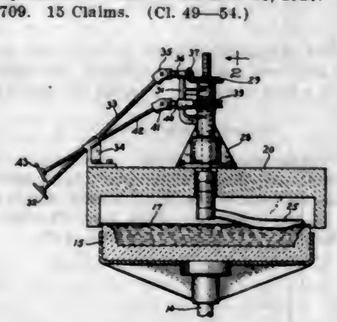
1. An electrical apparatus having a current conducting component and a member normally disposed in the magnetic field of said component and liable to be heated by the alternating magnetic flux surrounding said component, and means interposed between said member and said current carrying component characterized by shielding said member against the magnetic flux surrounding said current conducting component, said shielding means being further characterized by having hysteresis and eddy current losses which are materially less than the corresponding losses of said member.

1,690,997. APPARATUS FOR TREATING OILS. CARBON P. DUBBS, Wilmette, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed July 9, 1917. Serial No. 179,388. 2 Claims. (Cl. 196—108.)



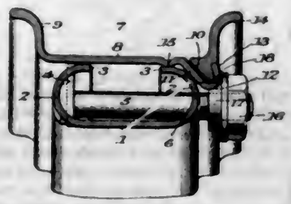
1. In an apparatus for cracking oil, a furnace having heating flues therein, substantially straight vertical heating pipes extending through said heating flues, a supply tank, a connection between said heating pipes and tank, a liquid forcing means and connections from said tank and heating pipes to said means.

1,690,998. APPARATUS FOR SUPPLYING MOLTEN GLASS TO MOLDS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 16, 1927. Serial No. 175,709. 15 Claims. (Cl. 49—54.)



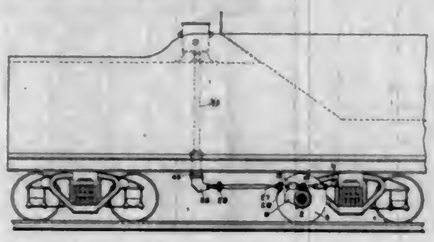
1. The combination of means for supplying a body of molten glass, means to cause movement of the glass past a gathering point in a path by which the glass is again returned to the gathering point, and means for forcing beneath the surface of the glass for reheating reassimilation, portions thereof which have been chilled at the gathering point.

1,690,999. VEHICLE WHEEL. JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 11, 1922. Serial No. 606,035. 4 Claims. (Cl. 301—18.)



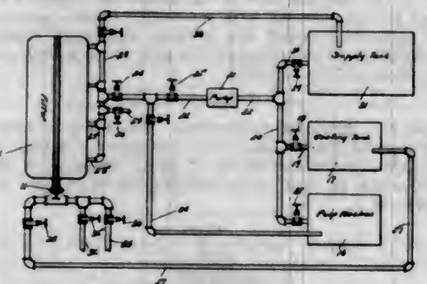
1. A vehicle wheel comprising, in combination, a hollow metal felloe having rounded side walls and a cylindrical periphery, a removable tire supporting rim provided with an oblique edge flange for engaging one side wall of the felloe with a wedging action when said rim is moved laterally of the felloe in one direction, said flange having spaced notches therein, and means for forcing the rim laterally of the felloe and engaging the notches to prevent relative turning movement of the rim and felloe.

1,691,000. GOVERNOR TRANSMISSION FOR TRAIN-CONTROL SYSTEMS. HERBERT B. TAYLOR, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Nov. 26, 1926. Serial No. 150,839. 12 Claims. (Cl. 105—119.)



1. In a train control system, a speed responsive device, drive means for the device driven from a railway vehicle axle, a disconnect clutch for the drive means, an electric switch controlling energy supply to the train control system, and a single manually operable means for simultaneously disconnecting the clutch and opening the switch.

1,691,001. PROCESS FOR FILTERING ELEMENTS. HENRY A. VALLES, Bay City, Mich. Filed May 19, 1922. Serial No. 562,257. 3 Claims. (Cl. 210—199.)

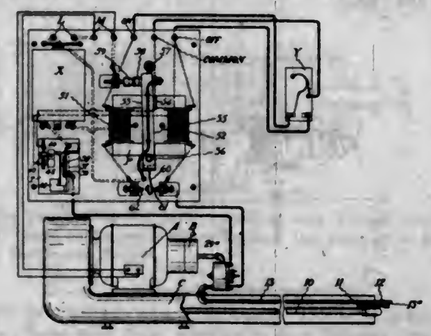


1. A process for filtering which consists in circulating a mixture of pulp and liquid through a rotating filtering element to form on the filtering element a uniform coating of pulp to provide a filter mat for said element, filtering juices under pressure through the filtering element after the formation of the filter mat until the latter becomes clogged, reversing the flow of the juices to remove the juices in the filter and return the said juices to the source of supply, removing the pulp from the clogged filtering element, washing the pulp after such removal, and finally recoating the filtering element with the washed pulp by circulating a mixture of the same and liquid through the filtering element.

1,691,002. SAFETY CONTROL MECHANISM FOR FUEL-FEEDING DEVICES. WALTER W. WILLIAMS, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed Aug. 31, 1923, Serial No. 660,314. Renewed Jan. 20, 1926. 9 Claims. (Cl. 158—28.)

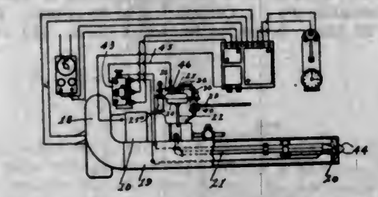
3. The combination with a fuel burning device comprising, electrically operated means for projecting air and fuel into a zone of ignition, a combustion chamber, and a safety device including a switch member adapted to stop the burner upon failure of combustion, a heat responsive means removed from the combustion chamber connected with said switch adapted to prevent operation of the switch





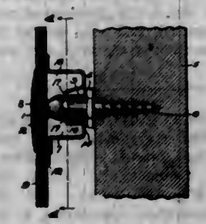
member when combustion occurs, and means for transmitting heat from the combustion chamber to the heat responsive means, said transmitting means being rendered operative solely by the activity of the electrically operated means.

1,691,003. IGNITION DEVICE FOR LIQUID-FUEL BURNERS. WALTER W. WILLIAMS, Bloomington, Ill., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill., a Corporation of Illinois. Filed Dec. 1, 1924. Serial No. 753,167. 2 Claims. (Cl. 158—28.)



1. In an electrically-operated liquid fuel burner including a motor for supplying liquid fuel to the burner nozzle, electrically-actuated ignition means adjacent the burner nozzle, an auxiliary gas supply connected to the liquid fuel supply means, means for simultaneously operating the fuel supply motor and ignition means and causing said fuel supply means to deliver the auxiliary gas to the burner nozzle whereupon it is ignited by the ignition means, and means actuated by the accumulated pressure created within the fuel supply means after initial operation to cut off the auxiliary gas supply and discontinue the operation of the ignition means.

1,691,004. SEPARABLE FASTENER. SOLON D. BOYNTON, Boston, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924, Serial No. 757,153. Renewed May 31, 1928. 7 Claims. (Cl. 24—216.)



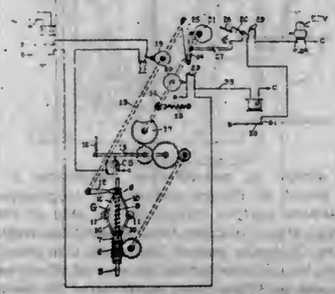
6. A socket for a separable fastener including a casing having a base portion secured to a suitable support, a wall extending from said base in a direction away from the support, a web extending inwardly from the outer end of said wall to provide a stud-receiving aperture, resilient portions of substantial length extending from said web toward said base and surrounding the stud-receiving aperture and jaw portions presented by the free ends of said resilient portions for engaging the neck of a stud.

1,691,005. FIBER INSULATOR AND METHOD OF MAKING THE SAME. EDMUND BURKE, Portland, Me., assignor to Brown Company, Portland, Me., a Corporation of Maine. Filed Sept. 11, 1925. Serial No. 55,851. 3 Claims. (Cl. 18—47.5.)



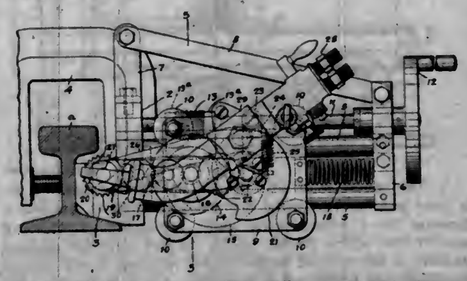
1. The method of making petticoat insulators which consists in preparing a blank of wet laid fibrous stock, in rough shaping said blank while moist, in drying the rough shaped blank, in impregnating the blank with a dielectric thermo-plastic and die finishing under pressure.

1,691,006. TRAIN CONTROL. CHARLES S. BUSHNELL, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed July 25, 1924. Serial No. 728,186. 12 Claims. (Cl. 246—182.)



1. In an automatic train control system, vehicle carried brake control apparatus including a restrictive speed device imposing a restrictive brake control in response to unfavorable traffic conditions ahead, means for driving elements of said restrictive speed device in accordance with the motion of the vehicle, means for imposing a brake application if said driving means stops, and further means speed initiated and operated in accordance with the train, for preventing said brake application if said driving means has stopped because of a lack of motion of the vehicle.

1,691,007. TORCH MACHINE. JOHN J. CROWE, Westfield, and JOHN H. W. BEDEROW, Secaucus, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 23, 1927. Serial No. 193,708. 17 Claims. (Cl. 266—23.)

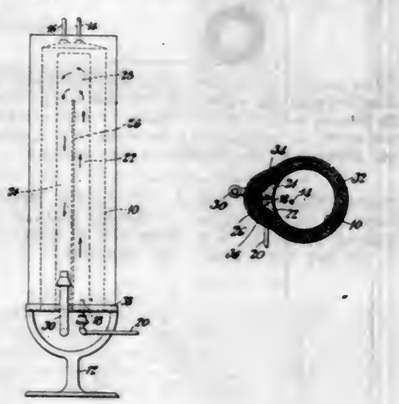


1. An apparatus for cutting rails or entrant shapes, comprising a frame, a center, means carrying said center from said frame so that said center will travel in a path

of irregularly changing direction appropriate to the entrant contour, jet-delivering means carried by said center, means for continuously moving said center along said path and thereby moving said jet-delivering means, and means for turning said jet-delivering means about said center in the same plane of movement.

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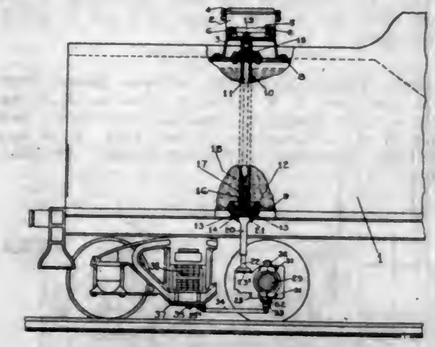
1,691,008. GAS WATER HEATER. ROBERT G. GRISWOLD, Westfield, N. J., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 4, 1925. Serial No. 73,167. 2 Claims. (Cl. 122—19.)



1. An article of manufacture comprising a heat-insulating jacket of fibrous material, a longitudinally extending salient portion formed in one side of the jacket and grooved along its inner face, a partition dividing said portion for the major part of its length into two channels which are in communication at one of their ends, the channels and partition being constructed of fire-resistant material.

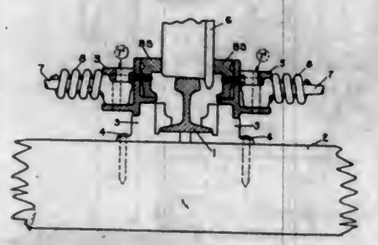
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1,691,009. TRAIN CONTROL. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Apr. 28, 1924. Serial No. 709,469. 5 Claims. (Cl. 105—119.)



1. The combination of a tender having the usual tank, a tube passing vertically through said tank to provide a passage for a transmission shaft, a housing surrounding one of the axles of the tender having suitable gearing therein, a ball shaped socket in said housing, a ball shaped socket at the lower end of said tube, and a telescopic tube having ball shaped ends connecting said housing and tube.

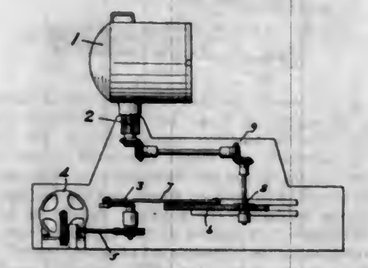
1,691,010. BRAKE SHOE FOR CAR RETARDERS. WINTHROP K. HOWE, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Oct. 10, 1927. Serial No. 225,301. 6 Claims. (Cl. 188—250.)



5. A car retarder brake shoe, comprising, a rolled steel section having a relatively narrow body, a friction head projecting inwardly from one end of the body, a support toe projecting inwardly from the other end of the body, and grooved out portions in the outer face of said brake shoe.

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1,691,011. BEACON. EDWARD W. JACKSON, Philadelphia, Pa., assignor to B. B. T. Corporation of America, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 29, 1926. Serial No. 84,540. 1 Claim. (Cl. 240—49.)



A beacon comprising a revoluble searchlight of which the beam is constantly swept over the entire field of approach, a rack and pinion mechanism for oscillating it, a crank mechanism for reciprocating the rack, a normally centered element connected with and movable in respect to the rack and to which the connecting rod of the crank mechanism is connected, and stop means for augmenting the dwell in the motion of the rack bar near the ends of the strokes.

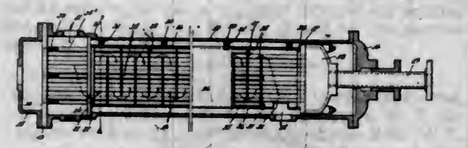
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1,691,012. HEAT-EXCHANGE APPARATUS. GEORGE T. JACOCKS, West Hartford, Conn., assignor to The Whitlock Coil Pipe Company, West Hartford, Conn., a Corporation of Connecticut. Filed Dec. 10, 1926. Serial No. 153,858. 5 Claims. (Cl. 257—219.)

1. In a heat exchange apparatus, a pair of spaced sheets having on their opposed faces circular flanges, tubes extending through said sheets, a plurality of baffles between said sheets and through which said tubes extend,



the perimeters of said baffles being in alignment with one another and in alignment with said flanges, and a shell comprising a sheet of metal wound about said



baffles and having its ends encircling said flanges, said shell being contracted tightly against the perimeters of said baffles and flanges.

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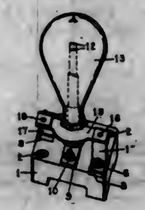
1,691,013. SEPARABLE FASTENER. ALFRED F. JOHNSON, Somerville, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Dec. 20, 1924. Serial No. 757,150. 15 Claims. (Cl. 24—216.)



1. A socket for a three-side lock fastener including a front plate located upon that side of a socket-carrying fabric opposite the side from which the stud enters the socket, neck-engaging jaws integral with and formed from said front plate and a back plate located upon the opposite side of the fabric from said front plate, said back plate presenting a stud-receiving aperture therethrough having a wall closely embracing the shank of a stud at three sides to oppose relative tipping movement between the stud and socket at three sides thereof, while extended at the fourth side to permit separation of the stud and socket by relative tipping movement.

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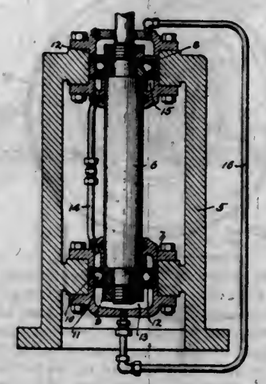
1,691,014. REBASING LAMPS. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed July 28, 1922. Serial No. 578,148. 10 Claims. (Cl. 176—32.)



1. In a light unit, the combination with a commercial incandescent lamp having a conducting base, a center contact and a concentrated filament, of a strap of metal rigidly fastened to the base of said lamp so as to have a predetermined relation with said filament, and a support comprising an insulating base, a pair of supports on said base for engaging the ends of said strap to support it in a predetermined manner, and a spring contact adapted to engage the center contact of said lamp.

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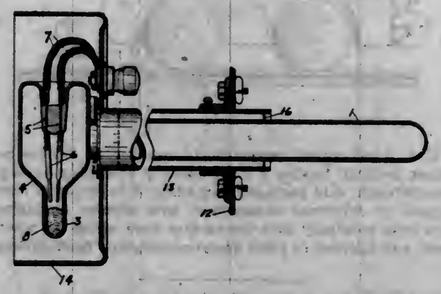
1,691,015. LUBRICATING MEANS FOR ANTIFRICTION BEARINGS. FAYETTE LEISTER, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Dec. 11, 1926. Serial No. 154,115. 3 Claims. (Cl. 308—187.)



1. In a device of the character described, inner and outer raceway members, antifriction bearing members interposed therebetween, a retainer member for said antifriction bearing members, said retainer member having pumping means embodied therein whereby upon rotation of said retainer member lubricant will be pumped to the anti-friction bearing members and axially through said bearing.

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1,691,016. TEMPERATURE-CONTROL SWITCH. IRA E. MCCABE, Chicago, and RAYMOND W. ARMSTRONG, Wilmette, Ill.; said Armstrong assignor to The Arcless Contact Company, a Corporation of Illinois. Filed Apr. 10, 1926. Serial No. 101,040. 3 Claims. (Cl. 200—141.)

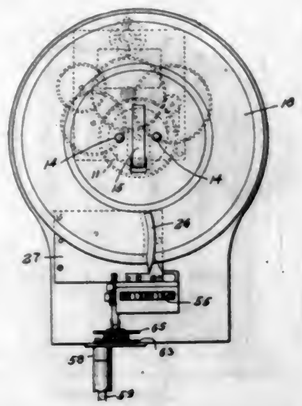


1. A switch device comprising a sealed glass receptacle containing a gas; said receptacle consisting of a long horizontal hollow stem terminating in a conduit bent downwardly and then upwardly to form an elbow, and a bulb beyond the elbow; a quantity of mercury in said elbow

sufficient to form a seal when it is at its natural level; and a contact means in said bulb located so as to be out of engagement with the mercury when the latter is at the aforesaid level; there being a small well in the bottom of said bulb, in position to permit a ready transfer of mercury between the same and the elbow upon tilting the device.

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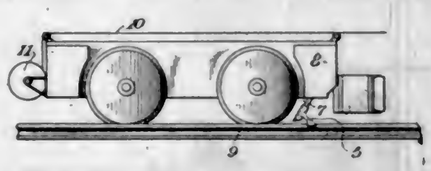
1,691,017. RECORDING METER. PAUL RICHERT, New York, N. Y., assignor to Pittsburgh Taximeter Company, a Corporation of Pennsylvania. Filed Dec. 18, 1923. Serial No. 681,373. 9 Claims. (Cl. 234—1.)



1. In a device of the character described, a perforator adapted to form a series of perforations in a recording chart, a pivoted perforator projector provided with a sliding contact plate and means for oscillating said projector so as to bring said plate into contact with and actuate said perforator.

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1,691,018. WHEEL GUARD. CHARLES A. SCOTT, Rome, N. Y., assignor, by mesne assignments, to General Cable Corporation, New York, N. Y., a Corporation of New Jersey. Filed June 30, 1927. Serial No. 202,476. 5 Claims. (Cl. 293—58.)

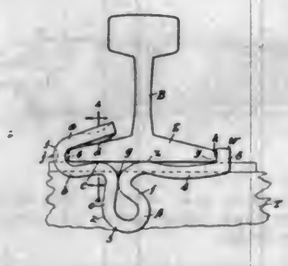


1. A wheel guard comprising a member of flexible resilient material having a longitudinally extending passage therethrough, said passage being adapted to receive a fixed support in frictional engagement, said member extending into close proximity with the surface upon which the wheel rests, and adapted to yield upon encountering fixed objects.

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1,691,019. RAIL ANCHOR. CHARLES B. SHEPHERD, New York, N. Y., assignor to Willard Reid, Scarsdale, N. Y. Filed Dec. 7, 1927. Serial No. 238,342. 22 Claims. (Cl. 238—330.)

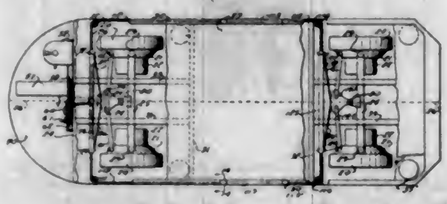
22. A traction rail anchor comprising an elongated body member formed at one end into an open loop and its other end formed into an upstanding lip, the intermediate portion of said member being formed into a depending loop having the outer ends of its leg portions contacting only



at a point below the plane of said body member, the inner face of said body member being raised at points adjacent said loop and said lip.

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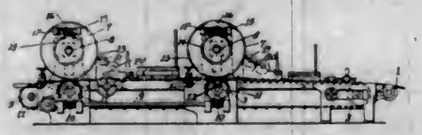
1,691,020. STEERING GEAR. WILLARD C. BRINTON, New York, N. Y., assignor to Terminal Engineering Company, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 17, 1921, Serial No. 522,987. Renewed Apr. 2, 1928. 30 Claims. (Cl. 280—91.)



1. In a vehicle steering gear, a pair of wheels having their planes normally substantially parallel, an arc shaped member comprising a segment of a sheave having a pair of grooves therein, a pair of ropes secured to said member and adapted to bear in the grooves of the sheave and to cause rotation of the member, and links operatively connecting said member with each of the wheels, each link being secured to the member at points on radii at angles on opposite sides of the axis of said member whereby movement of said rope causes unlike adjustments of the planes of said wheels.

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1,691,021. MACHINE FOR PRINTING RUGS. JOHN B. CAMPBELL, Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed June 11, 1926. Serial No. 115,399. 1 Claim. (Cl. 101—181.)

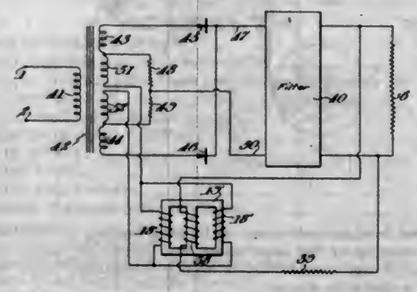


A flooring printing machine comprising a flat bed, spiked bands moving on both sides of the bed to carry a piece of flooring to be printed through the machine, a plurality of printing cylinders, said cylinders being of a size to retain circular printing plates thereon cut to form the respective color imprints of a complete unit design of a piece of flooring, tympan rollers located below the color imprinting lines of the rollers, and means for applying flooring paint to the plates at a point adjacent the printing line, so as to avoid flow thereof, as and for the purpose described.



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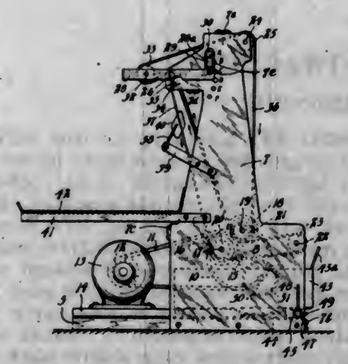
1,691,022. VOLTAGE REGULATOR. GEORGE B. CROUSE, Woodcliff, and JACOB L. JATLOW, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y., a Corporation of New York. Original application filed Sept. 8, 1926, Serial No. 134,249. Divided and this application filed Sept. 15, 1926. Serial No. 135,693. 11 Claims. (Cl. 175—363.)



1. A voltage regulator for an electrical system of the type including a source of energy, a load line and a resistance of substantially constant value, serially arranged in a circuit, said regulator comprising an additional circuit shunted across said resistance for applying thereto a regulating voltage, and means in said additional circuit so coupled to said series circuit that the voltage of said additional circuit is dependent upon the voltage across the load.

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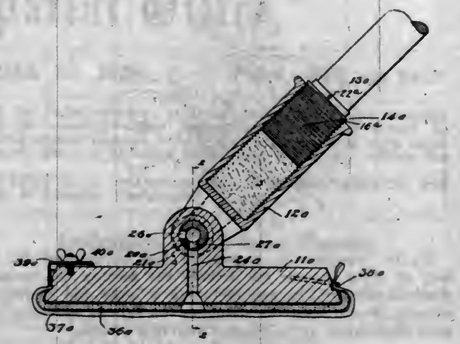
1,691,023. PRINT-FLATTENING DEVICE. GLEN M. DYE, Minneapolis, Minn. Filed Dec. 30, 1925. Serial No. 78,337. 22 Claims. (Cl. 92—70.)



1. A print flattening device having in combination, means for moistening a print, and means for flattening said print while moistened.

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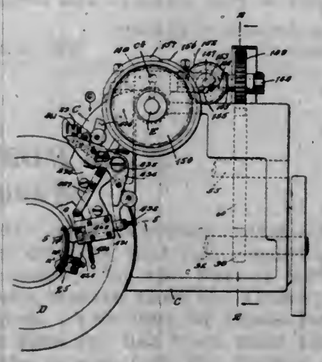
1,691,024. WAX-DISTRIBUTING FLOOR POLISHER. EDNA B. GEDGE, Los Angeles, Calif., assignor to Peerless Products Company, a Corporation of California. Filed Dec. 8, 1925. Serial No. 74,083. 3 Claims. (Cl. 91—39.)



1. In a floor waxer, a fabric-carrying weight having a substantially flat bottom; a wax container pivotally connected with said weight; a handle secured to said wax container and provided with means for ejecting wax therefrom; and means permitting a flow of wax directly from said wax container to and through said weight, said container is pivotally connected with said weight by means of interfitting parts having conical surfaces.

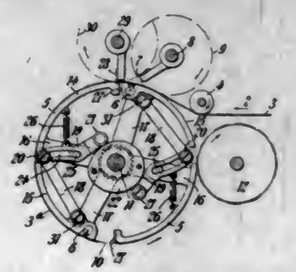
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1,691,025. CIRCULAR-KNITTING MACHINE. ALBERT E. PAGE, Brooklyn, N. Y., assignor to Scott and Williams, Inc., New York, N. Y., a Corporation of Massachusetts. Filed Apr. 7, 1925. Serial No. 21,393. 7 Claims. (Cl. 66—40.)



1. In a circular knitting machine a circumferentially free horizontal pattern means mounted on a vertical axis above the bedplate of the machine, in combination with means below the bedplate revolving said pattern means continuously in timed relation to the knitting head at angular and circumferential speed differing from those of the knitting head.

1,691,026. VARIABLE-FEED MECHANISM. ABRAHAM NOVICK, Flushing, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1921, Serial No. 457,734. Renewed Aug. 18, 1925. 19 Claims. (Cl. 164—67.)

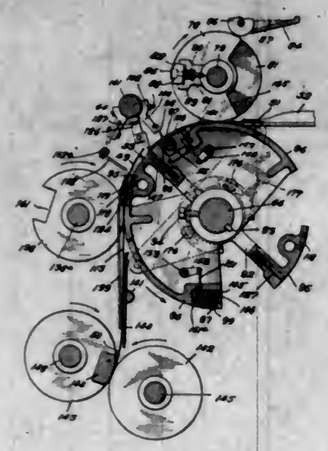


10. In combination, a positive feed mechanism for a web of paper, means for driving the feeding mechanism continuously, and means including a lever and a device to operate said lever for changing the rate of operation of said mechanism at particular intervals of time.

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1,691,027. ENVELOPE MACHINE. ABRAHAM NOVICK, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 27, 1924. Serial No. 740,170. 14 Claims. (Cl. 164—67.)

2. The combination of mechanism operating at a predetermined, uniform speed to feed a web at a given rate of speed, a second mechanism capable of feeding said web at a different rate of speed, means to change the web from the control of the first feeding mechanism to the control of the



second feeding mechanism while both feeding mechanisms are running at the same speed, and means to change the speed of the second named feeding mechanism after the web is under its control.

Patents Nos. 1,691,028 to 1,691,911.

# THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 376—No. 2. TUESDAY, NOVEMBER 13, 1928. Price—$10 per year.

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| Trade-Marks | 217—No. | 249,227 to No. | 249,543, inclusive. |
| T. M. Renewals | 44 | | |
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| Patents | 884—No. | 1,691,028 to No. | 1,691,911, inclusive. |
| Total | 1,354 | | |

## Applications—Final Action Thereon.

ORDER No. 3,084.

One of the best ways to expedite our work is to take such action as will conclude the prosecution of an application as speedily as possible, for once the prosecution is closed that case is "water over the dam."

It has been the uniform practice of this Office for years to allow an application forthwith when it is known to be in condition for issue. This is good business, and should be followed in every application where, from the record, which of course should be complete as to the applicant's reasons for allowance, or from the Examiner's knowledge of the case, he has reached the conclusion that the case should be either allowed or finally rejected. In other words, if an Examiner has a case which he is satisfied is in condition for allowance, or which he is satisfied will have to be finally rejected, he should give such action forthwith instead of making the case await its turn.

This will not only expedite business but will avoid the necessity at a later date of again reviewing the case or having it studied *de novo* by a new assistant in the event that the assistant who formerly had the case has left the Office.

This practice should be followed in every case where it is possible.

Whenever an Examiner tenders his resignation, the Principal should see that the assistant spends his remaining time as far as possible in winding up the old complicated cases or those with involved records and getting as many of his amended cases as possible ready for final disposition.

THOMAS E. ROBERTSON,
OCTOBER 29, 1928. *Commissioner.*

## NOTICE.

### WITHDRAWING CASES FROM ISSUE.

### RECORDING ASSIGNMENTS.

**The job of printing the Official Gazette with approximately 1,200 original cuts each week and of issuing over 1,200 patents, designs, and trade-marks each Tuesday, is so stupendous that it has been necessary for the Patent Office to rigidly enforce Rules 165 and 188 in order to make certain that the Gazette and patents will be issued on the day they are dated. The first of these rules is against withdrawing a case from issue after the final fee has been paid and the other makes it necessary for an assignment to "be recorded in the Patent Office at a date not later than the day on which the final fee is paid." Every now and then a request is made for the Office to make exceptions to one or the other of these rules. Therefore this notice is published so that those doing business with this Office may know that these rules are of necessity being rigidly enforced and that no exceptions can be made to them.**

**Oct. 18, 1928.**

**THOMAS E. ROBERTSON,**
**Commissioner.**

## Condition of Applications Under Examination at Close of Business November 2, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,930; Trade-Mark Division, 1,889. Oldest new case, Jan. 4, 1928; oldest amended, Jan. 10, 1928. The dates given are 1928 except where † indicates 1927.)

| Room No. | Divisions, Examiners, and Subjects of Inventions. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Feb. 23 | Mar. 1 | 1,546 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 7 | Mar. 7 | 1,656 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Feb. 23 | Mar. 21 | 1,397 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Jan. 27 | Jan. 28 | 1,336 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 1 | Feb. 1 | 1,526 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Jan. 26 | Feb. 4 | 2,822 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Jan. 25 | Jan. 25 | 1,923 |
| 133 | 8. HENRY, O. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 10 | Apr. 12 | 1,536 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Mar. 29 | Mar. 26 | 1,778 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Feb. 29 | Mar. 17 | 1,748 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | May 3 | May 5 | 399 |
| 380 | 12. PIERCE, P. P., Machine Elements | Mar. 1 | Feb. 17 | 1,985 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Feb. 25 | Feb. 23 | 1,499 |
| 107* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Feb. 6 | Feb. 7 | 1,156 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Jan. 19 | Jan. 25 | 2,009 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 6 | Mar. 19 | 1,215 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufacture; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Feb. 4 | Feb. 27 | 1,451 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Jan. 16 | Jan. 23 | 1,683 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Feb. 25 | Mar. 1 | 1,922 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking | May 3 | Apr. 30 | 1,401 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Feb. 1 | Mar. 1 | 1,047 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Jan. 28 | Jan. 28 | 1,613 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Jan. 10 | Jan. 14 | 1,123 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Feb. 8 | Feb. 18 | 1,556 |
| 302* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | Apr. 23 | 1,656 |
| 226* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Feb. 16 | Feb. 17 | 1,191 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 5 | Apr. 2 | 1,467 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 8 | Mar. 7 | 1,544 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Mar. 3 | Mar. 2 | 1,074 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Feb. 2 | June 7 | 1,433 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Feb. 21 | Feb. 25 | 2,082 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Jan. 23 | Jan. 26 | 2,120 |
| 152 | 33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | May 10 | May 22 | 2,010 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Jan. 19 | Feb. 1 | 1,356 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 8 | May 7 | 1,660 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring | Mar. 16 | Mar. 15 | 2,084 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 11 | Feb. 4 | 2,329 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Mar. 19 | Mar. 28 | 1,904 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Jan. 28 | Jan. 25 | 1,925 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Feb. 6 | Mar. 21 | 2,754 |
| 125 | 41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 1 | Feb. 29 | 1,433 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Jan. 24 | Mar. 3 | 1,586 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 13 | Mar. 22 | 2,161 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Feb. 11 | Feb. 17 | 2,028 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Jan. 10 | Mar. 2 | 2,448 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 4 | Feb. 4 | 1,840 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Feb. 24 | Mar. 8 | 1,993 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Feb. 16 | Feb. 9 | 1,596 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Feb. 27 | Feb. 28 | 1,800 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Feb. 28 | Feb. 28 | 2,571 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 6 | Feb. 9 | 2,200 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Mar. 9 | Mar. 9 | 2,222 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | Apr. 10 | Apr. 12 | 1,817 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Feb. 16 | Feb. 15 | 2,385 |
| 102 | 55. BOWEN, S. T. { Bread, Pastry, and Confection Making; Cutlery | Feb. 18 | Feb. 19 | 801 |
| | { Designs | Oct. 4 | Oct. 17 | 546 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Jan. 4 | Jan. 10 | 2,468 |
| 257* | 57. NICOLSON, C. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Feb. 25 | Feb. 9 | 1,147 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Jan. 9 | Jan. 11 | 1,200 |
| 315 | 59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 16 | Jan. 16 | 2,636 |
| 213* | 60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Jan. 24 | Feb. 2 | 1,708 |
| 209 | 61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Jan. 25 | Feb. 2 | 2,222 |
| 248* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Jan. 28 | Feb. 24 | 2,782 |
| 163 | Trade-Marks, Labels, and Prints: F. A. RICHMOND { Trade-Marks | Oct. 3 | Oct. 19 | 1,711 |
| | { Labels and Prints | Oct. 3 | Oct. 25 | 155 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Court of Appeals of the District of Columbia.

IN RE FOLTZ.

*No. 2,068. Decided June 4, 1928.*

PATENTABILITY—FURNACES.

**Claims for a furnace which differs from the prior art in that applicant employs a separate combustion chamber and does not use superheated steam *Held* patentable, since no one "can assume that Burckhardt's device would be operative without the superheated steam, and no one can assume that appellant's device would be operative without the combustion chamber."**

APPEAL from the Commissioner of Patents. Reversed.

*Mr. C. T. Brown* for Foltz.

*Mr. T. A. Hostetler* for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents rejecting appellant's claims for an invention relating to furnaces. The invention is fairly disclosed in the following claims:

1. A furnace comprising surrounding walls forming fire-box, ashpit and combustion chamber, and an unbroken continuous air conduit incased in one of the walls of said combustion chamber, said air conduit horisontally disposed and having an inlet located below the grate toward the front thereof and having an outlet located above the grate toward the front of the fire-box.

3. A furnace comprising surrounding walls forming a fire-box, ashpit and combustion chamber, and unbroken continuous U-shaped air conduits in the lateral sides of the floor of said combustion chamber, and having lateral branches passing through the bridge wall and in and along the side walls of the furnace adjacent the fire-box, these branches having inlets located in the ashpit towards the front thereof and outlets located in the fire-box towards the front thereof *and outlets located in the firebox towards the front thereof.*

6. A furnace comprising surrounding walls forming ash-pits, fire-box and combustion chamber, and an unbroken continuous U-shaped air conduit incased in one of the walls of said combustion chamber, said air conduit being horisontally disposed and having an inlet located below the grate toward the front thereof and having an outlet located above the grate toward the front of the fire-box, said air conduit being constructed to accommodate the said furnace automatically with any system of draft by delivering over the top of the fire therein a quantity of highly preheated air commensurate with the quantity of fuel distributed over the grate therein, together with the rate of the combustion of said fuel and the temperature of said furnace.

The claims were rejected upon a single reference: a patent to one Burckhardt, No 6,503, June 5, 1849.

The subject matter of the application is described by appellant as follows:

> This invention relates to a furnace of that general class where at least a part of the air supplied to the fuel is preheated. The purposes of the invention are to provide a practical design for use in connection with steam boilers and for rendering a furnace more efficient for heating the boiler, and incidentally preventing loss of fuel in the products of combustion.

In the operation of appellant's device, air is admitted in the ash-pit beneath the grate and passes through openings into a conduit located in the walls of the fire-box. It then passes through conduits located in the floor of what is described as the combustion chamber and then passes through conduits located in the walls of the fire-box, from which the air is discharged, through openings into the forward end of the fire-box above the grate.

Burckhardt, after describing the air flues as represented in his drawing, describes his device as follows:

> These flues open into the space below the grate, • • • thence they extend back a sufficient distance in the direction of the smoke flue, and on each side thereof, inclining upward till they nearly reach the level of the bottom of the flue, thence they cross over under the smoke flue to opposite sides, and thence return back to a point nearly over the commencement, and open into the fire chamber over the fuel, • • • through an oblong expanded orifice • • •; by this arrangement a current of air is kept up from the space below the grate through an extended tube, where it is heated to a certain degree; and then discharged into the gases arising from the fuel, and that created by the decomposed steam, and thereby a perfect combustion is produced. • • • The contraction of the flue under the boiler, and shaping it to the figure of the lower part of the boiler, adds greatly to the economy of the fuel, while the perfect combustion by the employment of the decomposed steam, and atmospheric air above the fuel, in the manner set forth, greatly increases the heating capacity and decreases the gases which are to be carried off by the smoke pipe.

The distinction between appellant's device and that of Burckhardt consists in two important features which seem to have been ignored by the Patent Office; namely, the existence in appellant's device of a separate combustion chamber, and obtaining the result by heated air without the addition of superheated steam, an element relied upon in the Burckhardt patent. The object of the combustion chamber in appellant's invention is apparent, since the great heat obtained in the chamber coacts with the air flowing through the conduit, resulting in raising the air to a sufficient temperature when brought in contact with the fuel gases to accomplish combustion without the use of superheated steam, as in the Burckhardt device.

When the tribunals of the Patent Office undertake to declare the Burckhardt invention operative without the use of superheated steam, and in the absence of appellant's combustion chamber, they are reading into Burckhardt's patent something not to be found therein, and something not assumed even by the inventor. No one can assume that Burckhardt's device would be operative without the superheated steam, and no one can assume that appellant's device would be operative without the combustion chamber, consequently the devices in their operative functions are distinctly different, and it is fair to assume that as appellant has devised something not disclosed in the Patent Office by anyone else, during the period of 70 years, since the date of the Burckhardt patent, that his invention marks an advance in the art that is entitled to recognition.

We do not agree with the statement in the brief of the learned counsel for the Commissioner that—

> "concisely stated, appellant takes air from beneath the grate, conducts it through conduits in the hot walls of the furnace back to the fire-box above the grate, where it is delivered in a preheated condition, and that is exactly what Burckhardt does. Burckhardt, in addition, has a system of spraying steam into the smoke flue, but that has nothing to do with the preheating of the air."

The difficulty with this statement is that appellant's device is aimed entirely at so preheating the air as to produce the result which Burckhardt attains by the addition of spraying steam into the smoke flue. Again the object of each is attained by

an entirely different method; and again counsel overlooks the additional combustion chamber in appellant's device, which is absolutely essential in accomplishing the result which he seeks to obtain.

We search the Burckhardt patent in vain to find any disclosure or suggestion of a substitute for superheated steam, or any claim that his invention would be operative with the superheated steam eliminated. On the contrary, we search appellants's specification and claims in vain in our effort to find any suggestion or disclosure whereby his invention would be operative with the addition of superheated steam. By the extra combustion chamber he does disclose a means by which the superheated steam may be eliminated.

We are clearly of the opinion that the claims of the appellant should be allowed, and if amendment of the claims as suggested, be found necessary, such amendment, if pertinent to the original disclosure, should be permitted.

The decision of the Commissioner is reversed.

## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

923,799, 935,612, C. W. Saalburg, Picture, filed Sept. 28, 1928, D. C., S. D. Ohio, W. Div., Doc. E 558, *Van Dyck Gravure Co.* v. *The Enquirer.*

935,612. (See 923,799.)

942,699. (See 1,019,406.)

1,001,887, J. A. Rathbone, Molding machine; 1,666,577, F. E. McCabe, same, filed July 16, 1928, D. C., E. D. Pa., Doc. 4451, *The Rathbone Machine Co.* v. *The Tabor Mfg. Co.*

1,019,406, L. H. Backeland, Composite cardboard; 942,699, same, Resinous body and method of producing same, D. C., S. D. N. Y., Doc. E 39/289, *Bakelite Corp.* v. *Carboloid Products Corp.* Consent decree sustaining patents and adjudging infringement (notice dated Sept. 21, 1928).

1,041,585, S. Borton, Sewing machine, appeal filed Sept. 22, 1928, C. C. A., 2d Cir., *Wilcox & Gibbs Sewing Machine Co.* v. *Union Special Machine Co.*

1,048,819, C. Fayer, Alternating-current rectifier; 1,266,931, same, Polarity-indicating mechanism for X-ray apparatus; 1,409,439, same, X-ray machine; 1,371,404, R. H. Wappler, High-potential electric machine, D. C., S. D. N. Y., Doc. E 39/182, *Wappler Electric Co., Inc.*, v. *Bronx Hospital Co., Inc.* Suit discontinued as to 1,048,819, 1,266,931 and 1,409,439; continued as to 1,371,404 (notice dated Sept. 20, 1928).

1,056,498, C. C. Buckels, Outlet-box support, filed Sept. 24, 1928, D. C., N. D. Ohio, E. Div., Doc. 2671, *Roach-Appleton Mfg. Co.* v. *Hub-Way Mfg. Co.*

1,080,630, E. V. Hartford, Antivibration device for vehicles, D. C. Del., Doc. E 623, *E. V. Hartford, Inc.*, v. *Lincoln Products Co.* Consent decree holding patent valid and infringed Sept. 20, 1928.

1,114,299, L. Severus, Electric-light fixture, appeal filed Sept. 26, 1928, C. C. A., 2d Cir., Doc. 10172, *C. H. Jockmus* v. *E. Leviton et al.*

1,125,476, G. Claude, System of illuminating by luminescent tubes; 1,191,495, same, Method for separating neon from gases with which it is mixed, D. C., N. D. Calif. (San Francisco), Doc. 1809, *Electrical Products Corp.* v. *Standard Electric Sign Co.* Complaint dismissed as to Patent 1,191,495; Patent 1,125,476 held valid Sept. 19, 1928.

1,184,804, E. M. White, Splash trough; 1,224,694, same, Lubricating system for internal-combustion engines; 1,238,233, same, Lubrication control for internal-combustion engines; 1,241,589, same, Interceptor for splash-lubrication crank cases; 1,256,754, same, Splash oiling system, filed Sept. 25, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O-44-J, *E. M. White* v. *The Studebaker Corp. et al.*

1,191,495. (See 1,125,476.)

1,212,840, F. J. Straub, Building block and method of making same, C. C. A., 3d Cir., Doc. 3776, *Crozier-Straub, Inc., et al.* v. *T. Graham et al.* Doc. 3777, *Crozier-Straub, Inc., et al.* v. *J. Melmond et al.* Doc. 3778, *Crozier-Straub, Inc., et al.* v. *E. G. Deemer.* Patent held valid and infringed Sept. 26, 1928, in each of the above cases.

1,214,168, Johnson & Benson, Edible container; Des. 67,018, J. Denaro, same, filed Sept. 27, 1928, D. C., E. D. Pa., Doc. 4581, *American Pastry Products Corp.* v. *Philadelphia Ice Cream Cone Machinery Co.*

1,224,694. (See 1,184,804.)

1,236,770, R. W. Scott, Striping attachment for knitting machine, filed July 25, 1928, D. C., E. D. Pa., Doc. 4575, *Scott & Williams, Inc.*, v. *Reading Automatic Machine Co. et al.*

1,238,233. (See 1,184,804.)

1,241,589. (See 1,184,804.)

1,256,754. (See 1,184,804.)

1,263,355, P. Artigue, Means for producing animated shadowgrafs, D. C., S. D. Calif. (Los Angeles), Doc. E K-54-M, *P. Artigue* v. *Fox Film Corp. et al.* Dismissed without prejudice July 16, 1928. Same, filed Sept. 25, 1928, D. C., S. D. Calif. (Los Angeles), Doc. O-43-M, *P. Artigue* v. *H. L. Jones.*

1,266,931. (See 1,048,819.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, D. C., N. D. Ohio, E. Div., Doc. 2377, *The Bassick Mfg. Co.* v. *The Wellach Bros. Co.* Patents held infringed (notice dated Sept. 27, 1928).

1,307,734. (See 1,307,733.)

1,307,734, A. V. Gullborg, Lubricating means; 1,401,765, E. W. Davis, Lubricating systems; Re. 14,667, F. D. Winkley, same; 1,459,662, C. W. Mansell, same, D. C., N. D. Ohio, E. Div., Doc. 1275, *The Bassick Mfg. Co.* v. *Peerless Automatic Machine Co.* Claim 12 of Re. 14,667, and claims 1, 2, 4, 7, 8 and 15 of 1,307,734 held valid and infringed, claim 12 of 1,307,734 and claims 8 and 9 of 1,459,662 held invalid and claim 6 of Re. 14,667 held valid but not infringed (notice dated Sept. 29, 1928).

1,371,404. (See 1,048,819.)

1,391,750, R. C. Montgomery, Straw hat, D. C., S. D. N. Y., Doc. E 46/224, *Knox Hat Co., Inc.*, v. *Wallkill Hat Works, Inc.* Consent decree sustaining patent and adjudging infringement (notice dated Sept. 21, 1928).

1,395,362, 1,576,225, 1,576,226, 1,622,846, C. F. Rubeam, Vehicle wheel, filed Sept. 27, 1928, D. C., E. D. Mich., S. Div., Doc. 2907, *Rubeam Corp. et al.* v. *General Motors Corp. et al.*

1,401,765. (See 1,307,734.)

1,408,106, H. McCabe, Flanging machine, D. C., S. D. Calif. (Los Angeles), Doc. J-98-M, *H. McCabe* v. *G. Darby (Darby Boiler Works) et al.* Dismissed for want of prosecution July 16, 1928.

1,409,439. (See 1,048,819.)

1,418,162. (See Des. 48,248.)

1,432,259. (See Re. 15,129.)

1,434,998. (See Des. 48,248.)

1,447,001, F. J. Winchell, Shank reenforce, D. C. Mass., Doc. E 2544, *J. L. Shevenell et al.* v. *G. J. Kelly, Inc.* Dismissed July 27, 1927.

1,447,090, J. E. Langsdorf, Necktie, filed Sept. 27, 1928, D. C., S. D. N. Y., Doc. E 46/362, *Frano-Strohmenger & Cowan, Inc.*, v. *W. Kornberg et al.*



1,456,528, H. D. Arnold, Electric discharge device; 1,459,412, A. McNicolson, Thermionic translating device; Re. 15,278, I. Langmuir, Electron-discharge apparatus, D. C., S. D. N. Y., Doc. E 44/332, *Radio Corp. of America et al.* v. *Tectron Radio Corp.* Patents held valid and infringed Sept. 21, 1928.

1,459,412. (See 1,456,528.)

1,459,662. (See 1,307,734.)

1,463,589. (See Des. 48,248.)

1,474,003, H. R. Ricardi, Internal-combustion engine, filed Sept. 24, 1928, D. C., S. D. N. Y., Doc. E 46/352, *Waukesha Motor Co.* v. *Mack Trucks, Inc., et al.*

1,487,189, 1,534,621, L. J. Wahl, Clipper, filed Sept. 24, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2405, *L. J. Wahl* v. *Allover Mfg. Co.*

1,508,757, F. I. Alexander, Device for torpedoing wells, filed Sept. 18, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O-41-J, *The F. Alexander Corp.* v. *M. A. Pryor (Pryor Well Shooting Co.).*

1,509,418, A. E. Cofrin, Method of making crepe paper, D. C., E. D. Wis. (Milwaukee), Doc. 2015, *Fort Howard Paper Co.* v. *Hoberg Paper & Fibre Co.* Consent decree for plaintiff Sept. 26, 1928.

1,523,964, H. Horig, Signaling apparatus; 1,602,114, Kazenmaier & Haehnle, Signaling instrument of power vehicles; 1,603,073, Delmer & Durst, Electromagnetic sounding device, D. C., S. D. Ind. (Indianapolis), Doc. 1045, *General Motors Corp. et al.* v. *The Gibson Co.* Plaintiff dismisses suit without prejudice as to 1,603,073 Sept. 25, 1928.

1,527,395, 1,527,396, 1,589,718, A. E. Ridderstrom, Folding machine and method, appeal filed Sept. 24, 1928, C. C. A., 1st Cir., Doc. 2289, *Beacon Folding Machine Co.* v. *Rotary Machine Co. et al.*

1,527,396. (See 1,527,395.)

1,527,509, 1,562,878, N. T. Ewer, Foam stabiliser; 1,591,401, W. Palmer, Method of and apparatus for extinguishing fires, filed July 16, 1928, D. C., E. D. Pa., Doc. 4553, *Amdyco Corp.* v. *E. M. Urquhart et al.*

1,534,621. (See 1,487,189.)

1,547,623, E. L. Smalley, Electric furnace, filed Sept. 18, 1928, D. C. Del., Doc. E 694, *Heat Duty Electric Co.* v. *Ryan, Bosley & Co.*

1,547,853, E. A. Wheeler, Road planer and grader, D. C., S. D. Calif. (Los Angeles), Doc. E J-45-M, *E. A. Wheeler* v. *O. Davis et al.* Dismissed July 17, 1928.

1,562,878. (See 1,527,509.)

1,576,225. (See 1,395,362.)

1,576,226. (See 1,395,362.)

1,589,718. (See 1,527,395.)

1,591,401. (See 1,527,509.)

1,593,302, E. B. Hiatt, Basket liner; 1,603,693, same, Ring packing lid, D. C., S. D. N. Y., Doc. E 40/18, *Carpenter-Hiatt Sales Co.* v. *F. A. Read, Inc.* Patent 1,593,302 held valid and infringed, bill dismissed as to 1,603,693, Sept. 28, 1928.

1,602,114. (See 1,523,964.)

1,603,073. (See 1,523,964.)

1,603,207, T. Huston, Paper bag and seal, filed Sept. 25, 1928, D. C., N. D. Tex. (Fort Worth), Doc. E 555, *T. Huston Peanut Co.* v. *E. T. Keel.*

1,603,693. (See 1,593,302.)

1,607,086, H. B. Kinnear, Alloy steel and method of producing same, filed Aug. 20, 1928, D. C., E. D. Pa., Doc. 4595, *The Marion Steam Shovel Co.* v. *Birdsboro Steel Foundry & Machine Co.*

1,611,466, Lewis & Murray, Steaming tube for hair waving, appeal filed Sept. 25, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8345, *The S. Le Mur Co.* v. *W. G. Shelton Co.*

1,622,846. (See 1,395,362.)

1,622,994, H. Culp, Steamboat construction, filed Sept. 26, 1928, D. C., N. D. Ohio, E. Div., Doc. 2622, *H. Culp* v. *The Marquette & Bessemer Dock & Navigation Co. et al.*

1,634,790, Minaeff & Sachs, Art of mothproofing; 1,634,794, same, Mothproofed article; 1,634,791, M. G. Minaeff, Mothproofing composition, filed July 24, 1928, D. C., E. D. Pa., Doc. 4578, *The Larvex Corp.* v. *Tinolen Co. of America, Inc., et al.*

1,634,791. (See 1,634,790.)

1,634,794. (See 1,634,790.)

1,640,262, A. Migliaccio, Electrical flag, filed Sept. 22, 1928, D. C., S. D. N. Y., Doc. E 46/342, *A. Migliaccio* v. *Societa San Gennaro et al.*

1,647,046, W. G. Kendall, Vanity case and ejector therefor, filed Sept. 22, 1928, D. C., S. D. N. Y., Doc. E 46/341, *W. G. Kendall* v. *H. Rubinstein.*

1,649,310, E. A. Joline, Flexible shaft; 1,671,951, R. C. Angell, Strand twisting and coiling mechanism, filed Sept. 18, 1928, D. C. Del., Doc. E 693, *The S. S. White Dental Mfg. Co.* v. *General Motors Corp.*

1,651,193, A. R. Chisholm, Vanity case, filed Sept. 28, 1928, D. C., S. D. N. Y., Doc. E 46/363, *A. R. Chisholm* v. *C. W. McCutchen & Co., Inc.*

1,666,577. (See 1,001,887.)

1,668,490, C. S. Caesar, Heating apparatus for automotive vehicles, filed Aug. 23, 1928, D. C. Minn., 4th Div., Doc. E 1037, *Tropic-Aire, Inc.*, v. *F. H. Jumper et al.*

1,671,951. (See 1,649,310.)

1,673,727, Des. 74,248, L. V. Aronson, Cigar lighter, filed Aug. 24, 1928, D. C., E. D. Pa., Doc. 4601, *Art Metal Works, Inc.*, v. *C. F. Rumpp & Sons, Inc.*

1,684,801, L. A. Nemcovsky, Typewriting machine, filed Sept. 21, 1928, D. C., S. D. N. Y., Doc. E 46/340, *Sun Typewriter Co.* v. *L. C. Smith et al.*

Re. 14,667. (See 1,307,734.)

Re. 15,129, 1,432,259, J. J. Richards, Reserve provider for fuel tanks, filed Oct. 2, 1928, D. C., S. D. N. Y., Doc. E 46/393, *T. A. Kelly* v. *Pierce-Arrow Sales Corp.*

Re. 15,278. (See 1,456,528.)

Des. 48,248, W. E. Hosch, Housing for measuring and computing machines; 1,434,998, same, Cloth measuring and computing machine; 1,463,589, J. T. Pedersen, Process of adjusting measuring machines; 1,418,162, same, Fabric-measuring chart and roller therefor, C. C. A., 8th Cir. (St. Louis), Doc. 7986, *Grand Rapids Show Case Co.* v. *Measure-graph Co.* Reversed Sept. 14, 1928.

Des. 67,018. (See 1,214,168.)

Des. 71,767, F. Schmidt, Goblets or the like, D. C., S. D. N. Y., Doc. E 46/80, *F. C. Reimer Co., Inc.*, v. *J. Hirsch et al (Hirsch-Malgood Co.).* Consent order of discontinuance Sept. 25, 1928.

Des. 72,681, I. Rosenblatt, Chandelier, filed Sept. 20, 1928, D. C., S. D. N. Y., Doc. E 46/328, *Globe Lighting Fixture Mfg. Co.* v. *Apex Chandelier Co., Inc., et al.*

Des. 74,248. (See 1,673,727.)

Des. 74,452, J. B. Salterini, Lamp finial; Des. 74,628, same, Bridge lamp, filed Sept. 28, 1928, D. C., S. D. N. Y., Doc. E 46/375, *J. B. Salaterini* v. *The Wrought Iron Craftsmen Co., Inc.*

Des. 74,628. (See Des. 74,452.)

Des. 75,959, J. D. Gaudio, Chandelier; Des. 76,125, same, Lighting-fixture arm; Des. 76,126, same, Lighting-fixture brace, filed Sept. 20, 1928, D. C., S. D. N. Y., Doc. E 46/327, *Modern Lighting Fixture Co., Inc.*, v. *Keystone Mfg. Corp.*

Des. 76,125. (See Des. 75,959.)

Des. 76,126. (See Des. 75,959.)

## Adjudicated Patents.

(D. C. Del.) Gibson patent, No. 1,166,758, for balancing heat input and output in automatic furnace regulation, claims 1 and 2 *Held* not infringed. *Gibson v. Smoot Engineering Corporation*, 28 F. (2d) 123.

(D. C. Del.) Gibson patent, No. 1,167,343, relating to automatic regulation in steam furnaces, claims 4–10, 11, 14, 15 *Held* not infringed and claims 1, 12, 13, 16 *Held* valid and infringed. *Id.*

(D. C. Del.) Herr patent, No. 1,375,250, for automatic stoker control for steam furnaces, claims 3, 4, 6, 7, 8, 9 *Held* invalid or, if valid, not infringed. *Id.*

(C. C. A. Mo.) Hennefer patent, No. 1,447,982, for improvements in stock-marking devices, *Held* valid. *Jensen-Salsbery Laboratories v. Salt Lake Stamp Co.*, 28 F. (2d) 90.

(D. C. Del.) Gibson patent, No. 1,522,877, relating to means for regulating pressure in automatic furnace regulation, claims 9–14, 16–19 *Held* valid and infringed. *Gibson v. Smoot Engineering Corporation*, 28 F. (2d) 123.

(D. C. Del.) Gibson patent No. 1,537,044, relating to automatic regulation in steam furnaces, claims 23, 27, 30, 38, 53 *Held* not infringed and claims 19, 22, 52, 56, 59 *Held* infringed. *Id.*

(D. C. Del.) Gibson patent, No. 1,582,648, concerning means for regulating pressure in automatic furnace regulation, claims 10–16 *Held* valid and infringed. *Id.*

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,452,214, F. H. Nicholson, Railway traffic controlling apparatus, decided October 1, 1928, claims 1, 2, 3, 4, 7, 8, 10, 12, 19, 24, 26, and 27.

Pat. 1,555,059, E. Jacobsen, Automatic telephone system, decided October 6, 1928, claim 3.

Pat. 1,625,593, L. H. Cross, Tire cover, decided October 6, 1928, claim 1.

Pat. 1,663,518, J. Ledwinka, Pressed-metal vehicle door, decided October 1, 1928, claim 9.

Pat. 1,663,521, J. Ledwinka, Pressed-metal vehicle door, decided October 1, 1928, claims 1 and 3.

A final decision in interference has been rendered against the following trade-mark:

T. M. 189,190, Bread, Union Baking Company, Incorporated, Vancouver, Wash. Registered September 16, 1924. Decided September 25, 1928.

## Disclaimers.

1,441,672.—*James R. Ellis*, Chevy Chase, D. C. REFRIGERATED CONTAINER. Patent dated January 9, 1923. Disclaimer filed October 28, 1928, by the assignee, *The Liquid Carbonic Corporation.*

Hereby disclaims the combination of elements recited in claim 1 of said Letters Patent except when used for the storing of ice cream, or the like, in the "can" and the dispensing of the same therefrom, to effect the maintaining of the ice cream in frozen condition and of more nearly uniform hardness throughout the body thereof than in the case of those refrigerating structures wherein the refrigerant surrounds the bottom of the can; and further disclaims the combinations of elements recited in claims 1, 7, 8, 9 and 10 except in a structure wherein the bottom of the refrigerant container is positioned a substantial distance above the bottom of the can and when the "refrigerant" used is, as described in the specification, of a character commonly used for the preservation of ice cream and of a temperature below that at which the mixed ingredients comprising ice cream, or the like, congeal.

1,504,693.—*Harvey B. Lindsay*, Oakland, Calif. REFRIGERATOR. Patent dated August 12, 1924. Disclaimer filed October 29, 1928, by the assignee, *Dry Zero Corporation.*

Hereby disclaims any combinations of the elements recited in the claims of said Letters Patent, except when combined with a can of the type illustrated such as is commonly employed for containing ice cream, or the like, said can being located within the "receptacle" and extending below the level of the "tank," and except when combined with a refrigerant (recited in certain of the claims as a cooling medium) located in the "tank" and, as described in the specification, of a character commonly used for the preservation of ice cream and of a temperature below that at which the mixed ingredients comprising ice cream, or the like, congeal.

## Notices of Cancellation.

U. S. PATENT OFFICE, *Washington, Oct. 19, 1928.*

*United States Compound Company, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of United States Compound Company, of 1436 Seneca St., Buffalo, N. Y., No. 89,162, dated November 12, 1912, and the notice of such proceeding sent by registered mail to the said United States Compound Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said United States Compound Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Washington, Oct. 19, 1928.*

*Murray Wire Co., its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Murray Wire Co., of Newark, N. J., No. 94,658, dated December 23, 1913, and the notice of such proceeding sent by registered mail to the said Murray Wire Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless the said Murray Wire Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. PATENT OFFICE, *Washington, Oct. 16, 1928.*

*The Cafico Chemical Company Inc., its assigns or legal representatives take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of The Cafico Chemical Company Inc., of 154 Pearl Street, Pittsburgh, Pa., No. 158,911, dated September 19, 1922, and the notice of such proceeding sent by registered mail to the said The Cafico Chemical Company Inc. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Cafico Chemical Company Inc., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 13, 1928.

[VOL. 376. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

**Raw or Partly-Prepared Materials.**

Ser. No. 272,405. ILLINOIS WESTERN COAL COMPANY, Chicago, Ill. Filed Sept. 14, 1928.

**MONO DOROTHY**

For Coal.
Claims use since July 1, 1928.

Ser. No. 272,653. THE GRIESS PFLEGER TANNING COMPANY, Cincinnati, Ohio. Filed Sept. 19, 1928.

**GP**

For Leather.
Claims use since on or about Apr. 7, 1924.

## CLASS 3.

**Baggage, Animal Equipments, Portfolios, and Pocketbooks.**

Ser. No. 272,180. THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis. Filed Sept. 10, 1928.



The trade-mark consists of a plurality of alternate red and yellow stripes extending about the bag intermediate the ends thereof. The representation of a bag as shown in the drawing is disclaimed.

For Small Hand Bags Such as Duffle Bags.
Claims use since Jan. 7, 1928.

## CLASS 4.

**Abrasive, Detergent, and Polishing Materials.**

Ser. No. 272,226. THE MENNEN COMPANY, Newark, N. J. Filed Sept. 11, 1928.

**MENTHOL-ICED**

No claim is made to the exclusive use of the word "Menthol" apart from the mark shown on the drawing.

For Shaving Cream for Preparing the Beard for Shaving.
Claims use since Aug. 30, 1928.

Ser. No. 272,289. ORANGE LABORATORIES, INC., Tampa, Fla. Filed Sept. 12, 1928.

**ORANGE**

The drawing is lined for orange.

For Top Dressing and Auto Top Weatherproofing, Automobile Cleaner, and Metal Polish.
Claims use since Aug. 26, 1927.

Ser. No. 272,742. ELVIN WHEELER, Atlanta, Ga. Filed Sept. 20, 1928.

**ELVIN**

For Razor-Strop Dressing.
Claims use since May 1, 1928.

## CLASS 5.

### Adhesives.

Ser. No. 270,801. PHOTOMATON OPERATING CORPORATION, New York, N. Y. Filed Aug. 9, 1928.

**PHOTOMATON**

For Adhesive Cement.
Claims use since July 15, 1928.

## CLASS 6.

### Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 249,044. JOHN A. COLLINS, doing business as The Collins Company, Newark and Dayton, Ohio. Filed May 16, 1927.



For Combination Powder Providing Scientific Protection Against Irritation and Body Odors by Perspiration or Otherwise.
Claims use since May 26, 1912.

Ser. No. 252,347. NIKETOL, INC., New York, N. Y. Filed July 20, 1927.

*Niketol*

For Anæsthetics Applied Externally and in the Form of Injections.
Claims use since June 5, 1927.

Ser. No. 254,916. KEYSTONE LABORATORIES, Memphis, Tenn. Filed Sept. 19, 1927.

*Poreen*

For Hairdressing and Hair Straightener.
Claims use since June 15, 1923.

Ser. No. 255,652. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Leverkusen, Germany. Filed Oct. 5, 1927.

**CARBOSERIN**

For Solid Absorptive Materials of the Activated Carbon Type for Chemical and Medicinal Purposes.
Claims use since about June, 1927.

Ser. No. 256,890. DELETTREZ INC., New York, N. Y. Filed Oct. 21, 1927.




For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Aspirin, Bay Rum, Perfumes, and Toilet Waters.
Claims use since Oct. 3, 1927.

Ser. No. 256,481. THE PACKER MANUFACTURING COMPANY, INC., New York, N. Y. Filed Oct. 22, 1927.




No claim is made to the exclusive use of the words "Olive Oil Shampoo" apart from the mark shown in the drawing.
For Olive-Oil Shampoo.
Claims use since January, 1927.





Ser. No. 257,614. T. FLOYD BROWN, Los Angeles, Calif. Filed Nov. 16, 1927.




For Preparation for Neutralising the Effects of Actinic Ray Burns upon the Skin and Body.
Claims use since Jan. 1, 1925.

Ser. No. 260,178. WALTER B. JOHNSON, doing business as The Sib Company, Boston, Mass. Filed Jan. 16, 1928.




For Bath Salts.
Claims use since on or about Jan. 5, 1928.

Ser. No. 261,000. JACOB H. WIPF, Freeman, S. Dak. Filed Feb. 2, 1928.




For Preparation for the Treatment of Pyorrhea.
Claims use since about Mar. 2, 1926.

Ser. No. 262,205. CHEMISCHE FABRIK HELFENBERG A. G. VORM. EUGEN DIETERICH, Helfenberg, near Dresden, Germany. Filed Feb. 25, 1928.

**Valofin**

For Medicaments—Namely, Preparations for the Treatment of Stomach and Nerve Diseases.
Claims use since about October, 1925.

Ser. No. 262,395. EST. HENRY C. MINER, INC., New York, N. Y. Filed Feb. 29, 1928.




Applicant disclaims the use of the words "Liquid Enamel" apart from the mark as shown.
For Chemical Preparations Suitable for Whitening the Face, Neck, and Arms.
Claims use since 1903.

Ser. No. 262,454. M. K. GOETZ BREWING CO., St. Joseph, Mo. Filed Mar. 1, 1928.

*"Country Club"*

For Malt Tonic Especially Adapted for the Weak, Sick, and Convalescent.
Claims use since Feb. 17, 1928.

Ser. No. 262,742. MCKESSON & ROBBINS, INCORPORATED, Bridgeport, Conn. Filed Mar. 7, 1928.

**MUSTARDINE**

For Ointment for Pains, Inflammation, and Soreness of All Kinds.
Claims use since Nov. 18, 1927.

Ser. No. 263,556. CHARLES DANIEL MURRAY, doing business as Murray's Superior Products Co., Chicago, Ill. Filed Mar. 21, 1928.




The words "Koko-Olyve" appearing on the drawing are disclaimed.
For Shampoos.
Claims use since Aug. 15, 1927.

Ser. No. 263,694. DEVEL'S CHEMICAL CO., INC., Sylvester, Ga. Filed Mar. 24, 1928.



**DEVEL'S**

The drawing is lined for the color red.
For Medicine for Colds, Coughs, Flu, Grippe, Sore Throat, Bronchitis, Headaches, and Pneumonia.
Claims use since on or about Mar. 31, 1926.

Ser. No. 264,053. FRANK X. SCHRAM, Chicago, Ill. Filed Mar. 30, 1928.



For Medicaments for Application to the Feet—Namely, an Analgesic Preparation for the Relief of Pain Resulting from Strains; a Preparation for the Treatment of Verruca and Palpilloma, and a Preparation for the Treatment of Scalding, Fissures, and Itching.
Claims use since Dec. 15, 1927.

Ser. No. 264,215. ELIE TARTE, Verdun, Canada. Filed Mar. 31, 1928.

**ONGUENT TARTE**

*Elie Tarte*

No claim is made to the word "Onguent" aside from the mark shown. The mark "Elie Tarte" is a facsimile of applicant's signature.
For Ointments for Medicinal Purposes, the Ointment Being for Piles.
Claims use since Jan. 8, 1923.

Ser. No. 265,019. SHINN AND IRBY, Denver, Colo. Filed Apr. 17, 1928.

**KLEAN-LAWN**

For Preparation for Killing Dandelions.
Claims use since August, 1927.

Ser. No. 265,375. FONDAOL LABORATORIES COMPANY, Independence, Mo. Filed Apr. 25, 1928.



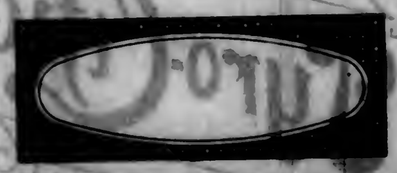
For Medicinal Ointment Indicated in the Following Ailments: Coughs, Chest Colds, Sore Throat, Spasmodic Croup, Asthma, Hay Fever, Influenza, and Pneumonia, Chilblains, Chapped Hands; Insect Bites, Neuralgic Pains, Poison Ivy, Prickly Heat, Sore and Tender Feet.
Claims use since Feb. 1, 1928.

Ser. No. 267,566. THE PEP-STEPS CO., Montgomery, Ala. Filed June 6, 1928.

**12**
**Pep-Steps**

For Laxative Medicine in the Form of Tablets.
Claims use since Mar. 1, 1928.

Ser. No. 267,655. HEALTH PRODUCTS CORPORATION, Newark, N. J. Filed June 7, 1928.



For Medicated Chewing Tablets for Use as a Laxative and as an Analgesic.
Claims use since April, 1928, on the analgesic tablet and since December, 1922, on the laxative chewing tablet.



Ser. No. 268,304. NITRATE AGENCIES COMPANY, New York, N. Y. Filed June 19, 1928.

**KALIBOR**

For Preparation for Use as an Insect Exterminator.
Claims use since Jan. 28, 1927.

Ser. No. 268,305. NITRATE AGENCIES COMPANY, New York, N. Y. Filed June 19, 1928.

**SULPHUR SMOKE**

The word "Sulphur" is hereby disclaimed apart from the trade-mark as shown.
For Preparation for Use as an Insect Exterminator.
Claims use since Sept. 3, 1919.

Ser. No. 268,742. MINERALOXIDE CORPORATION, Daytona Beach, Fla. Filed June 27, 1928.

*Direct from Nature*

**MINERALOX**

No claim is made to the exclusive use of the words "Direct from Nature" apart from the other features shown in the drawing.
For Ferruginous Tonic—viz, for the Treatment of Indigestion, Nervousness, Rheumatism, Neuritis; Kidney, Bladder, and Other Organic Troubles; Bleeding, Cuts, Sores, Burns, Boils, Ulcers, Sunburn, Eczema, and Insect Bites.
Claims use since June 1, 1927.

Ser. No. 269,074. ANTOINETTE DONNELLY, LTD., Norwich, N. Y. Filed July 5, 1928.

**LOVELY**

For Skin Lotions, Hair Shampoos, Preparation for the Treatment of the Hair and Scalp, Complexion Creams, Cream for Cleansing the Skin, Massage Cream for Removing Wrinkles and Developing Wasted Tissues, Preparation for Coloring and Treating the Eyelashes and Eyebrows.
Claims use since 1920.

Ser. No. 269,196. VITO MIRENDA, Corona, N. Y. Filed July 6, 1928.

**MIRAGO**

For Preparation for the Treatment of Rheumatism and Sciatica.
Claims use since June 30, 1928.

Ser. No. 269,578. HOMER L. COMER, doing business as The Homer Comer Company, Marion, Ohio. Filed July 14, 1928.

**WAVETOSTA**

For Preparation for Use in the Treatment of the Hair.
Claims use since June 1, 1928.

Ser. No. 269,654. MANUEL GREY, Mexico, Mexico. Filed July 16, 1928.

***CARBISMUTOL***

For Medicinal Preparation Indicated in the Treatment of Syphilis.
Claims use since Feb. 25, 1928.

Ser. No. 269,675. PAUL MANNING, doing business as The Manning Company, West Springfield, Mass. Filed July 16, 1928.

***ISTAR***

For Perfumes and Deodorants.
Claims use since Jan. 2, 1928.

Ser. No. 270,532. WM. BOWDEN & COMPANY, Houston, Tex. Filed Aug. 3, 1928.




For Perfumes.
Claims use since Apr. 17, 1918.

Ser. No. 270,674. SOL HIRSCH, doing business as Dr. Hirsch's Laboratories, New York, N. Y. Filed Aug. 6, 1928.




No claim is made to the two concentric circles surrounding the trade-mark.

For Therapeutic Preparations for Treating Dandruff and Itching Scalps.

Claims use since July 26, 1928.

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Ser. No. 270,784. SOCIETE ANONYME: PARFUMERIE VIOLET, Paris, France. Filed Aug. 8, 1928.

Pour rêver

For Perfumery, Toilet Waters, Eau de Cologne, Lotions for the Skin and Hair, Creams for the Face, Dental Water and Pastes, Rice Powders, Compact Powders, Talcum Powders, Sachet Powders, Crystallized and Liquid Brilliantines, Preparations for Slicking the Hair, Lip Sticks, Eye Pencils, Rouge, and Products for the Finger Nails and the Hands, Such as Varnish for the Nails, Cream for the Hands, and Brilliantine, Petroleum Jelly Used for Manicuring Purposes.

Claims use since Dec. 15, 1926.

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Ser. No. 270,785. SOCIETE ANONYME: PARFUMERIE VIOLET, Paris, France. Filed Aug. 8, 1928.

ÉTERNELLE CHANSON

For Perfumery, Toilet Waters, Eau de Cologne, Lotions for the Skin and Hair, Creams for the Face, Dental Water and Pastes, Rice Powders, Compact Powders, Talcum Powders, Sachet Powders, Crystallized and Liquid Brilliantines, Preparations for Slicking the Hair, Lip Sticks, Eye Pencils, Rouge, aand Products for the Finger Nails and the Hands, Such as Varnish for the Nails, Cream for the Hands, and Brilliantine, Petroleum Jelly Used for Manicuring Purposes.

Claims use since Apr. 20, 1928.

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Ser. No. 270,965. THOMAS EARL GOYER, doing business as Pennebaker Chemical Co., Jackson, Tenn. Filed Aug. 13, 1928.

NEUROSOL

For Medicine for Headache, Neuralgia, Rheumatism, Neuritis, Colds, La Grippe, and for the Nervous System.

Claims use since July 3, 1928.

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Ser. No. 271,186. INTERNATIONAL OXYGEN COMPANY, Newark, N. J. Filed Aug. 17, 1928.




Exclusive right to the words "System," "Industrial Gases," and "Cylinder Contents" is disclaimed apart from the mark as shown on the drawing.

For Hydrogen, Oxygen, Nitrogen, Compressed Air, and Acetylene.

Claims use since June 1, 1928.

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Ser. No. 271,293. COMPAGNIE PARENTO, INC., Croton-on-the-Hudson, N. Y. Filed Aug. 20, 1928.

COMPAGNIE PARENTO

For Essential Oils, Soluble Fluid Resins, Oleo Resins, Terpeneless Oils, Pure Natural Flower Oils, Aromatic Perfume Chemicals, Synthetic Perfume Oils, Savon Oils, Perfumers' Colors, Certified Food Colors, Combination of Perfume Oils and Colors for Bath Salts and Similar Toilet Preparations, Perfume Oils Suitable for Perfuming Creams, Face Powders, Talcum Powders, and Similar Toilet Preparations, Fixative Preparations for Perfumes, Toilet Waters, and Similar Toilet Preparations and Chemical Preparations Suitable for Increasing the Speed of Filtering and Decreasing the Evaporation of Oils in Perfumes, Toilet Waters, and Similar Toilet Preparations.

Claims use since Feb. 24, 1920.



Ser. No. 271,455. PAUL REKOSH, Rosemont, W. Va. Filed Aug. 23, 1928.



Paul Rekosh

The picture is a portrait of applicant and the signature an autograph of applicant.

For Palliative for Constipation, Indigestion, Diarrhea, Pain in Stomach, and Colds.

Claims use since June 15, 1928.

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Ser. No. 271,496. MUELLER BOILER COMPOUND & CHEMICAL Co., Minneapolis, Minn. Filed Aug. 24, 1928.

FERROLAC

For Compound for the Internal Treatment of Pipe Lines, Heaters, and Boilers by Injecting the Same Therein to Prevent Corrosion, Dissolve Scale, Soften Water, Prevent Leakage, and Seal Up Leaks.

Claims use since Nov. 1, 1927.

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Ser. No. 271,559. THE NEWPORT COMPANY, Carrollville, Wis. Filed Aug. 25, 1928.

CELANTHRENE

For Dyes, Dyestuffs, and Colors.

Claims use since June 6, 1928.

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Ser. No. 271,668. JOHN TRUNDS, Newberg, Oreg. Filed Aug. 28, 1928.

KLEARBONE

For Salve for the Treatment of Infected Bones.

Claims use since Aug. 18, 1928.

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Ser. No. 271,675. BARBARA GOULD, LTD., New York, N. Y. Filed Aug. 29, 1928.

*The Art of Creative Beauty*

For Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Compacts, Face Bleaches, Face Packs, Eyebrow and Eyelash Grower, Eyedrops, Hand Lotions, Skin Lotions, Face Powders, Talcum Powders, Sachets, Hair Salves, Hair Elixirs, Hair Tonics, Hair Oils, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lip Sticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Tooth Pastes, Nail Powders, Nail Creams, Nail Bleaches, Witch-Hazel, Peroxide, Petroleum Jellies, Witch-Hazel Salves, Camphor Creams, Foot Powders, Deodorants, Disinfectants, Bay Rum, Perfumes, and Toilet Waters.

Claims use since Apr. 20, 1928.

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Ser. No. 271,771. ROBERT ENTERPRISES, INC., New York, N. Y. Filed Aug. 30, 1928.




No claim is made to the exclusive use of the word "Délicat" apart from the mark shown in the drawing. The drawing is shaded to indicate the color gold.

For Bath Salts, Dusting Powders, Perfumes.

Claims use since October, 1924.

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Ser. No. 271,804. GRIOT COMPANY, INC., New York, N. Y. Filed Aug. 31, 1928.

E C L I P S E

For Dyestuffs.

Claims use since 1901.

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Ser. No. 271,808. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Aug. 31, 1928.



For Chemicals for Protection Against Moths in All Kinds of Textiles.

Claims use since about Jan. 1, 1923.

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Ser. No. 271,816. GEORGE H. NEALE, doing business as Tickle-Tab Company, Elkins, W. Va. Filed Aug. 31, 1928.

TICKLE-TABS

For Medicinal Tablets for Use in Relieving Throat Irritations.

Claims use since Dec. 15, 1926.

Ser. No. 271,830. W. SHIRAI, doing business as Shirai & Co., San Francisco, Calif. Filed Aug. 31, 1928.

WS

For Medicine for Dyspepsia, Medicine for Diarrhœa, Medicine for the Regulation of Menstruation, Medicine for Gonorrhœa, Medicine for Skin Diseases, and Medicine for Morning Disease, and Help for Easy Delivery.
Claims use since May 1, 1928.

Ser. No. 271,888. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed Sept. 4, 1928.

RED SEAL

The mark comprises the words "Red Seal" in association with the wafer-like replica of a red seal arranged thereunderneath.
For Lye and Chlorinated Lime.
Claims use since Jan. 1, 1883.

Ser. No. 271,910. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y. Filed Sept. 4, 1928. Under 10-year proviso.

ALPINE

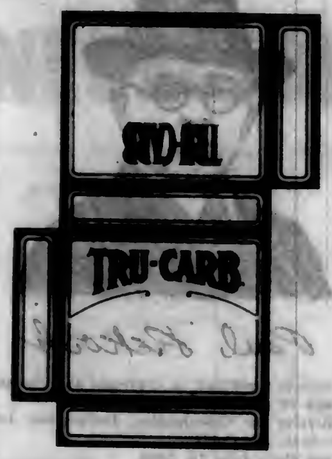
For Laxative Preparations.
Claims use since 1875.

Ser. No. 271,912. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y. Filed Sept. 4, 1928. Under 10-year proviso.

HAMBURG

For Laxative Preparations.
Claims use since 1888.

Ser. No. 272,020. BLACKSTONE MANUFACTURING COMPANY, doing business as Tru-Lax Manufacturing Company, Newark, N. J. Filed Sept. 7, 1928.




Applicant disclaims the representation of the carton shown in the drawing.
For Chewing Digestive.
Claims use since Apr. 12, 1928.

Ser. No. 272,102. ALFRED R. HATHAWAY, doing business as Stat-El-Lyte Laboratories, Emeryville, Calif. Filed Sept. 8, 1928.

STAT-EL-LYTE

For Storage-Battery Preserving Compound.
Claims use since December, 1927.

Ser. No. 272,133. BYK-GULDENWERKE CHEMISCHE FABRIK AKTIENGESELLSCHAFT, Berlin, Germany. Filed Sept. 10, 1928.

Metaphyllin

For Diuretic Preparations.
Claims use since Sept. 4, 1928.

Ser. No. 272,136. CHARLES I. CANTOR, doing business as Decoltin Company, New York, N. Y. Filed Sept. 10, 1928.



DECOLTIN

For Depilatory for the Removal of Superfluous and Undesirable Hair.
Claims use since May 15, 1928.



Ser. No. 272,164. MADELON MODES, INC., New York, N. Y. Filed Sept. 10, 1928.

Madelon

For Perfumes and Toilet Water.
Claims use since July 20, 1928.

Ser. No. 272,169. JOHN W. MCCONNELL, Augusta, Kans. Filed Sept. 10, 1928.

BYE-BYE MANGE



The portrait shown is that of Gertrude Bisher. No rights are claimed for the word "Mange" apart from the mark as shown in the drawing.
For Preparation for Treating the Scalp in Humans and Also for Treating Mange in Animals.
Claims use since Aug. 29, 1928.

Ser. No. 272,170. JOHN W. MCCONNELL, Augusta, Kans. Filed Sept. 10, 1928.

BYE-BYE DANDRUFF



The portrait shown is that of Gertrude Bisher. No registration rights are claimed for the word "Dandruff" apart from the mark as shown in the drawing.
For Preparation for Cleaning the Scalp and Promoting the Growth of the Hair and Also for Treating Dandruff.
Claims use since Aug. 29, 1928.

Ser. No. 272,174. MENLEY & JAMES, LIMITED, NEW YORK, New York, N. Y. Filed Sept. 10, 1928.

ALBUTESTA

For Solution to be Used as a Test for Urine.
Claims use since Aug. 14, 1928.

Ser. No. 272,308. B. R. CO., Garfield, N. J. Filed Sept. 12, 1928.

B. R. CO.



The pictures are portraits of applicants.
For Chemical Spot, Stain, and Scorch Remover.
Claims use since Aug. 6, 1928.

Ser. No. 272,411. LES ETABLISSEMENTS ANTOINE CHIRIS, COMPAGNIE DES PRODUITS AROMATIQUES, CHIMIQUES ET MEDICINAUX, Paris, France. Filed Sept. 14, 1928.

BAUMAROME

For Essential Oils for the Production of Perfumes and Flavoring Materials and for Industrial and Technical Use.
Claims use since July, 1927.

Ser. No. 272,412. LES GRANDS PARFUMS DE FRANCE, INC., New York, N. Y. Filed Sept. 14, 1928.

Gallia

For Perfumes, Toilet Waters, Lip Sticks, Rouge, Face Cream, Massage Cream, Cold Cream, Vanishing Cream, Talcum Powder, Face Powder, Compact Powder Refills, Beauty Clay, Bay Rum, Hair Tonic, Shampoos, Nail Polish in Cake or Liquid Form, Hand Lotions, and Depilatories.
Claims use since July 14, 1928.

Ser. No. 272,431. ANNA REITER, Canton, Ohio. Filed Sept. 14, 1928.

REITER'S SALVE

The words "Reiter's Salve" are disclaimed apart from the mark shown.
For Salve for Boils, Burns, Cuts, Piles, and Open Sores.
Claims use since Sept. 5, 1928.

Ser. No. 272,448. LILLIAN PASSWATERS, Wilmington, Del. Filed Sept. 12, 1928.

Wildcat Liniment

No claim is made to the word "Liniment" apart from the mark shown.
For Liniment for the Relief of Pain, Rheumatic Pains, Headaches, Toothache, Neuralgia Pains, Pleurisy, Sore Throat, Bruises, Sprains, Bites, and Stings of Poisonous Insects, and Inflammation.
Claims use since Aug. 5, 1928.

Ser. No. 272,511. HENRY RABBES, Washington, D. C. Filed Sept. 15, 1928.

**FIGULATORS**

For Laxative Preparation.
Claims use since Aug. 1, 1927.

Ser. No. 272,648. PAUL JAMES DUNCAN, INC., New York, N. Y. Filed Sept. 19, 1928.

**MINERIDE**

For Ointment for the Treatment of Rheumatism.
Claims use since Aug. 3, 1928.

Ser. No. 272,717. THE INTERNATIONAL NICKEL COMPANY, New York, N. Y. Filed Sept. 20, 1928.

**INCO**

For Green Nickel Oxide and Black Nickel Oxide.
Claims use since March, 1923.

Ser. No. 272,724. PHILIP H. MAGNER, doing business as The Algecin Co., Buffalo, N. Y. Filed Sept. 20, 1928.

**ALGECIN**

For Medical Preparation to be Used in the Treatment of Headaches, Neuralgia, Earaches, Toothaches, Colds, La Grippe, Rheumatism and Periodic Pains.
Claims use since Aug. 1, 1927.

Ser. No. 272,725. PHILIP H. MAGNER, doing business as The Algecin Co., Buffalo, N. Y. Filed Sept. 20, 1928.

ALGECIN

For Medical Preparation to be Used in the Treatment of Headaches, Neuralgia, Earaches, Toothaches, Colds, La Grippe, Rheumatism and Periodic Pains.
Claims use since Aug. 1, 1928.

Ser. No. 272,736. WILLIAM A. RIGNEY, Newark, N. J. Filed Sept. 20, 1928.

**BON-TONE**

For Medicinal Compounds for Use as a Tonic for Disorders of the Stomach, Liver, Kidneys, and Bowels.
Claims use since May 1, 1926.

Ser. No. 273,194. P. LUCIANO & SONS, Newark, N. J. Filed Oct. 1, 1928.

SPANISH ROSE



The picture is fanciful.
For Hair Tonic.
Claims use since Dec. 18, 1927.

Ser. No. 273,621. NOVOSOL CHEMICAL COMPANY, New York, N. Y. Filed Oct. 10, 1928.

NOVOSOL

For Intravenous Solutions for the Treatment of Diseases of the Blood, Alimentary Tract, Skin, Lungs, Heart, Nerves, Bladder, Muscles, Arteries, Kidneys, Liver, Testicles, and Other Glandular Diseases.
Claims use since June, 1928.



## CLASS 7.

### Cordage.

Ser. No. 270,352. SAMSON CORDAGE WORKS, Boston, Mass. Filed July 30, 1928.

NASHOBA



For Cords, Lines, Twines, and Ropes.
Claims use since Dec. 29, 1902.

Ser. No. 271,589. JOHN G. BARNETT CO., INC., Portland, Oreg. Filed Aug. 27, 1928.

WOLVERINE

For Wire Rope and Manila Rope.
Claims use since July 21, 1928.

Ser. No. 276,104. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill. Filed Sept. 28, 1928.

**McCORMICK-DEERING**

Applicant is the owner of registrations No. 95,764 for McCormick; No. 100,978 for Deering; No. 106,978 for McCormick; No. 106,974 for Deering; and No. 152,438 for McCormick, effected on the ground of actual and exclusive use by the applicant for 10 years next preceding Feb. 20, 1905.
For Twine.
Claims use since Sept. 13, 1927.

## CLASS 9.

### Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 273,402. ILLINOIS POWDER MFG. CO., St. Louis, Mo. Filed Oct. 5, 1928.

**PETROGEL**

For Dynamite.
Claims use since Aug. 24, 1928.



Ser. No. 273,535. AMTORG TRADING CORPORATION, New York, N. Y. Filed Oct. 9, 1928.

TEMPLEVANE

For Matches.
Claims use since about Aug. 1, 1928.

## CLASS 11.

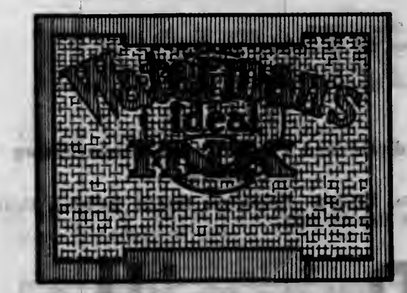
### Inks and Inking Materials.

Ser. No. 268,194. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 16, 1928.



The drawing is lined to show the colors yellow, red, green, and blue, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark as shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

Ser. No. 268,196. L. E. WATERMAN COMPANY, New York, N. Y. Filed June 16, 1928.



The drawing is lined to show the colors yellow, green, and red, which are claimed as features of the mark. No claim is made to the exclusive use of the word "Ink" apart from the mark shown on the drawing.
For Writing Inks.
Claims use since May 1, 1928.

## CLASS 12.

### Construction Materials.

Ser. No. 272,120. AMERICAN TAR PRODUCTS COMPANY, Pittsburgh, Pa. Filed Sept. 10, 1928.



For Roofing and Paving Materials Made of or Including Tar and Pitch.
Claims use since Apr. 20, 1915.

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Ser. No. 272,371. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Sept. 13, 1928.

COP-R-LOY

For Sheet-Steel Roofing.
Claims use since July 25, 1928.

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Ser. No. 272,619. WILLIAM H. LUTTON COMPANY, Jersey City, N. J. Filed Sept. 18, 1928.

SOLAR

For Greenhouses.
Claims use since Sept. 10, 1928.

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## CLASS 13.

### Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 267,126. CHARLOTTE ISAACS, Berkeley, Calif. Filed May 28, 1928.

Priscilla

For Wall Hook Racks for Holding Kitchen Utensils.
Claims use since about Feb. 15, 1928.

Ser. No. 270,226. FRANK J. BENTZ, doing business as Fixzit Company, Miami, Fla. Filed July 27, 1928.




No claim is made to the words "Plumbing System" apart from the mark shown in the drawing.
For Flush Valves, Float Balls, Faucet Handles, Closet-Bowl Tail Pieces, Closet Seats, Supply Pipes, Water-Closet Siphon Wash Downs, Shower Heads, Shower Rods, China Valve Handles, Faucets, Waste and Overflow for Tubs, Portable Showers, Pop-Up Lavatory Wastes, Sink Traps, Drain Boards, Built-In Soap Dishes, Towel Racks, Glass Holders and Toilet-Paper Holders, Brass Valves, Lavatory Traps and Pipe Fittings.
Claims use since January, 1928.

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Ser. No. 273,046. WILLIAM L. DEMINO, Salem, Ohio. Filed Sept. 27, 1928.

SANAB

For Shower Baths and Parts Thereof.
Claims use since Aug. 21, 1928.

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Ser. No. 273,367. EDWARD P. GROS, Canajoharie, N. Y. Filed Oct. 4, 1928.

SpeeDrip

For Coffee Percolators.
Claims use since Aug. 1, 1928.

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## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 273,191. JOSEPH JACKMAN & CO. LIMITED, Sheffield, England. Filed Oct. 1, 1928.

JACKMANIZED

For Steel and Iron in Bars, Rods, Sheets, Rails, Castings, Forgings, and Stampings; High-Speed Steel, Cast Steel, and Silver Steel.
Claims use since July 7, 1906.



## CLASS 15.

### Oils and Greases.

Ser. No. 264,392. THE SOUTHWEST SPECIALTIES COMPANY, Wichita, Kans. Filed Apr. 5, 1928.




No claim is made to the words "Trade-Mark Registered" nor to the words "Fine Parts" and "Penetrating Oil" and "Not Genuine without the Signature" apart from the mark shown in the drawing. The signature appearing in the lower panel is that of the president of the corporation, H. W. Eastman.
For Penetrating Oils.
Claims use since Feb. 1, 1928.

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Ser. No. 270,745. HOWARD CRANFILL CO., South Bend, Ind. Filed Aug. 8, 1928.

"Geltspar"

For Lubricating Oils and Lubricating Greases.
Claims use since July 9, 1928.

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Ser. No. 272,156. THE GRAPHITE OIL PRODUCTS CORPORATION, Cleveland, Ohio. Filed Sept. 10, 1928.

LUBRI-GRAPH

For Lubricating Oils.
Claims use since Aug. 20, 1928.

Ser. No. 272,452. ANDERSON-PRICHARD OIL CORPORATION, Oklahoma City, Okla. Filed Sept. 15, 1928.

DRYOLENE

For Naphtha Refined for Industrial Use.
Claims use since January, 1921.

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## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 272,218. HILL-HUBBELL & COMPANY, San Francisco, Calif. Filed Sept. 11, 1928.

GRAPH-O-LIGHT

For Graphite Base Paint for Painting Steel Surfaces.
Claims use since Feb. 1, 1923.

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Ser. No. 272,219. HILL-HUBBELL & COMPANY, San Francisco, Calif. Filed Sept. 11, 1928.

*VESTA-LIGHT*

For Paint Enamel.
Claims use since Sept. 9, 1928.

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Ser. No. 272,220. THE INTERNATIONAL PAINT & COMPOSITIONS COMPANY, LIMITED, London, England. Filed Sept. 11, 1928.

GALVEX

For Ready-Mixed Paints.
Claims use since July, 1927.

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Ser. No. 272,335. JOHN LUCAS & CO., INC., Philadelphia, Pa. Filed Sept. 13, 1928.

LUCOKWIK

For Four-Hour-Drying Household Enamel.
Claims use since Sept. 1, 1928.

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Ser. No. 272,538. FRANK BOWNES COMPANY, INC., Lynn, Mass. Filed Sept. 17, 1928.

MODENE

For Paint Enamels.
Claims use since October, 1927.

## CLASS 17.

### Tobacco Products.

Ser. No. 271,576. JOHN SINCLAIR LIMITED, Newcastle-on-Tyne, England. Filed Aug. 25, 1928.

QUINNEYS'

The word "Quinneys'" is disclaimed apart from the mark shown in the drawing.
For Smoking Tobacco, Cigarettes, and Cigars.
Claims use since Dec. 3, 1919.

## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 265,622. CURTISS AEROPLANE AND MOTOR COMPANY, INC., Buffalo and Garden City, N. Y. Filed Apr. 30, 1928.

FLEDGLING

For Aeroplanes.
Claims use since Jan. 1, 1928.

Ser. No. 272,137. CHRYSLER CORPORATION, Detroit, Mich. Filed Sept. 10, 1928.



For Automobiles and Their Structural Parts.
Claims use since July 1, 1928.

Ser. No. 273,119. THE STUDEBAKER CORPORATION, South Bend, Ind. Filed Sept. 28, 1928.

RICHELIEU

For Automobiles.
Claims use since Sept. 24, 1928.

## CLASS 20.

### Linoleum and Oiled Cloth.

Ser. No. 273,559. THE PARAFFINE COMPANIES, INC., San Francisco, Calif. Filed Oct. 9, 1928.

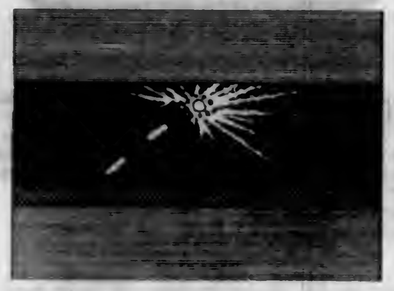
PABCO

For Prepared Floor Coverings Comprising a Body of Fibrous Material Saturated with Bituminous or Asphaltic Material and Having a Painted or Printed Surface.
Claims use since 1917.

## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 181,169. ROBERT BOSCH AKTIENGESELLSCHAFT, Stuttgart, Germany. Filed May 26, 1923.



Applicant disclaims exclusive right to the representation of a spark plug apart from the mark shown in the drawing as a trade-mark for spark plugs, but does not disclaim the exclusive right to the representation of a spark plug as a trade-mark for any other goods herein. The drawing is lined to indicate that the band through the middle of the rectangular figure is of orange color while the bands on either side thereof are blue, as are also the letters of the word "Bosch" and the outline of the rectangular figure immediately surrounding the same.
For Magneto-Electric Ignition Apparatus and Other Electrical Ignition Devices for Internal-Combustion Engines and Parts Thereof—Namely, Induction Coils, Condensers, Timers, Shaft Couplings, Distributors, Interrupters, Spark Plugs, Spark-Plug Protectors, Spark-Plug Cleaners, Terminals, Cable Lugs, Spark Intensifiers; Dynamos, Electromotors, Electric Starting Apparatus for Internal-Combustion Engines, Electric Headlights, and Other Electric Lamps and Lanterns Connected with the Electric System of Vehicles and Cycles; Flash Lights for Motor Boats, Electric Pocket Lamps; Electric Bulbs, Vacuum Tubes, Primary Batteries, Storage Batteries; Electric Transformers, Switches, Switch Boxes, Regulators, Cables, Safety Fuses, Junction Boxes; Electric Advertising Signs, Electric Horns, Control Devices for Electric Starting and Lighting Systems of Vehicles and Cycles, Electric Cooking Devices; Electric Heating Devices for Motor Cars, Radiators, Induction Pipes, Electric Foot-Warming Devices, Electrically-Heated Gloves, Electrically-Heated Wind-Screen Cleaners; Electric Lighters for Gas, and Electric Cigar Lighters.
Claims use since Aug. 15, 1922.



Ser. No. 253,132. H. O. BOEHME, INC., New York, N. Y. Filed Aug. 6, 1927.

HOB

For Telegraphic and Radiotelephonic Equipment Consisting of Assembled Audiofrequency Amplifying Units, Antenna Switches, Automatic Controls for Motors, Antinoise Sets, Adjustable Condensers, Relays, Compensation Contactors, Current-Regulating Units, Carbon Microphones, Condenser Microphones, Choke Coils, Chopper Discs, Battery Switches, Beat Oscillators, Coupling Units, Circuit Panels, Combined Mechanical and Electrical Mechanism for Regulating Motor Speed, Cable Switches, Cable-Switch Panel, Cable Transmitters, Clips (Connecting), Commutators, Electromagnetic Reproducers for Phonograph Records, Field Amplifiers, Gain Controls, Ink Recorders for Telegraphic Signals, Leak Boxes, Loading Coils, Microphone Announcing Stands, Telegraph Printers, Radio Photograph-Receiving Units, Radio Photograph-Transmitting Units, Radial-Arm Rheostats, Relay Banks, Start-Stop Distributors, Siphon Recorders for Telegraphic Signals, Storing Transmitters, Telegraphic-Tape Pullers, Telegraphic-Tape Perforators, Ticker-Tape Transmitters, Ticker Stands, Ticker Panels, Telegraph Control Boards, Telegraph Repeaters, Electromagnetic Telegraph Recorders, Variometers.
Claims use since June 9, 1927.

Ser. No. 266,298. C. E. MANUFACTURING CO., INC., Providence, R. I. Filed May 12, 1928.

VENUS

For Thermionic Vacuum Tubes.
Claims use since Feb. 1, 1928.

Ser. No. 267,832. CALIFORNIA FRUIT GROWERS EXCHANGE, Los Angeles, Calif. Filed June 11, 1928.

Sunkist Junior

For Electrical Fruit-Juice Extractors.
Claims use since Mar. 24, 1928.

Ser. No. 272,207. FRANKART, INC., New York, N. Y. Filed Sept. 11, 1928.




For Electric Lamps.
Claims use since about January, 1924.

Ser. No. 272,425. PHILADELPHIA STORAGE BATTERY CO., Philadelphia, Pa. Filed Sept. 14, 1928.

PHILCO

For Radio Receiving Sets and Radio Speakers.
Claims use since June 25, 1928, upon radio receiving sets and upon radio speakers since July 31, 1928.

Ser. No. 272,430. RAYMOND'S INC., Boston, Mass. Filed Sept. 14, 1928.




For Radio Products—Namely, Radio Receiving Sets, Radio "A" Batteries, Radio "B" Batteries, Radio Tubes, Radio "C" Batteries, Transformers, Loud Speakers, Radio Battery Dry Cells, Socket Power Units, "B" Eliminators, "A" Chargers, and Units for Radio Apparatus.
Claims use since Jan. 1, 1926.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 263,018. RICHARD WOLFE, Chicago, Ill. Filed Mar. 12, 1928.

HEADOWN

For a Device to be Worn by a Person When Playing Golf to Assist the Player While Swinging a Club in Maintaining the Correct Position for Such Swing.
Claims use since Sept. 5, 1927.

Ser. No. 268,754. A. G. SPALDING & BROS., New York, N. Y. Filed June 27, 1928.



The trade-mark consists of a blue streak or band disposed lengthwise on the side of the skate blade and contrasting in color to the blade portions above and below the same. The drawing is lined to represent color blue. No claim is made for the representation of the skate.
For Ice Skates.
Claims use since Jan. 18, 1922.

Ser. No. 269,823. JAMES H. BOYE MANUFACTURING CO., Chicago, Ill. Filed July 19, 1928.

**BOYEMACO**

For Golf Clubs.
Claims use since July 5, 1928.

Ser. No. 270,350. PLAYGOLF, INC., Cleveland, Ohio. Filed July 30, 1928.

Playgolf Junior

For Parlor or Indoor Golf Games.
Claims use since Sept. 1, 1927.

Ser. No. 272,031. HUNT, HELM, FERRIS & CO., Harvard, Ill. Filed Sept. 7, 1928.

Airplane

The word "Airplane" is disclaimed apart from the mark shown on the drawing.
For Airplane Swings for Children.
Claims use since Nov. 1, 1927.

Ser. No. 272,990. CARVEL H. LANGE, New York, N. Y. Filed Sept. 26, 1928.

**ROULETTE GOLF**

No claim is made to the word "Golf."
For Golf Game Consisting of a Suitably Subdivided Target Adapted to be Placed Upon the Floor or Ground.
Claims use since Sept. 18, 1928.

Ser. No. 273,235. HUSTLER TOY CORPORATION, Sterling, Ill. Filed Oct. 2, 1928.

**QUESTOR**

For Question and Answer Game.
Claims use since July 17, 1928.

## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 217,644. THE SPEEDAUMATIC COMPANY, Chicago, Ill. Filed July 20, 1925.

Speedaumat

For Printing Plates for Addressing and Similar Machinery, Embossing Machines, Addressing Machines, Mailing Machines, and Galley Trays.
Claims use since 1919.

Ser. No. 258,185. MASKIN- OCH BROBYGGNADS AKTIEBOLAGET, Helsingfors, Finland. Filed Nov. 29, 1927.

NEW PRIMA

For Dairy Machinery—viz, Cream Separators and Churns.
Claims use since Jan. 25, 1926.

Ser. No. 261,365. KINFOLKS INCORPORATED, Little Valley, N. Y. Filed Feb. 8, 1928.

SHAVRITE WITH SAFETY

No claim is made to the words "With Safety" apart from their showing in the drawing.
For Razors and Hand Knives of Base Metal.
Claims use since Dec. 5, 1927.



Ser. No. 264,242. R. H. MACY & CO., INC., New York, N. Y. Filed Apr. 3, 1928.

Supre-Macy

For Lawn Mowers.
Claims use since Mar. 1, 1927.

Ser. No. 264,424. CONVEYOR SALES COMPANY, INC., New York, N. Y. Filed Apr. 6, 1928.

OSCO

For Reciprocating Conveyors, Conveyor Drives, Troughs, Loading and Discharging Attachments, Rollers, and Cradles.
Claims use since Jan. 14, 1928.

Ser. No. 264,623. WHISK RAZOR CORPORATION, Buffalo, N. Y. Filed Apr. 9, 1928.

The WHISKETEER Electric Safety Razor

No claim is made to the use of the words "Electric Safety Razor" nor to the representation of the goods except in combination with the mark as shown.
For Electric Razors and Razor Blades.
Claims use since Mar. 31, 1928.

Ser. No. 268,688. W. T. GRANT COMPANY, doing business as Crucible Knife Co., Lynn, Mass., and New York, N. Y. Filed June 26, 1928.

CRUCIBLE KNIFE CO.

For Pen Knives.
Claims use since November, 1926.

Ser. No. 269,643. DRIVER-HARRIS COMPANY, Harrison, N. J. Filed July 16, 1928.

**PREMIER**

For Diamond Dies and Composition Wire Dies.
Claims use since May 31, 1928.

Ser. No. 271,367. CYRIL L. TITTEMORE, doing business as C. L. Tittemore Company, San Francisco, Calif. Filed Aug. 21, 1928.

**AIRMODE**

For Spraying Equipment for Applying Liquid Veneer and Paint.
Claims use since Feb. 5, 1928.

Ser. No. 271,527. YATES-AMERICAN MACHINE COMPANY, Beloit, Wis. Filed Aug. 24, 1928.

TRIPLE C KNIVES

The word "Knives" is disclaimed apart from the mark as shown.
For Knives for Woodworking Machines.
Claims use since Aug. 16, 1928.

Ser. No. 271,626. RUD. SACK, Leipzig, Germany. Filed Aug. 27, 1928.

RSP

For Agricultural Implements—Namely, Plows, Harrows, Rollers, Sowing Machines of All Kinds, Hoeing and Heaping Implements, and Potato-Picking Plows.
Claims use since 1888.

Ser. No. 272,437. SKELTON SHOVEL CO., INC., Dunkirk, N. Y. Filed Sept. 14, 1928.

FLEXTEEL

For Shovels and Spades.
Claims use since Dec. 1, 1927.

Ser. No. 272,637. AMERICAN CAR AND FOUNDRY MOTORS COMPANY, New York, N. Y. Filed Sept. 19, 1928.

acf

For Internal-Combustion Engines.
Claims use since January, 1927.

Ser. No. 272,885. JOHN HANLEY, Detroit, Mich. Filed Sept. 24, 1928.

WHIRLGAS

For Fuel Mixers.
Claims use since Sept. 17, 1928.

Ser. No. 273,161. FRANK PROKOP, Milwaukee, Wis. Filed Sept. 29, 1928.




For Wrenches.
Claims use since Sept. 15, 1927.

Ser. No. 273,223. J. HENRY C. BOIG, Muskogee, Okla. Filed Oct. 2, 1928.




For Blade Holder for Use in Stropping Safety-Razor Blades.
Claims use since May 1, 1927.

## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 255,277. THE TEXAS LAUNDRY MACHINERY COMPANY, INC., San Antonio, Tex. Filed Sept. 26, 1927. Under 10-year proviso.

MANDRY

For Laundry Washing Machines.
Claims use since 1873.

Ser. No. 255,278. THE TEXAS LAUNDRY MACHINERY COMPANY, INC., San Antonio, Tex. Filed Sept. 26, 1927.

TEX-LA-MA CO.

For Laundry Washing Machines.
Claims use since Jan. 1, 1924.

## CLASS 25.

### Locks and Safes.

Ser. No. 272,276. IN-A-WALL SAFE COMPANY, INC., Los Angeles, Calif. Filed Sept. 12, 1928.




The representation of the "Safe" is disclaimed apart from the mark as shown.
For Safes.
Claims use since Apr. 28, 1928.

## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 260,891. KALLE & CO. AKTIENGESELLSCHAFT, Wiesbaden-Biebrich, Germany. Filed Jan. 30, 1928.

Ozalid

For Light-Sensitive Copying and Photographic Papers.
Claims use since Mar. 19, 1923.

## CLASS 27.

### Horological Instruments.

Ser. No. 267,378. L. MONNIER & CIE., La Chaux-De-Fonds, Switzerland. Filed June 2, 1928.

Monyco

For Watches and Watch Materials—Namely, Dials, Hands, and Other Parts of Watches.
Claims use since 1919.



Ser. No. 271,564. PARK WATCH IMPORT CO., INC., Buffalo, N. Y. Filed Aug. 25, 1928.

IVY

For Watches.
Claims use since July 15, 1928.

## CLASS 29.

### Brooms, Brushes, and Dusters.

Ser. No. 270,768. NIEL HANDEST, doing business as Handest Specialty Co., New York, N. Y. Filed Aug. 8, 1928.




The words "Hand-I-Est Products" are disclaimed apart from the other features of the mark shown.
For Ready-Cut Cleaning, Dusting, and Polishing Cloths, Not Especially Treated, and Shoe Polishers.
Claims use since Sept. 12, 1922.

Ser. No. 272,260. DELCO-REMY CORPORATION, Anderson, Ind., and Dayton, Ohio. Filed Sept. 12, 1928.

Delco-Remy

No claim is made to the exclusive use of the surname "Remy" separate and apart from the mark in its entirety as it appears in drawing.
For Windshield Wipers.
Claims use since June 9, 1928.

## CLASS 31.

### Filters and Refrigerators.

Ser. No. 272,350. RHINELANDER REFRIGERATOR CO., Rhinelander, Wis. Filed Sept. 18, 1928.




For Refrigerators.
Claims use since July 24, 1928.

Ser. No. 272,352. RHINELANDER REFRIGERATOR CO., Rhinelander, Wis. Filed Sept. 13, 1928.




No claim is made to the word "Coldayr" apart from the mark shown in the drawing.
For Refrigerators.
Claims use since July 24, 1928.

## CLASS 32.

### Furniture and Upholstery.

Ser. No. 271,448. MCLEOD FURNITURE COMPANY, Laurel, Miss. Filed Aug. 28, 1928.

Laurite

For Tables, Library Desks, Home Desks, Office Desks, Office Chairs, and Home Chairs.
Claims use since May 30, 1928.

Ser. No. 272,236. YORKVILLE UPHOLSTERY CO. INC., New York, N. Y. Filed Sept. 11, 1928.




Applicant disclaims the words "Manufacturers, New York, and Davenport Bed."
For Sofas and Upholstered Chairs.
Claims use since May 23, 1928.

## CLASS 33.

### Glassware.

Ser. No. 186,850. ORANGE CRUSH CO., Chicago, Ill. Filed Oct. 11, 1923.

Krinkly

For Empty Glass Bottles.
Claims use since July, 1919.

## CLASS 34.

### Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 272,016. YORK HEATING & VENTILATING CORPORATION, Bridgeport, Pa. Filed Sept. 6, 1928.

YORK AIR-COOLING UNIT

No claim is made to the words "York Air-Cooling Unit" apart from the mark shown.
For Air-Cooling Apparatus.
Claims use since Jan. 19, 1928.

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Ser. No. 272,443. THE SPRINGFIELD LEATHER PRODUCTS COMPANY, Springfield, Ohio. Filed Sept. 14, 1928.

CAMEO

For Friction Cigarette Lighters.
Claims use since Mar. 1, 1927.

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Ser. No. 273,389. ACORN ELBOW & MANUFACTURING COMPANY, Cleveland, Ohio. Filed Oct. 5, 1928.



For Sheet-Metal Goods—Namely, Stovepipe, Heating and Ventilating Pipe, Conduits, Elbows, and Parts of Such Pipe and Conduits.
Claims use since May 10, 1923.

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## CLASS 35.

### Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 272,449. ALFIT PACKING CO., INC., New York, N. Y. Filed Sept. 15, 1928.

ALFIT

For Packing Material for Use in Stuffing Boxes and the Like.
Claims use since Dec. 9, 1927.

## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 263,618. REGAL MUSICAL INSTRUMENT COMPANY, Chicago, Ill. Filed Mar. 22, 1928.

OCTOFONE

For Stringed Musical Instruments of the Fretted Type.
Claims use since Jan. 27, 1928.

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Ser. No. 270,754. PLAZA MUSIC COMPANY, New York, N. Y. Filed Aug. 8, 1928.

PLAZA

For Musical Instruments and Supplies Consisting of Phonograph Apparatus for Recording and Reproducing Sounds—Namely, Sound-Recording Machines and Reproducing Phonographs, Automatic Musical Instruments of the Character Known as Multiple-Playing Phonographs; Parts for Such Phonographs, Recording Machines, and Automatic Musical Instruments; also the Following Accessories Therefor—Namely, Needles, Mechanical Phonograph Motors, Reproducers, Recorders, Diaphragms, Needle Cups, Horns, and Tone Arms; Phonograph Records, both Recording and Reproducing; Envelopes and Albums.
Claims use since about Jan. 15, 1910.

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## CLASS 37.

### Paper and Stationery.

Ser. No. 272,835. TRANSKRIT, A. G., Zurich, Switzerland. Filed Sept. 22, 1928.

Transkrit

For Copying Blanks.
Claims use since March, 1928.

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Ser. No. 272,968. THE WARREN MANUFACTURING CO., Riegelsville, N. J., and New York, N. Y. Filed Sept. 25, 1928.

GLYCOPHANE

For Wrapping Paper.
Claims use since Sept. 4, 1928.

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Ser. No. 273,509. NEVA-CLOG PRODUCTS, INC., Bridgeport, Conn. Filed Oct. 8, 1928.

ELASTIC

For Loose-Leaf Notebooks.
Claims use since about January, 1928.



## CLASS 38.

### Prints and Publications.

Ser. No. 245,515. JAROSLAV PERGL, doing business as Metro Art Studio, Chicago, Ill. Filed Mar. 10, 1927.

Metro Art Studio

For Photographs, Water-Color Drawings, Oil Paintings, Pictorial Illustrations, Artistic Advertising Posters.
Claims use since May 15, 1924.

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Ser. No. 263,853. CARL A. BUNDY, doing business as Carl A. Bundy Quill & Press, Los Angeles, Calif. Filed Mar. 28, 1928.

Gumption Quill

For Articles Appearing Periodically in Connection with Printed Publications and Advertisements Sold to the Trade as Such.
Claims use since September, 1919.

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Ser. No. 266,421. SAMUEL GOLDEN, doing business as Golden Printing Service, New York, N. Y. Filed May 15, 1928.

HOME MOVIES

For Magazine or Periodical.
Claims use since Mar. 30, 1928.

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Ser. No. 268,667. MELVIN YOUNG, New York, N. Y. Filed June 25, 1928.

The Life Insurance Teacher by Melvin Young

For House Organ.
Claims use since June 21, 1928.

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Ser. No. 270,966. EARL T. HELMS, Kansas City, Mo. Filed Aug. 13, 1928.

PULLMAN BULL

For Comic Strip.
Claims use since Jan. 21, 1928.

Ser. No. 272,726. MARYLAND PREMIUM REDEMPTION COMPANY, Baltimore, Md. Filed Sept. 20, 1928.

Maprero

For Trade Coupons.
Claims use since July 15, 1928.

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Ser. No. 272,993. THE W. E. LONG COMPANY, Chicago, Ill. Filed Sept. 26, 1928.

The ROUND TABLE

For Publication Issued Monthly.
Claims use since Sept. 1, 1928.

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Ser. No. 273,017. SCIENTIFIC PRESS, INC., New York, N. Y. Filed Sept. 26, 1928.

DISTRIBUTION ECONOMY

For Monthly Printed Periodical or Trade Paper.
Claims use since Sept. 20, 1928.

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Ser. No. 273,089. PERMANENT RECORDS CORPORATION LIMITED, New York, N. Y. Filed Sept. 27, 1928.

KALOGRAPH

For Permanent Photographic Records on Metal.
Claims use since about Feb. 1, 1928.

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Ser. No. 273,078. STANDARD PUBLISHING COMPANY, Butte, Mont. Filed Sept. 27, 1928.

The Montana Standard
Combining The Butte Miner and the Butte Edition of The Anaconda Standard

For Daily Newspaper.
Claims use since Sept. 12, 1928.

Ser. No. 273,137. ELLISON PUBLISHING CO. INC., New York, N. Y. Filed Sept. 29, 1928.

UNITED STATES
TOBACCO JOURNAL

For Trade Publications Issued Weekly.
Claims use since May, 1874.

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Ser. No. 273,154. MODERN MILWAUKEEAN COMPANY, Milwaukee, Wis. Filed Sept. 29, 1928.

the modern
MILWAUKEEAN

For Magazines.
Claims use since about Sept. 7, 1928.

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Ser. No. 273,160. PLAZA MUSIC COMPANY, New York, N. Y. Filed Sept. 29, 1928.

PLAZA

For Sheet Music.
Claims use since about Jan. 15, 1910.

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Ser. No. 273,208. REX AGENCY, Sioux City, Iowa. Filed Oct. 1, 1928.

"See Rex Before Wrecks"

For Monthly Publications—Namely, an Insurance Pictorial.
Claims use since May, 1928.

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Ser. No. 273,351. THE ATTORNEYS' NATIONAL CLEARING HOUSE COMPANY, Minneapolis, Minn. Filed Oct. 4, 1928.

THE
CLEARING HOUSE
QUARTERLY

For Quarterly Publication.
Claims use since Jan. 1, 1895.

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Ser. No. 273,525. STANDARD PUBLISHING COMPANY, Butte, Mont. Filed Oct. 8, 1928.

The Montana Standard

For Daily Newspaper.
Claims use since Sept. 12, 1928.

## CLASS 39.

### Clothing.

Ser. No. 238,790. GEORGE W. HUBLER, doing business as Geo. W. Hubler Shoe Co., Auburn, Pa. Filed Oct. 18, 1926.




No registration rights are claimed for the words "Premium Brand" apart from the mark as shown in the drawing.
For Shoes Made of Leather, Canvas, Cloth, Velvet, and Satin or Combinations Thereof.
Claims use since Apr. 1, 1915.

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Ser. No. 239,216. ABRAHAM & STRAUS, INC., New York, N. Y. Filed Oct. 26, 1926.

Patty Frocks

The word "Frocks" is disclaimed apart from the mark as shown.
For Misses' Dresses, Not Including Children's Dresses.
Claims use since Sept. 21, 1926.

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Ser. No. 257,167. LUCIEN LELONG, Paris, France. Filed Nov. 7, 1927.

Lucien Lelong

The mark consists in the facsimile signature of the applicant.
For Women's and Children's Dresses and Outer Waists; Men's, Women's, and Children's Tailored Suits; Outer Skirts; Sweaters; Fur Garments—Namely, Coats, Capes, Jackets, Neck Scarfs, and Muffs; Men's, Women's, and Children's Woven Nightgowns, Woven Pyjamas, and Woven Undergarments—Namely, Shirts, Drawers, and Union Suits; Envelope Chemises, Petticoats, and Princess Slips; Women's Boudoir Jackets; Bibs, Baby Caps, Baby Booties.
Claims use since April, 1920.



Ser. No. 262,283. CHARLES L. AMOS, doing business as Melrose Hosiery Mills, High Point, N. C. Filed Feb. 27, 1928.

MELROSE



For Hosiery for Men, Women, and Children.
Claims use since Oct. 1, 1924.

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Ser. No. 264,241. R. H. MACY & CO., INC., New York, N. Y. Filed Apr. 3, 1928.

NANCY ANN

For Morning Dresses for Women and Misses.
Claims use since Feb. 10, 1928.

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Ser. No. 265,770. SAMUEL ARONSON, doing business as Arch-Kare Shoe Co., Boston, Mass. Filed May 2, 1928.




No claim is made to the representation of a shoe appearing on the drawing except in association with the words "Arch-Kare."
For Boots and Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since Feb. 21, 1928.

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Ser. No. 267,290. GEORGE W. BAKER SHOE COMPANY, Brooklyn, N. Y. Filed June 1, 1928.

STARTRIGHT
SHOE

Applicant disclaims the right to the exclusive use of the word "Shoe" which appears on the drawing.
For Leather Shoes.
Claims use since on or before Nov. 25, 1907.

Ser. No. 268,460. PAGE DRESS SHOP, INCORPORATED, Detroit, Mich. Filed June 21, 1928.




The drawing is lined to indicate the color red.
For Ladies' and Girls' Frocks and Dresses.
Claims use since Apr. 15, 1927.

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Ser. No. 269,850. MODERN CLOAK & SUIT COMPANY, Philadelphia, Pa. Filed July 19, 1928.




The descriptive term "Virgin Wool" is hereby disclaimed apart from the mark as shown in the accompanying drawing.
For Ladies' and Misses' Coats and Suits.
Claims use since Jan. 1, 1926.

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Ser. No. 270,797. MCCAIN-WAIGHT, INC., St. Louis, Mo. Filed Aug. 9, 1928.

ARCHCREST

For Women's Shoes Made of Leather, Fabric, and Rubber or Combinations Thereof.
Claims use since July 1, 1928.

Ser. No. 271,164. BROADSTREET'S INCORPORATED, New York, N. Y. Filed Aug. 17, 1928.

Broadstreet's

For Men's, Boys', and Children's Outer Garments Consisting of Coats, Vests, Pants, Overcoats, Raincoats, Dusters, Mackinaws, Ulsters, Smoking Jackets, Automobile Coats, Bath Wraps, and Women's and Children's Outer Garments Consisting of Coats, Bath Wraps, Mackinaws, Knickers; Men's Dress, Negligee, and Work Shirts; Men's, Women's, and Children's Underwear Made of Knitted, Netted, or Textile Fabrics, and Uppers for Shoes.
Claims use since Jan. 1, 1925.

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Ser. No. 271,281. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Aug. 18, 1928.

LAFLEX

For Soles for Shoes.
Claims use since Aug. 7, 1928.

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Ser. No. 271,437. GOLDEN DAWN HOSIERY SHOPS, Wilmington, Del. Filed Aug. 23, 1928.




For Men's, Women's, and Children's Hosiery and Underwear Made of Knitted and Textile Fabrics.
Claims use since July 20, 1928.

Ser. No. 271,491. JOHN E. HANIFEN COMPANY, Philadelphia, Pa. Filed Aug. 24, 1928.




The word "Hanifen" is disclaimed apart from the mark shown.
For Sweaters, Sweater Coats, Sweater Suits, Bathing Suits, Knitted and Woven Undershirts, Underdrawers, and Union Suits All Above Garments Being for Men, Women, and Children, and Children's Play Suits.
Claims use since May 1, 1928.

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Ser. No. 271,507. HAROLD POSNER, Brooklyn, N. Y. Filed Aug. 24, 1928.




For Ladies' Hosiery and Knitted Underwear—Namely, Bloomers, Step-Ins, and Chemises.
Claims use since Jan. 3, 1928.

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Ser. No. 271,588. ARLEIGH MILTON MILLER, Harrisburg, Pa. Filed Aug. 27, 1928.




No claim is made to the exclusive use of the words "Combination Last" apart from the mark as shown in the drawing.
For Shoes Made of Leather, Fabric, and Combinations of These Materials.
Claims use since Mar. 21, 1927.



Ser. No. 271,884. DAVID FELDMAN, doing business as Feldman and Sons, Baltimore, Md. Filed Sept. 4, 1928.

BIG HIT

For Work Shirts.
Claims use since Aug. 20, 1928.

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Ser. No. 271,886. DAVID FELDMAN, doing business as Feldman and Sons, Baltimore, Md. Filed Sept. 4, 1928.

BLUE BOAR

For Work Shirts.
Claims use since Aug. 20, 1928.

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Ser. No. 271,901. NATIONAL PETTICOAT & UNDERGARMENT CORPORATION, New York, N. Y. Filed Sept. 4, 1928.

Comfolastic

For Women's and Children's Undergarments—Namely, Bloomers, Step-Ins, Shirts, Slips, Union Suits, Chemises, Women's and Children's Dresses; Brassière Girdles; Petticoats, Waists for Under or Outer Wear; Pajamas; All Made of Knitted or Woven Fabrics.
Claims use since July 1, 1928.

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Ser. No. 272,039. MANSON HAT CO., INC., New York, N. Y. Filed Sept. 7, 1928.




For Men's Hats and Caps.
Claims use since May, 1928.

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Ser. No. 272,080. EDWIN A. GUINZBURG, New York, N. Y. Filed Sept. 8, 1928.

SANGUINET

For Bathing Shoes.
Claims use since Feb. 25, 1927.

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Ser. No. 272,202. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Sept. 11, 1928.

FASHION PARK

For Women's Coats.
Claims use since about Jan. 1, 1915.

Ser. No. 272,325. CHAS. R. DE BEVOISE COMPANY, Newark, N. J. Filed Sept. 13, 1928.

ROMP-AWAY

For Combinations of Bandeaux or Brassières and Panties.
Claims use since about Aug. 1, 1928.

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Ser. No. 272,344. NATIONAL TEXTILE DIST. CORP., New York, N. Y. Filed Sept. 13, 1928.

NatexCo

For Men's and Boys' Outer Wear—Namely, Dress and Work Shirts, Blouses and Waists, Made of Cotton, Wool, and Rayon and Combinations Thereof, Overalls, Collars, Necktles and Belts; Women's and Children's Outer Wear—Namely, Dresses, Aprons, and Waists; and Women's and Children's Underwear — Namely, Corsets, Brassières, Gowns, and Garters; and Fabric Gloves for Men, Women, and Children, and Hosiery.
Claims use since March, 1928.

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Ser. No. 272,483. GARVE FRERES, INC., New York, N. Y. Filed Sept. 15, 1928.

Flamingo Felts

No claim is made to the word "Felts" apart from the mark shown on the drawing.
For Women's, Children's, and Men's Felt Hats.
Claims use since May, 1928.

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Ser. No. 272,529. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Sept. 17, 1928.

Aimcee

For Hose Supporters.
Claims use since February, 1927.

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Ser. No. 272,539. BRADSTONE RUBBER COMPANY, Woodbine, N. J. Filed Sept. 17, 1928.




For Rubber Heels.
Claims use since January, 1928.

Ser. No. 272,540. BRADSTONE RUBBER COMPANY, Woodbine N. J. Filed Sept. 17, 1928.

BRASTOCO

For Rubber Heels.
Claims use since September, 1925.

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Ser. No. 272,567. THE F. & R. LAZARUS & COMPANY, Columbus, Ohio. Filed Sept. 17, 1928.

JO-ANN

For Women's Leather and Fabric Boots and Shoes.
Claims use since June 20, 1928.

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Ser. No. 272,606. ENID MFG. CO., New York, N. Y. Filed Sept. 18, 1928.

Maidenette

For Brassières.
Claims use since June 18, 1928.

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Ser. No. 272,614. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Sept. 18, 1928.

DOVESHEEN

For Men's Dress and Work Shirts.
Claims use since about Aug. 1, 1928.

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Ser. No. 272,615. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed Sept. 18, 1928.

DUROSHEEN

For Men's Dress and Work Shirts.
Claims use since about Aug. 1, 1928.

Ser. No. 272,656. HOLSTEN, YOUNG & CO., New York, N. Y. Filed Sept. 19, 1928.

RUMBLESEAT

For Ladies' and Misses' Coats.
Claims use since about Sept. 1, 1928.

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Ser. No. 272,677. STERN BROTHERS, New York, N. Y. Filed Sept. 19, 1928.

TRIANON

For Men's, Women's, and Children's Gloves of Leather, Suede, Fabric, and/or Combinations Thereof.
Claims use since Aug. 10, 1928.

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Ser. No. 272,691. BROWN DURRELL CO., Boston, Mass., and New York, N. Y. Filed Sept. 20, 1928.

DULREY

For Men's, Women's, and Children's Underwear Such as Shirts, Drawers, Union Suits, and Pajamas; Step-ins, Chemises, Brassières, Nightgowns, French Pants, Bloomers, Skirts, Slips, Coolie Coats, All Made of Silk, Rayon, Cotton, and/or Combinations Thereof and Hosiery.
Claims use since May 25, 1928.

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Ser. No. 272,766. LINDER BROTHERS, INC., New York, N. Y. Filed Sept. 21, 1928.

Shagmoor

For Ladies' Coats and Suits for Outer Wear.
Claims use since June 1, 1921.

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Ser. No. 272,862. WALTER A. CHENEY BOWTIE CO., Boston, Mass. Filed Sept. 24, 1928.

RAPID

For Neckties, Scarfs, and Cravats.
Claims use since Mar. 1, 1928.



Ser. No. 272,874. ELDER MFG. CO., St. Louis, Mo. Filed Sept. 24, 1928.

BROOKHURST

For Men's and Boys' Dress and Negligee Shirts and Boys' Blouses.
Claims use since Aug. 15, 1928.

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Ser. No. 272,875. ELDER MFG. CO., St. Louis, Mo. Filed Sept. 24, 1928.

DOMINANT

For Men's and Boys' Dress and Negligee Shirts and Boys' Blouses.
Claims use since Aug. 15, 1928.

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Ser. No. 272,876. ELDER MFG. CO., St. Louis, Mo. Filed Sept. 24, 1928.

Glencliffe

For Men's and Boys' Dress and Negligee Shirts and Boys' Blouses.
Claims use since Aug. 15, 1928.

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## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 265,272. LEON LESTER HEISERMAN, doing business as Missouri Floral Company, St. Louis, Mo. Filed Apr. 23, 1928.

LINDBERGH

The Spirit of St. Louis

No claim is made to the words "Lindbergh" and "The Spirit of St. Louis" apart from the mark shown.
For Artificial Flowers.
Claims use since Apr. 7, 1928.

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Ser. No. 271,726. PERCY B. T. WILLIAMS, Philadelphia, Pa. Filed Aug. 29, 1928.

BLUE RIBBON

For Combs of Hard Rubber, Celluloid, and Tesien.
Claims use since Apr. 26, 1928.

Ser. No. 272,580. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Sept. 17, 1928.

Aimcee

For Dress Shields, Bias Tape, Twill Tape, and Seam Bindings.
Claims use since May, 1925.

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## CLASS 41.

### Canes, Parasols, and Umbrellas.

Ser. No. 272,195. ALFRED G. BERWIN, New York, N. Y. Filed Sept. 11, 1928.

MIDGET UMBRELLA

No claim is made to the words "Umbrella" and "Trade-Mark" apart from the mark shown in the drawing.
For Collapsible Umbrellas.
Claims use since July 1, 1928.

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## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 258,085. NEUSS HESSLEIN & CO. INC., New York, N. Y. Filed Nov. 25, 1927.

PAYASO

HEAVY DRILLING

KN

The descriptive matter "Heavy Drilling" is disclaimed apart from the mark shown.
For Cotton Piece Goods, Particularly Grey Cotton Goods.
Claims use since February, 1921.

Ser. No. 267,600. GRACE S. PARTRIDGE, Washington, D. C. Filed June 6, 1928.

Grampian Cloth

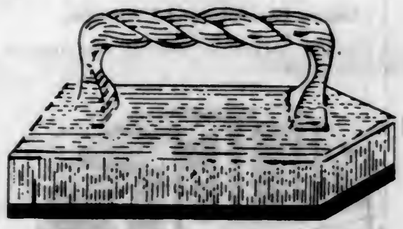
No claim is made to the right to the exclusive use of the word "Cloth" apart from the mark shown.

For Hand-Woven Cloth in the Piece, Material for Ladies' Dresses Composed of Wool, Silk and Wool, and All Silk.

Claims use since Oct. 1, 1927.

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Ser. No. 271,135. MAINZER MINTON CORPORATION, New York, N. Y. Filed Aug. 16, 1928.



For Textile Fabrics in the Piece Consisting of Canvas and Linings Made of Cotton, Cotton and Jute, All Jute, All Linen, and Linen and Jute.

Claims use since Nov. 3, 1927.

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Ser. No. 271,136. MAINZER MINTON CORPORATION, New York, N. Y. Filed Aug. 16, 1928.

Wacraft

For Textile Fabrics in the Piece Consisting of Canvas and Linings Made of Cotton, Cotton and Rayon, and Cotton and Silk Linen and Union Cloths.

Claims use since Nov. 3, 1927.

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Ser. No. 272,093. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Sept. 8, 1928.

TRILANESE

For Woven and Knitted Fabrics Made Wholly or Partially from Cellulose Derivatives.

Claims use since about Aug. 31, 1928.

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Ser. No. 272,095. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Sept. 8, 1928.

ACELE

For Knitted and Woven Piece Goods of Cellulose Acetate Yarns, Threads, and Filaments.

Claims use since Aug. 13, 1928.

Ser. No. 272,096. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Sept. 8, 1928.

DU PONT RAYON

ACELE

No claim is made to the word "Rayon" apart from the mark shown.

For Knitted and Woven Piece Goods of Cellulose Acetate Yarns, Threads, and Filaments.

Claims use since Aug. 13, 1928.

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Ser. No. 272,618. WM. T. KNOTT COMPANY INC., New York, N. Y. Filed Sept. 18, 1928.

CROMWELL



The representation of the bust shown in the drawing is that of Oliver Cromwell.

For Sheets, Pillowcases, and Sheetings.

Claims use since July 1, 1928.

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Ser. No. 272,625. G. SIDENBERG & CO. INC., New York, N. Y. Filed Sept. 18, 1928.

JUNGLE LAND

For Cotton Piece Goods.

Claims use since Sept. 4, 1928.

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Ser. No. 272,897. POWDRELL & ALEXANDER, INC., Boston, Mass. Filed Sept. 24, 1928.

Bostonet

For Piece Goods and Curtains of Cotton, Rayon, and Combinations Thereof.

Claims use since Sept. 11, 1928.



Ser. No. 273,428. THE WOOLEN CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 5, 1928.



For Wool, Worsted, Cotton, Silk, Rayon, Linen, and/or Combinations Thereof in the Piece.

Claims use since June 1, 1927.

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Ser. No. 273,443. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 6, 1928.

CELADON

For Fabrics Made Wholly or Partially of Cellulose Derivatives.

Claims use since about Oct. 4, 1928.

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Ser. No. 273,460. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y. Filed Oct. 6, 1928.

VITACOLOR

For Piece Goods Made of Silk, Cotton, and Wool.

Claims use since Sept. 21, 1928.

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Ser. No. 273,477. SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Oct. 6, 1928.

FANCHON

For Silk Piece Goods.

Claims use since September, 1924.

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Ser. No. 273,478. SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Oct. 6, 1928.

Francine

For Silk Piece Goods.

Claims use since September, 1924.

Ser. No. 273,480. SUSQUEHANNA SILK MILLS, New York, N. Y. Filed Oct. 6, 1928.

Jolly

For Silk Piece Goods.

Claims use since January, 1925.

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Ser. No. 273,575. BREESLIN-GRIFFITT CARPET COMPANY, New York, N. Y. Filed Oct. 10, 1928.

MELISTAN

For Carpets and Rugs, Both Textile.

Claims use since Aug. 7, 1928.

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## CLASS 43.

### Thread and Yarn.

Ser. No. 272,097. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Sept. 8, 1928.

ACELE

For Cellulose Acetate Yarns, Threads, and Filaments.

Claims use since Aug. 14, 1928.

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## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 267,764. GRAVELLE & WEIANT, South Orange, N. J. Filed June 9, 1928.

ANALYTE

For Mercury-Vapor Lamps Used with Colored Filters.

Claims use since Apr. 5, 1927.

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Ser. No. 269,280. ELECTA, INSTRUMENTS ET PRODUITS THÉRAPEUTIQUES, SOCIÉTÉ ANONYME, Lausanne, Switzerland. Filed July 9, 1928.

LAXOR

For Apparatus for the Treatment and Prevention of Habitual Constipation.

Claims use since Apr. 7, 1928.

Ser. No. 272,191. THE ADJUSTABLE FIXTURE CO., Milwaukee, Wis. Filed Sept. 11, 1928.

VITALITE

For Light and Heat Reflectors for Therapeutic Purposes.
Claims use since May, 1927.

## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 264,131. THE "WISTY" PRODUCTS COMPANY, INC., New York, N. Y. Filed Mar. 31, 1928.

ORANGE TOD-DEE
THE "WISTY" PRODUCTS COMPANY, INC

The drawing is lined to indicate orange and blue. The word "Orange" is disclaimed apart from the mark shown in the drawing.
For Orange Tonic Beverage Sold as a Soft Drink.
Claims use since January, 1928.

Ser. No. 271,902. NESBITT FRUIT PRODUCTS, INC., Los Angeles, Calif. Filed Sept. 4, 1928.

OLD REPEAT

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Syrups, Extracts, and Concentrates for Preparing Same.
Claims use since Aug. 1, 1928.

Ser. No. 272,718. THOMAS B. KANE, doing business as Philadelphia Bottling Company, Philadelphia, Pa. Filed Sept. 20, 1928.

HYGEIA-PERFECTO

For Distilled Water.
Claims use since Apr. 2, 1928.

Ser. No. 273,333. KARL O. THOMPSON, doing business as Key West Coca-Cola Bottling Co., Key West, Fla. Filed Oct. 3, 1928.

PINE-APPA

For Pineapple Drink, a Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink and Sirup and Extract for Making the Same.
Claims use since Aug. 5, 1927.

Ser. No. 273,370. THE HOWDY COMPANY, St. Louis, Mo. Filed Oct. 4, 1928.

"SEVEN UP"

For Carbonated, Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since Aug. 7, 1928.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 241,070. C. EDGAR SCHABACKER, Buffalo, N. Y. Filed Dec. 6, 1926.



The portrait contained in the trade-mark is fanciful.
For Candies.
Claims use since Oct. 12, 1926.

Ser. No. 242,872. WILBUR ELLIS COMPANY, San Francisco, Calif. Filed Jan. 14, 1927.

LIGHTHOUSE

For Stock Food—Namely, Fish Meal.
Claims use since Aug. 2, 1926.



Ser. No. 248,795. G. RINALDI FU NICOLA, also doing business as Fabbrica di Conserve Alimentari, Mercato San Severino, Salerno, near Naples, Italy, and New York, N. Y. Filed May 10, 1927.

G. RINALDI FU NICOLA
TOMATO STAR BRAND

The name "G. Rinaldi fu Nicola" forms no part of the technical trade-mark. No claim is made to the exclusive use of the words "Tomato Brand" or the representation of a tomato apart from the mark as shown in the drawing. The color of the star is blue.
For Canned Natural Tomato Sauce.
Claims use since Sept. 1, 1926.

Ser. No. 248,829. GARNEAU & DE BRUYN, INC., doing business as the Bico Distributing Company, New York, N. Y. Filed May 11, 1927.

Norway DAINTIES

For Canned Fish—Namely, Canned Sardines.
Claims use since about April, 1928.

Ser. No. 250,535. GREEN BROS. COMPANY, Springfield, Mass. Filed June 15, 1927.

FASTYEAST

The drawing is lined to indicate the color red. No claim is made to the syllable "Fast" or the word "Yeast" apart from the mark as shown.
For Confection Consisting of Chocolate-Covered Yeast.
Claims use since May 11, 1927.

Ser. No. 255,208. SOCIETÀ ADRIATICA LAVORAZIONI ALIMENTARI, Trieste, Italy. Filed Sept. 24, 1927.



For Canned Fish.
Claims use since Jan. 23, 1924.

Ser. No. 257,157. ADOLPH O. GOLDSTEIN, Santa Cruz, Calif. Filed Nov. 7, 1927.

SNOKO

For Frozen Confections.
Claims use since July 1, 1927.

Ser. No. 261,796. THE DANNEMILLER GROCERY COMPANY, Canton, Ohio. Filed Feb. 17, 1928.

DANNEMILLER'S ROYAL

For Staples and Canned Goods—Namely, Coffee, Tea, and Sardines.
Claims use since on or about Jan. 1, 1911.

Ser. No. 267,188. FREDERICK M. BIGHAM, doing business as F. M. Bigham Co., Chicago, Ill. Filed May 29, 1928.

BIGHAM'S PICCALETTE

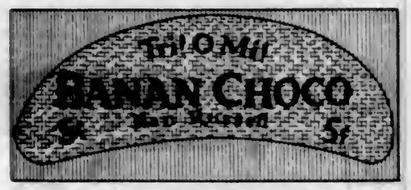
For Vegetable Relish.
Claims use since Jan. 1, 1928.

Ser. No. 267,474. EDWARD WOLF, doing business as Edward Wolf & Co., Chicago, Ill. Filed June 4, 1928.



For Chili Powder, Red Pepper, Comino Seed, White Pepper, Cinnamon, Mixed Pickling Spices, Paprika, and Black Pepper.
Claims use since about June, 1924.

Ser. No. 268,939. ANNA LAURA RUSSELL, New York, N. Y. Filed June 30, 1928.




The lining in the drawing indicates the colors red and yellow as shown. The notation "5¢" is hereby disclaimed.
For Candy and Candied Fruits—Namely, Chocolate-Covered Bananas.
Claims use since Apr. 2, 1928.

Ser. No. 269,504. PABLO BACA, doing business as La Victoria Packing Co., Los Angeles, Calif. Filed July 13, 1928.

LA FLOR DE TABASCO

For Sweet Chocolate.
Claims use since Feb. 1, 1928.

Ser. No. 269,655. GUNTRATH-LORENZEN CO., Chicago, Ill. Filed July 16, 1928.

Fluf-it

For Cake-Flour Preparation.
Claims use since Apr. 6, 1928.

Ser. No. 270,058. SUN-MAID RAISIN GROWERS OF CALIFORNIA, Fresno, Calif. Filed July 23, 1928.

SUN-MAID

For Fresh Grapes.
Claims use since July 27, 1925.

Ser. No. 270,059. SUN-MAID RAISIN GROWERS OF CALIFORNIA, Fresno, Calif. Filed July 23, 1928.



For Fresh Grapes.
Claims use since July 9, 1928.

Ser. No. 270,129. IRVINE VALENCIA GROWERS, Irvine, Calif. Filed July 25, 1928.

TWEED

For Fresh Citrus Fruits.
Claims use since July 7, 1928.

Ser. No. 271,815. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed Aug. 31, 1928.

SOBEE

For Specially-Prepared Food Product for Infants and Invalids.
Claims use since Aug. 1, 1928.

Ser. No. 271,852. OSCAR O. HARRIS, doing business as Peerless Food Products & Supply Co., Philadelphia, Pa. Filed Sept. 1, 1928.

Peerless Master MALT SYRUP

No claim is made to the words "Peerless" and "Malt Syrup." The cross-hatching or lining in the word "Master" is for the color red.
For Malt Syrup.
Claims use since Aug. 14, 1928.



Ser. No. 271,883. EARL FRUIT COMPANY, San Francisco, Calif. Filed Sept. 4, 1928.

SQUEEZE ME

For Fresh Fruits.
Claims use since July 22, 1928.

Ser. No. 272,028. GAGE BALDWIN COMPANY, Duluth, Minn. Filed Sept. 7, 1928.




The word "Grade" is disclaimed apart from the other features of the mark shown in the accompanying drawing. The circle is lined for the color red, the representation of the diamond is lined for the color green, and the B is lined for the color red.
For Fresh Bananas.
Claims use since March, 1924.

Ser. No. 272,046. GEORGE L. NEFF, doing business as GEO. L. NEFF & Co., Pittsburgh, Pa. Filed Sept. 7, 1928.

NOBILE



No registration rights are claimed in the word "Nobile" except in association with the other features of the mark.
For Coffee.
Claims use since Aug. 21, 1928.

Ser. No. 272,065. THE STEELE & MEREDITH CO., Springfield, Ohio. Filed Sept. 7, 1928.

GLEN-ECHO

For Canned Fruits, Canned Vegetables, and Wheat Flour.
Claims use since Jan. 1, 1913.

Ser. No. 272,114. LYELL PRODUCTS COMPANY, Rochester, N. Y. Filed Sept. 8, 1928.

LYELL




The word "Lyell" is disclaimed apart from the mark as shown in the drawing.
For Malt Syrup.
Claims use since May 8, 1928.

Ser. No. 272,413. L. LICHTENBERG, doing business as Suffolk Malt Products Co., Bay Shore, Long Island, N. Y. Filed Sept. 14, 1928.

ELK BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.
For Malt Syrup.
Claims use since May 1, 1922.

Ser. No. 272,414. L. LICHTENBERG, doing business as Suffolk Malt Products Co., Bay Shore, Long Island, N. Y. Filed Sept. 14, 1928.

LION BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing.
For Malt Syrup.
Claims use since May 1, 1920.

Ser. No. 272,695. W. P. CHASE CANDY CORPORATION, Brooklyn, N. Y. Filed Sept. 20, 1928.




No registration rights are claimed for the words "Root Beer Drops" and "5¢."
For Candy Lozenges.
Claims use since September, 1925.

Ser. No. 272,696. W. P. CHASE CANDY CORPORATION, Brooklyn, N. Y. Filed Sept. 20, 1928.




No registration rights are claimed for the words "Root Beer Drops" and "5¢." The lining in the drawing represents green for the background, red for the words "Root Beer Drops," brown for the representation of the mug, and the cross-hatching in the circular device indicates yellow.

For Candy Lozenges.
Claims use since September, 1925.

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Ser. No. 272,852. MRS. BAIRD'S BAKERY, Fort Worth, Tex. Filed Sept. 24, 1928.




The word "Bread" and the representation of a loaf of bread is disclaimed apart from the other features of the mark shown on the drawings.

For Bread.
Claims use since Aug. 20, 1928.

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Ser. No. 273,206. PUYALLUP & SUMNER FRUIT GROWERS ASSOCIATION, Puyallup, Wash. Filed Oct. 1, 1928.

FIR TREE

For Canned Fruits—Namely, Berries.
Claims use since June 20, 1928.

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Ser. No. 273,227. COLUMBIA RIVER PACKERS ASSOCIATION, Astoria, Oreg. Filed Oct. 2, 1928.

SWIFT WATER

For Canned Salmon.
Claims use since June 1, 1928.

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Ser. No. 273,288. CREAM OF WHEAT COMPANY, Minneapolis, Minn. Filed Oct. 3, 1928.

VEHNAKERMA

For Wheat Breakfast Food.
Claims use since about Sept. 19, 1928.

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Ser. No. 273,308. MOUNTAIN CITY MILL CO., INC., Chattanooga, Tenn. Filed Oct. 3, 1928.




For Wheat Flour.
Claims use since Sept. 5, 1928.

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Ser. No. 273,320. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Filed Oct. 3, 1928.

Grizzly Giant

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Jan. 1, 1910.



Ser. No. 273,324. FRANK G. SHATTUCK COMPANY, doing business as The Schrafft's Stores, New York, N. Y. Filed Oct. 3, 1928.

"Top-Off"

For Candy.
Claims use since Aug. 6, 1928.

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Ser. No. 273,336. WENTE BROS., Livermore, Calif. Filed Oct. 3, 1928.

ORO FINO

For Fresh Grapes.
Claims use since Sept. 23, 1928.

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Ser. No. 273,340. COAST FISHING CO., Wilmington, Calif. Filed Oct. 3, 1928.

Lucky Strike

For Canned Fish.
Claims use since June 14, 1923.

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Ser. No. 273,343. LASTRETO & CO., San Francisco, Calif. Filed Oct. 3, 1928.




For Fresh Deciduous Fruits.
Claims use since Sept. 14, 1928.

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Ser. No. 273,410. H. S. PETERSON & CO., Chicago, Ill. Filed Oct. 5, 1928.

VIN-O-JEL

For Jelly.
Claims use since Sept. 26, 1928.

## CLASS 47.

### Wines.

Ser. No. 247,389. J. R. PARKINGTON & CO., LTD., London, England. Filed Apr. 13, 1927.

Sparkling Muscatel
Golden Guinea.

EXTRA QUALITY SPECIAL RESERVE

All rights to the words "Sparkling Muscatel, Extra Quality," and "Special Reserve" apart from other characteristics of the mark are disclaimed.

For Muscatel Wine.
Claims use since July 7, 1914.

## CLASS 49.

### Distilled Alcoholic Liquors.

Ser. No. 257,799. J. A. GILKA A. G., Berlin, Germany. Filed Nov. 19, 1927.




Applicant claims ownership of the following marks: Certificate No. 60,231, issued Jan. 29, 1907; Certificate No. 69,627, issued June 23, 1908; Certificate No. 76,042, issued Dec. 7, 1909; Certificate No. 231,980, issued Aug. 30, 1927; Certificate No. 239,105, issued Feb. 21, 1928.

For Alcoholic Liquors and Spirits—Namely, Caraway Cordials.
Claims use since May, 1927.

## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 264,157. ROBERT EIDINGER, Chicago, Ill. Filed Apr. 2, 1928.

HYDRO-TEX

For Waterproof Cloth Fabrics and Other Waterproofed Fabrics and Yard Goods and Piece Goods.
Claims use since Feb. 2, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 13, 1928.

249,227. RADIO ANTENNÆ. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed June 19, 1928. Serial No. 268,329. PUBLISHED AUGUST 28, 1928. Class 21.

249,228. RADIO ANTENNÆ. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed June 19, 1928. Serial No. 268,328. PUBLISHED AUGUST 28, 1928. Class 21.

249,229. LAXATIVE PREPARATIONS FOR THE TREATMENT OF CONSTIPATION AND ATTENDING ILLS SUCH AS LOSS OF APPETITE, HEADACHE, DISPOSITION TO COLDS OR HEMORRHOIDAL CONDITIONS, INTESTINAL WORMS, AND COUGHS DUE TO COLDS. THE WEBER MEDICAL TEA COMPANY, Brooklyn, N. Y.
Filed June 19, 1928. Serial No. 268,330. PUBLISHED AUGUST 28, 1928. Class 6.

249,230. SANITARY NAPKINS, SURGICAL DRESSINGS, AND ABSORBENT CELLULOSE TISSUE. NATIONAL CELLULOSE CORPORATION, New York, N. Y.
Filed June 20, 1928. Serial No. 268,382. PUBLISHED AUGUST 28, 1928. Class 44.

249,231. FACIAL PRODUCTS—NAMELY, CLEANSING CREAM, TISSUE CREAM, AND FOUNDATION CREAM. PORTITE FACIAL PRODUCTS CO., Miami, Fla.
Filed June 20, 1928. Serial No. 268,390. PUBLISHED AUGUST 21, 1928. Class 6.

249,232. BROOMS. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed June 20, 1928. Serial No. 268,396. PUBLISHED AUGUST 21, 1928. Class 29.

249,233. MEDICATION IN CAPSULE FORM FOR THE TREATMENT OF CERTAIN MENSTRUAL DISORDERS—NAMELY, AMENORRHEA, DYSMENORRHEA, AND MENORRHAGIA. HENRY K. WAMPOLE AND COMPANY, INCORPORATED, Philadelphia, Pa.
Filed June 20, 1928. Serial No. 268,406. PUBLISHED AUGUST 21, 1928. Class 6.

249,234. TANNING COMPOUNDS. WELLINGTON PROCESS COMPANY, INC., Baltimore, Md.
Filed June 20, 1928. Serial No. 268,407. PUBLISHED AUGUST 28, 1928. Class 6.

249,235. NONALCOHOLIC BEVERAGES SUCH AS GINGER AND LIKE ALES, CARBONATED SODAS, AND UNFERMENTED FRUIT JUICES. ANNIE G. LYLE, San Francisco, Calif.
Filed May 19, 1928. Serial No. 266,675. PUBLISHED AUGUST 21, 1928. Class 45.

249,236. CANNED GRAPEFRUIT. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla.
Filed May 19, 1928. Serial No. 266,653. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,237. LADIES' AND MISSES' DRESSES. WILLIAM S. BRANDT, doing business as Smart Fashion Dress Co., also Smart Dress Co., New York, N. Y.
Filed May 19, 1928. Serial No. 266,643. PUBLISHED AUGUST 28, 1928. Class 39.

249,238. WOMEN'S HIGH AND LOW SHOES CONSTRUCTED OF LEATHER. MEYER BROTHERS, Paterson, N. J.
Filed May 17, 1928. Serial No. 266,549. PUBLISHED AUGUST 21, 1928. Class 39.

249,239. LADIES' AND MISSES' HATS. SAMUEL D. LASDON & CO., INC., New York, N. Y.
Filed May 17, 1928. Serial No. 266,546. PUBLISHED JULY 31, 1928. Class 39.

249,240. POMADES. OCTAVE GONZÁLEZ ROURA, Paris, France.
Filed May 14, 1928. Serial No. 266,403. PUBLISHED AUGUST 28, 1928. Class 6.

249,241. NEEDLES FOR HAND USE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed May 14, 1928. Serial No. 266,366. PUBLISHED JULY 24, 1928. Class 40.

249,242. DENTAL MODELING COMPOUNDS. DETROIT DENTAL MANUFACTURING CO., Detroit, Mich.
Filed May 14, 1928. Serial No. 266,361. PUBLISHED AUGUST 21, 1928. Class 44.

249,243. INSECTICIDE. DALLAS DRUGGISTS SYNDICATE, Dallas, Tex.
Filed May 14, 1928. Serial No. 266,360. PUBLISHED AUGUST 14, 1928. Class 6.

249,244. MEDICINAL PREPARATION FOR INDIGESTION, DYSPEPSIA, AND STOMACH DISEASES. DALLAS DRUGGISTS SYNDICATE, Dallas, Tex.
Filed May 14, 1928. Serial No. 266,359. PUBLISHED AUGUST 14, 1928. Class 6.

249,245. MEDICATED FOOT LOTION. DALLAS DRUGGISTS SYNDICATE, Dallas, Tex.
Filed May 14, 1928. Serial No. 266,358. PUBLISHED AUGUST 14, 1928. Class 6.

249,246. WORK SHIRTS. STAHL-URBAN & COMPANY, Terre Haute, Ind.
Filed May 12, 1928. Serial No. 266,332. PUBLISHED AUGUST 21, 1928. Class 39.

249,247. WORK SHIRTS. STAHL-URBAN & COMPANY, Terre Haute, Ind.
Filed May 12, 1928. Serial No. 266,331. PUBLISHED AUGUST 21, 1928. Class 39.

249,248. PUZZLES AND GAMES. EDWARD CHAMNEY CUSACK, New York, N. Y.
Filed May 12, 1928. Serial No. 266,303. PUBLISHED AUGUST 28, 1928. Class 22.

249,249. WARM-AIR REGISTERS, COLD-AIR GRATINGS, AND VENTILATING GRILLES. STURDY MANUFACTURING CO., Elkart, Ind.
Filed May 11, 1928. Serial No. 266,282. PUBLISHED SEPTEMBER 4, 1928. Class 34.

249,250. HIGH AND LOW HEELED WOMEN'S NOVELTY FOOTWEAR CONSISTING OF STRAPS, PUMPS, AND TIES CONSTRUCTED OF LEATHER, FABRIC, AND STRAW. GROVES SHOE COMPANY, Chicago, Ill.
Filed May 11, 1928. Serial No. 266,245. PUBLISHED AUGUST 7, 1928. Class 39.

249,251. WATCH AND CLOCK SPRINGS, HAIRSPRINGS, AND HANDS; CLOCKS AND WATCHES AND PARTS THEREOF—VIZ, RATCHETS, BRIDGES, BARRELS, BALANCE STONES, PALLET STONES, STEMS, SCREWS, AND JEWELS FOR PIVOTS. EMILE GEISER, successeur de Charles Robert, La Chaux-de-Fonds, Switzerland.
Filed May 9, 1928. Serial No. 266,169. PUBLISHED AUGUST 28, 1928. Class 27.

249,252. WINE TO WHICH SALT HAS BEEN ADDED USED AS A SEASONING FOR SAUCES AND AS FLAVORING FOR MEATS. VAI BROS., doing business as California Medicinal Wine Co., Los Angeles, Calif.
Filed May 9, 1928. Serial No. 266,158. PUBLISHED AUGUST 28, 1928. Class 46.





249,253. COTTON SHEETINGS. GLENWOOD COTTON MILLS, Easley, S. C.
Filed May 8, 1928. Serial No. 266,084. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,254. CIGARS AND CIGARETTES. THE SAVARINS, INC., New York, N. Y.
Filed May 7, 1928. Serial No. 266,050. PUBLISHED SEPTEMBER 4, 1928. Class 17.

249,255. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS AND BOYS' BLOUSES. ELDER MFG. CO., St. Louis, Mo.
Filed June 21, 1928. Serial No. 268,431. PUBLISHED AUGUST 21, 1928. Class 39.

249,256. COMPOUNDS FOR PROCESSING AND TANNING LEATHER. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed June 21, 1928. Serial No. 268,441. PUBLISHED AUGUST 14, 1928. Class 6.

249,257. SANITARY NAPKINS. BERKELEY COMPANY, Chicago, Ill.
Filed June 22, 1928. Serial No. 268,479. PUBLISHED AUGUST 21, 1928. Class 44.

249,258. ELECTRICAL APPARATUS AND MACHINES, PARTICULARLY ROTORS AND ARMATURES USED IN ITS ELECTRICALLY-OPERATED MACHINES, INCLUDING PORTABLE OR HAND-OPERATED ELECTRICAL TOOLS. CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y.
Filed June 22, 1928. Serial No. 268,481. PUBLISHED AUGUST 28, 1928. Class 21.

249,259. CERTAIN LISTED TOYS AND SPORTING GOODS. STERN BROTHERS, New York, N. Y.
Filed June 23, 1928. Serial No. 268,565. PUBLISHED AUGUST 28, 1928. Class 22.

249,260. PREPARATION FOR THE TREATMENT OF HEMORRHOIDS. HART DRUG CORPORATION, Miami, Fla.
Filed June 23, 1928. Serial No. 268,541. PUBLISHED AUGUST 21, 1928. Class 6.

249,261. CERTAIN LISTED GAMES, TOYS, AND SPORTING GOODS. STERN BROTHERS, New York, N. Y.
Filed June 23, 1928. Serial No. 268,566. PUBLISHED AUGUST 28, 1928. Class 22.

249,262. HATS FOR USE BY MEN, WOMEN, BOYS, AND CHILDREN. SUPERIOR HAT CO., St. Louis, Mo.
Filed June 13, 1928. Serial No. 268,004. PUBLISHED AUGUST 7, 1928. Class 39.

249,263. MEDICINES FOR TREATING ACIDOSIS, INDIGESTION, CONSTIPATION, EXCESS OF ACIDS IN THE STOMACH, BLOOD, AND URINE, AND AILMENTS OF THE DIGESTIVE TRACT AND LIKE DISORDERS. W. & H. WALKER, INC., doing business as Health Laboratories, Pittsburgh, Pa.
Filed June 13, 1928. Serial No. 268,009. PUBLISHED AUGUST 28, 1928. Class 6.

249,264. POP CORN, RAW AND POPPED, AND POPCORN SEASONING. WALTER E. HUGO, Hammond, Ind.
Filed June 14, 1928. Serial No. 268,040. PUBLISHED AUGUST 28, 1928. Class 46.

249,265. BLUE-PRINTING APPARATUS. SOUTHGATE L. LOHMAN, doing business as The Cyano-Art Co., Norfolk, Va.
Filed June 14, 1928. Serial No. 268,045. PUBLISHED SEPTEMBER 4, 1928. Class 26.

249,266. MALT SYRUP. LEWIS MORRIS, doing business as Miami Malt Company, Miami, Fla.
Filed June 14, 1928. Serial No. 268,053. PUBLISHED AUGUST 28, 1928. Class 46.

249,267. CORSETS, BRASSIÈRES, AND CORSETLIKE UNDERGARMENTS. MOLLIE MAYERS, INC., New York, N. Y.
Filed June 15, 1928. Serial No. 268,108. PUBLISHED AUGUST 7, 1928. Class 39.

249,268. SANITARY NAPKINS AND RUBBER PROTECTORS. AGNES L. VIERRA, Salinas, Calif.
Filed June 15, 1928. Serial No. 268,126. PUBLISHED AUGUST 28, 1928. Class 44.

249,269. PAINTS, ENAMELS, AND LACQUERS. ATLANTIC CHEMICAL COMPANY, Irvington, N. J.
Filed June 16, 1928. Serial No. 268,133. PUBLISHED AUGUST 28, 1928. Class 16.

249,270. PLASTIC PREPARATIONS FOR MAKING DENTURES. THE DENTAL MANUFACTURING COMPANY LIMITED, London, England.
Filed June 16, 1928. Serial No. 268,148. PUBLISHED AUGUST 28, 1928. Class 44.

249,271. CANNED FRUITS, DRIED FRUITS, AND CANNED VEGETABLES. LANDAUER & CO., London, England.
Filed May 25, 1928. Serial No. 266,999. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,272. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. PIERRE DE LA MONTANYA, doing business as Alta Vista Company, San Francisco, Calif.
Filed May 25, 1928. Serial No. 266,980. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,273. MEDICINAL PREPARATION CONTAINING VITAMIN D USED FOR THE TREATMENT OF RICKETS AND ALL OTHER CONDITIONS ARISING FROM VITAMIN D DEFICIENCY. THE BRITISH DRUG HOUSES, LIMITED, London, England.
Filed May 25, 1928. Serial No. 266,972. PUBLISHED AUGUST 21, 1928. Class 6.

249,274. MEDICAMENT FOR THE RELIEF OF AFTER-PAIN AND SORENESS. RALPH B. WAITE, doing business as the Antidolor Mfg. Co., Springville, N. Y.
Filed May 24, 1928. Serial No. 266,960. PUBLISHED AUGUST 28, 1928. Class 6.

249,275. PREPARATION FOR THE TREATMENT OF COUGHS, COLDS, AND PULMONARY DISEASES. JOHN F. DEARMITT, Florence, Ariz.
Filed May 24, 1928. Serial No. 266,918. PUBLISHED AUGUST 28, 1928. Class 6.

249,276. LINIMENT FOR HUMAN USE FOR SPRAINED AND INJURED MUSCLES, LIGAMENTS, AND TENDONS. TROY CHEMICAL CO., INC., Binghamton, N. Y.
Filed May 23, 1928. Serial No. 266,899. PUBLISHED AUGUST 14, 1928. Class 6.

249,277. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. C. B. SLATER COMPANY, South Braintree, Mass.
Filed May 23, 1928. Serial No. 266,893. PUBLISHED AUGUST 7, 1928. Class 39.

249,278. FOOD COLORS. THE COLORTONE COMPANY, INC., Milwaukee, Wis.
Filed May 23, 1928. Serial No. 266,850. PUBLISHED AUGUST 14, 1928. Class 6.

249,279. ENAMEL PAINT. FRANK W. DUNNE CO., Oakland, Calif.
Filed May 22, 1928. Serial No. 266,796. PUBLISHED AUGUST 28, 1928. Class 16.

249,280. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, AND TANNING PREPARATIONS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed May 22, 1928. Serial No. 266,785. PUBLISHED AUGUST 21, 1928. Class 6.

249,281. AVIATORS' HELMETS. SCULLY BROS. INC., Los Angeles, Calif.
Filed May 21, 1928. Serial No. 266,760. PUBLISHED AUGUST 7, 1928. Class 39.

249,282. PAINT REMOVER. RAYCO PAINT COMPANY, Detroit, Mich.
Filed May 21, 1928. Serial No. 266,751. PUBLISHED AUGUST 21, 1928. Class 16.

249,283. LADIES' AND MISSES' HATS. ALEXANDER RUBIN, San Francisco, Calif.
Filed May 21, 1928. Serial No. 266,757. PUBLISHED AUGUST 21, 1928. Class 39.

249,284. HAT LININGS UNATTACHED TO HATS. THE NATIONAL COMMITTEE ON CORRECT STYLE, INC., Chicago, Ill.
Filed January 14, 1928. Serial No. 260,129. PUBLISHED AUGUST 21, 1928. Class 39.

249,285. LAWN FURNITURE—NAMELY, CHAIRS, SETTEES, TABLES, AND SWINGS. THE KALAMAZOO SLED COMPANY, Kalamazoo, Mich.
Filed January 27, 1928. Serial No. 260,733. PUBLISHED SEPTEMBER 4, 1928. Class 32.

249,286. ABRASIVE GRINDING WHEELS AND ABRASIVE CUTTING WHEELS. REDMANOL CHEMICAL PRODUCTS COMPANY, New York, N. Y.
Filed January 27, 1928. Serial No. 260,749. PUBLISHED AUGUST 28, 1928. Class 4.

249,287. NETTED WOVEN CORD FABRICS OF COTTON. BRIGHTON MILLS, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J.
Filed February 1, 1928. Serial No. 260,979. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,288. ARTIFICIAL-SILK THREAD AND ARTIFICIAL SPINNING FIBERS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main and Berlin, Germany.
Filed February 1, 1928. Serial No. 260,992. PUBLISHED SEPTEMBER 4, 1928. Class 48.

249,289. MEN'S AND BOYS' STRAW HATS. COLUMBIA HAT MANUFACTURING CO. INC., New York, N. Y.
Filed June 10, 1927. Serial No. 250,297. PUBLISHED AUGUST 7, 1928. Class 39.

249,290. MEN'S HATS. CAPLAIN & GOLDMAN, New York, N. Y.
Filed June 13, 1927. Serial No. 250,438. PUBLISHED AUGUST 7, 1928. Class 39.

249,291. MEDICINES FOR TREATMENT OF THE LIVER. TORASABURO KOSEKI, Tokyo, Japan.
Filed June 22, 1927. Serial No. 250,923. PUBLISHED AUGUST 14, 1928. Class 6.

249,292. HAIR POMADE. HAROLD HENDRIE, doing business as Hendrie & Co., Montpelier Station, Va.
Filed July 2, 1927. Serial No. 251,442. PUBLISHED AUGUST 14, 1928. Class 6.

249,293. LINIMENT FOR CUTS, BRUISES, STIFF JOINTS, SPRAINS, SWELLING, RHEUMATISM, COLIC, EARACHE, HEADACHE, STIFF NECK, TONSILITIS, WEAK KIDNEYS, WEAK BACK, SOUR STOMACH, ITCH, AND SKIN IRRITATIONS. CHAPMAN H. SALMONS, Dunlow, W. Va.
Filed July 8, 1927. Serial No. 251,688. PUBLISHED AUGUST 14, 1928. Class 6.

249,294. SMOKING TOBACCO. JOHN COTTON LIMITED, Edinburgh, Scotland.
Filed July 23, 1927. Serial No. 252,471. PUBLISHED SEPTEMBER 4, 1928. Class 17.

249,295. WOMEN'S WEARING APPAREL—NAMELY, COATS, SUITS, DRESSES. THE GOODMAN CLOAK COMPANY, Cleveland, Ohio.
Filed July 30, 1927. Serial No. 252,771. PUBLISHED AUGUST 21, 1928. Class 39.

249,296. PEPPER SAUCE; SAVORY SAUCE FOR USE ON MEATS, FISH, ETC.; WORCESTERSHIRE SAUCE, CHILI CON CARNE. HIRSCH BROS. & CO. INC., Louisville, Ky.
Filed August 20, 1927. Serial No. 253,754. PUBLISHED FEBRUARY 14, 1928. Class 46.

249,297. SEPARABLE GARMENT FASTENERS TOGETHER WITH DRAW STRINGS FOR UNDERGARMENTS AND SHOULDER STRAPS EACH WITH A SEPARABLE GARMENT FASTENER. A. B. A. SPECIALTIES COMPANY, INC., New York, N. Y.
Filed August 27, 1927. Serial No. 254,023. PUBLISHED AUGUST 21, 1928. Class 40.

249,298. KOJI, MOYASHI, DIASTASE, FERMENTS, AND CONVERTING AGENTS. INTERNATIONAL TAKAMINE FERMENT COMPANY, New York, N. Y.
Filed September 13, 1927. Serial No. 254,673. PUBLISHED AUGUST 7, 1928. Class 6.

249,299. STANDARDIZED KNOCKDOWN CABINET, DRAWER, TABLE, CUPBOARD, AND SHELF UNITS USED FOR BUILT-IN KITCHEN FURNITURE. FARLEY & LOETSCHER MFG. CO., Dubuque, Iowa.
Filed September 20, 1927. Serial No. 254,968. PUBLISHED SEPTEMBER 4, 1928. Class 32.

249,300. COFFEE. THE KROGER GROCERY & BAKING COMPANY, Cincinnati, Ohio.
Filed September 23, 1927. Serial No. 255,111. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,301. CERTAIN NAMED FOOTWEAR. JUNIORMODE SHOE CORPORATION, New York, N. Y.
Filed September 27, 1927. Serial No. 255,308. PUBLISHED AUGUST 7, 1928. Class 39.

249,302. CERTAIN NAMED FOOTWEAR. JUNIORMODE SHOE CORPORATION, New York, N. Y.
Filed September 27, 1927. Serial No. 255,309. PUBLISHED AUGUST 7, 1928. Class 39.

249,303. TOILET PREPARATIONS—VIZ, FACE POWDER AND COMPACTS. BOURJOIS, INC., New York, N. Y.
Filed October 22, 1927. Serial No. 256,448. PUBLISHED AUGUST 14, 1928. Class 6.

249,304. MEDICAL PREPARATION TO BE USED FOR COLDS IN THE HEAD AND AS AN APPLICATION TO THE NOSE AND THROAT. OXY-VAPOROL COMPANY, New York, N. Y.
Filed October 27, 1927. Serial No. 256,682. PUBLISHED DECEMBER 13, 1927. Class 6.

249,305. CERTAIN NAMED FOOTWEAR. WOHL SHOE COMPANY, St. Louis, Mo.
Filed October 29, 1927. Serial No. 256,801. PUBLISHED JUNE 12, 1928. Class 39.

249,306. PREPARATION FOR REMOVING SUPERFLUOUS HAIR. CHARLES M. HUDSON, New York, N. Y., assignor to Hudson & Company, Inc., New York, N. Y., a Corporation of New Jersey.
Filed November 2, 1927. Serial No. 256,986. PUBLISHED AUGUST 28, 1928. Class 6.

249,307. LEATHER SHOES. HILL BROS. CO., Hudson, Mass.
Filed June 16, 1928. Serial No. 268,156. PUBLISHED AUGUST 21, 1928. Class 39.

249,308. KEY RINGS, CHAIN FASTENERS, SNAP FASTENERS, SPRING RINGS, TIE CLASPS, LAPEL BUTTONS, BROOCHES, AND CHAIN BARS, ALL OF WHICH ARE MADE OF OR PLATED WITH PRECIOUS METALS; FINGER RINGS, BRACELETS, CHAINS FOR PERSONAL ADORNMENT, CUFF BUTTONS, CUFF LINKS, CHARMS, FOBS, AND PENDANTS. LOUIS STERN COMPANY, Providence, R. I.
Filed June 16, 1928. Serial No. 268,165. PUBLISHED AUGUST 28, 1928. Class 28.

249,309. SALVE FOR TREATING ECZEMA AND SKIN SORES AND SALVE FOR TREATING CHRONIC SORES AND VARICOSE VEINS. PETER L. MAVRELIS, doing business as The Mavreline Company, Waterloo, Iowa.
Filed June 18, 1928. Serial No. 268,282. PUBLISHED AUGUST 21, 1928. Class 6.



249,310. ALIMENTARY PASTE PRODUCTS, ESPECIALLY NOODLES, SPAGHETTI, VERMICELLI, AND MACARONI, PREPARED IN VARIOUS SHAPES AND FORMS. THE PFAFFMAN EGG NOODLE COMPANY, Cleveland, Ohio.
Filed June 18, 1928. Serial No. 268,244. PUBLISHED AUGUST 28, 1928. Class 46.

249,311. SHAVING CREAM OF SAPONACEOUS NATURE. CORINNA INCORPORATED, doing business as Frezo Laboratories, New York, N. Y.
Filed June 19, 1928. Serial No. 268,272. PUBLISHED AUGUST 28, 1928. Class 4.

249,312. POWDER PUFFS. F. TETTER & SONS, Newark, N. J.
Filed June 19, 1928. Serial No. 268,326. PUBLISHED AUGUST 28, 1928. Class 29.

249,313. CANDY. WILLIAM D. ROSE, doing business as Have a Heart Candy Co., Portland, Oreg.
Filed July 11, 1928. Serial No. 269,427. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,314. POWER BRUSHES. UNITED SHOE MACHINERY CORPORATION, Boston, Mass.
Filed July 11, 1928. Serial No. 269,436. PUBLISHED AUGUST 28, 1928. Class 29.

249,315. LIQUID DEODORANT. JOSEPH DYMNICKI, doing business as Dym-Nosmel, New London, Conn.
Filed July 12, 1928. Serial No. 269,449. PUBLISHED AUGUST 28, 1928. Class 6.

249,316. LAUNDRY WASHING MACHINES. OLIVER P. GERENSTREET, doing business as American Device Mfg. Company, Owensville, Mo.
Filed July 12, 1928. Serial No. 269,459. PUBLISHED SEPTEMBER 4, 1928. Class 24.

249,317. FRESH PEARS. SCOBEL & DAY, INC., New York, N. Y.
Filed July 12, 1928. Serial No. 269,486. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,318. SALVE FOR TREATMENT OF CANCER. LUISA BOCCHIO, doing business as Louisa Bocchio & Co., Garfield, N. J.
Filed July 13, 1928. Serial No. 269,507. PUBLISHED AUGUST 21, 1928. Class 6.

249,319. OINTMENT FOR WOUNDS, FRESH AND OLD SORES, ABRASIONS, CUTS, BURNS, BITES, STINGS OF INSECTS, PILES OR HEMORRHOIDS, ULCERS, ECZEMA, SALT RHEUM, ITCH, RINGWORM, SCALD HEAD, AND ALL SKIN DISEASES. JOHN WASKIEWICZ, doing business as Wakie Products Corporation, Bloomfield, N. J.
Filed July 12, 1928. Serial No. 269,538. PUBLISHED AUGUST 21, 1928. Class 6.

249,320. ETHYL ACETATE, BUTYL ACETATE, AMYL ACETATE, NITROCELLULOSE SOLUTIONS, AND METHANOL. PUBLICKER INCORPORATED, Philadelphia, Pa.
Filed July 13, 1928. Serial No. 269,549. PUBLISHED AUGUST 21, 1928. Class 6.

249,321. SPUN RAYON YARN. THOMAS H. BARKER'S SONS COMPANY, Gladwyne, Pa.
Filed July 14, 1928. Serial No. 269,572. PUBLISHED SEPTEMBER 4, 1928. Class 48.

249,322. CANNED VEGETABLES—NAMELY, BAMBOO SPROUTS. PACIFIC TRADING CO., INC., San Francisco, Calif.
Filed July 17, 1928. Serial No. 269,743. PUBLISHED AUGUST 28, 1928. Class 46.

249,323. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. HEKELNKAMPES BROS., Atchison, Kans.
Filed July 18, 1928. Serial No. 269,782. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,324. GINGER ALE. OLD HAMPSHIRE, INC., New York, N. Y.
Filed July 20, 1928. Serial No. 269,905. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,325. NUISANCE-PREVENTING LIQUID SPRAY. SAMUEL S. ROSEN, doing business as Guarantee Exterminating Company, New York, N. Y.
Filed July 20, 1928. Serial No. 269,917. PUBLISHED AUGUST 28, 1928. Class 6.

249,326. INSECTICIDES. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill.
Filed July 21, 1928. Serial No. 269,928. PUBLISHED AUGUST 28, 1928. Class 6.

249,327. LIQUID CITRUS PECTIN FOR MAKING JAMS AND JELLIES, FLAVORED AND UNFLAVORED. ALEXANDER MOLASSES COMPANY, Cincinnati, Ohio.
Filed July 21, 1928. Serial No. 269,930. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,328. FRESH GRAPES. CHARLES GLAZE, Exeter, Calif.
Filed July 21, 1928. Serial No. 269,953. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,329. FRESH ORANGES, FRESH LEMONS, AND FRESH GRAPEFRUIT. KLINK CITRUS ASSOCIATION, Klink, Calif.
Filed July 21, 1928. Serial No. 269,961. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,330. CANNED FRUITS. NATIONAL FRUIT CANNING CO., Seattle, Wash.
Filed July 21, 1928. Serial No. 269,972. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,331. CANNED FISH. SERGHANT-PAUP COMPANY, Seattle, Wash.
Filed July 21, 1928. Serial No. 269,991. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,332. FRESH APPLES. YAKIMA FRUIT EXCHANGE, Yakima, Wash.
Filed July 21, 1928. Serial No. 270,002. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,333. SEWING MACHINES, FELLING MACHINES, DYEING MACHINERY, BLEACHING AND SCOURING MACHINES; VATS, TROUGHS, AND TANKS EQUIPPED WITH CRUTCHERS OR OTHER MACHINERY; AND TRESSELS BUILT INTO ANY OF THE AFORESAID MACHINERY. ISAAC BRAITHWAITE & SON, ENGINEERS, LIMITED, Kendal, England.
Filed July 23, 1928. Serial No. 270,009. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,334. COTTON PIECE GOODS. WEEKS, SAWYER & CO., New York, N. Y.
Filed July 24, 1928. Serial No. 270,103. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,335. FRESH CITRUS FRUITS. IRVINE VALENCIA GROWERS, Irvine, Calif.
Filed July 25, 1928. Serial No. 270,128. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,336. FRESH CITRUS FRUITS AND FRESH DECIDUOUS FRUITS. MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif.
Filed July 25, 1928. Serial No. 270,139. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,337. TWO-PLY COTTON-YARN MARQUISETTE. WARWICK MILLS, West Warwick, R. I., and Boston, Mass.
Filed September 19, 1928. Serial No. 272,683. Class 42.

249,338. TWO-PLY COTTON-YARN MARQUISETTE. WARWICK MILLS, West Warwick, R. I., and Boston, Mass.
Filed September 19, 1928. Serial No. 272,684. Class 42.

249,339. FROZEN EGGS. TITMAN EGG CORPORATION, New York, N. Y.
Filed September 21, 1928. Serial No. 272,776. Class 46.

249,340. SCREW DRIVERS. THE TORRIN TOOL COMPANY, Plantsville, Southington, Conn.
Filed July 2, 1928. Serial No. 269,006. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,341. SWEETENING COMPOUND FOR USE AS A SUBSTITUTE FOR SUGAR AND A COMPOUND OF CHOCOLATE AND MALT FOR USE IN PREPARATION OF FOODS AND BEVERAGES. KASKO PRODUCTS COMPANY, INC., Philadelphia, Pa.
Filed March 13, 1928. Serial No. 263,091. PUBLISHED AUGUST 28, 1928. Class 46.

249,342. CHEMICAL PREPARATION HAVING A BENEFICIAL EFFECT UPON THE HAIR BY THE EXTERMINATION OF DANDRUFF. OVIDIO D. FUSCO, Brooklyn, N. Y.
Filed March 14, 1928. Serial No. 263,119. PUBLISHED AUGUST 14, 1928. Class 6.

249,343. PERFUMES, TOILET WATERS, FACE POWDER, TALCUM POWDER, BATH POWDER, AND BATH SALTS. PARFUMS LIONCEAU, INC., New York, N. Y.
Filed March 26, 1928. Serial No. 263,786. PUBLISHED AUGUST 21, 1928. Class 6.

249,344. AMMONIUM SULPHATE FERTILIZER. FORD MOTOR COMPANY, Fordson, Mich.
Filed June 25, 1928. Serial No. 268,594. PUBLISHED SEPTEMBER 4, 1928. Class 10.

249,345. LOCKS, IGNITION SWITCH LOCKS, AND KEYS. FORD MOTOR COMPANY, Fordson, Mich.
Filed June 25, 1928. Serial No. 268,596. PUBLISHED SEPTEMBER 4, 1928. Class 25.

249,346. TOMATO CATSUP AND PICKLES. THE J. WELLER COMPANY, Oak Harbor, Ohio.
Filed July 3, 1928. Serial No. 269,060. PUBLISHED AUGUST 28, 1928. Class 46.

249,347. ABSORBENT COTTON. AUERBACH COMPANY, Salt Lake City, Utah.
Filed July 5, 1928. Serial No. 269,078. PUBLISHED AUGUST 28, 1928. Class 44.

249,348. MEDICINAL TONIC HAVING A WINE BASE. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif.
Filed July 5, 1928. Serial No. 269,098. PUBLISHED AUGUST 28, 1928. Class 6.

249,349. WINES. P. DE LA MONTANYA, doing business as Mount Rouge Company, San Francisco, Calif.
Filed July 5, 1928. Serial No. 269,100. PUBLISHED SEPTEMBER 4, 1928. Class 47.

249,350. NONALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. DORADO CLUB BEVERAGE COMPANY, Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,101. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,351. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, ETC. THE FRIES & FRIES CO., doing business as Golden Mist Laboratories and Golden Mist Parfumerie, Cincinnati, Ohio.
Filed July 5, 1928. Serial No. 269,108. PUBLISHED AUGUST 28, 1928. Class 6.

249,352. PIECE GOODS FOR LINING MADE OF COTTON OR SILK. HAHLO & SOLOMON, INC., New York, N. Y.
Filed July 5, 1928. Serial No. 269,117. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,353. COTTON AND LINEN PIECE GOODS. BERTH ROBERT-GROSS INC., New York, N. Y.
Filed July 7, 1928. Serial No. 269,218. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,354. GEARS AND PINIONS. BOSTON GEAR WORKS, INC., Norfolk Downs (Quincy), Mass.
Filed July 7, 1928. Serial No. 269,221. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,355. RAILWAY-TRUCK BOLSTERS, TRUCK SIDE FRAMES, AND SPRING PLANKS. THE BUCKEYE STEEL CASTINGS COMPANY, Columbus, Ohio.
Filed July 7, 1928. Serial No. 269,222. PUBLISHED SEPTEMBER 4, 1928. Class 19.

249,356. FRESH FRUITS. EARL FRUIT COMPANY, San Francisco, Calif.
Filed July 7, 1928. Serial No. 269,226. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,357. GLACÉ PINEAPPLE AND PINEAPPLE CONFECTIONS, MID-PACIFIC CANDY COMPANY, LIMITED, Honolulu, Territory of Hawaii.
Filed July 7, 1928. Serial No. 269,245. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,358. CANNED FRUITS AND CANNED VEGETABLES, AND APRICOT BUTTER. PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif.
Filed July 7, 1928. Serial No. 269,255. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,359. CANNED FRUITS AND CANNED VEGETABLES, AND APRICOT BUTTER. PRATT-LOW PRESERVING COMPANY, Santa Clara, Calif.
Filed July 7, 1928. Serial No. 269,256. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,360. FOOD PRESERVATIVES. CHR. BERTRAM, Stendal, Germany.
Filed July 9, 1928. Serial No. 269,279. PUBLISHED AUGUST 28, 1928. Class 6.

249,361. TATTOOING DEVICE FOR MARKING POULTRY AND OTHER LIVESTOCK WITH INDELIBLE INK. MISSOURI AGRICULTURAL PUBLISHING COMPANY, St. Louis, Mo.
Filed July 9, 1928. Serial No. 269,305. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,362. FLAT-FINISH PAINT FOR INSIDE WALLS. THE SMITH-ALSOP PAINT AND VARNISH COMPANY, INC., Terre Haute, Ind.
Filed July 9, 1928. Serial No. 269,328. PUBLISHED AUGUST 28, 1928. Class 16.

249,363. HEADACHE REMEDIES. LILLIAN N. FISHEL, doing business as Kwickrid Remedy Company, New York, N. Y.
Filed July 10, 1928. Serial No. 269,348. PUBLISHED AUGUST 28, 1928. Class 6.

249,364. STABLE SOLUTION OF ALKALI HYPOIODITE IN ORGANIC MEDIUM FOR ORAL, INTRAMUSCULAR, INTRAVENOUS, AND EXTERNAL USE. THE FARASTAN COMPANY, Ardmore, Pa.
Filed July 11, 1928. Serial No. 269,400. PUBLISHED AUGUST 28, 1928. Class 6.

249,365. LIQUID DISINFECTANT AND DEODORANT PREPARATION. IRVING MCEWEN, Omaha, Nebr.
Filed July 11, 1928. Serial No. 269,415. PUBLISHED AUGUST 21, 1928. Class 6.

249,366. LAXATIVE PREPARATION HAVING A CHOLAGOGUE ACTION AS WELL AS STIMULATING THE HEPATIC FUNCTIONS. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed November 3, 1927. Serial No. 257,040. PUBLISHED AUGUST 28, 1928. Class 6.

249,367. GLASSWARE AND DECORATIVE GLASSWARE. SKINNER-HILL CO., INC., New York, N. Y.
Filed November 5, 1927. Serial No. 257,124. PUBLISHED SEPTEMBER 4, 1928. Class 33.

249,368. PEARL BUTTONS. RED STAR MFG. CO. INC., San Juan, Porto Rico, and New York, N. Y.
Filed November 17, 1927. Serial No. 257,704. PUBLISHED AUGUST 21, 1928. Class 40.

249,369. MEDICINAL PREPARATION FOR TREATING COLDS, INFLUENZA, LA GRIPPE, CHILLS, FEVER, MALARIAL FEVER, BILIOUS HEADACHE, AND LOSS OF APPETITE. BROWN REMEDY CO., INC., Warsaw, N. C.
Filed November 19, 1927. Serial No. 257,782. PUBLISHED AUGUST 21, 1928. Class 6.

249,370. LIQUID BEAUTIFIER. JOSEPH WILLICOMBE, New York, N. Y., assignor to Voila, Inc., New York, N. Y., a Corporation of New York.
Filed November 22, 1927. Serial 257,948. PUBLISHED JULY 10, 1928. Class 6.



249,371. LEATHER SOLES, TAPS, TAP SOLES, OR HALF SOLES. PENN LEATHER CO., Philadelphia, Pa.
Filed December 1, 1927. Serial No. 258,284. PUBLISHED AUGUST 7, 1928. Class 39.

249,372. LEATHER GLOVES. PHILLIP GIRSON, doing business as Phillip Girson & Co., Chicago, Ill.
Filed December 9, 1927. Serial No. 258,708. PUBLISHED AUGUST 7, 1928. Class 39.

249,373. METAL POLISHES, SWEEPING COMPOUNDS, AND PINE-OIL CLEANSERS CONTAINING PINE OIL, ALKALI, AND ROSIN, NOT A SOAP. JOHN C. P. HELM, doing business as Helm Laboratories, New Orleans, La.
Filed December 13, 1927. Serial No. 258,870. PUBLISHED AUGUST 28, 1928. Class 4.

249,374. CHILDREN'S COWBOY PLAY SUITS, INCLUDING SUCH ACCESSORIES AS CHAPS, VESTS, CUFFS, AND SHIRTS. ROSCOE F. WARREN, Los Angeles, Calif.
Filed December 15, 1927. Serial No. 258,971. PUBLISHED AUGUST 21, 1928. Class 39.

249,375. ANTISEPTIC. DYKON PRODUCTS COMPANY, Eugene, Oreg.
Filed December 17, 1927. Serial No. 259,054. PUBLISHED AUGUST 14, 1928. Class 6.

249,376. HAIR TONIC, VANISHING CREAM, AND COLD CREAM. ENASSIE PIPPEN, Pontiac, Mich.
Filed December 17, 1927. Serial No. 259,072. PUBLISHED AUGUST 14, 1928. Class 6.

249,377. MUSTARD. JOHN J. KERN, doing business as John J. Kern & Co., Chicago, Ill.
Filed December 21, 1927. Serial No. 259,212. PUBLISHED AUGUST 28, 1928. Class 46.

249,378. BLADE HOLDERS AND MECHANICAL STROPPING DEVICES FOR SAFETY-RAZOR BLADES. JOSEPH R. TORREY and BELLE M. TORREY, doing business as J. R. Torrey & Company, administrators under the will of Lewis H. Torrey, Worcester, Mass.
Filed December 21, 1927. Serial No. 259,226. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,379. ELECTRICAL SPOTLIGHTS. NATIONAL ACCESSORIES CORPORATION, Los Angeles, Calif.
Filed December 28, 1927. Serial No. 259,415. PUBLISHED AUGUST 28, 1928. Class 21.

249,380. SHOES OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS OF SUCH MATERIALS. CHARLES A. EATON COMPANY, Brockton, Mass.
Filed December 30, 1927. Serial No. 259,484. PUBLISHED AUGUST 7, 1928. Class 39.

249,381. TONIC FOR BIRDS AND A PREPARATION FOR LOSS OF VOICE, HOARSENESS, COLDS, AND SHEDDING OF FEATHERS OUT OF SEASON. CHRISTOPHER H. CONLEY, doing business as Conley's Bird Supply House, Fort Wayne, Ind.
Filed January 3, 1928. Serial No. 259,622. PUBLISHED AUGUST 28, 1928. Class 6.

249,382. PAPER FOR STATIONERY USE FOR BUSINESS FORMS PRINTED WITH STANDARD BUSINESS INK AND ALSO PRINTED WITH DUPLICATING-MACHINE OR HECTOGRAPH INK AND FOR USE IN RUNNING DUPLICATING-MACHINE COPIES FROM TYPEWRITTEN ORIGINALS AND DUPLICATING-MACHINE OR HECTOGRAPH ORIGINALS. DITTO, INCORPORATED, Chicago, Ill.
Filed January 3, 1928. Serial No. 259,624. PUBLISHED AUGUST 28, 1928. Class 37.

249,383. GIRLS' COATS. EMANUEL LOBEL, New York, N. Y.
Filed January 9, 1928. Serial No. 259,859. PUBLISHED JULY 31, 1928. Class 39.

249,384. LINOLEUM AND OILCLOTH FLOOR COVERING AND FELT-BASE FLOOR COVERING. BON A FIDE PRODUCTS CORPORATION, New York and Brooklyn, N. Y.
Filed January 10, 1928. Serial No. 259,893. PUBLISHED SEPTEMBER 4, 1928. Class 20.

249,385. MIDDLINGS. BERNET, CRAFT & KAUFFMAN MILLING COMPANY, St. Louis, Mo.
Filed August 1, 1927. Serial No. 252,816. PUBLISHED MAY 15, 1928. Class 46.

249,386. MEDICINAL PREPARATION FOR THE RELIEF AND TREATMENT OF TUBERCULOSIS. JOSEPH P. MARANTO, Brooklyn, Md.
Filed June 25, 1928. Serial No. 268,618. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,387. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS ALL OF PRECIOUS METAL. PHI MU FRATERNITY, Chicago, Ill.
Filed June 25, 1928. Serial No. 268,630. PUBLISHED AUGUST 28, 1928. Class 28.

249,388. MANUFACTURED JEWELRY—NAMELY, FINGER RINGS AND BROOCHES. SEMUEL SEMENOFF, New York, N. Y.
Filed June 25, 1928. Serial No. 268,637. PUBLISHED AUGUST 28, 1928. Class 28.

249,389. HOSIERY. RICHMOND HOSIERY MILLS, Rossville, Ga.
Filed June 26, 1928. Serial No. 268,704. PUBLISHED AUGUST 21, 1928. Class 39.

249,390. HAIR TONIC. ERNST SCHAUFLER, Reutlingen, Germany.
Filed June 26, 1928. Serial No. 268,705. PUBLISHED AUGUST 28, 1928. Class 6.

249,391. SODIUM-P. TOLUENESULFOCHLORAMIDE, ETC. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany.
Filed June 27, 1928. Serial No. 268,729. PUBLISHED AUGUST 28, 1928. Class 6.

249,392. HOSIERY. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn.
Filed June 27, 1928. Serial No. 268,744. PUBLISHED AUGUST 21, 1928. Class 39.

249,393. CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, EGG NOODLES, BUCKWHEAT FLOUR, RICE, CANNED FISH, CANNED BAKED BEANS, BROWN BREAD, MOLASSES, CANNED CHICKEN, CANNED FRUIT PRESERVES, JELLIES, PICKLE RELISH, TOMATO CATSUP, OLIVES, VINEGAR, COCKTAIL SAUCE, CHILI SAUCE, OLIVE OIL, PICKLES, CANE AND MAPLE SYRUP, PEANUT BUTTER, HONEY, AND MUSTARD. BROWNELL & FIELD CO., Providence, R. I.
Filed June 28, 1928. Serial No. 268,767. PUBLISHED AUGUST 28, 1928. Class 46.

249,394. PREPARATION FOR TREATMENT OF RHEUMATISM, NEURALGIA, GOUT, AND SCIATICA. CAVENDISH CHEMICAL CORP., New York, N. Y.
Filed June 28, 1928. Serial No. 268,769. PUBLISHED AUGUST 28, 1928. Class 6.

249,395. COMBINATION VEHICLE STOP AND TAIL LAMPS. INDIANA LAMP CORPORATION, Connersville, Ind.
Filed June 28, 1928. Serial No. 268,787. PUBLISHED AUGUST 28, 1928. Class 21.

249,396. PREPARATION TO STOP RUNS IN HOSIERY. QUIX INC., New York, N. Y.
Filed June 28, 1928. Serial No. 268,811. PUBLISHED AUGUST 14, 1928. Class 6.

249,397. CANDY AND PEANUT BUTTER. MOBILE GROCERY COMPANY, also operating as Southern Products Co., Mobile, Ala.
Filed June 29, 1928. Serial No. 268,876. PUBLISHED AUGUST 28, 1928. Class 46.

249,398. DRY-CLEANING COMPOSITION FOR FABRICS, FURS, AND FELTS. ANNETTE R. JENNINGS, doing business as Annette's Perfect Cleanser Co., Boston, Mass.
Filed June 30, 1928. Serial No. 268,927. PUBLISHED AUGUST 28, 1928. Class 4.

249,399. COTTON VELVETEENS IN THE PIECE. ALFRED LOUIS, Piccadilly, Manchester, England.
Filed June 15, 1928. Serial No. 268,072. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,400. CARTOONS. BENJAMIN FRANKLIN HAMMOND, Wichita, Kans.
Filed June 15, 1928. Serial No. 268,096. PUBLISHED AUGUST 28, 1928. Class 38.

249,401. METALLIC DISC PHONOGRAPH RECORDS. SPEAK-O-PHONE INCORPORATED, New York, N. Y.
Filed June 19, 1928. Serial No. 268,821. PUBLISHED AUGUST 28, 1928. Class 36.

249,402. HUMIDIFYING MACHINES AND DEVICES AND HUMIDIFYING SYSTEMS FOR HEATING, VENTILATING, OR AIR CONDITIONING, AND PARTS THEREOF. MIDWEST STEEL & SUPPLY COMPANY, INC., New York, N. Y., and Bradford, Pa.
Filed June 15, 1928. Serial No. 268,107. PUBLISHED SEPTEMBER 4, 1928. Class 34.

249,403. FRATERNITY PINS AND PENDANTS, ALL MADE OF OR PLATED WITH PRECIOUS METAL. THE EXECUTIVE COUNCIL OF THE ALPHA DELTA PHI FRATERNITY, New York, N. Y.
Filed March 19, 1928. Serial No. 263,382. PUBLISHED AUGUST 28, 1928. Class 28.

249,404. GENERAL HOUSEHOLD CLEANER CONSISTING OF 99% PURE TRISODIUM PHOSPHATE. ROLLAND FRANCIS HATFIELD, Sr., doing business as Ro-Hel-Gen Products Co., Not Inc., Cicero, Ill.
Filed March 19, 1928. Serial No. 263,395. PUBLISHED AUGUST 28, 1928. Class 4.

249,405. NONPRECIOUS-METAL BUTTONS. UNIVERSAL BUTTON FASTENING & BUTTON COMPANY, Detroit, Mich.
Filed March 19, 1928. Serial No. 263,448. PUBLISHED JULY 24, 1928. Class 40.

249,406. SUSPENDERS, BELTS IN THE NATURE OF GARMENT SUPPORTERS OR FOR OUTER WEAR, AND STOCKING SUPPORTERS. JOHN E. ROSS CO. INC., New York, N. Y.
Filed March 21, 1928. Serial No. 263,562. PUBLISHED AUGUST 21, 1928. Class 39.

249,407. MEN'S, WOMEN'S, YOUTHS', AND BOYS' SPORT JACKETS AND COATS AND WEATHERPROOF JACKETS AND COATS. S. LIEBOVITZ & SONS, INC., New York, N. Y.
Filed March 22, 1928. Serial No. 263,611. PUBLISHED AUGUST 21, 1928. Class 39.

249,408. MEN'S, WOMEN'S, YOUTHS', AND BOYS' SPORT JACKETS AND COATS AND WEATHERPROOF JACKETS AND COATS. S. LIEBOVITZ & SONS, New York, N. Y.
Filed March 22, 1928. Serial No. 263,612. PUBLISHED AUGUST 21, 1928. Class 39.

249,409. COLLARS FOR WEAR. BRYCE & WESTON LIMITED, London, England.
Filed March 26, 1928. Serial No. 263,748. PUBLISHED AUGUST 21, 1928. Class 39.

249,410. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed March 28, 1928. Serial No. 263,872. PUBLISHED AUGUST 21, 1928. Class 39.

249,411. FINGER RINGS. S. WECHTER COMPANY, Chicago, Ill.
Filed March 28, 1928. Serial No. 263,906. PUBLISHED JULY 17, 1928. Class 28.

249,412. LEATHER BOOTS AND SHOES. G. R. KINNEY CO., INC., New York, N. Y., assignor to The Educator Shoe Corporation of America, New York, N. Y., a Corporation of Delaware.
Filed March 29, 1928. Serial No. 263,954. PUBLISHED AUGUST 21, 1928. Class 39.

249,413. STOCKINGS, RUBBER OVERSHOES, GAITERS, HEEL CUSHIONS, HEEL PADS, SHOES, SANDALS, AND BOOTS OF LEATHER AND FABRIC AND COMBINATIONS OF THESE MATERIALS. SHOECRAFT SHOP INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,990. PUBLISHED AUGUST 21, 1928. Class 39.

249,414. MEN'S AND BOYS' OVERCOATS AND SUITS COMPRISING COATS, VESTS, AND TROUSERS. HERO CLOTHING MFG. CO., INC., Philadelphia, Pa.
Filed May 5, 1928. Serial No. 265,964. PUBLISHED AUGUST 21, 1928. Class 39.

249,415. BABBITT METAL. JOHN W. BURGE, Crichton, Ala.
Filed May 5, 1928. Serial No. 265,947. PUBLISHED AUGUST 28, 1928. Class 14.

249,416. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS THEREOF. NORWAY SHOE COMPANY, Norway, Me.
Filed May 4, 1928. Serial No. 265,921. PUBLISHED AUGUST 21, 1928. Class 39.

249,417. ABRASIVE GRINDING AND POLISHING WHEELS. ABRASIVE COMPANY, Philadelphia, Pa.
Filed May 4, 1928. Serial No. 265,875. PUBLISHED AUGUST 7, 1928. Class 4.

249,418. WATERPROOF COATS AND WATERPROOF CAPES FOR MEN AND WOMEN. THE EXPRESS RUBBER CO., LIMITED, London, England.
Filed May 3, 1928. Serial No. 265,834. PUBLISHED AUGUST 28, 1928. Class 39.

249,419. CHEMICAL COMPOUND. OAKITE PRODUCTS, INC., New York, N. Y.
Filed April 30, 1928. Serial No. 265,680. PUBLISHED AUGUST 14, 1928. Class 6.

249,420. CERTAIN-NAMED WEARING APPAREL. STERN BROTHERS, New York, N. Y.
Filed April 28, 1928. Serial No. 265,582. PUBLISHED AUGUST 21, 1928. Class 39.

249,421. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. NATIONAL FRATERNITY OF ALPHA CHI RHO, New York, N. Y.
Filed April 28, 1928. Serial No. 265,556. PUBLISHED AUGUST 28, 1928. Class 28.

249,422. GLASS FOR TIMEPIECES. KOJI KONISHI, Tokyo, Japan.
Filed April 28, 1928. Serial No. 265,549. PUBLISHED SEPTEMBER 4, 1928. Class 33.

249,423. PREPARATION FOR TREATING BLOOD POISONING AND SKIN ERUPTIONS, PREPARATION FOR TREATING GOITRE AND OTHER GLANDULAR AND TISSUE SWELLINGS AND ENLARGEMENTS. WILLIAM R. BRYAN, Altoona, Pa.
Filed April 26, 1928. Serial No. 265,422. PUBLISHED AUGUST 28, 1928. Class 6.

249,424. MEDALLIONS MADE OF FABRIC, LEATHERETTE, OR PAPER FOR SILHOUETTE AND OTHER DECORATIVE PURPOSES. BERTA LAMBERT, White Creek, Wis.
Filed April 25, 1928. Serial No. 265,388. PUBLISHED JULY 31, 1928. Class 40.

249,425. PREPARATION COMPOSED OF CHEMICALS AND OILS FOR USE TO PREVENT RUBBER FROM ADHERING TO MOLDS DURING VULCANIZATION AND TO LESSEN FRICTION BETWEEN INNER AND OUTER TIRE TUBES. B & C CHEMICAL CO., Edgefield, N. J.
Filed April 25, 1928. Serial 265,360. PUBLISHED AUGUST 21, 1928. Class 6.

249,426. MEN'S FELT HATS. F. BERG & COMPANY, Norwalk, Conn.
Filed April 24, 1928. Serial No. 265,313. PUBLISHED AUGUST 21, 1928. Class 39.



249,427. CHROMIUM-TUNGSTEN DIE STEELS. CYCLOPS STEEL COMPANY, INC., Titusville, Pa.
Filed April 20, 1928. Serial No. 265,146. PUBLISHED AUGUST 28, 1928. Class 14.

249,428. CHROMIUM-TUNGSTEN DIE STEELS. CYCLOPS STEEL COMPANY, INC., Titusville, Pa.
Filed April 20, 1928. Serial No. 265,144. PUBLISHED AUGUST 28, 1928. Class 14.

249,429. NONCORROSIVE NONMAGNETIC ALLOY-METAL STEELS. CYCLOPS STEEL COMPANY, INC., Titusville, Pa.
Filed April 20, 1928. Serial No. 265,143. PUBLISHED AUGUST 28, 1928. Class 14.

249,430. AIR-BLAST VENTILATING UNITS CONSISTING OF FAN BLOWER AND DUCTS. G. A. PETERSON, doing business as Peterson "Freezem" Sales Co., Oklahoma City, Okla.
Filed April 17, 1928. Serial No. 265,011. PUBLISHED SEPTEMBER 4, 1928. Class 34.

249,431. COMPACTS. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C.
Filed April 17, 1928. Serial No. 265,008. PUBLISHED AUGUST 14, 1928. Class 6.

249,432. COSMETICS—NAMELY, FACE POWDER AND DUSTING TALCUM POWDER. PEOPLES DRUG STORES, INC., doing business as Moret Parfumeur, Washington, D. C.
Filed April 17, 1928. Serial No. 265,007. PUBLISHED AUGUST 14, 1928. Class 6.

249,433. WALL CALENDARS, WALL MAILING CARDS, AND GREETING CARDS. BROWN & BIGELOW, St. Paul, Minn.
Filed April 2, 1928. Serial No. 264,138. PUBLISHED AUGUST 28, 1928. Class 38.

249,434. MALT SYRUP. J. GOLDSMITH & SONS, New Britain, Conn.
Filed April 5, 1928. Serial No. 264,372. PUBLISHED AUGUST 28, 1928. Class 46.

249,435. BUTTONS OF NONPRECIOUS METAL, BRAIDS, TAPE, AND DRESS SHIELDS. FRED BUTTERFIELD & Co., INC., New York, N. Y.
Filed April 4, 1928. Serial No. 264,285. PUBLISHED JULY 24, 1928. Class 40.

249,436. FUR TRIMMINGS IN THE FORM OF COLLARS, CUFFS, AND STRIPS ADAPTED TO BE ATTACHED TO GARMENTS. J. GOLDWASSER, New York, N. Y.
Filed April 3, 1928. Serial No. 264,229. PUBLISHED AUGUST 21, 1928. Class 40.

249,437. OINTMENT FOR VARICOSE VEINS, PILES, AND FISSURES. ARTHUR H. METCALF, doing business as M-Roid Co., New Haven, Conn.
Filed March 30, 1928. Serial No. 264,037. PUBLISHED AUGUST 28, 1928. Class 6.

249,438. PREPARATION FOR REMOVING TOBACCO AND NICOTINE STAINS FROM THE SKIN. THE NICOTEX COMPANY, New York, N. Y.
Filed June 30, 1928. Serial No. 268,953. PUBLISHED AUGUST 21, 1928. Class 6.

249,439. PREPARATION FOR THE TREATMENT OF THE LIVER. LABORATOIRE DE PHARMACOLOGIE, INC., New York, N. Y.
Filed April 16, 1928. Serial No. 264,891. PUBLISHED AUGUST 28, 1928. Class 6.

249,440. HATS FOR MEN AND BOYS. NEW YORK HAT STORES, INC., Los Angeles, Calif.
Filed April 16, 1928. Serial No. 264,900. PUBLISHED AUGUST 21, 1928. Class 39.

249,441. DEODORANT COMPOUNDS. HENRY J. PRESSINGER, doing business as Klo-Ro-San Company, Detroit, Mich.
Filed June 13, 1928. Serial No. 267,995. PUBLISHED AUGUST 28, 1928. Class 6.



249,442. LIQUIDS FOR CLEANING AUTOMOBILE, STEAM, OR HOT-WATER RADIATORS. LIQUID VENEER CORPORATION, Buffalo, N. Y.
Filed June 13, 1928. Serial No. 267,972. PUBLISHED AUGUST 28, 1928. Class 6.

249,443. LADIES' HATS. JONAS MILLINERY, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,965. PUBLISHED AUGUST 21, 1928. Class 39.

249,444. PERFUME, TOILET WATER, SKIN CREAMS, TOILET POWDER, SKIN LOTIONS, AND BATH SALTS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,921. PUBLISHED AUGUST 14, 1928. Class 6.

249,445. PERFUME, TOILET WATER, SKIN CREAMS, TOILET POWDER, SKIN LOTIONS, AND BATH SALTS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,920. PUBLISHED AUGUST 14, 1928. Class 6.

249,446. PERFUME, TOILET WATER, SKIN CREAMS, TOILET POWDER, SKIN LOTIONS, AND BATH SALTS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,919. PUBLISHED AUGUST 14, 1928. Class 6.

249,447. PERFUME, TOILET WATER, SKIN CREAMS, TOILET POWDER, SKIN LOTIONS, AND BATH SALTS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,918. PUBLISHED AUGUST 14, 1928. Class 6.

249,448. PERFUME, TOILET WATER, SKIN CREAMS, TOILET POWDER, SKIN LOTIONS, AND BATH SALTS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed June 13, 1928. Serial No. 267,917. PUBLISHED AUGUST 14, 1928. Class 6.

249,449. DRAINPIPE SOLVENTS. PORCELA-RADAX CO., Pittsburgh, Pa.
Filed June 12, 1928. Serial No. 267,901. PUBLISHED AUGUST 14, 1928. Class 6.

249,450. OIL-BURNING APPARATUS FOR DOMESTIC AND INDUSTRIAL USE. WAYNE COMPANY, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md., a Corporation of Maryland.
Filed June 11, 1928. Serial No. 267,878. PUBLISHED SEPTEMBER 4, 1928. Class 34.

249,451. TOP. GEORGE F. SPIEL, Chicago, Ill.
Filed June 11, 1928. Serial No. 267,871. PUBLISHED AUGUST 28, 1928. Class 22.

249,452. MEN'S, WOMEN'S, AND CHILDREN'S SHOES COMPOSED WHOLLY OR IN PART OF LEATHER. AULT-WILLIAMSON SHOE CO., Auburn, Me.
Filed June 11, 1928. Serial No. 267,827. PUBLISHED AUGUST 21, 1928. Class 39.

249,453. CALCIUM GUAIACOL SULPHONATE. SWAN-MYERS COMPANY, Indianapolis, Ind.
Filed June 9, 1928. Serial No. 267,809. PUBLISHED AUGUST 14, 1928. Class 6.

249,454. PETROLEUM PRODUCTS—NAMELY, GASOLINE AND LUBRICANTS. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 9, 1928. Serial No. 267,804. PUBLISHED AUGUST 28, 1928. Class 15.

249,455. CLOTHING—NAMELY, SWEATERS AND COATS FOR MEN, WOMEN, AND CHILDREN, HOSIERY, BATH ROBES, AND WOOLEN DRESSES FOR WOMEN AND CHILDREN. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed June 9, 1928. Serial No. 267,790. PUBLISHED AUGUST 21, 1928. Class 39.

249,456. CORSETS, BRASSIÈRES, COMBINED BRASSIÈRES AND CORSETS, CHEMISES, STEP-INS, GARTERS, AND STOCKINGS. NULIFE PATENTS CORPORATION, New York, N. Y.
Filed June 9, 1928. Serial No. 267,786. PUBLISHED AUGUST 21, 1928. Class 39.

249,457. MEN'S AND BOYS' CLOTHING—NAMELY, SUITS, OVERCOATS, TOPCOATS, TROUSERS, AND VESTS; AND MEN'S AND BOYS' FURNISHINGS—NAMELY, DRESS, NEGLIGEE, AND WORK SHIRTS, COLLARS, TIES, UNDERWEAR OF KNITTED AND TEXTILE FABRICS, PAJAMAS, BATH ROBES, AND SOCKS. MARTINS, INC., Brooklyn, N. Y.
Filed June 9, 1928. Serial No. 267,779. PUBLISHED AUGUST 21, 1928. Class 39.

249,458. SHOE LACES. THE JANSZEN COMPANY, Cincinnati, Ohio.
Filed June 9, 1928. Serial No. 267,773. PUBLISHED JULY 24, 1928. Class 40.

249,459. PREPARATION FOR GROWING HAIR. MELVIN JAMES MOLPHUS, West Palm Beach, Fla.
Filed April 7, 1928. Serial No. 264,493. PUBLISHED AUGUST 28, 1928. Class 6.

249,460. BEARINGS FOR MACHINERY. BOHN ALUMINUM & BRASS CORPORATION, Detroit, Mich.
Filed April 14, 1928. Serial No. 264,793. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,461. YOHIMBIN AND OTHER ALKALOID OR GLYCOSID PREPARATIONS WITHOUT OR WITH ADMIXTURES OF HORMONES OR SIMILAR SUBSTANCES FOR ORAL APPLICATION OR SUBCUTANEOUS, PERCUTANEOUS, OR INTRAVENOUS INJECTIONS FOR TREATMENT OF FEMALE DISORDERS. CHEMISCHE FABRIK GÜSTROW DR. HILLRINGHAUS & DR. HEILMANN AKTIENGESELLSCHAFT, Gustrow, Germany.
Filed March 13, 1928. Serial No. 263,072. PUBLISHED AUGUST 14, 1928. Class 6.

249,462. KNIVES, SCISSORS, ETC. J. A. HENCKELS, Solingen, Germany.
Filed March 12, 1928. Serial No. 263,002. PUBLISHED AUGUST 28, 1928. Class 23.

249,463. FACIAL CREAMS. THE PALMOLIVE-PEET COMPANY, Chicago, Ill.
Filed March 7, 1928. Serial No. 262,767. PUBLISHED AUGUST 14, 1928. Class 6.

249,464. MOUTH WASH AND GARGLE. LEO ROSS, doing business as Aseptine Products Company, Brooklyn, N. Y.
Filed March 9, 1928. Serial No. 262,872. PUBLISHED AUGUST 21, 1928. Class 6.

249,465. MEN'S HATS. THE MARNE HAT MANUFACTURING COMPANY, Newark, N. J.
Filed February 25, 1928. Serial No. 262,236. PUBLISHED AUGUST 7, 1928. Class 39.

249,466. SOAPS. THE M & H COMPANY, Cleveland, Ohio.
Filed February 24, 1928. Serial No. 262,171. PUBLISHED AUGUST 28, 1928. Class 4.

249,467. LEATHER SHOES. A. S. KREIDER SHOE MANUFACTURING CO., Elizabethtown, Pa.
Filed February 23, 1928. Serial No. 262,093. PUBLISHED AUGUST 7, 1928. Class 39.

249,468. LIQUID DRY CLEANER (CARBONTETRACHLORID). PURITY CHEMICAL PRODUCTS CO., Santa Rosa, Calif.
Filed February 20, 1928. Serial No. 261,988. PUBLISHED AUGUST 28, 1928. Class 4.

249,469. WOMEN'S AND MISSES' COATS. ISIDOR WEINSTEIN-COATS-INC., New York, N. Y.
Filed February 17, 1928. Serial No. 261,850. PUBLISHED AUGUST 21, 1928. Class 39.

249,470. WOMEN'S, MISSES', AND GIRLS' SANITARY NAPKINS. THE FAIR, Chicago, Ill.
Filed July 2, 1928. Serial No. 268,976. PUBLISHED AUGUST 28, 1928. Class 44.

249,471. CLEANING COMPOUND FOR METALS. COMMUTATOR CLEANSER CO., Brooklyn, N. Y.
Filed July 2, 1928. Serial No. 268,967. PUBLISHED AUGUST 28, 1928. Class 4.

249,472. PHOTOGRAPHIC CAMERAS. ANSCO PHOTOPRODUCTS, INC., Binghamton, N. Y., assignor to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York.
Filed February 3, 1928. Serial No. 261,094. PUBLISHED SEPTEMBER 4, 1928. Class 26.

249,473. CERTAIN NAMED MANICURE AND SURGICAL ARTICLES. J. A. HENCKELS, Solingen, Germany.
Filed July 2, 1928. Serial No. 268,982. PUBLISHED AUGUST 28, 1928. Class 44.

249,474. SUPPOSITORIES. CHARLES S. FREEDMAN, Los Angeles, Calif.
Filed July 2, 1928. Serial No. 268,977. PUBLISHED AUGUST 21, 1928. Class 6.

249,475. LEATHER OR CLOTH TOP SHOES AND PUMPS. THE MENIHAN COMPANY, Rochester, N. Y.
Filed February 14, 1928. Serial No. 261,678. PUBLISHED AUGUST 21, 1928. Class 39.

249,476. ELASTIC WEBBING. CHESTERMAN-LEELAND COMPANY, Philadelphia, Pa.
Filed February 6, 1928. Serial No. 261,239. PUBLISHED AUGUST 7, 1928. Class 40.

249,477. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY AND WOVEN AND KNITTED UNDERWEAR. C. & M. HOSIERY MILLS, INC., Oxford, N. C.
Filed June 9, 1928. Serial No. 267,746. PUBLISHED AUGUST 21, 1928. Class 39.

249,478. MEDICAL PREPARATION—NAMELY, AN INTERNAL LUBRICANT, LAXATIVE, AND ANTACID. MINERALAC LABORATORIES, Brooklyn, N. Y.
Filed June 8, 1928. Serial No. 267,715. PUBLISHED AUGUST 14, 1928. Class 6.

249,479. SHOES MADE OF LEATHER. THE FLORSHEIM SHOE COMPANY, Chicago, Ill.
Filed June 8, 1928. Serial No. 267,704. PUBLISHED AUGUST 21, 1928. Class 39.

249,480. INSECTIFUGES, DEMOTHING AND MOTH-RESISTING COMPOUNDS. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed June 8, 1928. Serial No. 267,687. PUBLISHED AUGUST 14, 1928. Class 6.

249,481. EXTRACT FOR FLAVORING SOFT DRINKS SUCH AS GINGER ALE AND OTHER CARBONATED WATERS. JACOB S. POLEFSKY, New York, N. Y.
Filed June 7, 1928. Serial No. 267,666. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,482. SHIPPING BASKETS. THE MARSHALL MANUFACTURING COMPANY, Marshall, Tex.
Filed June 7, 1928. Serial No. 267,660. PUBLISHED SEPTEMBER 4, 1928. Class 2.

249,483. MEN'S AND BOYS' COATS, VESTS, PANTS, TOPCOATS, AND OVERCOATS OF BOTH WOOLEN AND COTTON CLOTH. HARRY MARKS CLOTHING COMPANY, INC., Richmond, Va.
Filed June 7, 1928. Serial No. 267,654. PUBLISHED AUGUST 21, 1928. Class 39.

249,484. MEN'S, WOMEN'S, AND CHILDREN'S STRAW, PANAMA, AND FELT HATS. BRONSTON BROS. AND CO., INC., New York, N. Y.
Filed June 7, 1928. Serial No. 267,630. PUBLISHED AUGUST 21, 1928. Class 39.

249,485. MEN'S, WOMEN'S, AND CHILDREN'S STRAW AND PANAMA HATS. BRONSTON BROS. AND CO., INC., New York, N. Y.
Filed June 7, 1928. Serial No. 267,620. PUBLISHED AUGUST 21, 1928. Class 39.

249,486. CANNED FISH. AKTIEBOLAGET SVERIGES FÖRENADE KONSERVFABRIKER, Gottenborg, Sweden.
Filed June 7, 1928. Serial No. 267,626. PUBLISHED SEPTEMBER 4, 1928. Class 46.



249,487. SALTS USED IN THE TREATMENT OF DISORDERS OF THE STOMACH, LIVER, AND INTESTINES. LA SALLE MEDICINE COMPANY, Los Angeles, Calif.
Filed June 6, 1928. Serial No. 267,593. PUBLISHED AUGUST 28, 1928. Class 6.

249,488. BUTTONS OF NONPRECIOUS METAL. THE PATENT BUTTON COMPANY, Waterbury, Conn.
Filed June 5, 1928. Serial No. 267,507. PUBLISHED AUGUST 7, 1928. Class 40.

249,489. PREPARATION FOR THE RELIEF OF POISON-IVY AFFECTIONS. FRANCIS X. OSTERMANN, Englewood, N. J.
Filed June 5, 1928. Serial No. 267,504. PUBLISHED AUGUST 21, 1928. Class 6.

249,490. BAIT HOOKS, GUT LEADERS, AND TROUT FLIES. JOHN F. HOWARTH, Colorado Springs and Gunnison, Colo.
Filed June 4, 1928. Serial No. 267,418. PUBLISHED AUGUST 28, 1928. Class 22.

249,491. NORMAL BUTYRIC ALDEHYDE USED IN THE PREPARATION OF RUBBER ACCELERATORS, SYNTHETIC RESINS, BUTYRIC ACID, AND LIKE PRODUCTS. COMMERCIAL SOLVENTS CORPORATION, Terre Haute, Ind.
Filed June 4, 1928. Serial No. 267,407. PUBLISHED AUGUST 14, 1928. Class 6.

249,492. APPARATUS FOR DELIVERING MEASURED QUANTITIES OF LIQUID. SOCIÉTÉ HARDOLL, ETABLISSEMENTS HARIVEAU, DOLIMIER ET RENÉ PORTE & CIE RÉUNIS, Levallois-Perret, France.
Filed June 2, 1928. Serial No. 267,395. PUBLISHED AUGUST 28, 1928. Class 26.

249,493. APPARATUS FOR DELIVERING MEASURED QUANTITIES OF LIQUID. SOCIÉTÉ CARBOX, La Courneuve, France.
Filed June 2, 1928. Serial No. 267,394. PUBLISHED AUGUST 28, 1928. Class 26.

249,494. CIGARS. MICHAEL GREEN, Philadelphia, Pa.
Filed June 2, 1928. Serial No. 267,359. PUBLISHED AUGUST 28, 1928. Class 17.

249,495. MEDICINAL SALVE FOR TREATING BOILS AND SORES. HARVEY BOWMAN, doing business as The Sunolive Home, Maplegien, Pa.
Filed June 2, 1928. Serial No. 267,347. PUBLISHED AUGUST 21, 1928. Class 6.

249,496. SILK PIECE GOODS. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y.
Filed June 1, 1928. Serial No. 267,318. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,497. SILK PIECE GOODS. ARNOLD ROSENFELD SILK CORPORATION, New York, N. Y.
Filed June 1, 1928. Serial No. 267,316. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,498. HINGES, HINGE STRAPS, CORNER IRONS, SHELF BRACKETS, DOOR HANGERS, ENTRANCE-DOOR HANDLES, DOOR PULLS, PUSH BUTTONS, PUSH PLATES, DROP RINGS, DOOR KNOBS, LEVER HANDLES, DOOR KNOCKERS, CABINET KNOBS, SHUTTER STRAPS, SHUTTER DOGS, FOOT SCRAPERS, TROLLEY-TRACK GARAGE-DOOR SETS, FLAT-TRACK GARAGE-DOOR SETS, GARAGE-DOOR HINGE SETS, AND GARAGE-DOOR HOLDERS. MCKINNEY MANUFACTURING COMPANY, Pittsburgh, Pa.
Filed June 1, 1928. Serial No. 267,310. PUBLISHED SEPTEMBER 4, 1928. Class 13.

249,499. WOMEN'S COMBINATION UNDERGARMENTS IN THE NATURE OF CORSETS. THE H. W. GOSSARD CO., now by change of name Associated Apparel Industries, Inc., Chicago, Ill.
Filed May 31, 1928. Serial No. 267,252. PUBLISHED AUGUST 7, 1928. Class 39.

249,500. GAS AND OIL INDUSTRIAL FURNACES AND PARTS THEREFOR—NAMELY, GAS AND OIL BURNING EQUIPMENT—AND FOR GAS AND OIL BURNING APPARATUS ADAPTED FOR USE WITH HOUSE-HEATING FURNACES. THE SURFACE COMBUSTION COMPANY, INC., Toledo, Ohio.
Filed May 29, 1928. Serial No. 267,219. PUBLISHED SEPTEMBER 4, 1928. Class 34.

249,501. PREPARATION FOR REMOVING CARBON FROM INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF AND FOR FREEING RUSTY COHESION OF METALLIC ELEMENTS. N.-D.-N. PRODUCTS CO., Buffalo, N. Y.
Filed May 29, 1928. Serial No. 267,203. PUBLISHED AUGUST 14, 1928. Class 6.

249,502. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed May 29, 1928. Serial No. 267,200. PUBLISHED JULY 24, 1928. Class 40.

249,503. DRESS SHIELDS. I. B. KLEINERT RUBBER COMPANY, New York, N. Y.
Filed May 29, 1928. Serial No. 267,199 PUBLISHED JULY 24, 1928. Class 40.

249,504. MEDICINAL PREPARATIONS AND PRODUCTS. WIDMANN & TEAH, INC., Lock Haven, Pa.
Filed May 28, 1928. Serial No. 267,172. PUBLISHED AUGUST 21, 1928. Class 6.

249,505. MUSIC BOXES. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,162. PUBLISHED AUGUST 28, 1928. Class 36.

249,506. CERTAIN NAMED SHOEHORNS, BUCKLES, FANS, HATPINS, BODKINS, CROCHET NEEDLES, COLLAR BUTTONS, PINCUSHIONS, COMBS, AND HAIRPINS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,160. PUBLISHED AUGUST 28, 1928. Class 40.

249,507. PRINTED BOOKS AND VISITING CARDS, ANNOUNCEMENTS, INVITATIONS, MENUS, GREETING CARDS, CERTIFICATES, COMPLETELY PRINTED OR ENGRAVED DANCE ORDERS AND DIPLOMAS, LABELS UPON WHICH BOOK PLATES HAVE BEEN PRINTED OR ENGRAVED, PROGRAMS, AND WALL CALENDARS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,159. PUBLISHED AUGUST 28, 1928. Class 38.

249,508. CANDLES. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,157. PUBLISHED AUGUST 28, 1928. Class 15.

249,509. HOUSEHOLD FURNITURE—NAMELY, STANDS, HAND MIRRORS, AND SHAVING MIRRORS, TEA TABLES AND TEA WAGONS, BOOK ENDS, CASES AND CHESTS FOR HOLDING AND PROTECTING JEWELRY AND PRECIOUS-METAL WARE, SERVING TRAYS OF WOOD AND GLASS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,154. PUBLISHED SEPTEMBER 4, 1928. Class 32.

249,510. PLAYING CARDS AND CHIPS AND CRIBBAGE BOARDS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,153. PUBLISHED AUGUST 28, 1928. Class 22.

249,511. ELECTRIC LAMPS, CANDELABRA AND CANDLESTICKS, ELECTROLIERS, AND ELECTRIC POCKET LIGHTS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,152. PUBLISHED AUGUST 28, 1928. Class 21.

249,512. CLOTHES BRUSHES, HAIRBRUSHES, POWDER PUFFS, NAIL BRUSHES, AND WHISK BROOMS. TIFFANY & COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,095. PUBLISHED AUGUST 21, 1928. Class 29.

249,513. COMBS MADE OF HARD RUBBER OR PYROXYLIN PLASTIC. THE MOHAWK MERCHANDISE COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,071. PUBLISHED JULY 24, 1928. Class 40.

249,514. POLISH FOR PAINTED, VARNISHED, AND LACQUERED SURFACES. LABORATORY CHEMICALS, INC., Albany, N. Y.
Filed May 26, 1928. Serial No. 267,063. PUBLISHED AUGUST 28, 1928. Class 16.

249,515. SPRAY DEVICES COMPRISING RUBBER TUBING AND ATTACHMENTS DESIGNED TO BE APPLIED TO SPIGOTS AND FAUCETS. INTERSTATE RUBBER COMPANY, New York, N. Y.
Filed May 26, 1928. Serial No. 267,048. PUBLISHED SEPTEMBER 4, 1928. Class 13.

249,516. ELECTRICALLY-OPERATED WINDSHIELD CLEANERS. LE ROY ASKAM, Milford, Conn.
Filer May 26, 1928. Serial No. 267,028. PUBLISHED AUGUST 21, 1928. Class 29.

249,517. CANNED FRUITS AND DRIED FRUITS. LANDAUER & Co., London, England.
Filed May 25, 1928. Serial No. 267,000. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,518. GLAZED OR FRICTION-COATED PAPER USED FOR BOX COVERS. McLAURIN-JONES Co., Brookfield, Mass.
Filed December 7, 1923. Serial No. 189,367. PUBLISHED JUNE 19, 1928. Class 37.

249,519. FUDGE AND NOUGAT. GOLDEN NUGGET SWEETS, San Francisco, Calif.
Filed November 11, 1926. Serial No. 239,928. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,520. MIXTURES OF SOAP AND NA-P. TOLUENESULFOCHLORAMIDE, MIXTURES OF SOAP WITH SODIUM CARBONATE AND NA-P. TOLUENESULFOCHLORAMIDE, MIXTURES OF SOAP WITH SODIUM BICARBONATE AND NA-P. TOLUENESULFOCHLORAMIDE, MIXTURES OF SOAP WITH SODIUM SILICATE AND NA-P. TOLUENESULFOCHLORAMIDE. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor to Heyden Chemical Corporation, Inc., New York, N. Y., a Corporation of New York.
Filed November 12, 1926. Serial No. 239,966. PUBLISHED AUGUST 28, 1928. Class 4.

249,521. POTATO FLAKES, TOMATO CHOWCHOW, DILL RELISH, SWEET TOMATO AND CUCUMBER RELISH AND SOUR TOMATO AND CUCUMBER RELISH, VEGETABLE RELISH, PEANUT BUTTER, SWEET CHOWCHOW, CUCUMBER CHOW, CHOWCHOW, HORSE-RADISH, SPANISH-STYLE MUSTARD, MEXICAN HOT SAUCE AND WAX PEPPERS (PICKLED). KERR PRODUCTS COMPANY, INC., Sacramento, Calif.
Filed January 3, 1927. Serial No. 242,297. PUBLISHED MARCH 8, 1927. Class 46.

249,522. CANNED PIMIENTOS. FRANCISCO MARTIN, New York, N. Y.
Filed January 31, 1927. Serial No. 243,615. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,523. PERFUME. MOHAMMED I. KITCHLEW, Chicago, Ill.
Filed February 23, 1927. Serial No. 244,777. PUBLISHED AUGUST 14, 1928. Class 6.

249,524. METAL-WORKING TAPS, SURFACE PLATES, LEADING SCREWS. THE IMPERIAL TRUST FOR THE ENCOURAGEMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH, London, England.
Filed August 10, 1926. Serial No. 235,777. PUBLISHED AUGUST 28, 1928. Class 23.

249,525. LEATHER SHOES. A. H. GEUTING Co., INC., Philadelphia, Pa.
Filed June 24, 1926. Serial No. 233,681. PUBLISHED JULY 3, 1928. Class 39.

249,526. [WITHDRAWN.]

249,527. COMPOUND FOR THE TREATMENT OF COCCIDIOSIS AND OTHER DISEASES OF THE SKIN AND BOWELS OF POULTRY, HOGS, AND OTHER ANIMALS. LAGNO LABORATORIES, INC., Lockport, Ill.
Filed March 26, 1927. Serial No. 246,417. PUBLISHED AUGUST 28, 1928. Class 6.

249,528. AXMINSTER RUGS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 18, 1927. Serial No. 245,970. PUBLISHED SEPTEMBER 4, 1928. Class 42.

249,529. LIVE BABY CHICKS, DUCKS, TURKEYS, AND GEESE, COMMONLY KNOWN AS DAY-OLD STOCK. TRAIN'S POULTRY FARM HATCHERY, INC., Englewood Station, Mo.
Filed May 31, 1927. Serial No. 249,824. PUBLISHED AUGUST 21, 1928. Class 46.

249,530. MEN'S SUITS. THE NAVYTONE COMPANY, Philadelphia, Pa.
Filed May 21, 1927. Serial No. 249,368. PUBLISHED AUGUST 21, 1928. Class 39.

249,531. LADIES' AND GIRLS' FROCKS AND DRESSES. SALLY FROCKS, INC., Chicago, Ill.
Filed May 12, 1927. Serial No. 248,933. PUBLISHED AUGUST 21, 1928. Class 39.

249,532. CONTINUOUS ROTARY METAL-DRILLING MACHINES. DAVIS & THOMPSON COMPANY, West Allis, Wis.
Filed April 21, 1927. Serial No. 247,782. PUBLISHED SEPTEMBER 4, 1928. Class 23.

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

249,533. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed Oct. 24, 1927. Serial No. 256,502.

BARCELONA

For Brick.
Claims use since June 9, 1927.

249,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ADA BIAGI, Memphis, Tenn. Filed Sept. 17, 1927. Serial No. 254,830.

ADA BIAGI'S
HIGH GRADE
MUSTARD

For a Prepared Mustard.
Claims use since June 26, 1927.

249,535. (CLASS 39. CLOTHING.) CHENEY BROTHERS, South Manchester, Conn. Filed Sept. 14, 1927. Serial No. 254,705.

SILK-BAKT

For Cravats and Necktles.
Claims use since Sept. 8, 1927.

249,536. (CLASS 39. CLOTHING.) STEPHENS-HUFFINES MANUFACTURING COMPANY, Nashville and Watertown, Tenn. Filed May 31, 1928. Serial No. 267,288.

YEARS WEAR

For Men's and Boys' Work Shirts, Overalls, and Pants and Also Play Suits for Boys and Girls.
Claims use since Aug. 21, 1925.

249,537. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Mrs. HELEN SOPHIA LA DUKE, Iron Mountain, Mich. Filed Feb. 3, 1928. Serial No. 261,118.

LA DUKE

For Sandwich Filling Containing Chopped Meat and Vegetables.
Claims use since June 10, 1927.

249,538. (CLASS 2. RECEPTACLES.) NATIONAL BOX COMPANY, Chicago, Ill. Filed Apr. 30, 1926. Serial No. 230,947.

SUPERSTRONG

For Wooden Boxes and Crates.
Claims use since May 1, 1924.

249,539. (CLASS 11. INKS AND INKING MATERIALS.) PEERLESS ROLL LEAF Co., INC., New York, N. Y. Filed Nov. 25, 1925. Serial No. 223,862.

Color Foil

For Heat-Releasable Transfer Strips, Each Formed of an Indefinite Length of Paper Strip on Which is Applied a Coating of Beeswax and on Which Beeswax Coating is Applied a Coating of Pigment.
Claims use since Aug. 1, 1921.

249,540. (CLASS 38. PRINTS AND PUBLICATIONS.) CONSOLIDATED PRESS ASSOCIATION, Washington, D. C. Filed Sept. 10, 1928. Serial No. 272,139.

Robert Mack

For Newspaper Articles Published from Day to Day.
Claims use since about September, 1926.

249,541. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAURY-COLE COMPANY, Memphis, Tenn. Filed July 11, 1928. Serial No. 269,414.

MATCHLESs

For Peanut Butter and Flavoring Extracts for Foods.
Claims use since Apr. 16, 1925.

249,542. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) NATIONAL ROAD MARKER, INC., Chicago, Ill. Filed Aug. 10, 1928. Serial No. 270,856.

SAFETY WITH RUBBER

For Road Markers.
Claims use since Jan. 1, 1927.

249,543. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MID-WEST BOTTLE CAP Co., Belvidere, Ill. Filed May 20, 1927. Serial No. 249,282.

Kuvercap

For Milk-Bottle Caps.
Claims use since Oct. 8, 1926.

# TRADE-MARK REGISTRATIONS RENEWED

31,875. FEVER REMEDIES. Registered August 16, 1898. THEODORE J. VOGELGESANG, Buffalo, N. Y. Renewed August 16, 1928, to Theodore J. Vogelgesang, Salamanca, N. Y.

31,884. WASHING POWDER. Registered August 16, 1898. SAMUEL J. BRAUN, Toledo, Ohio. Renewed August 16, 1928, to Carman & Co. Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

31,982. POLISH. Registered September 20, 1898. J. L. PRESCOTT & Co. Renewed September 20, 1928, to J. L. Prescott Company, New York, N. Y., a Corporation of New Jersey, assignee.

32,033. HOOKS AND EYES. Registered October 4, 1898. THE AMERICAN PIN Co. Renewed October 4, 1928, to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut, assignee.

32,145. DIETETIC PREPARATIONS OF ALBUMEN. Registered November 8, 1898. PHARMACEUTISCHES INSTITUT LUDWIG WILHELM GANS, Frankfort-on-the-Main, Germany. Renewed November 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,146. OILS FOR ARTISTS' PAINTS, COLORS, AND VARNISHES. Registered November 8, 1898. FLÜGGE & BOECKING, Hamburg, Germany. Renewed November 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,148. CERTAIN ARTIFICIAL FERTILIZERS. Registered November 8, 1898. MARTELLIN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Leipzig, Germany. Renewed November 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,149. CERTAIN ARTIFICIAL FERTILIZERS. Registered November 8, 1898. MARTELLIN GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Leipzig, Germany. Renewed November 8, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,174. ALBUMINATES AND COMPOUNDS THEREOF FOR CERTAIN NAMED PURPOSES. Registered November 22, 1898. EBERHARD VON BODENHAUSEN, Berlin, Germany. Renewed November 22, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,177. A CURE FOR CONSUMPTION. Registered November 22, 1898. KALLE & Co., Biebrich, Germany. Renewed November 22, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,178. A CURE FOR CONSUMPTION. Registered November 22, 1898. KALLE & Co., Biebrich, Germany. Renewed November 22, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,188. PERFUMES, EXTRACTS, TOILET WATERS, AND SACHETS. Registered November 29, 1898. RICHARD HUDNUT. Renewed November 29, 1928, to Richard Hudnut, New York, N. Y., a Corporation of New York, assignee.

32,209. DYESTUFFS APPLICABLE IN COLORING AND PRINTING PROCESSES. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS AND BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,210. A LOCAL ANESTHETIC FOR OPHTHALMOLOGICAL PURPOSES. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,211. AN ALBUMIN COMPOUND CONTAINING PHOSPHORUS. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,212. ARTIFICIAL DUNG. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,213. MEDICINE FOR WOUNDS. Registered December, 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,215. REMEDY FOR CERTAIN NAMED DISEASES. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,216. REMEDY FOR CERTAIN NAMED DISEASES. Registered December 6, 1898. FARBWERKE, VORMALS MEISTER, LUCIUS & BRÜNING, Hochst-on-the-Main, Germany. Renewed December 6, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,242. CERTAIN NAMED MEDICAL COMPOUNDS. Registered December 13, 1898. LUDWIG WILHELM GANS, Frankfort-on-the-Main, Germany. Renewed December 13, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,287. A CURE FOR CONSUMPTION. Registered December 27, 1898. KALLE & Co., Biebrich, Germany. Renewed December 27, 1928, to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y., a Corporation of Delaware, assignee.

32,297. CERTAIN NAMED LIQUID CONDIMENTS. Registered December 27, 1898. THE HORTON CATO MANUFACTURING COMPANY, Detroit, Mich. Renewed December 27, 1928, to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey, assignee.

32,482. DISINFECTANTS AND INSECTICIDES. Registered February 7, 1899. EMIL TAUSSIG, New York, N. Y. Renewed February 7, 1929, to West Disinfecting Company, Long Island City, N. Y., a Corporation of New York, assignee.

32,487. PACKINGS. Registered February 7, 1899. CRANDALL PACKING COMPANY, Palmyra, N. Y., a Corporation of New York. Renewed February 7, 1929.

32,490. LADIES' SHOES. Registered February 14, 1899. C. D. GIBSON & SON, Philadelphia, Pa. Renewed February 14, 1929.

32,494. BOTTLED BEER. Registered February 14, 1899. M. K. GOETZ BREWING CO., St. Joseph, Mo., a Corporation of Missouri. Renewed February 14, 1929.





32,626. COLLARS. Registered March 28, 1899. BOHNE BROS. & Co. Renewed March 28, 1929, to Bohne Bros. & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

70,721. A CERTAIN MEDICINAL PREPARATION. Registered September 29, 1908. JOSEPH JOHN VETTER, Brooklyn, N. Y. Renewed September 29, 1928, to Cosmo Ligorio, Brooklyn and New York, N. Y., assignee by mesne assignments.

70,850. A MEDICINAL COMPOUND. Registered October 13, 1908. ALKALOL COMPANY, Taunton, Mass., a Corporation of Massachusetts. Renewed October 13, 1928.

71,572. PENCILS, PENHOLDERS, RUBBER ERASERS, AND PENCIL HOLDERS. Registered December 1, 1908. BLEISTIFT-FABRIK VORM. JOHANN FABER A. G., Nuremberg, Germany, a Corporation of Germany. Renewed December 1, 1928.

71,639. CHOCOLATES. Registered December 8, 1908. H. D. FOSS & Co., INCORPORATED, Boston, Mass. Renewed December 8, 1928, to H. D. Foss & Co. Inc., Cambridge, Mass., a Corporation of Massachusetts, assignee.

71,865. STOVES, FURNACES, AND RANGES. Registered December 15, 1908. COLE MANUFACTURING COMPANY, Chicago, Ill., and Council Bluffs, Iowa. Renewed December 15, 1928, to Cole Manufacturing Company, Chicago, Ill., a Corporation of Illinois.

72,352. CERTAIN PENCILS. Registered January 19, 1909. BLEISTIFT-FABRIK VORM. JOHANN FABER A.-G., Nuremberg, Germany, a Corporation of Germany. Renewed January 19, 1929.

72,785. INSULATING MATERIAL CONTAINING CORK. Registered February 23, 1909. ARMSTRONG CORK COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed February 23, 1929.

72,837. TOILET DEODORANTS. Registered March 2, 1909. SERAPH J. DEAL, doing business as Mum Manufacturing Company, Philadelphia, Pa. Renewed March 2, 1929.

72,852. FLOOR PAINT. Registered March 2, 1909. THE A. BURDSAL COMPANY, Indianapolis, Ind., a Corporation of Indiana. Renewed March 2, 1929.

72,865. ELECTRIC CONDUIT FITTINGS. Registered March 2, 1909. THE FAIRMOUNT ELECTRIC AND MANUFACTURING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 2, 1929.

72,867. SOLID AND PNEUMATIC RUBBER VEHICLE TIRES. Registered March 2, 1909. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a Corporation of Ohio. Renewed March 2, 1929.

72,945. CERTAIN FOODS. Registered March 2, 1909. STROHMEYER & ARPE Co., New York, N. Y., a Corporation of New York. Renewed March 2, 1929.

72,946. CERTAIN FOODS. Registered March 2, 1909. STROHMEYER & ARPE Co., New York, N. Y., a Corporation of New York. Renewed March 2, 1929.

73,002. METAL POLISH. Registered March 9, 1909. F. T. LORD POLISH Co., Somerville, Mass. Renewed March 9, 1929, to F. T. Lord Polish Co., Cambridge, Mass., a Corporation of Massachusetts.

73,116. CERTAIN FOODS. Registered March 16, 1909. STROHMEYER & ARPE Co., New York, N. Y., a Corporation of New York. Renewed March 16, 1929.

73,123. CABINETS FOR WATCH GLASSES. Registered March 16, 1909. HAMMEL, RIGLANDER & Co. Renewed March 16, 1929, to Hammel, Riglander & Co. Inc., New York, N. Y., a Corporation of New York, successor.

73,132. CERTAIN LIGHTING APPARATUS. Registered March 16, 1909. THE BADGER BRASS MFG. Co., Kenosha, Wis. Renewed March 16, 1929, to C. M. Hall Lamp Company, Detroit, Mich., a Corporation of Michigan, successor.

73,136. CIGARS. Registered March 16, 1909. H. FENDRICH. Renewed March 16, 1929, to H. Fendrich Incorporated, Evansville, Ind., a Corporation of Indiana, assignee.

# LABELS

## REGISTERED NOVEMBER 13, 1928.

34,921.—*Title:* REXTANA. For Rugs. BEATTIE MANUFACTURING COMPANY, Little Falls, N. J., and New York, N. Y. Published August 25, 1928.

34,922.—*Title:* FRUTAS ESCOGIDAS. For Canned Mangoes. CLEMENTE JACQUES Y CIA., Mexico, D. F., Mexico. Published May 30, 1924.

34,923.—*Title:* JUAREZ WHISKEY STRAIGHT AMERICAN. For Whiskey. D. M. DISTILLERY COMPANY, S. A., Juarez, Mexico. Published April 27, 1928.

34,924.—*Title:* FONTANA'S. For Spaghetti. FONTANA FOOD PRODUCTS COMPANY, South San Francisco, Calif. Published March 15, 1928.

34,925.—*Title:* YANKEE GIRL. For Canned Tomatoes. ISAAC FRANKEL'S SONS, Wilkes-Barre, Pa. Published June 15, 1928.

34,926.—*Title:* GABÀL-BITTER. For Bitters. GABAL SALES CORPORATION, New York, N. Y. Published July 9, 1928.

34,927.—*Title:* DINER'S DELIGHT. For Potatoes. NATHAN E. GREENBERGER, doing business as International Fruit Exchange, New York, N. Y. Published July 30, 1928.

34,928.—*Title:* STARJAX. For Jack Sets. GRET IRON CASTINGS COMPANY, Mount Joy, Pa. Published June 12, 1928.

34,929.—*Title:* HI-GLOSS. For Lacquer Auto Enamel. JESSE WILLIAM HAMMOND, doing business as Western Lacquer and Varnish Co., Los Angeles, Calif. Published March 8, 1927.

34,930.—*Title:* DROMEDARY GRAPEFRUIT JUICE. For Grapefruit Juice. THE HILLS BROTHERS COMPANY, New York, N. Y. Published August 20, 1928.

34,931.—*Title:* ISUAN THE SPIRIT OF JOY. For Ginger Ale. THE ISUAN CORPORATION, doing business under the name of Isuan, Manila, P. I., and San Francisco, Calif. Published July 1, 1927.

34,932.—*Title:* TWO-IN-ONE. For Malt Extract. M. A. KEENAN & SONS, New London, Conn. Published January 15, 1921.

34,933.—*Title:* KOLB'S OVEN-JEM BREAD. For Bread. KOLB'S BAKERY, Los Angeles, Calif. Published April 19, 1928.

34,934.—*Title:* ADDO PRACTICE AND PUZZLE. For a Game. LOS ANGELES PAPER BOX FACTORY, Los Angeles, Calif. Published March 2, 1928.

34,935.—*Title:* RAXMONIA. For a Powder Having Cleansing, Bleaching, Disinfecting, and Antiseptic Properties. ETHAN MATHER, Cincinnati, Ohio. Published April 16, 1928.

34,936.—*Title:* JELL-E-SEAL. For Paraffine Cubes. NATIONAL PARAFFINE PRODUCTS COMPANY, Akron, Ohio. Published August 9, 1928.

34,937.—*Title:* COUGH AND THROAT LOZENGES. For Cough and Throat Lozenges. ORGAN-IRON LABORATORIES, Omaha, Nebr. Published September 21, 1928.

34,938.—*Title:* PAX—THE CRYSTALLIZED SOAP. For Soap Product. G. H. PACKWOOD MANUFACTURING Co., St. Louis, Mo. Published June 26, 1928.

34,939.—*Title:* HOOSIER CORN STARCH. For Cornstarch. PIEL BROS. STARCH CO., Indianapolis, Ind. Published September 14, 1928.

34,940.—*Title:* LA REINA. For Oranges. RIALTO ORANGE CO., Rialto, Calif. Published July 2, 1928.

34,941.—*Title:* WESTERN QUEEN. For Oranges. RIALTO ORANGE CO., Rialto, Calif. Published July 2, 1928.

34,942.—*Title:* FANCIA. For Oranges. RIALTO ORANGE CO., Rialto, Calif. Published July 2, 1928.

34,943.—*Title:* RED SKIN. For Oranges. RIALTO ORANGE CO., Rialto, Calif. Published July 2, 1928.

34,944.—*Title:* CYCLONE TWISTER. For Cigars. MARTIN L. RICHARDS, Dallas, Tex. Published June 15, 1928.

34,945.—*Title:* DIXIE DRY. For Ginger Ale. TAMPA TRIBUNE WATER CORPORATION, Tampa, Fla. Published October 15, 1928.

34,946.—*Title:* NEW LIFE. For Malt Syrup. UNITED STATES BREWING CO. OF CHICAGO, Chicago, Ill. Published September 10, 1928.

34,947.—*Title:* WELLS 100% PURE ORANGE JUICE. For Orange Juice. WELLS CITRUS PRODUCTS, INC., Wauchula, Fla. Published April 9, 1928.

34,948.—*Title:* WELLS 100% PURE GRAPEFRUIT JUICE. For Grapefruit Juice. WELLS CITRUS PRODUCTS, INC., Wauchula, Fla. Published April 9, 1928.

# PRINTS

## REGISTERED NOVEMBER 13, 1928.

11,323.—*Title:* FOR COLDS OZO MIST. For Preparation for the Relief of Colds, Hay Fever, Catarrh, and Asthma. ADSON CHEMICAL CO. INC., New York, N. Y. Published July 28, 1928.

11,324.—*Title:* AUTHORIZED SERVICE CAMP SUPPORTS. For Camp Physiological Supports. S. H. CAMP & CO., Jackson, Mich. Published July 26, 1928.

11,325.—*Title:* NOT THIS SEASON'S CAR PERHAPS—BUT THIS SEASON'S COLORS. For Du Pont Duco. E. I. DU PONT DE NEMOURS & CO., INC., Wilmington, Del. Published August 9, 1928.

11,326.—*Title:* EL PRODUCTO. For Cigars. G. H. P. CIGAR CO., INC., Philadelphia, Pa. Published April 15, 1928.

11,327.—*Title:* CAMEL DATES THEY'RE SEEDED. For Dates. THE HILLS BROTHERS COMPANY, New York, N. Y. Published August 22, 1928.

11,328.—*Title:* CAMEL DATES. For Dates. THE HILLS BROTHERS COMPANY, New York, N. Y. Published August 22, 1928.

11,329.—*Title:* HOWLETT WALL SAFE. For Wall Safes. CHARLES A. S. HOWLETT, Lowville, N. Y. Published July 20, 1928.

11,330.—*Title:* NATCO SOLVES YOUR "HOLE" PROBLEM. For Metal Drilling and Tapping Machines. THE NATIONAL AUTOMATIC TOOL COMPANY, Richmond, Ind. Published July 19, 1928.

11,331.—*Title:* PURPLE COW SANDWICH SHOPPE. For Foodstuffs, Particularly Bakery Products, Sandwiches, Coffee, and Tea. PURPLE COW SANDWICH SHOPPE, INC., New York and Albany, N. Y. Published June 1, 1928.

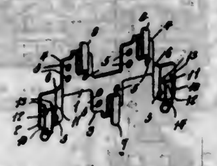
11,332.—*Title:* SELECT THIS WALL COVERING OF ENDURING CHARM. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y. Published September 1, 1928.

11,333.—*Title:* STANDARD UNBREAKABLE WATCH CRYSTALS, INC. For Unbreakable Watch Crystals. STANDARD UNBREAKABLE WATCH CRYSTALS INC., New York, N. Y. Published March 15, 1928.

# REISSUES

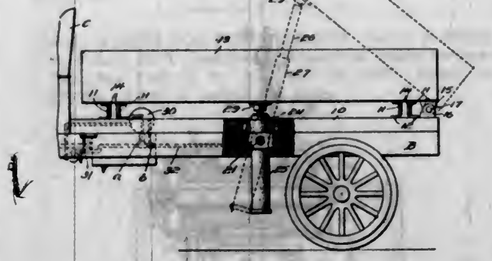
## NOVEMBER 13, 1928.

17,129. MARCEL HAIR WAVER. ELNORA E. BALDWIN, Denver, Colo. Filed Apr. 30, 1928. Serial No. 274,082. Original No. 1,627,590, dated May 10, 1927, Serial No. 108,901, filed May 13, 1926. 8 Claims. (Cl. 132—40.)



1. A hair waver comprising a body member having a plurality of arms en masse extending outwardly on opposite sides thereof and spaced apart, the arms intermediate the extremities of the device being each provided with a plurality of distinct relatively small perforations formed in the masse material of the arms to facilitate the drying of the hair when the device is applied.

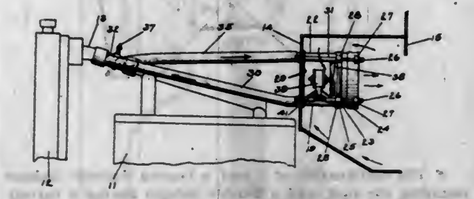
17,130. TILTING MECHANISM FOR DUMPING BODIES. GEORGE W. BERRY, deceased, Kane, Pa., by The U. S. Hoist & Body Company, assignee, Youngstown, Ohio. Filed Feb. 10, 1928. Serial No. 253,493. Original No. 1,392,107, dated Sept. 27, 1921, Serial No. 371,045, filed Apr. 3, 1920. 13 Claims. (Cl. 298—22.)



1. The combination with a supporting frame, of a tilting body, changeable connections between the frame and body for selective side or end tilting of the latter, jacks disposed intermediate the ends of said frame and spaced apart and removed from and at opposite sides of the longitudinal center of the frame, a swivel connection between each of the jacks and the body, and supports for the jacks to permit lateral and longitudinal swinging movements thereof.

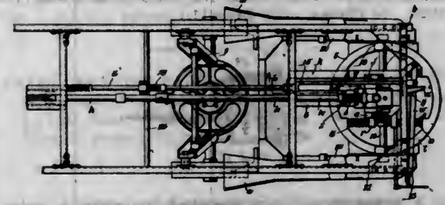
17,131. HEATING APPARATUS FOR AUTOMOTIVE VEHICLES. ORVILLE S. CAESAR, Chicago, Ill., assignor to Tropic-Aire, Incorporated, Minneapolis, Minn., a Corporation of Delaware. Filed Aug. 23, 1928. Serial No. 301,665. Original No. 1,668,490, dated May 1, 1928, Serial No. 166,544, filed Feb. 7, 1927. 13 Claims. (Cl. 237—12.3.)

1. A hot-liquid heating system for motor-driven vehicles comprising an engine circulating-liquid cooling system including an engine cooling-medium jacket and radiator, a valve positioned between the engine cooling-medium jacket and radiator for controlling the flow of the cooling-medium from the jacket to the radiator and its return, a liquid-heated air-heater positioned within the body of the vehicle and in communication with the engine circulating liquid-cooling system, means disposed between the liquid-heated



air-heater and an engine-containing chamber to prevent passage of noxious gases and fumes from the engine-containing chamber into the space containing the liquid-heated air-heater, and a fan within the space containing the liquid-heated air-heater for circulating heated air within the vehicle body.

17,132. SEMITRAILER. CHARLES H. LAND, Jr., Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a Corporation of Michigan. Filed July 21, 1926. Serial No. 124,080. Original No. 1,568,560, dated Jan. 5, 1926, Serial No. 691,342, filed Feb. 8, 1924. 65 Claims. (Cl. 280—33.1.)

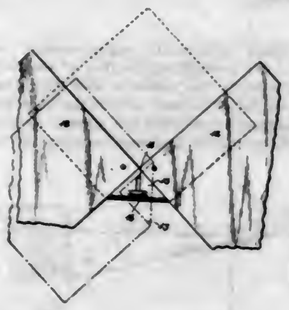


1. In a truck and a semi-trailer, the combination of a truck provided with inclined tracks at the back, a semi-trailer frame, rollers supported on the trailer frame adapted to run up the tracks, lock bars on the truck having rollers at the ends, and U brackets depending from the trailer frame arranged to engage the rollers on the ends of the locking bars to slightly raise the trailer with respect to the truck when the truck backs clear into the trailer for the purpose of causing the rollers to clear the track.

34. In a truck and a semi-trailer, the combination of a truck, a trailer, a coupling member provided with two parts which have relative movement and which are connected one to the truck and one to the trailer, an override brake in the trailer arranged to engage against the coupling part attached to the truck when the trailer tends to override the truck whereby the coupling parts separate and apply the brakes.

53. A combined vehicle of the character described comprising, in combination, a tractor, a trailer, a carriage mounted on the trailer to move back and forth during coupling and uncoupling respectively, and coupling means means on said carriage operable automatically during coupling and uncoupling respectively to connect and disconnect said tractor and said carriage.

17,133. SHINGLE LOCK. FELIX E. LIETZ, Buffalo, N. Y., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 22, 1927. Serial No. 228,087. Original No. 1,583,254, dated May 4, 1926, Serial No. 76,166, filed Dec. 18, 1925. 2 Claims. (Cl. 108—33.)



2. The combination of a roof, a headed fastener element engaging the roof, and a flexible shingle having a turned-under lower corner provided with a slot interlocking with said fastener when the shingle is in a predetermined position and is moved inwardly relative to the roof, said slot provided by the lower corner of the shingle and fastener being adapted to be brought into interlocking engagement upon a turning movement of the shingle relative to the fastener, the body of the shingle overlying and concealing the fastener and slot.

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17,134. SOCKET FOR CURTAIN FASTENERS. JOHN VODICKA, deceased, Chicago, Ill., by Cinch Manufacturing Corporation, assignee, Chicago, Ill. Filed Dec. 22, 1927. Serial No. 241,985. Original No. 1,567,348, dated Dec. 29, 1925, Serial No. 686,586, filed Jan. 16, 1924. 14 Claims. (Cl. 24—211.)

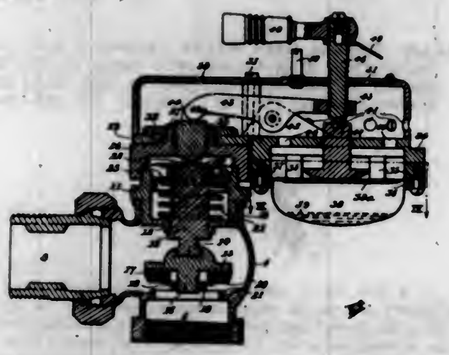


5. A socket of the class described comprising a casing or cup having a flange at one end, a stud-receiving aperture at the same end as the flange, an attaching screw having a head and a shank and means securing said screw head to the other end of the cup.

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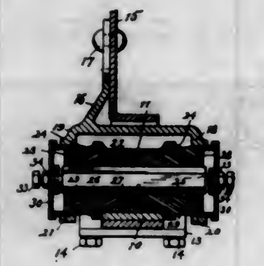
17,135. AUTOMATIC HEAT-CONTROLLING REGULATOR. JAMES J. LAWLER, Mount Vernon, N. Y., assignor to Direct-Control Valve Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 27, 1927. Serial No. 222,394. Original No. 1,555,592, dated Sept. 29, 1925, Serial No. 747,264, filed Nov. 1, 1924. 9 Claims. (Cl. 236—42.)

1. In a device of the type described, a valve casing, a cage mounted in said casing, a reciprocating valve carried by the cage, a spring in the cage for opening the valve, a cap mounted on the cage, a tubular stem carried by the cap in axial alignment with the valve, an actuator freely mounted in the bore of said stem, a laterally projecting housing connected to said stem for angular adjustment in respect to the casing, an expansion chamber depending from the housing, a centrally pivoted lever mounted in the housing and engaging the actuator at one end, and adjustable means connecting the expansion chamber and the remaining end of the lever for varying the distance said valve may open and for causing expansion of the chamber to operate said lever for closing said valve.



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17,136. PIVOTAL CONNECTION. HOWARD C. HARRIS, Akron, Ohio. Filed Sept. 4, 1928. Serial No. 305,120. Original No. 1,624,239, dated Apr. 12, 1927, Serial No. No. 102,435, filed Apr. 16, 1926. 14 Claims. (Cl. 267—54.)



1. In pivotal connections, the combination of a bracket having spaced arms provided with aligned bores, a member which is arranged between said arms and has a bore that is coaxial with the bores in said arms, a pintle extending through said bores, a rubber bushing between said pintle and said member and through which the member and pintle are connected, axially movable members fitting the bores in said arms and non-rotatably connected with said pintle, and means whereby said axially movable members are moved to compress said rubber bushing axially and non-rotatably secured to said arms.

# DESIGNS

## NOVEMBER 13, 1928.

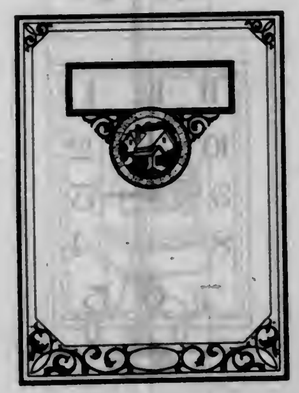
76,846. GLOBE FOR LIGHTING FIXTURES. HARRY RAY ARTHUR, St. Louis, Mo., assignor to The Edwin F. Guth Company, St. Louis, Mo., a Corporation of Missouri. Filed July 28, 1926. Serial No. 18,504. Term of patent 14 years.



The ornamental design for a globe for lighting fixtures, as shown.

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76,847. COVER FOR PUBLICATIONS. ISAAC S. BETTS, New York, N. Y., assignor to Household Guide Corporation, New York, N. Y. Filed Oct. 10, 1927. Serial No. 23,704. Term of patent 3½ years.



The ornamental design for a cover for publications as shown.

76,848. COMBINED STRAP AND SHIELD FOR A LIGHTING FIXTURE. HARRY BINDER, Brooklyn, N. Y., assignor to Luxor Electrical Fixture Corp., Brooklyn, N. Y., a Corporation of New York. Filed Mar. 27, 1928. Serial No. 26,018. Term of patent 3½ years.



The ornamental design for a combined strap and shield for a lighting fixture, as shown.

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76,849. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Sept. 1, 1928. Serial No. 28,026. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,850. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Sept. 7, 1928. Serial No. 28,070. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,851. CAMPAIGN BUTTON OR THE LIKE. SAMUEL S. BLOOM, New York, N. Y. Filed Aug. 7, 1928. Serial No. 27,735. Term of patent 3½ years.




The ornamental design for a campaign button or the like as shown.

76,852. GOBLET. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Aug. 17, 1928. Serial No. 27,870. Term of patent 14 years.



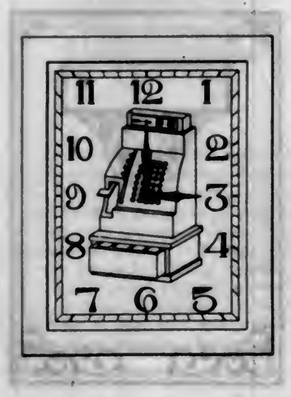
The ornamental design for a goblet, as shown.

76,853. CONTAINER FOR A VACUUM FLASK OR THE LIKE. JOSEPH COHEN, Taunton, Mass. Filed Feb. 9, 1928. Serial No. 25,333. Term of patent 7 years.



The ornamental design for a container for a vacuum flask or the like, as shown.

76,854. WATCH DIAL. HARRY I. CRAMER, Dayton, Ohio, assignor to The Sterling Jewelry Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 18, 1928. Serial No. 24,913. Term of patent 7 years.




The ornamental design for a watch dial, as shown.



76,855. HANDLE FOR SCREW DRIVER OR SIMILAR ARTICLE. GEORGE J. CROSSMAN, Jr., Newark, N. J., assignor to Compo-Site, Inc., Newark, N. J., a Corporation of New Jersey. Filed Aug. 27, 1927. Serial No. 23,225. Term of patent 14 years.



The ornamental design for a handle for screw driver or similar article, as shown.

76,856. DISPLAY STAND. CARMELO T. D'ANGELO, Buffalo, N. Y. Filed May 31, 1927. Serial No. 22,247. Term of patent 3½ years.



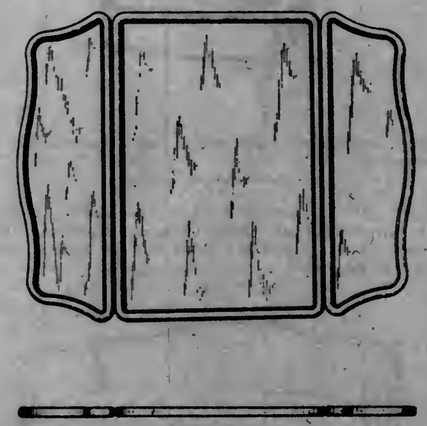
The ornamental design for a display stand as shown.

76,857. BRACELET. DMITRI DUBASSOFF, Philadelphia, Pa. Filed Mar. 10, 1927. Serial No. 21,081. Term of patent 3½ years.



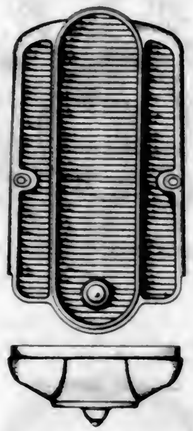
The ornamental design for a bracelet, as shown.

76,858. TABLE TOP OR ARTICLE OF SIMILAR NATURE. BRAINERD DYER, Hudson, Ohio, assignor to Vitreous Steel Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 19, 1927. Serial No. 24,540. Term of patent 14 years.



The ornamental design for a table top or article of similar nature substantially as shown.

76,859. RADIATOR. HARLEY J. EARL, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 18, 1928. Serial No. 27,884. Term of patent 14 years.



The ornamental design for a radiator as shown.

76,860. CHAIR. HAROLD P. FARIS, Chicago, Ill., assignor to Kroehler Manufacturing Company, Naperville, Ill., a Corporation of Illinois. Filed Feb. 18, 1928. Serial No. 25,482. Term of patent 3½ years.



The ornamental design for a chair, substantially as shown.

76,861. SOFA. HAROLD P. FARIS, Chicago, Ill., assignor to Kroehler Manufacturing Company, Naperville, Ill., a Corporation of Illinois. Filed Feb. 18, 1928. Serial No. 25,483. Term of patent 3½ years.



The ornamental design for a sofa, substantially as shown.

76,862. SOFA. HAROLD P. FARIS, Chicago, Ill., assignor to Kroehler Manufacturing Company, Naperville, Ill., a Corporation of Illinois. Filed Feb. 18, 1928. Serial No. 25,484. Term of patent 3½ years.



The ornamental design for a sofa, substantially as shown.

76,863. CHAIR. WILLIAM S. FERRIS, Elkhart, Ind. Filed Sept. 22, 1927. Serial No. 23,514. Term of patent 14 years.



The ornamental design for a chair substantially as shown.

76,864. SUPPORT FOR ELECTRIC PICK-UP. CARL F. GOUDY, Flushing, N. Y., assignor to Pacent Electric Co., Inc., New York, N. Y., a Corporation of New York. Filed July 11, 1928. Serial No. 27,462. Term of patent 3½ years.



The ornamental design for a support for electric pick-up, substantially as shown.



76,865. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. MITCHEL E. HADAD, Brooklyn, N. Y., assignor to Henry Hadad Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 20, 1928. Serial No. 25,925. Term of patent 3½ years.



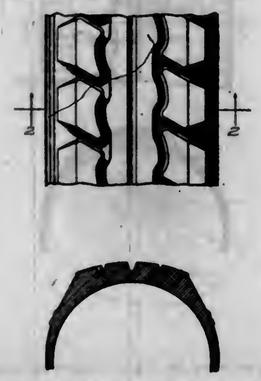
The ornamental design for a textile fabric or similar article of manufacture substantially as shown.

76,866. LANTERN FRAME. HARRY R. HOLDEMAN, Los Angeles, Calif., assignor to J. M. Feldman Co. Inc., Los Angeles, Calif. Filed Feb. 20, 1928. Serial No. 25,493. Term of patent 3½ years.



The ornamental design for a lantern frame as shown.

76,867. TIRE. SIGURD HOLM, West Allis, Wis., assignor to The Badger Rubber Works, a Corporation of Wisconsin. Filed Jan. 25, 1928. Serial No. 25,031. Term of patent 14 years.



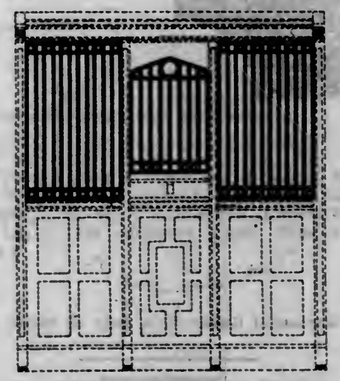
The ornamental design for a tire as shown.

76,868. SIGNAL PANEL FOR AUTOMOTIVE VEHICLE SIGNAL DEVICE. MONVILLE HOLMDAHL, Vallejo, Calif. Filed Jan. 17, 1928. Serial No. 24,907. Term of patent 14 years.



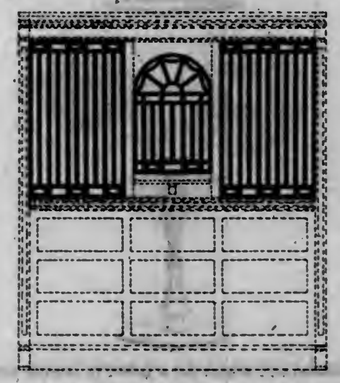
The ornamental design for signal panel for automotive vehicle signal device, as shown.

76,869. GRILLE. WILLIAM T. HORMES, Catonsville, Md. Filed Nov. 22, 1927. Serial No. 24,234. Term of patent 3½ years.



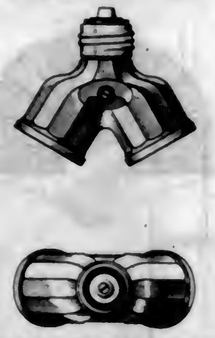
The ornamental design for a grille, as shown.

76,870. GRILLE. WILLIAM T. HORMES, Catonsville, Md. Filed Nov. 22, 1927. Serial No. 24,235. Term of patent 3½ years.



The ornamental design for a grille, as shown.

76,871. ELECTRICAL SOCKET. WILLIAM HUPPERT, New York, N. Y. Filed Apr. 28, 1927. Serial No. 21,781. Term of patent 7 years.



The ornamental design for an electrical socket, as shown.

76,872. DOILY. EDWARD KARFIOL, Brooklyn, N. Y. Filed Feb. 25, 1928. Serial No. 25,580. Term of patent 14 years.



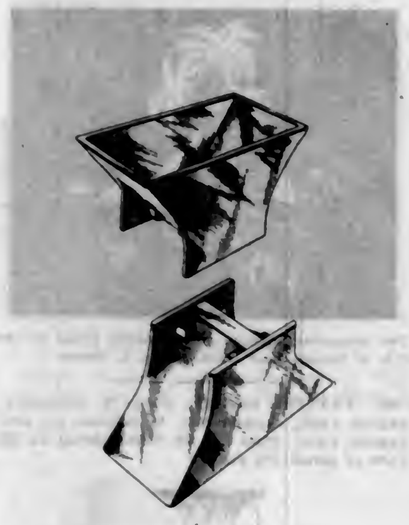
The ornamental design for a doily as shown and described.

76,873. GOBLET OR SIMILAR ARTICLE. CHARLES R. KEIL, Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 17, 1928. Serial No. 27,508. Term of patent 14 years.



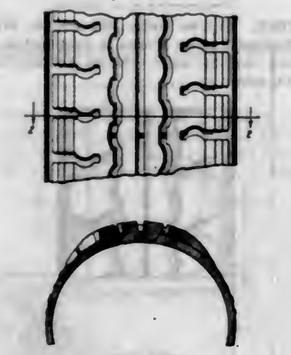
The ornamental design for a goblet or similar article, as shown.

76,874. NAPKIN HOLDER. JAMES W. KING, Saugerties, N. Y., assignor to The Tissue Company, Saugerties, N. Y., a Corporation of New York. Filed Nov. 3, 1924, Serial No. 11,279. Term of patent 14 years.



The ornamental design for a napkin holder, as shown.

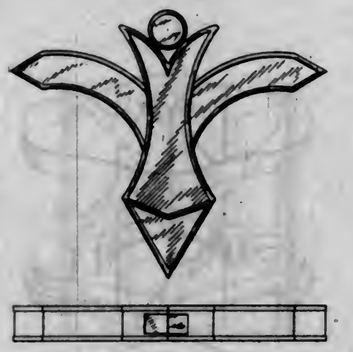
76,875. TIRE. JOHN H. KONAREK, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 15, 1927. Serial No. 24,490. Term of patent 14 years.



The ornamental design for a tire, as shown.

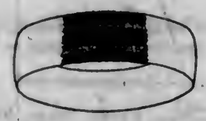


76,876. AUTOMOBILE SIGNAL. JOHN N. KORVALLIS, Los Angeles, Calif. Filed July 30, 1928. Serial No. 27,620. Term of patent 14 years.



The ornamental design for an automobile signal substantially as shown.

76,877. BRACELET OR SIMILAR ARTICLE. WILHELM KUEHNER, Providence, R. I. Filed May 19, 1928. Serial No. 26,757. Term of patent 7 years.



The ornamental design for a bracelet or similar article, as shown and described.

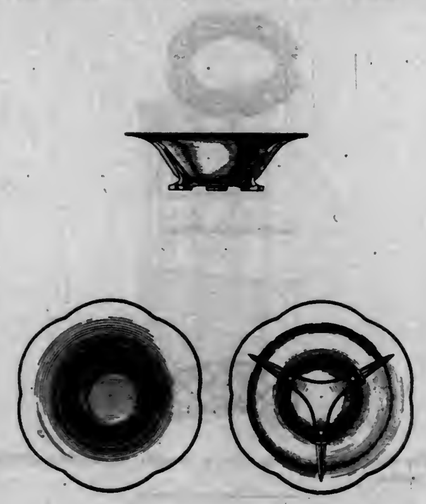
76,878. BOWL. WILLIAM H. MAGEE, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Aug. 3, 1928. Serial No. 27,692. Term of patent 14 years.



The ornamental design for a bowl, as shown.

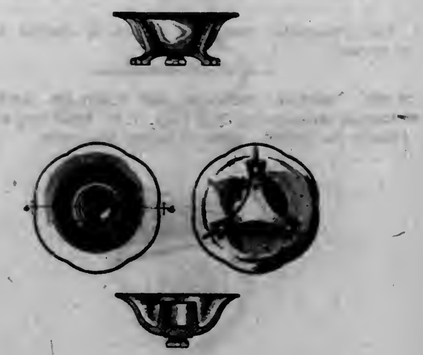


76,879. BOWL. WILLIAM H. MAGEE, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Aug. 3, 1928. Serial No. 27,689. Term of patent 14 years.



The ornamental design for a bowl, as shown.

76,880. CANDLESTICK. WILLIAM H. MAGEE, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Aug. 3, 1928. Serial No. 27,693. Term of patent 14 years.



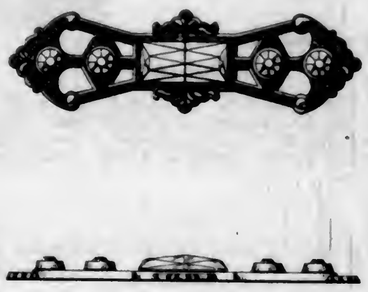
The ornamental design for a candlestick, as shown.

76,881. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed May 12, 1928. Serial No. 26,653. Term of patent 3½ years.



The ornamental design for a brooch, or similar article as shown.

76,882. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed June 29, 1928. Serial No. 27,319. Term of patent 3½ years.



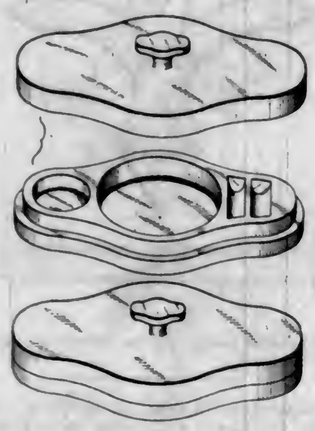
The ornamental design for brooch or similar article, as shown.

76,883. METAL BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed July 5, 1928. Serial No. 27,376. Term of patent 3½ years.



The ornamental design for a metal brooch or similar article, as shown.

76,884. DRESSING-TABLE RECEPTACLE FOR COSMETICS OR THE LIKE. LAURA L. MILLHINO, New York, N. Y. Filed Feb. 8, 1927. Serial No. 20,593. Term of patent 14 years.



The ornamental design for a dressing-table receptacle for cosmetics or the like, substantially as shown and described.

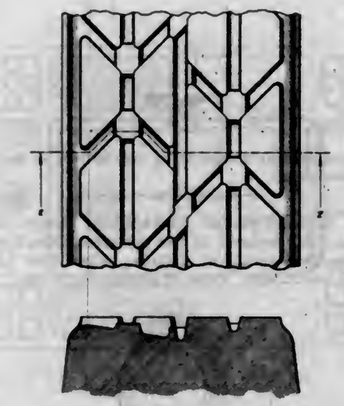
76,885. STOCKING. ERNST OSCAR NEBEL, Philadelphia, Pa., assignor to Oscar Nebel Co., Inc., Hatboro, Pa., a Corporation of Pennsylvania. Filed Dec. 20, 1926. Serial No. 20,096. Term of patent 7 years.



The ornamental design for a stocking substantially as shown.

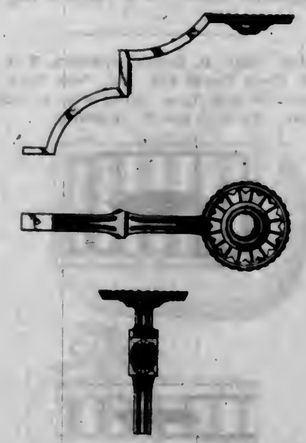


76,886. TIRE. RALPH H. NESMITH, Grosse Pointe Park, Mich., assignor to Morgan & Wright, Detroit, Mich., a Corporation of Michigan. Filed July 2, 1928. Serial No. 27,354. Term of patent 14 years.



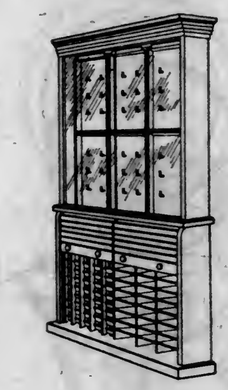
The ornamental design for a tire as shown.

76,887. ARM FOR LIGHTING FIXTURES. BARNET NEWLAND, New York, N. Y. Filed Aug. 17, 1928. Serial No. 27,859. Term of patent 7 years.



The ornamental design for an arm for lighting fixtures as shown.

76,888. DISPLAY CASE OR SIMILAR ARTICLE. JOSEPH J. NORVELLE, Pittsfield, Mass. Filed Nov. 8, 1927. Serial No. 23,997. Term of patent 14 years.



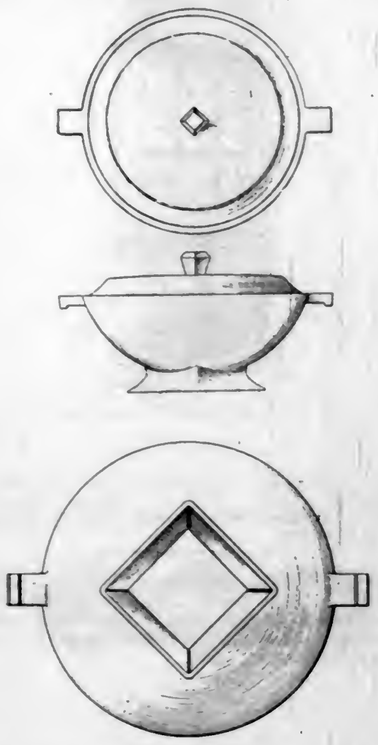
The ornamental design for a display case or similar article as shown.

76,889. SALT OR PEPPER SHAKER. ALFRED F. REILLY, Attleboro, Mass., assignor to Evans Case Company, North Attleboro, Mass., a Corporation of Massachusetts. Filed May 28, 1928. Serial No. 26,887. Term of patent 8½ years.



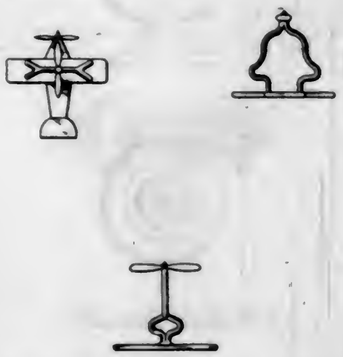
The ornamental design for a salt or pepper shaker, as shown.

76,890. COVERED DISH OR SIMILAR ARTICLE. EDWARD JOHN RIDGWAY, Hempstead, N. Y., assignor to Meakin & Ridgway, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 15, 1928. Serial No. 27,821. Term of patent 14 years.



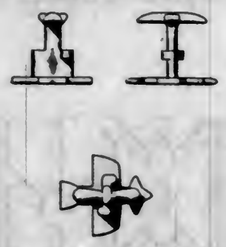
The ornamental design for a covered dish or similar article, as shown.

76,891. CUFF BUTTON OR THE LIKE. FREDERICK CARLYLE RILE, Chicago, Ill. Filed Apr. 13, 1928. Serial No. 26,315. Term of patent 14 years.



The ornamental design for a cuff button or the like, as shown.

76,892. CUFF BUTTON OR THE LIKE. FREDERICK CARLYLE RILE, Chicago, Ill. Filed May 4, 1928. Serial No. 26,574. Term of patent 14 years.



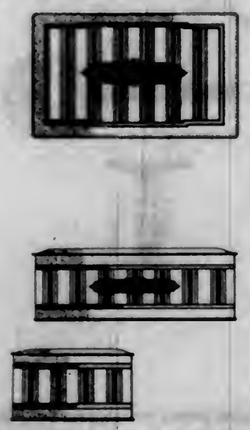
The ornamental design for a cuff button or the like as shown.

76,893. RADIATOR-CAP ORNAMENT. FELIX RIVANOV, Chicago, Ill., assignor to The Anderson Company, Gary, Ind., a Corporation of Indiana. Filed Feb. 13, 1928. Serial No. 25,421. Term of patent 3½ years.



The ornamental design for a radiator cap ornament as shown.

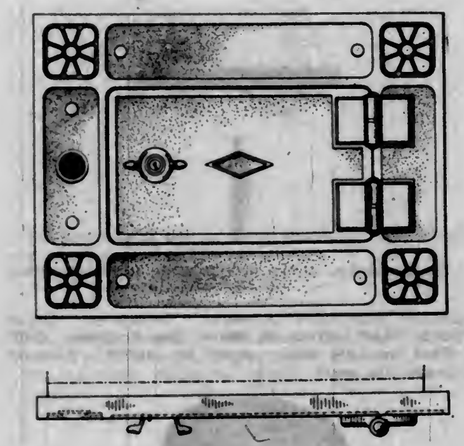
76,894. BOX. EMIL H. RONAY, Brooklyn, N. Y., assignor to R. M. Haan Candy Co., Inc., New York, N. Y., a Corporation of New York. Filed Feb. 4, 1928. Serial No. 25,194. Term of patent 14 years.



The ornamental design for a box substantially as shown and described.



76,895. NIGHT SAFE DEPOSITORY. HARRY J. ROBINSON, Boston, Mass., assignor to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Filed May 25, 1928. Serial No. 26,862. Term of patent 14 years.



The ornamental design for a night safe depository, as shown.

76,896. DRINK STAND. PETER E. RYERSON, Holtville, Calif. Filed Jan. 16, 1928. Serial No. 24,899. Term of patent 14 years.



The ornamental design for a drink stand, as shown.

76,897. TABORET. RICHARD RICHTARIK, Cleveland, Ohio, assignor to The Superior Foundry Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1928. Serial No. 27,059. Term of patent 7 years.



The ornamental design for a taboret as shown and described.

76,898. FLOWER STAND. JOHN B. SALTERINI, New York, N. Y. Filed Feb. 4, 1928. Serial No. 25,199. Term of patent 3½ years.



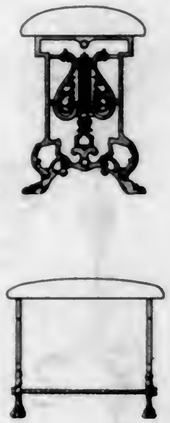
The ornamental design for a flower stand, as shown.

76,899. FLOWER STAND. JOHN B. SALTERINI, New York, N. Y. Filed Feb. 4, 1928. Serial No. 25,200. Term of patent 3½ years.



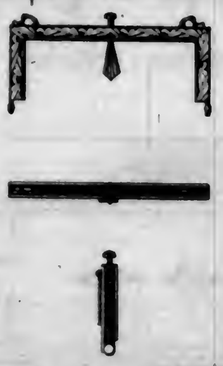
The ornamental design for a flower stand as shown.

76,900. BENCH. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 10, 1928. Serial No. 27,786. Term of patent 7 years.



The ornamental design for a bench, as shown.

76,901. HANDBAG FRAME. ABRAHAM SHERMAN, Brooklyn, N. Y. Filed Sept. 4, 1928. Serial No. 28,037. Term of patent 3½ years.



The ornamental design in a handbag frame as shown.

76,902. HAT. IRWIN B. SIMON, San Francisco, Calif. Filed Apr. 19, 1928. Serial No. 26,384. Term of patent 3½ years.



The ornamental design for a hat, as shown.

76,903. COMBINED VALVE HANDLE AND HOUSING. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,500. Term of patent 14 years.



The ornamental design for a combined valve handle and housing, substantially as shown.

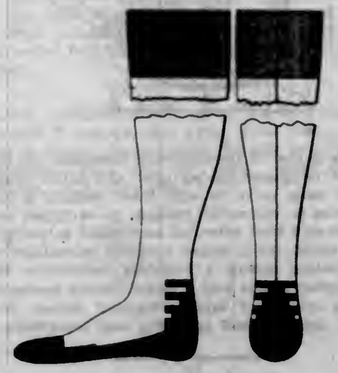


76,904. COMBINED VALVE HANDLE AND HOUSING. SHERMAN SMITH, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,504. Term of patent 14 years.



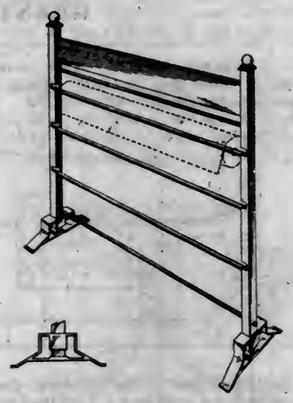
The ornamental design for a combined valve handle and housing, substantially as shown.

76,905. STOCKING. JAMES A. STRUTHERS, Minneapolis, Minn., assignor to Strutwear Knitting Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Jan. 14, 1928. Serial No. 24,875. Term of patent 14 years.



The ornamental design for a stocking substantially as shown.

76,906. SHEET PACKING RACK. JOHN H. VICTOR, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., a Corporation of Illinois. Filed Mar. 23, 1927. Serial No. 21,283. Term of patent 14 years.



The ornamental design for a sheet packing rack as shown and described.

76,907. SADDLE. ROSCOE F. WARREN, Los Angeles, Calif. Filed Dec. 22, 1927. Serial No. 24,597. Term of patent 14 years.

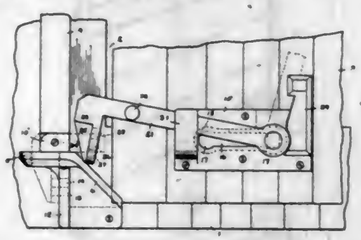


The ornamental design for a saddle, as shown.

# PATENTS

## GRANTED NOVEMBER 13, 1928.

1,691,028. CAR-DOOR LATCH. FRED AXELSON, Northome, Minn. Filed Sept. 26, 1927. Serial No. 222,182. 1 Claim. (Cl. 292—104.)



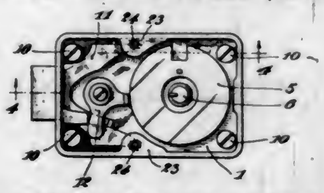
A door holding means of the character described comprising a catch bracket having a hole therein and an inclined face adjacent the hole, said bracket having means for permanent attachment adjacent the door opening, a pivotally mounted dog carried by the door for automatic engagement with the bracket, and means whereby the dog may be adjusted for predetermined spacing of the door ajar.

1,691,029. CONDUCTOR FOR THE TRANSMISSION OF ELECTRICAL ENERGY AND METHOD OF PRODUCING THE SAME. ADOLPH FRANCIS BANDUR, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1924. Serial No. 708,128. 10 Claims. (Cl. 178—45.)



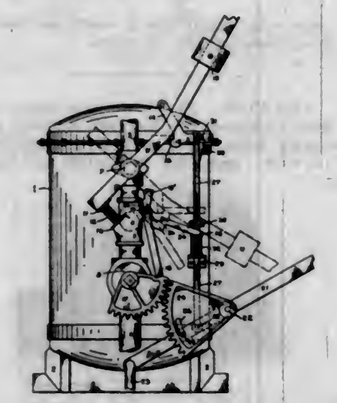
1. A loaded signalling conductor comprising a central conductor, a coating of material thereon which will act as a separator and which will not be consumed on being subjected to heat treatment, and a magnetic loading material wrapped around said central conductor, said loading material requiring heat treatment to give it a desired electrical characteristic.

1,691,030. PROTECTION DEVICE FOR TUMBLER LOCKS. EDGAR M. BENHAM and WILLIAM T. BENHAM, Norwood, Ohio, assignors to The Mosler Lock Company, Covington, Ky., a Corporation of Ohio. Filed Jan. 10, 1927. Serial No. 160,036. 6 Claims. (Cl. 70—53.)



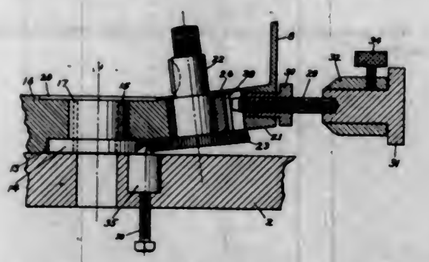
1. The combination with a lock including a bolt bar having a notch, of means, including a plate spring self-engageable in the notch of the bolt bar, for preventing unlocking movement of the bolt bar, and means, including a lock element, for maintaining said plate spring disengaged from the notch of said bolt bar only while said element is in its proper place in the lock assembly.

1,691,031. CONTROL MECHANISM FOR CONCRETE-MIXING APPARATUS. HELGE A. BERLE, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a Corporation of New Jersey. Filed Apr. 14, 1928. Serial No. 270,056. 12 Claims. (Cl. 83—73.)



1. In a device of the character described, the combination of a receptacle having inlet and outlet conduits, a normally open valve in said inlet conduit, a normally closed valve in said outlet conduit, an energized actuating means for said inlet valve, an energizable actuating means for said outlet valve, means normally restraining each of said actuating means, a normally inoperative lock for said energized means and a single control mechanism for initiating release of said restraining means, rendering said lock operative and operating said energizable means.

1,691,032. SHEET-METAL-BENDING MACHINE. WILLIAM BITTNER, Brooklyn, N. Y. Filed Dec. 30, 1927. Serial No. 243,574. 14 Claims. (Cl. 153—29.)



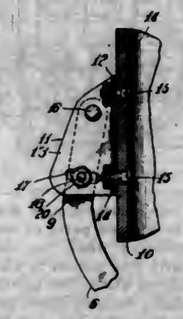
1. In a sheet metal bending machine, at least two rolls spaced apart, means for driving said rolls, means associated with at least one of said rolls for drawing a sheet





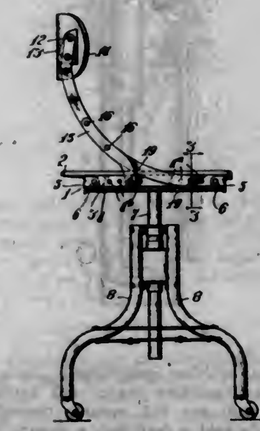
of metal so that a portion passes between said rolls, and a forming device positioned between the peripheries of said rolls and to one side of the line joining their centers, said forming device extending so as to intersect the planes of said rolls and having a face contour which functioning with the rolls, turns the edge of the metal to the desired angle.

1,691,033. CHAIR. ARTHUR J. ADAMS, Bay City, Mich., assignor to William S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Filed July 27, 1925. Serial No. 46,224. 1 Claim. (Cl. 155—160.)



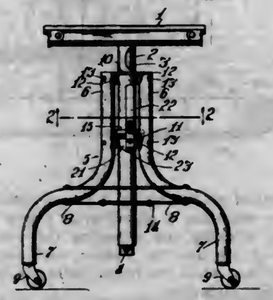
A chair embodying therein, a pair of relatively narrow side arms, a back rest member, brackets fixed on said back rest member and including portions extending at substantially a right angle thereto and wider than said side arms, means providing a pivotal connection between said wider bracket portions and the top ends of said arms, said bracket portions having slots concentric with and below said pivotal connection, and means carried by said arms and extending through said concentric slots for clamping said ends of said arms to said wider bracket portions.

1,691,034. ADJUSTABLE BACK REST FOR CHAIRS. ARTHUR J. ADAMS, Bay City, Mich., assignor to William S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Filed July 27, 1925. Serial No. 46,227. 1 Claim. (Cl. 155—158.)



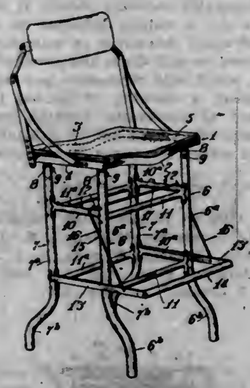
A chair embodying therein a seat frame including side members having front and rear sets of holes therein, a back rest frame comprising a back rest, side arms fixedly secured to the back rest and brace bars rigidly fixed to said side arms at points between the ends thereof, the bottom ends of the side arms and the brace bars being disposed in the same horizontal plane and fixed relative to each other, the bottom end of each side arm and brace bar being provided with openings adapted to register respectively with predetermined holes of said front and rear sets of holes in the side members of said seat frame and means passing through said registering holes to secure said back rest frame in the desired forward or rearward adjusted position on said seat frame without changing the angularity of the back rest or the side arms relative to each other.

1,691,035. SWIVELING CHAIR. ARTHUR J. ADAMS, Bay City, Mich., assignor to William S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Filed July 27, 1925. Serial No. 46,229. 3 Claims. (Cl. 155—138.)



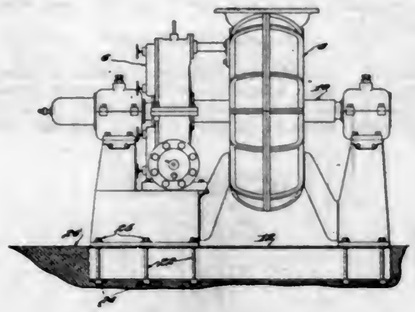
1. A chair embodying therein, a standard comprising a plurality of legs, top and bottom spiders to which said legs are secured, a seat post, a tube rotatively mounted on said post and passing through said spiders, a binding ring on said bottom spider, means carried by said spider for normally urging it into binding action upon said tube, and means also carried by said spider and adapted to be actuated to engage said ring to release its binding action on the tube.

1,691,036. FOOTREST FOR CHAIRS. ARTHUR J. ADAMS, Bay City, Mich., assignor to William S. Ferris, trading as Domore Chair Company, Elkhart, Ind. Filed July 27, 1925. Serial No. 46,230. 8 Claims. (Cl. 155,172.)



8. In combination with a chair having seat and front and rear pairs of legs, a relatively wide, horizontally disposed foot rest member at the front of the chair, means providing parallelogram supporting members, pivoted at their front ends to the foot rest member and at their rear ends to fixed parts of the chair, and means connecting said supporting members with other fixed parts of the chair for holding said supporting members and the associated foot rest member in the desired adjusted position.

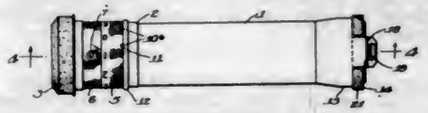
1,691,037. FOUNDATION METHOD. GEORGE W. ALLEN, Hyde Park, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Sept. 18, 1923. Serial No. 663,388. 2 Claims. (Cl. 72—77.)



2. A method of setting up a power installation which consists in mounting a plurality of power units upon a metal base, aligning and adjusting the units, and thereafter setting the base in position and pouring concrete around the base while the power units are mounted thereon in proper alignment.

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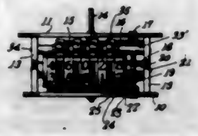
1,691,038. PNEUMATIC-TUBE CARRIER. MAURICE ANDERSON, Chicago, Ill. Filed Dec. 15, 1926. Serial No. 155,052. 8 Claims. (Cl. 243—35.)



1. A carrier for pneumatic tubes comprising a hollow section, a removable enclosing section at one end thereof comprising a sleeve slidably mounted on said section, a series of indicating characters on said sleeve, a ring rotatably mounted on said sleeve and provided with an opening through which said characters may be made to successively appear, a plurality of notches in the edge of said ring and an automatic, locating member adapted to be automatically moved out of and into said notches responsive to rotary movement of said ring.

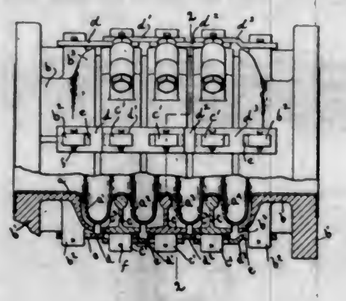
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1,691,039. GEAR TRAIN FOR WATER METERS. ROBERT A. ANDERSON, Montclair, N. J., assignor to Gamon Meter Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 11, 1927. Serial No. 174,606. 2 Claims. (Cl. 64—29.)



1. Phosphor bronze shafts as used in water meters, and sheaths of non-corrodible material secured on said shafts to form a unit therewith, said sheaths acting as journals for members mounted thereon.

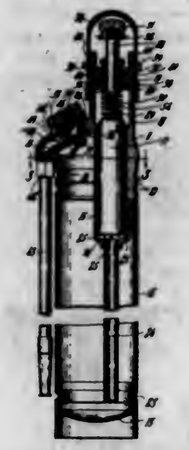
1,691,040. EXPANSION JOINT WITH REGULATING MEANS. ARTHUR C. BADGER, Newton, Mass. Filed Apr. 10, 1922. Serial No. 551,057. 3 Claims. (Cl. 285—90.)



1. An expansion joint comprising a flexible corrugated tube, rings secured to the end parts of said tube, a series of overlapping connecting links, the endmost ones of which are engaged with lost motion to said end rings and all of which have limited ability for movement lengthwise of the joint with respect to each other, and means at the overlaps of adjacent links for engaging the tube between corrugations thereof to limit independent distortion of the separate corrugations.

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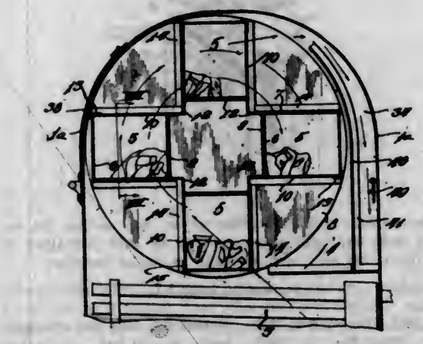
1,691,041. FIRE EXTINGUISHER. ARTHUR C. BADGER, Newton, Mass. Filed Aug. 20, 1925. Serial No. 51,318. 9 Claims. (Cl. 169—31.)



1. A fire extinguisher comprising a casing adapted to hold a fire extinguishing charge and having an inner compartment near one end, opening through such end, and adapted to hold a cartridge, a closure for the open end of said compartment, a plunger movably mounted in said closure and arranged to engage and open said cartridge, and a guard member embracing and crossing the outer end of said plunger, pivoted to the closure at opposite sides of the plunger, and adapted to be turned about its pivots to expose the plunger for application of force to move it inward.



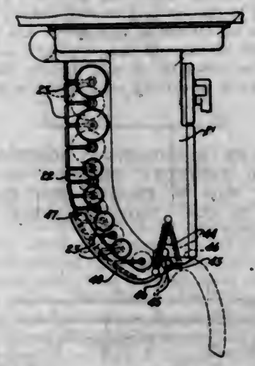
1,691,042. CLOTHES DRIER. DANIEL BELL, Chicago, Ill., assignor to Invincible Laundry Equipment Co., a Corporation of Illinois. Filed Apr. 4, 1927. Serial No. 180,650. 5 Claims. (Cl. 34—5.)



1. In a clothes drying machine, a rotary member having a central closed chamber, and compartments around said closed chamber, and individual clothes holding units removably confined in said compartments.

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1,691,043. WIRE-DRAWING-GUARD. HARRY BLOUNT, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1927. Serial No. 164,200. 10 Claims. (Cl. 205—25.)



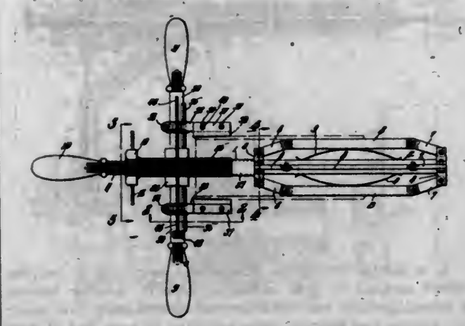
1. In a wire drawing apparatus, a die supporting block a die supported loosely thereon, and a die retaining device comprising means positioned adjacent the block and the die supported thereon for preventing accidental displacement of the die from the block by the action of the wire as it passes through the dies.

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1,691,044. PROCESS OF RENDERING CALCIUM CYANAMIDE FREE FROM DUST. JOSEPH BRESLAUER and EDOUARD DE LUSERNA, Geneva, Switzerland, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland, a Corporation of Switzerland. Filed Jan. 11, 1927, Serial No. 160,517, and in Switzerland Jan. 22, 1926. 6 Claims. (Cl. 23—248.)

1. A process of producing calcium cyanamide free from dust which comprises treating calcium cyanamide with a molten easily fusible acid salt at a temperature low enough to avoid extensive decomposition of the calcium cyanamide.

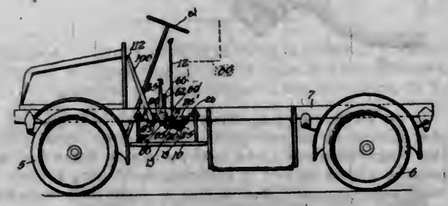
1,691,045. DEVICE FOR CUTTING TUBES. EDMUND BURKE and CHARLES QUINCY IVES, Portland, Me., assignors to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Oct. 4, 1923. Serial No. 666,462. 3 Claims. (Cl. 82—4.)



1. A device of the class described comprising a member having a portion of its length threaded, an internally threaded block engageable with the threads of said member and operatively rotatable on both its threaded and unthreaded portions to advance or not to advance along said member while operating on the work according as the block is rotated on the threaded or unthreaded portion of the member, bars extending from said block, a tool carrier adjustable axially of each bar, and means for attaching said member axially of a tube to be operated upon by tools held by said carriers.

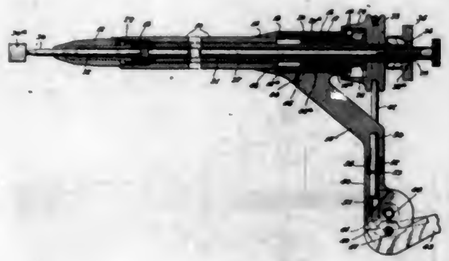
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1,691,046. VEHICLE CONTROL. JOHN G. CARROLL, Chicago, Ill., assignor to Walker Vehicle Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 19, 1924. Serial No. 707,555. 13 Claims. (Cl. 180—77.)



1. In a motor vehicle, the combination of a running board at one side of the vehicle, a driver's seat, a driving motor, a controller therefor, said controller including a controller drum and a drum shaft, a controller lever mounted adjacent the running board and operable therefrom, meshing gear means connecting the controller lever and the drum shaft to turn said shaft by means of the lever, a transverse brake shaft, a service brake pedal on said shaft adjacent the driver's seat, and a service brake operating member mounted on said shaft adjacent the running board and operable therefrom.

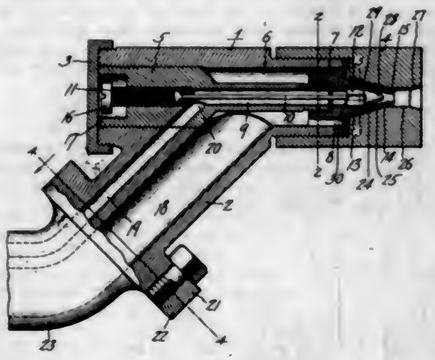
1,691,047. HANDPIECE. HERMAN E. S. CHAYES and AUGUST P. JURGENSEN, New York, N. Y., assignors to Chayes Dental Instrument Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 30, 1925. Serial No. 65,716. 2 Claims. (Cl. 32—15.)



1. A dental handpiece comprising a casing, a bearing sleeve secured to said casing, a bracket member having a barrel portion surrounding and spaced from said bearing sleeve, and bearing rings mounted in each end of said barrel portion and contacting with said bearing sleeve.

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1,691,048. STEAM ATOMIZING OIL BURNER. LOUIS G. DE KERMOR, Edmonton, Alberta, Canada, assignor to Delway Heaters, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 18, 1927. Serial No. 213,721. 2 Claims. (Cl. 158—75.)

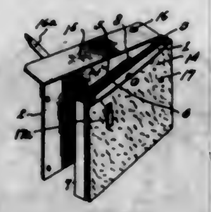


1. An oil burner comprising a tubular body portion, a plug having an oil passage and a forwardly reduced portion cooperating with said body portion to define a steam passage, a block carried by said plug and having a series of longitudinal grooves and having a forwardly extending conoidal portion, a nozzle carried by said body portion and having a central opening spaced from but conforming to the contour of said conoidal portion and a valve operating in said oil passage and presenting a series of longitudinal clearances opening toward the central opening of said nozzle.

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1,691,049. COMBINATION PORTFOLIO AND BRIEFCASE. JAMES D. DOUGLAS, Detroit, Mich. Filed Aug. 25, 1927. Serial No. 215,277. 4 Claims. (Cl. 281—33.)

1. A combination portfolio and briefcase comprising two covers connected at their inner ends, one of said covers having an extension thereon adapted to engage the other cover when the covers are opened up to form a substantially triangular stand, means for supporting leaves between said covers, said extension disposed between the covers and over the leaves when the covers are closed, a briefcase container on the outside of one of the covers, a



flap projecting from the other cover, and means for securing said flap over the open end of said container to hold the latter and said portfolio in closed position.

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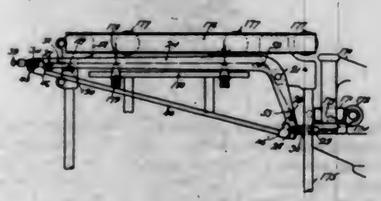
1,691,050. CAN OPENER. FREDERICK DREYER, Chicago, Ill. Filed Jan. 18, 1926. Serial No. 81,945. 5 Claims. (Cl. 30—3.)



1. A can opener having, in combination, a support having a prong on one end adapted to pierce the center of the can cover and to hook underneath the cover when said support lies next to the cover, a carrier slidably mounted on said support, a lug formed on said carrier and adapted to fit over the inside of the end rim, a rotary knife pivotally mounted on the underside of said support, and means for holding said knife in cutting engagement with the side of the can.

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1,691,051. INK-REGULATING MECHANISM FOR EXTENDED-DELIVERY DEVICES OR PRINTING PRESSES. FRED S. ENGLISH, New London, Conn. Filed Mar. 5, 1925. Serial No. 13,344. 17 Claims. (Cl. 101—365.)



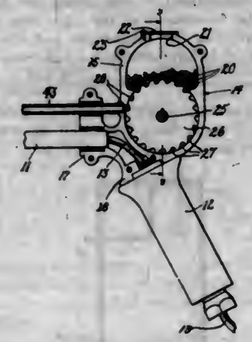
1. The combination with a press having inking mechanism associated therewith, an extended delivery device set off at the end of the press and including a frame and a raising and lowering pile table thereon, and a remote control for said inking mechanism mounted on said delivery frame.

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1,691,052. SOLDERING AND WELDING TOOL AND THE LIKE. JOSEPH WILLIAM FAY, Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1924. Serial No. 731,177. 5 Claims. (Cl. 113—100.)

1. The combination with a tool having a member capable of receiving heat, of means for holding a supply of matter in pellet form, rotatable means for receiving and withdrawing a pellet of said matter from said first mentioned

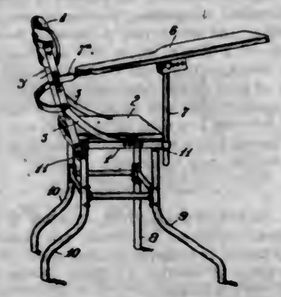




means, and means disposed outside of the tool member for receiving said pellet from the rotatable means and for depositing it upon the outer surface of the tool member.

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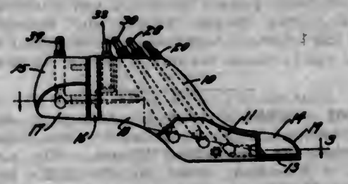
1,691,053. TABLET ARMCHAIR. WILLIAM S. FERRIS, Elkhart, Ind. Filed July 27, 1925. Serial No. 46,199. 1 Claim. (Cl. 155—125.)



A chair embodying therein, a seat frame, pairs of front and rear legs connected to the corners of the seat frame, a tablet arm arranged along the right hand side and above the seat frame and having a portion extending forwardly of the same, the bottom end of the right front leg extending diagonally outward and engaging the floor at a point within the area defined by the forward portion of the tablet arm, the bottom ends of the rear legs being offset rearwardly to extend beyond the vertical plane of the rear end of the seat frame while the other front leg member is straight and an upright member rising from that corner of the seat frame associated with said right front leg for supporting said tablet arm.

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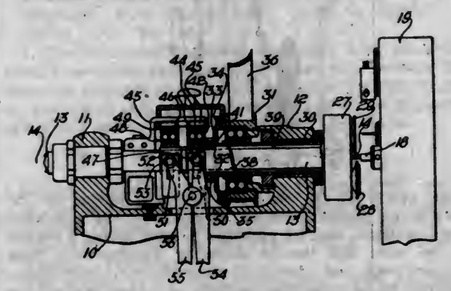
1,691,054. SHOE-STRETCHING LAST. ELIA GALTERIO, Denver, Colo., assignor to Ada Galterio, D. Charles Mariotti, and A. L. Ruggiero, Denver, Colo. Filed July 25, 1927. Serial No. 208,155. 8 Claims. (Cl. 12—128.3.)



1. A shoe stretching last comprising a body portion; vamp stretching members hinged to each side of said body portion; a screw threaded into said body portion; a pointed extremity formed on said screw; actuating members adapted to be separated by said pointed extremity so as to move said vamp stretching members away from said body portion, said actuating members comprising balls; and spring means for causing said balls to bear against opposite sides of said pointed extremity.

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1,691,055. SCREW-FORMING MACHINE. ERNEST GAUTHIER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1925. Serial No. 48,226. 6 Claims. (Cl. 82—20.)

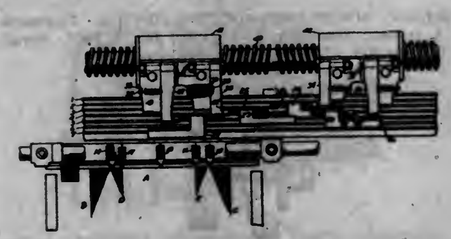


1. In a machine for severing blanks of predetermined lengths from a continuous metal strand, a stationary spindle, means for intermittently advancing the strand axially through said spindle, a tool supporting head carried by and rotatable about the spindle, a severing tool carried by said head and slidable therein toward and away from the strand, means for actuating the severing tool comprising a rack secured to the tool, a pinion gear meshing with said rack, and revoluble means surrounding the stationary spindle for rotating said pinion gear to cause a movement of the severing tool.

5. In a material working machine, a stationary hollow spindle, means for advancing the material through the spindle, a pair of semi-circular sleeves rotatably mounted about the spindle and having rack portions at one end, a tool carrier rotatable with the sleeves, a spiral pinion individual to and meshing with the rack portion of each sleeve, tool holders slidably mounted in the rotatable tool carrier and having rack portions meshing with the spiral pinions, and means for reciprocating the rotating sleeves whereby the tools may be independently controlled to advance them to and away from the material being worked.

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1,691,056. HOSIERY-KNITTING MACHINE. CLAUS THURE M. GREEN, Brooklyn, and FRED H. DOST, Freeport, N. Y., assignors to Julius Kayser & Co., New York, N. Y., a Corporation of New York. Filed Aug. 2, 1927. Serial No. 210,118. 5 Claims. (Cl. 66—129.)



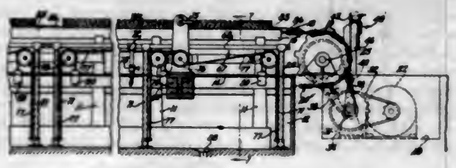
1. In a hosiery knitting machine, the combination comprising abutment heads movable toward or away from each other, abutment levers hinged thereon, and spring plungers arranged to hold said levers in operative or inoperative positions.

1,691,057. LEGGINGS. HENRY C. GERLICH, Brooklyn, N. Y. Filed Nov. 15, 1927. Serial No. 233,342. 1 Claim. (Cl. 2—227.)



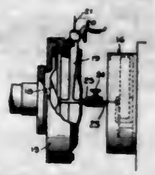
An article of the character described having an expansible leg enclosing portion of comparatively nonelastic fabric material, said leg enclosing portion having a cut-out at the inner side thereof extending longitudinally from its lower edge, and a length of comparatively highly elastic material folded upon itself entirely occupying said cut-out and secured at its longitudinal edges to the body fabric of said leg portion, and an elastic strap within the fold of said fabric material extending beyond the opposite edges thereof and attached at its ends to the lower edge of said leg portion and acting independently of said inserted elastic material to yieldingly resist expansion of said leg portion at the lower edge thereof.

1,691,058. MATERIAL-TREATING APPARATUS. HANS HENRIK CHRISTIAN GRONDAHL, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1926. Serial No. 126,167. 6 Claims. (Cl. 266—6.)



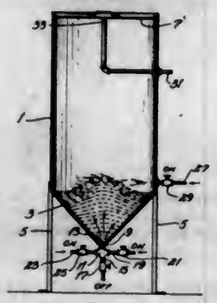
1. In material treating apparatus, an endless horizontal material conveying means, a driving means therefor, means for spraying a fluid upon material associated with the conveying means, and means for vertically adjusting the position of the spraying means.

1,691,059. SOUND-REPRODUCING DEVICE. THEODORE A. HARRIS, New York, N. Y. Filed Jan. 8, 1927. Serial No. 159,795. 7 Claims. (Cl. 179—100.1.)



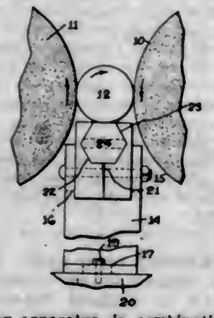
1. In a device of the character described, in combination, a pivotal phonograph tone arm, a sound box carried by the end thereof and including a vibratable diaphragm, an independent reproducing unit including a vibratable element, said unit being so mounted and positioned as (a) to permit normal utilization of the tone arm and sound box and (b) to be encountered by the sound box after a predetermined pivotal movement of the tone arm, and means for removably securing the diaphragm and the vibratable element together when said encounter has been effected.

1,691,060. CLEANING APPARATUS. BENJAMIN L. HARRISON, Maplewood, Mo. Filed Feb. 27, 1926. Serial No. 91,079. 2 Claims. (Cl. 210—51.)



1. The method of reclaiming solvent and the like from sludge and the like, whereby the solvent is saved and sludge rendered harmless comprising passing at one time solvent carrying sludge and water into a chamber having an overflow therein to a depth below the overflow, mixing the sludge and water settling out the sludge and water below the solvent of said sludge, passing water into the chamber below the upper sludge and water surface whereby solvent is decanted into the overflow, shutting off said water before sludge and water reach the overflow, and then draining the sludge and water from the tank.

1,691,061. GRINDING DEVICE. LEWIS R. HEIM, Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 17, 1921. Serial No. 508,125. 3 Claims. (Cl. 51—238.)

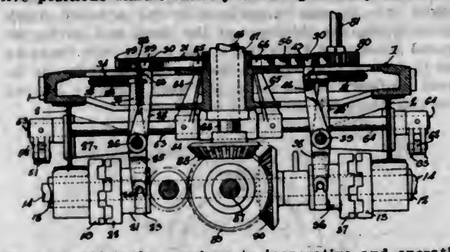


1. In grinding apparatus, in combination, a work supporting member having a recess throughout its length, and a wear-resisting member fitted into and interlocked with said supporting member substantially throughout its length and adjustable with respect thereto about its longitudinal axis to change the surface exposed for wear.

1,691,062. STEERING GEAR. ARTHUR G. HENRICKS and HOLGER L. MITCHELL, Milwaukee, Wis., assignors to Harnischfeger Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 26, 1925. Serial No. 4,800. 21 Claims. (Cl. 180—9.2.)

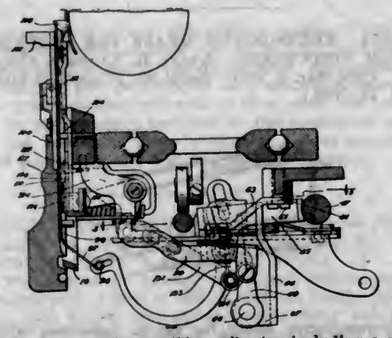
18. In steering gear of the character described, the combination of a plurality of clutches, a brake member associated with each of said clutches, and a cam member adapted to effect movement of said clutches to operative and inoperative positions simultaneously or independently and move-





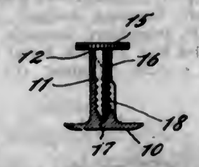
ment of said brake members to inoperative and operative positions simultaneously or independently, said cam member effecting positive and gradual application and release of said brake members.

1,691,063. TYPEWRITER. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Sept. 22, 1924. Serial No. 738,982. 20 Claims. (Cl. 197—159.)



1. In a typewriter, a ribbon vibrator including a ribbon guide, a line finder, and a stop for said ribbon vibrator connected with said line finder, said ribbon vibrator having an abutment in fixed relation with said ribbon guide for contacting with said stop.

1,691,064. FASTENING DEVICE. OLGA I. HOPPE, Kew Gardens, N. Y. Filed Mar. 9, 1925. Serial No. 14,032. 4 Claims. (Cl. 85—4.)



1. A fastening device consisting of a base portion having a hollow stem sharply pointed and provided with an internal thread and a top part having a threaded shank to engage said hollow stem and a head positioned at the end of the said stem opposite the base when said parts are in fastening position.

1,691,065. PROCESS OF MAKING DIPOLYMER. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,811. 8 Claims. (Cl. 134—56.)

7. The process of preparing "Dipolymer" which includes subjecting pine oil to heat and the action of a neutral catalyst to effect dehydration and finally polymerization of a substantial proportion of the pine oil.

1,691,066. DEHYDRATION PRODUCTS OF PINE OIL AND PROCESS OF PRODUCING SAME. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,813. 10 Claims. (Cl. 134—56.)

1. The process of producing a turpentine substitute from pine oil which includes dehydrating the pine oil with a halogen.

1,691,067. PROCESS OF MAKING DIPOLYMER. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,816. 7 Claims. (Cl. 134—56.)

1. The process of preparing Dipolymer from dipentene which comprises vaporizing dipentene and passing the vapors in intimate contact with a catalyst for such length of time and at such temperature as will effect the polymerization of a substantial part of the dipentene vapors.

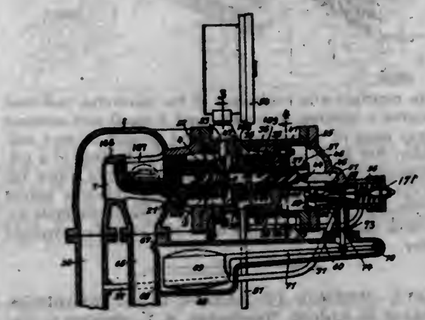
1,691,068. PROCESS OF MAKING DIPOLYMER. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,817. 1 Claim. (Cl. 134—56.)

The process of preparing "Dipolymer" from dipentene which includes treating dipentene with heat in the presence of a metallic chloride for a sufficient time to effect conversion thereof into di and higher polymers.

1,691,069. PROCESS OF MAKING DIPOLYMER. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,818. 2 Claims. (Cl. 134—56.)

1. The process of preparing "Dipolymer" from pine oil, which includes treating pine oil with a metallic chloride and heat to effect dehydration of components of the pine oil and the formation of dipentene and continuing the treatment for a time sufficient to effect conversion of a substantial proportion thereof and of the dipentene into di and higher polymers.

1,691,070. APPARATUS FOR DISPENSING LIQUIDS. ERNST HURLBRINK, Berlin, Germany, assignor to Martini & Huneke Maschinenbau Aktien-Gesellschaft, Berlin, Germany, a Corporation of Germany. Filed June 9, 1927, Serial No. 197,541, and in Germany Sept. 25, 1925. 7 Claims. (Cl. 73—28.)

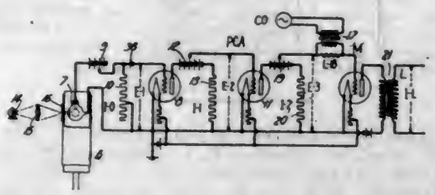


1. An apparatus for measuring liquids, comprising a measuring vessel, a conduit through which the liquid to be measured is delivered under pressure to said vessel, a valve in said conduit, a cylinder, a plunger therein, a spring constantly urging the plunger in one direction, connecting means between said plunger and said valve whereby movement of the plunger by said resilient means actuates

said valve, means for diverting the pressure from the conduit to said cylinder to force the plunger in the opposite direction when the liquid reaches a predetermined level in said vessel, and means operative at the end of the plunger stroke in said opposite direction to relieve the plunger of the pressure of the liquid.

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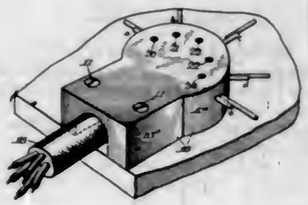
1,691,071. TRANSMISSION OF PICTURES BY ELECTRICITY. HERBERT E. IVES, Montclair, and MAURICE B. LONG, Glen Ridge, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 14, 1924. Serial No. 713,362. 9 Claims. (Cl. 178—7.)



7. In a system for the transmission of pictures by electricity, a source of carrier waves, means to modulate carrier waves from said source to produce modulated carrier waves having amplitudes which vary between two finite limiting values, neither of which is zero, corresponding to variations in the tone values of elemental areas of a picture between black and white, and detecting means for producing from said modulated carrier waves a picture the tone values of the elemental areas of which vary between black and white corresponding to the original.

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1,691,072. CONNECTION DEVICE. HOWARD B. JONES, Evanston, Ill. Filed May 15, 1925. Serial No. 30,456. 6 Claims. (Cl. 173—353.)

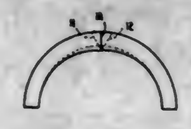


1. In multiple-wire cable unit of the character described comprising a multiple-wire cable and a small and compact terminal head of insulating material formed to seat substantially flat and having an open bottom leading to a hollow interior, the head having a passageway into which the cable extends, walls of the head having openings spaced apart through which respectively the wires of the cable extend, with means holding the cable and the head strongly together.

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1,691,073. METHOD OF MAKING LINED BEARINGS. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1928. Serial No. 282,971. 13 Claims. (Cl. 29—149.5.)

1. In a method of making lined tubular bearings, the steps which consist in forming a rectangular blank from sheet stock having a considerable tensile strength and inherent resiliency, forming said blank into cylindrical shell with the grain of the metal in said blank extending longitudinally of said shell while flowing the metal circumferentially into an end engagement having a radial depth approximating the thickness of the blank and having an opposed pressure in the metal acting across such engaging ends to maintain the same in closed engagement by the inherent resiliency of the metal, and then casting a bearing alloy over the inner surface of said shell.



13. In a method of making cylindrical shells for lined tubular bearings, the steps which consist in forming a blank from sheet stock of greater length than the circumference of the desired finished bearing, and forming said blank into a cylindrical shell while causing the excess metal in the blank to be upset into an end engagement having a radial length approximating the thickness of the blank.

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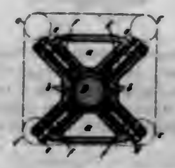
1,691,074. REENFORCING MEANS FOR CONCRETE-BEAM STRUCTURES. HENRY H. LAMPERT, Chicago, Ill. Filed Mar. 5, 1927. Serial No. 173,106. 3 Claims. (Cl. 72—109.)



1. A reenforcing device for use in connection with a structural element comprising a pair of substantially parallel reenforcing rods, and a pair of tie wires crossed and relatively movable at their medial parts and connected to said rods at points removed from said medial parts whereby said parallel rods have a limited relative movement toward and away from each other.

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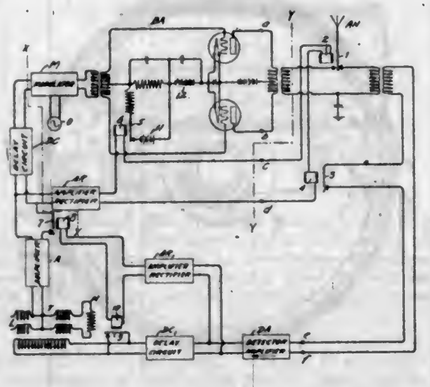
1,691,075. MANDREL-UPSETTING PRESS. LUDWIG LÖWY, Dusseldorf, Germany, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany, a Corporation of Germany. Filed Mar. 25, 1926, Serial No. 97,252, and in Germany Apr. 1, 1926. 5 Claims. (Cl. 78—17.)



1. In a mandrel upsetting press, the combination with a casing, of a plurality of movable arcuate members concentrically positioned in said casing, means for adjusting said members relative to each other, means for upsetting a mandrel positioned within said arcuate members, and mechanism for rigidly maintaining said movable arcuate members in position during said upsetting.



1,691,076. TWO-WAY RADIO SIGNALING SYSTEM. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1924. Serial No. 698,353. 24 Claims. (Cl. 250—9.)



1. A signaling circuit comprising a source of modulating waves, means utilizing the waves from said source for producing a signal modulated wave, and means for transmitting the elements of said modulated wave at equal predetermined intervals of time after the production of corresponding elements of the modulating wave, said last mentioned means comprising a delay circuit between said source and said first mentioned means.

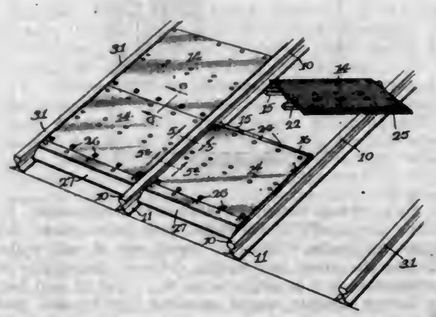
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1,691,077. SPENT-SOIL COMPOST. RICHARD HENRY MORRIS, 3d, Philadelphia, Pa. Filed Aug. 20, 1925. Serial No. 51,332. 8 Claims. (Cl. 71—6.)

1. The method of forming a compost, which consists in maintaining a bed of soil containing twenty percent fibrous peat mixed with eighty percent straw and horse manure, at a temperature of approximately 60° F., and moist for longer than three months, while cultivating mushrooms therein; said peat being primarily alkaline and inoculated with a substance toxic to mushroom disease germs; then shredding the mixture aforesaid to break up the fibrous portions thereof and mixing the same substantially uniformly throughout the mass.

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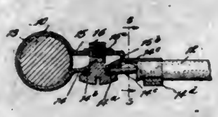
1,691,078. RAILWAY CROSSING. DANIEL C. MULVIHILL, Hannibal, Mo. Filed May 5, 1928. Serial No. 275,423. 11 Claims. (Cl. 238—8.)



1. A railway crossing comprising a plurality of similar units connected together, each unit comprising a plate having openings through one end thereof, a support rigidly connected to the opposite end of said plate and extending beyond the sides and end thereof, and an intermediate support rigidly secured to said plate and extending parallel to said first named support, the ends of said supports being coped to provide clearance for a railway wheel flange.

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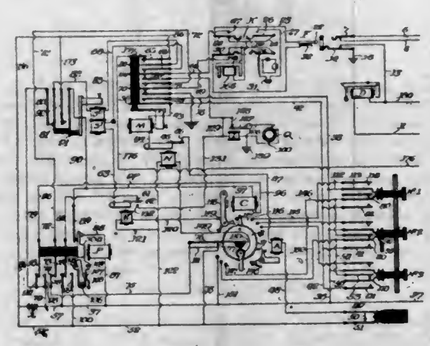
1,691,079. TERMINAL CLAMP FOR STORAGE BATTERIES. ROBERT J. NIGHTINGALE, East Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Apr. 10, 1922. Serial No. 551,084. 1 Claim. (Cl. 173—259.1.)



In combination, a storage battery terminal post, a clamp having a socket portion adapted to encircle the post and having substantially parallel outstanding end portions, a fastening device extending transversely through said outstanding portions, one of said outstanding portions having its end bent inwardly to form an abutment and the other outstanding portion having an inwardly offset extension adapted to engage the abutment and projecting beyond the abutment, said extension being formed to embrace a conductor, and a conductor having an insulated portion received in said extension, said conductor being secured to the clamp under the fastening device.

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1,691,080. PARTY-LINE TELEPHONE EXCHANGE. NILS E. NORSTROM, Chicago, Ill. Filed June 24, 1926. Serial No. 118,136. 16 Claims. (Cl. 179—33.)



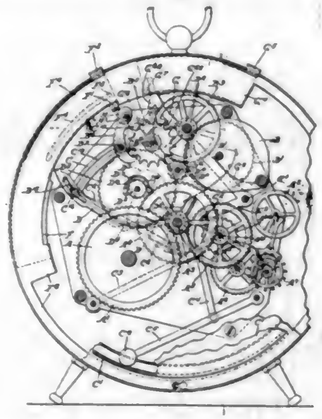
1. A slow speed pole changer, a master switch having wipers insulated from each other and a series of contact points in the path of each wiper, and means including a battery and connections so arranged that the master switch will make one forward step at each alternation of the pole changers.

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1,691,081. ALARM OF VARIABLE INTENSITY. RAYMOND C. PIERCE, St. Louis, Mo. Continuation of application Serial No. 503,780, filed Sept. 28, 1921. This application filed July 28, 1922. Serial No. 578,058. 15 Claims. (Cl. 58—16.)

1. An alarm clock comprising an alarm mechanism and means for actuating it, a percussion element operated thereby and means intermediate the alarm mechanism and

the percussion element for increasing the impact of the percussion element on the bell, progressively from substantially no impact to a predetermined maximum impact,



and means for suddenly reducing the impact to a minimum and again gradually increasing it to a maximum in a recurrent cycle.

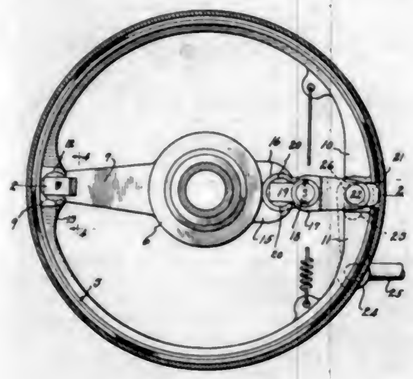
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1,691,082. SUPPORTING DEVICE FOR SOCKS AND THE LIKE. OVIDIO ROQUE PODESTÁ, Buenos Aires, Argentina. Filed Jan. 19, 1927, Serial No. 162,119, and in Argentina June 12, 1926. 1 Claim. (Cl. 241—1.)



A sock support comprising an elongated rigid rectangular frame embodying a pair of flat rods arranged in spaced, parallel relation, and a plurality of transverse guides connecting the same; a narrow, flexible bar slidable endwise between said rods and beneath said guides and provided with a longitudinal series of orifices; a pin secured to the frame and interchangeably engaging said orifices to retain the bar in adjusted position with relation to said frame, said pin being removed from such engagement by flexing the bar away from the frame by lateral pressure applied directly against its back through the space between the rods; and a fastener attached to the upper end of the frame to engage the edge of the sock.

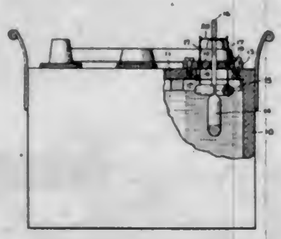
1,691,083. VEHICLE BRAKE. JOY S. REYNOLDS, Detroit, Mich. Filed Oct. 10, 1925. Serial No. 61,653. 7 Claims. (Cl. 188—78.)



1. In a vehicle brake, the combination with a rotatable brake drum and stationary axle housing, of a plate mounted on the housing, a split internal expanding brake band within the drum, a lever within the drum pivoted on the said housing, a hinge connection between an end of the lever and the band at a point practically opposite the split point, a second lever, a stationary pivot therefor carried by the plate, a cam having a single point positioned between the two ends of the band, a shaft for the cam, the second lever having one end pivotally connected with the shaft a slot in the plate through which the shaft extends permitting movement of the shaft, the said second lever having its opposite end in hinged connection with an arm of the first lever, the arms of said levers being substantially in such relationship that the pressure applied by the cam to expand the band is also equally applied at the point of the hinged connection of the first named lever with the band, the said levers limiting the extent of rotative movement of the band with the drum.

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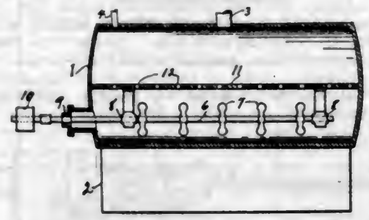
1,691,084. DEVICE FOR INDICATING DENSITY OF LIQUIDS. FRANK SCHWARTZ, New York, N. Y. Filed Oct. 6, 1926. Serial No. 139,934. 4 Claims. (Cl. 136—182.)



1. In a storage battery, a device for continuously indicating the density of the liquid, said device comprising two floating bodies within the liquid, one of said bodies encircling the other and having different characteristics of submersion per density-change, the cover of said battery having suitable spaced openings therein, and said bodies having indicating portion extending outwardly through said openings into mutually proximate positions, the indicating portion associated with the encircling body serving to retain the latter against rotation.



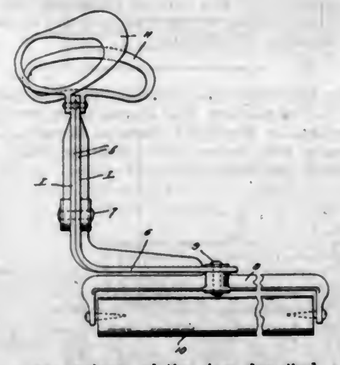
1,691,085. PROCESS OF TREATING HYDROCARBONS. ALFRED SCHWARZ, Montclair, N. J., assignor to Petroleum Sand Products Corporation, a Corporation of Delaware. Filed Mar. 1, 1924. Serial No. 696,146. 2 Claims. (Cl. 196—68.)



1. The process which comprises heating heavy oil sufficiently to evolve vapor and violently agitating the vapor and oil while being heated to a cracking temperature by means of an agitator rotating at a speed of about 400 to 600 revolutions per minute thereby forming a vapor-oil emulsion.

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1,691,086. MOP WRINGER. ROLAND S. SCHWARZ, Sr., Huntington, W. Va. Filed Feb. 7, 1928. Serial No. 252,481. 3 Claims. (Cl. 15—202.)



1. In a mop wringer of the class described, a pair of substantially L-shaped members each including a pair of arms angularly disposed with respect to each other, means pivoting the intermediate portions of two of the arms together, the other two arms extending away from the plane of movement of the first mentioned two arms in the same direction with respect to each other, and mop wringing elements on the second mentioned two arms.

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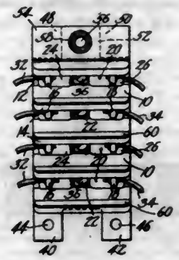
1,691,087. MARGARINE COMPOSITION. JOHN C. SHERMAN, Portland, Me., assignor to Brown Company, Portland, Me., a Corporation of Maine. Filed Dec. 9, 1922. Serial No. 605,978. 11 Claims. (Cl. 99—13.)

6. A margarine composition substantially free from water and comprising hydrogenated peanut oil which is substantially solid at ordinary temperatures and is liquefiable by heat, and a dry milk-like product of peanuts in a state of such fine subdivision that the particles thereof, being in homogeneous mixture with said oil, constitute the disperse phase of a colloid of which the oil is the dispersion medium.

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1,691,088. TERMINAL BLOCK. AUGUST L. STARKE, Brookhaven, N. Y., assignor to Insulation Manufacturing Company, Inc., a Corporation of New York. Filed Jan. 3, 1927. Serial No. 158,620. 4 Claims. (Cl. 175—298.)

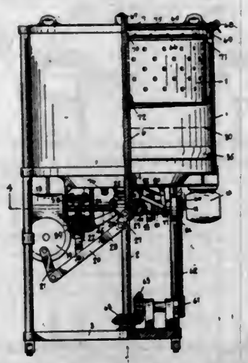
1. A terminal block which comprises a body of insulating material having grooves in its forward surface to form a back plate and a series of spaced horizontal partitions projecting forwardly therefrom, and a series of terminal plates one in the bottom of each of said grooves between said partitions and removably secured between its ends



to the bottom of said groove, and binding means embedded in the block at the bottom of said groove and having a removable connection to said terminal plate.

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1,691,089. WASHING MACHINE. JACOB F. STEINHELFER, Toledo, Ohio. Filed Nov. 25, 1927. Serial No. 235,417. 5 Claims. (Cl. 68—37.)



1. In a washing machine, an article containing drum, a member for reciprocating the drum, a rotatable member for rotating the drum, a driving means, a clutch for connecting the driving means with either the member for reciprocating the drum or the member for rotating the drum the clutch having a part operated by the member for reciprocating the drum for operating the clutch when the path of the movement of the drum reciprocating member in its reciprocation is altered, and means for altering the path of the reciprocating movements of the member for reciprocating the drum.

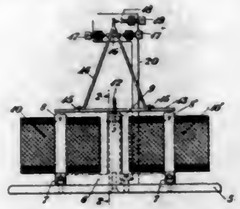
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1,691,090. SHIPPING TAG. SWAN NILS TEVANDER, Maywood, Ill. Filed Aug. 15, 1923. Serial No. 657,466. 1 Claim. (Cl. 40—27.)



A laminated tag comprising a layer of metal and a layer of softer sheet material such as paper coextensive with the metal and adherent thereto with the marginal area doubled over into a bead or hem with the metal extending around and forming the extreme outer layer of the bead or hem embracing the softer material to protect it against rupture or separation from the metal.

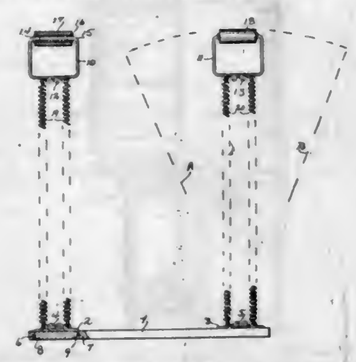
1,691,091. ALTERNATING-CURRENT RELAY. ELMER O. THOMPSON, Tomkinsville, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 19, 1922. Serial No. 576,049. 3 Claims. (Cl. 200—91.)



1. A relay comprising a yoke, said yoke having a plurality of vertical cores, an armature, a torsional support for the armature, and a vibrating contact member mounted longitudinally of said armature.

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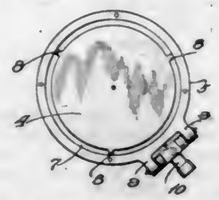
1,691,092. EXERCISING DEVICE. WEIMER HARRY TITUS, New York, N. Y. Filed Mar. 6, 1926. Serial No. 92,928. 2 Claims. (Cl. 272—79.)



1. An exerciser comprising a floor member, a plurality of wire members extending therethrough, the ends of said wire members being bent inwardly upon the underside of said board, grip members and a plurality of spring members between each said wire member and its co-operating grip member.

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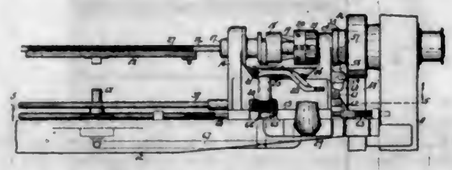
1,691,093. DIAPHRAGM AND MOUNTING THEREFOR. EDWARD TOMAN, Chicago, Ill., assignor to E. Toman & Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1926. Serial No. 103,428. 1 Claim. (Cl. 181—31.)



In a device of the class described, an annular casing having an internal flange, a ring of resilient material on the flange diaphragm positioning means, a diaphragm positioned on said ring so that only the extreme edge of the diaphragm for a major portion of the periphery thereof engages said ring, said diaphragm positioning means comprising narrow radial prongs at widely spaced intervals on the periphery of said diaphragm to engage said ring and said casing, and thereby to suitably position said diaphragm and to substantially prevent lateral displacement of said diaphragm in said casing.

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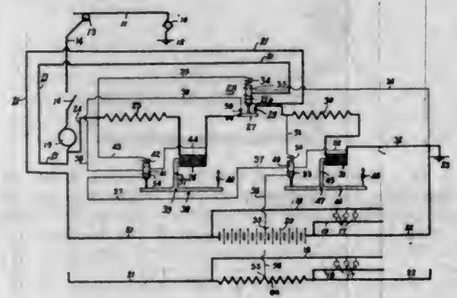
1,691,094. MACHINE FOR TWISTING WIRES WITH MATERIAL THEREBETWEEN. ANTON VAN VEEN, West Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed July 3, 1926. Serial No. 120,359. 21 Claims. (Cl. 140—71.)



1. A wire twisting machine comprising a rotatable spindle having means for holding wires to be twisted, a driving member mounted on said spindle, a clutch comprising clutch members between said driving member and spindle and including a stop movably mounted to effect release and engagement of said clutch, means for imparting movement to said stop to effect one of said operations, and means governed by the twisting operation for effecting the other operation of said stop.

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1,691,095. ELECTRICAL SYSTEM OF DISTRIBUTION. LOUIS H. VON OHLSEN, New Haven, Conn., assignor to The Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Feb. 20, 1926. Serial No. 89,619. 20 Claims. (Cl. 171—313.)



2. In apparatus of the character described, in combination, a source of current having serially connected thereto a translating device and a storage battery, a by-pass circuit in shunt relation to said storage battery and having included therein two variable resistance units, coils each responsive to a function of the current supplied to said storage battery and each adapted to control one of said variable resistance units, and means operative upon each of said coils and arranged to affect the operation of its associated coil so that each variable resistance unit is prevented from exceeding a predetermined ratio of its range of action with respect to the range of action of the other variable resistance unit.

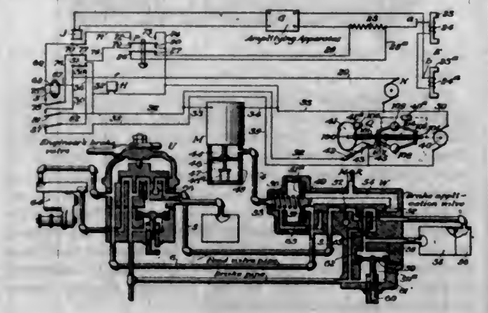
5. In apparatus of the character described, in combination, a source of current and a current-consuming device connected thereto; and means for controlling a function of the current supplied to said device from said source comprising a plurality of regulators, and means arranged to insure a division of the controlling function between said regulators in accordance substantially with their respective regulating capacities.

16. In apparatus of the character described, in combination, a circuit having included therein a source of current, a translating device and a storage battery in series, a by-pass circuit shunted about said storage battery and having included therein means for controlling the division of current therebetween and said battery in substantial accordance with the state of charge of said battery, and means responsive to effective condition of said first-mentioned circuit adapted to close said by-pass circuit.



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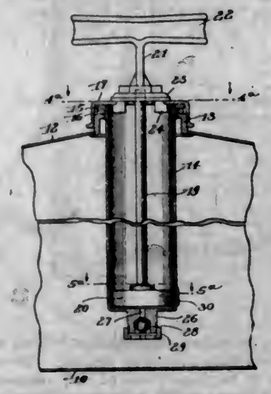
1,691,096. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HERBERT A. WALLACE, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 20, 1923. Serial No. 669,739. 21 Claims. (Cl. 246—63.)



1. Railway traffic controlling apparatus comprising automatic fluid pressure braking mechanism on a train, means responsive to traffic conditions in advance for at times actuating said mechanism, and slow acting means including an electric motor for subsequently preventing such mechanism from being manually restored to its normal condition for a given time interval.

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1,691,097. SPRAYING APPARATUS. GILBERT C. WATERS, Jr., Rochester, N. Y., assignor to The E. C. Brown Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 8, 1927. Serial No. 182,087. 5 Claims. (Cl. 299—96.)

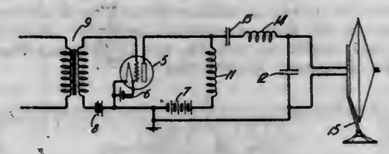


1. In an apparatus of the class described, the combination of a liquid holding container, a pump extending therein for pumping air thereto comprising a piston and a cylinder for the same having a valve adapted to check the flow of liquid from the container to the cylinder, operating means for the piston arranged to cooperate with the cylinder to limit inward movement of the piston to a predetermined point during the pumping operations and being adjustable to permit the piston to have an extended movement inwardly of said point and a by-pass for relieving the pressure of air trapped within the cylinder as a result of said extended movement.

2. In an apparatus of the class described, the combination of a liquid holding container, a pump extending therein for pumping air thereto, said pump comprising a piston and a cylinder therefor having a valve for checking the flow of liquid from the tank to the cylinder, an adjustable operating rod for the piston projecting through the outer end wall of the cylinder, means upon the rod adapted in one position of adjustment thereof to engage said wall whereby to limit inward movement of the piston and adapted in an extended position of the piston to project through said wall for locking engagement with the inner face thereof and a by-pass for relieving pressure in the cylinder when the piston is moved to said extended position.

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1,691,098. MEANS FOR COUPLING CIRCUITS OF DIFFERENT IMPEDANCE CHARACTERISTICS. DONALD F. WHITING, Port Washington, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1926. Serial No. 134,721. 5 Claims. (Cl. 178—44.)



1. A circuit arrangement for coupling circuits of different impedance-frequency characteristics to transmit waves of a plurality of frequencies therebetween, comprising a plurality of reactive impedance elements forming with the circuits to be coupled a plurality of parallel circuits resonant at different frequencies to be transmitted the element being so proportioned that the impedance at the terminals of each of the circuits to be coupled is substantially equal to the impedance of the respective circuit.

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1,691,099. ELECTRICAL RECEIVER. HENRY M. WILLIAMSON, Chicago, Ill., assignor to Johnson-Williamson Laboratories, Incorporated, a Corporation of Illinois. Filed July 12, 1923. Serial No. 650,981. 2 Claims. (Cl. 175—339.)



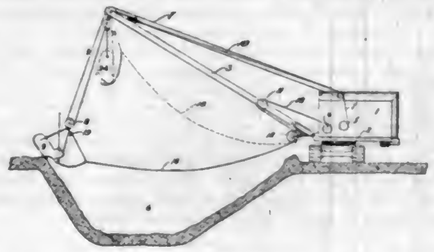
1. An electrical receiver including in combination a magnet, pole pieces for said magnet, an armature element disposed between said pole pieces, a continuous torsional spring, fixed at its ends, constituting a mounting for said armature element and of sufficient strength to normally retain said armature element in substantially a median position between and to prevent its contact with said pole pieces, and windings for receiving current to cause said armature to be attracted and repelled by said magnet.

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1,691,100. DRAGLINE ARRANGEMENT. EMERY J. WILSON, Cleveland, Ohio, assignor to The Thew Shovel Company, Lorain, Ohio, a Corporation of Ohio. Filed Apr. 16, 1926. Serial No. 102,478. 2 Claims. (Cl. 37—116.)

1. A drag line arrangement comprising a turn-table, a boom hinged at its heel to one end of said table, a winding

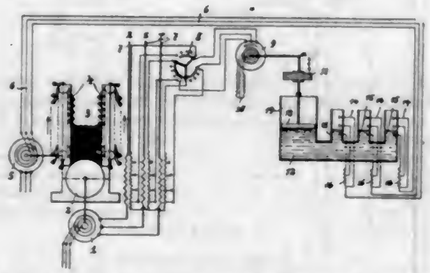
drum on said table adjacent the heel of said boom, a sheave carried by said boom and spaced thereon from said drum, a sheave mounted for lateral swinging movement adjacent



the heel of said boom, a scoop adjustably suspended from the free end of said boom, and a drag line passing from said drum, over said sheaves in the order named and to said scoop.

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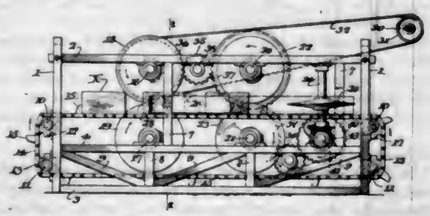
1,691,101. WOOD GRINDER. XAVER WINKLER, Weisenbachfabrik, Germany, assignor to the Firm E. Holtzmann & Cie. A.-G., Weisenbachfabrik, Germany. Filed Sept. 3, 1927, Serial No. 217,374, and in Germany Sept. 6, 1926. 8 Claims. (Cl. 83—75.)



8. In a wood-grinder the combination with a rotating grindstone, electric driving means for the stone and electrically operated wood-feeding means cooperating therewith, a stepped rotary magnetic switch, controlling means for said switch, operatively connected to the stone-driving means, a liquid-container, a supply of mercury in said container, means operatively connected to the magnetic switch and operatively associatted with the mercury and adapted to change the level thereof, and current regulating and proportioning means on the container and connected to the wood-feeding means and adapted for differently extensive engagement with the mercury of the container.

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1,691,102. WOOD SPLITTING MACHINE. GEORGE S. WITHAM, Sr., Hudson Falls, N. Y., assignor to Ramar Syndicate, Inc., Norfolk, Va., a Corporation of Virginia. Filed May 31, 1927. Serial No. 195,337. 7 Claims. (Cl. 144—193.)



1. A wood splitting machine comprising a frame, an endless chain carriage for supporting and moving wood blocks and a plurality of pairs of disks arranged in vertical and horizontal planes and positioned to act in sequence upon said blocks and split the same along a plurality of planes by a single passage through the machine, the discs of each pair having their edges in alignment and close together.

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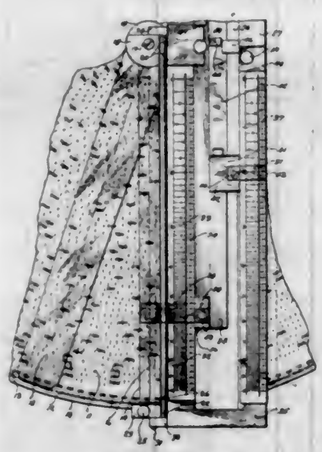
1,691,103. MATERIAL-WORKING APPARATUS. THORNTON MCDUFFEY YANCEY, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 3, 1926. Serial No. 133,381. 11 Claims. (Cl. 117—16.)



1. In a material working apparatus, material working means, a single element for individually feeding materials thereto under an equal tension within a predetermined range, means cooperating with the feeding element to maintain the necessary friction between the material and the element and for moving the worked material from the working means, the material moving means permitting the material to slip on the feeding element when the tension on the material at opposite sides of the element reaches a predetermined point, and means for operating the material feeding element and the worked material moving means at different predetermined speeds.

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1,691,104. CALCULATING DEVICE. JOHN GUSTAV ZOLLMAN, Chicago, Ill. Filed May 3, 1926. Serial No. 106,204. 1 Claim. (Cl. 235—70.)



A slide rule comprising a single disc having a series of numbered graduations arranged spirally thereon spaced proportionately to the logarithms of such numbered graduations, two relatively movable indicators pivotally mounted to turn about the center of said disc, and a straight slide rule connected to one of said indicators with a scale thereon having the "1" and "10" marks at the same distances from the center of the disc as the "1" and "10" marks on the spirally arranged graduations, and an indicator on said straight slide rule adapted to give the approximate numerical result of the calculation with the straight slide rule and simultaneously indicate on which spiral to read the accurate result.



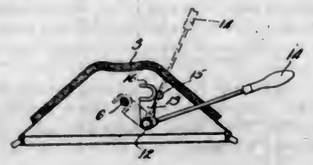
1,691,105. LANDING GEAR FOR AIRPLANES. GUISEPPE MARIO BELLANCA, Passaic, N. J. Filed Sept. 16, 1926. Serial No. 135,771. 7 Claims. (Cl. 244—2.)



7. In a landing gear for airplanes, a pair of girder members adapted to be attached at their upper ends to the fuselage of an airplane, said girder members being spaced apart longitudinally of the fuselage, and a landing wheel supported between the lower ends of said girder members.

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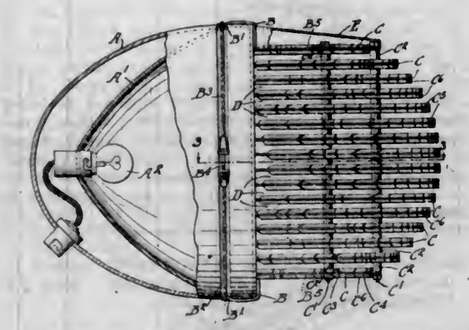
1,691,106. NECKBAND AND ATTACHED-COLLAR IRONING MACHINE. DANA H. BENJAMIN, Cleveland, Heights, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 18, 1926. Serial No. 89,167. 2 Claims. (Cl. 68—9.)



1. In a machine of the class described, a pair of ironing members relatively movable to open and close, and to and from registry, and means for adjustably limiting said movement from registry, to expose portions of the buck ironing member adapted to receive a shirt neckband with or without attached collar, whereby after return to registry the ironing members will close upon the neckband only or neckband with attached collar.

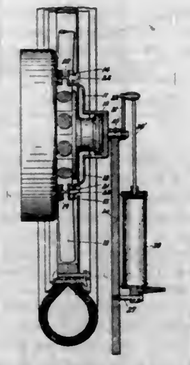
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1,691,107. ANTIGLARE DEVICE. GUY W. BLACKBURN, Elgin, Ill. Filed Nov. 7, 1927. Serial No. 231,435. 8 Claims. (Cl. 240—48.4.)



7. In an anti-glare device for a lamp, a plurality of superposed groups of deflector members, the members of each group being arranged in a horizontal plane, each such group including a plurality of longitudinally extended deflectors laterally inclined across the main axis of the lamp, each such group including a pair of opposed plates having deflector members upset therefrom, a portion of each such deflector member projecting upwardly from the upper plate of each pair and another portion of each said deflector member projecting downwardly from the lower plate.

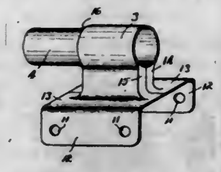
1,691,108. POWER TIRE PUMP. CARL P. BROCKWAY, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Jan. 6, 1921. Serial No. 435,380. 3 Claims. (Cl. 230—214.)



1. In a device of the class described, the combination of a central member adapted to pass over the wheel hub of an automobile, extensions on said member for clamping the same to the supports of the hub, an outwardly extending stub shaft carried by said central member, a support for a pump connected to said shaft and a crank arm operated by said stub shaft for operating the pump.

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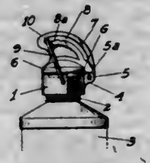
1,691,109. METHOD OF FORMING PRESSED-METAL HINGES. ROBERT F. CARPENTER, Cleveland Heights, Ohio, assignor to The Sany-Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1921. Serial No. 476,211. 5 Claims. (Cl. 29—11.)



3. The method of forming a hinge member from a sheet metal blank having a knuckle portion, end angular bracket portions and intermediate neck portions, consisting in pressing said blank to completely form the angular brackets and partially form the knuckle, and then completing the hinge member by pressing the knuckle to substantially cylindrical shape and thereby bringing the neck portions into substantially parallel relation.

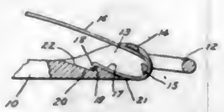
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1,691,110. CLOSURE. WAREHAM G. CLARK, Escalon, Calif. Filed Nov. 14, 1927. Serial No. 233,110. 6 Claims. (Cl. 221—60.)



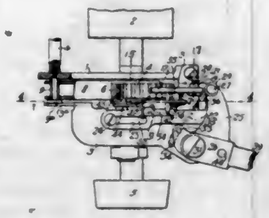
1. A closure comprising a base member, a cap for the base pivoted onto the same at one side thereof, a swinging latch member pivoted onto the base parallel to the cap pivot, and means on the cap permanently engaged by the latch to enable said cap to turn to closed or open positions with the swinging of the latch and normally held in a closed position by said latch.

1,691,111. SNAP HOOK. JOHN M. GLASER, Buffalo, N. Y., assignor to U. S. Hame Company, Buffalo, N. Y. Filed Sept. 9, 1926. Serial No. 134,471. 5 Claims. (Cl. 24—236.)



1. A snap hook comprising a body having a hooked nose at one end, and an attaching loop at the opposite end, and a bent spring secured in said body and having a tongue which bears resiliently against the nose, said body having spaced side walls at its inner end, a transverse bearing for said spring between said side walls and around which the bent portion of the spring passes and a transverse wall which connects said side walls and is located above the inner portion of the spring tongue and extends nearer to said nose than said transverse bearing, the space between said side walls being unobstructed inwardly beyond said spring bearing whereby the bent spring can be inserted and removed through said space, and said body having a continuous back wall provided on its front side between said side walls with a stop with which a hook on the end of the spring engages for retaining the spring in place in the body, said spring hook being held in engagement with said stop by the resilience of the spring and being adapted to be disengaged from said stop by flexing said spring.

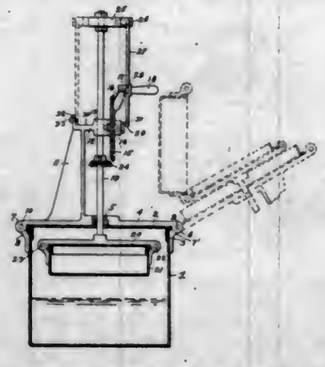
1,691,112. TYPEWRITING MACHINE. GEORGE G. GOING, Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company, a Corporation of New York. Filed Mar. 5, 1927. Serial No. 173,074. 17 Claims. (Cl. 197—114.)



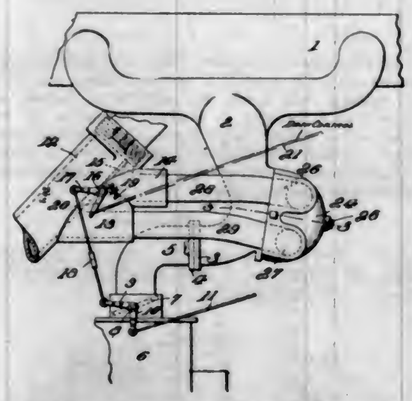
1. In a typewriting machine, the combination of a line spacing wheel, a line spacing pawl coacting with said wheel to effect an intermittent step-by-step forward feed of the platen, an adjustable line space regulating device on which said pawl normally rests and on which it has a sliding movement in its line spacing operation, and an overlying arm that holds the pawl against accidental displacement from said regulating device without interfering with the return movement of said pawl independently of the wheel after each line spacing movement is effected.

1,691,113. CLEANING AND EXTRACTING MACHINE. FRED L. HARDING, Glendale, Calif. Filed July 28, 1927. Serial No. 209,155. 3 Claims. (Cl. 68—18.)

1. A washing machine comprising a tank; a receptacle mounted in said tank; a shaft journaled on said tank secured to said receptacle; a pinion fixed to said shaft; a gear journaled on said tank adapted to mesh with said pinion; a link pivoted to said shaft and to said gear; and a handle on said gear, said handle normally reciprocating said shaft while said gear and pinion are disengaged from each other, said gear and pinion being adapted to be brought into engagement with each other to rotate said shaft while the reciprocatory function is rendered inoperative, and said link sustaining said pinion in mesh with said gear during the rotary operation of the aforementioned receptacle.



1,691,114. MANIFOLD FOR INTERNAL-COMBUSTION ENGINES. WALTER G. HEGINBOTTOM and JACOB RICHARD FRANCIS, Flint, Mich. Filed Apr. 23, 1919. Serial No. 292,084. 5 Claims. (Cl. 123—122.)



1. An internal combustion engine having a manifold provided with a horizontally disposed offset pocket, a carbureter having an outlet in line with the mouth of said pocket, manually operated means for controlling the application of heat to said pocket and means controlled by the movement of the throttle controlling the application of heat to said pocket.

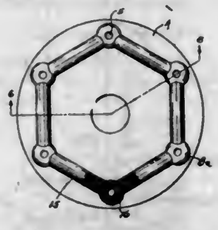
1,691,115. CURLING-IRON ATTACHMENT. JOSEPH H. JACOBS, Rochester, N. Y. Filed Oct. 3, 1927. Serial No. 223,604. 10 Claims. (Cl. 132—37.)



1. A hair curling device having a member of heat conducting material, means for heating said member, a protector comprising a member of poor heat conducting material extending along the heated member and means for detachably securing the protector in place.

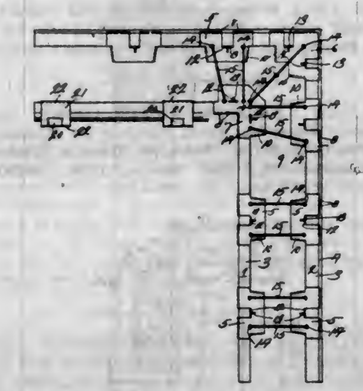


1,691,116. FLEXIBLE COUPLING. STEPHEN JENCICK, Cleveland, Ohio. Filed Apr. 29, 1920. Serial No. 377,623. 7 Claims. (Cl. 64—96.)



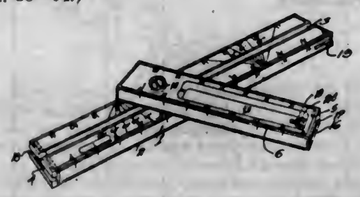
1. A coupling member, comprising a disc of flexible material provided on one face with circumferentially extending reinforcing ribs.

1,691,117. PLASTIC REENFORCED BUILDING CONSTRUCTION. PAUL KOSACK, Grand Island, Nebr. Filed July 23, 1927. Serial No. 207,861. 2 Claims. (Cl. 72—30.)



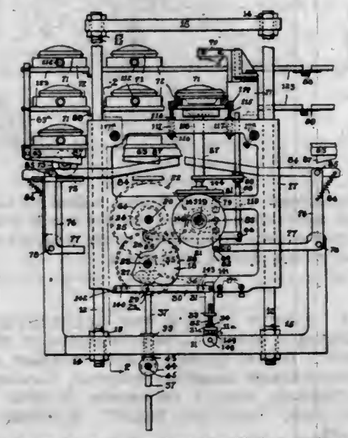
1. A wall construction comprising inner and outer wall sections having a chamber therebetween, plates extending between courses of blocks of the wall sections, said plates having angularly disposed flanges engaging the outer faces of the blocks, said plates extending inwardly into the chamber, downwardly extending flanges carried by the plates within the chamber and engaging the inner sides of the blocks at an angle thereto, tie rods connecting the plates of the inner and outer wall sections, said plates having recesses therein for the reception of vertically disposed members engaging the inner sides of the wall sections.

1,691,118. MITER SQUARE. WILLIAM LISSY, Spokane, Wash. Filed Dec. 21, 1925. Serial No. 76,586. 1 Claim. (Cl. 33—94.)



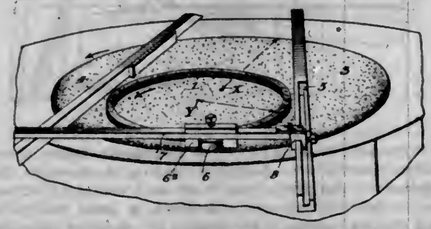
The combination with a stock having an undercut, transverse, end groove, of a blade and a bolt mounted therein and movable longitudinally thereof, a T-head on one end of the bolt for co-action with said end groove, said stock also being formed with an undercut side socket adapted to receive said T-head, and a clamp nut on the bolt.

1,691,119. MOLD LOADING AND TRANSFERRING MACHINE AND JIGGER COMBINED. WILLIAM J. MILLER, Swissvale, Pa. Filed Nov. 26, 1926. Serial No. 150,809. 20 Claims. (Cl. 25—24.)



1. In a machine of the class specified, a main stationary frame, jiggering mechanism movably supported on said frame, means for supporting molds in multiple levels, means for periodically moving the jiggering mechanism adjacent each level, and means for successively moving the molds of each level into operative adjacency to said jiggering mechanism.

1,691,120. METHOD OF GRINDING PISTON RINGS. ALLEN W. MORTON, Baltimore, Md., assignor to The American Hammered Piston Ring Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 30, 1927. Serial No. 243,671. 3 Claims. (Cl. 51—278.)

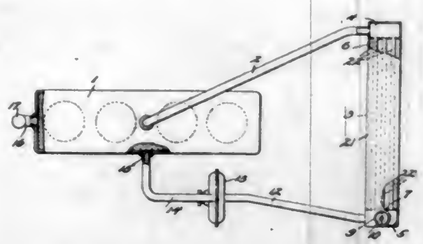


1. That method of producing piston rings from individual castings having a series of spaced projections extending outwardly from one face thereof which consists in bringing the ends of said projections into a common plane; placing the casting upon a magnetic chuck with the ends of the projections resting thereon; removing the opposite face of the casting while thus supported to produce, a plane surface thereon, placing such treated face upon a magnetic chuck; and thereafter removing the projections and the underlying body to such extent as to produce a ring of the desired thickness.

1,691,121. MEANS FOR OPERATING COOLING SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. WELLINGTON W. MUIR, Lockport, N. Y., assignor to Harrison Radiator Corporation, Lockport, N. Y. Filed Aug. 20, 1925. Serial No. 51,382. 5 Claims. (Cl. 123—174.)

1. In a cooling system for internal combustion engines, the combination of a jacket; a cross flow radiator provid-

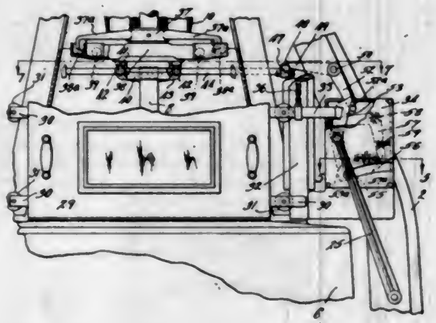
ed with cooling passages extending from side to side thereof; a connection leading from said jacket to said radiator; a connection including a fluid forcing means leading from said radiator to said jacket; a by-pass con-



nection associated with said forcing means joining said jacket and means connected with the cold side of said radiator adapted to permit the escape of air from the system when said side is flooded with liquid.

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1,691,122. SAFETY DEVICE FOR OVERDRIVEN EXTRACTORS. CHARLES M. OTIS, Rochester, N. Y., and FORREST J. COUCH, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 9, 1926. Serial No. 140,573. 6 Claims. (Cl. 192—136.)

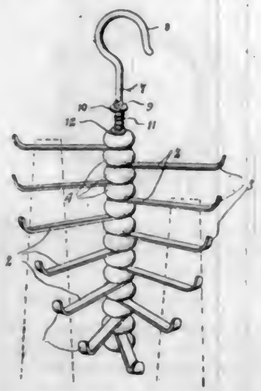


1. In an article of the class described a frame, a container mounted for rotation therein, a movable door adapted to guard the mouth of said container, driving means for rotating said container, a lever controlling said driving means, latch means for securing said door in guarding position, a device responsive to rotation of said container, a connection between said latch means and said device whereby the weight of a part of the device tends at all times to maintain said latch means in door securing position and positively maintains said latch member in said position during rotation of said container, and said lever being provided with means to release the latch means upon movement of said lever from driving position beyond its driving release position.

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1,691,123. NECKTIE RACK. CHARLES H. PAJEAU, Evanston, Ill., assignor to The Toy Tinkers, Inc., Evanston, Ill. Filed Feb. 7, 1928. Serial No. 252,572. 1 Claim. (Cl. 211—165.)

A necktie rack comprising a standard having means at the upper thereof for suspending the same, arms pivoted upon the standard to freely swing in a horizontal plane, spacer buttons upon the standard between the arms, the standard being non-circular in cross section and the spacers having standard-receiving openings conforming to the standard to prevent rotation of the spacers about the



standard, and a coiled spring around said standard between said means and the uppermost spacer for frictionally binding said arms and spacers against each other.

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1,691,124. ATTACHMENT FOR LOOMS. ALBERT PALMER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1928. Serial No. 244,515. 7 Claims. (Cl. 234—1.)



7. A device of the class described for a loom having a relatively fixed breast beam and a lay moving toward and from the breast beam and a shuttle to move along the lay, a recording member supported by the breast beam, and means supported by the lay and deriving movement from the shuttle when the latter is in flight to make a record upon said means to indicate the time in the cycle of the loom when the shuttle engages the device.

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1,691,125. TRANSFORMER. WLADIMIR J. POLYDOROFF, Chicago, Ill., assignor to Johnson-Williamson Laboratories, Inc., Chicago, Ill., a Corporation of Illinois. Filed Apr. 11, 1925. Serial No. 22,291. 15 Claims. (Cl. 175—359.)



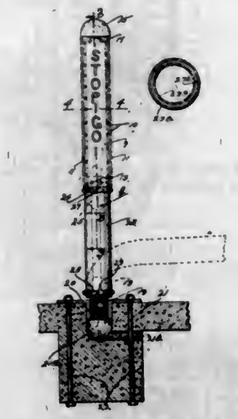
1. An electrical device including a radio frequency transformer having a plurality of separate windings, said windings being in close magnetic relation, a magnetic field of a primary winding being substantially enclosed



in other windings, and said windings being wound in such a way that every half turn forms a complete circle and is continued in the same plane and same form, but in a direction opposite to another half winding.

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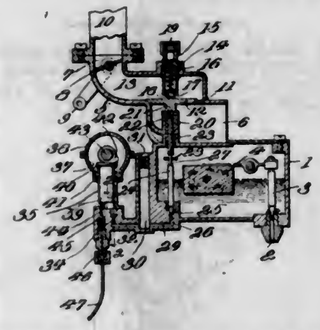
1,691,126. TRAFFIC SIGNAL. JOHN RANK and HENRY W. RANK, Minneapolis, Minn. Filed Sept. 3, 1925. Serial No. 54,240. 9 Claims. (Cl. 40—145.)




1. A traffic signal in the form of a post and comprising an anchoring base, a hollow rigid upper section having sign-bearing elements, and a resilient integral tubular section deformable in cross-section and connected to said anchoring base and said rigid upper section and adapting the latter to be readily turned from a normal upright position into an approximately horizontal position when the tubular section is deformed.

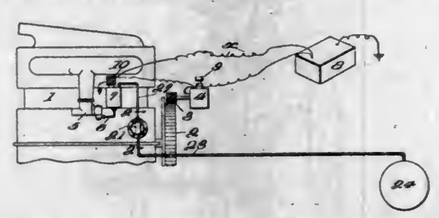
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1,691,127. CHARGE FORMING AND INJECTING DEVICE FOR INTERNAL COMBUSTION ENGINES. ALBERT GREEN REDMOND, Indianapolis, Ind., assignor to Marvel Carburetor Company, Flint, Mich., a Corporation of Indiana. Filed Mar. 19, 1920. Serial No. 367,246. 17 Claims. (Cl. 123—32.)



1. A charge forming and injecting device for internal combustion engines comprising a fuel chamber having an outlet, an air passage communicating with the internal combustion engine, a suction controlled valve arranged in said air passage, a valve operated by said suction controlled valve for controlling the outlet of fuel from said fuel chamber and a plurality of pump cylinders communicating with said outlet passage having outlets corresponding to the cylinders of the internal combustion engine for injecting fuel into the cylinders of said engine.

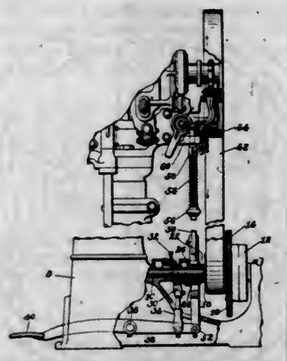
1,691,128. FUEL-FEEDING SYSTEM FOR MOTOR VEHICLES. ALBERT G. REDMOND, Flint, Mich., assignor to Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Filed Apr. 30, 1925. Serial No. 27,113. 9 Claims. (Cl. 123—187.5.)



1. In a fuel feeding system for motor vehicles, the combination with an internal combustion engine having an electric starter, an electric circuit for said starter, a source of current, a receiving chamber, means for forcing fuel from a low level tank to said receiving chamber, an electric magnet valve for venting said receiving chamber, said valve being arranged in said electric circuit and adapted to be opened when the starter is in operation.

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1,691,129. SAFETY DEVICE. JOHN B. ROULO, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 24, 1927. Serial No. 201,155. 5 Claims. (Cl. 192—17.)



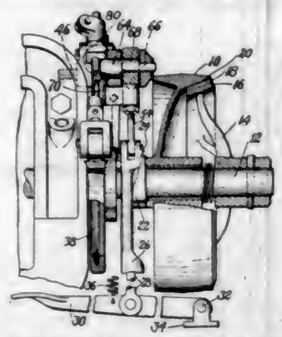
2. In a machine of the class described, the combination of a main shaft, a counter shaft, a clutch on the counter shaft for controlling the transmission of power to the main shaft, a power operated brake for arresting movement of the main shaft when the clutch is released, a treadle for operating the clutch, a rod operated by the treadle for releasing the brake, a projection on said rod, and an adjustable stop comprising a sleeve having slots at right angles to each other adapted to engage the projection on the rod, adjustment of the sleeve to cause the projection to engage one of the slots permitting operation of the machine as usual, and adjustment of the sleeve to cause the projection to engage the other slot permitting the brake to be released and preventing operation of the treadle to set the clutch.

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1,691,130. SAFETY DEVICE. JOHN B. ROULO, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 5, 1927. Serial No. 231,260. 8 Claims. (Cl. 192—17.)

3. A safety device for a brake and clutch mechanism for preventing operation of the clutch after the brake has been released, comprising a treadle, two members oper-

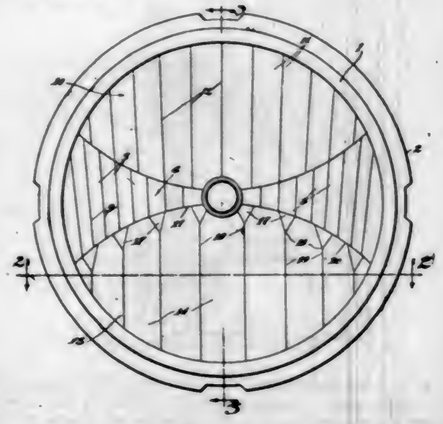
atively connected with the treadle to move relatively toward each other upon movement of the treadle and so constructed and arranged that when the members come in contact with each other further movement of the



treadle and engagement of the clutch are prevented, and an eccentric mechanism movable to prevent said members from coming in contact during normal operation of the machine.

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1,691,131. CONFIGURATED REFLECTOR. CHARLES D. RYDER, Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 28, 1926. Serial No. 118,874. 3 Claims. (Cl. 240—41.)

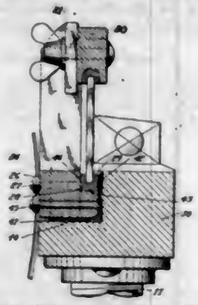


1. A concave configurated reflector for automobile headlights, comprising three horizontal zones, the axis of the middle one of these zones being horizontally disposed, the axis of a second zone being disposed downwardly at an angle to the axis of the middle zone to cast light belonw that cast by the middle zone, said second zone provided with curvature variations constituting vertically extending panels adapted to spread light horizontally to a greater extent than vertically, the axis of the third zone being disposed downwardly to a greater extent than the axis of the second zone, said third zone also provided with panels adapted to spread light to a greater extent horizontally than the panels of the second zone, said axes intersecting at their foci to provide a common focal point.

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1,691,132. LAY FOR LOOMS. EPPA H. RYON, Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 12, 1927. Serial No. 239,327. 3 Claims. (Cl. 139—188.)

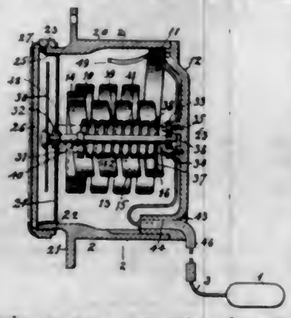
1. In a lay for a loom having a reed, a backstay movable relatively to the lay and having a groove therein, an angle iron secured to the backstay and having a vertical portion along the front edge of the backstay, the vertical



portion of said angle iron cooperating with the groove in the backstay to define a slot which receives the lower end of the reed.

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1,691,133. TEMPERATURE-INDICATING DEVICE. HERMAN SCHLAICH, Brooklyn, N. Y. Filed Feb. 23, 1918. Serial No. 218,801. 26 Claims. (Cl. 73—118.)

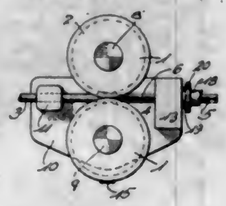


1. A tubular pressure responsive element for gages wound into compound helical form, some of the coils of the tube being wound in an opposite axial direction to other of the coils but all of the coils being wound in the same circumferential direction.

20. A distance type thermometer having a bulb, an indicating gage, and corrugated capillary transmission tubing connecting said bulb and gage.

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1,691,134. SMALL-BORE TUBING, AND METHOD AND APPARATUS FOR THE MAKING OF SAME. HERMAN SCHLAICH, Brooklyn, N. Y. Filed Apr. 10, 1918. Serial No. 227,754. 16 Claims. (Cl. 153—7.)





1. Corrugated capillary tubing.

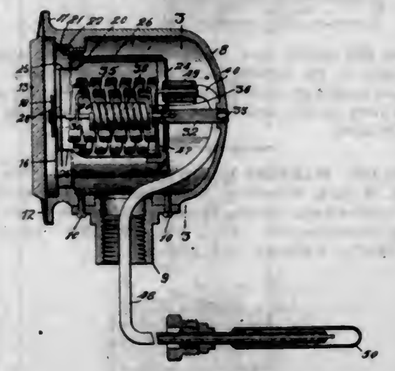
5. The method of reducing the volume of capillary tubing which consists in depressing a longitudinal groove therein.

11. The combination of a pair of rolls having grooves for reshaping a piece of tubing, a guide at one side of the rolls, a support on the other side of the rolls, and means comprising a slotted nut and a member having a conical bearing surface for said nut for securing to the support the end of a larger piece of tubing to receive the first tubing after the rolls deliver the same.



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1,691,135. INSTRUMENT. HERMAN SCHLAICH, Long Island City, N. Y. Filed Nov. 10, 1921. Serial No. 514,196. 5 Claims. (Cl. 73—118.)



1. In an instrument, a helically coiled Bourdon tube, an arbor to which one end of said tube is operatively connected, an indicator secured on the opposite end of said arbor, bearings in which the ends of said arbor are journaled, means for rotatably supporting one of said bearings, a support to which the other end of said tube is connected, and a connection between said support and said rotatably supported bearing for enabling the support, the tube, the arbor and the indicator to be adjusted as a unit by rotation of the bearing, the bearing being directly engageable for effecting such adjustment.

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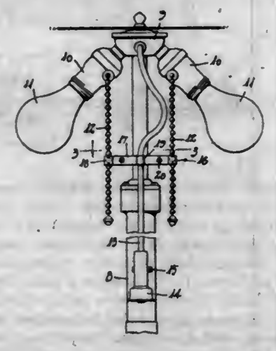
1,691,136. INDOOR-OUTDOOR THERMOMETER. HERMAN SCHLAICH, Long Island City, N. Y. Filed July 6, 1922. Serial No. 573,089. 17 Claims. (Cl. 73—52.)



1. A thermometer comprising a frame, temperature indicating means carried by said frame and visible from the front thereof, a temperature responsive element, a flexible connection connecting said element to operate said indicating means, and means carried by said frame for removably holding said element and the major portion of said flexible connection.

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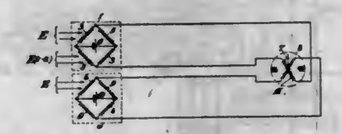
1,691,137. COMBINATION LAMP AND SMOKER'S STAND. OTTO A. SCHUCHERT, Elgin, Ill. Filed Oct. 11, 1926. Serial No. 140,968. 4 Claims. (Cl. 240—81.)



1. A device of the character described comprising a lamp fixture having a lamp socket with a pull chain, an electric cord connected to said fixture and connected to said pull chain for operating said chain, and an electric cigar and cigarette lighter connected to said cord and serving as a handle for pulling the cord and chain.

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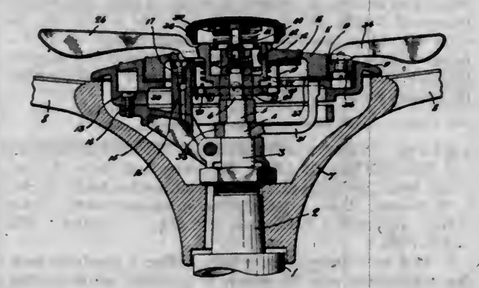
1,691,138. DETERMINING THE CONTENTS OF A GAS. HANS SCHMICK, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, Germany, a German Corporation. Filed June 3, 1926, Serial No. 113,434, and in Germany June 4, 1925. 10 Claims. (Cl. 23—254.)



1. In a method for determining a gas by radiation measurement, the use of a selective radiator the emission bands of which overlap as little as possible the absorption bands of the test gas.

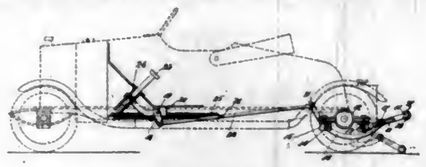
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1,691,139. STEERING-WHEEL-CONTROL ASSEMBLY. ERNEST W. SEAHOLM, Detroit, and HARRY M. DENYES, Saginaw, Mich., assignors to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 10, 1927. Serial No. 167,247. 19 Claims. (Cl. 74—39.)



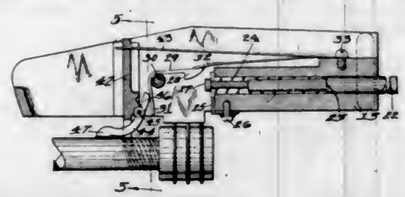
1. A steering wheel control assembly including a steering wheel, and a plurality of relatively movable control rings located on the hub of the wheel, and having their peripheral edges disposed one beyond another, in concentric succession.

1,691,140. ANTISKID DEVICE FOR MOTOR VEHICLES. ROBERT THORNER, Asheville, N. C. Filed Apr. 6, 1925. Serial No. 20,943. 2 Claims. (Cl. 188—5.)



1. An anti-skid device for motor vehicles comprising in combination a rearwardly-extending frame having two arms substantially parallel to the longitudinal axis of the vehicle and a transverse drag connecting the rearward ends of said arms, means pivotally connecting the forward ends of said arms to the vehicle, a pair of curvilinear levers each pivotally connected at a point intermediate its ends to said vehicle, a pin-and-slot connection between the rearward ends of said curvilinear levers to said arms, respectively, a transverse bar connecting the forward ends of said curvilinear levers, a lever pivotally connected to said vehicle near the forward end thereof, a rod connecting the lower end of said lever to said transverse bar, a foot pedal and a pin-and-slot connection between said pedal and the upper end of said lever.

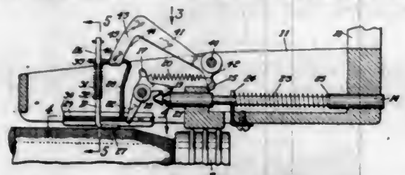
1,691,141. WEFT DETECTOR IN REGULARLY-MOVING TRANSFERRER. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 3, 1926. Serial No. 120,490. 15 Claims. (Cl. 139—271.)



1. In a weft detector for a loom having a surface to be detected, a detector to cooperate with the surface, means to cause relative motion between the detector and the surface to lessen the distance between said detector and surface, a support for the detector, means exerting a force on the detector to cause the latter to maintain the same relative position with respect to the support during the time that the distance between the surface and detector is being reduced, means to cause an abrupt change in the force acting on the detector as the distance between the detector and surface is reduced, a weighted mass operatively connected to the detector and tending to act by the inertia thereof at the time of said abrupt change to caust a relative change in the relation of the detector and support therefor and tending to give the detector an indicating movement while in contact with the surface.

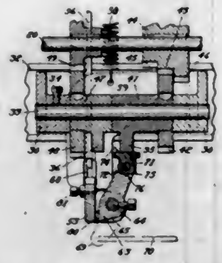
1,691,142. INERTIA-ACTUATED WEFT DETECTOR ON A TRANSFERRER ARM. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1927. Serial No. 232,424. 7 Claims. (Cl. 139—271.)

1. In a weft detector for a loom having a regularly moving transferrer arm on which is mounted an indicating plunger, a movable latch normally holding the plunger in nonindicating position, a carrier slidable on the transferrer arm in a direction substantially parallel to the surface being detected, a detector mounted on the carrier, a weighted member pivoted to the transferrer arm and free to move downwardly relatively to the transferrer after the latter has reached the bottom of its stroke due to the momentum of said weighted arm, and means defining a connection between the weighted arm and the carrier whereby the downward motion of the weighted arm is caused to



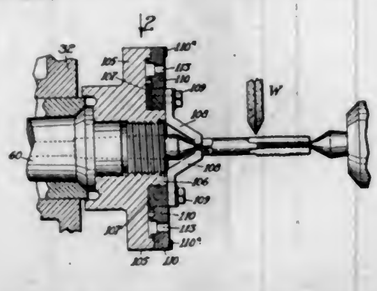
move the carrier in a substantially horizontal direction parallel to the surface being detected, said latch to be moved to plunger releasing position when the carrier moves relatively to the transferrer arm on an indicating beat of the loom.

1,691,143. HARNESS MOTION FOR LOOMS. WILLIAM M. WATTIE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 25, 1927. Serial No. 235,575. 5 Claims. (Cl. 139—80.)



1. In a harness motion for a loom having a pair of oppositely moving harness frames to be moved by a treadle lever, an actuator cam having a motion the cycle of which is completed in a given number of picks of the loom, a second actuator cam for a motion the cycle of which is completed in a different number of picks of the loom, and a device moving with but movably mounted with respect to the treadle lever to have direct engagement with either cam whereby either cam causes movement of the treadle lever.

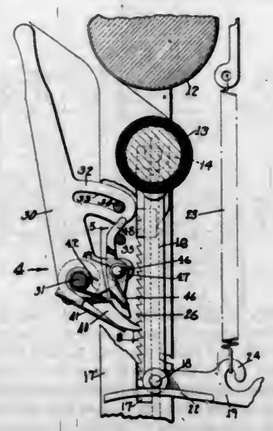
1,691,144. WORK-DRIVING DEVICE. JOHN BATH, Worcester, Mass. Original application filed Dec. 27, 1921, Serial No. 524,817. Divided and this application filed Dec. 14, 1925. Serial No. 75,201. 5 Claims. (Cl. 51—237.)



1. In a thread grinding machine, a head stock, a work supporting spindle rotatable therein, a work driving member mounted thereon, and means on said head stock effective to release said member from said spindle and to hold said released member in fixed angular position,



1,691,145. CLOTH-ROLL SUPPORT. CARL P. BERGSTROM and VICTOR A. FOISY, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 21, 1927. Serial No. 241,667. 7 Claims. (Cl. 139—308.)



1. In a loom, cloth roll supporting mechanism comprising a pair of vertically slidable supporting bars, said bars being simultaneously manually depressible, means to hold said bars depressed, and means to accomplish a yielding upward step by step movement of said bars to operative raised position.

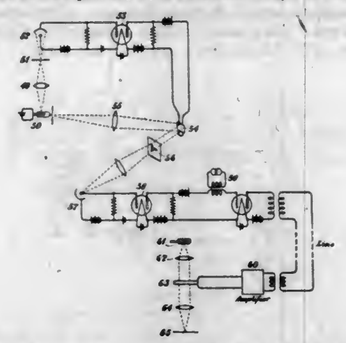
1,691,146. COTTON-PICKING MACHINE. GUY E. BOGGS, Kaufman, Tex. Filed Jan. 15, 1923. Serial No. 612,687. 1 Claim. (Cl. 56—32.)



Cotton picking apparatus including a suction tube, a nozzle carried thereby having an opening in the wall thereof, a flap valve hingedly connected to the nozzle and movable to position to close the opening, said valve being normally extended into the nozzle to partly close the passage through the nozzle and a finger piece extending from the valve, and outwardly from the nozzle for actuation by a finger of an operator to shift the valve away from normal position and to close the opening.

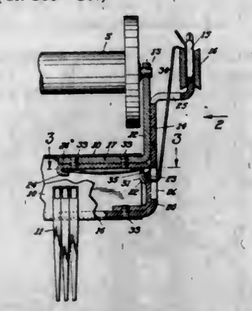
1,691,147. ELECTRICAL PICTURE-TRANSMITTING SYSTEM. ALVA B. CLARK, Brooklyn, N. Y.; HARRY NYQUIST, Millburn, N. J.; and DANFORTH K. GANNETT, Jackson Heights, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed June 6, 1925. Serial No. 35,328. 20 Claims. (Cl. 178—7.)

1. In the transmission of pictures by electric currents, the method which consists in sending currents varied in a non-linear relation to the light values of the successive elements of the picture to be transmitted, and at the re-



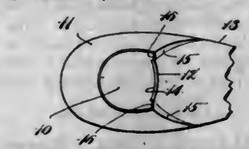
ceiving end exposing corresponding elements of a sensitive surface to light varied in inverse non-linear relation to the received current.

1,691,148. TUBE-FRAME BRACKET. EVERETT E. CLARK, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 26, 1927. Serial No. 178,785. 8 Claims. (Cl. 139—10.)



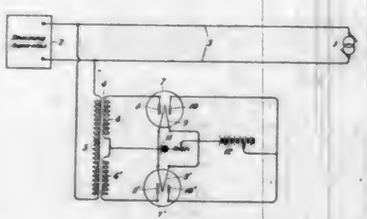
1. In a loom, a rectangular yarn tube frame, and a tube frame bracket comprising an L-shaped spool-supporting member, an L-shaped chain-engaging member having upper and lower slots therein, said members being permanently secured together and having their parallel offset lower end portions extending within said tube frame, and a chain-engaging spring hook of general L-shaped formation mounted in said bracket and having its offset lower end extending freely a substantial distance within said tube frame and secured at its inner end in substantially fixed relation to said tube frame bracket, said spring being free to flex throughout substantially its entire length.

1,691,149. HEEL. ANTHONY COCOZELLA, Lynn, Mass., assignor, by direct and mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 28, 1925. Serial No. 71,989. 16 Claims. (Cl. 36—34.)



6. As an article of manufacture, a heel block having ribs formed one at each lateral margin of its breast and projecting beyond its breast surface, said ribs extending from the top to the bottom of the breast to protect the lateral edges of a breast covering to be fitted between them.

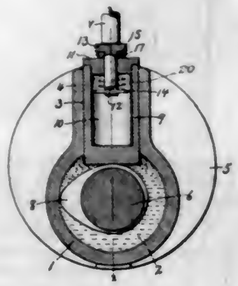
1,691,150. ELECTRICAL POWER-LIMITING DEVICE. GEORGE CRISSON, East Orange, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 2, 1925. Serial No. 27,563. 4 Claims. (Cl. 171—119.)



1. A device for limiting the electrical power delivered over a circuit including a source of power and a transmission line, said device consisting of a duplex three-electrode vacuum tube arrangement connected effectively in shunt with the transmission line, and means for controlling the potential applied to the grid electrodes of the tubes, the plate electrodes of the tubes being electrically connected one to each side of the transmission line, and the filament electrodes of the tubes being connected to a neutral point in the circuit.

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1,691,151. INTERNAL-COMBUSTION ENGINE. WILLIAM M. GOODWIN, Central Square, N. Y. Filed Jan. 11, 1927. Serial No. 160,406. 3 Claims. (Cl. 123—90.)



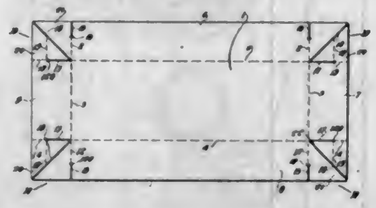
2. The combination with an internal combustion-engine frame having a circular opening, a tubular casing supported in said opening and provided with a radial guide opening, a valve-operating plunger movable in said guide opening, and a cam shaft journaled within the tubular casing for operating said plunger, the opening in the frame being of greater diameter than the external diameter of the casing to permit said casing with the cam-shaft and plunger therein to be displaced endwise without changing the normal relation between the casing, cam-shaft and plunger.

3. An internal combustion engine as in claim 2 in which the circular opening in the frame is eccentric to the axis of the tubular casing and its longer radius is disposed at the same side of said axis as the guide opening for the plunger.

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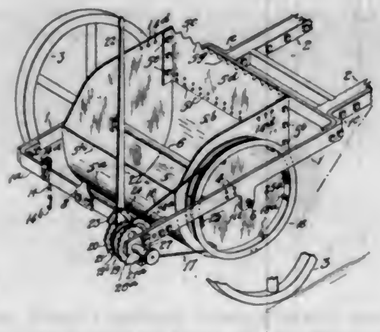
1,691,152. COLLAPSIBLE BOX. EDWARD EVERETT HALE, Buffalo, N. Y. Filed Aug. 15, 1927. Serial No. 213,127. 1 Claim. (Cl. 229—35.)

In a corner locking structure for collapsible boxes, the combination of the bottom and two adjacent sidewalls of integral triangular corner locking members formed upon the ends of the sides and bent at right angles thereto and having slots extending along the lines about which they are bent, one of said slots extending upwardly from the bottom of the corner along the bending line of one triangular corner locking member, the other slot extending downwardly from the top of the corner along the bending line of the other triangular corner locking member, and a bending line extending across the triangular member having the upwardly extending slot from the top of such slot to one of the free edges of such member, a tongue member formed by the slot and said free edge in said locking member and adapted to be bent back upon its corner locking member along the bending line so that it enters the slot in the other corner locking member when the corner is being formed, a means whereby the returning of the tongue to its original unbent position constitutes a corner retaining lock.



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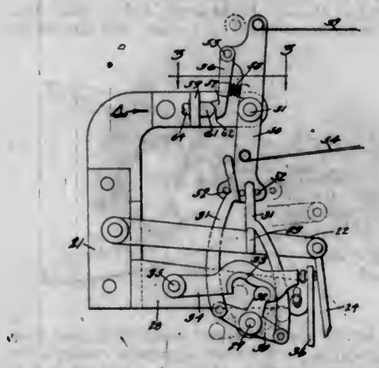
1,691,153. EARTH SCOOP. PERCY HERBERT HISCOCK, Pyalong, Victoria, Australia. Filed Aug. 26, 1926, Serial No. 131,759, and in Australia Nov. 21, 1925. 3 Claims. (Cl. 37—140.)



1. A rotatable scoop, having a wheeled frame, and at one side of the scoop rear a series of ratchet wheels fixed on a rotatable winding drum, a plurality of ropes each fastened at one end to said drum, and extending therefrom to a pulley fixed at the side of the scoop, the other ends of the ropes being fastened to the pulley, a pair of pawls bearing on different ratchet wheels of the said series either pawl of said pair being raisable to allow of rotation of the series of ratchet wheels in a distinctive direction, the unraised pawl preventing reverse rotation, and a lever carrying a pair of pawls each locatable to bear on a different ratchet wheel so that each of these pawls is adapted to rotate the drum in a distinctive direction according to the direction of movement of the lever, rotation of the drum moving the ropes, and thereby rotating the pulley and scoop, adjusting the latter into either scooping, load carrying non-scooping, or discharging, position, at will.



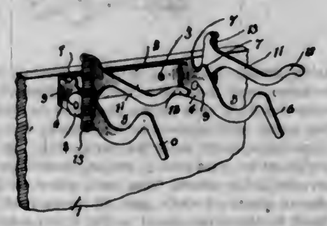
1,691,154. JACQUARD INDICATOR FOR LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 4, 1926. Serial No. 133,702. 10 Claims. (Cl. 139—180.)



1. In a jacquard indicator for the box motion of a loom, a member connected to and movable by the jacquard mechanism, a regularly moving actuator, a pair of elements operatively connected to the box motion and movable with the member relatively to the path of the actuator, and a pair of cooperating devices acting to complete a motion of the member initiated by the jacquard mechanism, one of said devices being connected to and movable with the member, the other device being capable of assuming any one of a number of fixed positions relatively to the member when the latter is at rest, the variation of the position of said second device rendering possible a variation in the time at which said devices will begin to complete a motion of the member which is initiated by the jacquard mechanism.

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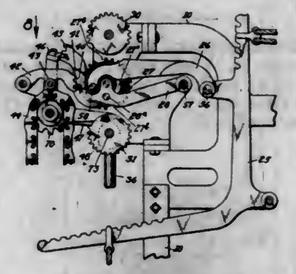
1,691,155. HOLDER. EDWARD I. HOWELL, Phillipsburg, N. J. Filed Mar. 22, 1927. Serial No. 177,376. 1 Claim. (Cl. 248—20.)



A holder comprising a pair of horizontally spaced supporting arms having article-receiving recesses formed in their upper edges and having their forward ends inclined downwardly to form guides, means for securing said arms to a relatively fixed support, spaced stop lugs on the upper edges of the arms in rear of the recesses therein, clamping arms pivotally attached to the respective supporting arms and extending upwardly and then forwardly above the supporting arms and over an article in the recesses therein, a lateral lug on each clamping arm movable between the stop lugs on the respectively adjacent supporting arm whereby to limit the movement of the clamping arms in either direction, and retractile springs attached to the supporting arms and the clamping arms pivoted respectively thereto in advance of the pivotal point and in rear of the recesses in the supporting arms.



1,691,156. HEAD MOTION FOR LOOMS. CHESTER L. HUSSEY, Oyster Bay, N. Y., and WILLIAM H. STEBBINS, Norwich, Conn., assignors to J. B. Martin Company, Norwich, Conn., a Corporation of Delaware. Filed Sept. 10, 1927. Serial No. 218,759. 19 Claims. (Cl. 139—77.)



5. A reversible head motion for looms comprising vibrator gears, and upper and lower driving cylinder gears, the axes of all of said gears being located substantially in a single plane, and means to drive said cylinder gears in forward and rearward directions.

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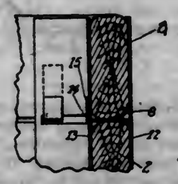
1,691,157. WAGON SEAT. BARRON JAMES JOSEPH KERR, Wimborne, Alberta, Canada. Filed Oct. 28, 1926. Serial No. 144,844. 1 Claim. (Cl. 155—9.)



A wagon seat comprising a body of rigid angle bars, longitudinally extending reinforcing bars connecting the angle bars, a back frame for the body, and side arms integral with said frame and connected to the angle bars, a plurality of longitudinally extending spaced wires spring-connected at each end to the body portion and the back frame, a plurality of spaced cross wires connected to the aforementioned wires, a central reinforcing plate for the body portion and the back engaging the longitudinally extending wires, coil spring supports between said plate and the reinforcing bars for the angle bars, suspending clamping members for the seat, and flexible members connecting the clamping members with the angle bars.

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1,691,158. BOX. HAROLD S. LION, Cincinnati, Ohio, assignor, by mesne assignments, to United Milk Crate Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 9, 1926. Serial No. 114,821. 2 Claims. (Cl. 217—69.)

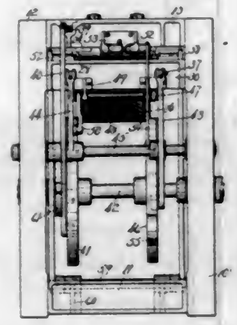


1. A box having side and end walls composed of a frame of wooden strips arranged in tiers, with a metallic angle plate for the outside of each corner of the box having ears

punched therefrom extending inwardly, horizontally, flatwise, and at right angles to the plate, and a locking plate for the inside of each corner provided with slots to receive said ears of the outside plate for clinching, to secure the corner plates in position.

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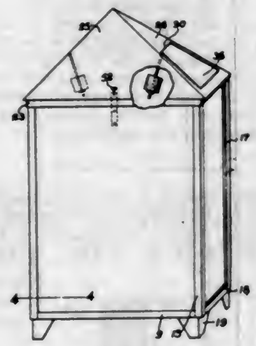
1,691,159. WIRE-BENDING MACHINE. GEORGE FRANKLYN MATTESON, Rocky Hill, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed May 2, 1925. Serial No. 27,576. 20 Claims. (Cl. 153—45.)



1. A bending machine including a bending member rotatably mounted, a pair of formers projecting from said bending member and spaced for the reception of articles to be bent between them, means for operating said bending member to cause one of said formers to bend said articles around the other of said formers, a placer to place opposite ends of articles simultaneously between said formers, and means for supplying articles to said placer.

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1,691,160. SELF-CLOSING RECEPTACLE. WILLIAM ROGER MEUTTMAN, Cincinnati, Ohio. Filed Sept. 17, 1926. Serial No. 136,150. 9 Claims. (Cl. 220—32.)

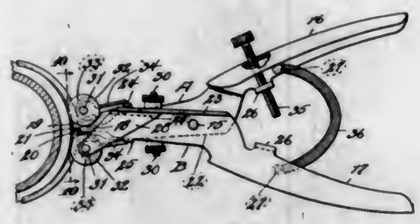


1. In a waste receptacle the combination of a housing having an apertured top portion, a swinging door movable through said aperture in both directions, a rod associated with the door and disposed interiorly of the housing and an adjustable weight on the rod for counter-balancing the swinging door and retaining said door normally in a plane with the edges of the aperture in the top.

3. In a device of the class described the combination of a plurality of W-shaped corner strips, side walls flanged at the edges and secured to the corner strips for providing ways wherein display panels may be mounted, and a cover having a flange for closing the ways in the sides.

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1,691,161. PISTON-RING MOUNTING AND REMOVING TOOL. FRANK MILLER, Los Angeles, Calif. Filed Jan. 24, 1927. Serial No. 163,096. 7 Claims. (Cl. 29—86.4.)



1. A tool of the class described comprising ring holding means consisting of relatively adjustable elements for adaptation to rings of different thickness, and adapted to be locked in the adjusted position, and means for spreading the ring ends and securing the spread ends in the ring holding means.

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1,691,162. VENTILATING APPARATUS. MARK H. MILLER, Indianapolis, Ind. Filed Aug. 26, 1926. Serial No. 131,608. 1 Claim. (Cl. 98—88.)



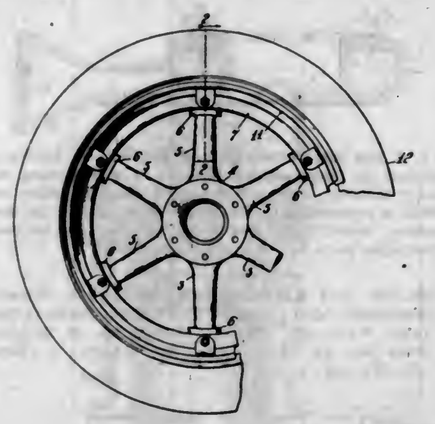
Ventilating means including a frame having an opening in the lower part thereof, a vertical series of angular screens secured within said frame arranged in substantially A-shaped pairs, said screens being formed of a translucent but non-transparent material for permitting the passage of light while preventing vision therethrough, the pairs of screens being spaced from each other vertically so that the lower edges of each pair of screens will extend down at least to the same plane as the upper edges of the pair of screens below so as to permit the free passage of air while preventing the passage of the elements, a vertical screen insertable in and removably mounted through the opening in said frame between each series of angular screens, and a latch secured to the lower portion of said frame adjacent the opening therein for locking said vertical screen therein.

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1,691,163. METHOD OF MAKING METAL WHEELS. EDMUND C. MOGFORD, Buchanan, and FREDERICK W. BURGER, Niles, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a Corporation of Michigan. Filed May 29, 1925. Serial No. 33,657. 14 Claims. (Cl. 29—174.)

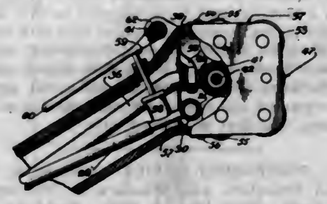
1. The method of constructing a circular wheel which comprises, forming a rigid spider, forming a circular felloe of outwardly facing channel section and of relatively deep flanges and of an internal diameter smaller than the outer diameter of the spider, pressing the spider into the felloe to create a tension in the felloe not sufficient to substantially distort the form of the felloe, but great enough to hold the spider under compression for all loads within the capacity of the wheel.





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1,691,164. WINDOW-WASHING DEVICE. TRAVIS B. MONK, Chicago, Ill. Filed May 13, 1927. Serial No. 190,983. 6 Claims. (Cl. 15—103.)

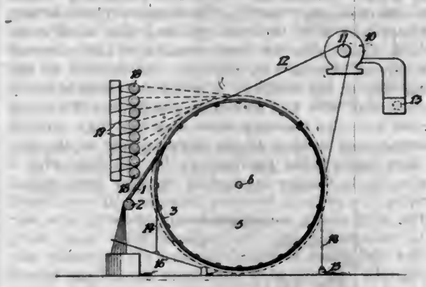


1. A window washing device comprising a washer mounted in a nozzle connected to a fluid container; means for spraying washing fluid on said washer; means for rotating said washer; rollers associated with said washer for wiping said washing fluid from the surface being washed and returning said fluid to said nozzle; means for creating a vacuum in said nozzle for aiding the return of said fluid to said nozzle; other rollers associated with the first said rollers for removing washing fluid from the first said rollers and plate members frictionally engaging said other rollers, and fluid straining and absorbing means said fluid straining and absorbing means being incorporated within said fluid container.

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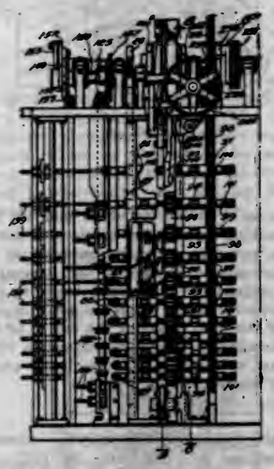
1,691,165. FILAMENT-DRYING APPARATUS. SAMUEL A. NEIDICH, Edgewater Park, N. J. Filed June 5, 1926. Serial No. 113,869. 3 Claims. (Cl. 242—1.)

1. In filament drying apparatus; the combination with an open reel; of means arranged to rotate said reel selectively in opposite directions; means arranged to singly direct and assemble a plurality of wet filaments in a single skein or band upon said reel, at one end thereof, and distribute the same in helical convolutions by reciprocation parallel with the axis of said reel, while rotating said reel in one direction; means arranged to rotate said reel at increased speed when charged, to dry said filaments; and means arranged to withdraw the dried filaments, in reverse direction, singly and separately but simultaneously from said reel, and contemporaneously wind each of said filaments singly and separately upon respective bobbins while rotating said reel in the opposite direction.



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1,691,166. WIRE-FENCE MACHINE. CARL A. PORATH, Kokomo, Ind., assignor to Kokomo Steel and Wire Company, Kokomo, Ind., a Corporation of Indiana. Filed Feb. 14, 1924. Serial No. 692,646. 26 Claims. (Cl. 140—13.)

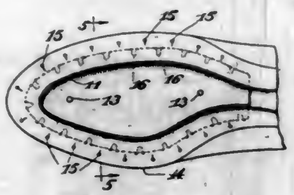


1. In a wire fence machine for the manufacture of wire fencing having horizontal strand wires and vertical cross stay wires, the combination of means for supporting the horizontal strand wires in parallel position within a vertical plane, means for feeding a plurality of stay wires equal in number to the spaces between the strand wires and in a direction initially parallel to the strand wires, each stay wire being initially located below the position of the strand wire space which it is to occupy, means for directing each stay wire as fed into a vertical position across the strand wire space which it is to occupy, said directing means including a slotted guideway having a side opening facing in the direction of fence delivery, whereby the stay wire sections are placed across the spaces between the strand wires and with the adjacent stay wires overlapping each other at the positions of the strand wires, a rotatable primary twister in line with each strand wire and having oppositely disposed teeth adapted to engage the stay wire ends, a stationary knife blade beneath each

strand wire and adjacent to the feeding position of the corresponding stay wire, a movable cutting blade corresponding to each stationary blade, means for moving the movable blades towards the respective stationary blades and for simultaneously moving the primary twisters into firm engagement with the corresponding stay wire ends, a rotatable fixed coiler for each strand wire and provided with a central strand wire passage, and located at the receiving side of the machine, a rotatable movable coiler for each strand wire and having a longitudinally extending strand wire slot reaching more than half way through its diameter and located at the delivery side of the machine, each coiler being provided on its end face with a tooth adapted to engage the end of the stay wire, means for turning the primary twisters substantially one-fourth turn after they are in engagement with the stay wire sections to thereby overlap the adjacent stay wire ends, means for thereafter rotating the fixed and movable coilers to thereby coil the stay wire ends around the strand wires, means for thereafter shifting the movable coilers sidewise to remove them from the position of the strand and stay wires, and means for thereafter moving the completed fencing a distance equal to the spacing between consecutive stay wires substantially as described.

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1,691,167. METHOD OF MAKING SHOES. ABRAHAM L. POSTMAN, Brooklyn, N. Y. Filed Nov. 19, 1925. Serial No. 69,977. 4 Claims. (Cl. 12—142.)



1. The process of producing shoes and the like, which comprises attaching a temporary insole provided with a peripheral strip, to a last, attaching an upper to the last so that its edge overlaps the edge of said temporary insole, stapling the strip of the insole together with the edge of said upper, permitting the upper to set and shape itself to the form of the last, removing the means of attachment holding the temporary insole and upper to the last, removing the last, sewing a sole to the upper and removing the temporary insole.

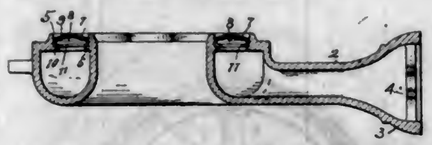
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1,691,168. MUSICAL INSTRUMENT. JOSEPH RAFSEVEZ, Philadelphia, Pa. Filed Mar. 28, 1927. Serial No. 178,890. 4 Claims. (Cl. 84—294.)



1. A stringed musical instrument including a hollow violin body having front, back and side walls, a horn disposed partly within the body and extending through one of the side walls, and a bowl on the inner end of the horn having its opening disposed in close proximity to the front wall.

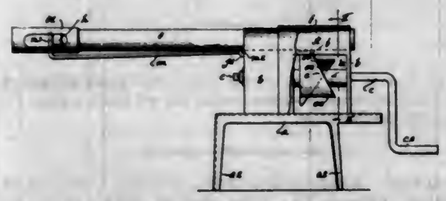
1,691,169. BURNER. JOHN P. REINECKE, Lorain, Ohio, assignor to The Hoffman Heater Company, Lorain, Ohio, a Corporation of Ohio. Filed Apr. 20, 1923. Serial No. 633,506. 5 Claims. (Cl. 158—99.)



1. A gas burner comprising a hollow body having an opening, an insert member mounted in said opening, said insert member being hollow and having an outer wall which is rounded on its outer surface and flat on its inner surface, thereby providing a wall of varying thickness there being ports drilled through said wall.

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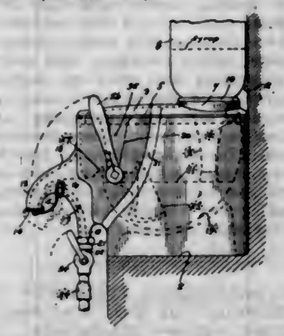
1,691,170. TOY MACHINE GUN. WILLIAM F. SCHMIDT, Wyandotte, Mich., assignor to All Metal Products Company, Wyandotte, Mich., a Corporation of Michigan. Filed Nov. 29, 1926. Serial No. 151,309. 5 Claims. (Cl. 124—13.)



1. In an apparatus of the kind described, the combination of a barrel, a piston adapted to reciprocate in said barrel, a spring acting to press said piston forward, a wire rigidly secured to said piston and extending rearwardly therefrom, a cork adapted to be inserted in said barrel in front of said piston, means for guiding said cork into position in said barrel, a wire secured to said first mentioned wire to move therewith and adapted to engage said cork to force the same into position in said barrel when said piston is retracted and means for continuously retracting and releasing said first mentioned wire.

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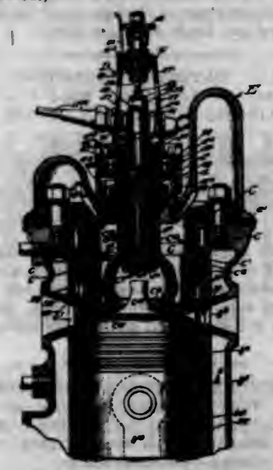
1,691,171. DISPENSING DEVICE. WALTER E. TWICHELL, San Francisco, and WALLACE B. TWICHELL, St. Helena, Calif. Filed May 13, 1925. Serial No. 29,924. 2 Claims. (Cl. 221—97.)



1. A dispensing device of the character described comprising a receptacle provided with a spout projecting from one side, a tiltable ladle within the receptacle arranged for ladling liquid from the receptacle for ejection from the spout, said ladle being mounted on trunnions, one resting on a bearing formed within the receptacle, and the other extending through an opening in the side wall of the receptacle and provided with a handle lying adjacent said wall.



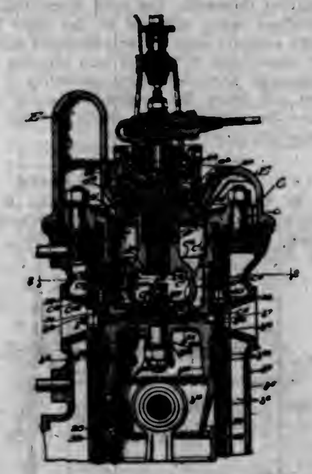
1,691,172. FUEL INJECTOR FOR INTERNAL-COMBUSTION ENGINES. AAGE E. WINCKLER, Milwaukee, Wis. Filed Mar. 26, 1925. Serial No. 18,381. 15 Claims. (Cl. 123—32.)



1. In a fuel injector for internal combustion engines, the combination of an injection valve provided with a stem, a casing in which said valve-stem is slidably mounted for delivering fuel into the combustion chamber of an engine, means operable by the pressure of the fuel, for operating the valve, a sleeve disposed outside of the casing and extending around and fixed to move with the valve-stem, and fuel delivering means connected to the sleeve, and means forming a fuel passage between the sleeve and the valve for conducting fuel from the delivering means to the casing.

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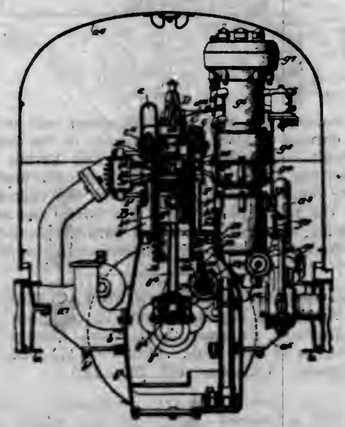
1,691,173. COMBUSTION CHAMBER FOR INTERNAL-COMBUSTION ENGINES. AAGE E. WINCKLER, Milwaukee, Wis. Filed Mar. 26, 1925. Serial No. 18,382. 4 Claims. (Cl. 123—32.)



1. In an internal combustion engine, the combination of a cylinder, a reciprocating piston therein, a cylinder head provided with a combustion chamber coaxial with the cylinder, an injector connected to the upper end of the head and positioned to spray fuel into the combustion chamber, said head having a wall at its lower end with an opening therein between the cylinder and said chamber, the chamber having a greater diameter than the opening, and a circular tip on the end of the piston, having a base portion disposed adjacent said wall and a top portion smaller in diameter than said opening and adapted to extend into the combustion chamber so that the fuel and air will be mixed in the chamber between the side wall thereof and the tip, the upper end of the top portion of the tip being flared outwardly so as to direct the air from the base portion upwardly and outwardly toward the upper and outer portion of the combustion chamber.

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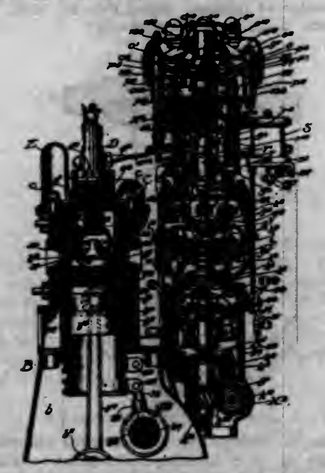
1,691,174. INTERNAL-COMBUSTION ENGINE. AAGE E. WINCKLER, Milwaukee, Wis. Filed Mar. 26, 1925. Serial No. 18,384. 4 Claims. (Cl. 123—32.)



1. The combination of an internal combustion engine comprising a casing and a series of cylinders, a fuel injector for each cylinder, a plurality of sleeve-valves in each cylinder, a shaft driven by the engine for operating said sleeve-valves, and enclosed fuel feed mechanism removably secured to the casing, and gearing driven by the shaft for driving the fuel feed mechanism.

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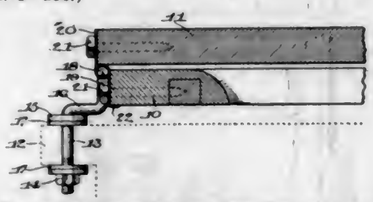
1,691,175. FUEL-FEEDING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. AAGE E. WINCKLER, Milwaukee, Wis. Filed May 25, 1925. Serial No. 32,550. 45 Claims. (Cl. 123—140.)



1. In mechanism for feeding fuel to a multi-cylinder internal combustion engine, the combination of an enclosing casing, a drive-shaft longitudinally disposed therein, a

series of fuel pumps annularly arranged around and substantially parallel with the axis of the shaft, mechanism driven by the shaft for operating said fuel pumps, metering valves annularly arranged in said casing and extending longitudinally of the pumps and shafts and mechanism driven by said shaft for operating the metering valves.

1,691,176. CLOSET SEAT. EUGENE A. ZUNDEL, Chicago, Ill. Filed Jan. 2, 1926. Serial No. 78,904. 8 Claims. (Cl. 4—236.)



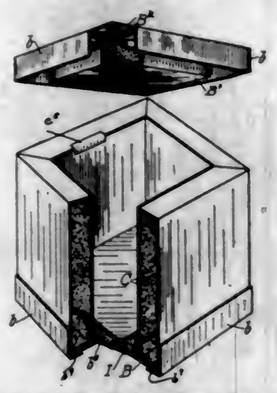
1. In combination with a wooden closet seat and cover, a hinge formed of hinge plates secured to the rear edges of the seat and cover respectively and having aligned barrel sections, and hinge posts with horizontal pintle arms extending into the barrel sections from the opposite ends thereof, the hinge plates when the cover and seat are closed being arranged in vertical parallel planes spaced apart a distance equal to the diameter of the hinge barrel.

1,691,177. MEANS FOR OBTAINING VACUUMS. CLARENCE W. BALKE, Highland Park, Ill., assignor to Fansteel Products Company, Inc., North Chicago, Ill., a Corporation of New York. Filed Feb. 17, 1927. Serial No. 168,850. 5 Claims. (Cl. 250—27.5.)



5. In a vacuum tube, a filament, a piece of columbium adjacent said filament so as to be heated thereby and to absorb gases present in the tube.

1,691,178. INSULATING SHIPPING CONTAINER. GEORGE B. BEAMAN, Fort Wayne, Ind., assignor to Fort Wayne Corrugated Paper Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Feb. 20, 1925. Serial No. 10,592. 2 Claims. (Cl. 229—14.)



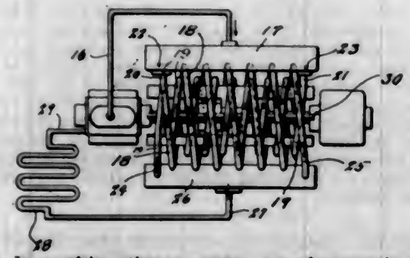
1. For use in constructing an insulating shipping container, made up of a plurality of separately assembled sections comprising an inside tubular element and a head for each end thereof, and an outer casing, a creased blank and a creased and slotted blank from which the main walls of the inside tubular element of said container are formed, two creased and slotted blanks from which the walls of each head are formed, said head having a channel within which an end of the inside tubular element seats and a creased and slotted blank to form an outer casing for said tubular member and heads when assembled.

1,691,179. MATERIAL-FASTENING DEVICE. CHARLES BETZ, St. Louis, Mo. Filed June 14, 1926. Serial No. 115,934. 1 Claim. (Cl. 72—118.)



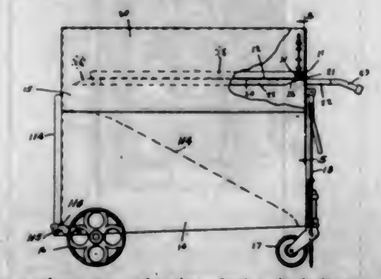
A wall-board joint-concealing and fastening strip of substantially T-cross-section and comprising a web and a pair of oppositely disposed flanges presented outwardly from an end of and at an angle to the web, each of said flanges having a down-turned serrated lip along its outer margin.

1,691,180. CONDENSER FOR REFRIGERATING APPARATUS. JOHN O. CARREY, St. Louis, Mo., assignor to C & C Engineering Co., Inc., St. Louis, Mo., a Corporation of Missouri. Filed June 28, 1926. Serial No. 119,106. 5 Claims. (Cl. 257—39.)



1. In a refrigerating apparatus, a condenser unit comprising two different sized sections of coiled pipe, the smaller section being arranged within the larger and in spaced relation therewith, the inlet connections of both of said sections being disposed in the same horizontal plane at the opposite ends of the respective sections, and the outlet connections of both of said sections being disposed in the same horizontal plane oppositely to said inlet connections and below the longitudinal plane thereof so as to cause the refrigerant to travel through said sections in opposite directions.

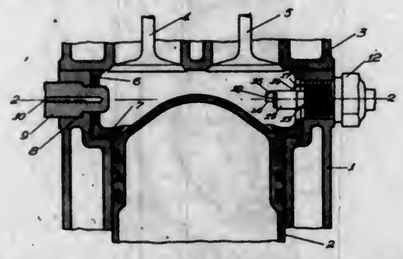
1,691,181. POULTRY-PAN-CLEANING DEVICE. HENRY B. COATS, Veedersburg, DONALD E. JAQUES, Thorntown, and ARTHUR W. HOLMES, Veedersburg, Ind. Filed Aug. 26, 1926. Serial No. 131,600. 7 Claims. (Cl. 15—93.)



1. A poultry tray cleaning device including a tray receiving compartment, a tray supporting frame slidable therein, and cleaning means mounted in said compartment reciprocable towards and from the tray supporting frame for cleaning a tray on said frame as the latter is moved with reference to the compartment and cleaning means.

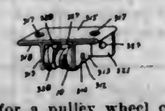


1,691,182. INTERNAL-COMBUSTION ENGINE. GEORGE K. DAVOL, San Francisco, Calif., assignor to Charles A. Brown, Hinsdale, Ill. Filed Aug. 26, 1921. Serial No. 495,478. 8 Claims. (Cl. 123—32.)



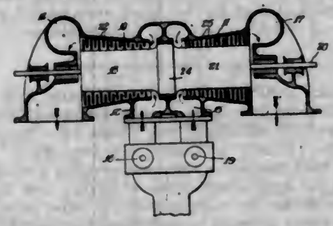
1. The method of operating an internal combustion engine consisting of stratifying or segregating a charge of fuel and air within a combustion chamber by centrifugal action into zones or strata of different fuel densities and igniting the charge at points of different fuel densities.

1,691,183. CATCH PULLEY. WILLIAM H. FORSE, Jr., Anderson, Ind. Filed Mar. 7, 1927. Serial No. 173,235. 2 Claims. (Cl. 254—191.)



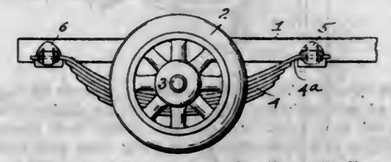
1. A mounting for a pulley wheel comprising an elongated sheet metal strip having an intermediate base forming portion, a pair of ear forming portions integral therewith and positionable at right angles to the base forming portion for rotatably supporting said pulley wheel in spaced relation to the base portion, said base portion projecting laterally of and beyond the ear portions, and an intermediate connecting portion constituting a return bend lying parallel to and reinforcing said base portion and connecting each ear to the base portion, each ear portion including a return bend portion extending from the free end of the ear toward the base and terminating in abuttable relation therewith for reinforcing said ear, each ear return bend portion including an angular extension lying parallel to said base portion within the pulley receiving channel formed by the ears, each extension terminating short of the other to form a cord receiving groove therebetween.

1,691,184. TURBINE CONSTRUCTION. KARL FREY, Ennetbaden, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company of Switzerland. Filed July 7, 1927, Serial No. 204,120, and in Germany July 12, 1926. 2 Claims. (Cl. 253—67.)



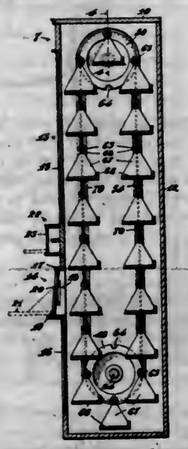
1. In a steam turbine of the double flow type, in combination, a casing affording respective working cylinders arranged to transmit steam in different axial directions, a common shaft served by said cylinders, blading in the cylinders arranged to induce rotation of the shaft in the same direction, means for controlling steam admission to different cylinders independently, a thrust balancing element carried by the shaft and subject to pressure of steam in different cylinders, and auxiliary blading carried by said element for controlling the flow of steam from one cylinder to another.

1,691,185. VEHICLE-SPRING CONNECTION. GILBERT C. GOODE, East Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 9, 1922. Serial No. 605,838. 1 Claim. (Cl. 267—56.)



In a motor vehicle, longitudinally extending angle frame members, an axle, a wheel mounted on the axle, a spring extending longitudinally of the vehicle connected to the axle and having its ends free, angle brackets embracing the axle frame members and connected thereto upon opposite sides of the axle, said brackets having downwardly facing channels spaced laterally outwardly from the frame members for receiving the free ends of said spring, and lining members of fibrous material secured to said brackets and covering the bottoms of said channels, said linings having a rubbing contact with the free ends of the spring upon which they bear.

1,691,186. CABINET. AUGUST GRETH, Los Angeles, Calif. Filed Jan. 22, 1923. Serial No. 614,112. 1 Claim. (Cl. 312—97.)

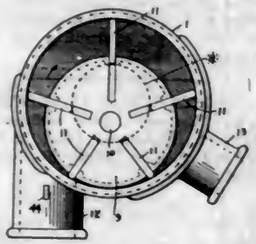


In a cabinet of the character described, a plurality of individually flexible links, each link having a ring at each of its ends, the rings of each link overlapping rings of adjacent links, a plurality of rods extending through the rings thus forming a chain of said links, a pair of spaced sheaves having peripheral notches adapted to receive said rods, supporting said chain, and a carrier suspended from each of said rods.

1,691,187. LUBRICANT METER. ORA B. HALEY, San Francisco, Calif. Filed Feb. 23, 1927. Serial No. 170,198. 7 Claims. (Cl. 73—37.)

1. A liquid meter comprising a body provided with a circular chamber open at one end, a vaned rotor revolvably mounted in the chamber, indicating means connected with

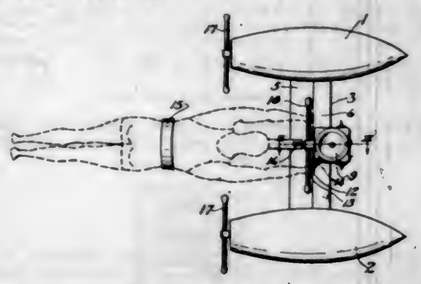
said rotor adapted to indicate the number of revolutions of the same, outlet and inlet ports to the chamber arranged to cause revolution of the rotor upon forcing a



liquid through the ports and chamber, a cover on the open end of said chamber, and a disk fitting against the end face of said rotor beneath the cover, and means for adjusting said disk toward and away from said rotor.

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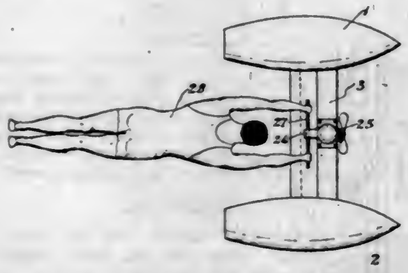
1,691,188. PROPELLED BATHING DEVICE. JUDSON HALL, Hartland, Wis., assignor of one-fourth to Benjamin F. Bayha and one-fourth to Herbert A. Bell, Milwaukee, Wis. Filed Nov. 7, 1927. Serial No. 231,407. 5 Claims. (Cl. 9—21.)



5. In combination, a buoyant unit, propulsive means mounted thereon, means on said unit graspable by a user in such a manner that said user will be towed behind said unit in the liquid floating the same, means graspable by said user and operable when released to stop said propulsive means, and means for retaining said user connected to said element when the grasp of said user is released.

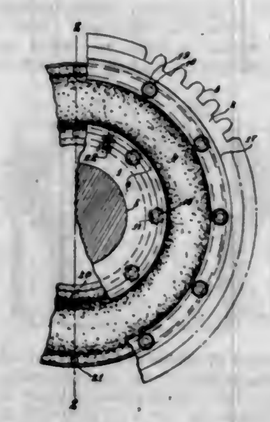
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1,691,189. FLOATABLE TOY. JUDSON HALL, Hartland, Wis., assignor of one-fourth to Benjamin F. Bayha and one-fourth to Herbert A. Bell, Milwaukee, Wis. Filed Nov. 7, 1927. Serial No. 231,408. 10 Claims. (Cl. 46—37.)



10. In a toy, a floatable unit, means carried by said unit, and a doll-like body secured to said means and extending rearwardly of said unit.

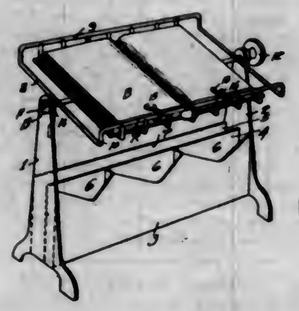
1,691,190. FLEXIBLE GEAR. SCHUYLER C. HATFIELD, Baltimore, Md. Filed Mar. 9, 1927. Serial No. 173,920. 3 Claims. (Cl. 74—29.)



1. A machine gear having an outer ring adapted to engage a cooperating gear, a hub member surrounded by the ring member and spaced therefrom radially, a hollow pad between the hub and ring member, the pad having inner and outer beads, the ring member having bead clamping means on its inner periphery and the hub member having bead clamping means on its outer periphery.

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1,691,191. BOOKRACK. ELLA C. HENDERSON, Pullman, Wash. Filed Jan. 31, 1927. Serial No. 164,665. 2 Claims. (Cl. 45—80.)



1. The combination with a pair of spaced posts and longitudinally disposed, spaced boards joined at their ends to said posts to form pockets between the posts, of a bookrack pivoted in the upper ends of the posts, and means for retaining said rack in adjusted position.

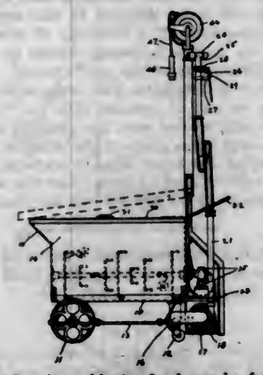
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1,691,192. DISPENSING DEVICE. ARTHUR W. HOLMES, Veedersburg, DONALD E. JAQUES, Thorntown, and HENRY B. COATS, Veedersburg, Ind. Filed June 25, 1926. Serial No. 118,467. 2 Claims. (Cl. 221—80.)

1. A fluid dispensing machine including a tank for containing the fluid, wheels upon which the tank is mounted so as to render the same portable, a frame secured to the tank, a pump mounted in said frame for forcibly discharging the contents of the tank, an electric motor mounted in said frame for operating the pump, a standard mounted on the upper end of said frame so that it can be maintained



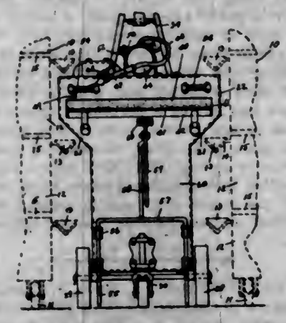
in an upright position or turned down upon the top of the tank as desired, a reel on the upper end of the standard, and an electric supply line on said reel and connected with



said motor, whereby said standard can be folded down on said tank when the machine is not in operation and when moved about in a poultry house, substantially as set forth.

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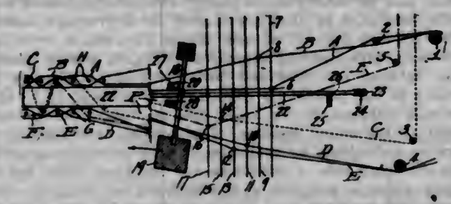
1,691,193. PORTABLE CLEANER. ARTHUR W. HOLMES, Veedersburg, DONALD E. JAQUES, Thorntown, and HENRY B. COATS, Veedersburg, Ind. Filed June 25, 1926. Serial No. 118,468. 1 Claim. (Cl. 15—21.)



A cleaning device for poultry crate pens and the like including a lower compartment and above it a wider compartment, communicating therewith and with an opening to receive the crate pans to be cleaned, wheels for supporting said lower compartment to render the device portable, and means mounted in said upper wider compartment for cleaning the crate pans when placed therein and discharging the waste into the lower compartment.

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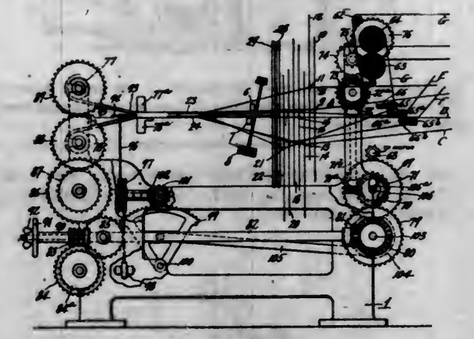
1,691,194. LOOM AND METHOD OF WEAVING DOUBLE-PILE FABRICS. HENRY HOWARD, Seymour, Conn., assignor to Tingue Manufacturing Company, Seymour, Conn., a Corporation of Connecticut. Filed May 3, 1927. Serial No. 188,492. 19 Claims. (Cl. 139—37.)



1. A loom for weaving double pile fabrics, face to face, at the same time, including in combination, vertically incompressible fabric separating and pile weft supporting ribbons, of greater height than width, the height of said ribbons determining the height of the pile of both fabrics, said ribbons extending lengthwise of the loom and between the two fabrics, means for supplying ground warp, pile warp and weft threads for each fabric, and means for weaving said fabrics above and below and intermediate the ends of the said ribbons.

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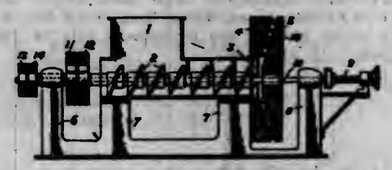
1,691,195. LOOM AND METHOD OF WEAVING DOUBLE-PILE FABRICS. HENRY HOWARD, Seymour, Conn., assignor to Tingue Manufacturing Company, Seymour, Conn., a Corporation of Connecticut. Filed Aug. 18, 1927. Serial No. 213,762. 17 Claims. (Cl. 139—21.)



1. A loom for weaving double pile fabrics face to face, comprising in combination two sets of ribbons, one set arranged beyond the other, so as to space apart the fabrics being woven, each ribbon extending warpwise of the loom, means for supplying ground warps for the respective fabrics woven about each of the two sets of ribbons, and means for supplying wefts to the ground warps.

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1,691,196. APPARATUS FOR PRODUCING HARD HOMOGENEOUS FUEL OR SIMILAR OBJECTS FROM PEAT, PEAT MOSS, LIGNITE, OR THE LIKE. BOHUMIL JIROTKA, Berlin, Germany, assignor to the Firm Dr. Otto Sprenger Patentverwertung Jirotka mit beschränkter Haftung, Vaduz, Litchtenstein. Original application filed May 29, 1926, Serial No. 112,536, and in Germany Aug. 13, 1921. Divided and this application filed Feb. 11, 1927. Serial No. 167,508. 8 Claims. (Cl. 83—8.)



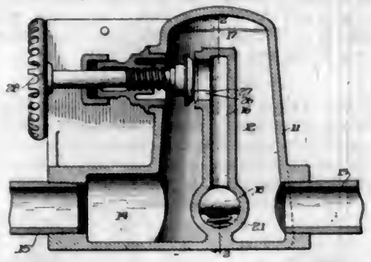
3. A device for producing hard, homogeneous fuel or similar objects from peat, peat-moss, lignite and the like, comprising a pressure-feed channel in combination with a cooperating grinding device, the movable surface of which is provided with adjustable and elastic rubbing members acting upon the other surface.

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1,691,197. WATER-MIXING VALVE. ADOLPH T. JOHANSON, Chicago, Ill. Filed Feb. 29, 1928. Serial No. 257,829. 4 Claims. (Cl. 236—12.)

1. In a water-mixing valve, the combination of a hollow valve-casing having a hollow partition extended across the chamber thereof but terminating short of the top wall of the casing, the interior of said partition having a discharge port near the top of one side wall thereof, means to admit water into the lower portion of said chamber at the side of said partition opposite said discharge port, means to

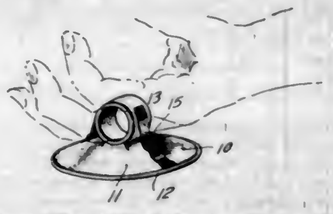
admit water into said partition, means to deliver the mixed waters from the lower portion of said chamber on the same side of said partition as the discharge port of said partition,



and means subject to the temperature of the mixed delivering water controlling the flow of one of said water supplies to said valve.

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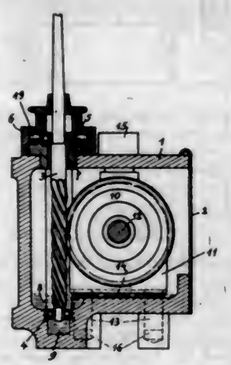
1,691,198. VACUUM LIFTER. LEWIS JONES, New York, N. Y. Filed Oct. 29, 1927. Serial No. 229,766. 1 Claim. (Cl. 294—64.)



A vacuum lifter adapted for operation on the hand of the user comprising a suction member of resilient material, a ring shaped gripping member connected thereto and having a reduced neck portion, and an elastic band connecting portions of the rim of said suction member at oppositely disposed points with said gripping member, said band being operable by a digit of the hand, operating such lifter to raise the edges of the suction member to break the vacuum thereon.

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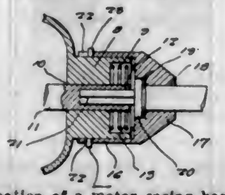
1,691,199. SUPPORTING MEANS FOR SPINDLES IN SPINNING MACHINES AND THE LIKE. JOHANN JACOB KEYSER, Aarau, Switzerland. Filed Dec. 8, 1923, Serial No. 679,479, and in Germany July 14, 1923. 1 Claim. (Cl. 308—169.)



A spindle bearing and lubricating structure for spinning and twisting machines comprising a casing having an integral bottom wall constituting a depressed lubricant channel and a plurality of spaced lubricant cavities communicating therewith at their upper ends, a plurality of spindles supported in and by the said casing, actuating worms on the said spindles extending into the said lubricant channel and being adapted to lift lubricant therefrom upon being rotated, a plurality of worm gears engaging with the spindle actuating worms at a point supplied with lubricant from the said channel by and upon rotation of the said spindles and being arranged at such a level as to be out of contact with the lubricant that may be on the said bottom wall, a supporting and actuating shaft for the said worm gears, upper resilient bearings for the said spindles and lower spindle bearings at the junctions of the said lubricant channel and the said lubricant cavities substantially as and for the purpose described.

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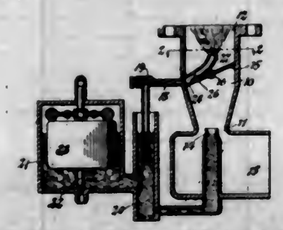
1,691,200. HOUSEHOLD-MOTOR COMBINATION. RICA KRUG, Gardner, Ill. Filed Dec. 30, 1925. Serial No. 78,377. 1 Claim. (Cl. 64—89.)



The combination of a motor casing having a projecting, exteriorly circular block with a longitudinal central bore therein, said block also having a forward chamber and diametrically opposite exterior pins, a motor shaft turnable in the bore of said block and having a longitudinal socket of angular cross section in its forward portion, a sleeve receiving and turnable about said block and having bayonet slots receiving said pins, a shaft journaled in said sleeve and having a portion of angular cross section sheathed in said angular socket; said sleeve abutting against said shaft, and holding the angular portion thereof in the angular socket of the first named shaft, and an expansible coiled spring disposed in the block chamber and coiled about the motor shaft and interposed between the transverse wall of the chamber and an opposed portion of the sleeve.

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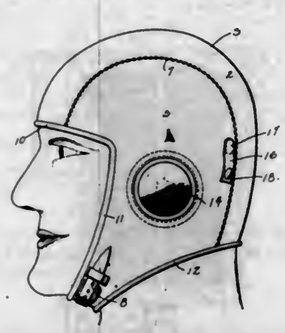
1,691,201. CARBURETOR. ELWOOD T. LARKIN, Buffalo, N. Y., assignor to Charles A. Criqui, Buffalo, N. Y. Filed July 2, 1926. Serial No. 120,202. 1 Claim. (Cl. 261—41.)



A carburetor comprising a mixing chamber having an inlet and an outlet, an air supply conduit communicating with said inlet, an auxiliary conduit for delivering a liquid fuel jet into the side of said mixing chamber, a butterfly throttle valve pivotally supported within the mixing chamber between the inlet and outlet thereof and having a notch in one part of its edge which is adapted to be arranged adjacent to the lower side of said auxiliary conduit in the closed position of said valve, and deflecting means comprising an extension or deflecting tube secured to the upper side of said valve and having a radial lower part which is adapted to communicate at its outer end with said auxiliary conduit and an upwardly turned inner part which is arranged to discharge adjacent to the axis of the mixing chamber.



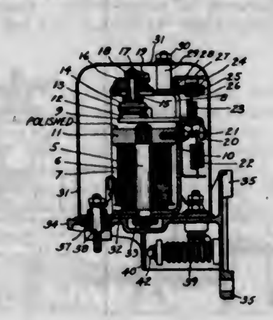
1,691,202. HELMET. REABOURNE C. LA VAN, Dayton, Ohio. Filed June 9, 1926. Serial No. 114,749. 5 Claims. (Cl. 2—6.)



1. A helmet comprising a pair of similarly shaped top sections extending from front to rear of the helmet, one on each side of the plane of symmetry thereof and attached together by a seam from the front to the rear of the helmet along the plane of symmetry, and a a pair of side pieces, one for each side of the head, said pieces being joined to the adjacent top sections along lines substantially concentrically parallel with the central seam as viewed from the side.

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1,691,203. ELECTROMAGNETIC INSTRUMENT. THOMAS L. LEE and HENRY C. ROHR, Rochester, N. Y., assignors to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 27, 1923. Serial No. 659,597. 4 Claims. (Cl. 200—87.)

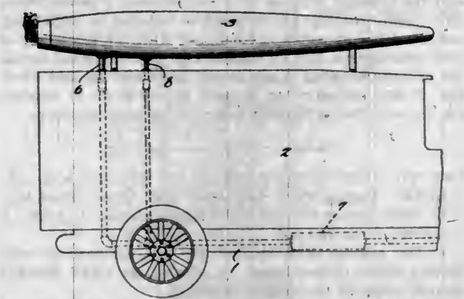


3. In an electromagnetic instrument, the combination of a core provided with a winding; a magnetic yoke attached to the lower end of the core; an armature cooperating with the upper end of the core; a magnetic temperature-compensating shunt, comprising a body of suitable alloy, extending between the upper end of the core and an adjacent part of the yoke; contacts, controlled by the armature, of which one is fixed on the yoke; a heat-conductive cover enclosing the foregoing parts; and a heat-conductive connection from the cover to the yoke, at a point relatively near to said contact and remote from the compensating shunt, said connection serving also as means for securing the cover in place.

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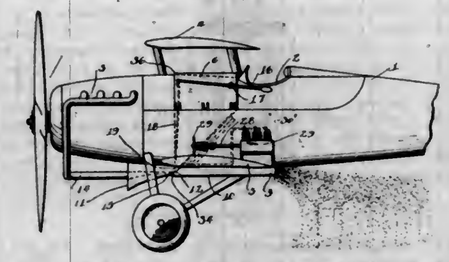
1,691,204. ADVERTISING DEVICE. OTTIS F. MEADOWS, Asheville, N. C. Filed Sept. 21, 1926. Serial No. 136,833. 1 Claim. (Cl. 40—126.)

The combination with a motor propelled vehicle including a body, of a hollow casing mounted on the body simulating an article being advertised, said casing having an outlet opening from which the bottom portion of the casing is inclined downwardly, a screen extending across the outlet opening, means for directing exhaust gases to the casing from the engine of the vehicle, and a drain pipe extending from the lowest portion of said casing downwardly to a point below the body of the vehicle for delivering accumulated oil and the like onto the ground.



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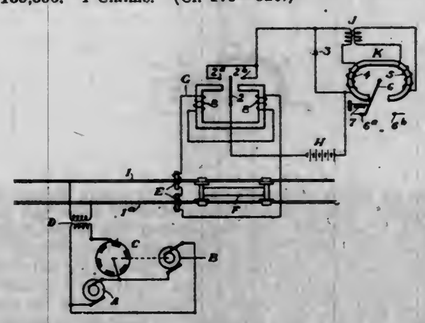
1,691,205. POWDER-DISTRIBUTING APPARATUS. ALAN L. MORSE, Dayton, Ohio. Filed Apr. 24, 1925. Serial No. 25,721. 9 Claims. (Cl. 244—1.)



1. A distributor for distributing substances to the atmosphere from an aircraft, comprising in combination with the aircraft a hopper mounted thereon and a Venturi shaped distributor having a flattened rear portion mounted beneath the aircraft with its restricted throat in communication with the hopper to receive the substances therefrom, the flattened rear portion of the distributor being mounted beneath and adjacent the rear edge of the wing, for the purpose described.

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1,691,206. ELECTRICAL APPARATUS. LEWIS L. NETTLETON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 14, 1926. Serial No. 135,356. 4 Claims. (Cl. 175—320.)



4. In combination, a vibration relay supplied at times with periodically interrupted alternating current and tuned to the frequency of such alternating current, said relay

having two contacts closed respectively at each end of the stroke of the vibrating member, a circuit including said two contacts in multiple as well as a source of current and the primary winding of a transformer, a second relay having two windings one of which is included in said circuit and the other of which is connected with the secondary of said transformer, and an asymmetric unit connected across the primary winding of said transformer and the first winding of said second relay in such direction as to conduct the current due to the self-induction of such windings.

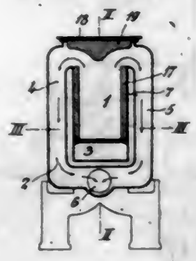
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1,691,207. PROCESS OF REFINING METALS AND ALLOYS. ALADAR PACZ, East Cleveland, Ohio. Filed May 11, 1921, Serial No. 468,778. Renewed Mar. 1, 1926. 6 Claims. (Cl. 75—1.)

1. The process of refining a metallic composition containing silver characterized by stirring an alkali fluoride therein while in the molten condition.

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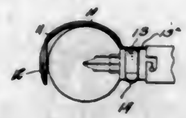
1,691,208. HEATING STOVE. CARL EMIL PEDERSEN, Borg, Ostre Aker, near Oslo, Norway. Filed June 17, 1926, Serial No. 116,710, and in Norway Nov. 21, 1924. 2 Claims. (Cl. 126—69.)



1. In a heating stove, a fire pot, flues extending around the sides and bottom of said fire pot and connected to said fire pot adjacent its upper end, said flues being spaced from said fire pot below the points of connection, by a continuously open U-shaped air gap extending under said fire pot and at the sides, from the front to the back of the stove, leaving said fire pot wholly unsupported at the lower part and at the sides up to said points of connection.

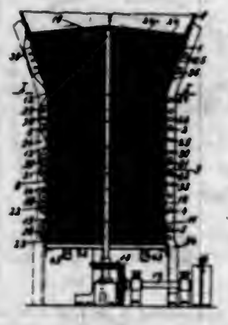
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1,691,209. ANTIGLARE SHIELD FOR AUTOMOBILE LAMPS. DREW REYNOLDS and HARRY L. SIMPSON, Denver, Colo. Filed Aug. 23, 1927. Serial No. 214,922. 1 Claim. (Cl. 240—48.6.)



As an article of manufacture, an anti-glare dimmer for headlights formed from a single sheet of metal and providing a relatively wide, transversely flat longitudinally curved body portion having a longitudinally extending rib, a concavo-convex disk-like portion at the forward end of the body portion connected by a neck thereto and extending substantially at right angles to the body portion, the body portion having a rear extension, the rear end of which is adapted to fit within the socket of a lamp and said extensions having curved confronting lugs adapted to embrace the base of a lamp bulb.

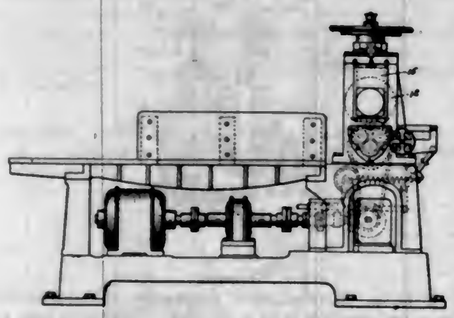
1,691,210. GRINDING AND PULVERIZING MILL. BERNHARD SCHERBAUM, Wedel, Germany. Filed Dec. 23, 1925, Serial No. 77,355, and in Germany Dec. 31, 1924. 6 Claims. (Cl. 83—44.)



1. A grinding and pulverizing mill comprising an outer body arranged axially vertically, said body being formed of superposed sections, said sections being formed with peripheral teeth, said teeth being of varying size and depth, and a solid inner body coaxial with said outer body, said solid body being formed with corresponding teeth entering the inter-dental spaces of the teeth of the outer body into grinding relation therewith.

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1,691,211. MANUFACTURE OF SPRINGS. JAMES M. SCHOONMAKER, Jr., Sewickley, and DONALD T. GLEASON, Coraopolis, Pa., assignors to Standard Steel Spring Company, a Corporation of Pennsylvania. Filed May 6, 1925. Serial No. 28,396. 11 Claims. (Cl. 153—54.)



1. The method of bending which consists in passing a blank between rolls, releasing said blank from the pressure of said rolls, positioning the end of said blank a predetermined distance from said rolls and completing the rolling thereof.

6. A bending machine for the eye plates of leaf springs including in combination, bending rolls, one of said rolls having a concavity for accommodating the spring eyes formed at each end of the blank and means permitting the adjustment of said blank during rolling so that said concavity receives the eye at the rear of each blank as it passes through said rolls.

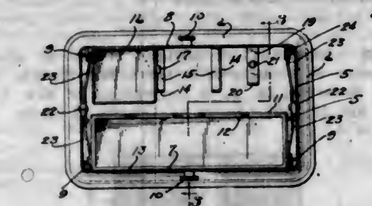
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1,691,212. SMOKER'S CABINET. SAMUEL B. SKLAR, Minneapolis, Minn. Filed Oct. 31, 1927. Serial No. 229,996. 1 Claim. (Cl. 312—155.)

A smoker's cabinet comprising a shell having a door opening a door normally closing said opening and having on its back a pair of laterally spaced upright channel members,



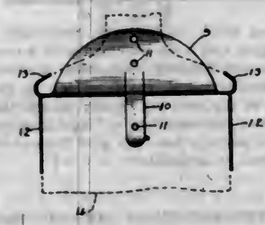
the webs of which at their lower ends are turned laterally inward, said channel members affording a holder for a package of cigarettes one of said channel members having a



notch in the upper end of its web, an ash tray having a headed stud extending into said notch and supporting the ash tray from said channel member.

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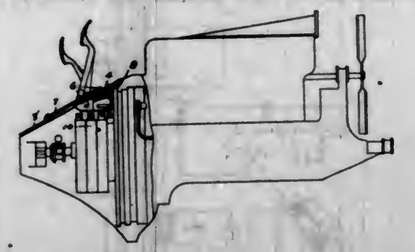
1,691,213. TELEPHONE SUPPORT. GEORGE W. SMITH, Chicago, Ill. Filed Feb. 14, 1927. Serial No. 168,020. 1 Claim. (Cl. 248—20.)



In a one-piece support for telephone instruments, an oblong base having one projected rounded edge, an upturned flange formed upon the base opposite said edge and disposed at right angles thereto, downturned parallel prongs formed laterally of said base and contiguous to said flange, a tongue struck from said base and flange jointly and in the common direction of said prongs and disposed between the same and at right angles to said base, and oppositely disposed twin curved tongues extending upwardly from said base contiguous to said rounded edge, all of the before-mentioned elements being permanently fixed with relation to each other, substantially as and for the purpose set forth.

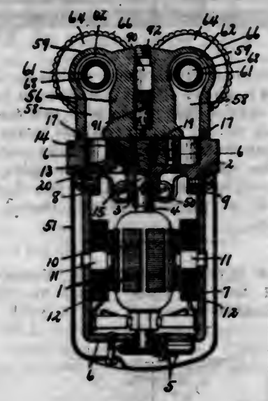
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1,691,214. LUBRICATION SYSTEM. TALCOTT P. SMITH, Washington, D. C. Filed Mar. 29, 1924. Serial No. 702,984. 4 Claims. (Cl. 184—11.)



2. In a lubricating system for internal combustion engines of the Ford type, an oil deflector adapted to be secured to said engine and a flexible closure member secured to said deflector and extending to a point laterally of and near the upper periphery of the fly-wheel of said engine and adjacent the transmission housing thereof, said closure member being adapted to be actuated to function as such by the flow of oil particles being thrown off from the fly wheel due to centrifugal force.

1,691,215. SIGNALING DEVICE. WILLIAM SPARKS, THEODORE JOHNSON SCOFIELD, LLOYD ELMER JOHNSON, and FRED WILLIAM BILLIG, Jackson, Mich., assignors to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed May 18, 1927. Serial No. 192,330. 16 Claims. (Cl. 116—142.)



1. A signaling device comprising a motor, a rotary compressor driven thereby, a horn body having a passageway in communication with the pressure side of the compressor and formed at its upper end with a tubular boss, a projector having its rear end mounted in said boss, a tube mounted in the boss, a diaphragm chamber mounted in the boss and spaced from the exterior wall of the tube to form an annular passageway, a diaphragm in said chamber extending acros the end of said tube, and means for maintaining atmospheric pressure on the side of the diaphragm opposite the tube.

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1,691,216. WRENCH. JOHN STROBEL, Burlingame, Calif. Filed July 11, 1927. Serial No. 204,705. 3 Claims. (Cl. 81—165.)



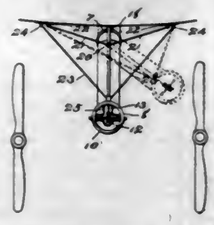
2. A wrench comprising a handle provided at one end with a jaw mounting head, a pair of duplicate jaw plates having independent interlocking engagement with the opposite faces of the jaw head, each provided with a jaw, said plates mounted on the outer faces of the jaw mounting head and independently movable transversely thereof, an adjusting screw carried by each jaw plate and each having independent threaded engagement with the head whereby said jaws are capable of independent adjustment transversely of the head and to and from each other.

1,691,217. VEHICLE SUSPENSION MEANS. LESTER M. WALDEN, Chicago, Ill. Filed Aug. 4, 1923. Serial No. 655,573. 10 Claims. (Cl. 280—106.5.)



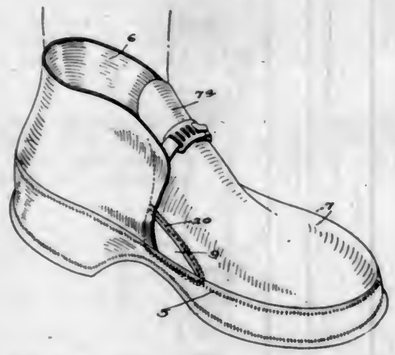
1. The combination with a motor vehicle having a body, a rear axle and a pair of elliptical suspension springs pivoted at their forward ends to the body and connected between their ends to said axle, of resilient means connected between the opposite ends of said springs and the body, said means being operable to transmit relative movement between the spring and the body at one side thereof to the spring and body at the opposite side thereof but in a reverse direction.

1,691,218. AIR SCOOP. STEPHEN R. WARREN, Dayton, Ohio. Filed Apr. 30, 1923. Serial No. 635,628. 5 Claims. (Cl. 244—6.)



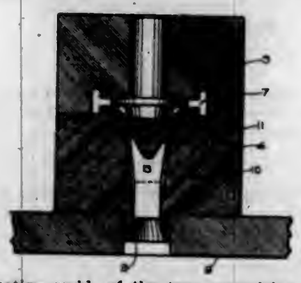
1. An air scoop for dirigibles or the like embodying an air tube, a visible hood for closing and opening the intake mouth thereof, and means permitting said tube to be swung laterally to move the intake mouth thereof into and out of the propeller slip stream.

1,691,219. BUCKLE OVERSHOE. ADELBERT D. WINN, Toronto, Ontario, Canada. Filed Mar. 4, 1927. Serial No. 172,792. 2 Claims. (Cl. 36—5.)



1. In an arctic overshoe comprising a sole section, and an upper made up of a rear section and a forward section having its rear extremity extending over the instep and providing a tongue, the combination of an elastic insert section, the instep side of said forward upper section being free of attachment with said sole section for a substantial distance forwardly from its rear edge, adjacent the rear edge of the forward upper section, said elastic insert section being connected to the sole section and side edge of the forward upper section beneath the instep at the inner side of the shoe whereby to relieve the instep of the binding action of the forward section of the upper, said elastic insert section being substantially concealed by the lateral flexing of the forward upper section by the instep of the foot when the overshoe is in use.

1,691,220. DIE-CASTING MOLD. HARRY A. ADAMS, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Apr. 12, 1927. Serial No. 183,208. 1 Claim. (Cl. 22—136.)

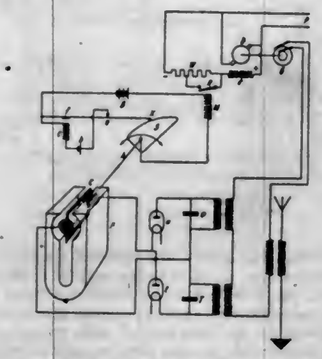


A die-casting mold, of the type comprising a die provided with a gate and a die provided with a core extending into said gate and forming, therewith, a narrow annular passage for molten metal, characterized by the fact that the extremity of the core fits closely within the extremity of the gate, and the core has a longitudinally extending slot forming a passage into the gate beyond the point at which the parts are so fitted.

1,691,221. HYDROGENIZING TAR OIL. RUDOLF BERNHARD, Bochum, and WALTER DEMANN, Cologne, Germany. Filed June 25, 1925, Serial No. 39,500½, and in Germany June 30, 1924. 3 Claims. (Cl. 196—53.)

1. The mehod of hydrogenizing tar oil comprising heating the oil to a temperature approaching its boiling point and treating same in the presence of a colloidal nickel catalyst with the dry gas resulting during the manufacture of coke, this gas being under the normal pressure prevailing in a coke oven, said catalyst being prepared by reduction at 310° C. with that part of said oil which boils between 375 and 390° C.

1,691,222. SPEED-CONTROL MEANS FOR HIGH-FREQUENCY GENERATORS. OTTO BÖHM, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed Apr. 2, 1926, Serial No. 99,253, and in Germany May 25, 1925. 9 Claims. (Cl. 171—119.)

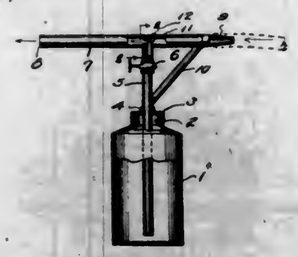


1. A speed regulating means comprising a motor field resistance, a shunting relay connected thereto, means for actuating said shunting means comprising a current



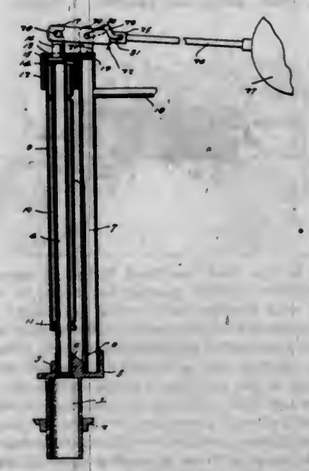
source and vibratory and adjustable contacts, means for adjusting said adjustable contact comprising a rotatable cam, and speed responsive means actuating said cam, comprising means for producing a magnetic field, a coil mounted therein and connected to said cam, and means for electrically energizing said coil with a current in one direction or the reverse according as the regulated speed departs above or below its regulated value.

1,691,223. SPRING LUBRICATOR. HORACE I. BROOKS and MACK D. NORMAN, Dallas, Tex. Filed Jan. 15, 1926, Serial No. 81,551. Renewed Apr. 2, 1928. 1 Claim. (Cl. 299—88.)



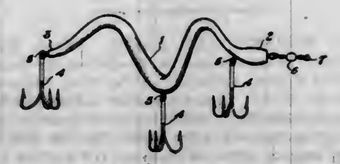
A device of the class described comprising a container for a liquid to be sprayed, a liquid supply pipe extending downwardly into the container, a pipe joined between its ends to the upper end of the first mentioned pipe and in communication therewith, the second mentioned pipe having an air inlet branch at one side of its juncture with the liquid supply pipe and a spray delivery branch at the other side of its juncture with the liquid supply pipe, a baffle extending upwardly from the side of the liquid supply pipe at the side thereof at which the air supply branch of the second mentioned pipe is located and terminating approximately at the axis of the said branch, and a transversely straight lip at the upper end of the baffle extending at right angles therefrom toward the adjacent end of the spray delivery branch of the second mentioned pipe and diametrically of the second mentioned pipe at its juncture with liquid supply pipe and above the upper end of said supply pipe.

1,691,224. BALL COCK. DAVID L. BUTLER, Blackfoot, Idaho. Filed May 4, 1927. Serial No. 188,759. 5 Claims. (Cl. 137—104.)



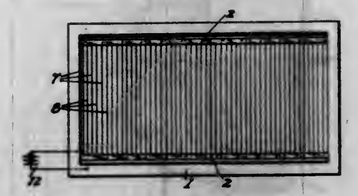
1. In a ball cock, a supply head, a main intake pipe supported at its lower end on said head and communicating therewith, an auxiliary intake pipe supported on the head and being out of communication with the head, said auxiliary intake pipe being provided with a water inlet opening in the lower portion of the side thereof, a tube surrounding the main intake pipe and being spaced therefrom to provide an annular water outlet chamber, the lower end of the tube being spaced from the lower end of the main intake pipe whereby a quantity of water discharged from the chamber will enter the auxiliary intake pipe through the inlet opening formed therein, a cap secured on the upper end of the tube, the closed end of the cap being spaced from the upper outlet end of the main intake pipe, a valve arranged within the cap for cooperation with the upper discharge end of the main intake pipe, a plug secured in the upper end of the auxiliary intake pipe, a refill pipe extending from the upper portion of the auxiliary intake pipe, a float carrying member pivotally supported on said plug, and cooperating means between the free end of the pivoted member and the valve for moving the valve into or out of engagement with the upper end of the main intake pipe.

1,691,225. FISH LURE. ROBERT L. CLEWELL and CHARLES W. CLEWELL, Canton, Ohio; said Charles W. Clewell, assignor to said Robert L. Clewell. Filed July 13, 1926. Serial No. 122,110. 7 Claims. (Cl. 43—42.)



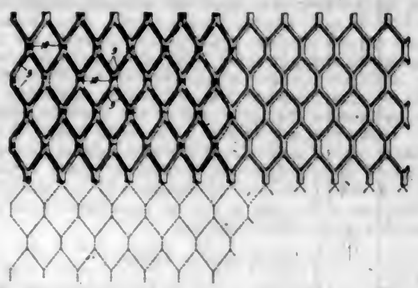
1. A fish lure comprising a sinuous body of substantially round cross section of rigid helical and spiral form, hooks carried by the body and means for attaching a line for drawing the same through the water.

1,691,226. INSECT SCREEN. HARRY HUMPHREY CRAGG, Calgary, Alberta, Canada. Filed Feb. 25, 1926, Serial No. 90,625. Renewed Sept. 15, 1928. 3 Claims. (Cl. 43—112.)



1. The combination in an insect screen, a frame, two separate and similar grids of wire supported on dielectric strips, forming a plurality of regularly spaced parallel wire members, the grids superimposed with wires facing inwardly so that all wires fall in the same plane with alternate wires belonging to separate grids and without conductive contact between the separate grids, means of supporting the said grids in the frame and maintaining their proper relative position, and means connecting the grids to the opposite poles of a source of electricity.

1,691,227. METAL LATH. LEONARD W. CROSS, Wheeling, W. Va., assignor to Consolidated Expanded Metal Companies, Braddock, Pa., a Corporation of Pennsylvania. Filed Oct. 12, 1926. Serial No. 141,074. 4 Claims. (Cl. 72—117.)



4. Metal lath having certain of its strands and bridges lengthwise of the sheet wider than the remaining strands and bridges to provide a relatively stiff and strong meshwork section running lengthwise of the sheet.

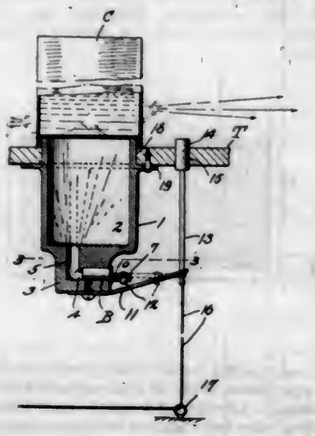
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1,691,228. DISINFECTING AGENT. KARL DAIMLER, FRITZ JUST, GERHARD BALLE, Hochst-on-the-Main, and SIGISMUND FUCHS, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 31, 1926, Serial No. 126,334, and in Germany Aug. 3, 1925. 4 Claims. (Cl. 167—6.)

1. A disinfecting agent, consisting of an aromatic sulfonic acid, being substituted by at least one side chain containing at least three carbon atoms.

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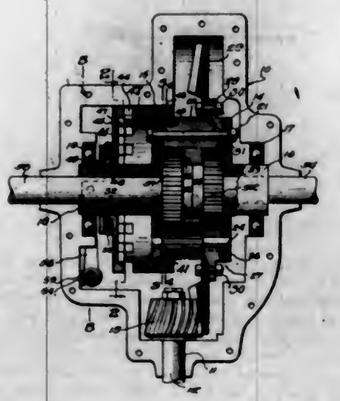
1,691,229. INITIATION DEVICE. ULYSSES S. DE MOULIN, Greenville, Ill. Filed July 23, 1926. Serial No. 124,517. 2 Claims. (Cl. 272—27.)



1. An initiation device including a supporting structure, a container thereon, and means below and concealed by said structure and container for shattering the container and distributing its contents over the supporting structure and adjacent thereto, said means including a block having an expansion chamber, there being an angular explosion chamber opening into the expansion chamber for receiving a cartridge, a trigger, and remote controlled means for releasing the trigger to explode the cartridge.

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1,691,230. DIFFERENTIAL GEARING. ROBERT L. DENISON, New York, N. Y. Filed July 6, 1926. Serial No. 120,818. 8 Claims. (Cl. 74—100.)



1. Differential gearing comprising a main driven gear, pinions carried thereby, a pair of gears driven by said pinions, a shaft connected to each gear of said pair, a locking member rotated by said driven gear, and a coacting locking member driven by said pinions, said locking members being coaxial and adapted to be brought into peripheral engagement with each other by movement of said first named locking member.

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1,691,231. PLUG. OSCAR C. DUDLEY, Canton, N. C. Filed Oct. 14, 1924. Serial No. 743,603. 1 Claim. (Cl. 173—360.)

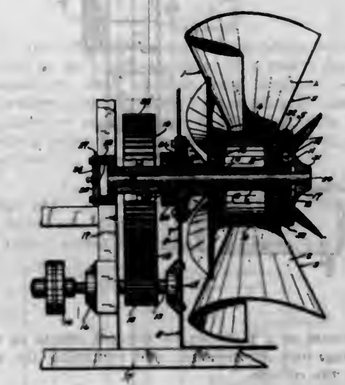


A plug of the class described including oppositely disposed duplicate handles having flat faces in sliding engagement, said handles cooperating constantly to form a knob, an extension at one end of each handle, said extensions being substantial duplicates and each extension having a flat surface and a rounded threaded surface, the flat surfaces of the extensions being coextensive and occupying planes at right angles to the flat faces of the handles, there being a pivotal connection between the handles close to their extensions, said connection constituting means for holding the handles from spreading apart along lines extending through the flat faces of the handles, resilient means interposed between the extensions for holding them normally spaced apart, and laterally extending ears integral with the respective handles, each ear being extended in a direction opposite to that of the ear on the other handle and said ears, when pressed toward each other, constituting means for shifting the handles about their pivotal connection to move the extensions toward each other.



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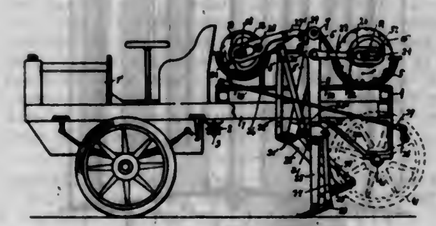
1,691,232. MOUNTING AND DRIVING MEANS FOR SNOWPLOW CUTTING WHEELS. ROGER D. EDWARDS, Albert Lea, Minn. Filed Apr. 17, 1926. Serial No. 102,086. 8 Claims. (Cl. 37—43.)



1. In a snow plow, the combination with a fixed tubular spindle, and a driven shaft extending through said spindle, said shaft being unsupported within the spindle and out of peripheral contact therewith, of a full floating cutting wheel journaled on said spindle, and a shearing pin connecting the cutting wheel to said shaft.

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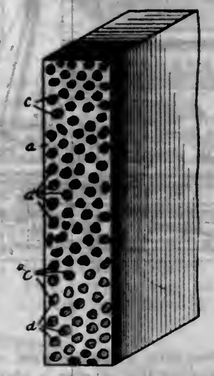
1,691,233. VEHICLE PROPELLED BY STEPPERS. ADOLF EHRLICH, Budapest, Hungary. Filed Apr. 8, 1926. Serial No. 100,725. 5 Claims. (Cl. 180—8.)



1. In a drive means for a motor vehicle, a motor, a casing, drive shafts at the front and rear ends of the casing, means for driving said shafts from the motor, cams on said shafts, a nondriven shaft intermediate said first shafts, jointed legs hingedly mounted on said second shaft, a bell crank on the upper part of each leg, means operatively connecting one arm of the bell crank with the lower part of the leg, means operatively connecting the other arm of the bell crank with said front cam, and means operatively connecting the said rear cam with the upper part of said leg.



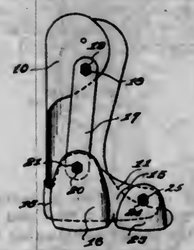
1,691,234. EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill. Original application filed May 10, 1922, Serial No. 559,908. Divided and this application filed Oct. 19, 1925. Serial No. 63,357. 9 Claims. (Cl. 94—18.)



1. A preformed compressible and elastic construction unit consisting of a mass of ductile bituminous material and resilient elements distributed throughout said mass providing mass portions in which the resilient elements are freely contractible and expansible within said ductile material.

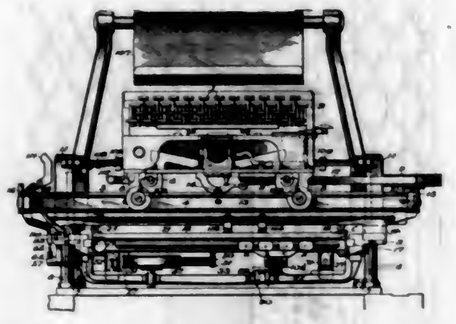
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1,691,235. BRACE FOR CLUB FEET. OTTILLIE L. FISCHER, Bancroft, Nebr. Filed June 1, 1927. Serial No. 195,762. 3 Claims. (Cl. 128—80.)



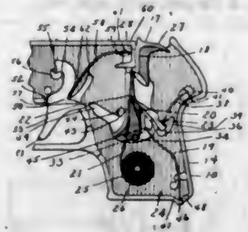
1. A brace for treating club feet formed of sheet metal shaped to provide a leg embracing portion and a foot embracing portion including a sole, the sole being formed by two separate parts connected to one side of the foot embracing portion and extending upward against the other side of the foot embracing portion and connected thereto, and a resilient flexible element connected to the last named part and extending upward and rearward and connected at its upper end to the leg embracing portion and adjustable to increase or decrease the tension.

1,691,236. FLAT-PLATEN TYPEWRITER. HARRY A. FOOTHORAP, Harrisburg, Pa., assignor to Elliott-Fisher Company, a Corporation of Delaware. Filed May 3, 1924. Serial No. 710,804. 42 Claims. (Cl. 197—2.)



1. The combination with a main frame, of a platen frame movable therein for line spacing, a platen mounted in the platen frame and movable to engage or release the work, line spacing mechanism for the platen frame, and automatic means for moving the platen through movement of the platen frame.

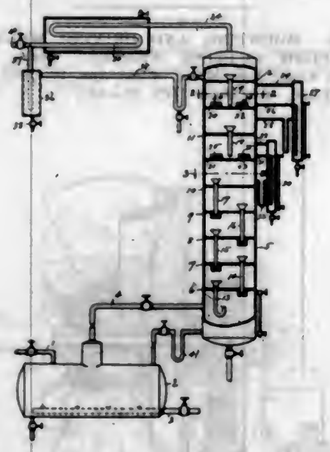
1,691,237. TOY-PISTOL CONSTRUCTION. RUSSELL A. FRISBIE, Middletown, Conn., assignor to The J. & E. Stevens Company, Cromwell, Conn., a Corporation. Filed Dec. 19, 1927. Serial No. 241,017. 5 Claims. (Cl. 42—57.)



1. In toy pistol construction, a casing composed of mating parts held together by a rivet and having an opening on the side of the handle portion that is provided with a cover, a hammer member operatively supported in said casing and provided with a main spring, mechanism for cooperating with said hammer member for effecting the firing, said casing having a seat for one end of said spring, and said casing being provided with an opening adjacent said seat for admitting said spring.

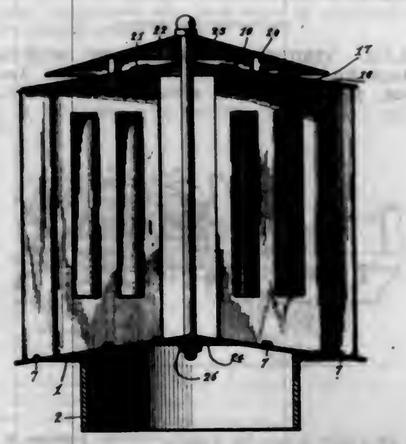
1,691,238. PROCESS OF FRACTIONATING. IRA B. FUNK, Alhambra, Calif., assignor to Union Oil Company of California, a Corporation of California. Filed Oct. 30, 1926. Serial No. 145,231. 13 Claims. (Cl. 196—100.)

3. A process of rectification which comprises distilling liquid hydrocarbons with steam to obtain vapors therefrom, passing the mixture through a rectifying column wherein certain fractions are progressively condensed together with the steam, then removing said fractions and



condensed steam at a plurality of selected points as condensed during such progression, and returning the said fractions to the column.

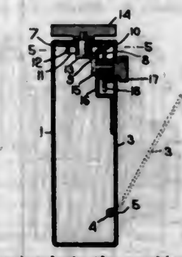
1,691,239. VENTILATOR. JOSEPH CLEMENT GIOUÈRE, Montreal, Quebec, Canada. Filed Aug. 18, 1927, Serial No. 213,917, and in Canada Jan. 5, 1927. 6 Claims. (Cl. 98—78.)



1. A ventilator comprising a base, a plurality of hollow air columns mounted vertically thereon in spaced relation, the walls of said columns being formed with vents communicating with the spaces between the columns, a cover plate closing the upper ends of said columns, said cover plate having ports formed therein and disposed between the columns.

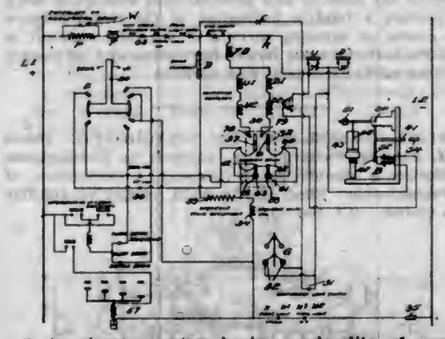


1,691,240. COMBINATION LOCK. ABRAHAM GOLDER, Everett, Mass. Filed Apr. 20, 1928. Serial No. 271,505. 4 Claims. (Cl. 70—53.)



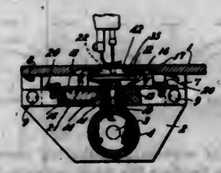
1. In a combination lock, the combination with two elements to be locked together, of a rotary locking member carried by each element, said locking members being rotatable about axes at right angles to each other, and a finger on each element co-operating with the rotatable locking member on the other element to lock said members together.

1,691,241. ELECTRICAL CONTROL SYSTEM. HARRY BENJAMIN GOLDMAN, Pittsburgh, Pa. Filed Apr. 4, 1925. Serial No. 20,787. 7 Claims. (Cl. 187—29.)



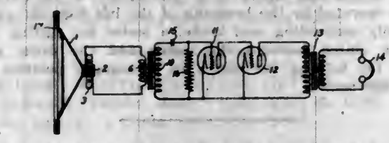
5. An elevator system having a plurality of control circuits, an elevator, driving apparatus for said elevator, a controller for governing the movement of said elevator in either of two directions, a door contact or multiple number of door contacts in one of said control circuits, a sequence relay common to all of said control circuits, a coil arranged to magnetically actuate said relay, a resistance, means for controlling the opening and closing of said circuits over variably adjustable time periods, and circuit connections whereby said coil is shunted by said resistance when said controller is actuated prior to the closing of said door contact and said coil placed in series with said resistance when said door contact is closed prior to the actuation of said controller.

1,691,242. BOBBIN CASE. CHARLES H. GREENWOOD, Canton, Ohio. Filed Mar. 5, 1924. Serial No. 697,081. 6 Claims. (Cl. 112—184.)



1. In a sewing machine, a rotary loop taker, a bobbin case peripherally supported thereon and provided with notches and a sliding plate provided with fingers arranged to alternately engage the notches to positively prevent rotation of the bobbin case without retarding the loop.

1,691,243. ELECTRODYNAMIC SIGNAL DEVICE. CLINTON R. HANNA, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 25, 1925. Serial No. 52,268. 1 Claim. (Cl. 179—1.)



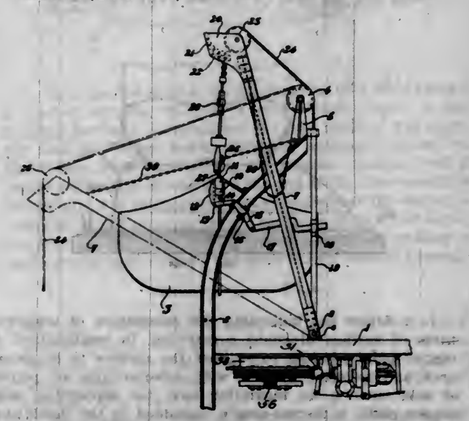
In a sound-translating device, a microphone including a coil, means for moving said coil in response to sound, means for producing a magnetic field across said coil, a circuit into which said microphone delivers, means for minimizing the inductive effect of said microphone in said circuit and a transformer having a primary in said circuit, the inductance of which is approximately equal to the inductive effect of said coil.

1,691,244. HAIR-CURLING IRON. EDWARD K. HUSSEY, Oakland, Calif. Filed Apr. 26, 1926. Serial No. 104,687. 1 Claim. (Cl. 219—24.)



A hair curling or marcelling device having in combination a hair-shaping structure; a liquid-tight heating container mounted therein; an insulated electric heating conductor provided within the container; said conductor being provided with an electrical connection and adapted to be supplied with electrical energy; a handle provided on said hair-shaping structure; means in the handle for containing liquid; means for forcing the liquid against the heating container to form vapor; and a plurality of holes provided into and around the hair-shaping structure for permitting vapor to pass out of and completely around the hair-shaping structure while the hair is being shaped.

1,691,245. DAVIT FOR LIFEBOATS. ARTHUR W. LYDA, North Canton, Ohio, assignor to The American Safety Navigation Company, Canton, Ohio, a Corporation of Ohio. Filed Oct. 12, 1926. Serial No. 141,068. 6 Claims. (Cl. 9—22.)

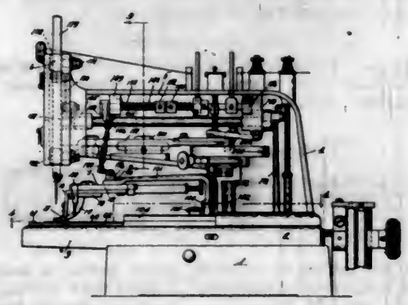


1. Davits for a ship's life boat including supports mounted upon the ship's deck, a boom member pivotally mounted upon the deck adjacent to each support, a pulley

upon the upper end of each support, a pulley upon the upper end of each boom member, a drum adjacent to the davits, a cable located over the pulley of each boom member and support and having one end connected to the drum, a life boat suspended from the free ends of the cables, a brake mechanism operatively connected to the drum, means operated by the lowering of the life boat for automatically controlling said brake, a motor for raising the boat, a clutch between the motor and the drum and means for holding the clutch in disengaged position to lower the boat.

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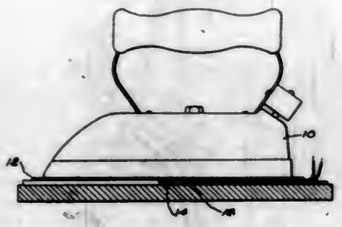
1,691,246. BUTTON-SEWING MACHINE. ROBERT L. LYONS, Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1923. Serial No. 633,625. 22 Claims. (Cl. 112—110.)



1. In a machine of the class described, a button carrier, a work holder, sewing instrumentalities for sewing a button carried by said carrier to work held by said holder, and means for relatively moving said carrier, holder and instrumentalities by successive increments during the sewing operation whereby a plurality of stitches passed through each of the holes in said button engage the work at points spread along a line therein.

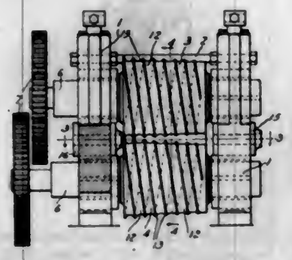
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1,691,247. MEANS FOR MEASURING TEMPERATURE. HOWARD D. MATTHEWS, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 24, 1926. Serial No. 137,482. 2 Claims. (Cl. 73—32.)



1. A device for indicating the summation of temperatures of surface divisions comprising, in combination, a copper plate adapted to support the surface to be measured and to make contact with substantially all points of said surface, an insulating base for supporting said copper plate, a thermo-couple embedded in the insulating base and welded to said copper plate, and a voltmeter electrically connected to said thermo-couple.

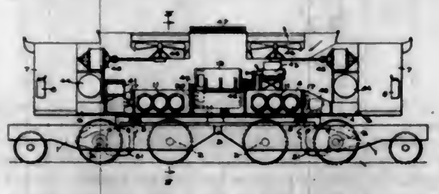
1,691,248. BALL-FORMING MACHINE. ALEXANDER C. MUNRO, Britannia Beach, British Columbia, Canada. Filed Apr. 19, 1926. Serial No. 102,917. 6 Claims. (Cl. 80—23.)



1. A ball forming machine comprising two rotary forming rolls provided with similarly pitched multiple-threaded helical grooves whose cross-section corresponds to the shape of the balls to be formed, said rolls being so constructed and mounted that corresponding portions of the grooves in the two rolls are presented opposite one another and that the space between the opposing peripheral surface portions of said rolls converges toward one end of the machine the pitch of said grooves being sufficiently steep to produce a relative inclination of the ridges between the groove on opposing portions of the rolls sufficient to hold the material being formed in position without the use of other guiding means at such portions.

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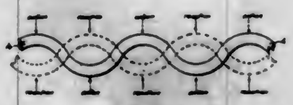
1,691,249. DIESEL-ELECTRIC LOCOMOTIVE. DELOS M. PALMER, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 30, 1926. Serial No. 105,750. 6 Claims. (Cl. 105—35.)



1. In an oil-electric locomotive, the combination with a truck and cab structure, of two multicylinder horizontal-opposed oil engines having their crankshafts disposed longitudinally of the cab, and an electric generator mounted between said engines and operatively connected thereto.

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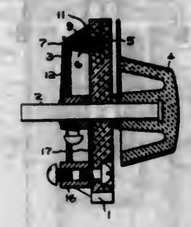
1,691,250. METHOD AND APPARATUS FOR OPENING SHEET PACKS. CLIFFORD F. PEEK, Chesterton, Ind., assignor of one-half to Charles A. Ball, Wheeler, Ind. Filed June 16, 1925. Serial No. 37,421. 9 Claims. (Cl. 29—19.)



1. The process of separating adhering sheets of a metal pack consisting in feeding the pack between a pair of corrugating rolls to form transverse corrugations in the pack of small radius, in reversing the corrugations at substantially the same radius and in subsequently removing the corrugations from the pack.



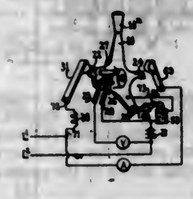
1,691,251. GRID LEAK. THOMAS C. RATHBONE, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 2, 1925. Serial No. 20,188. 6 Claims. (Cl. 201—48.)



6. As an article of manufacture, a resistance device comprising a base-member having a groove therein, a coil of wire having elongated whorls partially stepped in said groove, the several whorls being severed adjacent said base member, a moldable material having high resistivity encompassing a portion of each of said whorls and maintaining them separated, and a contact device so disposed as to be movable over the exposed portion of said whorls.

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1,691,252. ELECTRIC SWITCH. GUSTAVE B. REISBACH, San Diego, Calif., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 9, 1925. Serial No. 67,752. 7 Claims. (Cl. 171—314.)



1. In battery charging equipment, the combination with a battery and variable circuit connections therefor, of a rotatable contact member biased to one extreme position to interrupt said connections and movable to an opposite extreme position to commutate the same, and means for automatically holding said member in an intermediate position wherein the charging circuit of said battery is completed.

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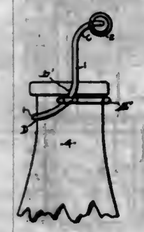
1,691,253. OVERSHOE AND METHOD OF MAKING SAME. FRED THOMAS ROBERTS, Yonkers, and ALBERT J. ELDON, Mount Vernon, N. Y., assignors to Paramount Rubber Consolidated, Inc., Tuckahoe, N. Y., a Corporation of Delaware. Filed Mar. 28, 1925. Serial No. 18,933. 19 Claims. (Cl. 154—42.)



19. The method of making footwear comprising cutting with an outline die through a pair of rubber sheets comprising two outer sheets and an intermediate doubled sheet with its folded edge within the circuit of the die and with a separator between its leaves, said die having a portion which has a shallow bevel which forms a cut seam between the side sheets at the front and another beveled portion which forms a cut seam between the sides and the sole, and another portion which is sufficiently sharp to cut through the side sheets without joining them.

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1,691,254. BOTTLE-CARRYING DEVICE. JOSEPH E. ROBINSON, Topeka, Kans. Filed Mar. 15, 1926. Serial No. 94,835. 1 Claim. (Cl. 215—100.)



In a bottle carrying device, in combination with the neck of a bottle, a bail of the kind described having a centrally disposed curve and transversely positioned curves to the first said curve for each of the bail members, and a reverse curve to the second said curve to engage with a handle member, whereby the handle is eccentrically positioned to the vertical axis of the neck of a bottle, a yoke member having both ends looped to form eyes to slidably engage on the bail so that by raising the bottle the centrally disposed curve of the bail and the yoke will grip on the neck thereof by reason of the eccentrically positioned handle to the axis of said bottle.

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1,691,255. CONDUIT FITTING. HOWARD A. SELAH, Erie, Pa., assignor to Erie Malleable Iron Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 30, 1925. Serial No. 72,181. 3 Claims. (Cl. 247—25.)



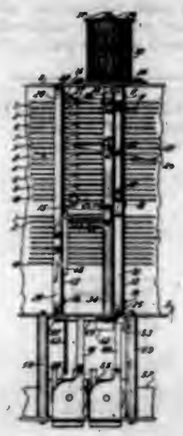
1. In a conduit fitting, the combination of a body having a conduit opening therein; a contractible sleeve in the opening having a longitudinal slit, the walls of the opening and the sleeve having wedging surfaces; a nut on the sleeve, said nut having an internal flange; and a gasket within the nut between the end of the sleeve and the flange, said nut forcing an axial movement of the sleeve to compress it and pressure on the gasket to form a seal on an inserted conduit, said fitting including means forming a seal between said nut and the walls of the conduit opening.

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1,691,256. SWITCHING MECHANISM. HANS SENGEBUSCH, Chicago, Ill., assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 5, 1925, Serial No. 48,247. Renewed Nov. 28, 1927. 30 Claims. (Cl. 179—27.5.)

1. An automatic switching mechanism having a vertically and radially movable shaft, a pair of stationary wipers provided with sectional extensions, terminals ar-

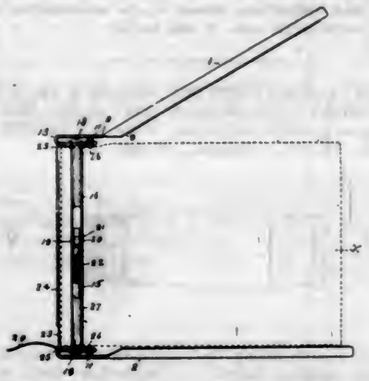
ranged in a vertical plane accessible to said wipers over said extensions but normally out of engagement therewith, means for moving said shaft vertically to select certain of



said terminals, and means for then moving said shaft radially to cause certain ones of said extensions to engage the selected terminals.

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1,691,257. BINDER FOR LOOSE LEAVES. WILLIAM H. SMITH, San Francisco, Calif. Filed Aug. 2, 1926. Serial No. 126,415. 7 Claims. (Cl. 129—13.)

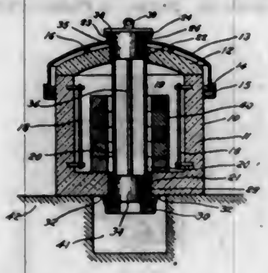


1. A transfer binder comprising opposed covers having channels hinged to the edges thereof; binding means extending betwen said channels and adapted to engage the inner plates thereof and terminating within said channels; backing sheets attached to each of said covers adapted to be overlapped and attached to each other when the binder is filled; and a strip of tape having an end secured to one of said covers protruding beyond said binder.

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1,691,258. FURNACE. KARL TAMELE, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1926, Serial No. 152,153, and in Germany Dec. 3, 1925. 2 Claims. (Cl. 266—5.)

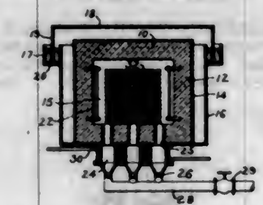
1. In a furnace, in combination, a casing provided with a material-receiving chamber, electric heating means in said chamber, a metallic pipe mounted in said casing and extending vertically through the center of said chamber, a pair of connected removable stoppers fitting in said pipe



for heat-insulating the interior thereof from the outside atmosphere, whereby the pipe will act as a manually controlled cooling means.

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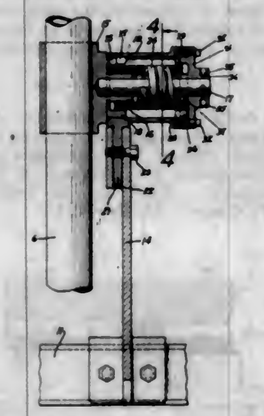
1,691,259. ANNEALING FURNACE. KARL TAMELE, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 2, 1926, Serial No. 152,155, and in Germany Dec. 5, 1925. 3 Claims. (Cl. 266—5.)



1. In a bright-annealing furnace, in combination, a heat-insulated casing having a chamber therein, cooling means below the chamber for condensing the steam in the furnace atmosphere, and means for exposing the furnace atmosphere to the cooling action of the cooling means.

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1,691,260. FOLDING BED. JOHN M. THOMSON, Davenport, Iowa. Filed Nov. 9, 1925. Serial No. 67,851. 9 Claims. (Cl. 5—164.)

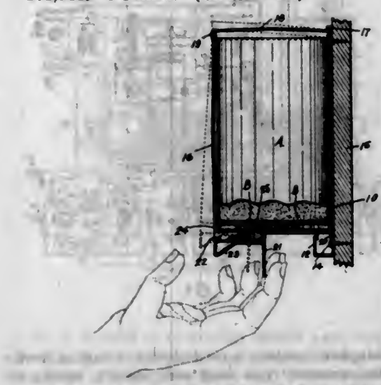


2. A base, sockets axially aligned crosswise of the base at opposite sides thereof, a frame having side rails each of which has a projection rotatable upon one end of a corresponding socket, a cap rotatably adjustable upon the opposite end of each socket, and a coil spring within each socket having its terminals respectively engaged with projection and cap, to submit the spring to torsion when the frame is lowered.

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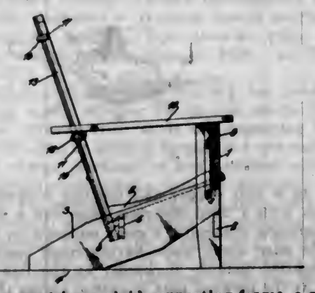
1,691,261. DISPENSING RECEPTACLE FOR POWDERED AND GRANULAR MATERIALS. GEORGE E. WILSON, Omaha, Nebr. Filed Apr. 19, 1926. Serial No. 102,941. 4 Claims. (Cl. 221—65.)



4. In a device of the class described, a receptacle having a discharge opening in the bottom thereof, means disposed about said discharge opening and forming a discharge passage extending horizontally therefrom, the length and depth of said passage being proportioned to normally inhibit gravitational flow of material through the same, and means supporting said receptacle for oscillation between fixed limits in a direction longitudinal of said passage, whereby to effect intermittent movement of material through said passage to the open end thereof.

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1,691,262. CHAIR. ARTHUR WURDACK, Normandy, Mo. Filed June 1, 1926. Serial No. 112,785. 2 Claims. (Cl. 155—191.)

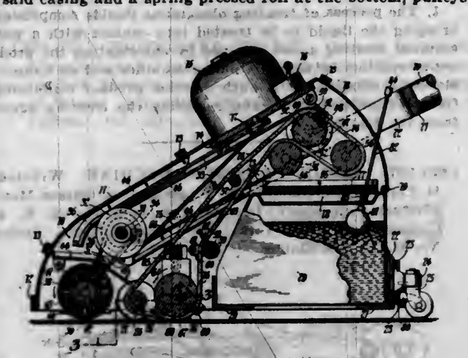


1. A chair comprising a rigid supporting frame, a pair of arm members having their front ends attached to said frame, a support attached to the under side of the rear of each of said arm members, a cross member connecting said supports, a series of back forming slats having their lower ends attached to the rear side of said frame and having their intermediate portions attached to the front side of said cross member, and elements supporting said supports and having their upper ends attached to said supports and their lower ends attached to adjacent ones of said back forming slats.

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1,691,263. FLOOR-WASHING MACHINE. ROMULO ALVARADO, Jamaica, N. Y. Filed Nov. 30, 1925. Serial No. 72,149. 1 Claim. (Cl. 15—4.)

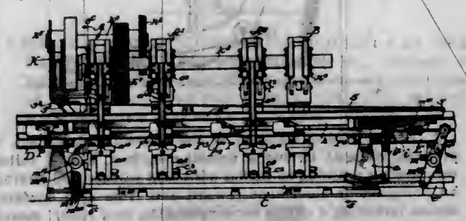
In a floor scrubber, the combination with a casing having a motor on its upper surface, of a tank in said casing having a wringing means thereover, a counter shaft within the forward end of said casing belt driven by said motor, a rotary brush at the front of the casing driven by a belt from said counter shaft, a plurality of rolls journalled in the casing sides, including a drive roll near the top of said casing and a spring pressed roll at the bottom, pulleys



on the ends of the drive roll belt driven by said counter shaft, an endless mop trained over said rolls and held in contact with the floor by the spring pressed roll, a handle pivoted on the sides of said casing, and means combined with said handle for retracting the spring pressed roll.

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1,691,264. WORK-FEEDING MECHANISM FOR SHEARING MACHINES. ALBERT J. BATES, Jr., Chicago, Ill., assignor to Bates Expanded Steel Truss Co., East Chicago, Ind., a Corporation of Delaware. Filed Oct. 11, 1926. Serial No. 140,767. 23 Claims. (Cl. 164—6.5.)



1. In a machine of the character described, the combination of shearing mechanisms for cutting metal beams or bars on different lines, each comprising a reciprocable shearing element, mechanism for operating said elements, and mechanism for intermittently feeding the work comprising a feed carriage, a toothed bar shorter than the work connected to the carriage, and a series of progressively acting dogs for the bar.

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1,691,265. NAILING INSERT. GEORGE W. BROOKS, Topeka, Kans. Filed Mar. 27, 1925. Serial No. 18,822. 3 Claims. (Cl. 72—105.)



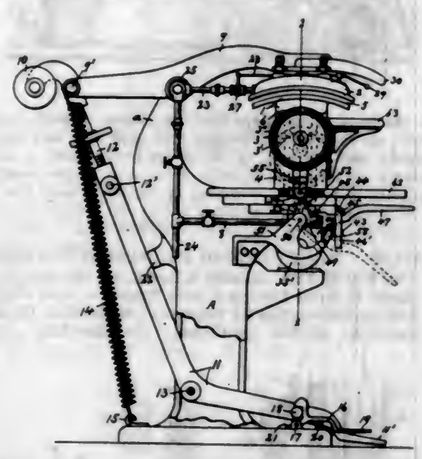
2. A nail guide comprising a sheet having staggered longitudinal channels, the walls of the channels providing adjacent guides for nails, and a holder therefor consisting of parallel bodies provided with slots disposed transversely to said channels of the sheet.

1,691,266. PROCESS OF TREATING LIQUIDS. LYLE CALDWELL, Los Angeles, Calif., assignor to The Celite Company, Los Angeles, Calif., a Corporation of Delaware. Filed Jan. 27, 1926. Serial No. 84,247. 9 Claims. (Cl. 196—147.)

1. The process of treating oleaginous liquids comprising bringing the liquid to be treated into contact with a pulverulent treating agent obtained by chlorinating the product of reaction between diatomaceous silica and an hydroxide of an alkaline earth, such reaction product containing free alkaline hydroxide, and removing the treating agent from the liquid.

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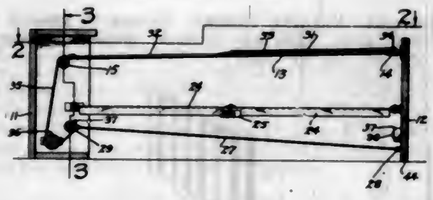
1,691,267. GARMENT-PRESSING MACHINE. WILLIAM H. CLISSON, Binghamton, N. Y., assignor to Clisson Manufacturing Company, Incorporated, Syracuse, N. Y., a Corporation of New York. Filed Mar. 6, 1926. Serial No. 92,721. 10 Claims. (Cl. 68—9.)



1. In a pressing machine of the character described, a pressing element having a pressing surface, a feed roller rotatable in pressing co-action with said surface and having an independent movement toward and from said surface, means including a clutch for rotating the feed roller, means including a hand lever for shifting the clutch, and means actuated by the hand lever for moving the feed roller into pressing co-action with the pressing element.

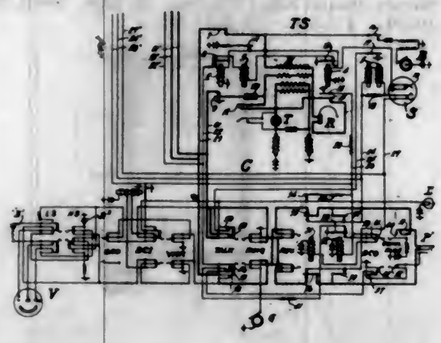
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1,691,268. FOLDING BED. FREDERICK K. CONRAD, St. Paul, Minn. Filed Sept. 11, 1926. Serial No. 134,892. 7 Claims. (Cl. 5—119.)



1. A portable, foldable bed, including a spring fabric having one end secured to a movable support, a roller for supporting the other end of the fabric, pads for covering said fabric, one of the pads being secured to the fabric and adapted to be wound upon said roller with said fabric when in inoperative position, and independent storage means for receiving the other of said pads.

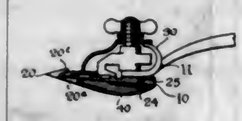
1,691,269. WIRE CHIEFS' TEST CIRCUITS FOR TELEPHONE SYSTEMS. THOMAS F. CROCKER, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 9, 1925. Serial No. 74,231. 40 Claims. (Cl. 179—175.)



1. In a telephone system, a cord circuit, a calling device normally disconnected from said cord circuit, means responsive to each movement of said calling device from its normal position for bridging said calling device across the talking conductors of said cord circuit while said calling device is in an off-normal position, and separate means for maintaining said calling device bridged across said talking conductors an interval after it returns to normal.

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1,691,270. HAIR CLIPPER. JOHN H. DONNELLON, Evanston, Wyo.; Mildred A. Donnellon administratrix of said John H. Donnellon, deceased. Filed Dec. 31, 1925. Serial No. 78,544. 3 Claims. (Cl. 30—1.)



1. In a hair clipper and the like comprising in combination with a fixed shearing blade and a vibrating blade co-operating therewith, a comb mounted on the under side of the fixed shear blade having comb teeth projecting a substantial distance forwardly of the line of cut thickened at the forward part to extend across the plane of the cut, and above that plane extending back across the line of cut to form guard terminals overhanging the path of the points of the teeth of the vibrating cutter, the comb being adjustable in the direction of the length of the comb teeth wih respect to the line of cut for varying the approximation of the points of the teeth of the vibrating cutter to the guard terminals in the under cut formed by said terminals.

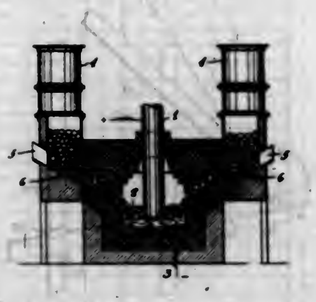
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1,691,271. RESINOUS MATERIAL AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed Nov. 28, 1924. Serial No. 752,811. 9 Claims. (Cl. 106—22.)

1. The process which comprises reacting together a crude xylenol and a magnesium formaldehyde jelly, agitating at room temperature until the formaldehyde has combined, and separating out the water.



1,691,272. METHOD OF PRODUCING METALS AND METAL ALLOYS LOW IN CARBON. GUSTAV HENNING FLODIN, Roslags-Nasby, Sweden. Filed Mar. 18, 1924, Serial No. 700,162, and in Sweden Apr. 20, 1923. 12 Claims. (Cl. 75—22.5.)



1. A method of producing metals and metal alloys low in carbon, consisting in preparing a mixture of finely divided metal ore and finely divided carbonaceous material of such a quantity that the entire quantity of carbon is practically consumed on reduction, transforming said mixture into briquettes so as to bring the substances that are to chemically act upon each other into intimate contact with one another and to prevent the formation of local excesses of the one or other substance, reducing and melting said briquettes in an electric electrode furnace in which heat is developed by electric resistance in the slag bath, with the charge swimming on the slag.

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1,691,273. METHOD OF PRODUCING IRON AND ALLOYS OF IRON HAVING A VERY LOW PERCENTAGE OF CARBON. HENNING GUSTAV FLODIN, Roslags-Nasby, and EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden, assignors to Hampus Gustaf Emrik Cornelius, Stockholm, Sweden. Filed June 22, 1925, Serial No. 38,940, and in Sweden May 11, 1925. 16 Claims. (Cl. 75—22.5.)

11. An endothermic reduction process for producing iron and other carbon binding metals and alloys thereof low in carbon directly from oxide ore consisting in reducing and melting in an electric furnace in a non-oxidizing atmosphere a charge composed of finely divided oxide ore and finely divided carbonaceous reducing material, mixed and solidified, the quantity of reducing agent being less than the theoretical amount required for reduction of the ore, and decreasing the electric conductivity of the slag formed and liberating metal of the metal oxides in the slag by adding a thermic reducing agent to the slag bath.

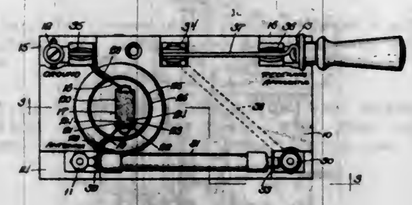
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1,691,274. METHOD OF PRODUCING DENSE IRON AND IRON ALLOYS DIRECTLY OUT OF OXIDE ORES. HENNING GUSTAV FLODIN, Roslags-Nasby, and EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden, assignors to Hampus Gustaf Emrik Cornelius, Stockholm, Sweden. Filed June 22, 1925, Serial No. 38,941, and in Sweden May 26, 1925. 11 Claims. (Cl. 75—225.)

1. A direct electric reduction process for producing dense iron or iron alloys from oxide iron ore containing a metal capable of deoxidising and degasifying iron, with a charge composed of such ore in a finely divided state and carbonaceous material, mixed and solidified, feeding said charge successively into an electric furnace and smelting same whilst floating on top of a slag bath in said furnace, separating iron and slag, forming on the iron an oxidising slag, removing said slag containing the main part of the said metal, defining the reduced iron or iron alloy, slagging off, reducing the slag from the oxidizing period in the presence of the refined iron or iron alloy in an electric furnace and tapping the iron alloy with said metal.

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1,691,275. PROTECTIVE DEVICE. GEORGE R. FOLDS, Evanston, and JOHN S. BAKER, Chicago, Ill., assignors to Cook Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 16, 1923. Serial No. 625,474. 9 Claims. (Cl. 250—33.)



1. In a radio circuit, an antenna terminal, a ground terminal, a receiving apparatus terminal, means for constantly maintaining a path for high voltage currents between said antenna and said ground terminals, means connected to said antenna terminal for protection of the receiving apparatus from excessive currents, and a switch for connecting said last named means in series with the receiving apparatus terminal or for disconnecting the receiving apparatus terminal and connecting said last named means to said ground terminal.

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1,691,276. COMBINED INTERIOR COLLAR CAN AND PAIL. LOUIS J. FREUNDT, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 9, 1924. Serial No. 685,108. 8 Claims. (Cl. 220—54.)



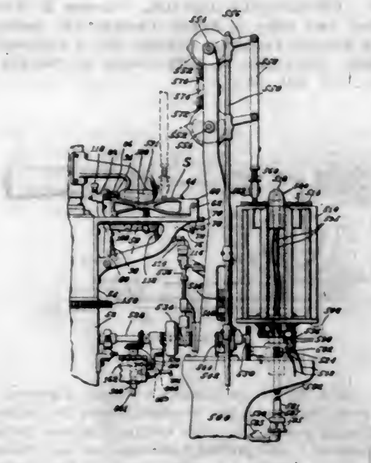
1. A container, comprising a body provided with a side tearing strip, and an internal collar secured to the body and extending across said tearing strip, said collar being provided with oposite perforations adapted to receive the ends of a bail, said perforations being covered by the body until said strip is removed.

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1,691,277. ASSEMBLING MACHINE. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 15, 1921. Serial No. 477,709. 398 Claims. (Cl. 12—17.)

38. In a composite-sole-assembling machine, a support, means for causing the travel of the support to different positions, a sole-container at one position, mechanism at said position for transferring a sole from the container to

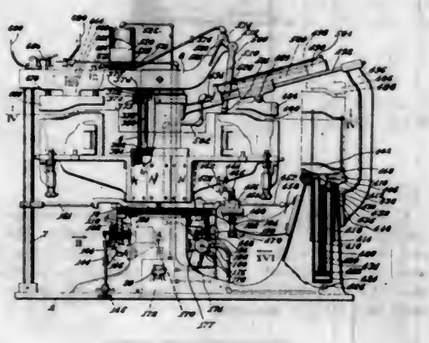
the support, a cement-receptacle at another position, mechanism for delivering cement from the receptacle to the sole upon the support, a container at a succeeding position



for auxiliary sole-portions, and mechanism at this position for transferring an auxiliary portion from its container to the cemented sole.

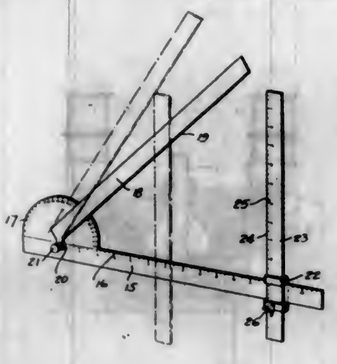
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1,691,278. MACHINE FOR USE IN THE MANUFACTURE OF SHOES. FREDERICK M. FURBER, Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 2, 1919, Serial No. 314,947. Renewed Feb. 4, 1928. 72 Claims. (Cl. 12—17.)



1. A shoe bottoming machine having, in combination, a shoe support, a plurality of mechanisms for operating successively on a shoe carried by said support, and automatic mechanism for bringing said support and said operating mechanisms into predetermined relation and for causing said operating mechanisms to travel successively around the forepart of the shoe.

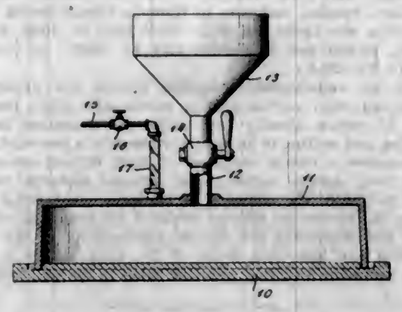
1,691,279. MEASURING INSTRUMENT. ELIZABETH H. GATES, Los Angeles, Calif. Filed July 6, 1925. Serial No. 41,845. 1 Claim. (Cl. 33—97.)



A geometrical instrument comprising a horizontal bar provided with a linear scale, a protractor at one end of the bar, the center of said protractor being located at the end of the scale, an arm pivoted to said bar at the center of the protractor and adapted to move over the face of said protractor, said arm having a free outer end, a yoke mounted on said bar, supporting means on said yoke located on the same side of said bar as said arm, a vertical bar adjustably mounted in said supporting means in the same plane with said arm, whereby said vertical bar may be adjusted to support the free end of said arm.

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1,691,280. METHOD OF MAKING POROUS MATERIAL. BERNARD GRANVILLE, New York, N. Y. Filed July 26, 1926. Serial No. 124,938. 9 Claims. (Cl. 25—155.)

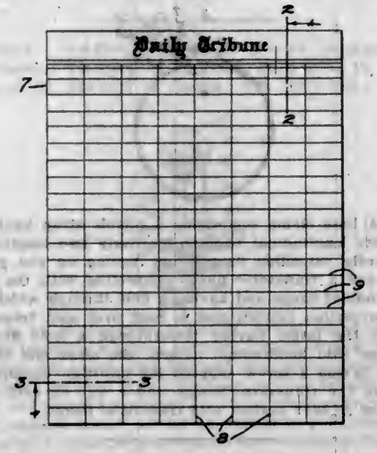


1. The process of making porous solid material, which comprises subjecting wet gas-containing material which has the property of setting and hardening to a sub-atmospheric pressure and maintaining a sub-atmospheric pressure on the expanded material until it has set.

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1,691,281. TRANSPARENT MAKE-UP PLATE FOR USE IN PRODUCING PAGE STEREOTYPE. ROY V. GRAVES, Minneapolis, Minn., assignor of one-half to Lyman H. Hoyt, Fridley, Minn. Filed June 30, 1926, Serial No. 119,762. Renewed Feb. 9, 1928. 3 Claims. (Cl. 95—85.)

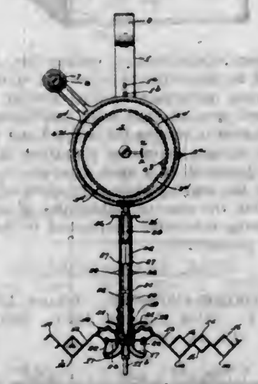
1. A transparent "make-up" page plate, having parallel column demarking grooves and parallel paragraph demarking grooves at right angles to said column demarking grooves, for assembling thereon and handling together all




the master sheets of composition required for a printed page, in producing a page stereotype of said composition, substantially as described.

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1,691,282. CREAM WHIPPER. AUGUST C. GUHL, Chicago, Ill. Filed June 11, 1926. Serial No. 115,275. 18 Claims. (Cl. 259—144.)

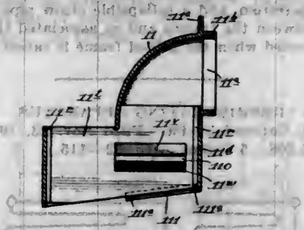


1. In a cream whipper or the like, a beater mounted for rotation about an axis and for reciprocation along said axis, a toothed pinion associated with said beater and a driving wheel having perforations adapted to mesh with the pinion, said perforations being disposed in non-circular arrangement for causing the reciprocation of the pinion and the beater.

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1,691,283. VENTILATOR. HAROLD N. HANSEN, Highwood, Ill., assignor to Henry Giessel Company, Chicago, Ill., a Corporation of Illinois. Filed July 10, 1925. Serial No. 42,725. 9 Claims. (Cl. 98—20.)

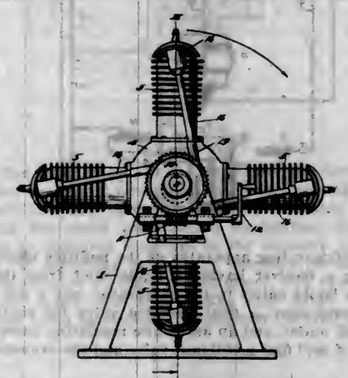
1. A ventilator having an entrance port in one plane, exhaust outlets with an outlet passage extending therebetween, said outlets being in planes angularly disposed with respect to the plane of said entrance port and a passage extending between and connecting said entrance port and said outlet passage, and vertical partitions substan-



tially parallel to the ends of said ventilator located in said first passage and extending the distance between said outlets.

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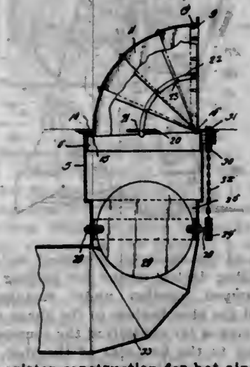
1,691,284. VARIABLE COMPRESSION AND SPEED DEVICE. JASON E. HARRIS, Howard, Kans. Filed Aug. 3, 1925. Serial No. 47,753. 4 Claims. (Cl. 123—48.)



1. In a variable compression and speed device, a crank shaft, a crank case disposed eccentrically of the axis of the shaft and around the crank of the latter, cylinders carried by the crank case, pistons in the cylinders, connecting rods between the pistons and the crank of the shaft, and means for varying the degree of eccentricity between the axis of the crank case and said crank by relative rotary adjustment between the shaft and crank case.

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1,691,285. HEAT REGISTER AND CUT-OFF FOR AIR-HEATING SYSTEMS. HENRY C. HELMS, Indianapolis, Ind., assignor of one-half to Edgar C. Kreglo, Indianapolis, Ind. Filed May 19, 1927. Serial No. 192,625. 6 Claims. (Cl. 98—103.)

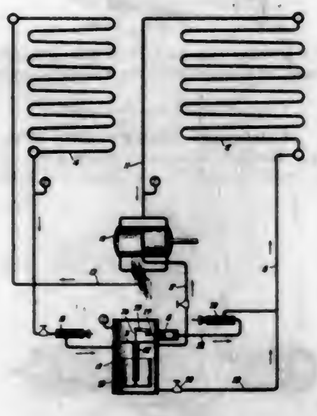


1. In a register construction for hot air heating systems, an open frame for disposition in a floor opening, a grilled

frame pivoted at one edge within the first mentioned frame and adapted for disposition therein or to be swung upwardly therefrom, and a collapsible elbow pipe section arranged between the frames and so associated therewith as to be extended when the grilled frame is raised.

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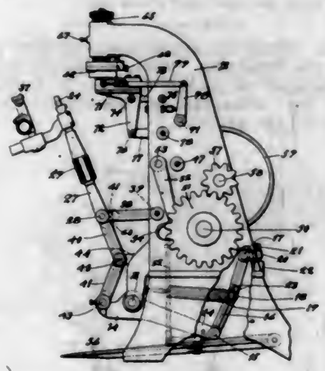
1,691,286. REFRIGERATING APPARATUS. NICOLAI H. HILLER, Carbondale, Pa. Filed Nov. 23, 1927. Serial No. 235,208. 5 Claims. (Cl. 62—115.)



1. A refrigerating apparatus of the multiple effect type, including a receiver having a liquid inlet from the condenser, a liquid outlet to the evaporator, and a gas outlet to the compressor, a float operated valve for controlling said liquid outlet, and an automatic regulating valve intermediate of said first mentioned valve and the evaporator.

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1,691,287. MACHINE FOR OPERATING ON FOOTWEAR. ERIC A. HOLMGREN, East Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 25, 1919. Serial No. 326,178. Renewed Nov. 9, 1926. 56 Claims. (Cl. 12—17.)



1. A machine of the character described having, in combination, a molding device, means for holding a shoe and said device clamped together under sustained molding pressure to mold the shoe bottom to the shape of the molding device, and means for subjecting the counter and upper material adjacent to the heel-seat of the shoe to pressure which increases and diminishes during maintenance of said molding pressure.

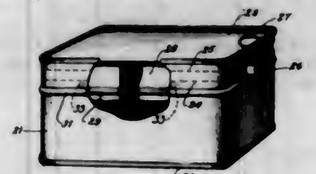
1,691,288. HOSE CLAMP. JOHN H. HOLYFIELD, Kansas City, Kans. Filed Feb. 13, 1928. Serial No. 253,967. 2 Claims. (Cl. 24—19.)



1. A hose clamp comprising a pliable strap having at opposite longitudinal edges respectively two longitudinal outwardly extending flanges, one having an end projection, and a transverse flange connecting with the other longitudinal flange and having a hole through which said end projection extends and is bent over said transverse flange, the latter having therethrough a hole disposed between said longitudinal flanges, the other end of said strap having a screw adapted for insertion through the hole in the transverse flange, and a nut on said screw adapted to bear against said transverse flange.

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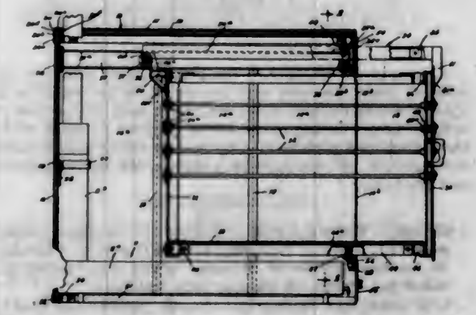
1,691,289. CONTAINER. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 18, 1923. Serial No. 632,843. 1 Claim. (Cl. 220—53.)



A container, comprising a rectangular body adapted to be opened by severance of a tearing strip beneath the top, a separate rectangular collar member having yieldable sides and open at both ends, positioned within said body and adapted to receive the severed end of the body as a temporary closure after the container is opened, said collar being fastened at a spot or spots to said body at points below the tearing strip, the spots of fastening being well within the zone of yieldability of said collar, the said collar being otherwise unattached to the can body in said zone of yieldability.

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1,691,290. DRIER CABINET. JULIUS JUDELSON, New York, N. Y. Filed Feb. 11, 1925. Serial No. 8,333. 9 Claims. (Cl. 34—40.)



1. A drier of the character described comprising a cabinet having side and top walls, a drier frame formed of parts mounted to reciprocate in and out of the cabinet,



and connections for detachably securing said walls to each other and for connecting said frame parts together to form separate rigid structures, said connections being made without the use of tools.

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1,691,291. SWITCH. JOSEPH KAUWE, KAHALEOHU, Honolulu, Territory of Hawaii. Filed Feb. 19, 1927. Serial No. 169,649. 4 Claims. (Cl. 200—157.)



4. In an electric iron, a handle carried normally open switch including a spring actuated button, a plate mounted below the handle and provided with spaced bearings, a rock shaft mounted in said bearings, a collar secured to the shaft and adapted to engage one of the bearings to hold the shaft against rotary movement, means to yieldingly hold the collar in engaged position, an arm extending from the collar to engage the button and hold the switch in closed position and an operating finger for the shaft.

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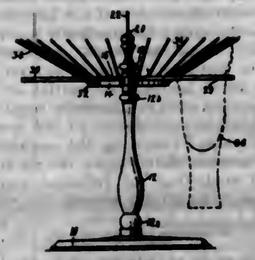
1,691,292. CULTIVATOR-SHOVEL STRUCTURE. CARL HERMAN KYRKLUND, Winthrop, Minn. Filed July 8, 1926. Serial No. 121,243. 4 Claims. (Cl. 97—198.1.)



1. A cultivator having a shovel supporting member, an arm secured at one end of said member and extending downwardly and forwardly therefrom, said arm having a lower terminal portion, offset forwardly from its upper portion, said lower portion being also offset laterally from said upper portion and a shovel secured to said lower portion whereby said shovel is spaced forwardly from the upper portion of said arm and is offset laterally in relation to said supporting member.

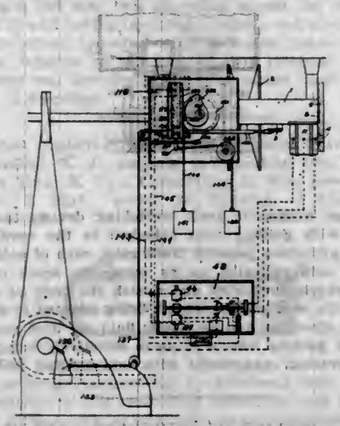
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1,691,293. HOSIERY-DISPLAY RACK. ENOCH LARSON, Eldora, Iowa. Filed May 2, 1927. Serial No. 188,184. 8 Claims. (Cl. 211—163.)



1. In a display rack, an annular disc, a second annular disc above the first disc, means for supporting said discs for rotation, the second disc having a plurality of radial slots extending inwardly from its periphery and a plurality of supporting members projecting from the first disc upwardly and outwardly through said slots.

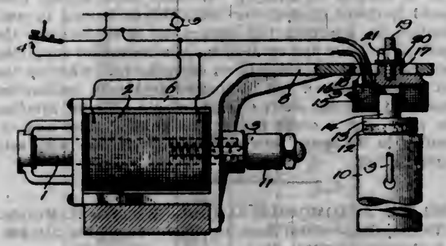
1,691,294. AUTOMATIC SPEED-CONTROLLING DEVICE. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Aug. 7, 1922. Serial No. 580,312. 29 Claims. (Cl. 74—7.)



1. The combination with a variable speed transmission mechanism and a processing machine operated thereby, of an electrically operated motor for changing and controlling the speed transmission mechanism, means controlled by changing condition of the elements being processed for energizing said motor, selective mechanism for determining the rotation of said motor, and automatically operated means for de-energizing said motor when the variable speed mechanism has reached its limit of adjustment.

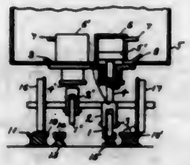
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1,691,295. MUSICAL-SOUND-PRODUCING INSTRUMENT. FREDERICK B. LITTLE, Chicago, Ill., assignor to J. C. Deagan, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 17, 1927. Serial No. 226,745. 1 Claim. (Cl. 84—407.)



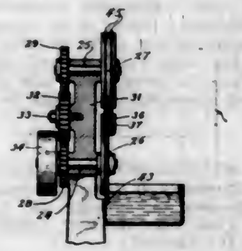
The combination with an elongated sound producing bar; of a hammer mounted upon one side of said bar and operable to strike the bar to set it into vibration; a sound dampener bearing against the upper end of the bar and whose weight is borne by the bar; a solenoid including one element in the form of a hollow energizing winding and another element in the form of a magnetizable core received in the interior of said winding, the winding being normally stationary and the core being movable and coupled with the dampener; and a mounting for the electromagnet winding and bar and upon which this electromagnet element and bar are adjustable toward and from the hammer.

1,691,296. AUTOMATIC TRAIN-SWITCHING DEVICE. IVAN I. LITVINCHEV, Moscow, Russia. Filed Dec. 5, 1927. Serial No. 237,870. 2 Claims. (Cl. 246—424.)



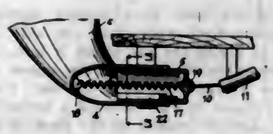
1. In an automatic train switching device, the combination with guiding rails attached to the roadbed at points of switching between track rails, each of said guiding rails being parallel to its respective track rail, of guiding wheels supported underneath the body of a railroad vehicle, said guiding wheels being adapted to slide in a vertical direction, and an elastic fluid operated means to move said guiding wheels so as to selectively bring them in an operating engagement with said guiding rails.

1,691,297. SEALING OF SLIP-COVER CANS OR CONTAINERS. GEORGE F. MILLER, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 16, 1924. Serial No. 720,409. 2 Claims. (Cl. 226—80.)



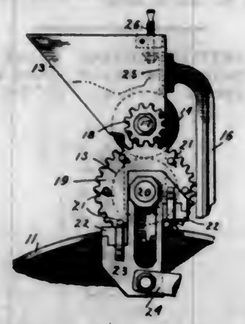
1. A compound applying machine for applying compound to closed beaded sheet metal boxes, having in combination an applying roll shaped to enter between the beads of the body and cover of the box, means for supplying fluid compound to said roll, an opposing roll, whereby the box is held between and rotated by said rolls, mechanism connected with the shaft of each of said rolls for rotating the same, and a chute having box guiding sides and extending to the space between said rolls in line with said applying roll.

1,691,298. AUTOMOBILE SANDER. WILLIAM H. MINLER, Toledo, Ohio. Filed Sept. 14, 1927. Serial No. 219,409. 5 Claims. (Cl. 291—34.)



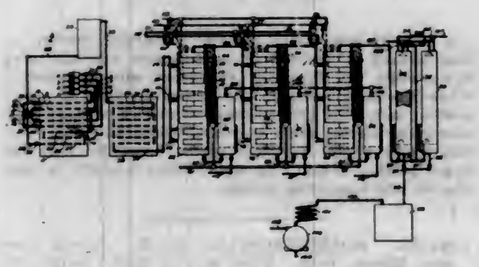
1. In an automobile sander, a container for containing sand, the container having a funnelled end terminating in a cylindrical throat, a cylindrical stopper having a slot and fitting the throat and movable longitudinal with respect to the axis of the throat.

1,691,299. PRINTING PRESS. ALBERT S. N. OLSON, St. Louis, Mo. Filed Feb. 7, 1925. Serial No. 7,630. 3 Claims. (Cl. 101—340.)



1. In a printing press the combination of an ink disk, rounded to rotate in a fixed position, form inking means moving to and from the disk and means for supplying ink to the disk directly independently of the form inking means over an area substantially less than the disc area, comprising a roller having contact with the disk, and a ductor roller having driving contact with said first mentioned roller, both of said rollers being mounted to rotate in fixed positions, whereby both are in constant contact, and the roller in contact with the disk is in constant contact therewith.

1,691,300. PROCESS OF AND APPARATUS FOR PRODUCING GASOLINE AND OTHER LIGHT HYDROCARBONS FROM HEAVIER HYDROCARBONS. BERNARD ORMONT, New York, N. Y., assignor to Bernard Ormont Associates, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 9, 1923. Serial No. 667,532. 7 Claims. (Cl. 196—53.)

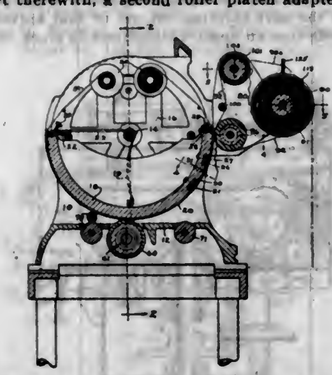


1. A method of treating a hydrocarbon oil which comprises heating the oil to a temperature sufficient to vaporize the lighter fractions thereof but insufficient to completely vaporize the same; independently heating water to produce a region of nascent steam; regulating the proportion of oil to water so that with any oil treated the product of the latent heat of vaporization of the oil and the weight of said oil shall substantially equal the product of the latent heat of vaporization of the water and the weight of said water; conveying the unvaporized oil to said region of nascent steam where the oil is completely vaporized; and subjecting the resultant mixture of oil vapors and steam to additional heating.

1,691,301. PRINTING MACHINE HAVING A CHANGEABLE FORM. HENRY C. OSBORN, Cleveland, Ohio, assignor to The American Multigraph Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 27, 1926. Serial No. 151,091. 14 Claims. (Cl. 101—53.)

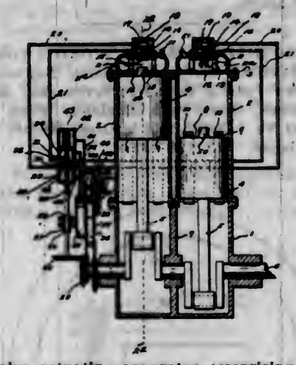
1. The combination of a printing member, a set of mutually independent address plates adapted to be individually mounted thereon successively, a roller platen adapted to coact therewith, a second roller platen adapted to coact





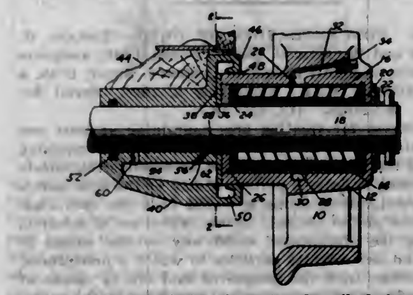
with the same address plates while on the printing member, and means for holding a roll of paper passing between the second platen and the form.

1,691,302. FUEL-INJECTION ENGINE. ADOLPHE C. PETERSON, Minneapolis, Minn. Filed Feb. 21, 1923. Serial No. 620,529. 16 Claims. (Cl. 123—32.)



1. A valve actuating apparatus comprising a fluid distributor and a plurality of valve pistons in valve piston casings, means whereby the fluid distributor may cause reversal of pressures on the opposite sides of the valve pistons periodically, and means whereby the reversal of a piston causes a change in the release of fluid to a related cylinder chamber.

1,691,303. JOURNAL BOX. HOWARD K. PORTER, Ridgewood, N. J., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 3, 1925. Serial No. 20,495. 5 Claims. (Cl. 308—180.)



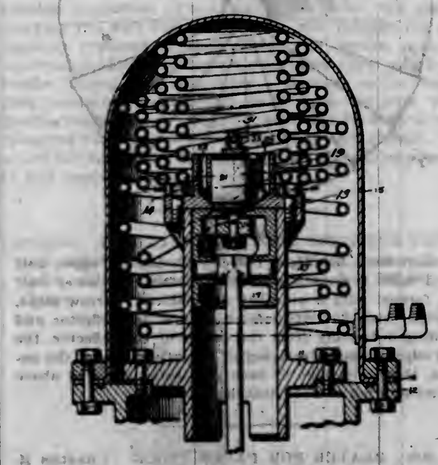
1. In a device of the character described, in combination, an axle, a wheel hub journalled on the axle and having a thrust face at its inner end, a journal box surrounding the axle and having a thrust face near its outer end, a lubricant reservoir at the bottom of the box at the side of its thrust face, a freely rotatable member supported by the axle between said thrust faces, said member having a flat side face extending across the end of the reservoir and having lubricant receiving and carrying openings in lateral communication with said reservoir, whereby the rotation of the member lifts lubricant from the reservoir and distributes it to the thrust faces; substantially as described.

1,691,304. SHOE-POLISH BOX. GEORGE CLAYTON REID, Cranford, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 9, 1921. Serial No. 513,918. 1 Claim. (Cl. 220—43.)



A container, comprising a cylindrical body having a circumferential rib protruding therefrom, and a resilient cover formed with an upwardly curved and domed top and having a flange adapted to frictionally engage the part of the body above said rib only, and provided with offset hollow portions at the bottom edge of the cover adapted to be pressed inwardly by the fingers to spring said cover flange from frictional engagement with said body part, the part of the body above said rib being tapered inwardly towards its top edge and the cover flange being expansible, by reason of said offset portions after it is pressed, relative to said tapered part.

1,691,305. COMPRESSOR. JOHN R. REPLOGLE, Detroit, Mich., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1926. Serial No. 110,616. 8 Claims. (Cl. 62—115.)



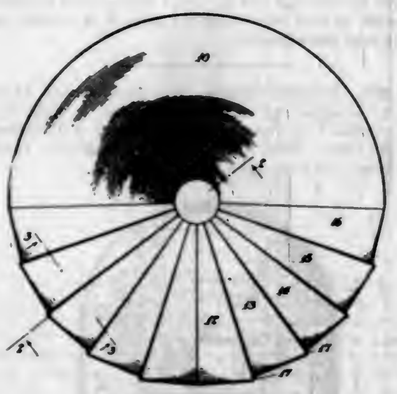
1. In a refrigerating system having a condenser in communication with the outlet port of a compressor, an exhaust valve structure comprising a seat, a closure element, a spring for exerting pressure to return and maintain said closure element against said seat between the compression strokes, a stop element to limit the lift of said closure element under a predetermined pressure, and a liquid shock absorber means associated with said closure element and said stop member.

1,691,306. PACKAGE. MARTIN ROSEN, Chicago, Ill. Filed Aug. 24, 1927. Serial No. 215,004. 4 Claims. (Cl. 206—56.)



1. A package comprising in combination loose particles of food, a stiff sheet and a diamond-shaped wrapper for enclosing said particles of food, three corners of said wrapper being folded over and secured to one face of said sheet, the remaining corner of said wrapper being disposed between said contents of the package and the other face of said sheet, whereby said last mentioned corner may be pulled out and assist in dispensing the contents from the package.

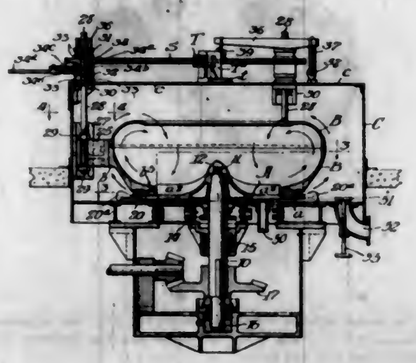
1,691,307. HEADLIGHT REFLECTOR. EUGENE SCHIMPFF, Scranton, Pa. Filed Apr. 23, 1926. Serial No. 104,000. 1 Claim. (Cl. 240—41.)



A short-focus headlight reflector having its upper half formed with a smooth parabolic surface, its lower half being formed with a plurality of relatively narrow steps, the steps being flat circumferentially of the reflector and extending outwardly from the center of the reflector, the upper edge of each step lying in a continuation of the parabola, the lower edge of each step being elevated above the continuation of the parabola.

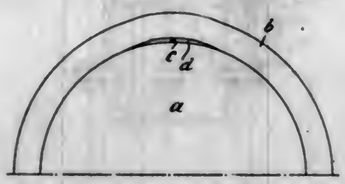
1,691,308. BEATER FOR PAPER STOCK. CHARLES R. SEABORNE, Appleton, Wis. Filed Aug. 5, 1925. Serial No. 48,217. 19 Claims. (Cl. 92—20.)

1. A machine of the character described comprising a tank, a bowl within said tank and spaced from the wall thereof, said bowl having a bottom with an opening therein and provided around said opening with a plurality of spaced and downwardly projecting beater knives, a plate located beneath and closing the bottom opening of said bowl and provided with beater knives arranged opposite the knives of said bowl to cooperate therewith and provide an entrance therebetween for stock to be beaten, means for imparting rotation to the part carrying one set of said knives, and means for effecting an upward circulation to stock between



the tank and bowl, and both an upward and downward circulation to stock within the bowl to prevent the stock within the bowl from settling over and plugging the entrance to the knives.

1,691,309. LOADED ELECTRIC CONDUCTOR. WILLOUGHBY STATHAM SMITH, Benchams, Newton Poppleford; HENRY JOSEPH GARNETT, Sevenoaks; and JOHN ANCEL HOLDEN, Gidea Park, England. Filed Nov. 17, 1926, Serial No. 149,007, and in Great Britain Sept. 25, 1926. 7 Claims. (Cl. 178—45.)



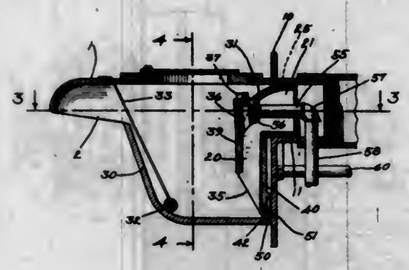
1. A method for the manufacture of loaded conductors which require heat treatment to develop the required magnetic properties, which comprises laying a metal spacer fusible at a temperature not exceeding the temperature for annealing the loading upon the conductor, winding the loading material over the conductor and the metal spacer and subjecting the loaded conductor to the said heat treatment which causes the metal spacer to melt.

1,691,310. CONCENTRATION OF ORES. EDWARD H. SNYDER and WILLIAM D. GREEN, Bauer, Utah, assignors to Combined Metals Reduction Company, Bauer, Utah, a Corporation of Utah. Filed July 2, 1925. Serial No. 41,200. 8 Claims. (Cl. 75—18.)

1. A process for treating ores containing at least one of the metals of the group, silver, lead, copper, comprising subjecting the ores to the action of an alkaline thiosulfate for dissolving at least a portion of any of the said metals when present, precipitating as sulfid from the said alkaline solution any of the said metals, which are in solution, separating the precipitated sulfid, any natural sulfids in the ore and any mineral particles to which a precipitated sulfid adheres, from the gangue of said ore by means of froth flotation while regenerating the solvent by the action of the precipitant upon the ore solution.



1,691,311. OIL-BURNING APPARATUS. CHARLES M. STROUD, Minneapolis, Minn., assignor of one-half to Leslie H. Fawkes, Minneapolis, Minn. Filed Feb. 16, 1927. Serial No. 168,619. 25 Claims. (Cl. 158—56.)



1. A device of the class described comprising a casing having a flame discharge orifice and a horizontal air intake conduit at that end opposite the orifice, a tubular element as a chamber and as a continuation of the air intake orifice having an extension arranged to discharge downwardly into the casing the point of discharge being below the level of the air intake conduit, means for delivering oil into the extension in a downward direction at a point substantially at the level of the air intake, an oil over-flow pipe communicating with the casing below the air intake, said extension being protectingly opposed to the intake end of the over-flow pipe.

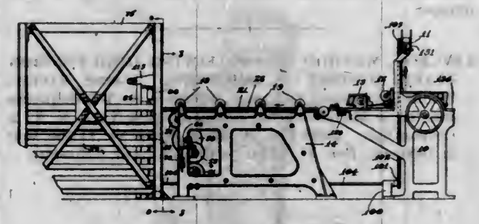
1,691,312. WINDSHIELD FOR AUTOMOBILES. HORACE T. THOMAS, Lansing, Mich. Filed Sept. 15, 1924, Serial No. 737,708. Renewed Sept. 23, 1927. 4 Claims. (Cl. 296—93.)



1. The combination of a wind shield, an automobile having an opening for said wind shield, and a flexible part joining adjacent edges of said shield and opening and constituting a hinge that shall hold the edge of said shield adjacent to the edge of said opening in position and permit the wind shield to turn about said hinge, said part consisting of a strip of rubber permanently secured to one of said edges and fixedly secured to the other edge by a groove and tongue construction so as to form a tight joint between said edges.

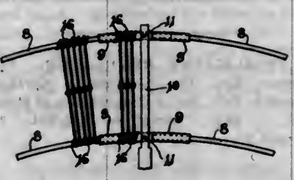


1,691,313. DISTRIBUTING DEVICE. FRANK TOOHEY, South Acton, Mass., assignor to Harding Engineering Company, East Boston, Mass., a Corporation of Massachusetts. Filed Mar. 27, 1925. Serial No. 18,838. 17 Claims. (Cl. 209—88.)



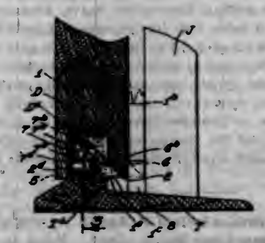
1. An improved distributing device for sheet material, comprising a vertically movable rack having a plurality of shelves, means for positioning said shelves in accordance with the thickness of the sheet material, and means for automatically depositing the sheet material thereon.

1,691,314. SHEDDING MOTION FOR CIRCULAR LOOMS. SAKICHI TOYODA, Nagoya, Japan. Filed Jan. 10, 1928. Serial No. 245,642. 3 Claims. (Cl. 139—16.)



1. In a circular loom of the type having a circular reed adapted to partake of a gyratory movement, the shuttle carrying the weft being adapted to pass through the successively produced sheds along the said circular reed, an improved shedding mechanism comprising upper and lower heddle frames, each comprising a plurality of arc-shaped rods connected continuously to form a complete ring, sheaths telescopically connected with said arc-shaped rods, operating rods pivotally connected with said sheaths, and a cam for controlling the outward and inward movements of said operating rods.

1,691,315. AUTOMATIC WEATHER STRIP FOR DOORS AND THE LIKE. LLOYD E. VAN AUKEN, Lemon Grove, Calif. Filed June 27, 1927. Serial No. 201,642. 8 Claims. (Cl. 20—67.)

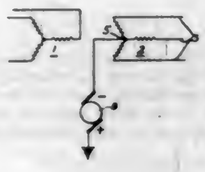


1. In a device of the class described, a door grooved at its lower edge, a weather strip supporting means secured over each end of said groove in said door, a plunger recip-

rocally mounted in one of said weather strip supporting means, a lug extending from said plunger through said weather strip supporting means, a weather strip pivotally mounted between said weather strip supporting means, and a slotted lug at one end of said weather strip shiftable and operatively connected with said lug in said plunger.

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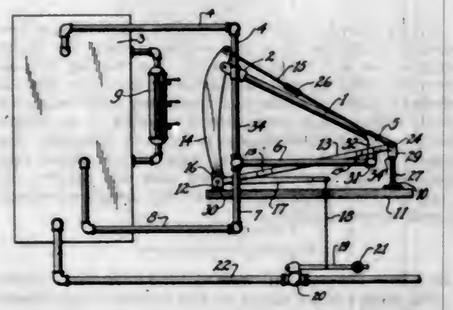
1,691,316. METHOD OF PROTECTING HIGH-TENSION LINES AGAINST FLASHOVERS. ALBERT VAUPEL, Berlin-Grunewald, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y., a Corporation. Filed Feb. 26, 1925, Serial No. 11,899, and in Germany Feb. 27, 1924. 4 Claims. (Cl. 175—30.)



1. The method of protecting high-tension electrical distribution systems against flashover which consists in reducing the magnitude of the positive half-cycle of potential with respect to the magnitude of the negative half-cycle of potential.

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1,691,317. FEED-WATER REGULATOR. VINCENT Y. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed Sept. 2, 1922. Serial No. 585,984. 11 Claims. (Cl. 122—451.1.)

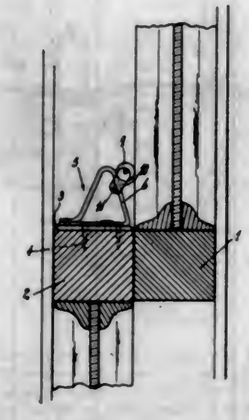


1. A feed-water regulator comprising a thermostatic tube in combination with a feed-water valve, means supporting one end of said tube, two levers, means pivotally connecting the fulcrum of each lever directly with said end, means fixed to the other end of said tube and pivotally connected with one of said levers, means operatively connecting the other lever with said valve, and means pivotally connecting said two levers, a triangle being formed by said tube, one of said levers and the means connecting the other lever to said fixed end, said triangle being approximately equilateral.

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1,691,318. BURGLARPROOF SASH FASTENER. WILLIAM E. WARD, Long Beach, Calif. Filed Oct. 6, 1926. Serial No. 139,825. 1 Claim. (Cl. 292—239.)

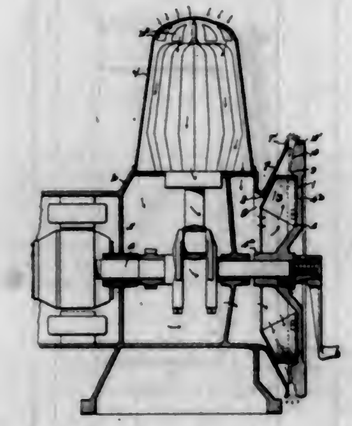
In a window comprising upper and lower sashes, a plate secured to the top of the lower sash, a wedge member secured to said plate, said wedge member comprising an inclined wedge plate, a roller, links on which said roller is journaled, a pin extending between said links and back of said wedge plate, said links serving to couple the roller to



the wedge member, a stop lug on the inside of said inclined wedge plate, against which said pin is adapted to rest to prevent accidental displacement of the roller.

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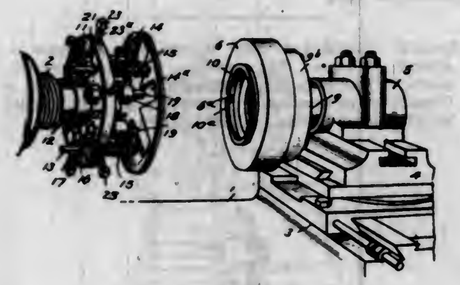
1,691,319. CENTRIFUGAL FAN. JAMES A. WATKINS, Detroit, Mich., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Dec. 18, 1920, Serial No. 431,590. Divided and this application filed Nov. 3, 1923. Serial No. 672,526. 2 Claims. (Cl. 123—171.)



1. The combination with an engine having a casing, of a fan wheel positioned at one side of the fly wheel of the engine, said fly wheel having an outer annular peripheral portion extending beyond the tips of the blades of the fan wheel, and the engine casing having an opening and an annular extension adjoining said opening extending beyond the tips of the fan blades, said outer peripheral portion of the fly wheel and said annular extension of the engine casing forming an annular peripheral discharge nozzle for the fan wheel.



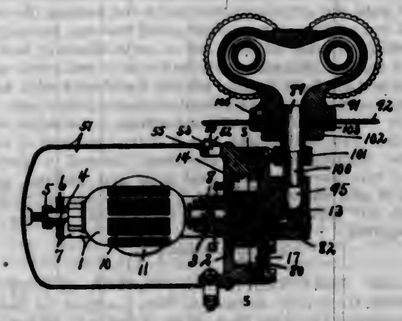
1,691,320. ATTACHMENT FOR LATHES. HARRIS MORGAN WHITCOMB, Albany, Wis. Filed Aug. 24, 1925. Serial No. 52,082. 10 Claims. (Cl. 82—34.)



1. A cutting attachment for lathes or the like comprising a tool plate having means for attachment in a chuck, said tool plate having a plurality of radially arranged transverse slots, cutting elements working in certain of said slots and having means whereby they may be adjusted and locked in a set position, shanks extended through other of said tool plate slots and radially adjustable therein, each of said shanks having a socket in its outer end, an antifriction work-engaging roller and bearing therefor axially slidable in said socket, a spring interposed between said bearing and the inner end of said socket for yieldingly projecting said roller in the direction of the work, and means for holding said bearing and shank in assembled relation and positionable to variably limit the relative axial movement of said bearing in said socket.

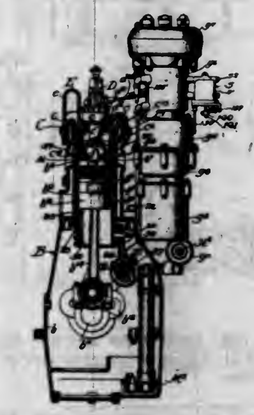
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1,691,321. SIGNALING DEVICE. GEORGE A. WHITE and WILLIAM SPARKS, Jackson, Mich., assignors to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed June 13, 1927. Serial No. 198,422. 8 Claims. (Cl. 116—142.)



1. In an apparatus of the class described, the combination with a vehicle body of a combined motor and pump disposed within the vehicle body, a horn body, diaphragm chamber and projector disposed exterior of the vehicle body, a tubular member connected to the pump and to the horn body, and extending through the vehicle body, and a bracket connected to the combined motor and pump and secured to the vehicle body for supporting the structure.

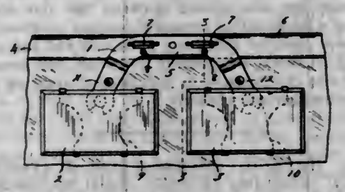
1,691,322. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. AAGE E. WINCKLER, Milwaukee, Wis. Filed Mar. 26, 1925. Serial No. 18,383. 30 Claims. (Cl. 123—196.)



1. The combination of an enclosing casing adapted to contain lubricant, fuel pumps in said casing, metering devices in said casing, mechanism for operating said devices in said casing, means for delivering lubricant under pressure to said casing to lubricate the parts therein, and means for rendering the pumps ineffective to deliver fuel when the pressure of the lubricant in the casing falls below a predetermined degree.

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1,691,323. SUPPORT FOR REAR-VIEW MIRRORS. FRED W. ZINK, Detroit, Mich., assignor to Kales Stamping Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 23, 1926. Serial No 96,710. 1 Claim. (Cl. 45—99.)



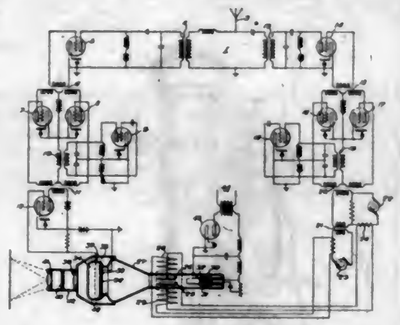
In combination, a pair of laterally spaced mirrors, a pair of holders secured to said mirrors, arms projecting at substantially right angles from said holders, an inverted substantially U-shaped bracket having the base of the U attachable to the top rail of a windshield, said frame, and having the arms of the U extending downwardly adjacent said holders, and jaw members respectively secured to the arms of said U-shaped frame and claiming the arms aforesaid against the said arms of said U-shaped bracket.

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1,691,324. TELEVISION SYSTEM. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 18, 1925. Serial No. 43,219. 5 Claims. (Cl. 178—6.)

1. In a television system, comprising a television transmitter, a television receiver and an object at the transmitter, means including said transmitter and receiver for reproducing an image of the object, a light filter associated with both the transmitter and receiver, means con-

trolled by the filters for causing the reproduced image to appear in the colors of the object, a source of monochromatic light of a definite color, and means including the light



for enabling the light filter at the receiving station to be properly adjusted to control the reproduction of the image in the desired colors.

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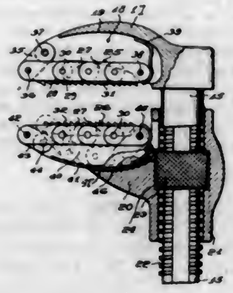
1,691,325. AUTOMATIC BRAKE-ADJUSTING MECHANISM. CHARLES O. ANDERSON, Omaha, Nebr. Filed Mar. 26, 1927. Serial No. 178,669. 11 Claims. (Cl. 188—202.)



1. In an automatic slack-adjuster for brakes, a brake-lever-connection comprising terminal heads connected with the brake-levers, and an intermediate rod connecting said heads and rotatable relatively thereto, a portion of said rod being threaded and engaging a threaded portion of one head, means for maintaining between the rod and the other head a longitudinal pressure constant in direction, a clutch-sleeve mounted rotatively upon said rod and having a constant frictional engagement therewith, and means for actuating said clutch-sleeve in directions alternating as the brakes are applied and released.

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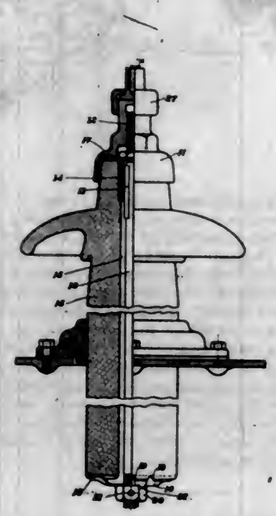
1,691,326. WRENCH. CHARLES F. ASH, Jr., Valley Station, Ky. Filed July 18, 1927. Serial No. 206,602. 4 Claims. (Cl. 81—66.)



1. In a wrench of the character described, a shank, a relatively stationary jaw head carried thereby, a movable jaw head mounted upon the shank, a chain element arranged adjacent to the stationary jaw head and having its inner end pivotally connected therewith, links pivotally connecting the outer end of the chain element with the stationary jaw head, a second chain element arranged adjacent to the movable jaw head and having its inner end pivotally connected therewith, and links pivotally connecting the outer end of the second named chain element with the movable jaw head.

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1,691,327. TERMINAL FOR BUSHINGS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 29, 1922. Serial No. 578,464. 9 Claims. (Cl. 173—318.1.)



2. In combination a dielectric bushing, a conductor rod extending thru said bushing, means connected with said rod for engaging the inner end of said bushing for limiting the outward movement of said rod, means removably connected with the outer end of said rod for holding the end of said rod against movement into said bushing, means for preventing rotation of said rod in said bushing, and a closure member threaded onto said rod at the outer end thereof and having a bearing portion registering with said bushing and exerting an outward tension on said rod.

5. In combination a dielectric bushing, a conductor rod extending thru said bushing, a stop at the inner end of said rod for limiting outward movement thereof, a spring washer interposed between said stop and bushing, and means on said washer co-operating with said conductor and bushing for preventing rotation of said rod relative to said bushing.

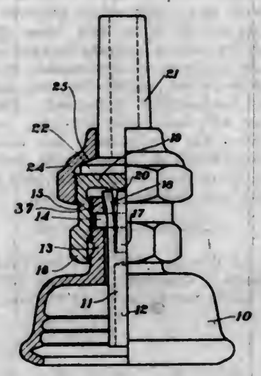
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1,691,328. TERMINAL FOR INSULATOR BUSHINGS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 3, 1922. Serial No. 579,347. 10 Claims. (Cl. 173—353.)

10. A fitting for an insulator bushing comprising a cap arranged to cover the end of a bushing and having a flange of less diameter than said cap extending upwardly from the top thereof, said flange having an opening therethrough, a conductor extending through said opening and having a portion of the end thereof projecting beyond said flange, said projecting portion being slitted to provide resilient tongues, and a cover cap threaded upon the exterior of said



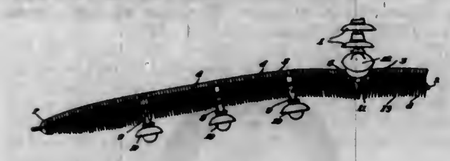
flange and providing an imperforate closure for an opening through said flange, said cover cap having a tapered boss



extending toward the end of said conductor and arranged to enter between said tongues to force said tongues outwardly against the inner face of said flange.

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1,691,329. HIGH-TENSION INSTALLATION. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Original application filed Oct. 20, 1921, Serial No. 508,933. Divided and this application filed May 4, 1925. Serial No. 27,691. 9 Claims. (Cl. 173—13.)



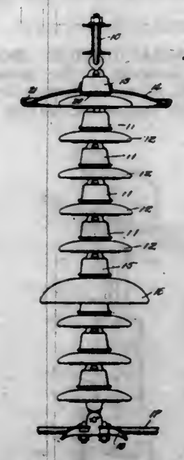
1. The combination with a high potential transmission line, and a series of connected loops of conducting material surrounding said line and electrically connected therewith and spaced from one another to provide an openwork cage extending longitudinally of said line.

2. The combination with a transmission line, having a support, of an openwork cage disposed adjacent said support and extending longitudinally of said line, said cage comprising an elongated member of conducting material wound in a helix about said transmission line.

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1,691,330. INSULATOR. ARTHUR O. AUSTIN, near Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Substitute for application Serial No. 459,063, filed Apr. 6, 1921. This application filed June 10, 1927. Serial No. 197,976. 2 Claims. (Cl. 173—318.)

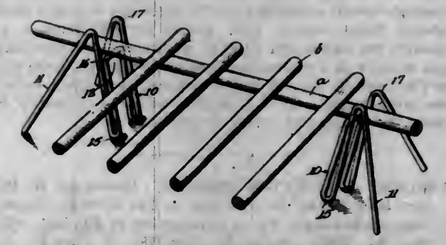
2. The combination with a series string of detachably connected insulators, each having an upper approximately cylindrical restricted portion and a radially projecting flange of supplemental flanges of dielectric material, each having a diameter greater than the maximum diameter of said insulators, one of said supplemental flanges having an opening therethrough of a size to receive the upper restricted portion of one of said insulators, to permit the supplemental flange to rest on the flange of the insulator and support said supplemental flange on said insulator, said supplemental flange being carried on the uppermost insulator of the string and having a reinforcement extending about the periphery of the opening therethrough, another



of said supplemental flanges being carried on an insulator between the ends of the string, the intervening insulators of the string being without supplemental flanges.

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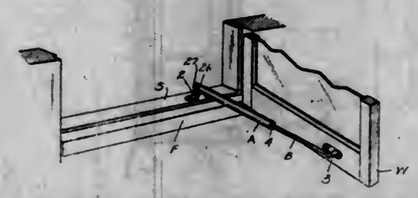
1,691,331. ROD SUPPORT. FRANCIS M. BARTON, Chicago, Ill. Filed Apr. 11, 1928. Serial No. 269,056. 2 Claims. (Cl. 72—122.)



1. A support for a reinforcing bar, formed from a single strip of wire and comprising a pair of substantially parallel legs, each consisting of a member having one end doubled back upon itself to form a second member directly in front thereof, and a cross member joined to the second members by bent portions disposed directly in front of and lapping the front faces of the other members, said cross-bar being operative to space the legs apart and support the bar.

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1,691,332. BRACE ROD FOR CASEMENT WINDOWS. JACOB BEUC, St. Louis, Mo. Filed Jan. 23, 1928. Serial No. 248,787. 4 Claims. (Cl. 292—275.)

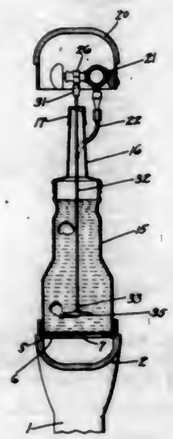


1. A brace rod for casement windows, or the like, comprising a tubular casing, a plurality of clutch members within said casing, a rod adapted for sliding movement

within said casing, means for actuating the clutch members to grip and release said rod, and means for effecting adjustment for compensating against play due to wear.

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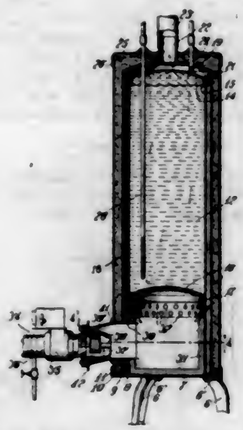
1,691,333. OIL-DISPLAY DEVICE. HANS M. BOE, Minneapolis, Minn., assignor to Boe Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 16, 1927. Serial No. 175,903. 7 Claims. (Cl. 40—126.)



1. A display device comprising a tube of transparent material having liquid therein, a bubble-forming and releasing element submerged in the liquid and having a downwardly faced concave side, means for delivering a gas beneath the submerged element, and means for controlling gas delivery in a manner to form small bubbles, cause them to rise beneath the submerged element, and collect to form one large bubble, and to cause said bubble to gradually displace the liquid, and escape intact and rise.

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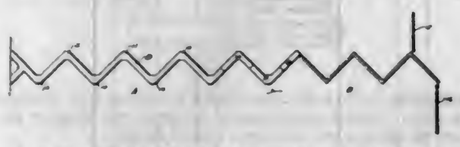
1,691,334. HOT-WATER HEATER. MARSHALL H. BRADEN, Rock Island, Ill., assignor to The Nu-Way Corporation, Rock Island, Ill., a Corporation of Illinois. Filed Dec. 13, 1926. Serial No. 154,378. 3 Claims. (Cl. 122—19.)



2. A domestic hot water heater comprising three spaced concentric shells, a single bottom plate on which all three of said shells rest, separate heads closing the upper ends of the inner and intermediate shells, said heads being spaced to define an upper flue area therebetween, an outlet duct communicating with said upper flue area, a lower head in said inner shell to define a water chamber above said lower head, and a combustion chamber between said head and said bottom plate, said inner shell having a plurality of holes therein adjacent to said lower head for conducting the products of combustion from said combustion chamber to an annular flue area defined between the inner and intermediate shells, said annular flue area communicating with said upper flue area, heat insulating material between the intermediate and outer shells and extending down around the sides of said combustion chamber substantially to said bottom plate, and burner means associated with said combustion chamber.

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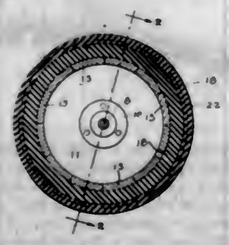
1,691,335. SEA WALL, JETTY, AND SIMILAR STRUCTURE. HARRY V. CAMPBELL, Freehold, N. J. Filed Oct. 20, 1926. Serial No. 142,855. 11 Claims. (Cl. 61—4.)



1. A self-sustaining sea wall consisting of a rigid elongated structure extending substantially perpendicular to the shore line and having a series of alternately arranged interconnected portions extending on opposite sides of a longitudinal or mean center line of the structure.

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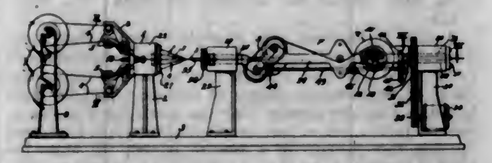
1,691,336. ROLL. LLOYD V. CASTO, Detroit, Mich., assignor to Oxford Varnish Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 14, 1927. Serial No. 175,308. 6 Claims. (Cl. 101—407.)



1. In an impression or transfer roll, the combination of a core structure embodying sponge rubber and an overlying composition surface placed thereon in precompressed relation to the sponge rubber.

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1,691,337. STRANDING MACHINE. EDWARD A. CONNER, Stratford, Conn., assignor to American Cable Company, Inc., a Corporation of Delaware. Filed July 25, 1925, Serial No. 45,970. Renewed Jan. 21, 1928. 24 Claims. (Cl. 117—16.)



1. In a stranding machine, a non-rotating head provided with means to form the strand components into helices prior to laying said strand components, and means to draw said strand components through said preforming means and lay the helical components and at the same time rotate the product at a speed coordinate with the speed of formation of the helices.



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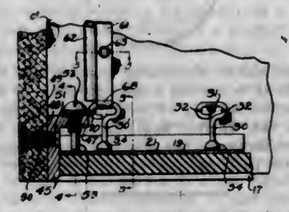
1,691,338. AERIAL SYSTEM. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 5, 1923. Serial No. 666,703. 5 Claims. (Cl. 250—9.)



1. An antenna system comprising an aerial, a counterpoise, a conductor of minimum inductance therebetween, an oscillation generator at a distance greater than the sphere of inductive influence, and a single-conductor link circuit therebetween.

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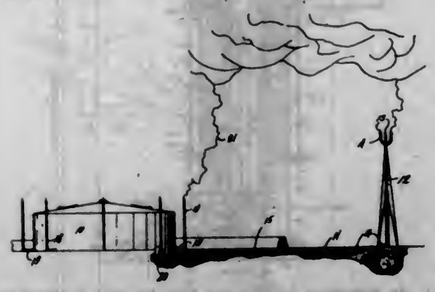
1,691,339. SHOWER-BATH PROTECTOR. WILLIAM L. DEMING, Salem, Ohio. Filed Dec. 31, 1927. Serial No. 243,859. 17 Claims. (Cl. 4—146.)



1. In combination, an upper and lower rail, a curtain, spaced means at the upper and lower edges of the curtain in sliding engagement with respective rails, and rigid means reinforcing one edge of the curtain and arranged to impart movement to the spaced means when manipulated to move the curtain to thereby prevent binding between said means and the rails.

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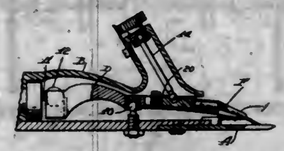
1,691,340. METHOD AND SYSTEM FOR PROTECTING PETROLEUM TANKS AND TANK FARMS AGAINST LIGHTNING. WEST DODD, Des Moines, Iowa. Filed May 15, 1926. Serial No. 109,310. 2 Claims. (Cl. 173—31.)



1. In a system for protecting tanks, the combination of a plurality of tanks having metallic parts, means for electrically connecting said parts, a plurality of points arranged around the tanks spaced relatively short distances from the side walls thereof, a pipe line communicating with the tanks at the bottoms only, metallic towers spaced at greater distances from the tanks, terminating in metallic points, means for connecting said first-described points with the bottoms only of the adjacent tanks, and means for electrically connecting the points on the towers with the pipe line at locations farther from the tanks than are the first-described points.

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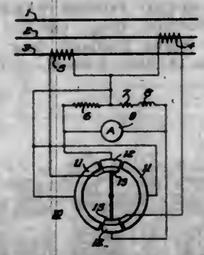
1,691,341. SHEEP SHEARS. FREDRICK G. EVANS, Oak Park, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 27, 1927. Serial No. 215,965. 4 Claims. (Cl. 30—1.)



1. In a sheep shear and the like in combination with a fixed comb and cutter blade, a co-operating reciprocating cutter blade and a lever by which the latter is reciprocated over the fixed blade, the reciprocated blade having recesses in its upper side for engagement by the actuating lever, and the lever having a plurality of projections for engaging said recesses, one of said projections being formed on a part carried by the lever and mounted movably thereon for movement with respect thereto at the point at which the projection is situated, in the general direction of the reciprocation of the blade.

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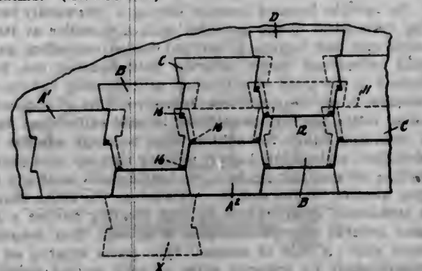
1,691,342. MEASURING INSTRUMENT. ROBERT D. EVANS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 31, 1924. Serial No. 729,232. 2 Claims. (Cl. 172—245.)



1. An instrument comprising a current-responsive device, means associated with said device for segregating the positive and negative components of an unbalanced polyphase quantity and means, including a switch having short-circuiting segments, for actuating said device in accordance with either component, as desired.

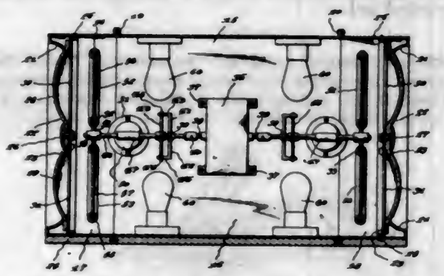
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1,691,343. ROOFING. JARED B. FRENCH, Rutherford, N. J. Filed Mar. 24, 1927. Serial No. 177,980. 10 Claims. (Cl. 108—7.)



1. A flexible roofing element adapted to be laid widely spaced with others in courses and comprising spaced, downwardly tapering portions and an intermediate upwardly tapering portion.

1,691,344. TRAFFIC SIGNAL. BERNARD FUHRER, New York, N. Y. Filed Nov. 18, 1927. Serial No. 234,216. 5 Claims. (Cl. 116—63.)

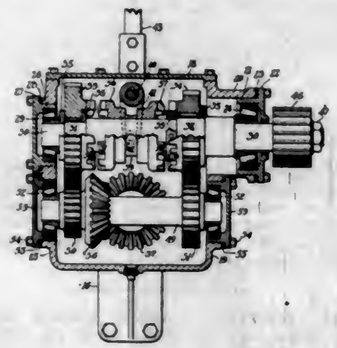


1. In a traffic signal, a casing presenting a series of openings disposed in the opposite sides thereof, a double unit screen member adapted to rotate before each of said openings for exhibiting a selected color signal and means for intermittently and simultaneously operating said screens.

1,691,345. DECOLORIZATION OF ALKALINE-EARTH-METAL THIOCYANATE SOLUTIONS. ROBERT R. FULTON, Wilkinsburg, Pa., assignor to The Koppers Company, a Corporation of Pennsylvania. Filed Dec. 31, 1926. Serial No. 158,422. 16 Claims. (Cl. 260—10.)

1. The process of decolorizing a solution of an alkaline earth metal thiocyanate which comprises adding thereto a derivative of a water-soluble fatty acid.

1,691,346. TWO-SPEED POWER TAKE-OFF. SIDNEY B. GORBUTT, Portland, Oreg., assignor to Willamette Iron and Steel Works, Portland, Oreg. Filed Apr. 6, 1927. Serial No. 181,383. 1 Claim. (Cl. 74—59.)



An upright housing member having a rearwardly extending cylindrical flange provided with a shoulder at its forward end and having a vertical flange extending around said cylindrical flange whereby said housing can be attached to the body of a tractor, said housing having a removable cover over the top thereof; a pair of opposed tapered roller bearings shouldered in said cylindrical flange; a retaining flange for holding said bearings against their shoulder; a shouldered shaft passing through said bearings having its shoulder against one bearing and having a bevel gear secured on the end thereof against the other bearing; a transverse countershaft in said housing having a bevel gear secured thereto meshing with said first mentioned bevel gear; a pair of unequal spur gears secured on said countershaft on opposite sides of said second mentioned bevel gear; a power delivery shaft having loose gears mounted thereon meshing with said unequal gears, said loose gears having clutch teeth formed on their adjacent sides; and having a clutch collar splined on said power delivery shaft between said loose gears with lever means for moving and holding said collar into engagement with either gear or in a neutral position.

1,691,347. METHOD OF MOLDING EBONITE COMPOSITION. HAROLD GRAY, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed June 14, 1923. Serial No. 645,367. 11 Claims. (Cl. 18—53.)

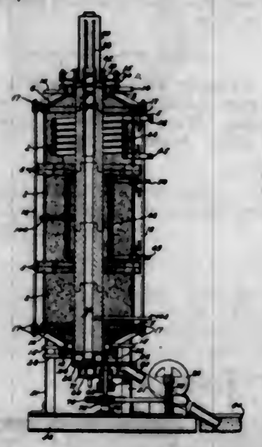
1. The method of producing ebonite which comprises mixing rubber, a vulcanizing agent and sufficient pigment substantially to stiffen the mix after a momentary vulcanization, partially vulcanizing the mix in a mold, removing it from the mold and thereafter subjecting it to further vulcanization.

1,691,348. DRESS SHIELD. FLORENCE L. HANAUER, New York, N. Y. Filed June 22, 1927. Serial No. 200,528. 3 Claims. (Cl. 2—53.)



1. A dress shield comprising a single flat blank transversely foldable to provide a body portion and a sleeve portion, the outermost edge of the latter being concave when the blank is flat, whereby said edge will lie in a plane substantially transverse to the arm of a wearer when the blank is folded into position beneath the armpit of the wearer.

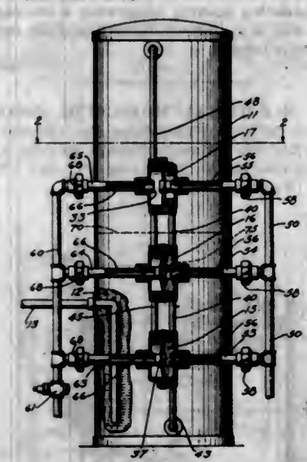
1,691,349. HIGH-FREQUENCY INDUCTION FURNACE. GEORGE F. HARRINGTON, Edgewood, and PORTER H. BRACE, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 1, 1927. Serial No. 195,629. 4 Claims. (Cl. 266—1.5.)



1. An induction furnace for heat treating a continuous train of articles of uniform size, comprising a vertically disposed elongated graphite tube adapted to contain a stack of said articles, an inductor coil surrounding the central portion of said tube to effect the heating thereof, and a second inductor coil of relatively few turns surrounding the upper end of said tube to effect a desired temperature gradient longitudinally of said tube.

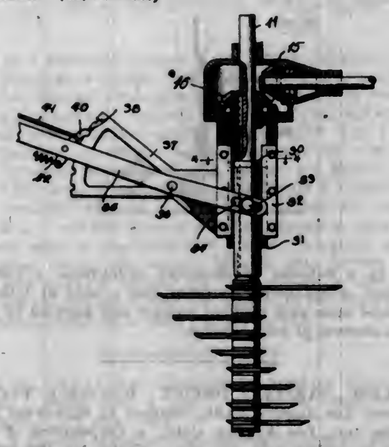


1,691,350. GAS TRAP. FORD W. HARRIS, Los Angeles, Calif. Filed Jan. 18, 1927. Serial No. 161,841. 7 Claims. (Cl. 183—2.7.)



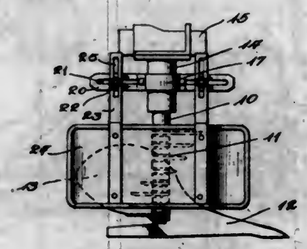
3. In a gas trap, the combination of: a tank providing a separating chamber; means for supplying a gas-liquid mixture to said separating chamber; a plurality of valve structures placed at different heights, each of said valve constructions consisting of a gas chamber, a liquid chamber, a diaphragm forming a common wall for said chambers, a gas port for said gas chamber, a liquid port for said liquid chamber, a gas valve carrier by said diaphragm for closing said gas port, and a liquid valve carried by said diaphragm for closing said liquid port; means for connecting said gas chambers to the gas end of said separating chamber; means for connecting said liquid chambers to the liquid end of said separating chamber; a plurality of liquid flow tubes, one of said liquid flow tubes being connected to each of said liquid ports, said liquid tubes having different sized openings; and a plurality of gas flow tubes, one of said gas flow tubes being connected to each of said gas ports, said gas flow tubes having different sized openings.

1,691,351. TILLER. THOMAS W. HICKS, Minneapolis, Minn. Filed Mar. 29, 1923. Serial No. 628,643. 5 Claims. (Cl. 97—43.)



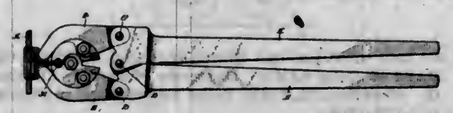
1. In a tillage implement, a substantially vertical rotatable and longitudinally adjustable shaft provided with horizontally extending tiller blades, a bracket member for supporting the shaft adjacent only at its upper end, driving means for the shaft carried by the bracket, a sleeve enclosing the shaft and vertically adjustable with relation to the bracket, and a collar on the shaft resting on the upper edge of the sleeve whereby vertical adjustment of the sleeve will correspondingly adjust the tiller shaft.

1,691,352. TILLER. THOMAS W. HICKS, Minneapolis, Minn. Filed Mar. 29, 1923. Serial No. 628,649. 3 Claims. (Cl. 97—6.)



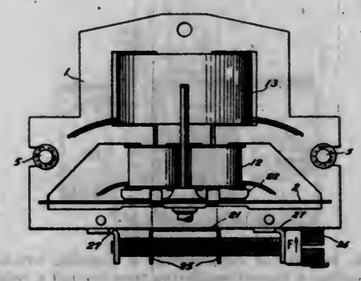
1. In a plow having a rotatable tiller mounted thereon to disintegrate earth in the act of being turned by the plow, a shield adjustably mounted with respect to the tiller, and means providing for an adjustment of said shield both vertically and horizontally.

1,691,353. CLIP-ATTACHING TOOL. CLAYTON JONES, Duluth, Minn. Filed May 13, 1927. Serial No. 191,132. 6 Claims. (Cl. 81—15.)



1. In an attaching tool, a pair of gripping jaws, a pivoted connection between said jaws, a pair of bending jaws pivotally connected to the gripping jaws, and a pair of pivotally connected operating levers, one of said levers being pivotally connected to each of the bending jaws.

1,691,354. ELECTRICAL MEASURING INSTRUMENT. BERT G. LA BAR, Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924. Serial No. 736,425. 2 Claims. (Cl. 171—264.)

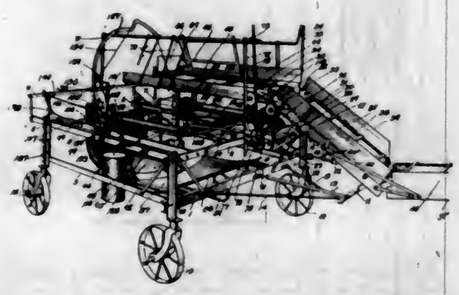


1. An electrical measuring instrument comprising a magnetizable core member, means for energizing said core member, a pivoted armature adjacent said core member,

and friction-compensating means for said armature, said compensating means comprising a reciprocally movable conducting member resiliently engaging said core member.

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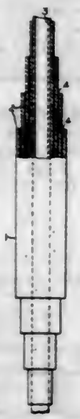
1,691,355. SHOCKER. JAMES A. MCELROY, Kansas City, Mo. Filed Mar. 30, 1923. Serial No. 628,788. 24 Claims. (Cl. 56—409.)



1. A sheaf shocker comprising a frame, a shock forming mechanism carried thereby, a conveyor mechanism for delivering the bundles from the binder to the shock forming mechanism endwise, means for obstructing the movement of the bundles and means for conveying the bundles sidewise into the shocker.

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1,691,356. INSULATING BUSHINGS AND METHOD OF MAKING THE SAME. MONTFORD MORRISON, Chicago, Ill. Filed Sept. 13, 1923. Serial No. 662,458. 10 Claims. (Cl. 173—318.)



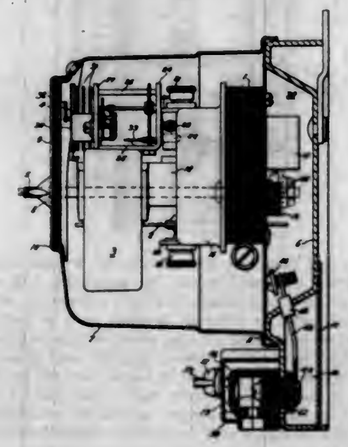
1. The method of constructing a bushing which comprises placing a heated insulating tube around a conductor and allowing the tube to shrink into position on the conductor.

4. The method of constructing a bushing which comprises initially independently constructing a plurality of fibrous insulating cylinders of different diameters, placing a body of metal foil thereon and placing the cylinders together with the body of metal foil in compression therebetween.

6. An insulating bushing comprising a current-carrying conductor and a preformed insulating tube surrounding the same under tension.

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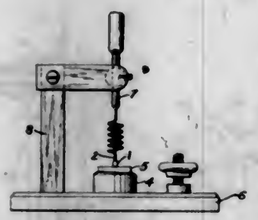
1,691,357. ELECTRICAL MEASURING INSTRUMENT. WALTER G. MYLIUS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 20, 1924. Serial No. 733,044. 5 Claims. (Cl. 171—34.)



2. A base for watthour meters comprising a one-piece sheet-steel member having a substantially U-shaped channel near its margin.

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1,691,358. DETECTOR. ARTHUR K. PHILLIPPI, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 7, 1921. Serial No. 506,172. 11 Claims. (Cl. 250—31.)



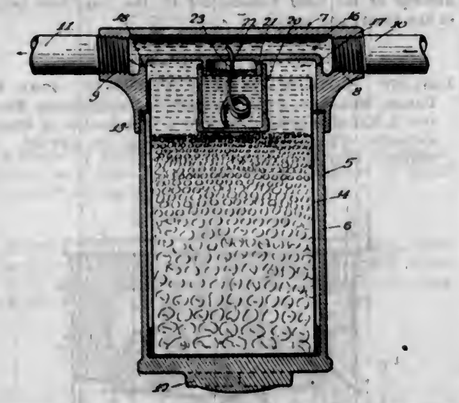
1. In a detector of electrical oscillations, a resilient member of conducting material and a bead of tellurium mounted upon said resilient member and adapted to serve as an element of said detector.

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1,691,359. SANITARY DEVICE. WILLIAM R. PULKINGHORN, Los Angeles, Calif., assignor to Spra-O-Sal Products, Inc., Los Angeles, Calif., a Corporation of California. Filed July 25, 1927. Serial No. 208,227. 3 Claims. (Cl. 4—226.)

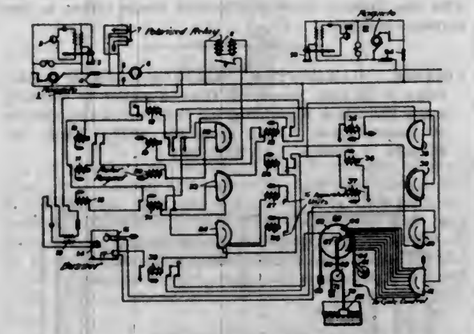
1. A sanitary device for toilet fixtures comprising a container for chemicals having a fluid passage above its upper end adapted for connection in a fluid supply pipe line, and a wick leading from the container into the fluid passage for delivering the chemical from the container to the fluid passage, whereby the water flowing through the passage will be chemicalized.





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1,691,360. CONTROL SYSTEM. MAURICE E. REAGAN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 6, 1924. Serial No. 718,221. 3 Claims. (Cl. 177—351.)

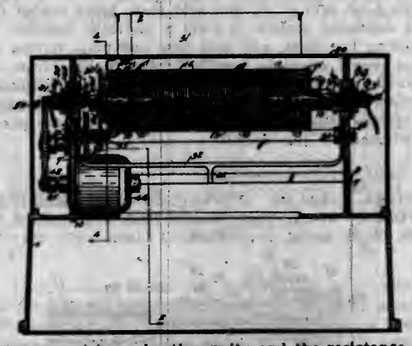


1. In a signalling system, a first station, a second station including a switch comprising a bank of contacts, a movable member comprising a bank of contacts each of which is connected to an individual contact on said switch, means for moving said member in accordance with a variable quantity, a contact member arranged to wipe over said movable member contacts, means for moving said movable contact member in accordance with a second variable quantity whereby said contact member will engage one of said movable member contacts depending upon both of said variable quantities and a code transmitter means including circuit connections between said switch bank and said movable member for transmitting a code combination of impulses to said first station in accordance with the contact engaged by said contact member.

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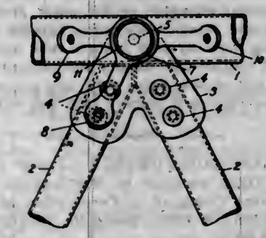
1,691,361. TOASTER. EDMUND W. ROBERTS, Cincinnati, Ohio. Filed June 6, 1927. Serial No. 196,733. 17 Claims. (Cl. 219—19.)

5. A toaster comprising cylindrical rollers in parallel, shells of heat conducting material comprising the peripheral surface of the rollers, cores within the shells comprised of insulation of low heat conductivity, spindles in the cores and projecting from the ends thereof, the spindles of conducting material as metal, screws crosswise of the spindles and threaded therein, the screws passing into the spindles through the cores, a helix of resistance conductor comprising a heating unit; and the resistance conductor in electrical connection with the spindles through the screws.



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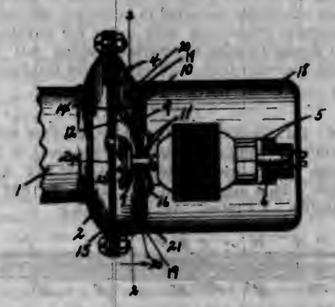
1,691,362. SKELETON STRUCTURE SUCH AS AIRCRAFT FUSELAGES. FREDERICK SIGRIST, Oxshott, and SYDNEY CAMM, Long Ditton, England. Filed June 15, 1927, Serial No. 198,951, and in Great Britain Mar. 31, 1927. 12 Claims. (Cl. 244—31.)



12. A skeleton structure such as a fuselage for aircraft comprising a metal tubular member, another metal tubular member with its end abutting against the first mentioned member intermediate of the ends of said first mentioned member to constitute a joint therewith, the said members being provided with flats at the joint, a clamping plate engaging the flats and fastening means extending through the plates and the tubular members meeting at the joint.

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1,691,363. SIGNALING DEVICE. WILLIAM SPARKS, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a Corporation of Ohio. Filed Mar. 20, 1924. Serial No. 700,504. 5 Claims. (Cl. 177—7.)

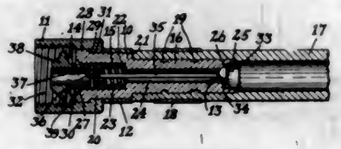


5. A horn comprising an armature shaft, a rear diaphragm case section having a base provided with a depressed portion formed with an opening for the passage of

said shaft, a plate rigidly secured to the case section and including a hardened cylinder alined with the opening in the depressed portion and which constitutes the forward bearing for said shaft, and said plate being spaced from said depressed portion to form a lubricant chamber surrounding the shaft, and said base and plate having portions spaced apart to form a conduit leading from said lubricant chamber to the edge of the base for conveying lubricant to said chamber, and said case section having an opening alined with said conduit to permit the passage of lubricant to the conduit.

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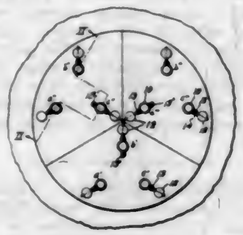
1,691,364. VALVE CONNECTER FOR DELIVERY TUBES. ROY W. TADD, Walnut Park, Calif. Filed Apr. 18, 1027. Serial No. 184,609. 1 Claim. (Cl. 284—18.)



In a device of the character described, the combination, with the valve tube, and valve at the inner end of said tube; of a contact tube extending into the outer end portion of said valve tube and in axial alinement with the latter, the external diameter of the portion of said contact tube which is within said valve tube being slightly less than the internal diameter of the outer portion of said valve tube, there being co-operating beveled seating surfaces co-acting between said contact tube and valve tube to center said contact tube loosely and concentrically within the outer end of said valve tube, and a connecting rod connecting together said contact tube and valve.

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1,691,365. ELECTRIC FURNACE. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 19, 1927. Serial No. 162,013. 5 Claims. (Cl. 266—1.5.)



1. In an electric arc furnace, a plurality of heating units comprising electrodes mounted in operative relation, means for electrically connecting said units for parallel operation, and means forming a separate heating unit composed of a single electrode from each of the first mentioned heating units.

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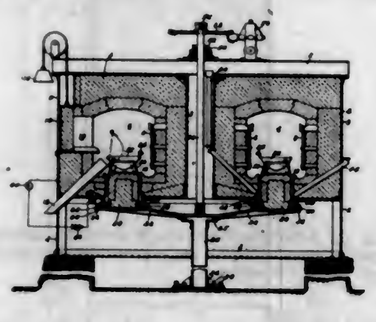
1,691,366. IMAGE-MODIFYING APPARATUS FOR PHOTOGRAPHY. ADELBERT AMES, Jr., Hanover, N. H. Continuation of application Serial No. 351,012, filed Jan. 17, 1920. This application filed June 1, 1923. Serial No. 642,754. 8 Claims. (Cl. 95—81.5.)



1. An absorption screen for use in photography comprising a color absorption element arranged selectively to absorb more light of the same color at one part of the image than at another part of the image, and a corrector element adapted and arranged to absorb a compensating amount of the light transmitted by the respective parts of the absorption screen.

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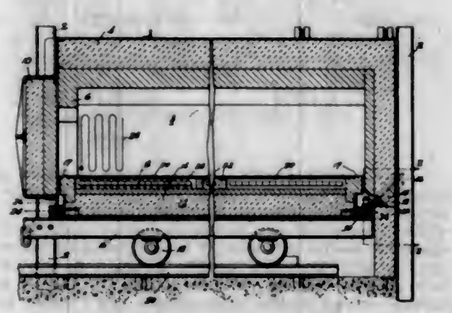
1,691,367. ROTARY-HEARTH FURNACE. JOHN F. BAKER, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 18, 1927. Serial No. 199,691. 6 Claims. (Cl. 263—7.)



1. In a rotary-hearth furnace, the combination with an annular furnace chamber and an annular hearth projecting through the bottom wall thereof, of means for rotatably supporting said hearth in operative position, and means permitting the lowering of said hearth out of engagement with the furnace, thereby affording ready access to said furnace chamber.

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1,691,368. CAR-BOTTOM FURNACE-HEARTH SEAL. JOHN F. BAKER, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 25, 1927. Serial No. 201,420. 7 Claims. (Cl. 263—28.)

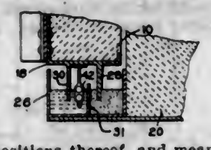


2. In a car-bottom furnace, the combination with a furnace chamber and a horizontally removable hearth, of a seal between the rear edge of said hearth and an adjacent wall of said chamber comprising a sand trough carried by said hearth and a flange pivotally secured to said wall, and means responsive to movement of said hearth for moving said flange into operative position with respect to said sand trough.

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1,691,369. FURNACE. JOHN F. BAKER, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 14, 1927. Serial No. 205,557. 8 Claims. (Cl. 266—5.)

1. In a furnace, the combination with a hearth, a plurality of furnace walls and means permitting a relative vertical movement therebetween, of means for providing liquid and sand seals between said hearth and walls in



the operative positions thereof, and means for artificially cooling said seals to prevent the evaporation of liquid from said sealing means.

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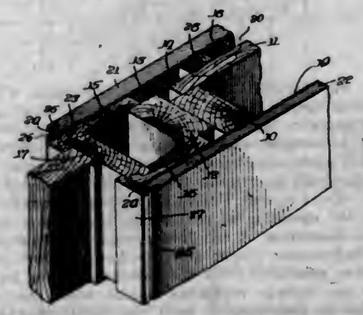
1,691,370. DOOR. ALLAN S. BARROWS, Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 27, 1924. Serial No. 722,761. 11 Claims. (Cl. 189—46.)



1. In a door, the combination with a plurality of sheet metal plates, having their adjacent edges over-lapping and joined together, the over-lapping edges at each joint between the sheets being offset outwardly from the main body portion of the sheets; of a strip reinforcing each of said offset joint portions and corresponding in section thereto; and a second reinforcing strip spanning each offset joint and rigidly secured to the body portions of the corresponding plates.

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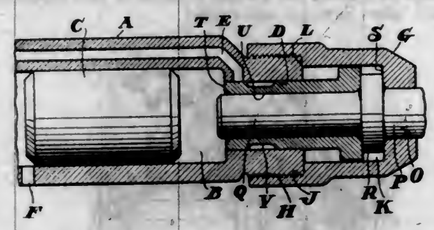
1,691,371. FRAME CONSTRUCTION. ISAAC A. BAUM, Chicago, Ill. Filed July 5, 1927. Serial No. 203,384. 3 Claims. (Cl. 20—11.)



1. In a wall having an opening, the combination of a stud, sheathing secured thereto, a cripple stud arranged in staggered relation to the stud with one face flush with the exterior face of the sheathing, and blind stops secured to the opposite outer faces of the cripple stud.



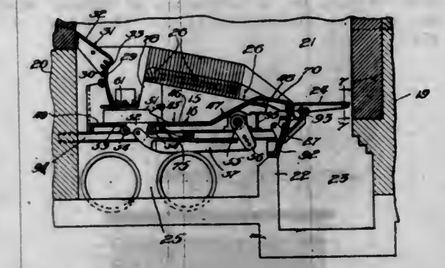
1,691,372. PNEUMATIC TOOL. LEWIS C. BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 16, 1927. Serial No. 175,781. 2 Claims. (Cl. 121—11.)



1. In a pneumatic tool, the combination of a cylinder having a reduced bore in its front end, an inlet passage in the cylinder opening into the bore, a hammer piston reciprocable in the cylinder, a working implement extending through the bore to receive the blows of the hammer piston, a slidable bushing in the bore for guiding the working implement, and an annular external groove in the bushing extending into the cylinder to afford communication between the inlet passage and the cylinder in one position of the bushing, said bushing being exposed at one end to pressure fluid in the cylinder whereby it is actuated to another position to cut off communication between the inlet passage and the cylinder upon the cessation of resistance to the working implement, thus preventing reciprocation of the hammer piston.

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1,691,373. UNDERFEED STOKER. ROYCE L. BEERS, Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed June 16, 1922. Serial No. 568,797. 10 Claims. (Cl. 110—44.)



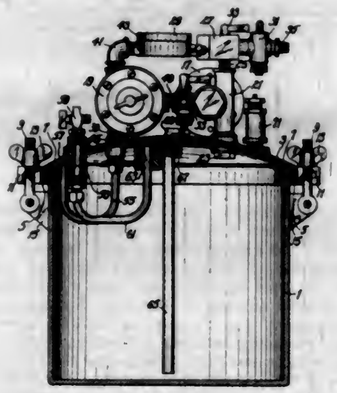
5. In a stoker structure of the character described, the combination of a plurality of lateral retorts arranged side by side, a main retort crossing the inner ends of said lateral retorts in arrangement to deliver fuel thereto, said main retort having along its side at places directly opposite the said lateral retorts overhanging portions disposed to direct up-thrust fuel toward the respective lateral retorts, and means for feeding fuel longitudinally of the main retort and causing up-thrust of fuel.

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1,691,374. PAINTING APPARATUS. THEODORE BIRKENMAIER, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 18, 1924. Serial No. 744,335. 6 Claims. (Cl. 91—45.)

5. In a pressure paint vessel comprising a pot and cover, the provision in combination of a pressure regulator on said cover adapted to regulate the pot pressure, a blow-off cock on said cover, blind holes on the inside of said cover, pipes within said pot and on said cover connected with said cock and regulator respectively and extending

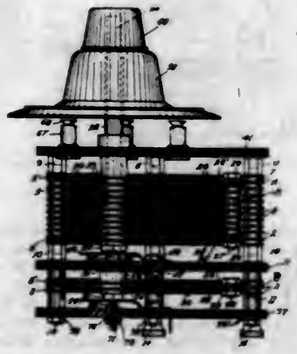
into said holes for the purpose of preventing passage of paint to the cock or regulator, an air manifold on said cover and another regulator therefor, means for drawing paint from the bottom of said pot through said cover, means for reading the low-side pressure of each regulator and a safety valve on said cover.



6. The pressure vessel comprising a pot, a removable cover therefor, at least one accessory connected to said cover for functioning with air, at least one tubular portion leading from said accessory to within the vessel and at least one blind hole provided within said cover for receiving one end of said tubular portion, the cover accessory and tubular portion being movable as a unit.

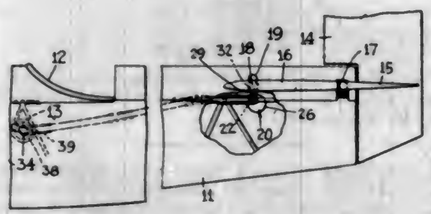
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1,691,375. CONDENSER. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 29, 1923. Serial No. 615,501. 17 Claims. (Cl. 175—41.5.)



1. In a device of the character described, including a plurality of stationary members, a plurality of movable members positioned parallel to said stationary members, and operatively associated with said stationary members, a shaft for said movable members and adapted to move in a rotary and longitudinal direction, spring means for opposing longitudinal movement of said shaft and for restoring and retaining said shaft in a normal endwise position, and adjustable means for limiting the longitudinal movement of said shaft to prevent engagement of said movable members with said stationary members, and insulation means secured between some of the said plates to prevent the contactnal engagement of said movable and said stationary plates when said shaft is moved in a rotary direction.

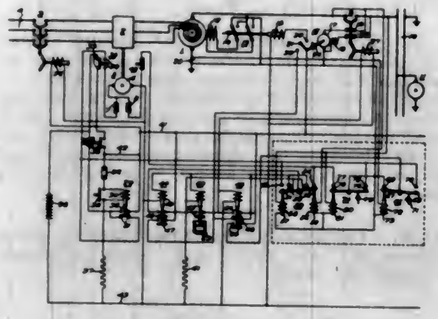
1,691,376. STABILIZER-ADJUSTING MECHANISM. DANIEL J. BRIMM, Jr., West Hempstead, N. Y., assignor to Ireland Aircraft Inc., a Corporation of New York. Filed Mar. 10, 1927. Serial No. 174,215. 2 Claims. (Cl. 244—29.)



1. The combination, in an aeroplane, of a fuselage skeleton including a horizontally extending upper cross-frame member, an adjustable horizontal stabilizer mounted above said fuselage skeleton and including as a structural element thereof a beam, a fitting mounted on said beam directly above said cross-frame member, a sleeve mounted for rotation on said frame member, an eccentric and a sprocket carried by said sleeve, a band loosely encircling said eccentric, ears formed upon said band, a direct pivotal connection between said ears and said fitting, and means engaging said sprocket to rotate said sleeve and said eccentric to thereby adjust the stabilizer.

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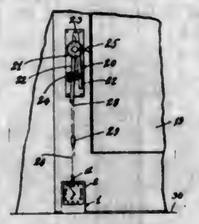
1,691,377. AUTOMATIC STATION. CHARLES A. BUTCHER, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 18, 1927. Serial No. 176,450. 10 Claims. (Cl. 171—118.)



2. In an electrical system, the combination with an alternating-current circuit, a direct-current circuit and a rotary converter for translating energy therebetween, of a cicuit interrupter and a voltage regulating device between the alternating-current circuit and the rotary converter, a circuit interrupter between the rotary converter and the direct-current circuit, switching means for controlling the operation of the circuit interrupters to control the conenction of the rotary converter between the alternating-current circuit and the direct-current circuit, and means associated with the switching means for controlling the voltage regulating means when the rotary converter is disconnected from the alternating-current circuit and the direct-current circuit to cause said voltage regulating means to be actuated to such position that minimum voltage will be applied to the rotary converter when it is again connected to the alternating-current circuit.



1,691,378. ALARM APPARATUS. SARAH E. CHENEY, Los Angeles, Calif. Filed Apr. 12, 1927. Serial No. 183,137. 4 Claims. (Cl. 116—94.)



1. In an alarm apparatus for giving an alarm upon the moving of a part barring entrance to a room, the combination of a freely movable alarm device resting upon, but unattached to, the floor below the said part, a movable member associated with the alarm device for releasing the same, and an adjustable connection between the said movable member and the said part or sash and connecting the same, operating to move the movable member when the said part is moved, and thereby pull up on said movable member to release the alarm.

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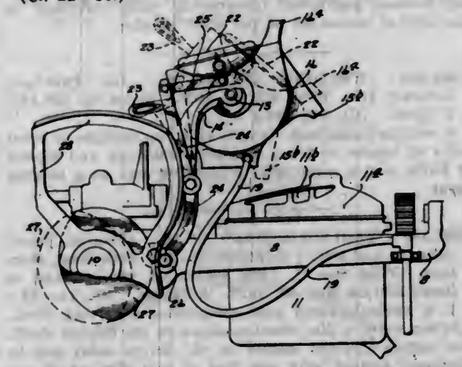
1,691,379. SHIPPING COVER BAG. ANDREW CHRIST, Jr., Chicago, Ill. Filed Dec. 5, 1924. Serial No. 754,024. 1 Claim. (Cl. 135—1.)



A protective cover for automobiles comprising a hood to surround the automobile and formed from a plurality of crepe paper sheets joined together, and a flexible element arranged between the meeting edges of the sheets and extending longitudinally of the sheets and acting to cause the cover to stand out from the automobile.

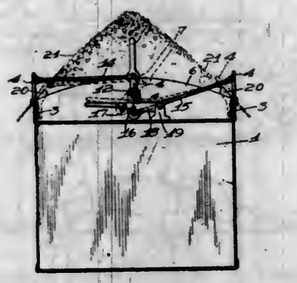
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1,691,380. AUXILIARY MELTING POT FOR LINOTYPE MACHINES. GEORGE LOUIS CURLE, Minneapolis, Minn. Filed Sept. 17, 1927. Serial No. 220,263. 10 Claims. (Cl. 22—80.)



1. The combination with a main pot, of an oscillatory auxiliary pot arranged to tilt for discharge into said main pot, and automatic means for oscillating said pot and for controlling the discharge therefrom into said main pot, according to the variations in the level of molten metal in said main pot.

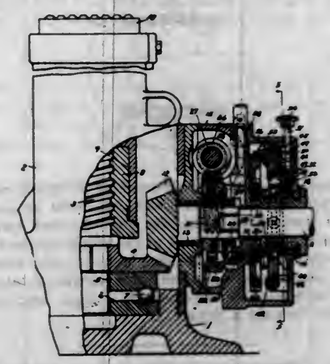
1,691,381. LOCOMOTIVE TENDER. FREDERICK DARBY, Chicago, Ill. Filed Aug. 29, 1927. Serial No. 216,257. 5 Claims. (Cl. 105—237.)



1. A locomotive tender having a coal hopper, hinged extensions carried by the sides of the hopper at the upper edges thereof, and means for swinging said extensions inwardly at an angle to the sides and for swinging said extensions into substantially vertical alignment with the sides.

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1,691,382. LIFTING JACK. JAMES C. DAWLEY, CHARLES D. DERBY, and ALBERT G. KILIAN, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed June 19, 1924. Serial No. 721,117. 16 Claims. (Cl. 254—103.)



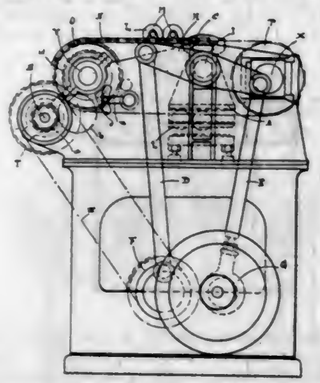
1. In a lifting jack, a lifting element, mechanism comprising an actuating member for operating said lifting element and elevating a load, mechanism to control the downward movement of said lifting element, and means for connecting said actuating member with said controlling mechanism to so actuate the latter that the lifting element will move downwardly, said actuating member being movable in one direction to elevate the load and being movable in the other direction to lower the load.

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1,691,383. TYPOGRAPHICAL PRINTING MACHINE. PAUL ANDRÉ CAMILLE DUWOOS, Rouen, France. Filed Aug. 5, 1926, Serial No. 127,456, and in France Aug. 8, 1925. 3 Claims. (Cl. 101—304.)

1. In a platen typographical printing machine, the combination with the general printing mechanism, of an inking device, comprising paste contact rollers, a chain carrying said rollers, means for imparting a uniform rotary movement around the platen of the machine to the same, a suitably arranged inking table over which said rollers are moved to be charged with ink, and a form secured below

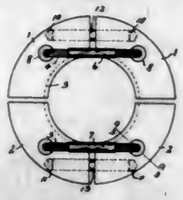
the platen intended to be inked by said rollers, and means for actuating the platen of the machine comprising two connecting-rods, a crank-disc and a cam-disc actuating



said connecting rods, a cross-bar pivoting around a pin on the platen, said connecting rods being pivotally connected to the ends of said cross-bar, substantially as set forth.

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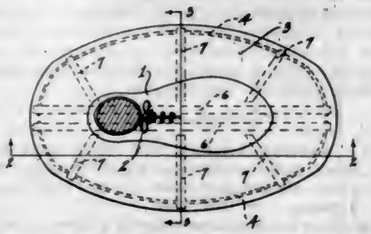
1,691,384. PIPE-ENGAGING SLIP. CHARLES R. EDWARDS and SETH EVANS, Houston, Tex. Filed May 7, 1921. Serial No. 467,690. 7 Claims. (Cl. 24—263.)



1. A pipe engaging slip, whose outer periphery converges downwardly formed of two sections, each section being formed of jaws whose sides have aligned bores, and bearing rods wheron each of the jaws of the respective sections are slidably mounted, the respective ends of said rods fitting into the corresponding bores, and means retaining the jaws of each section together as a unit, said retaining means also forming a handle.

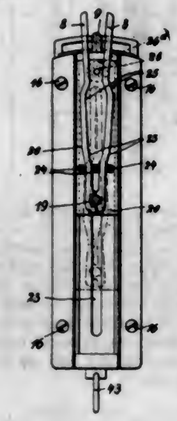
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1,691,385. SWIMMING SHOE. AUGUSTUS F. FIBIGER, Spokane, Wash., assignor of one-tenth to Harve H. Phipps and Elmer J. Edwards, Spokane, Wash., and five-tenths to Charles Fibiger, trustee. Filed Feb. 6, 1928. Serial No. 252,082. 2 Claims. (Cl. 9—21.)



2. A swimming shoe having a web extending therefrom, a pair of longitudinally extending spaced resilient blades embedded in the web to permit the web to flex along its longitudinal center, and wire reinforcing elements along the side edges of the web having their ends connected to an adjoining resilient blade.

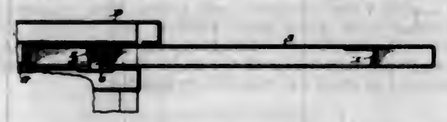
1,691,386. SURGICAL INSTRUMENT FOR MAKING LIGATURES. BERTRAM FISHER, Charlottenburg, near Berlin, Germany, assignor to Paul Rosenstein, Berlin, Germany. Filed Apr. 12, 1927, Serial No. 183,116, and in Germany Apr. 16, 1926. 9 Claims. (Cl. 128—355.5.)



1. A surgical instrument for making ligatures, comprising in combination a casing, a forceps and a plurality of knotting stretchers operatively mounted in the casing, and a common actuating means for successively operating the forceps and the individual stretchers.

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1,691,387. EXTENSION SHELF FOR DESKS. JASON A. FITCH, Youngstown, Ohio, assignor to The General Fireproofing Company, Youngstown, Ohio, a Corporation of Ohio. Filed Aug. 16, 1924, Serial No. 732,467. Renewed May 10, 1928. 7 Claims. (Cl. 45—6.)



6. A stop construction for sliding metal extension shelves consisting of relatively fixed and movable members adapted to engage to limit the movement of the shelf, and one of said members being a coiled spring under tension positioned transversely with reference to the path of movement of the other member.

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1,691,388. WELDING COMPOUND. IRA FREEMAN, Cataract, Ind. Filed May 10, 1926. Serial No. 108,167. 1 Claim. (Cl. 148—26.)

A welding compound, comprising a dry mixture of equal parts by volume of borax, powdered charcoal, and plaster of Paris, and a solution of silicate of soda as a binding agent.

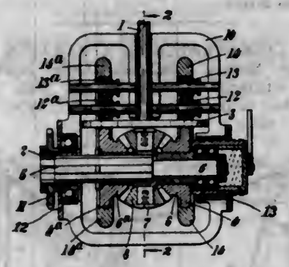
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1,691,389. VARIABLE-SPEED GEAR. CHARLES RILEY GARRARD and ERNST GOTTLIEB FAUSER, Sydenham, England. Filed Mar. 8, 1928, Serial No. 260,144, and in Great Britain Mar. 25, 1927. 6 Claims. (Cl. 74—34.)

1. A variable speed gear comprising a driving shaft, a driven shaft, a disc wheel mounted on the driving shaft, two rollers mounted loosely on the driven shaft and in frictional contact with one face of said disc wheel one on each side of the axis of said wheel said rollers being free to traverse the face of the disc wheel, an epicyclic gear coupling said two rollers together the primary wheels of said gear being respectively in couple with one of said rollers and the element of said gear carrying the planet wheels being mounted on the driven shaft, two auxiliary



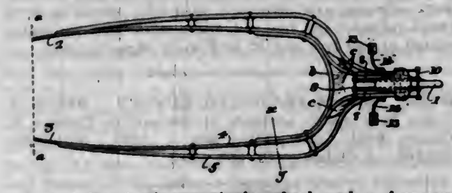
rollers in frictional contact with the other face of the disc wheel, two intermediate rollers in frictional contact with the auxiliary rollers, a loose binding ring encircling



the main rollers and the auxiliary rollers, and means for traversing the epicyclic gear and the main rollers transversely relative to the face of the disc wheel.

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1,691,390. SULKY. HERBERT WILMER HANAN, Brooklyn, N. Y. Filed Oct. 3, 1924. Serial No. 741,394. 19 Claims. (Cl. 280—78.)

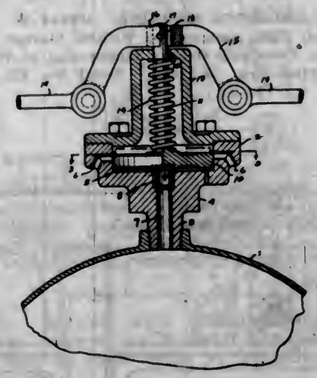


1. A sulky having a single wheel and a framework comprising shafts and a body supported by the said wheel, each shaft being made up of a plurality of spaced members, of which at least one lies outside the plane of the others.

10. In a sulky shaft the combination with a plurality of substantially similarly shaped members, of a plurality of spreading devices adapted to hold the said members in fixed relation to each other, a cross-section of the shaft being substantially triangular.

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1,691,391. AIR-RELEASE VALVE. GUY F. HITCHCOCK, Houston, Tex., assignor, by direct and mesne assignments, of one-third to Joe L. Tomlinson and one-third to Thomas H. Meeks, Harris County, Tex. Filed Apr. 16, 1926, Serial No. 102,373. Renewed Aug. 27, 1928. 8 Claims. (Cl. 303—80.)



3. A valve including a valve body formed with a cylinder and having a pressure relief conduit entering the cylinder and a pressure relief port leading from said cylinder, a bearing member fastened on said body having a bearing, a plunger in the cylinder adapted to close said port, a valve carried by the plunger adapted to close said conduit, a stem connected to the cylinder and working through said bearing, a yieldable member interposed between said bearing member and plunger, a yoke above the cap and having a pivotal connection with said stem and operating rods pivoted to the respective ends of said yoke.

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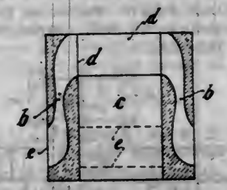
1,691,392. CLAMP. BROR W. JOHNSON, Fertile, Minn. Filed Mar. 16, 1928. Serial No. 262,206. 1 Claim. (Cl. 24—81.)



In a clamp, a channel shaped bar, the sides thereof being cut away at its respective ends to form stationary jaws, said ends of the base of the channel shaped bar being curved upwardly to form lips, channel shaped members having each their sides tapering gradually from the center of the member to the respective ends thereof to form a jaw at one end of said member, and a handle at the other end, the sides of each member being disposed within the respective sides of the channel shaped bar, a pin extending through registering openings in the sides of each channel shaped bar inwardly of the stationary jaw and through the intermediate portions of the sides of the members whereby said members being pivoted on said bars, the jaw formed ends of the pivoted members being formed with inwardly curved lips at the extremities of the base portion of the channel shaped member for cooperation with the aforementioned lips, and tensional means for maintaining the jaws in a closed position.

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1,691,393. STATIONARY COWL WITH WIND CHANNELS. JOHANN KAMPS, Dislaken-Eppinhoven, Germany. Filed Aug. 20, 1927, Serial No. 214,414, and in Germany Jan. 28, 1927. 1 Claim. (Cl. 98—66.)



A stationary cowl formed integral with a chimney, said cowl having inwardly and upwardly extending wind-channels extending therethrough, the outer and inner orifice of each channel being of the same width, each channel being substantially S-shaped and tapering uniformly from both ends toward the middle and having uniform width coextensive with the width of the smoke channel.

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1,691,394. SANITARY PRESERVING FOOD CONTAINER SUCH AS CANS OR BOXES OF ANY SHAPE. HEINRICH KARL, Jersey City, N. J. Filed Feb. 13, 1924. Serial No. 692,524. 3 Claims. (Cl. 22—53.)

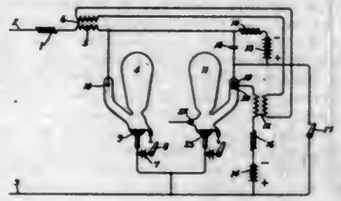


1. In a container including a cover, a part made of sheet metal and serving for uniting said cover with said container and for hermetically closing the container by

means of a binder, and being positioned more or less remote from the opening of the container, said part having incisions which are made so that there is always a flap left between two of said incisions, these so formed flaps placed close to the container when it is closed but so that they do not grip or exert pressure whatsoever thereupon or to said cover, the binder applied at the inner side of said part in such manner that said flaps are left free from binder, said flaps adapted to be pulled outwardly to such an extent with the fingers or with some tool that the portion of said part to which the binder is applied will be pulled away from the container and thereby ruptured and said binder broken or separated therefrom thus permitting the removal of the cover from the container without causing particles of the sheet metal or particles of the binder to fall into the contents of the container.

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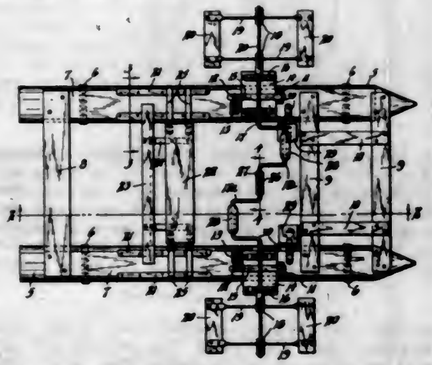
1,691,395. CIRCUIT-CONTROL APPARATUS. IRVING LANGMUIR, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 16, 1926. Serial No. 129,380. 6 Claims. (Cl. 175—320.)



6. An apparatus comprising an anode and a cathode, a grid for controlling the starting of current between said cathode and anode, an energy storage element, a space discharge device, an electrode connected to said anode through said element and a grid connected to said cathode for controlling the current between said electrode and cathode, and means operable to control the potentials of said grids in accordance with an electrical condition of said anode.

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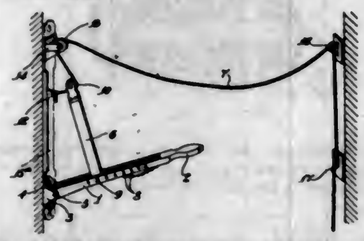
1,691,396. PADDLE BOAT. FRANK A. LINDSTROM, St. Paul, Minn. Filed Oct. 29, 1927. Serial No. 229,614. 2 Claims. (Cl. 115—23.)



1. A paddle boat having in combination a pair of floats secured together in spaced relationship, a slotted keeper mounted on each float, an eye mounted on each float, a latch mounted on each float and adapted to be releasably engaged in one of said eyes, a bearing adapted to be placed on each float between the keeper and the eye thereon, a U-shaped bar for each float having one end adapted to be placed within the slot in one of said keepers and another hasp like end adapted to be fitted over one of said eyes, said bar being adapted to fit over one of said bearings and to be held in place by one of said latches, a crank shaft journaled in each bearing and having a crank portion adapted to extend inwardly from its respective float and a portion extending outwardly therefrom, a paddle wheel secured to the outwardly extending portion of each crank shaft and a seat adapted to be secured rearwardly from said crank shafts between said floats.

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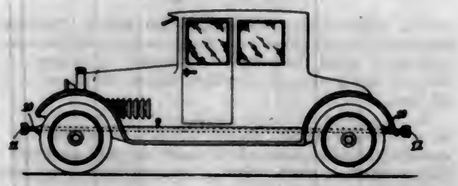
1,691,397. LINE-STRETCHING APPARATUS. DOROTHY LOCKWOOD, Merton Park, and ALFRED JAMES SEARLE, London, England. Filed Dec. 31, 1926, Serial No. 158,358, and in Great Britain Jan. 27, 1926. 3 Claims. (Cl. 254—135.)



1. A line stretching apparatus comprising a U-shape bearing bracket adapted to be fixed to a support, a split operating lever pivoted between the sides of said bracket, a work engaging arm pivoted in said split operating lever between its pivot and free end, and a work engaging pulley mounted at the free end of said work engaging arm.

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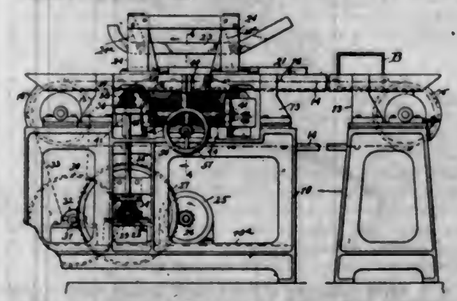
1,691,398. SHOCK-ABSORBING BUMPER. MELVIN J. LONG, Brea, Calif., assignor of one-half to Thomas H. Cooper, Brea, Calif. Filed Mar. 1, 1928. Serial No. 258,160. 3 Claims. (Cl. 293—30.)



3. In a device of the class described, the combination, with the frame and emergency brakes of a vehicle; of an impact bar, a thrust bar in operative relation to said impact bar, a collar on said thrust bar, an upright lever having a bifurcated upper portion which includes said thrust bar and is in an operative relation to said collar, and means operatively connecting said lever with the aforementioned emergency brakes.

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1,691,399. BRUSHING MACHINE. HENRY W. LORMOR, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Feb. 26, 1923. Serial No. 621,256. 4 Claims. (Cl. 15—21.)

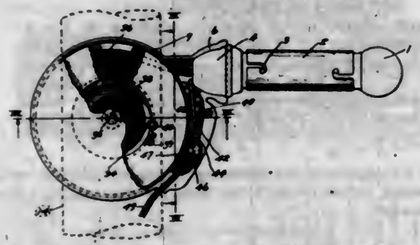


1. In a machine of the character described, a platform along which the articles to be brushed are moved, a brush projecting through the platform, and a vertically movable gravity actuated depressor under which the articles move and which serves to hold the articles down against the brush during the brushing operation.

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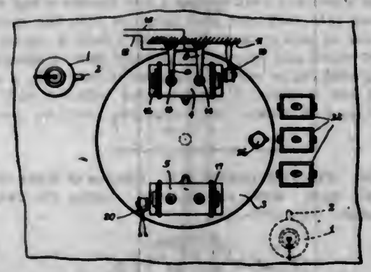
1,691,400. SIGNALING DEVICE. MALCOLM E. MITCHELL, Alameda, Calif., assignor of one-half to David Garfinkle, Alameda, Calif. Filed Jan. 12, 1925. Serial No. 2,001. 5 Claims. (Cl. 200—153.)



2. In a signaling device, a casing comprising two sections, a central hub extending from one of the sections toward the other and a screw bearing on the latter and threaded into the hub for holding the sections together and a drum comprising a disc having a central portion depressed to form a recess on one side, and a cylinder on the opposite side, and having a central sleeve, extending from said depression adapted to revolve on the hub, a second flat disc fastened to the depressed section, with insulating material interposed between the discs, a spring in the recess connecting the recessed disc to the hub, a cord wound on the cylinder between the peripheral portions of the discs, having two wires connected to the two discs respectively, a seat formed in the casing, a signaling element connected to the wires and adapted to be seated on said seat by the action of the spring and a contact lever pivoted in the casing and spring-actuated to normally contact one of the discs, and extending into the path of the signaling element moving toward its seat for breaking the contact.

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1,691,401. ART OF USING DIRECT METAL FROM BLAST FURNACES. RICHARD MOLDENKE, Watchung, N. J., assignor to New Process Multi-Castings Company, Irvington, N. J., a Corporation of New Jersey. Filed Dec. 19, 1924. Serial No. 756,873. 5 Claims. (Cl. 75—22.5.)



1. The method of preparing iron for pouring into molds which comprises melting a charge in a blast furnace, and pouring the melt into an electric furnace and mixing it therein with molten iron whose composition has been regulated in accord with the finished composition of the melt.

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1,691,402. MEANS FOR SEALING EXPANSION JOINTS. EUGENE ROBERT ODEN, Lankershim, Calif. Filed Sept. 29, 1926. Serial No. 138,457. 5 Claims. (Cl. 72—106.)

5. A cement reservoir including a recessed slab walled construction, the recess closed at its bottom and opening to the interior of the reservoir, a non-hardening filler in the recess, and a flexible covering impervious to the action of water, spanning the opening of the recess and arranged in intimate contact with said filler so that upon contraction



of the slab walled construction, the weight of water within the reservoir will act upon the covering to compress the filler in the recess and maintain the latter watertight.

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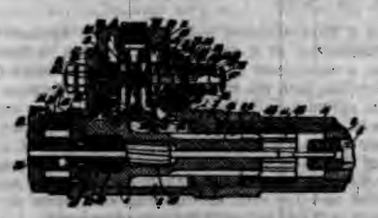
1,691,403. JAR LID. FRANK O'NEILL, Toledo, Ohio. Filed Aug. 21, 1923. Serial No. 658,488. 1 Claim. (Cl. 215—97.)



A glass jar having an opening provided with an overhang thereabout, said overhang forming a flat seat about the opening and having multiple thread portions for the full transverse extent thereof, a gasket of seat width, a glass lid on said gasket extending over said seat for fully confining the gasket width between said seat and lid, said lid having a depending portion enterig the jar to center the gasket and lid therewith, and a sealing band of ring form embracing the lid, gasket and overhang, said sealing band having marginally inwardly extending flange portions, one engaging the lid to hold the lid against the gasket and the other providing inwardly extending tongues coacting with said thread portions of the overhang to form therewith a bayonet joint permitting angular shifting of the sealing band relatively to the jar in one direction for drawing the lid against the gasket and in the other direction for releasing the lid and band from the jar for opening the jar, said band between said marginal flange portions being clear for readily locating the lid and gasket on the jar opening seat.

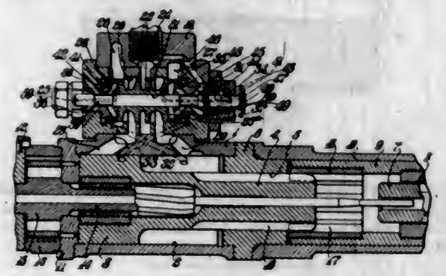
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1,691,404. DRILLING MECHANISM. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 7, 1927. Serial No. 181,808. 15 Claims. (Cl. 121—6.)



1. In a fluid actuated rock drill of the hammer type, the combination of a cylinder and piston reciprocable therein, a valve chest, and a fluid distribution valve therein controlling both the supply and exhaust of pressure fluid for said cylinder, valve throwing passages between opposed spaces in the valve chest and the cylinder bore for supplying pressure fluid for throwing said valve, and manually operable means for initially admitting pressure fluid to one of said valve chest spaces whereby the pressure tending to throw the valve is counteracted and for thereafter directly engaging the valve to shift and hold the same immovable.

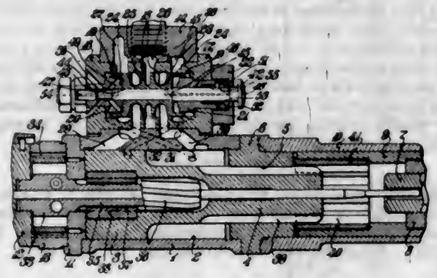
1,691,405. ROCK DRILL. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 2, 1927. Serial No. 196,108. 14 Claims. (Cl. 121—6.)



1. In a fluid actuated rock drill of the hammer type, the combination of a cylinder and a piston reciprocable therein, a valve chest and a fluid distributing valve therein controlling both the supply and exhaust of pressure fluid for said cylinder, valve throwing passages between opposed spaces in the valve chest and the cylinder bore for supplying pressure fluid for actuating said valve, and a hole blowing device comprising a member arranged coaxially with said fluid distributing valve, valve means controlled by movement thereof for admitting pressure fluid to one valve chest space and valve means also controlled by movement of said member for venting the opposed space to atmosphere whereby said distributing valve is pneumatically held immovable to effect a hole blowing operation.

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1,691,406. ROCK DRILL. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 2, 1927. Serial No. 196,110. 10 Claims. (Cl. 121—6.)

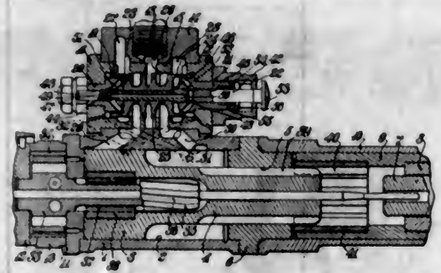


1. In a fluid actuated rock drill of the hammer type, the combination of a cylinder and a piston reciprocable therein, a valve chest and a fluid distributing valve therein controlling both the supply and exhaust of pressure fluid for said cylinder, valve throwing passages betwen opposed spaces in the valve chest and the cylinder bore for supplying pressure fluid for actuating said valve, and a hole blowing device including means for venting the space at one end of the valve to atmosphere during a hole blowing operation and for directly engaging said valve to shift it toward said end and hold the same immovable.

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1,691,407. ROCK DRILL. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 2, 1927. Serial No. 196,109. 14 Claims. (Cl. 121—6.)

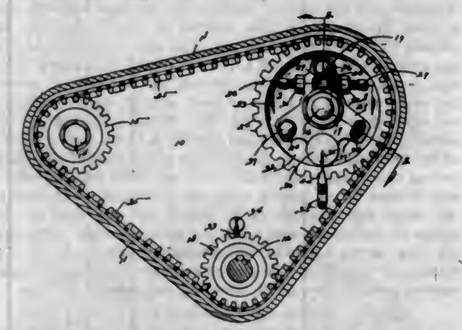
1. In a fluid actuated rock drill of the hammer type, the combination of a cylinder and a hammer piston reciprocable therein, a valve chest and a fluid distributing valve therein controlling both the supply and exhaust of pressure fluid for said cylinder, valve throwing passages between opposed spaces in the valve chest and the cylinder bore for supplying pressure fluid for actuating said valve, and manually operable valve means to establish communication between the valve chest spaces at the opposite ends of the



valve for equalizing the pressures and means movable with said valve means to shift and hold the distributing valve immovable.

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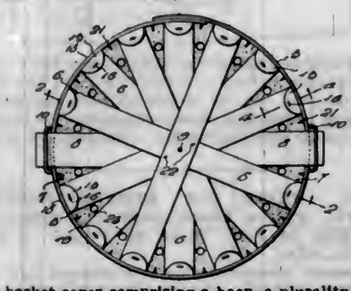
1,691,408. TIMING DEVICE. WALTER TUTTLE PALMER, Des Moines, Iowa. Filed Mar. 18, 1927. Serial No. 176,571. 2 Claims. (Cl. 74—7.)



1. In a device of the class described, a shaft, a sprocket wheel permanently secured to said shaft, a mark on said sprocket wheel, a fixed pointer adjacent said sprocket wheel, a second shaft, a hub member permanently secured to said shaft, a sprocket wheel rotatably mounted on said hub member, projections on said hub member adjacent said sprocket wheel and each having a slot therein a cap screw extending into each slot and threaded into the sprocket wheel, one of said projections having a hole, a lug on said sprocket wheel and extending into said hole, a means for securing said lug in various positions in said hole, a mark on said hub member, a fixed pointer adjacent said hub member, and an endless chain engaging said two sprocket wheels.

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1,691,409. FRUIT-BASKET LID. GEORGE O. RESHAW, St. Joseph, Mich. Filed Jan. 5, 1928. Serial No. 244,737. 4 Claims. (Cl. 217—124.)

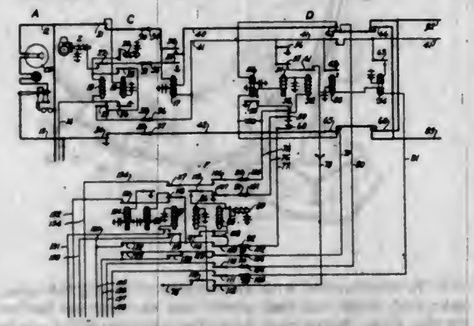


1. A basket cover comprising a hoop, a plurality of slats having their ends turned downwardly and disposed at the inner side of said hoop, a yieldable liner covering the lower sides of said slats and having a downwardly turned edge contacting with the inner sides of said downwardly turned slat ends, and fasteners passing through said hoop, said slat ends and said liner edge; said downwardly turned liner edge constituting a washer between which and said hoop said slat ends are securely held.

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1,691,410. AUTOMATIC TELEPHONE SYSTEM. RODNEY G. RICHARDSON, Chicago, and MARTIN L. NELSON, Park Ridge, Ill., assignors, by mesne assignments, to Automatic Electric, Inc., Chicago, Ill., a Corporation of Delaware. Original application filed Feb. 23, 1922, Serial No. 538,551. Divided and this application filed Aug. 6, 1928. Serial No. 297,609. 175 Claims. (Cl. 179—18.)



1. The combination, with a trunk line and means for transmitting series of impulses thereover, of a line relay in the trunk responsive to said impulses, and means controlled by said line relay and responsive only to entire series of impulses for transposing the conductors of said trunk line after each series of impulses is transmitted.

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1,691,411. TENT. CHARLES C. ROTH and DONALD A. CAMPBELL, Denver, Colo., assignors to The Denver Tent & Awning Company, Denver, Colo., a Corporation of Colorado. Filed Jan. 19, 1924. Serial No. 687,256. 3 Claims. (Cl. 135—15.)



2. A hollow metallic tent pole having an electrical insulating plug at each end.

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1,691,412. TOWEL SUPPORT. AUGUST RUETZ and ROBERT G. DALLMANN, Milwaukee, Wis. Filed Mar. 10, 1927. Serial No. 174,238. 3 Claims. (Cl. 211—87.)

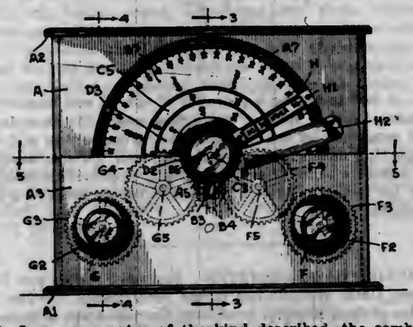
1. Means for supporting a towel which has been gathered together laterally and folded upon itself between its ends, comprising an attaching member, a stationary loop projecting outwardly from said member in a horizontal plane and through which the folded portion of the towel may be passed, said loop being of a size to be substantially filled by the folded portion of the towel within it, and a hook on the member to enter the fold of the towel, said hook



being arranged in closely spaced relation to the loop and projecting outwardly from the member and across the loop, whereby the towel will be gripped by its engagement with the hook and loop and prevented from slipping thereon when its projecting free portions are in use.

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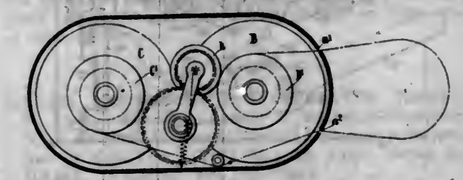
1,691,413. RADIO APPARATUS. ALFRED F. SANFORD, Knoxville, Tenn. Filed Aug. 11, 1925. Serial No. 49,636. 16 Claims. (Cl. 250—40.)



1. In an apparatus of the kind described, the combination with a plurality of tuning shafts on parallel axial lines, of a plurality of parallel members shiftable independently of each other and having record-receiving surfaces near each other parts of the which may be brought substantially into alignment with each other by the shifting of said members, and motion transmitting means connecting each of said shafts with one of said shiftable members, substantially as described.

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1,691,414. CINEMATOGRAPH SPOOLCASE. JOHN EDWARD THORNTON, West Hampstead, London, England. Filed Jan. 26, 1927, Serial No. 163,804, and in Great Britain Jan. 11, 1926. 2 Claims. (Cl. 242—55.)

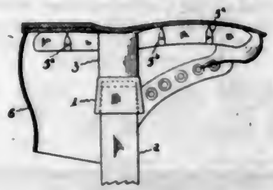


1. A cinematograph film spool case and a film-strip having its film-feed effected and controlled partly inside the spoolcase itself and partly by the camera or projector

mechanism outside the spoolcase, the spoolcase and film-strip comprising in its construction a suitable enclosing case, having openings in one wall thereof, through which the film and its leader-strip can pass out of the case and again into the case forming a loop outside the case between the point of egress and ingress and inside the case two spools to form a supply-spool and a receiving-reel respectively, two feed-controlling leader-strips permanently attached, one to each spool, a film secured by its two ends to the two leader-strips attached to the two spools; the mechanism being rotatable in both directions a first group of pictures being exposed during the forward movement of the film and a second group during the return movement of the film; the spoolcase being adapted to engage with the exposure driving-mechanism, whereby the spoolcase mechanism is driven by the exposnre mechanism in both directions without the operator having to change the spools.

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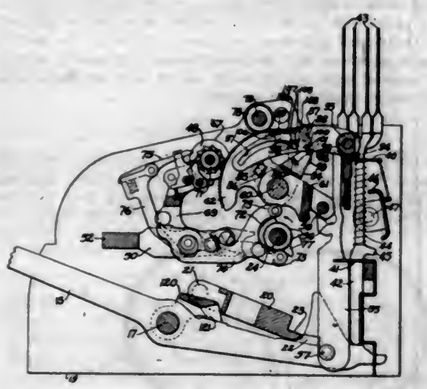
1,691,415. SHOEMAKER'S LAST. JOHN TOOLE, Kirkland Lake, Ontario, Canada. Filed Dec. 19, 1927. Serial No. 241,110. 4 Claims. (Cl. 12—123.)



1. A last including a plurality of spaced sole supporting members having narrow contacting edges for engaging a boot supported by the last; and means connecting said sole supporting members, the spaces between the sole supporting members being of sufficient depth to provide a passageway for the point of a drill used for boring holes in a boot supported on the last.

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1,691,416. CASH REGISTER. EDWARD J. VON PEIN, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Oct. 3, 1919. Serial No. 328,127. 29 Claims. (Cl. 235—14.)



5. In a machine of the class described, the combination of a plurality of totalizers, a group of actuators for each of said totalizers, an operating frame intermediate the actuator of one group and an actuator of the other group, whereby said actuators may be actuated to like extents, and means whereby the actuator of one group may be given an actuation independent of said operating frame.

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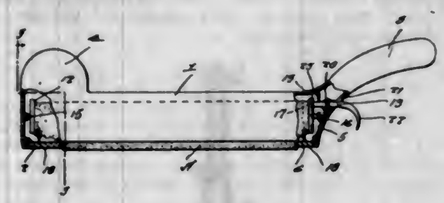
1,691,417. AUTOMOBILE STARTER. THOMAS WARD, New Lexington, Ohio. Filed Sept. 28, 1927. Serial No. 222,657. 2 Claims. (Cl. 200—59.)



1. In combination with an automobile having the usual gear shift lever, starting motor, and an electrical circuit for the motor including a normally open switch, of means mounted on the upper end of the lever and connected with the switch for moving the latter to close the motor circuit, whereby said lever and said switch may be operated simultaneously by the same hand.

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1,691,418. SANDPAPER HOLDER. CHARLES F. WHITE, Detroit, Mich. Filed Apr. 29, 1927. Serial No. 187,621. 1 Claim. (Cl. 51—187.)

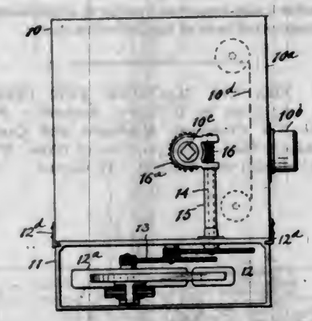


In a device of the class described, an elongated casing having its bottom open, a cover plate of the same length as the casing adapted to be detachably secured on the open bottom of the casing, said cover plate being of width less than the width of the casing whereby the side edges of the cover plate are spaced from the respective sides of the casing to provide passages ,one side of the casing being formed with a longitudinally extending slot adjacent its lower edge, a roller journaled for rotation within the casing, a roll of sand paper wound on the roller, the free end of the sandpaper extending downwardly through one passage, across the bottom of the cover plate, upwardly through the other passage, and then through the slot in the side of the casing, means for holding the free end portion of the sand paper taut, an additional means for locking the roller against rotation, said last mentioned means comprising a disc secured on end of the roller, said disc being formed with a series of radial notches, a pivoted locking dog carried by the adjacent end of the casing, the outer end of said dog extending through a slot formed in said end of the casing, and providing a handle, the inner end of the dog being adapted for cooperation with the notches, and a spring for normally holding the inner end of the dog in engagement with one of the notches.



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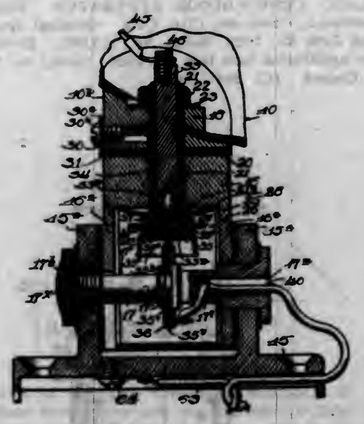
1,691,419. MOTOR ATTACHMENT FOR MOTION-PICTURE CAMERAS. THEODORE A. WILLARD, Cleveland Heights, Ohio. Filed Feb. 10, 1923. Serial No. 618,261. 2 Claims. (Cl. 88—17.)



1. In combination with a motion picture camera having a shaft to which an operating crank is adapted to be applied, a film feeding motor attachment comprising a housing detachably secured to the camera, a gyroscopic electric motor carried within said housing, a shaft mounted on said housing, gearing at one end of said shaft cooperating with the shaft of the crank, and reduction gearing between the other end of the shaft and the motor.

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1,691,420. LIMITED-RANGE SPOTLIGHT. ANDREW C. WOOD, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 5, 1927. Serial No. 188,921. 8 Claims. (Cl. 240—61.)



1. An illuminating device comprising in combination three co-operating members of a light support pivoted successively to one another, the first member being a fixed support, the last member being a lamp body, the axes of the pivotal connections of the second member to the other two being intersecting; a circuit for energizing a lamp to be mounted in the lamp body extending through said three members and comprising annular conductive areas of two of said members extending about the two axes respectively, each of said annular areas having an interruption of limited angular extent at whose coincidence only in the adjustment about said axes, the circuit is interrupted.

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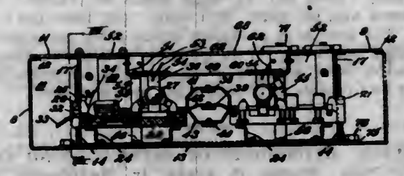
1,691,421. HEATING DEVICE FOR AIR-CIRCULATING FANS. SOCRATES A. XIPPAS, Buffalo, N. Y. Filed Apr. 29, 1927. Serial No. 187,421. 4 Claims. (Cl. 219—19.)



1. An electric heater including a plurality of annular insulating rings, means connecting the rings together, resistance coils associated with the rings, and extending entirely around the heater, one of said rings having its inner surface beveled to permit the same to rest on a substantially spherical surface for supporting the heater.

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1,691,422. PANEL-BOARD BOX. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1921. Serial No. 501,143. 7 Claims. (Cl. 247—10.)



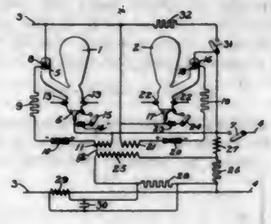
1. A panel board comprising a main housing, a pan within the housing having outwardly extending flanges, panel members mounted on the pan and having a portion thereof overlapping the said flanges, and a wall member of substantially the same contour as the said flanges and disposed in substantially superimposed relation thereto and extending inwardly into engagement with the said panel for dividing the main housing into an inner and an outer compartment.

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1,691,423. CIRCUIT-CONTROL APPARATUS. ERNST F. W. ALEXANDERSON and ALBERT H. MITTAG, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed May 20, 1926. Serial No. 110,347. 10 Claims. (Cl. 175—294.)

1. The combination of a plurality of power line sections, an electron discharge device provided with a cathode and anode connected between said line sections and with

means comprising a grid for controlling the transmission of current between said cathode and anode, and means electrically connected between one of said line sections and



said grid for causing said current to be interrupted in response to a predetermined electrical condition of said line sections.

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1,691,424. GEL AND PROCESS FOR PRODUCING THE SAME. EUGENE E. AYERS, Jr., Swarthmore, and ERLING H. HAABESTAD, Philadelphia, Pa., assignors to B. A. S. Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 21, 1924. Serial No. 745,006. 17 Claims. (Cl. 252—6.)

1. A composition presenting substances for mutual reaction consisting of a substantially water-insoluble gel comprising a water-soluble salt of a substantially water-insoluble fatty acid and a liquid ester of an inorganic acid and water.

17. A composition presenting substances for mutual reaction consisting of a gel comprising a monochloride of an aliphatic hydrocarbon having three to six carbon atoms and a water-soluble salt of a substantially water-insoluble fatty acid and water.

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1,691,425. ESTERS PRODUCED FROM ORGANIC HALIDES AND PROCESS OF PRODUCING THE SAME. EUGENE E. AYERS, Jr., Swarthmore, and ERLING H. HAABESTAD, Philadelphia, Pa., assignors to B. A. S. Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 21, 1924, Serial No. 745,007. Renewed Apr. 20, 1927. 22 Claims. (Cl. 260—106.)

1. The process of producing esters which comprises reacting a liquid ester of an inorganic acid in the presence of water with salts of a substantially water-insoluble fatty acid capable of forming a gel with said ester.

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1,691,426. HYDROLYSIS OF ESTER-FORMING COMPOUNDS. EUGENE E. AYERS, Jr., Swarthmore, and ERLING H. HAABESTAD, Philadelphia, Pa., assignors to B. A. S. Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 21, 1924. Serial No. 745,008. 25 Claims. (Cl. 260—156.)

1. The process of substituting hydroxyl groups in place of the acid radicals in liquid esters of inorganic acids which comprises heating such an ester with an aqueous alkaline agent in the presence of an ester which contains a basic radical like the basic radical of said inorganic acid ester combined with the acid radical of a substantially water-insoluble fatty acid.

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1,691,427. PROCESS FOR THE MANUFACTURE OF PRODUCTS OF CONDENSATION OF UREA AND FORMALDEHYDE AND THE PRODUCTS THUS OBTAINED. HENRI BARTHÉLEMY, Paris, France, assignor to Societe Industrielle des Matieres Plastiques, Paris, France. Filed Sept. 16, 1926, Serial No. 136,003, and in France Sept. 24, 1925. 6 Claims. (Cl. 260—3.)

1. A process of manufacturing condensation products from urea and formaldehyde, comprising the step of treating a syrupy solution of the initial condensation product of urea and formaldehyde with an organic anhydride of the aliphatic series.

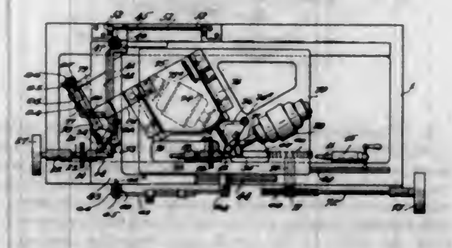
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1,691,428. PROCESS FOR THE MANUFACTURE OF AMINOANTHRAQUINONES. HERMANN BERTHOLD, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 27, 1927, Serial No. 229,257, and in Germany Dec. 2, 1925. 3 Claims. (Cl. 260—60.)

1. The process which comprises treating an α-nitroanthraquinone with a hydrogenated base of the quinoline series.

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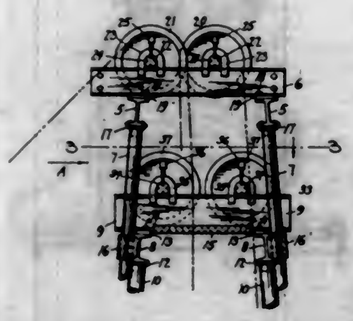
1,691,429. SHAPING MACHINE FOR IRREGULAR FORMS. STANLEY E. BOYNTON, Rochester, N. Y., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Nov. 17, 1921. Serial No. 515,990. 47 Claims. (Cl. 142—15.)



1. A shaping machine having two relatively adjustable tools, one designed for rough work and the other designed for finishing work on the portions of the work piece operated upon by the roughing tool, and means controlled from a model for controlling the relative adjustment between the tools and also between a work piece and the tools.

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1,691,430. CROWN-BLOCK APPARATUS. THOMAS F. CAMPBELL, Oklahoma City, Okla. Original application filed June 28, 1926, Serial No. 119,005. Divided and this application filed Dec. 20, 1926. Serial No. 155,946. 11 Claims. (Cl. 254—190.)
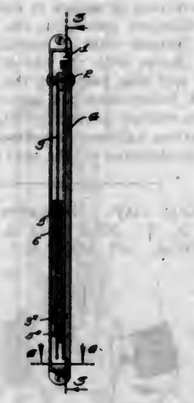


1. A derrick structure comprising two crown blocks each independently supported by said structure, one above the other, a pulley on the upper crown block, and a pulley supported upon the lower crown block, said latter pulley being disposed to guide a cable passing over the upper pulley to a determinate point at the foot of the derrick.



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1,691,431. VEHICLE DIRECTION SIGNAL. FREDERICK P. CARPENTER, San Diego, Calif. Filed Sept. 1, 1927. Serial No. 216,861. 7 Claims. (Cl. 116—51.)



1. In a signaling means of the class described, a casing, an indicating means pivotally mounted therein, said indicating means comprising a pair of independently pivoted, relatively shiftable shafts, a pair of arrow head members, one of said arrow head members pivotally connected to one of said shafts, and a second arrow head pivotally mounted in said shaft actuated by the longitudinal movement of one shaft in relation to the other.

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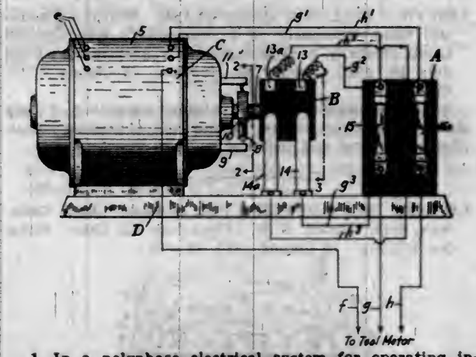
1,691,432. HARNESS ATTACHMENT. JAMES R. CRACROFT, Emporia, Kans. Filed Mar. 23, 1926. Serial No. 96,810. 1 Claim. (Cl. 24—183.)



A device of the kind described comprising an elongated plate having one end turned back to form a U-shaped loop extending from the plate adjacent its other end and having a height such as to closely engage a harness strap, a second U-shaped loop adjacent the hook and also projecting from the plate, said second loop being higher than the first loop to loosely engage said harness strap, and a pin projecting from the plate intermediate the loops to engage a hole in said strap.

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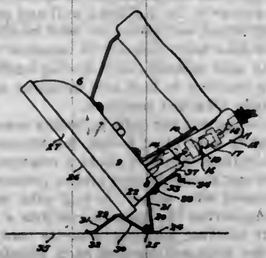
1,691,433. PHASE-FAILURE AND PHASE-REVERSAL PROTECTOR. CLARENCE J. DEESSER, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed June 9, 1926. Serial No. 114,628. 14 Claims. (Cl. 175—294.)




1. In a polyphase electrical system for operating induction motors, in combination, fuses for interrupting the circuit to the motor, and means immediately shunting said fuses when the power is turned on if the power characteristics are normal.

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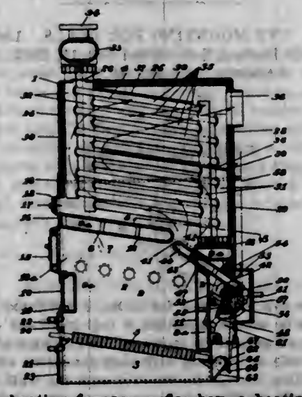
1,691,434. ELECTRIC IRON. SAMUEL DWORKIN, Philadelphia, Pa. Filed Aug. 11, 1925. Serial No. 49,548. 7 Claims. (Cl. 219—25.)



5. The combination of an iron; and a stand connected to the iron and having a portion movable under the iron to support the latter in a tilted position.

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1,691,435. HEATING SYSTEM. FREDERICK J. FRENE, Avalon, Pa. Filed Aug. 20, 1924. Serial No. 733,093. 7 Claims. (Cl. 110—147.)



1. In a heating furnace, a fire box, a heating chamber, an ash pit, a member movable between said box and cham-

ber for controlling the draft through said furnace, means for automatically moving said member and means automatically operated by the first mentioned means, for controlling and admitting air to said box adjacent said member.

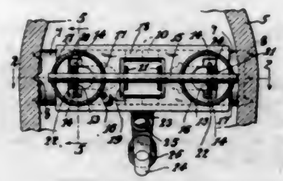
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1,691,436. SEAL FOR HARD GLASS. WILLIAM BENJAMIN GERO, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed July 28, 1926. Serial No. 125,591. 4 Claims. (Cl. 176—36.)

1. In combination with a container consisting of hard glass, a conductor sealed therein and consisting of an alloy of tungsten and molybdenum.

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1,691,437. EYE MOUNTING FOR DOLLS. LEO J. GRUBMAN, Belle Harbor, N. Y. Filed June 23, 1926. Serial No. 117,931. 12 Claims. (Cl. 46—40.)

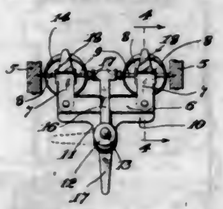


1. Attaching means for oscillatory eye mountings for doll heads comprising two attaching members each having means to support the eye mounting in operative relation to spaced eye openings in the doll head wall and permitting the relative longitudinal movement of said members to their attached positions with respect to opposite sides of the head wall, and said members each having additional means automatically coacting to lock said members against movement from their attached positions.

12. An eye mounting for dolls including spaced eye members, and gravity controlled means for transmitting oscillating motion to said members about a relatively fixed axis, said members and means having means permitting of their angular movement with respect to said axis, and means for operatively supporting the mounting within a doll head including a part coacting with said gravity controlled means to hold the eye members against such angular movement with respect to the axis when they are initially engaged in the eye sockets of the doll head wall, and said part being movable out of engagement with said gravity controlled means in the application of the supporting means to the doll head to thereby release the eye members and gravity controlled means for angular movement with relation to said axis.

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1,691,438. EYE MOUNTING FOR DOLLS. LEO J. GRUBMAN, Belle Harbor, N. Y. Filed Feb. 11, 1927. Serial No. 167,434. 6 Claims. (Cl. 46—40.)



6. In an eye mounting for dolls, a weighted pendulum adapted to be mounted within a doll head for oscillatory movement, an adjustable stop member having a pivotal connection at one of its ends with said pendulum and adapted in one position thereof for contact with the wall of the doll head to limit oscillatory movement of the pendulum in a direction to dispose the eyes in their open positions, and said member being adjustable to a position substantially at right angles to said first position to permit the eye mounting to be inserted upwardly through the neck opening of the doll head.

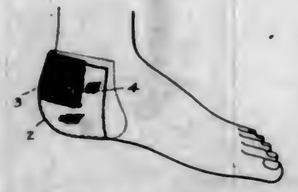
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1,691,439. PROCESS FOR PRODUCING METALS IN ELECTRIC FURNACES. EMIL GUSTAF TORVALD GUSTAFSSON, Stockholm, Sweden, assignor to Hampus Gustaf Emrik Cornelius, Hamngatan I A, Stockholm, Sweden. Filed Mar. 31, 1926, Serial No. 98,915, and in Sweden May 16, 1925. 1 Claim. (Cl. 75—22.5.)

In the manufacture of metals in electric furnaces under practically continuous operation, the steps consisting in charging the furnace with a metalliferous charge and smelting said charge with the aid of electric heat while forming metal and slag, emptying the furnace to bare the bottom thereof, reintroducing a quantity of the slag substantially in its original tapped condition for protection of the furnace bottom against the action of the electric arc, and starting the charging for the next heat.

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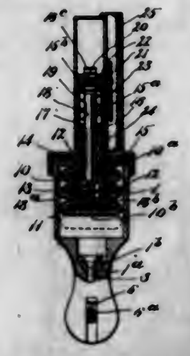
1,691,440. FOOT CAP. HARRIETTE ENSLEY HODGSON, New York, N. Y. Filed June 2, 1925. Serial No. 34,291. 1 Claim. (Cl. 128—156.)



A bandage comprising a body portion of soft flexible material shaped to fit the outlines of portions of the human foot, and a pad affixed to the inner side of such material by edge stitching following the outline of the pad, said pad being formed of lamb's wool or the like with the fibers within the stitched line relatively free to permit such fibers to be bunched or thinned at different areas for bandage purposes.

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1,691,441. TIRE PRESSURE GAUGE. JOHN E. KENNEDY and MICHAEL A. KENNEDY, Los Angeles, Calif. Filed Aug. 8, 1925. Serial No. 48,977. 11 Claims. (Cl. 73—110.)

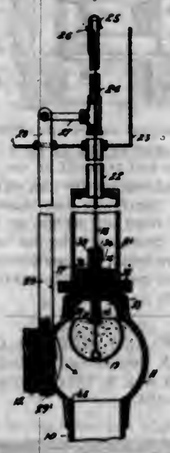


1. A pneumatic-tire pressure gauge embracing in combination an air-confining chamber adapted for temporary application to a tire stem, a casing secured to the open end of said chamber, an air-confining diaphragm of pliable fabric interposed between the chamber and the casing, an extensible spring-pressed plunger mounted in the casing to oppose a yielding thrust against said diaphragm to counterbalance the air pressure, a spring-tensioning nut interconnecting the extensible members of the plunger to permit extension of the plunger without affecting the spring tension and to permit the tensioning of the spring without extending the plunger, and a pressure scale indicator controlled by the movement of the plunger.



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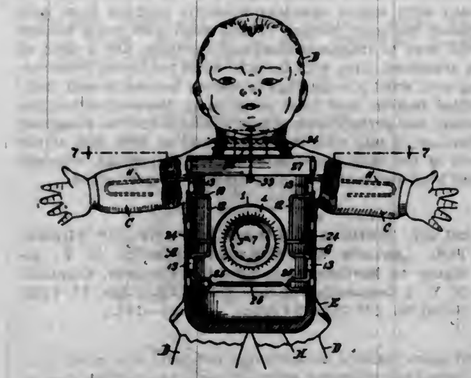
1,691,442. TELLTALE POSITIVE AND AUTOMATIC GAS CUT-OFF VALVE. HENRY KENNELL, New York, N. Y. Filed Nov. 28, 1925. Serial No. 71,940. 6 Claims. (Cl. 137—139.)



2. A gas supply cut-off device comprising a valve body having a valve seat associated therewith and surrounding the inlet, a ball to fit on said seat for closing said inlet, a tube to normally hold the ball out of engagement with its seat, said tube having a sealed gas passage and means to break the seal for the gas passage and release the ball to close the inlet.

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1,691,443. SOUNDING FIGURE TOY. BURT E. LLOYD, Montclair, N. J. Filed Mar. 26, 1926. Serial No. 97,523. 4 Claims. (Cl. 46—40.)



4. A doll comprising a body, a casing in the body, a sound producing device arranged transversely, from front to rear, in the casing, a spring normally tending to extend one head of the sound producing device, the other head thereof being in fixed position, an arm support carrying a doll arm, arm operating mechanism, said arm operating mechanism comprising a vertically arranged shaft rockingly mounted at a plurality of points on said casing, an arm extending from said shaft and partaking of the movement of said shaft, an actuating member carried by the movable head of the sound producing device, said actuating member being movable in the same path as the arm carried by said shaft, a presser carried by the movable head, said spring normally holding the sound producing device in extended position, said sound producing device and arm operating mechanism being operable by manual pressure against the presser.

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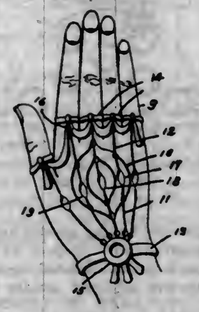
1,691,444. COMPRESSION SPRING WASHER. CYRUS H. LOUTREL, South Orange, N. J., assignor to The National Lock Washer Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 27, 1928. Serial No. 265,071. 1 Claim. (Cl. 151—36.)



A compression spring washer of the split ring type in the general form of a helical segment of substantially rectangular cross section, whose opposed ends are spaced apart a distance less than the smallest cross section dimension of the washer stock and are at angles to the washer faces, said ends being extended beyond the two respective faces of the washer to form overlapping spur portions.

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1,691,445. ORNAMENTAL JEWELRY. JULES A. MELIODON, Lincoln Park, N. J. Filed June 28, 1927. Serial No. 202,002. 1 Claim. (Cl. 63—2.)



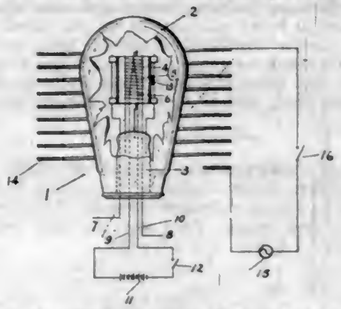
An article of jewelry comprising a plurality of finger rings and a wrist band, an ornamental member carried by said wrist band, a series of connector members secured to said ornamental member and equalling in number the number of finger rings, a flexible link connecting each of said connector members with a finger ring, and a central ornamental member disposed between said finger rings and said wrist band and supported by a plurality of said links, said finger rings being connected together by a band arranged in loops between each of said rings.

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1,691,446. ELECTRON-DISCHARGE DEVICE WITH OXIDE-COATED FILAMENT. HARVEY CLAYTON RENTSCHLER, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Mar. 28, 1925. Serial No. 18,957. 8 Claims. (Cl. 250—27.5.)

1. The method of producing electron devices having a plate and an electron-emitting cathode which comprises

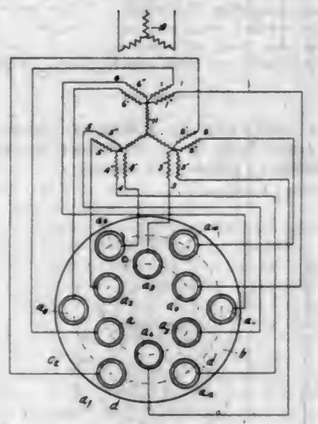
coating the cathode with a carbonate of an alkaline earth metal, sealing the plate and cathode in an envelope, evacuating the envelope, and thereafter heating the filament to



decompose the coating thereon to the oxide and while the filament is in a heated condition vaporizing a metallic clean-up agent within the envelope.

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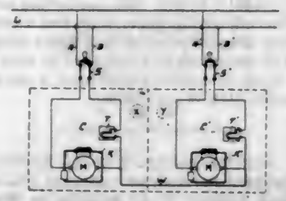
1,691,447. RECTIFIER AND CONNECTION THEREFOR. MAX SCHIESSER, Baden, Switzerland. Filed Oct. 21, 1927, Serial No. 227,653, and in Germany Oct. 16, 1926. 6 Claims. (Cl. 175—363.)



1. Rectifier apparatus having anodes arranged in circles substantially concentric with respect to each other, the anodes in one circle being disposed opposite the spaces between the respective adjacent anodes in the adjacent circle.

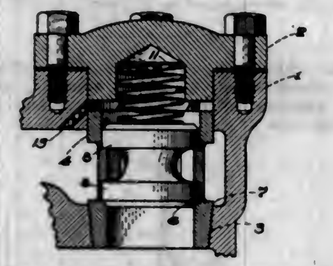
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1,691,448. THERMOSTATICALLY-CONTROLLED ELECTRIC CIRCUITS. JOSEPH F. SEIDEL, Euclid, Ohio. Filed June 13, 1927. Serial No. 198,552. 2 Claims. (Cl. 62—4.)



1. The combination with a plurality of refrigerating units each having an electric motor and a thermostatic switch in the motor circuit, of a shunt connection between the respective circuits, whereby the closure of any switch will start all the motors.

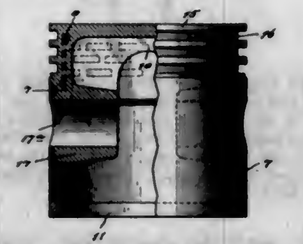
1,691,449. VALVE FOR PUMPS. JEFFERSON M. SHARP, Oil City, Pa. Filed May 16, 1927. Serial No. 191,753. 3 Claims. (Cl. 251—144.)



1. A valve organization for pumps comprising a substantially tubular valve cage having an open upper end, whereby the free insertion and removal of the valve is provided for forming a guide-chamber for the valve and having a valve-seat adjacent the lower end thereof, and a spool-shaped valve each head of which is provided with a seating face, which faces are adapted to interchangeably seat upon said valve-seat; the peripheries of said heads being adapted to have guiding contact with the inner walls of said cage.

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1,691,450. PISTON AND METHOD OF PRODUCING SAME. HAROLD A. SOULIS and WILBUR T. SOULIS, New York, N. Y. Filed Aug. 9, 1924. Serial No. 731,032. 9 Claims. (Cl. 74—108.)



1. A piston for internal combustion engines, comprising a tubular shell of cast iron, the wall thereof adjacent one end being inset by the formation of an integral circumferential shoulder having a grooved top surface and provided with spaced openings inwardly inclined from said groove, the inset portion of said shell wall being formed with rows of staggered elongated openings, and a head of an aluminum alloy with integral wrist pin bosses cooperating with wrist pin openings oppositely located in said shell, united thereto, said head metal being disposed within the groove and perforations of said shoulder and the elongated openings in said wall thereabove, and on each side of the wall of the shell above said wrist pin openings, whereby said head and said shell are permanently interlocked.

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1,691,451. SHOE AND LIKE LACE AND TIP THEREFOR. ARTHUR W. UELLENDAHL, Jamaica, N. Y., assignor to Barthels Manufacturing Company, Glendale, N. Y., a Corporation of New York. Filed Jan. 17, 1928. Serial No. 247,324. 2 Claims. (Cl. 24—143.)



1. A shoe lace or the like, comprising a lace or string, and a tip consisting of a piece of flexible material wound compactly upon and around the end of the lace and on itself, the flexible piece being wider than the lace and the material being impregnated with a substance which sets in cooling, and by which substance the piece is held on the outside of the lace and also in the shape of a tip.



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1,691,452. MANUFACTURE OF HYDROCHLORIC ACID. EDSON R. WOLCOTT, Los Angeles, Calif., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 1, 1924. Serial No. 740,903. 1 Claim. (Cl. 23—154.)

In the preparation of a porous coke adapted to the production of hydrochloric acid by contact with steam at elevated temperatures, the method which consists in intimately mixing sadium chlorid and clay with a carbonaceous binder and then effecting destructive distillation of the mixture at a temperature less than 1500° F. to form the said porous coke.

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1,691,453. FASTENING DEVICE. LOUIS ALTERSON, New York, N. Y. Filed Feb. 28, 1928. Serial No. 257,576. 2 Claims. (Cl. 24—77.)



2. A fastening device composed of a pair of overlapping plate members, a stud projecting from the face of one of said members, an aperture in the other plate member adapted to fit over the stud when the plates are in their overlapped relationship, the fit between the stud and aperture being such that a binding effect by the edge of the aperture on the side of the stud is secured by inclination of one plate with regard to the other.

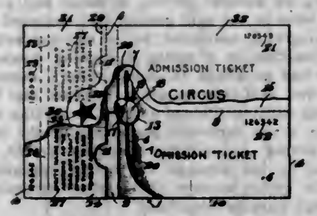
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1,691,454. MANUFACTURE OF INSECTICIDES. HOWARD W. AMBRUSTER, Westfield, N. J. Filed Dec. 4, 1923. Serial No. 678,434. 20 Claims. (Cl. 167—6.)

20. An insecticide comprising a finely pulverized ore containing native arsenate of iron.

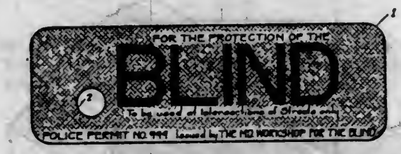
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1,691,455. CARNIVAL TICKET. EMER D. BATES, Pasadena, Calif. Filed July 11, 1927. Serial No. 204,813. 6 Claims. (Cl. 283—51.)




1. As a new article of manufacture a ticket comprising a body portion and a stub portion severably connected together, said body portion having integral at one end thereof a pair of opposed coacting parts for concealing appropriate indicia, said parts normally connected to said stub portion to conceal such indicia and free of connection with each other whereby when said body portion and parts are severed from the stub portion said parts can be shifted relative to each other to expose the indicia.

1,691,456. SIGN. JOHN L. BECK, Baltimore, Md. Filed Mar. 17, 1927. Serial No. 175,969. 2 Claims. (Cl. 40—125.)




1. A pocket size sign oblong and substantially rectangular, with an opening therethrough adjacent one end and nearer one long edge thereof than the other for the insertion of the user's finger, and whereby the upright position of said sign may be determined by the sense of touch.

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1,691,457. PASTE-TUBE HOLDER. WALTER A. BEHRENS, Hollis, N. Y. Filed Nov. 19, 1924. Serial No. 750,796. 3 Claims. (Cl. 221—60.)



1. A holder of the character disclosed, having a substantially flat base with means for enabling attachment of the same to a wall or other supporting structure and provided with a pocket for a paste tube closed at the bottom to form a rest and stationary support for the lower closed end of the tube and open at the top to expose the neck of the tube, said pocket being open up the front of the same to expose substantially the entire front of the supported tube for manipulation purposes.

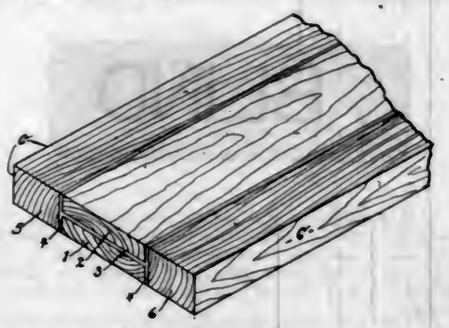
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1,691,458. METHOD OF TREATING LIQUIDS. CARL BENEDICKS, Stockholm, Sweden. Filed Jan. 29, 1925, Serial No. 5,537, and in Sweden July 2, 1924. 3 Claims. (Cl. 183—114.)



1. A method of liberating a molten mass from gas present therein which comprises stirring the molten mass by means of a body having higher temperature than that of the molten mass, the separation of the gas being localized on said body.

1,691,459. STRAIGHTEDGE. HOWARD E. BENWAY, Wichita, Kans. Filed Aug. 24, 1925. Serial No. 52,054. 1 Claim. (Cl. 33—75.)



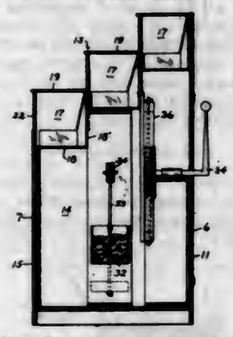
In a straight edge, in combination, a pair of wood strips, a fibrous strip between said strips, fiber strips transversely positioned to engage the longitudinal edges of said first named strips, a wood strip positioned on the outside of each of the second named fiber strips, and adhesive substance between all of said strips to firmly hold them together and thus form a straight edge.

1,691,460. COMPOSITION OF GUM CHICLE, RUBBER, AND AN AQUEOUS COLLOID. ARTHUR BIDDLE, Trenton, N. J., assignor to United Products Corporation of America, a Corporation of Delaware. Filed May 22, 1926. Serial No. 111,027. 8 Claims. (Cl. 134—17.)

1. A composition of matter having adhesive properties comprising an aqueous dispersion of gum chicle, rubber and a hydrophilic colloid.

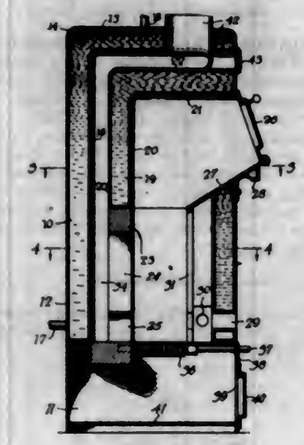
8. A composition of matter having adhesive properties comprising an aqueous dispersion of chicle a hydrophilic colloidal substance, an oil solvent for said chicle, rubber in dispersed phase, and an alkali.

1,691,461. VENDING SHOW CASE. EZRA F. BISHOP, Oakland, Calif., assignor of one-half to Roy W. Dimock, Oakland, Calif. Filed June 23, 1926. Serial No. 118,003. 8 Claims. (Cl. 312—139.)



2. In a vending show case, a body, a merchandise supporting unit mounted to slide vertically therein and comprising merchandise holding horizontally-extending compartments arranged in upwardly and rearwardly progressing steps and each being open at the front thereof, and independent vertically extending transparent plates fixed to said body and so positioned relative to said compartments that the openings thereof will be covered thereby when the unit is in one position to be uncovered thereby when the unit is in another position, and transparent top plates for said compartments movable with said unit and arranged to substantially set upon said front plates and thereby seal the compartments in one of the positions of the unit.

1,691,462. REFUSE BURNER AND WATER HEATER. JOHN BORGH, Bellport, N. Y. Filed May 21, 1926. Serial No. 110,659. 3 Claims. (Cl. 122—2.)



1. An incinerator comprising a pair of spaced casings, said casings being adapted to receive water therein and being connected for circulation of water therebetween, one of said casings having burner openings therein, a plurality of flues connected at one end to said burner openings, said flues having slotted openings at the inner side thereof, a refractory wall mounted within said casings and having a plurality of slotted openings therethrough, a downwardly inclined feeding chute, a door closing the outer end of said chute, and an ash receiver mounted below said casings for receiving the ashes.

1,691,463. FRICTION MEANS FOR WINDOW-SHADE ROLLERS. HUGH R. BREWER, Wichita, Kans. Filed Mar. 1, 1926. Serial No. 91,486. 1 Claim. (Cl. 156—28.)

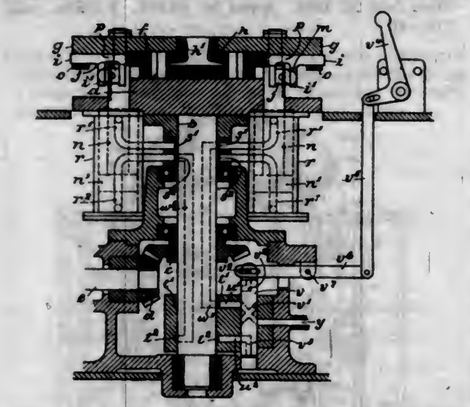


In a friction means for window shade rollers, a thimble comprising an annular groove, a flange and a rib adjacent the sides of the said groove, two concaved shoe segments integrally connected by a rectangularly shaped loop to function as a spring tensioning means for the segments and as means to engage with a detent to prevent rotation, said shoe segments tensioned and frictionally engaging with said flange and rib as braking means for the roller, a pin centrally positioned in the thimble, a bracket having a laterally extending detent, the pin trunnioned in the bracket, the detent engaging in the rectangular spring member of the shoe segments, all as, and for the purpose described.

1,691,464. CENTRIFUGAL MACHINE FOR CASTING METAL. DAVID BROWN, Lockwood, Huddersfield, England, assignor to David Brown & Sons (Huddersfield), Limited, Lockwood, Huddersfield, England, a Company of Great Britain. Filed Aug. 4, 1927, Serial No. 219,639, and in Great Britain Aug. 11, 1926. 8 Claims. (Cl. 22—65.)

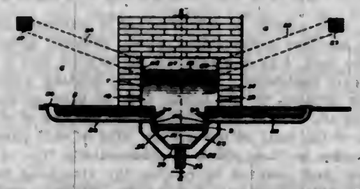
7. A centrifugal casting machine including a rotary mold having spaced plates one of which is movable toward and away from the other plate, and including radially movable segments between the plates carried by one plate, means for moving said movable plate toward and away from the other plate, and means operable by the





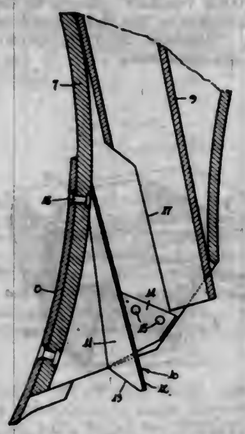
movement of said movable plate toward and away from the other plate for moving said segments inwardly and outwardly respectively.

1,691,465. FIREPLACE HEATING SYSTEM. THOMAS BURLEY, Seattle, Wash. Filed Feb. 28, 1928. Serial No. 257,575. 3 Claims. (Cl. 126—121.)



1. A fireplace heating system comprising a fire-well, a radiator plate arranged to form a back-chamber, a casing arranged to form a bottom-chamber around the fire-well, and said bottom-chamber being in direct communication with said back-chamber.

1,691,466. GRAIN DRILL. JACOB HARP BURTNER, Boonsboro, Md. Filed May 29, 1926. Serial No. 112,547. 3 Claims. (Cl. 111—86.)



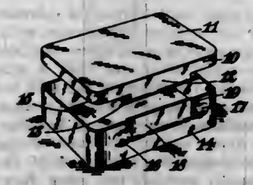
1. A deflector for use in the lower end portion of a drill boot composed of sheet metal and V-shaped in horizontal section with its sides converging rearwardly to a ridge, the lower ends of said sides being oblique and extending downwardly and rearwardly to the lower end of said ridge to provide a nose to work in the soil behind a shovel carried by said boot.

1,691,467. PACKAGE HANDLE. GEORGE W. CARVER, East Orange, N. J. Filed Jan. 6, 1927. Serial No. 159,495. 10 Claims. (Cl. 224—56.)



10. A package carrier comprising a corrugated wire, a hand grip enclosing said wire and fastening means engaging the grip between adjacent corrugations.

1,691,468. HINGED JOINT. ALBERT JAMES COOPER, Kew, and ALWYN ALFRED HOPE BILNEY, London, England. Filed Nov. 2, 1926, Serial No. 145,874, and in Great Britain Dec. 10, 1925. 1 Claim. (Cl. 220—31.)



A hinged joint for connecting a cover to a box without the use of tools, the cover having two oppositely extending pivots connected thereto, the box having two oppositely disposed housings extending beyond the outer face of the box, there being an opening to each of the housings, while the other ends of the housings are closed and merge into the body of the box, one of the housings being connected to the body of the box at both sides of the opening there being a slit from the top of the box to the opening to the other housing, whereby one of the pivots can be entered into the opening of the first mentioned housing after which the second pivot can be inserted into its housing by passing it through the slit.

1,691,469. ENVELOPE SEALER. OLIN M. DANTZLER, Greenwood, S. C. Filed Apr. 19, 1927. Serial No. 184,947. 1 Claim. (Cl. 120—6.)



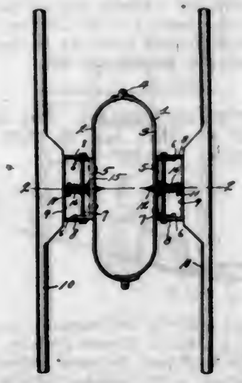
In an envelope sealer of the character described, a liquid container of a shape to provide a handle, an extension at one end of the container, the same projecting from the bottom side thereof, and at oblique relation to the said container, the adjacent end of said container being formed with an opening, a wick adapted to rest upon said extension and to project through said opening and within the container, the longitudinal edge of said extension being bent upon the wick to secure the same in position, a tongue projecting outwardly from the end of the container, in spaced parallelism with the extension, one longitudinal edge of said tongue being adapted to project beyond one longitudinal edge of the extension and is provided with a pair of spaced depending ears, and an elongated roller rotatably mounted between said ears so that the same will depend below the plane of the extension.

1,691,470. NAIL. GEORGE C. FEDDERMAN, Detroit, Mich., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 3, 1927. Serial No. 217,412. 1 Claim. (Cl. 85—28.)



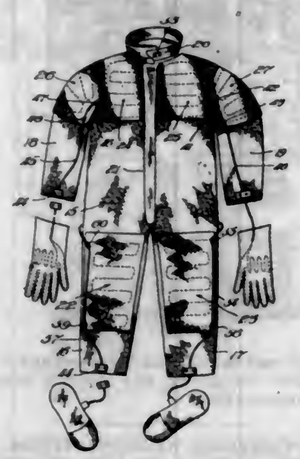
A round wire upset nail having its extreme upper end in the form of an inverted frusto-cone with the lower end of said frusto-cone of a diameter substantially equal to that of the round wire and with a straight sided frusto-conical portion intermediate the said inverted frusto-conical portion and the round wire stem of the nail, the said intermediate frusto-conical portion having its small diameter upper end of the same diameter as and meeting the small diameter lower end of the upper inverted frusto-conical portion, the lower face of the intermediate frusto-conical portion being flat and said inverted frusto-conical portion being of considerably greater altitude than the intermediate frusto-conical portion, substantially as described.

1,691,471. ANIMAL POKE. HARRMANN FISCHER, Raeville, Nebr. Filed June 17, 1927. Serial No. 199,475. 1 Claim. (Cl. 119—140.)



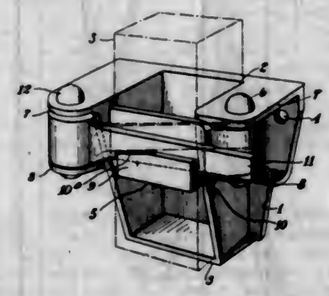
An animal poke comprising a sectional neck encircling yoke, U-shaped brackets secured to opposite sides of the yoke, obstruction engaging bars at opposite sides of the yoke, U-shaped brackets carried by the bars, said U-shaped brackets of the yoke and bars extending forwardly of the yoke and hingedly connected together adjacent their forward sides, prongs carried within the bar brackets and extending inwardly through the yoke brackets and opposite sides of the yoke and springs surrounding said prongs and forming means for normally forcing the bar brackets outwardly and maintaining the prongs in inoperative positions.

1,691,472. ELECTRICALLY-HEATED GARMENT. WALTER D. GRAHAM, River Forest, and CHARLES M. UHLIG, Chicago, Ill.; said Uhlig assignor to said Graham. Filed June 25, 1925. Serial No. 39,421. 1 Claim. (Cl. 219—46.)



As a new article of manufacture a garment for the purpose specified comprising a woven garment adapted to cover the body, legs and arms of the wearer, and a series of separate individual, self-contained, heating pads, permanently secured to the inside face of said garment at points for the individual protection and heating of selected portions of the body of the wearer, each of said pads having a border portion which is substantially free of heating wires and adapted to receive the attaching threads whereby said pad is attached to the garment, each pad being suitably shaped and conforming to the body of the wearer at the point to be heated, each individual pad being provided with suitable electrical conductors for heating current, and a series of conductors on the garment serving for the supply of current to various pads, substantially as described.

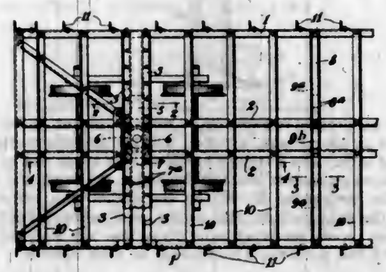
1,691,473. STAKE POCKET. LOUIS D. GREGG, Hackensack, N. J., assignor to The Gregg Company Ltd., Hackensack, N. J. Filed Apr. 20, 1928. Serial No. 271,424. 12 Claims. (Cl. 105—383.)



1. In a stake pocket for railway cars and the like, a stake receiving compartment having an open front, a pivoted door for closing the open front, a pivoted latch bar for releasably latching the door in closed position, a trough on said door for receiving the latch bar and means to permit movement of the latch bar in a vertical and horizontal plane.

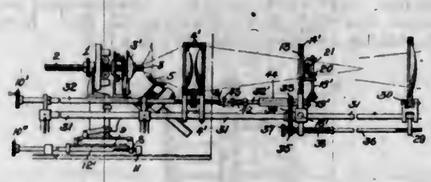


1,691,474. CAR-FRAME CONSTRUCTION. WILLIAM BURR GREGG, Hackensack, N. J., assignor to The Gregg Company Ltd., Hackensack, N. J. Filed Dec. 12, 1927. Serial No. 239,370. 9 Claims. (Cl. 105—416.)



3. In a railway car frame of the cleat floor type, side and center sills, cleats extending across the car frame, a double diaphragmed bolster with a channel top cross member extending across the frame with the flanges of the channel projecting upwardly above the sills, and one or more cross bearers, each with a channel top cross member extending across the frame with the flanges of the channels projecting upwardly above the sills.

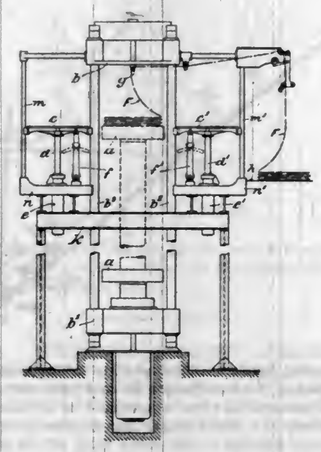
1,691,475. PROJECTOR LAMP. THEODORE HALL, New York, N. Y., assignor to Hall & Connolly, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 18, 1928. Serial No. 247,527. 9 Claims. (Cl. 240—3.)



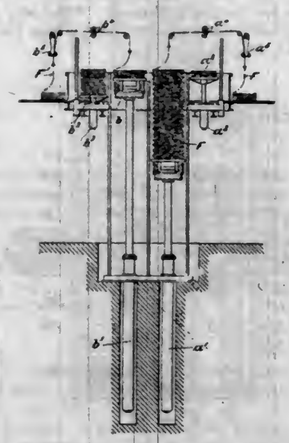
6. In a flaming arc projector lamp, an arc lamp mechanism, a beam collector, an objective lens, a shutter adjustable to various size apertures positioned between said collector and lens, means for changing the relative position of the arc and said collector, means interconnecting said first-named means and said shutter for adjusting the size of the aperture in said shutter accordingly, and a telescopic shield for enclosing the beam between said collector and shutter.

1,691,476. PRESSING OF FABRICS. ARNOLD DOUGLAS HEATON and JOHN OBADIAH LANG, Liversedge, England. Filed Sept. 17, 1927, Serial No. 220,127, and in Great Britain Sept. 18, 1926. 4 Claims. (Cl. 26—38.)

1. A fabric pressing apparatus comprising a press having a top plate and a vertically movable table below the top plate for pressing folded fabric between said table and plate, in combination with paper carrying means adjacent to the press near said top plate, so that press papers on said means may be conveniently placed in the folds of the fabric as it is folded in a pile on the table while the table is descending.

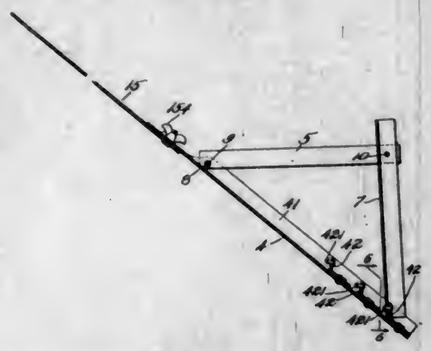


1,691,477. PLANT FOR PRESSING FABRICS. ARNOLD DOUGLAS HEATON and JOHN OBADIAH LANG, Liversedge, England. Filed Sept. 17, 1927, Serial No. 220,128, and in Great Britain Feb. 9, 1927. 1 Claim. (Cl. 26—38.)



Papering apparatus for fabric comprising two adjacent vertically movable platforms for supporting piles of folded fabrics, separate means for guiding the fabric to and from each of said tables, and vertically movable paper platforms at the opposite sides of the fabric platforms, whereby as either fabric platform is raised to remove one fabric therefrom and the other fabric platform is lowered to pile another folded fabric thereon, the papers may be readily transferred from the fabric which is being raised to the fabric which is being lowered and the corresponding paper table.

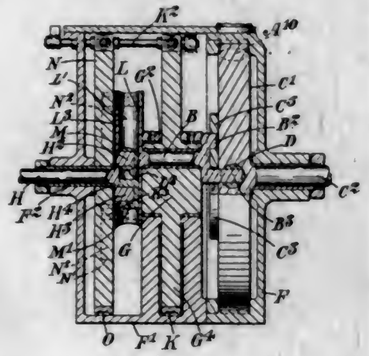
1,691,478. ROOFING BRACKET. ALONZO P. HENDERSON, Hanover, Mass. Filed July 31, 1926. Serial No. 126,123. 3 Claims. (Cl. 304—20.)



1. A roofing bracket composed of a trough-shaped base-member having the side-flanges thereof upturned and provided with upstanding stops in a series located intermediate said side-flanges, a board-supporting member comprising a pair of strips located at the inner sides of the said side-flanges and having pivotal connection at one end with the said side-flanges, and a trough-shaped strut-member between the said strips, pivotally engaged with the other ends of the latter, said parts adapted to fold into nested condition with the strut-member between the said strips, the strips and strut-member between the flanges of the base-member, and the flanges of the strut-member downturned and enclosing the series of stops between them.

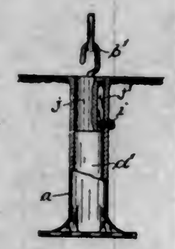
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1,691,479. ROTARY PISTON MECHANISM AND ITS APPLICATION TO VARIABLE-SPEED GEARING. HARRY HIORNS, Torquay, England. Filed May 11, 1925, Serial No. 29,466, and in Great Britain May 19, 1924. 7 Claims. (Cl. 74—14.)



1. In a rotary piston mechanism the combination of a rotary element carrying a pair of crank-pins, a cylindrically bored element which is disposed with the longitudinal axis of the bore transverse to the axis of said rotary element, is mounted for rotation about an axis eccentric thereto, is longitudinally slotted to receive one of the said crank-pins, has an external enlargement on its wall which is slotted transversely to the first said slot in the plane of rotation of the crank-pins to receive the other of said crank-pins, and a piston which fits in said cylindrical bore and is engaged by the first said crank-pin so that it may be reciprocated in the cylindrical bore by the crank-pin, substantially as and for the purposes described.

1,691,480. LAND ANCHOR. ROWLAND RUSHWORTH HIRST and ARNOLD HIRST, Halifax, England. Filed Feb. 10, 1927, Serial No. 167,302, and in Great Britain Mar. 16, 1926. 1 Claim. (Cl. 189—90.)



An anchorage comprising a vertical socket to be embedded in the ground, a piston member slidable vertically in said socket and having a portion at its upper end to project above the socket when said member is raised, and a removable projection carried by the socket and extending from the exterior into said socket, said member having a vertical recess receiving said projection for limiting the upward and downward movements of said member.

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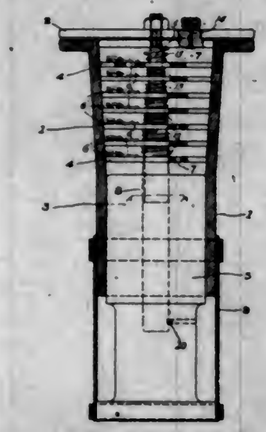
1,691,481. ICE TRAY FOR ELECTRICAL REFRIGERATION. JEAN JACQUES and ALLEN R. COSGROVE, York, Pa., assignors to Martin-Parry Corporation, York, Pa., a Corporation of Delaware. Filed Mar. 25, 1927. Serial No. 178,399. 5 Claims. (Cl. 62—111.)



1. A tray for automatic refrigeration comprising an open-faced receptacle, a grid for fitting into the confines of said receptacle, said grid comprising a strip of metal bent intermediate its ends to define a plurality of partitions for separating the ice to be formed in cubular formation.

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1,691,482. PNEUMATIC SPRING. GEORGE ROBERT JOUGHINS, New York, N. Y. Filed Jan. 15, 1923. Serial No. 612,844. 6 Claims. (Cl. 267—65.)

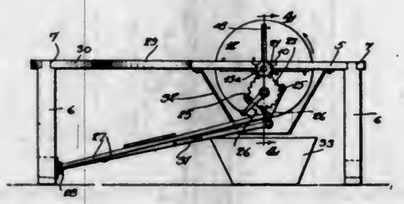


1. A pneumatic spring, in which a gaseous fluid enclosed and controlled within a rigid metal cylinder is the only load supporting resilient element, comprising a cylinder closed at one end; disc shaped diaphragms within the cylinder and placed transversely thereof to divide the cylinder space into separate portions and which have a longitudinal movement relative thereto; a reciprocating plunger fitted to the other end of the cylinder and means for transmitting the gaseous fluid and controlling its movements to and from the various portions into which the cylinder is divided by the diaphragms, the cylinder cover and the plunger.



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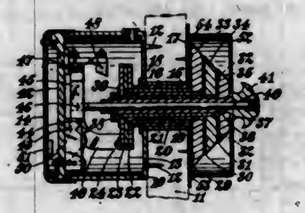
1,691,483. VEGETABLE CUTTER. MARTIN KERY, St. Catherines, Ontario, Canada. Filed Jan. 21, 1927. Serial No. 162,549. 1 Claim. (Cl. 146—116.)



A vegetable cutter comprising an elevated platform, said platform including a rigid portion having a removable section, a rotary cutting knife carrying disk journaled upon a transverse horizontal axle on the bottom of said removable section, and means carried by the removable section to facilitate hand operation of said disk when the platform section is removed.

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1,691,484. ANTITHEFT DEVICE FOR MOTOR VEHICLES. ALFRED CHARLES KING and JAMES STRINGER, London, England, assignors to King, Stringer & Company Limited, London, England, a British Company. Filed Apr. 26, 1927, Serial No. 186,732, and in Great Britain May 3, 1926. 6 Claims. (Cl. 200—45.)

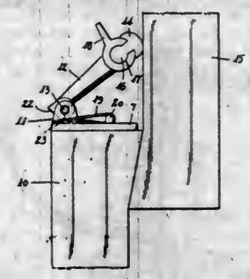


1. In an anti-theft device for a motor-car, the combination of a plurality of coaxial setting dials of a permutation lock, a corresopnding plurality of locking discs, a plurality of coaxial tubes each connecting a setting disc to a locking disc, said locking discs each being provided with a plurality of radial notches whereof one is deeper than the others, a switch blade pivotally mounted near said locking discs, a co-operating contact for said switch blade, a tail-piece on said blade adapted to enter said notches and to be permitted only by said deeper notches to move so far as to permit the switch blade to engage the said contact, and an operating rod connected to said switch blade extending coaxially through said tubes.

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1,691,485. SASH FASTENER. WILLIAM A. KIRK, Hot Springs National Park, Ark. Filed Aug. 4, 1927. Serial No. 210,625. 2 Claims. (Cl. 292—228.)

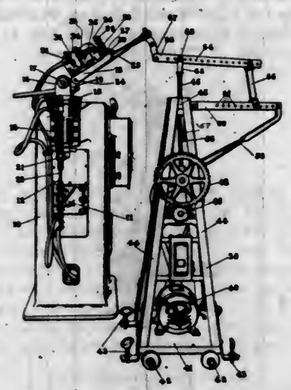
1. A sash fastener comprising a base having an opening and a portion bridging said opening, a dog pivotally mounted on said base, and a doubled leaf spring having its loop embracing said portion and having its terminals projecting below said dog, the dog having an abutment to bear



on the spring for holding the dog in released position and said dog having a cam to move on the spring for holding the dog in fastening position.

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1,691,486. AUTOMATIC ELECTRIC WELDING MACHINE. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 13, 1920. Serial No. 430,320. 5 Claims. (Cl. 219—4.)



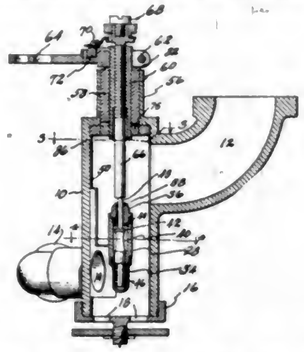
1. In combination with a welding machine having relatively movable electrodes, an auxiliary attachment comprising a substantially vertically extending frame, a pitman having a reciprocatory movement in the upper portion of said frame, motor means located at the bottom of said frame for imparting movement to said pitman, and means connecting said pitman to the machine for operating the relatively movable electrodes.

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1,691,487. CARBURETOR. CHARLES LOUIS LEVEQUE, Detroit, Mich. Filed July 30, 1926. Serial No. 125,842. 1 Claim. (Cl. 261—49.)

In a carburetor, a mixing chamber having a fuel mixture outlet opening and an air inlet opening, a barrel throttle rotatably mounted within said mixing chamber controlling said openings, a fuel nozzle in said chamber, a valve mounted within said nozzle and held yieldingly upwardly by a spring to close the outlet of the nozzle, said valve provided with a stem extending upwardly through the nozzle outlet into the interior of the mixing chamber, a rotatably operable axially movable member extending through the top of the barrel throttle into engagement with the end of said valve stem, said barrel throttle coupled with a part on the operating member to rotate with said member while permitting relative axial movement of the operating member therethrough, a spring tending to hold said operating member upwardly away from said valve

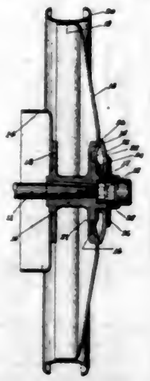
stem, a part having a stationary cam face disposed above said barrel throttle, a part on said operating member co-operating with said operating cam face whereby upon ro-



tation of said member relative to said cam face, the operating member is moved axially against the resistance of said spring to depress the valve stem and the valve.

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1,691,488. WHEEL. HERBERT V. LUDWICK, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 1, 1922. Serial No. 578,899. 7 Claims. (Cl. 301—9.)

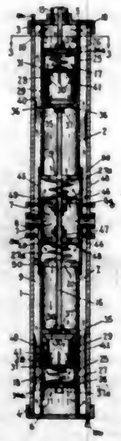


1. In a wheel the combination of a hub having a radial flange, a wheel disc mounted on said hub, an annular member mounted on the hub and engaging the disc in two spaced zones of contact, said disc and flange having interengaging portions located between said zones of contact and preventing relative rotation of the disc and flange, and means mounted on said hub for forcing said annular member against the disc to clamp said disc against the flange.

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1,691,489. DOUBLE-ACTING PLUNGER PUMP. BENJAMIN MILLER, Los Angeles, Calif., assignor of one-half to Jesse Arvel Culp, Van Nuys, Calif. Filed Sept. 28, 1927. Serial No. 222,582. 3 Claims. (Cl. 103—185.)

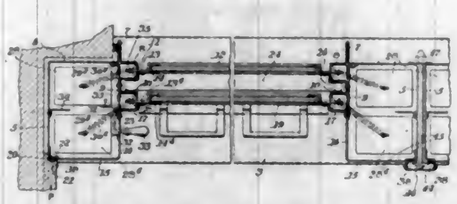
1. In a pump, a casing having a double wall providing an annular chamber closed at both ends, the inner wall of said chamber being formed by a pair of complementary piston cylinders, united with a coupling sleeve, the opposite ends of which are contained in the ends enclosing said annular chamber, there being ports through said inner wall near each end thereof, an apertured valve seat screwed into the ends of said coupling sleeve forming a conduit chamber, means near the mid-length of said annular chamber for conducting fluid there across to the interior of said conduit chamber, a spring seat screwed into said coupling sleeve in spaced relation with said apertured valve seats, a valve disk to close the apertures in said valve seat, a spring to seat upon said spring seat, to oppose the opening of said valve disks, pistons within said piston cylinders, valves in said pistons, said valves cooperating with said



valve disks in controlling the longitudinal flow of liquid flowing within said piston cylinders, through said ports into said annular chamber, an outlet conduit at one end of said piston cylinder and operating means for said pistons, said valves and pistons being adapted to alternately deliver fluid through said outlet conduit of said piston cylinder during the simultaneous reciprocation of said pistons.

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1,691,490. WINDOW STRUCTURE. CRAIG MILLER, Huntington, W. Va. Filed Apr. 20, 1927. Serial No. 185,164. 6 Claims. (Cl. 189—65.)

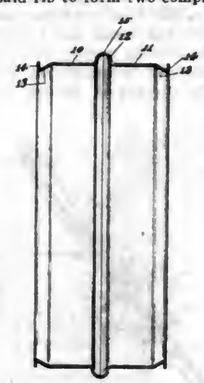


1. In a window construction, a hollow frame member having a slot therein, a sash having a sidewise extending plate projecting into the slot, and a pair of weather strip portions extending over the slot from either side thereof, the portions being adapted to substantially close the slot when they are not engaged by the plate, but to move back from the slot when engaged by the plate.

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1,691,491. PROCESS OF MAKING RIMS. EMIL A. NELSON, Abington, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of the State of Pennsylvania. Filed Feb. 25, 1924. Serial No. 694,894. 1 Claim. (Cl. 29—159.)

The process of making asymmetrical rims having an upstanding fixed retaining flange on one side and a depressed gutter on the opposite side, comprising the forming of an integral metal strip with a central rib, plane portions on each side of said rib constituting the body of the rim, and gutters on the outer edges of said plane portions whereby a symmetrical combined cross-section is devised, bending said strip into circular form, joining the ends of said strip to form an annulus and severing said annulus along the central line of said rib to form two complete, identical and



mutually independent asymmetrical rims, each adapted to retain a tire upon the seating of a detachable flange in the said gutter.

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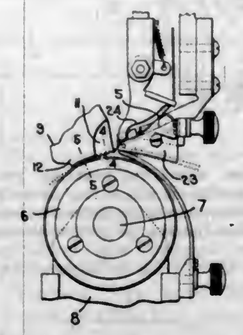
1,691,492. AUTOMOBILE BUMPER. WILLIAM NICHOLAS, Bellevue, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Nov. 12, 1926. Serial No. 147,906: 5 Claims. (Cl. 293—55.)



4. Bumper structure, comprising a pair of vertically-spaced impact bars one of which has a recess in its outer edge, and a fitting member secured to said bars and having an offset portion fitting within said recess.

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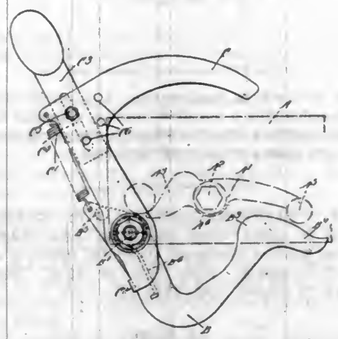
1,691,493. SEAM-PRESSING MACHINE. WALTER P. OSGOOD, Malden, Mass., assignor to Boston Machine Works Company, Lynn, Mass., a Corporation of Massachusetts. Filed Dec. 30, 1927. Serial No. 243,733. 2 Claims. (Cl. 12—51.)



1. In a seam-pressing and tape-applying machine, the combination with a work support over which is fed work in the form of two pieces seamed together by a seam presenting a seam ridge, said work support having a groove of a size to receive the seam ridge after it is pressed or flattened, of means for laying an adhesive tape over the seam ridge as the work is fed to the machine, and an intermittently acting presser co-operating with the work support to press the seam ridge and apply the tape thereto, said presser having the portion thereof with which the seam ridge first contacts relatively narrow so that it will engage the seam ridge and press the latter into the groove, the rear portion of said presser being wider than said groove and so disposed relative to the relatively narrow portion that as the work passes under said rear portion the latter will engage the portions of the tape outside the flattened seam and press said portions of the tape against the portions of the work supported either side of the groove.

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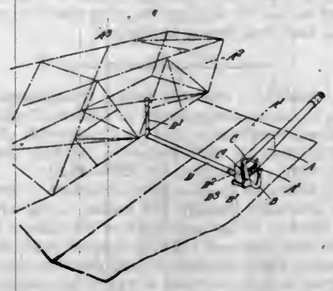
1,691,494. AUTOMATIC GUN CARRIED BY AIRCRAFT. HAROLD JAMES PAYN, Weybridge, England, assignor to Vickers Limited, Westminster, England. Filed Jan. 19, 1928, Serial No. 247,847, and in Great Britain Jan. 19, 1927. 5 Claims. (Cl. 89—2.)



1. In an automatic gun having a cocking and loading lever under the control of the gunner and serving when actuated to reproduce the movements of the barrel and the gun mechanism which occur during firing; an auxiliary member movable in a direction opposite that of the lever in cocking and loading the gun to strike the crank handle of the gun and thereby cause the lock to be forced into its forward or firing position so as to insert an oversize cartridge fully into the cartridge chamber of the barrel.

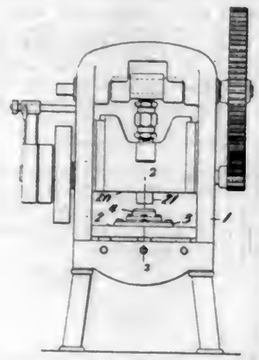
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1,691,495. AUTOMATIC GUN CARRIED BY AIRCRAFT. HAROLD JAMES PAYN, Weybridge, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed Jan. 23, 1928, Serial No. 248,900, and in Great Britain Jan. 19, 1927. 3 Claims. (Cl. 89—40.)



1. In an automatic gun, a cocking and loading lever for reproducing manually movements of the gun mechanism that occur during operation of the gun, an operating handle remotely located with respect to the gun, and a rigid connection between said handle and the cocking and loading lever.

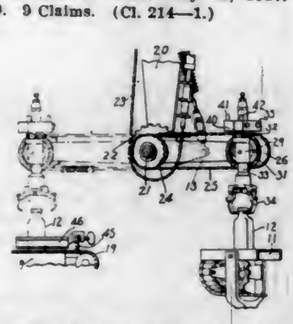
1,691,496. PRESS FOR DRAWING SHEET METAL. CHARLES JOSEPH RHODES, Wakefield, England. Filed June 24, 1927, Serial No. 201,185, and in Great Britain Feb. 12, 1927. 13 Claims. (Cl. 113—46.)



12. In a press in combination, a movable die and a fixed die embodying a movable forming ping and means to move the plug in a direction opposite the movement of the movable die upon actuation of the latter.

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1,691,497. TRANSFER DEVICE FOR GLASSWARE. GEORGE E. ROWE, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed July 23, 1927. Serial No. 207,849. 9 Claims. (Cl. 214—1.)



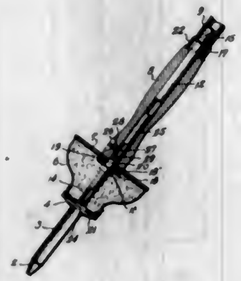
1. In a device for transferring glassware from a receiving station to a delivery station, means for gripping the ware, means for revolving it about a horizontal axis to transfer it from the receiving station to the delivery station, and means for rotating the ware about its vertical axis during such tranferring movement.

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1,691,498. NOZZLE. SOLOMON SACHS, Washington, D. C., assignor, by mesne assignments, to Utilities Corporation of Maryland, Washington, D. C., a Corporation of Maryland. Filed May 11, 1927, Serial No. 190,473. Renewed Sept. 26, 1928. 4 Claims. (Cl. 299—112.)

1. In a device of the character described, a nozzle, a rigid tube extending through the nozzle, a pin arranged across the interior of the outlet end of the tube, a flexible hose within the tube and abutting against said pin, said pin preventing water passing through the hose from driving the latter out of the tube, a handle surrounding the tube and arranged exteriorly of the nozzle, said hose extending into the portion of the tube which is surrounded by the handle means extending through the tube and handle and engaging the hose for use in compressing the latter, and a supply hose connected to said tube.

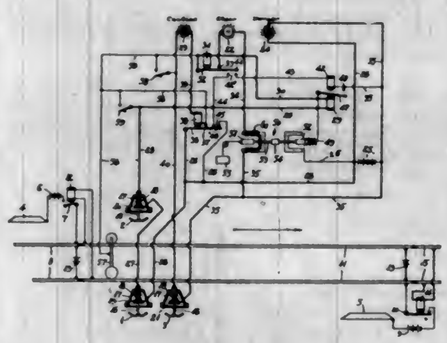
4. In combination, a nozzle having an apertured end, a rigid tube extending through the aperture in the end of the nozzle and having threads arranged within the nozzle, a handle through which the tube extends, means at the outlet end of the handle for limiting the movement thereof in one direction on the tube, a packing washer arranged on the tube between the handle and the apertured end of the nozzle, another packing washer on the tube and abutting the inner surface of the apertured end of the nozzle, a nut engaging the threads of the tube for securing the



handle to the nozzle and for compressing the packing, a pin extending across the interior of the outlet end of the tube, a flexible hose within the tube and abutting against said pin for preventing the hose from being driven out of the tube by water flowing through the latter, said hose extending into the portion of the tube surrounded by the handle and means for compressing said hose within the handle, said last mentioned means having a part projecting through the handle.

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1,691,499. AUTOMATIC TRAIN CONTROL. DANIEL HERBERT SCHWEYER, Easton, Pa. Filed Dec. 24, 1924. Serial No. 757,835. 10 Claims. (Cl. 246—180.)



1. Train control apparatus including two normally closed electrical vehicle circuits having normally energized visual signal devices therein for different controlling conditions, and means, having cooperable elements on the vehicle and track, controlling said circuits when passing control locations of the track for deenergizing either one or both of said devices.

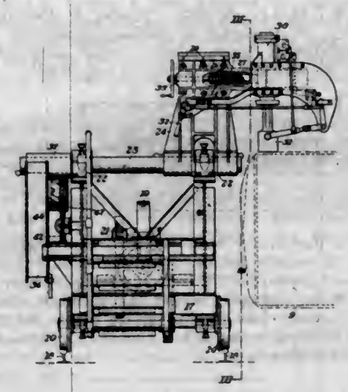
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1,691,500. DYEING OF WOOL AND/OR SILK. CECIL SHAW, Huddersfield, England. Filed Nov. 7, 1927, Serial No. 231,776, and in Great Britain Nov. 26, 1926. 2 Claims. (Cl. 8—5.)

1. In the dyeing of wool and/or silk, the employment of dyestuffs of water-soluble 1.4 dihydroxy-2.5 dihalogenbenzoquinones applied from an acid dye bath.



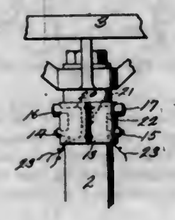
1,691,501. WELDING APPARATUS. WILLIAM P. SHIPMAN, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Apr. 17, 1925. Serial No. 23,837. 4 Claims. (Cl. 78—84.)



1. Welding apparatus, comprising a frame, a shaft rotatably mounted therein, a hammer connected to said shaft for rotation therewith and mounted laterally of said shaft for effective impact movement radially toward the axis of said shaft, and means for operating said hammer.

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1,691,502. VEHICLE DIRECTION SIGNAL. HIRAM L. SNYDER, St. Louis, Mo. Filed Apr. 14, 1926. Serial No. 101,950. 2 Claims. (Cl. 177—311.)

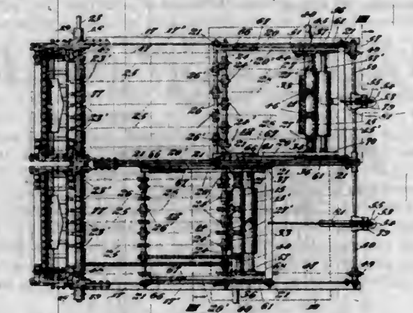


1. The combination with a steering column, a sleeve carried by said column adjacent its upper end, indicating lamps carried by opposite sides of said sleeve, circuit makers and breakers carried by opposite sides of said sleeve below the respective indicating lamps, said circuit makers and breakers controlling circuits to the lamp.

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1,691,503. METHOD AND APPARATUS FOR HANDLING SHEET MATERIAL. LAWRENCE C. STEELE, Baltimore, Md. Filed Oct. 4, 1924. Serial No. 741,064. 14 Claims. (Cl. 271—27.)

1. In apparatus for conveying sheets from a pack resting on edge, the combination of a frame, a conveyor movable endwise of the frame and including movable conveyor elements, a depending roller carried by the forward end of the conveyor and adapted to contact laterally with the sheets and to adhere thereto with sufficient force to raise the sheets and to feed them to the conveyor, a driving sprocket for the roller, a pair of sprockets on the conveyor, a sprocket chain having one side engaging over the con-



veyor sprockets, passing therebetween, and looping over the roller sprocket, whereby the tension in said chain is effective to pull the roller into contact with the sheets.

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1,691,504. MUCIN-SOLVENT TOOTH PASTE. CLARENCE C. VOGT, Pittsburgh, Pa., assignor to Glenn F. Bowman, Oakmont Borough, Pa. Filed Aug. 12, 1926. Serial No. 128,914. 11 Claims. (Cl. 167—9.)

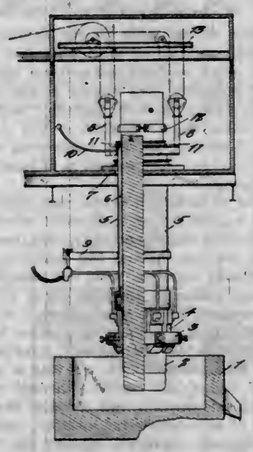
1. A mucin-dissolving tooth paste containing powdered abrasive, soap, glycerine and trisodium phosphate.

3. A mucin-dissolving tooth paste, containing a powdered abrasive, soap, glycerine and a mucin-dissolving compound of an alkali metal which produces in water solution a PH value greater than that which would be produced by the soap alone.

6. The method of making the herein described tooth paste which consists in dissolving trisodium phosphate in glycerine, thereafter adding to the mixture soap and a powdered abrasive, and thoroughly mixing the materials.

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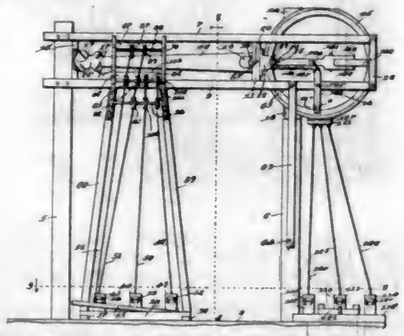
1,691,505. ELECTRODE. MARTIN WALTHER, Oslo, Norway, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Oslo, Norway. Filed May 14, 1926. Serial No. 109,190, and in Norway May 15, 1925. 14 Claims. (Cl. 266—1.6.)



1. The combination of an electrode baked while in use in the electric furnace, and having a mantle enveloping the electrode mass, an electrode holder, and a casing sur-

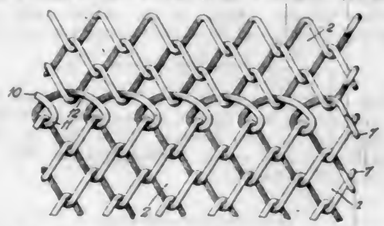
rounding and spaced from the mantle, and arranged above the electrode holder, the mantle together with the electrode therein contained being movable longitudinally with respect to the casing.

1,691,506. STRINGED-INSTRUMENT PLAYER. JOEL B. WOLFE, Fruitland, Wash. Filed Nov. 27, 1925. Serial No. 71,768. 12 Claims. (Cl. 84—320.)



1. In a means for playing a stringed instrument having a sounding body and a neck, a frame for holding the instrument, pedal operated mechanism on said frame for plucking the strings abreast of the sounding body, and pedal operated mechanism for pressing and stopping the strings along the neck of the instrument, said last named mechanism being slidably mounted on said frame for movement to different positions along the instrument's neck.

1,691,507. WOVEN-WIRE FABRIC AND METHOD OF MAKING IT. JOHN C. ANDERSON, Keyport, N. J. Filed Jan. 28, 1925. Serial No. 5,281. 6 Claims. (Cl. 245—6.)

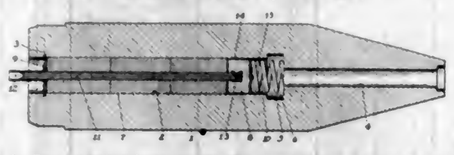


1. A sectional woven wire fabric having unconfined outer edges and composed of sections woven from right-hand coils and other sections woven from left-hand coils, and connecting members each having means for engaging and holding the end coils of the adjacent sections in substantially the same space relation as the corresponding coils within each section, thereby connecting said sections so that their unconfined outer edges are in substantial alinement with one another.

3. The method of making a woven wire fabric that comprises weaving a plurality of sections of wire fabric composed of coils having right-hand curvature, weaving a plurality of other sections having left-hand curvature, and joining said sections together, with the right and left sections alternating and with the side edges of all of said sections in alinement, by placing adjacent to the end of each successive section a connecting member having openings which are alternately adapted to interengage with the right and left wires respectively, weaving a wire similar to the wires of one of said sections through the loops of the end wire of said section and through the proper set of the openings of said connecting member, and then weaving a wire of opposite curvature through the loops of the end wire of the next section and through the remaining openings of said connecting member.

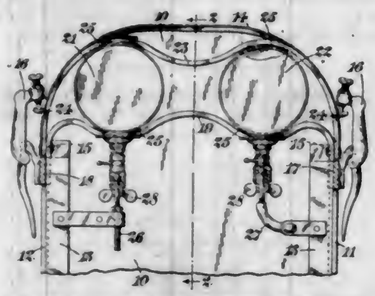
5. A joint for connecting sections of right-woven and left-woven wire fabric, comprising a connecting wire formed into sets of loops on opposite sides of said wire, the set of loops on one side of said connecting wire being interengaged with the loops of the end-wires of the right-woven section, and the set of loops on the other side of said connecting wire being interengaged with the loops of the end wires of the left-woven section.

1,691,508. FLOAT LIGHT. ROBERT J. ANDERSON, Sewickley, Pa., assignor to National Fireworks, Inc., a Corporation of Massachusetts. Filed June 23, 1927. Serial No. 200,792. 6 Claims. (Cl. 9—8.3.)



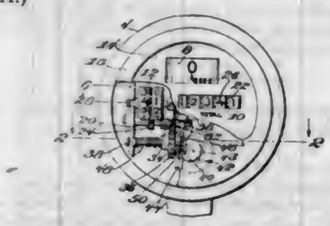
1. In a pyrotechnic torch the combination with a body adapted to contain and carry the charge as it burns and to that end possessing a charge-containing chamber formed within it, an abutment within the chamber adapted to sustain a charge, and yielding means within the chamber adapted to engage a charge and hold it as it burns to place upon said abutment.

1,691,509. TANK FOR INFLAMMABLE LIQUIDS. PERCY BENJAMIN ASHWORTH, Cam, England, assignor to R. A. Lister & Company, Limited, Kursley, Gloucestershire, England, a British Company. Filed Feb. 4, 1928, Serial No. 251,926, and in Great Britain Apr. 7, 1927. 6 Claims. (Cl. 280—5.)



1. A housing for a tank containing inflammable liquid that is supplied from said tank to an internal-combustion engine, comprising a removable closure-member for the housing and a bracket within said housing so arranged that the tank is gripped between the closure-member and the bracket when the housing is closed, but released when it is open.

1,691,510. ODOMETER. ALBERT L. BARRETT, Dorchester, Mass., assignor to Standard Thermometer Company, Roxbury, Mass., a Corporation of Maine. Filed Aug. 6, 1925. Serial No. 48,477. 1 Claim. (Cl. 235—144.)



An odometer having, in combination, a counter supporting shaft, total and trip counter on the shaft, one of the wheels of the total counter being connected to rotate the shaft, an advancing gear shaft, two adjacent pinions loosely mounted on the advancing gear shaft, connections between one of the pinions and the counter supporting shaft, the other pinion connecting with the trip counter, an intermediate gear normally meshing with both of the adjacent gears and having a cam surface, a shaft on which the intermediate gear is mounted, a resetting button having a gear adapted to engage with the intermediate gear and provided with a flange to engage with the cam whereby the intermediate gear may be disengaged from the first of said pinions and rotated independently of the total counter to reset the trip counter.



1,691,511. PROCESS OF MAKING CHEMICAL PULP. JOHN S. BATES, Bathurst, New Brunswick, Canada. Filed Mar. 2, 1925. Serial No. 12,546. 21 Claims. (Cl. 23—185.)

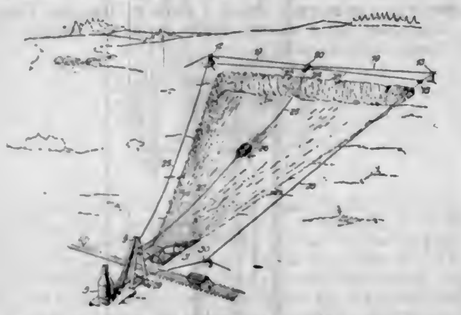
1. In the manufacture of chemical pulp, the steps of settling kraft green liquor; separating the supernatant clear liquor from the underlying dregs; and causticizing the clear liquor.

1,691,512. FASTENING DEVICE FOR ADJUSTABLE SKI EARS. RASMUS BERGE, Oslo, Norway, assignor to A. Gresvig, Oslo, Norway. Filed Nov. 26, 1926, Serial No. 150,973, and in Norway Nov. 28, 1925. 2 Claims. (Cl. 208—184.)



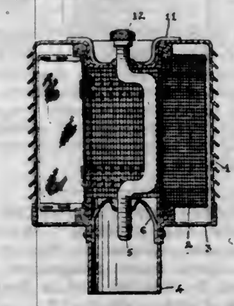
1. A fastening device for ski-ears comprising a toe-plate having an upturned flange, said plate being provided with a circular aperture, a disk cooperating with said aperture, and means for securing said disk to the ski, said means being positioned eccentrically with respect to said aperture to permit adjustment of the plate.

1,691,513. LOADING AND DUMPING DEVICE. IRA EDWIN BURKETT. Macon, Ga. Filed Apr. 2, 1924. Serial No. 703,767. 1 Claim. (Cl. 214—105.)



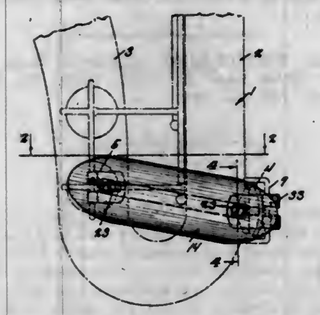
In a loading and dumping device, the combination of a scraper, pulling cables attached respectively to the front and rear of said scraper and secured to take-up and let-out devices located at a predetermined point for drawing the scraper forward and backward; a standing cable extended at a substantial angle to a mesne line of movement of the scraper between fixable anchorages remote from said take-up and let-out devices; a cable carrier mounted to move along said standing cable from end to end of the latter and having a pulley over which the backward pulling cable of the scraper passes for drawing the latter to its limit of backward movement, a pulley connected with one of said anchorages over which said backward pulling cable directly passes from the cable carrier to its take-up and let-out device; a holding cable having one end fixed to the cable carrier and its other end secured to a take-up and let-out device at said predetermined point of control for holding and shifting said carrier to the point along a line from which the scraper movement is desired; a pulley connected to the other of said anchorages over which said holding cable passes direct from said cable carrier to its take-up and let-out device for holding the carrier normally stationary from a point adjacent one limit of the latter's movement along said standing cable; means for upsetting and dumping the scraper along its variably directable line of movement; and power-driven means associated with said take-up and let-out devices for selectively operating the latter to reel and unreel said pulling and holding cables from said predetermined point of control remote from the operative area of said scraper, substantially as described.

1,691,514. MEANS FOR CLEANING FILTERS. LEWIS L. DOLLINGER, Rochester, N. Y., assignor to Staynew Filter Corporation, Rochester, N. Y., a Corporation of New York. Filed Apr. 12, 1926. Serial No. 101,294. 4 Claims. (Cl. 183—61.)



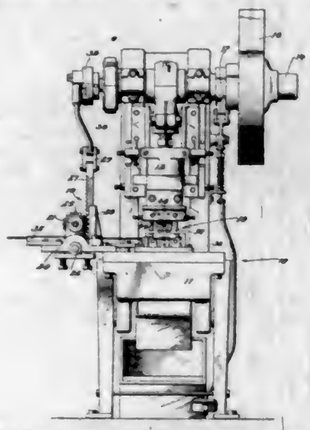
1. In a filter, the combination of a casing having an inlet, a continuous filtering screen mounted within said casing and having an outlet, a draw bolt projecting into said filtering screen from one end of said casing and adapted to clamp said filtering screen in place in said casing, an air duct in said draw bolt having an inlet at one end, an outlet in the side of said draw bolt, said draw bolt being adapted to be rotated to direct said outlets in said draw bolt progressively over sectional areas of the inside of the continuous filtering screen.

1,691,515. REST ATTACHMENT FOR SAXOPHONES. FRANK L. GESFORD, Alturas, Calif. Filed Mar. 15, 1927. Serial No. 175,575. 12 Claims. (Cl. 84—385.)



1. The combination with a valved wind musical instrument of the saxophone type including the usual valves, of a rest position in outwardly spaced relation to one of the valves and constituting a guard therefor.

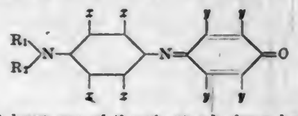
1,691,516. MACHINE FOR MAKING HAIRPINS. HARRY V. GLOBE, Oakland, Calif., assignor, by direct and mesne assignments, to Veitch Manufacturing Company, a Corporation of Nevada. Filed Sept. 7, 1926. Serial No. 133,833. 5 Claims. (Cl. 140—87.)



1. A die for forming a hairpin comprising a stationary die part, a reciprocable die part, supporting means for supporting a billet of material intermediate the die parts in position to be operated upon thereby, cooperative means on the die parts for shearing the material to proper length, removing the supporting means and forming the hairpin in a continuous operation.

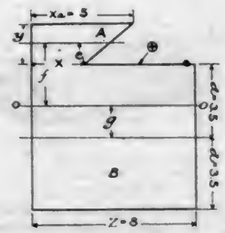
1,691,517. PROCESS FOR THE DYEING OF CELLULOSE ESTERS AND ETHERS. ARMIN GOESCHKE, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 4, 1926, Serial No. 146,283, and in Switzerland Nov. 14, 1925. 24 Claims. (Cl. 8—5.2.)

1. A process for the dyeing of a group of cellulose derivatives comprising cellulose esters and ethers which consists in dyeing this material with indophenols which may be represented by the general formula:



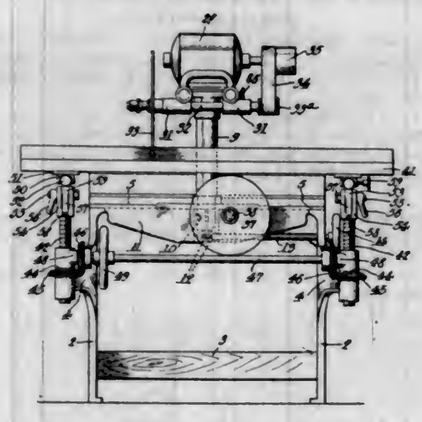
wherein at least one of the *y*'s stands for a halogen atom and wherein the other *y*'s mean halogen atoms or hydrogen atoms, the *x*'s representing hydrogen atoms or substituents which contain at the most two carbon atoms and $R_1$ and $R_2$ a hydrogen atom, alkyl, aryl or aralkyl residues.

1,691,518. PISTON RING. ELBERT J. HALL, Berkeley, Calif. Filed Sept. 22, 1925. Serial No. 57,932. 7 Claims. (Cl. 74—109.)



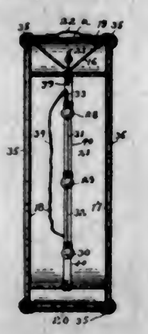
1. A wear compensated piston ring having an outer cylinder wall engaging surface, an undercut therefrom to provide an inward taper adapted as the ring wears in thickness to simultaneously reduce the area of the cylinder wall engaging surface, the angle of the undercut being such as to maintain approximately constant the pressure per unit area exerted by the ring on the cylinder wall throughout the life of the ring.

1,691,519. WOODWORKING MACHINE. MACKINTOSH HUTCHINSON, Philadelphia, Pa. Filed Apr. 12, 1922. Serial No. 551,892. 4 Claims. (Cl. 144—3.)



1. In a woodworking machine comprising a saw and means for driving the same; a work supporting table beneath the saw, a track upon which the table is adjustable laterally, spaced apart screws with which said track is connected for raising and lowering the table, two-part member sleeves through which the screws pass, nuts in threaded engagement with said screws and disposed between the members of the sleeves, gears connected to said nuts, and a counter-shaft fitting at opposite ends in sockets formed as a part of the two-part member sleeves provided with gears coacting with the gears of said nuts for simultaneously adjusting both screws for raising or lowering the table.

1,691,520. ELECTRIC SIGN. JOHN F. IRELAND, Pennville, Ind. Filed May 31, 1927. Serial No. 195,267. 1 Claim. (Cl. 40—132.)

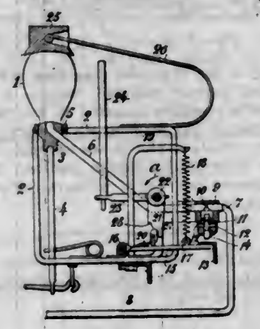


A sign comprising in combination, two side members identical with each other and spaced apart parallel with each other and formed of metal tubing, cross members rigidly connecting said side members and together with the side members forming a skeleton frame-work, a shaft secured to the upper cross members and located midway of and parallel with said side members and extending out



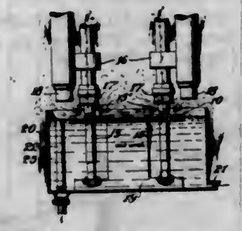
therefrom at one end, an eye bolt mounted on said shaft, a brace strip secured at its ends to two of the lower cross members with its central portion attached to said eye bolt, fabric covering said framework and secured thereto, transparent material known as aeroplane dope applied to said fabric, advertising matter applied to said fabric, means for adjustably suspending the sign by said shaft, electric light fixtures located between said two sides of the frame, means for conducting electric current through said fixtures, and means for reinforcing the edges of the sign, all substantially as set forth.

1,691,521. RACING GAME VALVE. THOMAS CHRISTIAN JENSEN, Copenhagen, Denmark. Filed Aug. 1, 1927. Serial No. 209,991. 2 Claims. (Cl. 273—86.)



1. In a game with a series of inflatable dolls, a rail, above this rail a series of valves, adapted to be opened when said rail is lifted, said rail fitted on arms held down by a cam rail on a shaft operatable under action of the exploding of a doll, springs adapted to lift said arms, on the said cam being turned.

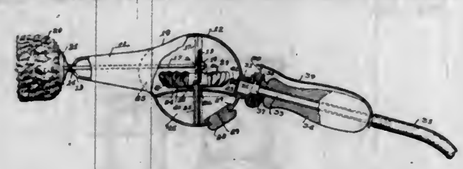
1,691,522. METHOD OF ELECTRIC RIVETING. FRANK P. KOBERT, Amityville, N. Y. Filed Jan. 22, 1921, Serial No. 439,191. Renewed Mar. 23, 1928. 4 Claims. (Cl. 219—2.)



1. The method of assembling metal articles by electric riveting which comprises positioning a plurality of metal rivets in a metal piece, passing electric current through the heads of said rivets and through said piece so as to heat said heads locally without substantially heating the shanks of said rivets while dissipating the heat from said shanks by cooling the same, and thereafter heading said rivets so as to hot forge said heads over and into said piece.

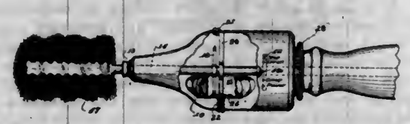
1,691,523. WASHING MACHINE. OTHMAR MAYCEN, New York, N. Y. Filed May 9, 1927. Serial No. 189,952. 7 Claims. (Cl. 15—29.)

1. In a washing machine the combination comprising a hollow shell having a pointed end, a rotary shaft projecting from said shell at its pointed end, gearing means secured to said shaft, a bracket to serve as a journal for said rotary shaft, gearing means engaging the gearing on said rotary shaft, water actuated means driving said gearing means, a plate with an aperture dividing off a compartment within the shell, an entrance into said compartment, means to close



said entrance, means to supply water to the water actuated means, and a wiper detachably secured to the end of the shaft projecting from the shell.

1,691,524. WASHING MACHINE. OTHMAR MAYCEN, New York, N. Y. Filed June 20, 1927. Serial No. 200,172. 13 Claims. (Cl. 15—24.)



1. In a washing machine the combination of a bottle shaped shell open at its large end, an axially disposed hollow rotary tool shaft, projecting from said shell at its neck and mounted within the shell, gearing secured to said shaft, water actuated means engaging said gearing, a compartment tightly inserted into and held within the rear part of the aforesaid shell, an opening in the outside wall and a central aperture in the inside wall of said compartment opening into said shell, a handle detachably secured in the opening of the outside wall, a tube passing through said handle and being adapted to be connected to a water supply and terminating closely to aforesaid aperture, another aperture in the inside wall of aforesaid compartment for directing a stream of water against said water actuated means, a slot in the side of the shell, a plate valve for controlling the flow of the water, rotatably secured to the inside wall of the compartment, and a double spiral brush attached to the front of the hollow tool shaft.

1,691,525. CLOSURE FOR BOTTLES. ANTHONY F. MCDONNELL, Dunmore, Pa., assignor of one-third to William Aloysius Quinn, Scranton, Pa. Filed Apr. 17, 1928. Serial No. 270,748. 1 Claim. (Cl. 215—39.)



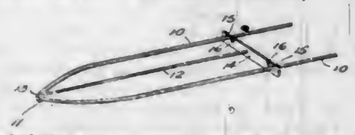
A bottle or other container having its neck formed with beads whose upper sides form shoulders inclined upwardly and peripherally toward the mouth and whose outer sides form parts inclined upwardly and outwardly toward the mouth, so that the upwardly and peripherally inclined shoulders will engage the inward projections of a cap crimped or contracted thereon and lift the cap off the neck when turned, and the outwardly inclined parts will assist in locking the cap when contracted on the neck, and ease its lifting by the shoulders when it is turned.

1,691,526. CLOSURE FOR CONTAINERS. ANTHONY FRANCIS MCDONNELL, Dunmore, Pa., assignor of one-third to William Aloysius Quinn, Scranton, Pa. Filed Apr. 17, 1928. Serial No. 270,749. 2 Claims. (Cl. 215—39.)



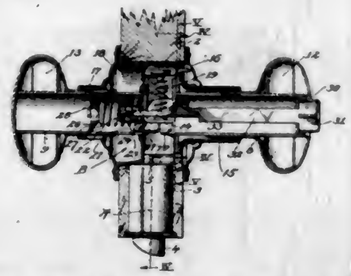
1. A bottle or other container having its neck formed with shoulders inclined peripherally and upwardly toward the mouth and arranged in pairs converging downwardly so as to be engaged by intervening inward projections on the rim of the cap and lift the cap when turned in either direction, and with parts intervening the shoulders inclined outwardly and upwardly toward the mouth to engage and lock the cap-rim contracted around the neck and to expand the rim when the cap is lifted by the inclined shoulders.

1,691,527. KNITTING FRAME. HIDEICHI SAKURAI and TARANO SAKURAI, Seattle, Wash. Filed May 27, 1926. Serial No. 111,977. 3 Claims. (Cl. 66—1.)



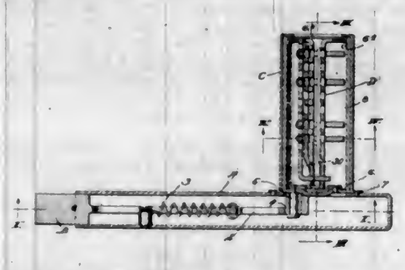
2. A knitting device comprising a frame having a substantially U-shaped member, a bar member located intermediate the length thereof and connected to said arms to retain the same parallel with each other, and a rod rigidly secured at one end thereof to said bar and connected at its other end to the first named member at the bend thereof.

1,691,528. DOOR LATCH. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a Corporation of California. Filed Mar. 6, 1926. Serial No. 92,703. 18 Claims. (Cl. 292—169.)



1. In a latch of the character described, a housing, a bolt mounted therein, an inner and an outer knob journalled in the housing, means actuated by each knob whereby the bolt may be retracted and means carried by the inner knob whereby the outer knob and bolt actuating mechanism is released so as to be free to rotate without retracting the bolt.

1,691,529. KEY LOCK. WALTER R. SCHLAGE, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a Corporation of California. Filed Jan. 24, 1927. Serial No. 163,024. 7 Claims. (Cl. 70—46.)



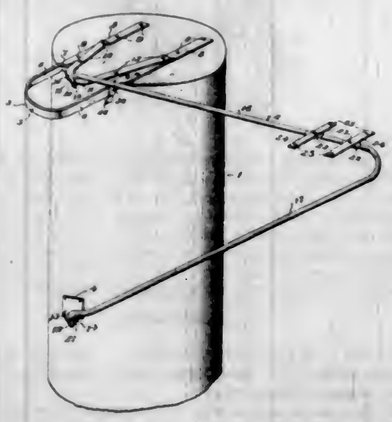
1. In a lock of the character described, a housing, a rotatable tumbler carrier mounted therein, a plurality of radially movable tumblers mounted in the carrier, means in opposite sides of the housing with which the tumblers are adapted to interlock, and means engaging the tumblers and normally maintaining certain tumblers projected for locking engagement and other tumblers retracted and out of locking engagement.

1,691,530. GLASS-TUBE CUTTER. FRANK A. SLAYTON, Waskom, Tex. Filed Nov. 18, 1926. Serial No. 149,228. 1 Claim. (Cl. 49—52.)



A glass cutting tool comprising a pair of parallel rods with hardened steel rollers at their ends movable transversely at the edges of the rods, a bow spring controlling the resiliency of the rods, a grooved annular spacer between the rods, and an adjustable clamp to vary the pressure of cutting movable relative to the spacer.

1,691,531. ADJUSTABLE MAIL-BOX SUPPORT. JAMES A. SLUSS, Knoxville, Tenn. Filed Apr. 26, 1927. Serial No. 186,753. 8 Claims. (Cl. 232—40.)



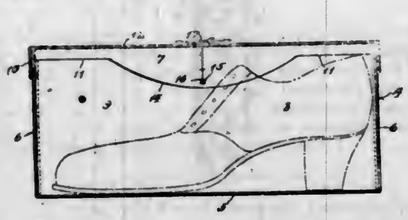
1. A device of the character described comprising a standard, a support, means carried by the standard and loosely engaged by the support to pivotally connect the support with said standard for movement in a horizontal plane, a bracket extending from said standard beneath a portion of said support to brace the support, and a latch movably connected with said bracket and adapted to be moved into and out of position to engage said support and releasably hold the support in a set position.



1,691,532. SOLDER FOR ALUMINUM. OSKAR SPENGLER, Dessau in Anhalt, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Filed July 13, 1925, Serial No. 43,399, and in Germany Sept. 24, 1924. 2 Claims. (Cl. 75—1.)

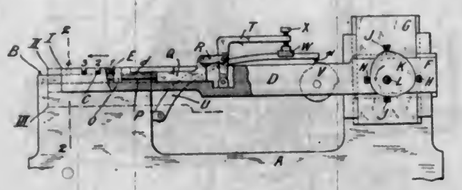
1. As a solder for aluminum, an alloy comprising about 85–95% aluminum and about 5–15% of silicon.

1,691,533. SHOE BOX. DELMAR ALBERT STEVENS, Chicago, Ill. Filed May 28, 1927. Serial No. 194,961. 3 Claims. (Cl. 229—15.)



1. A shoe box having a width and length for accommodating a pair of shoes side by side and resting upon the soles and heels in an upright position, a cover for the box, a longitudinal fixed partition within the box for forming a compartment for each shoe, a central recess in the upper edge of the partition so arranged as to allow easy accessibility to the shoes when removing them from the box.

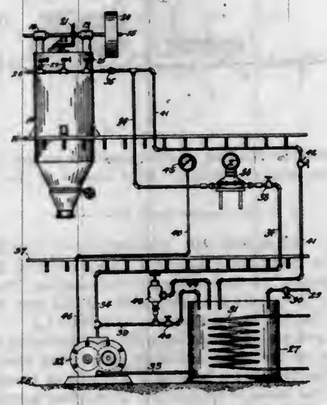
1,691,534. MACHINE FOR THE MANUFACTURE OF FISHHOOKS. MATHIAS TOPP, Gjovik, Norway, assignor to O. Mustad & Son, Oslo, Norway. Filed Jan. 21, 1926, Serial No. 82,820, and in Germany Jan. 24, 1925. 10 Claims. (Cl. 29—9.)



1. In a machine for making fish hooks, a horizontal work surface for supporting the hook blanks, a blank feeder extending along one side of said surface and having notches therein for the reception of the blanks, means in the feeder for clamping the blanks in the notches, means to impart to the feeder a reciprocating motion in rectilinear directions comprising a slide in which said feeder is mounted, and means to move the feeder horizontally in the slide and to move the latter vertically between the movements of the feeder.

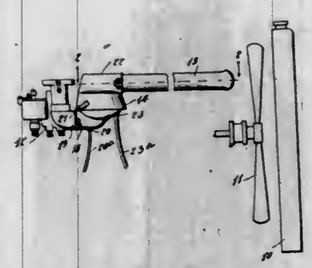
1,691,535. APPARATUS FOR MIXING DRY AND LIQUID MATERIALS. LIONEL TRUE, Springville, N. Y. Filed Feb. 23, 1928. Serial No. 256,174. 21 Claims. (Cl. 259—23.)

1. An apparatus of the character described comprising in combination with a mixing chamber having means therein for mixing dry pulverulent materials; means for distributively supplying liquid to the interior of the chamber for mixture with the dry materials mixing therein, said means including a plurality of delivery nozzles discharging into



different parts of said chamber from points above the materials under mixing operation, a reservoir tank for liquid to be supplied through said nozzles, a pump for forcing the liquid from said tank to the nozzles, and means for heating the liquid in the tank.

1,691,536. AIR CLEANER. CHARLES A. WINSLOW, Vallejo, and ELBERT J. HALL, Berkeley, Calif. Filed Sept. 25, 1924. Serial No. 739,960. 10 Claims. (Cl. 183—82.)

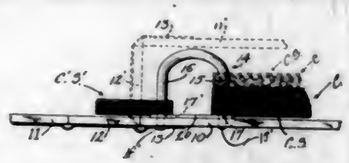


1. An air cleaner of the character specified comprising a casing having an air inlet at one end and an air outlet at the opposite end and an opening adjacent the outlet for the escape of impurities eliminated from the air, a nozzle within the outlet end of the casing and a cooperating petticoat within the inlet end of the casing, said parts serving to deflect the air from a straight course to assist materially in the separation of the impurities therefrom.

1,691,537. FLAT-FOLD BINDER DEVICE. WILLIAM J. WRIGHT and ARTHUR S. WHITEHEAD, Seattle, Wash. Filed Feb. 7, 1927. Serial No. 166,331. 6 Claims. (Cl. 281—25.)

6. A leaf attaching clip of an inverted U-shape having each of its legs formed to provide intermediate the length thereof a shoulder and a reduced portion below the plane

of the respective shoulder, each of said reduced portions being of a substantially oblong shape in horizontal section



to facilitate the bending of the respective reduced portions of the legs in a direction at right angles to the plane of the clip.

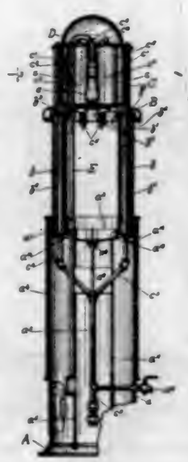
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1,691,538. PROCESS OF PRESERVING BEVERAGES. FRANK J. ANDRESS, Cincinnati, Ohio, assignor, by mesne assignments, to The Brownie Corporation, New York, N. Y., a Corporation of Delaware. Filed May 16, 1925. Serial No. 30,879. 2 Claims. (Cl. 99—1.)

1. The process of preparing milk and flavoring beverage substances of the class described comprising the steps of treating the same with hydrogen peroxide at temperatures at which the same is active as a germicidal agent, but at temperatures below which the beverage is injuriously affected, determining the acidity of the resulting product and adding an innocuous acid neutralizing agent in sufficient quantity to eliminate the acidity.

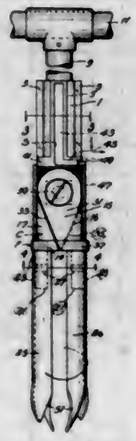
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1,691,539. VISIBLE DISPENSING APPARATUS. LINNAEUS E. BAKER, Fort Wayne, Ind., assignor to Wayne Company, Fort Wayne, Ind., a Corporation of Indiana. Filed Dec. 30, 1925. Serial No. 78,318. 4 Claims. (Cl. 221—67.)



4. In combination with a liquid dispensing apparatus, a plurality of independent transparent liquid containers in close proximity to each other, a transparent casing enclosing said containers, incandescent means between said containers and inside of said casing, illuminating and heating the liquid in said containers, and separate valve means for withdrawing liquid from each of said containers.

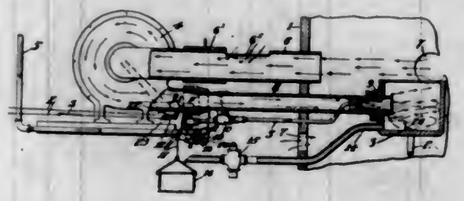
1,691,540. AUGER. THEODORE BIRKENMAIER, St. Louis, Mo., assignor to W. N. Matthews Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 9, 1926. Serial No. 128,083. 10 Claims. (Cl. 255—65.)



10. An auger comprising relatively hinged blade members cylindrically formed at the hinging portion therebetween, a locking sleeve adapted to slide over said hinge portions to lock said blades in closed position, and to slide therefrom, a tortuous guide means formed in one of the members and a lug on said sleeve adapted to slidably engage said guide means.

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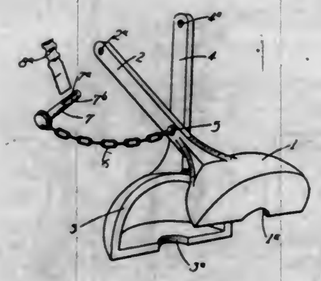
1,691,541. OIL BURNER. IWAN E. CARLSON, Watertown, and LOREN R. CHURCHILL, Wollaston, Mass. Filed Aug. 17, 1925. Serial No. 50,614. 2 Claims. (Cl. 158—28.)



1. In an oil burner, a combustion chamber adapted to be mounted within a heating plant, an air pipe delivering to said chamber, a Venturi tube in said air pipe, a fuel pipe entering said air pipe and terminating within said Venturi tube, a blower operatively connecting with said air pipe, an air intake for said blower having its inlet end disposed within the heating plant in juxtaposition to said combustion chamber, whereby the air is pre-heated before delivery to said blower, said Venturi tube entering the chamber laterally thereof whereby the mixture delivered against the chamber wall is given a swirling effect within the chamber, an automatic control for said fuel supply, and an actuating mechanism for said control operated automatically by the overflow fuel from said combustion chamber.



1,691,542. VALVE SEAL FOR REVOLUBLE-STEM VALVES. REX SCRIPPS CLARK, Norco, Calif., assignor to Norco Mfg. Co., Norco, Calif., a Corporation of California. Filed Mar. 24, 1926. Serial No. 96,045. 6 Claims. (Cl. 70—123.)



1. In an apparatus for sealing revoluble valve stems, a pair of duplicate members provided with recesses adapted to fit over the extended end of the valve stem and provided with extended arm members, means for pivotally connecting the said arm members together intermediate their ends, and means for sealing the extended ends of the said arms in alignment with each other.

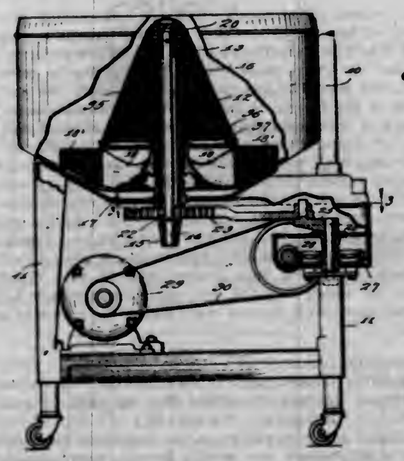
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1,691,543. COMBINED WATERPROOF AND ADHESIVE COMPOSITION. CARROLL ALBERT CRAWFORD, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 12, 1922. Serial No. 587,845. 6 Claims. (Cl. 134—15.)

1. A combined waterproof and adhesive composition consisting of paracumarone resin, carnauba wax, and raw linseed oil.
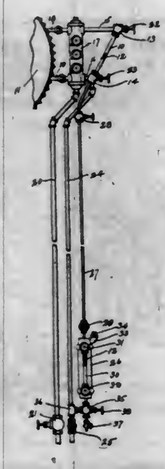
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1,691,544. WASHING MACHINE. ROBERT J. DOW, St. Paul, Minn. Filed June 11, 1926. Serial No. 115,290. 8 Claims. (Cl. 259—101.)



1. In a washing machine having a tub, an agitator oscillatable about a vertical axis in said tub, and means for oscillating said agitator, said agitator including a bowl portion adjacent to the bottom of said tub and one or more water-agitating blades which are flexible in the plane of their oscillation.

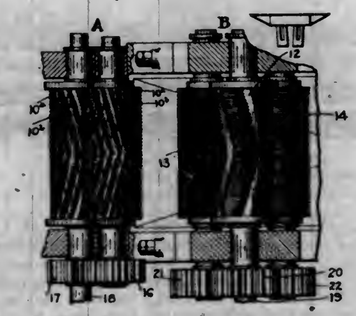
1,691,545. GAUGE-GLASS ATTACHMENT. GEORGE EARNST, Newark, N. J. Filed Dec. 17, 1925. Serial No. 76,048. 7 Claims. (Cl. 73—54.)



1. A device of the character described, including a gauge glass, heads at the upper and lower ends thereof communicating with a boiler, a reservoir containing coloring liquid positioned remotely below the lower head, means connecting said reservoir with said lower head, and means controlling the flow of liquid from said reservoir into said glass.

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1,691,546. CANE MILL. FRANKLIN FARREL, Jr., New Haven, Conn., assignor, by mesne assignments, to Farrel Birmingham Company, Incorporated, Ansonia, Conn., a Corporation of Connecticut. Filed Feb. 16, 1921. Serial No. 445,527. 2 Claims. (Cl. 100—47.)

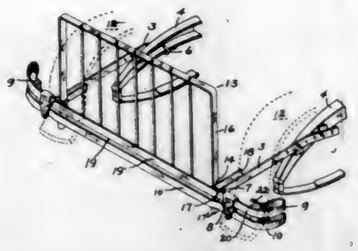



1. In a cane mill, two coacting cane crushing and juice expressing rolls, each having circumferential grooves forming ribs, the ribs of one roll adapted to mesh with those of the other roll, and each roll having generally longitudinally disposed grooves extending between the ends of said rolls and interrupting the ribs thereon to form teeth to hook into and draw in the cane, the longitudinal grooves in the upper roll having portions diverging from a point intermediate the ends of said roll in such a manner that the teeth formed at the ends of said grooves will attack the cane passing between said rolls before the teeth formed at the apex of the grooves, the longitudinal grooves in the lower roll having portions diverging from a point intermediate the ends of said rolls in such a manner that the teeth formed at the apex of said grooves will attack the

cane passing between said rolls before the teeth formed at the ends of said grooves, and means to drive said rolls, said means including means to drive one of said rolls at a greater surface speed than the other.

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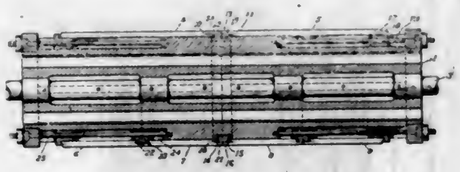
1,691,547. COMBINED BUMPER AND LUGGAGE CARRIER. ELECIE P. FARUM and EDWARD H. SPECHT, Oakland, Calif., assignors to Oakland Machinery Company, Oakland, Calif., a Corporation of California. Filed Jan. 5, 1925. Serial No. 517. 10 Claims. (Cl. 293—55.)



1. In a combined bumper and luggage carrier for automobiles, a pair of brackets adapted to be secured to the automobile, bumper extremities secured to said brackets and spaced transversely of the automobile, a pivotally mounted luggage carrier member interposed between said extremities, and a bumper secured to said extremities extending substantially from one to the other.

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1,691,548. STEREOTYPE PLATE. JOHN J. HALLIWELL, Tuckahoe, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 14, 1926. Serial No. 154,666. 3 Claims. (Cl. 101—378.)

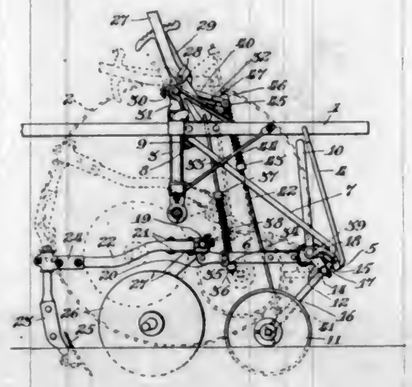


1. In a printing machine, the combination of a plate cylinder, a clamp bar extending around the cylinder and projecting above the surface thereof less than the thickness of a plate, a plurality of printing plates arranged on the cylinder and provided with adjacent shoulders engaging the bar and with abutting projections beyond the shoulders so as to form a continuous printing surface, and straight sided bars projecting above the cylinder less than the thickness of plate and extending longitudinally of the cylinder for preventing a movement of the plates around the cylinder.

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1,691,549. DISK-LISTER ATTACHMENT FOR CULTIVATORS. ROY H. KIPP, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 25, 1925. Serial No. 71,325. 7 Claims. (Cl. 97—54.)

1. A lister cultivator comprising a wheel supported frame, a pair of cultivator beams pivotally supported at their forward ends on the frame, earth working elements carried by the beams so as to operate near the rear ends of the beams, a pair of furrow guide wheels mounted on drag bars pivoted at positions spaced from the positions at which the beams are pivotally mounted, and a single lever having separate connections to a beam and a guide wheel



actuable to elevate a beam and a guide wheel differentially, the guide wheel having an angular movement about its pivot greater than the angular movement of the beam moved by the same lever.

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1,691,550. VEHICLE SPRING. SAMUEL J. LESSING, St. Joseph, Mich. Filed Feb. 23, 1926. Serial No. 89,953. 3 Claims. (Cl. 267—47.)



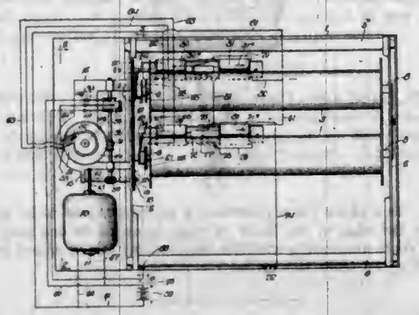
1. In leaf spring construction, the combination of a plurality of superposed leaves of different lengths having end and intermediate portions which are flat in cross section, so that the leaves engage each other flatwise in cross section, and means of interengagement between the end portions of the leaves, to hold the leaves in alinement, said means of interengagement comprising a reduced end portion forming a substantially flat tongue on the end of a leaf, and comprising opposing shoulders on the substantially flat exposed surface of the next longer leaf, disposed entirely within the width of the leaves, so that the side edges of the leaves are flush and smooth, said shoulders spaced apart a distance less than the width of the leaves and disposed in position to engage the side edges of said tongue, permitting endwise motion of said tongue between said shoulders, when the spring is flexed, but holding said tongue against lateral movement, thereby maintaining the leaves in alinement.

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1,691,551. CHANGEABLE EXHIBITOR. WELCOME C. MARTIN, Chicago, Ill. Filed May 12, 1922. Serial No. 560,410. 11 Claims. (Cl. 40—53.)

1. In a device of the character described, the combination of two reels, a web carried thereby, a live spindle for each reel, electrically actuated clutch means for each reel for connecting and disconnecting the same to and from its spindle, a motor, a gear train connecting the motor with said spindles for rotating the latter in opposite directions, means in circuit with said clutch means and controlled by the movement of the web for making and breaking the circuit through the clutch means of the winding reel, and rotary switch mechanism driven by the gear train and in said circuit and having segmental contact members of peripheral lengths proportionate to the length of the web

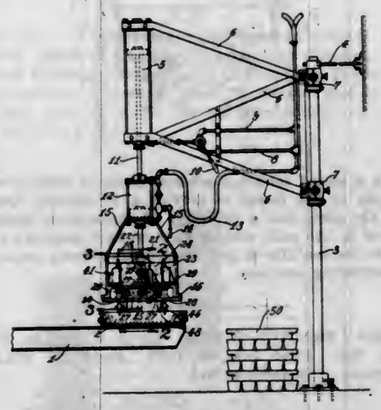




for reversing the action of said clutch means to change the direction of the movement of the web at predetermined points in its length.

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1,691,552. PIG-STACKING MACHINE. WILLIAM E. NEWNAM, Collinsville, Ill., assignor to National Lead Company, St. Louis, Mo., a Corporation of New Jersey. Filed Mar. 30, 1922. Serial No. 548,056. 16 Claims. (Cl. 214—6.)

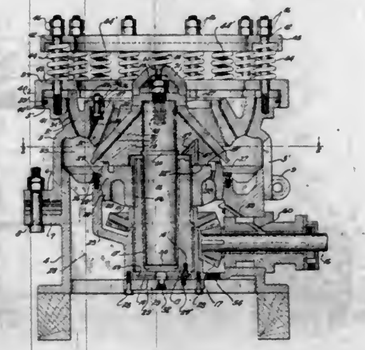


1. A device for stacking pigs, comprising, a support, a carrier, a yielding screw on said carrier adapted to penetrate the pig, and means for mounting said carrier for manipulation on said support.

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1,691,553. CRUSHER. HARVEY H. RUMPEL, Milwaukee, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 20, 1926. Serial No. 155,934. 28 Claims. (Cl. 83—10.)

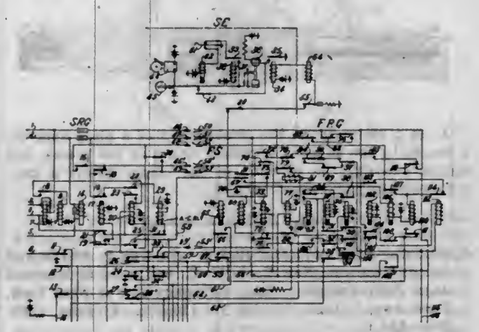
1. In a crushing machine, the combination of a frame, an eccentric member mounted therein and movable in a parallel plane, an inner crusher head mounted on the member and also movable therewith in a plane parallel to the plane of movement of the eccentric member, a fixed support upon which the inner crusher head bears, an outer crushing member spaced from the crusher head, the space between the two crushing members forming a passage for the material to be crushed, and yielding means acting to hold the outer crushing member in its normal crushing position, but permitting said crushing member to move in a direction to widen the passage between it and the crusher



head, when undue pressure is exerted against the outer crushing member by the material traveling through said passage.

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1,691,554. TELEPHONE SYSTEM. WILLIE SAVILLE, Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 29, 1926, Serial No. 105,382, and in Great Britain May 26, 1925. 14 Claims. (Cl. 179—27.)



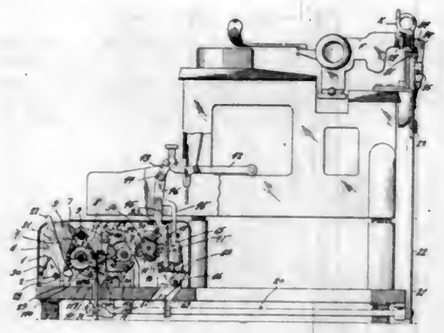
9. In a telephone system, a plurality of exchanges, subscribers' stations thereat, an observation operator's position in one of said exchanges, means for automatically connecting any one of said stations with said position upon the initiation of a call at said station, and means responsive to ringing current for automatically connecting any one of said stations to said position when said station is being called.

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1,691,555. CALCULATING MACHINE. EDWARD C. SCHINKE, St. Louis, Mo., assignor to The Accountograph Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 1, 1921. Serial No. 497,791. 10 Claims. (Cl. 235—59.)

1. The combination of a typewriter having a platen carriage, a calculating mechanism comprising an accumulator provided with an actuator and a traveling denominational carriage movable step by step to change the denominational relation of the actuator to the accumulator, and feeding devices whereby motion is transmitted from said platen carriage to said denominational carriage, said feeding devices comprising a traveling power transmission member carried by said platen carriage, a driven member through which motion is transmitted to said denominational carriage, a

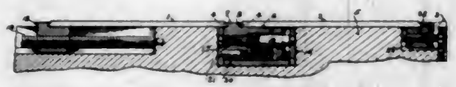
pair of abutment fingers pivoted to one of said members and extending into the path of the other member to provide for the transmission of movement to said driven member,



and automatic means whereby both of said pivoted abutment fingers are deflected laterally to prevent the transmission of movement to said driven member.

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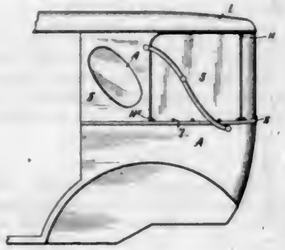
1,691,556. PLATE CLAMP. LOUIS A. SCHMIDT, Brooklyn, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed June 6, 1927. Serial No. 196,705. 7 Claims. (Cl. 101—378.)



4. In a plate clamp, the combination of a plate support, a recess in the support, a rotary clamp in the recess, and means whereby the rotation of the clamp effects a sidewise adjusting movement thereof.

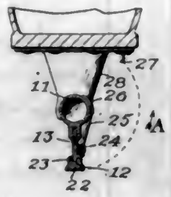
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1,691,557. AUTOMOBILE BODY. ARTHUR P. SMITH and SAMUEL EICHEL, New York, N. Y., assignors to Harvard Auto Body Company, Inc., a Corporation of New York. Filed Aug. 2, 1926. Serial No. 126,502. 1 Claim. (Cl. 296—138.)



A passenger automobile body of the laundalet type having a rear door opening on each side, a horizontal frame rearwardly of the door openings, a rigid top, a side rigid member connecting the top and horizontal frame rearwardly of each door frame, and a plurality of flexible panels in combination with interlocking means at their marginal edges and co-acting interlocking means therefor at the rear edge of each of said side rigid members and at the said rigid top and extending horizontally thereof, as and for the purpose described.

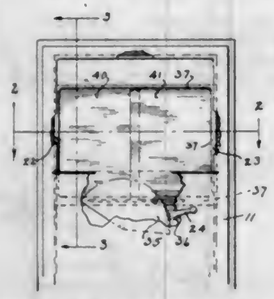
1,691,558. SKATE-BLADE PROTECTOR. ROY D. TOLMAN, Worcester, Mass. Filed Feb. 11, 1925. Serial No. 8,443. 5 Claims. (Cl. 208—183.)



1. In a skate blade protector, a guard adapted to be held over the edge of the blade by flaps attached to one side of the skate and means whereby the covering can be raised and held away from the blade.

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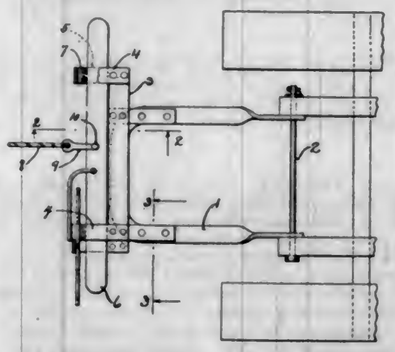
1,691,559. TWO-WAY ADJUSTABLE WINDOW. CHARLES H. WISHMEIER, near Indianapolis, Ind., assignor to Hubig Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 18, 1926. Serial No. 149,110. 2 Claims. (Cl. 296—44.)



1. In a closed vehicle a window frame, a sash movable vertically in the frame to provide a ventilating opening above the sash, and a plurality of transparent members mounted in the sash, one or more of said members being movable horizontally to provide a hand opening below the top ventilating opening.

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1,691,560. TRACTOR HITCH. LOUIS A. BASLER, Hartford, Wis. Filed Jan. 29, 1927. Serial No. 164,572. 3 Claims. (Cl. 280—33.10.)



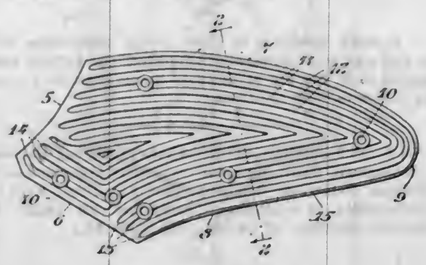
1. A tractor hitch for a trailing implement comprising a frame for attachment to a tractor, a transverse slide carried by said frame and having means for attachment to



the trailing implement, a hand lever pivotally mounted upon said frame, a link connecting said lever and said slide, and means for locking said lever in any one of a plurality of adjusted positions, said lever being formed of two pivotally joined portions having relative rocking motion, and means for locking said portions together in any one of a plurality of relative positions of adjustment.

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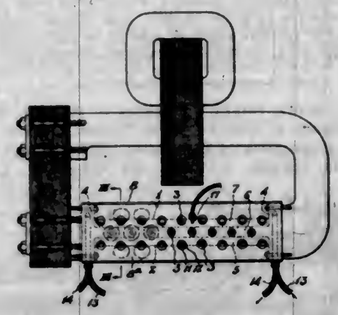
1,691,561. MOLDBOARD. WILLIAM LESLIE BEALL, Chattanooga, Tenn., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Sept. 4, 1924. Serial No. 735,736. 10 Claims. (Cl. 97—115.)



1. A cast metal moldboard having its rear or under side formed with a plurality of longitudinally extending grooves said grooves being formed in series paralleling the free edges thereof.

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1,691,562. APPARATUS FOR ELECTRICALLY HEATING METAL PARTS. RICHARD E. BISSELL, Cleveland Heights, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 17, 1926. Serial No. 148,817. 4 Claims. (Cl. 219—47.)

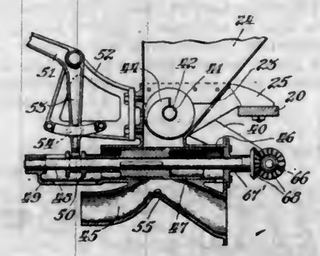


1. An apparatus for heating metal parts comprising a primary winding and a short circuited secondary unit, including a heating element having one or more recesses adapted to receive the parts to be heated and a laminated element adapted to allow for relative expansion in the other parts of said unit.

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1,691,563. POWDER-DUSTING MACHINE. LEOPOLD F. BURGER, Riverside, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 9, 1924. Serial No. 705,164. 9 Claims. (Cl. 221—137.)

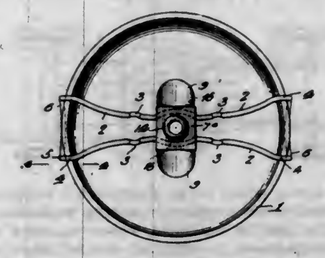
1. A dusting machine having in combination, a frame, a hopper supported thereon and provided with an opening in its bottom, feeding means in the hopper for feeding material therein to the opening, a chamber below the opening communicating with the hopper, a cutting tool in the



chamber for cutting into and discharging the material from the hopper, and means for adjusting said cutting tool to vary the quantity of material discharged thereby.

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1,691,564. SMOKER'S NOVELTY. EDWIN CALDWELL, New York, N. Y. Filed Sept. 19, 1924. Serial No. 738,597. 13 Claims. (Cl. 131—51.)



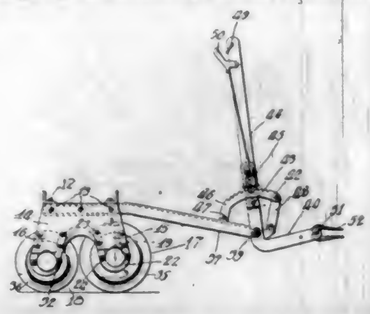
10. An ash receptacle including a tray member, a bridge comprising an elongated closed loop of resilient wire bent lengthwise to make the plane of the two stretches of wire arch-shaped and with the distance between the ends of the loop slightly less than the distance between the opposite walls of said tray and over which the ends may be sprung for support, an element having opposed hooks which may be hooked over the two longitudinal stretches of wire of the loop when said stretches are sprung toward one another, and a snuffer carried by said element having a converging passage, the walls of which are formed of good heat conducting material and the cross section of the passage at its smaller end being somewhat less than the normal cross section of a cigarette whereby when a cigarette is inserted, lighted end first, into said passage, the lighted end will be compressed in the converging passage, causing a retardation of the burning and finally extinguishment by reason of the chilling of the burning tobacco by conduction of its heat through the walls of the passage.

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1,691,565. SOIL-PULVERIZING IMPLEMENT. WILLIAM D. DEWEND, South Bend, Ind., assignor to Oliver Chilled Plow Works, a Corporation of Indiana. Filed Jan. 28, 1924. Serial No. 688,978. 4 Claims. (Cl. 55—73.)

1. In a soil pulverizing implement, the combination of a frame, front and rear pulverizing gangs operatively connected to said frame by a pair of parallel axles fixed in relation to said frame and extending from side to side thereof, a draft member rigidly secured to said frame, a supplemental draft member pivotally connected to said first

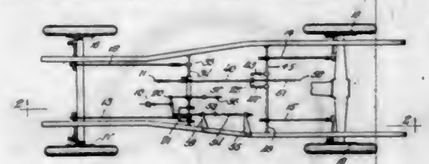
mentioned draft member and extending forwardly therefrom and being adapted to be supported at a relatively fixed height at the forward end thereof, a hand lever op-



eratively related to said draft members for adjusting said members with respect to each other to vary the pressure on said front and rear gangs.

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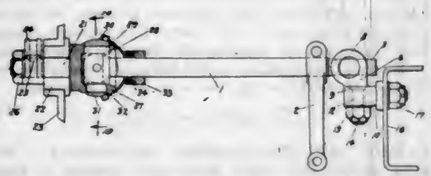
1,691,566. BRAKE. ADIELY Y. DODGE, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1924. Serial No. 697,981. 11 Claims. (Cl. 188—204.)



1. A steering wheel brake construction comprising an axle provided with a pair of steering knuckles, one at each end, a pair of steerable wheels mounted on said knuckles respectively to swing about the axis thereof, a pair of brakes for said wheels respectively and means for actuating said brakes, comprising an operating member common to both brakes, said actuating means having provisions whereby the relative braking effect on the two wheels is varied when the wheels are swung in steering, said actuating means comprising a triangular equalizing lever actuated by said common operating member.

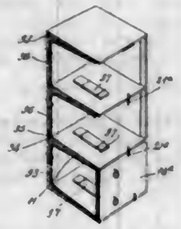
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1,691,567. CONTROL MECHANISM FOR VEHICLE WHEEL BRAKES. ADIEL Y. DODGE, South Bend, Ind., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1924. Serial No. 702,767. 10 Claims. (Cl. 188—194.)



4. In a control mechanism for vehicle wheel brakes, a control shaft, means for operating the control shaft, a support for the end of the control shaft comprising; a joint consisting of a cylindrical member having a transverse bore for the end of said control shaft, a forked carrier member supporting the cylindrical member so said shaft end passes therethrough between said forks, and means for supporting the carrier member so it may have an oscillatory movement.

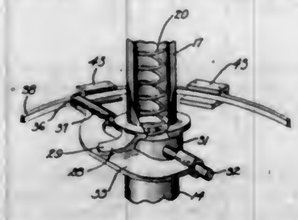
1,691,568. BURIAL VAULT. WALTER J. GORMAN, Jersey City, N. J. Filed Mar. 19, 1927. Serial No. 176,664. 7 Claims. (Cl. 72—7.)



1. A vault, L-shaped in cross section comprising back, top and end walls integrally connected, the bottom being adapted to fit the top of the next lower vault in a stack, and a door to close the front.

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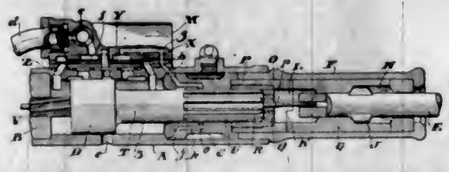
1,691,569. INDICATOR. VALENTINE FORD GREAVES, Burlingame, Calif., assignor, by mesne assignments, to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Jan. 23, 1922. Serial No. 531,079. 17 Claims. (Cl. 250—11.)



1. In a radio compass for ships or the like, means adapted to be rotated to point to a source of radiant energy, a rotatable member coaxially arranged with the first mentioned means, a tensioned member secured at opposite ends to said rotatable members respectively and tending to cause relative rotation thereof, and means controlling the amount of relative rotation operted in accordance with the position of one of the shafts relative to the ship.

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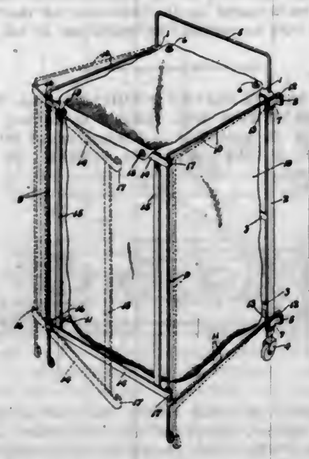
1,691,570. ROCK DRILL. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 7, 1926. Serial No. 114,232. 1 Claim. (Cl. 121—6.)



In a rock drill, the combination of a cylinder, a bushing in the front end of the cylinder, said bushing having a bore, a reciprocatory hammer piston in the cylinder, an extension on the piston slidable in the bore, said extension having flutes in its front end and a smooth cylindrical rearward portion, a valve chest on the cylinder having a valve chamber, a passage in the valve chest leading from a source of supply to the valve chamber, a throttle valve controlling the passage, and a passage leading from the valve chamber to the bore constantly exposed to pressure fluid from the valve chamber during the operation of the drill, said passage being controlled by the cylindrical portion of the extension for obtaining an uninterrupted flow of pressure fluid through the flutes during a portion of both the forward and rearward strokes of the piston.



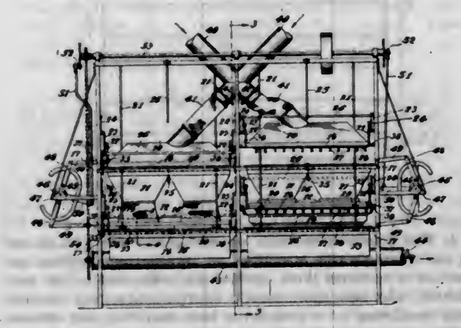
1,691,571. PORTABLE AND COLLAPSIBLE BAG HOLDER. JOHN H. HAVEN, Grand Rapids, Mich. Filed Apr. 30, 1928. Serial No. 273,821. 6 Claims. (Cl. 83—26.)



3. In a device of the class described, a rear vertical frame having spaced apart legs at its sides, castors attached to the lower ends of said legs, a side frame pivotally connected to each leg to swing about a vertical axis, interengaging means on said side frames and legs for limiting the swing of the side frames in one direction to positions substantially at right angles to the rear frame and at the front thereof, the lower outer parts of said side frames being adapted to bear upon the same support as said castors, a front frame pivotally connected at one vertical edge at the front of one of said side frames to swing about a vertical axis, hooks at the opposite vertical edge of the front frame to engage with the other side frame and detachably connect therewith, pins extending upward from the upper end of the rear frame, other pins extending forward from the front frame near the upper edge thereof, and means connected to the upper end of the rear frame adapted to be manually grasped to tilt the device to the rear upon said castors whereby it may be moved thereon.

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1,691,572. BOLTER FOR CARBON BLACK, ETC. WILLIAM S. HOSKINS, Warren, Pa., assignor to Columbian Carbon Company, Williamsport, Pa., a Corporation of Delaware. Filed Dec. 13, 1924. Serial No. 755,604. 8 Claims. (Cl. 209—405.)



1. A bolter for pulverulent material including a casing having upper and lower separable sections, a screen within said casing, a frame above said screen, brushes carried by said frame in operative relationship to said screen, means for moving said frame back and forth, guiding means for said frame carried by said upper section, lost motion connections between said guiding means and said frame and permitting relative vertical movement, whereby the weight of the brushes is supported by said screen, and means for effecting a relative vertical movement of said sections to separate them, said guiding means serving to support said frame and brushes when the casing sections are separated.

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1,691,573. PROCESS OF MAKING DIPOLYMER. IRVIN W. HUMPHREY, Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1926. Serial No. 123,812. 10 Claims. (Cl. 134—56.)

2. The process of preparing Dipolymer from pine oil which includes vaporizing pine oil and passing the vapors in intimate contact with a catalyst for such length of time and at such temperature as will effect dehydration and finally polymerization of a substantial part of the pine oil vapors to form "Dipolymer."

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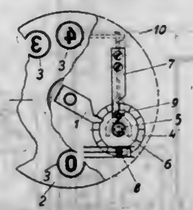
1,691,574. METHOD OF MAKING ROD PACKING. GEORGE C. JEROME, Chicago, Ill., assignor to Stewart Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Dec. 15, 1923. Serial No. 681,019. 1 Claim. (Cl. 29—156.61.)



The method of making a complete sectional rod packing or ring which comprises initially casting a plurality of sections each formed throughout to an oversize, and, without further treatment, finishing the ring by reducing each said section to the proper and identical size and shape throughout by pressing in a die whereby the sections of successively formed rings are of identical size and shape with interchangeable joint surfaces.

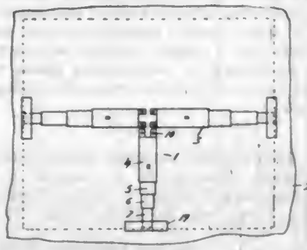
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1,691,575. IMPULSE-DIAL APPARATUS FOR AUTOMATIC TELEPHONE SYSTEMS. WILHELM KRUSE, Berlin, Germany. Filed Apr. 7, 1927, Serial No. 181,684, and in Germany Apr. 10, 1926. 3 Claims. (Cl. 179—90.)



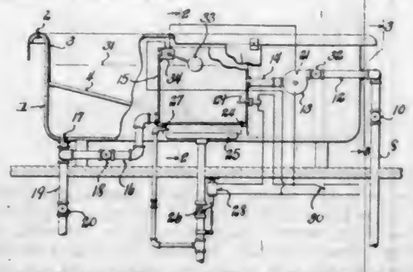
1. An impulse dial apparatus for telephone systems of the character described comprising in combination means adapted to send out a consecutive number of sets of impulses according to special indications for calling a particular subscriber, a step-by-step mechanism associated with said dial apparatus and operated once by each sending out of a set of impulses, and a spring contact short-circuiting the impulse contacts of the dial apparatus and operated by said contacting mechanism after a distinct number of sets of impulses has been sent out.

1,691,576. DISPLAY RACK. EUGENE G. LA BARRE, Detroit, Mich. Filed June 9, 1924. Serial No. 718,912. 6 Claims. (Cl. 211—17.)



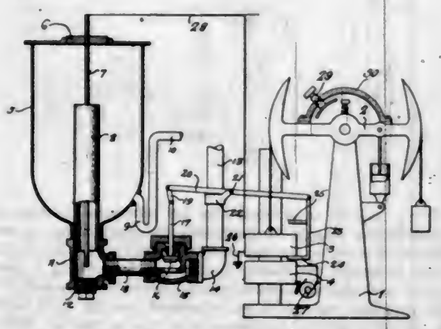
1. A display rack comprising a plurality of supporting arms, each arm having sections provided with telescopically engaged open return-bent flanges at the top and bottom edges thereof providing for variation of the combined lengths of the sections, and a laterally extending sectional elbow connected to each arm having a flange substantially parallel to said arms for holding the articles carried by said arms.

1,691,577. BATH APPARATUS. JOHN LANG, Wauwatosa, Wis. Filed Mar. 29, 1928. Serial No. 265,534. 6 Claims. (Cl. 4—172.)



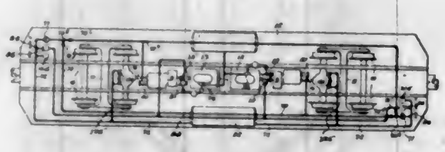
1. A bath apparatus comprising a tub adapted to receive a patient, and means for circulating a fluid through the tub, said tub having an adjustable inclined support for holding the patient in an inclined position, said support having a cut-away portion to expose the spine and the associated regions of the patient's body.

1,691,578. MEANS FOR SEPARATING ASSOCIATED LIQUIDS. CHARLES W. MCKIBBEN, Houston, Tex. Filed Apr. 8, 1926. Serial No. 100,526. 2 Claims. (Cl. 204—24.)



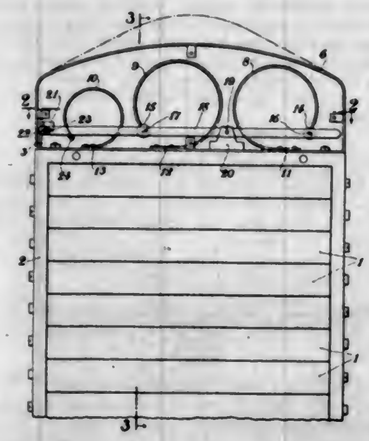
1. In a system of apparatus for the separation of associated liquids, the combination with a treater device forming a part of said system, of an emulsified oil supply pipe connected with said treater device, a transformer mechanism having a stationary and a movable coil, a control valve in said supply pipe near said treater device, a pivotally supported beam, a link connecting said beam with said valve and operating means connected with said beam adapted to be actuated by the movement of the movable transformer coil to control the operation of the treater device.

1,691,579. MOTOR-DRIVEN VEHICLE. LEE W. MELCHER, West De Pere, Wis., assignor to Railway Motors Corporation, De Pere, Wis., a Corporation of Wisconsin. Filed Mar. 5, 1923. Serial No. 622,751. 20 Claims. (Cl. 105—62.)



1. In a motor propelled vehicle, the combination of a plurality of motors, traction-wheels, mechanism for driving the traction-wheels from the motors comprising variable speed transmission gearings driven by said motors respectively, and controlling mechanisms for said gearings whereby they may be conjointly or individually operated, comprising electro-magnets and switches for controlling said magnets.

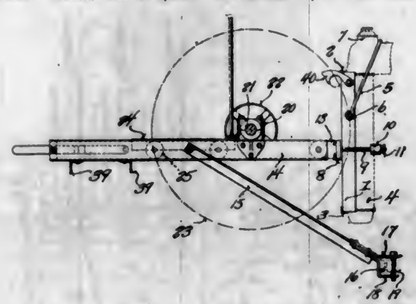
1,691,580. RADIATOR-SHUTTER CONTROL. FREDERICK WILLIAM MILLER, Hockley Heath, England. Filed Feb. 8, 1928, Serial No. 252,734, and in Great Britain Jan. 19, 1927. 10 Claims. (Cl. 236—35.)



1. The combination with an air-shutter for a radiator in the cooling-water circuit of an internal combustion engine, of a two-arm lever operatively connected to the air-shutter, and two thermostatic shutter-controlling devices each consisting of a bi-metallic heat-sensitive and deflecting member mounted adjacent to a water container in the said cooling-water circuit so as to lie and move in a plane parallel to the said container, the said thermostatic devices acting in unison on opposite arms of the said lever.



1,691,581. SAW-RIG ATTACHMENT FOR TRACTORS. THEODORE G. MUELLER, ALFRED R. BUCHHOLZ, PAUL O. DALLMANN, GEORGE C. MOERSCHEL, WILLIAM C. DALLMANN, MAX J. KUJAWSKI, and WILLIAM H. SCHMIDT, Milwaukee, Wis., assignors to Dallmann Machine and Manufacturing Co., Milwaukee, Wis. Filed Nov. 22, 1923. Serial No. 676,360. 3 Claims. (Cl. 143—43.)



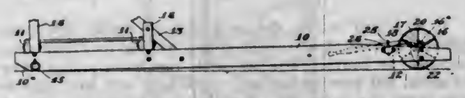
1. A saw rig for detachable engagement with the front end of a tractor comprising a frame adapted to contact with such front end, means for supporting such frame, means for clamping said frame to the front end of said tractor, a pair of outwardly projecting members pivotally carried by said frame, a circular saw revolubly carried by said outwardly projecting members, and a workplate carried by said outwardly projecting members and adapted to reciprocate relatively to said members.

1,691,582. PROTECTOR FOR BACKS OF SHOES. EMMA NOWAK, Brooklyn, N. Y. Filed Nov. 2, 1927. Serial No. 230,679. 2 Claims. (Cl. 36—72.)



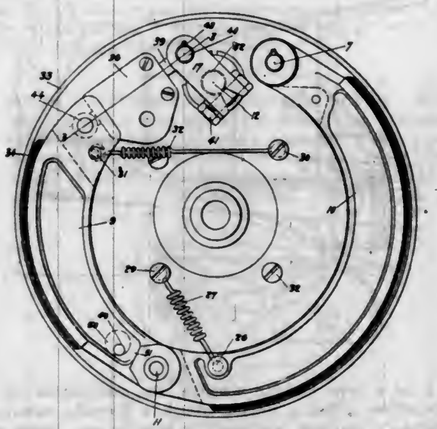
1. A protector for the back of a low shoe comprising a body portion of flexible material adapted for disposition on the back of the shoe and covering substantially the entire back of the shoe and the upper part of the heel, catches associated with the body portion for engaging the top edge of the shoe, and a strap attached along the bottom edge of the body portion and adapted to extend and to be tightened around the heel for drawing the body portion taut in service on the shoe.

1,691,583. TRANSPORT TRUCK. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed June 18, 1923. Serial No. 646,039. 6 Claims. (Cl. 280—44.)



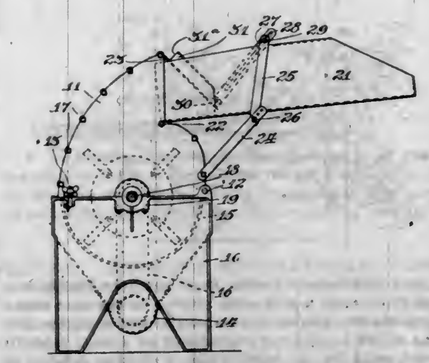
1. A transport device for hay-stackers comprising a crank axle having its ends journaled in the base frame of the hay-stacker, two ground wheels journaled on the crank portion of the axle for vertical adjustment relative to the hay-stacker, and means for swinging the crank axle to raise and lower the hay-stacker, said means comprising a hand lever in the form of a single pivoted bar having its fulcrum end swingable on a pivot member which is rigidly related to the crank portion of the axle and closely adjacent thereto, said hand lever having locking means on the hay-stacker for holding the crank axle in such position that the hay-stacker is held off the ground.

1,691,584. VEHICLE BRAKE MECHANISM. HENRI PERROT, Paris, France, assignor to Bendix Corporation, Chicago, Ill., a Corporation of Illinois. Filed Oct. 7, 1924, Serial No. 742,156, and in France May 23, 1924. 24 Claims. (Cl. 188—194.)



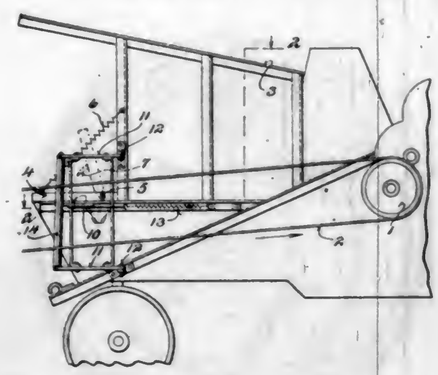
4. In a brake mechanism, a drum, an internal brake for engaging said drum, having one end relatively fixed, an operating member, and a positive adjustable linkage between said operating member and the other end of said brake, said linkage including a turnbuckle device, comprising a worm adjustable from the exterior of the drum, and a gear wheel internally threaded with a connector extending from each end thereof, one connector being attached to the end of the brake shoe and the other adapted to be connected to said operating member.

1,691,585. FEEDING MEANS FOR CENTRIFUGAL GRINDERS. CHARLES A. A. RAND, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Dec. 17, 1923. Serial No. 681,073. 8 Claims. (Cl. 83—11.)



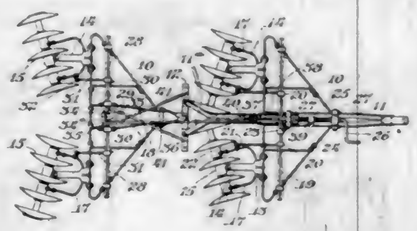
1. An improvement in centrifugal grinders comprising a casing having a lateral feed opening, a trough shaped chute extending substantially horizontally from said casing for guiding material to said lateral feed opening, a gate pivotally mounted so as to extend within the said chute downwardly and outwardly with respect to said casing, the gate having an air port formed therein, a shield covering the port, and means for adjustably supporting the gate.

1,691,586. POWER CONTROL DEVICE. AUGUST ROSENTHAL, West Allis, Wis., assignor to Rosenthal Mfg. Co., West Allis, Wis. Filed Jan. 8, 1927. Serial No. 159,933. 3 Claims. (Cl. 192—129.)



1. In a corn husking machine, the combination of a belt driven pulley, a feeding trough, a pivotally mounted operator's platform positioned to provide easy access of the operator to said feeding trough, a spring urging said platform towards raised position, a prong carried by said platform, a pivotally mounted belt shifter provided with an elongated roller adapted to engage the belt, a spring urging said belt shifter to belt shifting position for throwing said belt from said pulley, and a catch carried by said belt shifter and normally engaged by the prong of the operator's platform, whereby when the operator leaves his platform said belt shifter will be unlatched and will throw the belt from the pulley.

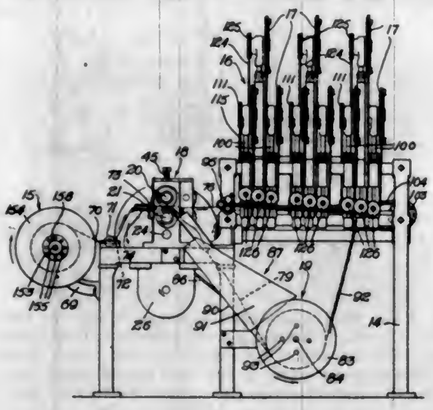
1,691,587. TANDEM-DISK HARROW. ARTHUR ALFRED SCARLETT, Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed July 16, 1923. Serial No. 651,747. 11 Claims. (Cl. 55—83.)



2. In a disk harrow having front and rear flexibly connected frames and a disk gang pivoted on the rear frame, the combination therewith of a compensating device comprising a link having one end pivoted at a fixed laterally disposed point on the front frame, a rocking member on the rear frame having oppositely directed arms, a connection between one of said arms and the link and a connection between the other arm and said gang.

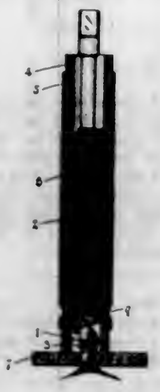
7. A disk harrow comprising front and rear frames, a pair of disk gangs pivoted on each side of the rear frame, a pair of independent links pivotally connected at one end to the front frame at laterally spaced points, said links being crossed and connected at their other ends with the gangs respectively, and flexible coupling means connecting the frames.

1,691,588. MATERIAL-WORKING MECHANISM. ARTHUR EHRHOLD SCHULZ, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1924. Serial No. 733,494. 14 Claims. (Cl. 164—65.)



1. In a slitting and rewinding machine, means for slitting a strip of predetermined width from a web, and means for taking up said strip in a plane at right angles to its plane of severance.

1,691,589. METHOD OF AND MEANS FOR WAVING HAIR. WILLIAM GENTRY SHELTON, St. Louis, Mo. Filed Dec. 31, 1926. Serial No. 158,333. 7 Claims. (Cl. 132—36.2.)

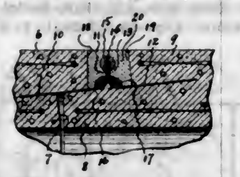


1. In a hair waving device, a unitary double tube comprising a tube of absorbent paper having its inner face exposed to contact directly with the hair, and a tube of metal foil surrounding and contacting with said absorbent paper the outer face of said metal foil being exposed for the transmission of heat to the absorbent paper.

1,691,590. CONCRETE PIPE OR CONDUIT. FRANCIS H. SHERREND, East Orange, N. J., assignor to Newark Concrete Pipe Co., Newark, N. J., a Corporation of New Jersey. Filed June 15, 1925. Serial No. 37,166. 3 Claims. (Cl. 72—53.)

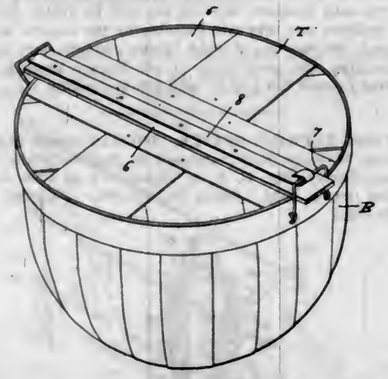
3. In a leak-proof expansion joint for concrete pipe the combination with metallic joint rings having opposed and abutting meeting flanges angularly extending from their outer extremities, of means for uniting and sealing together the free edges of said meeting flanges, compressible means entered in the angle of juncture between each





joint ring and its meeting flange, and relatively rigid means surrounding and holding said compressible means in place.

1,691,591. BASKET TOP. ALVIN W. SPENCER and FRANK A. FALCONER, Weslaco, Tex.; said Spencer assignor to said Falconer. Filed Aug. 23, 1926. Serial No. 130,960. 5 Claims. (Cl. 217—124.)



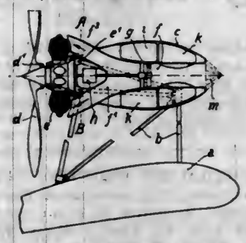
3. In combination, a basket, a cover for said basket, said cover being provided with a bar extending beyond the edges thereof and the edges of the basket, said basket being provided with bail handles through which the ends of said bar extend, and a strip of ductile material fastened longitudinally on top of said bar to extend co-extensively therewith and having its ends free from the bar so that they may be curved upwardly and over the bail handles.

1,691,592. VENDING MACHINE. SALVATORE SPINA and ALBERT COOK, New York, N. Y. Filed Dec. 23, 1927. Serial No. 242,048. 4 Claims. (Cl. 194—22.)



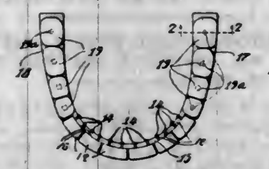
1. In a vending machine, in combination, a magazine for stacked articles, rollers at the bottom of said magazine, means for rotating said rollers, coin controlled means normally locking said rollers against rotation, including a pivoted lever having one end in normal locking engagement with one of said rollers and its other end adapted to receive a coin whereupon said lever is moved from locking engagement with said roller, and a pivoted trip lever having an end in engageable contact with said locking means and having an upturned portion adapted to be depressed by the vended article to restore the said locking means in locking engagement with said rollers.

1,691,593. AIRCRAFT WITH PUSHER SCREW. KURT TANK, Potsdam, near Berlin, and KARL FEYDAG, Schmargendorf, near Berlin, Germany, assignors to the Firm: Rohrbach Metall-Flugzeugbau G. m. b. H., Berlin, Germany. Filed Feb. 17, 1927, Serial No. 168,885, and in Germany Jan. 20, 1926. 14 Claims. (Cl. 244—31.)



1. In a power plant for aircraft an engine nacelle as an independent unit, a stationary air cooled engine located in the rear of the nacelle and having its axis arranged in the direction of flight, a pusher screw driven by said engine and disposed closely behind the same, the engine being located within the cylinder of revolution defined by the rotating pusher screw tip and means disposed in the fore part of the nacelle functioning independently of said pusher screw for inducing and introducing a cooling blast of air into said nacelle, causing the same to flow substantially in the direction of flight therethrough without sharp or pronounced deviations and supplying the same to said engine.

1,691,594. PROSTHETIC DENTISTRY. EUGENE A. THAYER, Pontiac, Ill. Filed June 27, 1921. Serial No. 480,784. 3 Claims. (Cl. 32—4.)



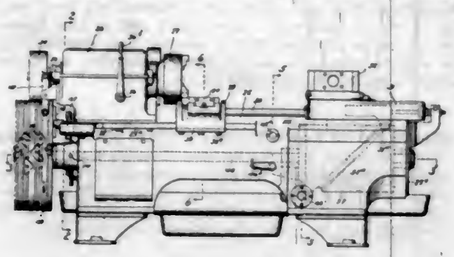
1. In a denture holder comprising a strip of yieldable material with the center portion thereof having slots therein lying at right angles to the longitudinal body portions of said strip, cups carried by the outer end of said strip.

1,691,595. AUTOMATIC SINGLE-SPINDLE-CHUCKING MACHINE. JOHN J. N. VAN HAMERSVELD, Cleveland, Ohio, assignor to The Warner and Swasey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 11, 1924. Serial No. 731,409. 52 Claims. (Cl. 29—44.)

1. In a metal working machine, a bed having a head and a slide, a cam drum for operating the slide, a shaft supporting said drum, mechanism between the head and the drum for rotating the drum at different speeds, clutching means controlling said mechanism, means comprising a tappet drum mounted coaxially with said shaft for operating the clutching means, and means by which the tappet drum is driven by said shaft but at a different speed than the latter is driven.

25. In a metal working machine, a bed having a head provided with a rotatable spindle, a slide movable along

the bed, and mechanism between the head and the slide for operating the latter at different speeds, said mechanism being carried in part by the head and in part by the bed and including a gear box having a gear adapted to mesh



with a gear carried by the bed and including also a clutch having one element carried by the bed and another element carried by the gear box, said gears and said clutch elements being brought into co-operative relationship when the gear box is applied to bed.

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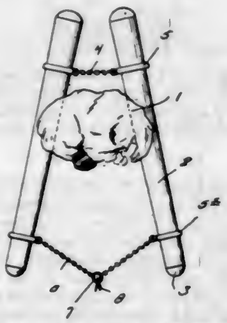
1,691,596. OPHTHALMIC MOUNTING. JAMES WILSON WELSH, Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y., a Corporation of New York. Filed June 12, 1925. Serial No. 36,592. 4 Claims. (Cl. 88—47.)



1. An ophthalmic mounting comprising a non-metal member having a lens-receiving groove provided with a notch, a non-metal member seated in the notch and rigid with and projecting from the wall of the groove, the second-named member being adapted to engage a lens, and a metal member mounted on the first-named non-metal member adjacent to the notch and having wings embedded in the first-named non-metal member on both sides of the notch.

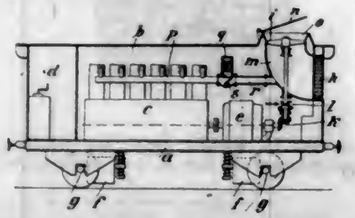
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1,691,597. STONE-HAULING DEVICE. OLE M. WHITE, Clear Lake, Wis. Filed Sept. 3, 1927. Serial No. 217,515. 1 Claim. (Cl. 280—19.)



A stone hauling device comprising major members of circular cross section rounded at their ends and tapered from their rear rounded ends to their forward rounded ends, a flexible connection interposed directly between and connected to the rear portion of the said major members, a flexible connection interposed betwen and directly connected to the forward portion of the said major members, and draft means connected to said flexible connection.

1,691,598. INTERNAL-COMBUSTION-ENGINE LOCOMOTIVE. EUGEN ZEINDEN, Winterthur, Switzerland, assignor to Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Filed Mar. 12, 1926, Serial No. 94,140, and in Germany Aug. 28, 1925. 1 Claim. (Cl. 123—171.)



In an internal combustion engine driven locomotive the combination with a radiator, of a housing forming an air chamber back of said radiator, a disconnectible fan positioned in said chamber and an engine intake conduit opening into said chamber, whereby air may be drawn through said radiator and into said chamber by the suction of said fan and the suction of said intake conduit, and means for varying the proportion of air drawn through said radiator by said fan and by said intake conduit.

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1,691,599. LOCKING DEVICE. WILLIAM FRANK ZIMMERMANN, Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 2, 1926. Serial No. 139,099. 1 Claim. (Cl. 121—36.)



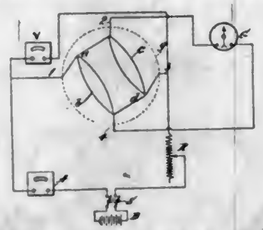
In a pneumatic tool, the combination of a cylinder, a hood screwed on the cylinder, teeth on the end of the hood, a key having teeth to interlock with the teeth on the hood, the teeth of said hood and said key being back-tapered longitudinally and radially to insure against disengagement of the key from the hood, and a spring anchored to the cylinder and to the key exerting a constant pull tending to tighten the connection between the hood and the cylinder.

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1,691,600. METHOD OF MEASURING THE RATE OF MASS FLOW AND THE TEMPERATURE OF FLUIDS AND APPARATUS THEREFOR. CHARLES F. BRUSH, Jr., Cleveland, Ohio, and RICHARD D. FAY, Nahant, Mass., assignors, by direct and mesne assignments, to The Brush Laboratories Company, Cleveland, Ohio. Filed Mar. 24, 1920. Serial No. 368,455. 9 Claims. (Cl. 73—167.)

1. In the herein described method of measuring the rate of flow and other physical conditions of fluid, the steps consisting in exposing to the fluid, a conductor comprising a plurality of members so connected as to form parts of a Wheatstone bridge at least two of which members differ relatively in electrical resistance, passing an electric current through said conductor whereby members of said con-

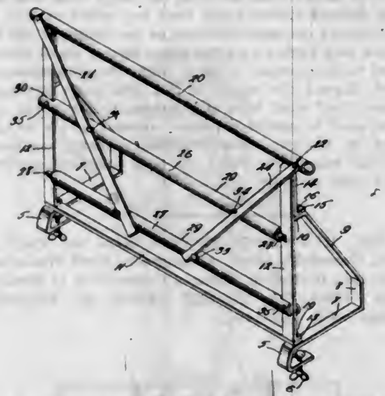




ductor are heated to relatively different temperatures, regulating the electric heating current until a definite difference of potential between two points of said conductor is brought about, and measuring the current necessary to maintain such difference of potential.

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1,691,601. COMBINATION CAMP BED AND LUGGAGE CARRIER. DAVID G. CONN, Yakima, Wash. Filed Sept. 8, 1924. Serial No. 736,663. 4 Claims. (Cl. 5—119.)

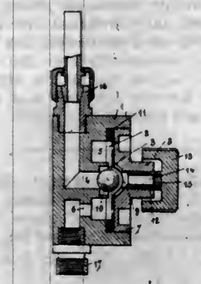


1. A convertible luggage carrier and bed including in combination, a pair of clamps, a pair of standards supported on the clamps, a bar provided with openings adapted to receive the ends of the standards, legs pivotally mounted on the bar, a second and third bar of telescopic construction each including an inner member and an outer member, said bars embodying means whereby they may be supported on the standards below the first bar, the outer members of said bars being provided with hooked lugs for holding the legs in folded position against the bar, means connecting one end of the telescopic bars to the standards, the other ends being adapted to be received within the openings of the first mentioned bar when disengaged from the standards.

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1,691,602. CLOSING AND REGULATING COCK FOR ALL LIQUIDS AND GASES. LOUIS FERRETTE, Paris, France. Filed May 4, 1926, Serial No. 106,772, and in France June 13, 1925. 2 Claims. (Cl. 251—139.)

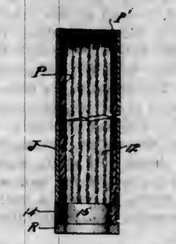
2. A closing and regulating cock for all liquids, which comprises a cylindrical body, a fluid inlet passage formed radially in the said body and having a right-angled central part, the front side of said body being recessed so as to form a cup, a central flange in said cup open at its outer end and which communicates with said right-angled central part of the passage, a fluid outlet passage which is formed radially in said cylindrical body and separated by a wall from the fluid inlet passage and which communicates with the said cup by a right-angled passage, a closing ball disposed in the central flange of the cup, a screw threaded cover having a semispherical recess and screwed upon the front side of the said body, means affording a fluid-tight connection between the cover and said body comprising a concentrically corrugated diaphragm which is held at the



periphery against the inner face of the cover and is adapted to fit upon the said cup, said cover having an axial aperture, a hollow screw cooperating with the wall of said aperture, means for actuating the said screw, and a step-bearing disposed in the aperture of the said screw and bearing against the said diaphragm.

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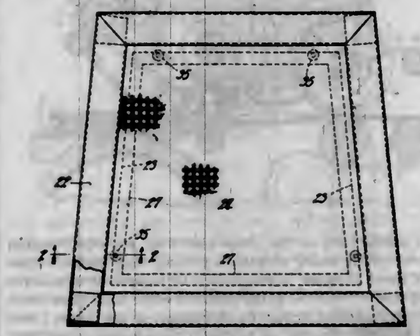
1,691,603. LONGITUDINAL FIBROUS PACKING FOR PLUNGER PUMPS. HENRY M. GREEN, Los Angeles, Calif., assignor, by mesne assignments, to C. M. O'Leary. Filed July 28, 1924, Serial No. 728,653. Renewed Oct. 3, 1927. 5 Claims. (Cl. 286—1.)



5. In a plunger pump, relatively slidable plunger and barrel means, an elongated sleeve of fibrous packing having longitudinally extending strands, and means for preventing end movement of the packing.

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1,691,604. FLEXIBLE PANEL. FRANK B. HARMAN, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed July 26, 1923. Serial No. 653,843. 1 Claim. (Cl. 155—187.)



In an article of the class described, the combination of a supporting frame having an inwardly projecting seat flange adjacent its lower edge, and a panel removably seated

on said flange and surrounded by said supporting frame, and having its outer edge concealed by said surrounding frame, said panel comprising a marginal frame having side members which are U-shaped in cross section and which are arranged so as to face outwardly with their side walls disposed in substantially horizontal planes one above the other, a flexible panel sheet stretched over said frame and between opposite side portions thereof and having a marginal portion folded downwardly over the outer edge and inwardly under the bottom face of the top wall portion, and a filler strip inserted between said side walls for wedgingly holding said panel sheet in place.

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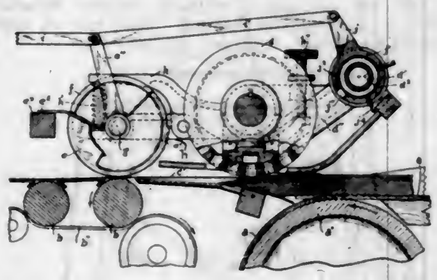
1,691,605. FABRIC AND METHOD OF TREATING SAME. DANIEL E. HENNESSY, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Jan. 12, 1925. Serial No. 1,864. 1 Claim. (Cl. 154—2.)



The method of cutting and handling a relatively wide web of tire material, formed of tire fabric bonded between two layers of rubber, which comprises forming successive cuts crosswise of the web and through the upper layer of rubber and the fabric without disrupting the underlying layer of rubber, the line of said cuts being on the bias with respect to the length of the web, and winding the so cut web into a liner directly, and continuously, from the cutting machine, one end of the so cut diagonally positioned sections entering the liner roll first, without tendency to disrupt the uncut layer of rubber and without presenting transverse severed edges, to form a uniform compact roll in which the tire material is substantially coextensive with its protecting liner.

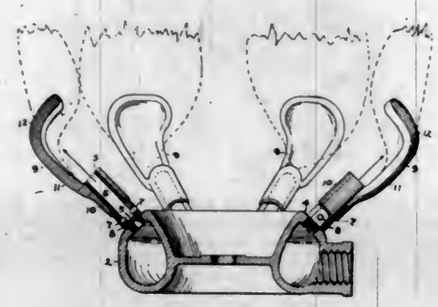
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1,691,606. SHEET DETECTOR FOR PAPER-FEEDING MACHINES. REUBEN HITCHCOCK, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 11, 1925. Serial No. 14,672. 11 Claims. (Cl. 271—47.)



1. In mechanism of the class described, the combination with two co-operative rotatable testing members between which a sheet of paper is adapted to be passed, of means for effecting their relative adjustment toward and from each other corresponding with the thickness of the paper; one of said members having an abruptly-terminated overriding eccentrically related portion adapted to engage a plurality of interposed sheets, and disabling means operated upon the actuation of the latter member, substantially as set forth.

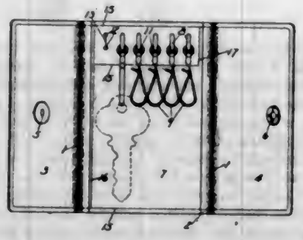
1,691,607. GAS BURNER. HARRY E. KERR, Cleveland, Ohio, assignor to The Cleveland Gas Burner & Appliance Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 2, 1926. Serial No. 99,213. 1 Claim. (Cl. 158—113.)



A gas burner, comprising a hollow gas distributing body, a series of short tubes extending upwardly from said body, a baffle member spaced apart from the mouth of each tube approximately the same distance as the length of the tube, and each tube having an axial gas orifice of small diameter adapted to jet a stream of gas at high velocity a substantial distance beyond the mouth of the tube under normal gas pressures, and each tube also having intake ports of restricted area to permit a limited amount of air to be entrained by the gas stream without causing combustion within the tube itself under the back pressure established by said baffle member.

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1,691,608. KEY CASE. FRANK A. KING and EMIL BEDFORD, Greenfield, Mass., assignors to Emil Weissbrod & Sons, Inc., Greenfield, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1927. Serial No. 167,091. 3 Claims. (Cl. 150—40.)

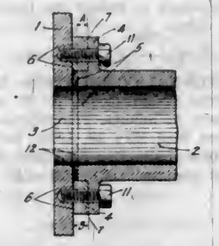


1. In a key case, a flexible back, a perforated flexible backing, rings in the perforations in said backing and projecting behind the same, a thin flexible lock strip, rectangular in cross section, and flat-sided throughout, said strip passing through said rings behind said backing, and lines of stitching between said backing and said back outside of the ends of said strip to assist in holding the same in place.

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1,691,609. PIPE AND PLATE CONNECTION. FRANK OSKRIT, Pittsfield, Mass. Filed Oct. 22, 1924. Serial No. 745,247. 2 Claims. (Cl. 285—25.)

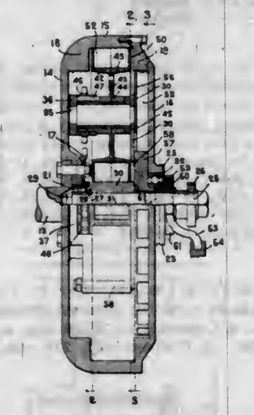
1. In a connection of the character described, the combination with a casing of comparatively thin metal having an opening therein, of a pipe, a flange on said pipe disposed from the end thereof, a plate provided with an opening therein adapted to receive the end of the pipe and welded to said casing around the opening, a gasket between the end of the pipe and the casing, and a plurality



of cap screws passing through said flange and engaging threaded openings in said plate for securing the pipe and casing together.

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1,691,610. POWER TRANSMISSION. JOHN REECE, Boston, and FRANKLIN A. REECE, Brookline, Mass., assignors to Reece Transmission Company, Boston, Mass., a Corporation of Maine. Filed Nov. 27, 1923. Serial No. 677,281. 23 Claims. (Cl. 74—34.)



1. Power transmission apparatus comprising the rotary driving and driven members, combination with a hollow casing revolved by the driving member, an annular stream of liquid held peripherally in said casing by centrifugal force and traveling around therewith, and a diverting part (34) on the driven member within said casing having a portion extended into the annular stream of liquid continuously to divert liquid therefrom, the driven member formed with a channel of recurved shape to guide such diverted liquid in a reverse path to cause continuous driving thrust on the driven member, and a discharge passage leading therefrom, and the driving member formed with a passage receiving the liquid discharged from said discharge passage and redelivering it to the annular stream of liquid.

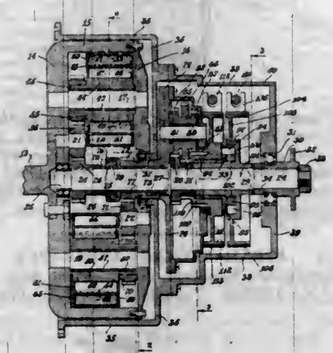
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1,691,611. POWER TRANSMISSION. JOHN REECE, Boston, and FRANKLIN A. REECE, Brookline, Mass., assignors to Reece Transmission Company, Boston, Mass., a Corporation of Maine. Filed Sept. 30, 1924. Serial No. 740,753. 21 Claims. (Cl. 74—34.)

1. In power transmission apparatus the driving and driven members or shafts, a main transmitting means comprising a centrifugal device between the driving and driven members wherein is an inwardly and outwardly movable mass mounted on and carried around by the



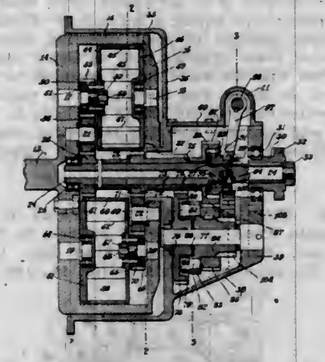
driving member, and connections between the driven member and mass whereby the mass is actuated to move inwardly and outwardly by reason of the speed difference between the members and operates by reacting through its centrifugal force to transmit power to the driven member at reduced ratio with increase of load and vice versa, and a supplemental transmitting means coming into action only at reduced ratio with increased load to sup-



plement the torque delivered by the main transmitting means, comprising a second such centrifugal device between the driving and driven members actuated at low ratios by reason of the speed difference between the members and reacting through centrifugal force to transmit supplemental torque to the driven member, and a one-way device associated with the supplemental transmitting means arranged to cause it to deliver torque at the reduced ratios but leaving it inoperative at high ratios.

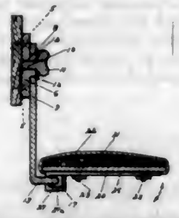
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1,691,612. POWER TRANSMISSION. JOHN REECE, Boston, and FRANKLIN A. REECE, Brookline, Mass., assignors to Reece Transmission Company, Boston, Mass., a Corporation of Maine. Filed Mar. 25, 1925. Serial No. 18,115. 14 Claims. (Cl. 74—34.)



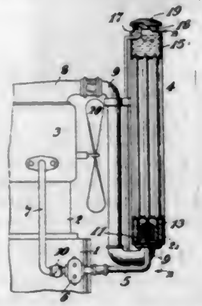
1. Power transmission apparatus comprising the driving and driven members, a main self-adjusting transmitting mechanism between the driving and driven members, operating both at the higher and lower transmitted speeds, and a normally inoperative supplemental transmitting mechanism between the driving and driven members, the same comprising a one-way device causing it to become operative only at the lower relative transmitted speeds, whereby with high loads both transmitting mechanisms deliver torque cooperatively at low speed to the driven member.

1,691,613. ARM REST. WILLIAM E. ROACH and DAVID J. ROACH, Owego, N. Y. Filed Oct. 1, 1927. Serial No. 223,454. 5 Claims. (Cl. 155—198.)



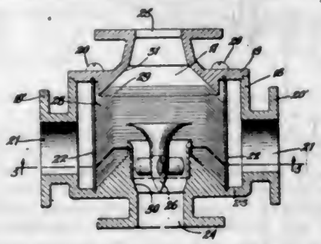
1. An arm rest comprising a bracket suspended from a support, an arm pad pivoted to said bracket, means for locking said pad in arm supporting position at right angles to said bracket, said pad being rockable on its pivot, out of arm supporting position, and means for frictionally retaining said pad in said last named position.

1,691,614. STEAM-COOLING APPARATUS. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Aug. 10, 1926. Serial No. 128,343. 7 Claims. (Cl. 123—174.)



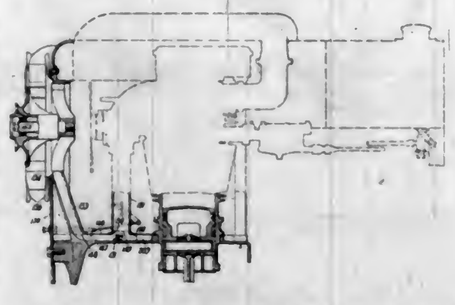
1. An internal combustion engine having a water and steam cooling circuit serially including a force feed pump supplying water to the jacket of the engine, an outlet discharging hot water and steam from the jacket into the lower chamber of an air cooled, water filled radiator of the upright type having a multiplicity of small diameter cooling passages of great radiating capacity connecting said lower chamber with an upper chamber, in combination with discharge means arranged to discharge water and the steam from the engine in a region of said body of water that is below and in proximity to the lower ends of said passages, and flow restricting elements extending throughout the steam condensing regions of said passages.

1,691,615. FUEL VAPORIZER. LESTER C. SMITH, Springdale, Conn., assignor of one-half to N. Julien Thompson, Hartford, Conn. Filed Apr. 15, 1921. Serial No. 461,684. 2 Claims. (Cl. 48—180.)



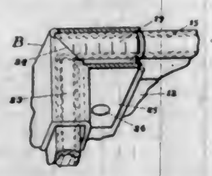
1. A device for volatilizing the entrained liquid particles carried by a gas mixture comprising a conduit, a plurality of closely spaced liquid-collecting plates lining at least a portion of the walls of said conduit and acting as a blanket therefor, means for externally heating the blanketed portion of said walls, and means in the path of flow of the mixture to deflect the liquid particles onto said collecting plates.

1,691,616. INTERNAL-COMBUSTION ENGINE. WILLIAM F. SMITH, Poughkeepsie, N. Y., assignor of one-half to Herman A. Schatz, Poughkeepsie, N. Y. Original application filed May 23, 1924, Serial No. 715,388. Divided and this application filed Jan. 12, 1925. Serial No. 1,902. 2 Claims. (Cl. 123—119.)



1. In an internal combustion engine having an air intake, a casting for supporting an engine cylinder, a plurality of raised portions on said casting and a cover plate cooperating therewith whereby a plurality of ducts are formed, a first duct opening to the atmosphere, means whereby air is caused to flow rapidly through said first duct and a passageway interconnecting with said first duct substantially at right angles thereto and also interconnecting with said air intake whereby air passed to said intake is freed from dirt.

1,691,617. BOTTLE CRATE. ROY D. TYLER, St. Paul, Minn., assignor to G. H. Tennant Company, Minneapolis, Minn., a Corporation. Filed Aug. 9, 1926. Serial No. 128,098. 6 Claims. (Cl. 217—69.)

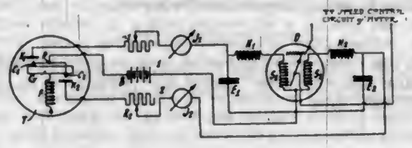


1. A bottle crate including, sides made of a series of slot members, inner and outer corner reinforcing members adapted to be clamped together to hold said slat members in place, reinforcing channel members dovetailed onto the lower edge of said side walls, cut out portions formed on said reinforcing members, and means formed on said outer reinforcing corner member adapted to overlap said cut out portions to rigidly secure the ends of said reinforcing members in the corners of said crate.

1,691,618. SPEED INDICATOR AND REGULATOR FOR ELECTRIC MOTORS. GEORG VON ARCO, WALTER SCHAFFER, and WILHELM MOSER, Berlin, Germany, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Jan. 16, 1923, Serial No. 2,778, and in Germany Jan. 28, 1924. 4 Claims. (Cl. 171—229.)

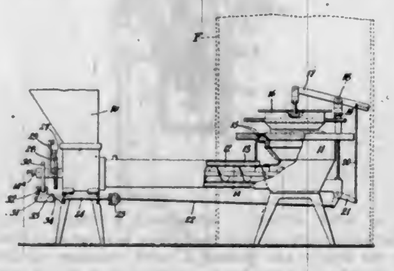
1. A speed regulator comprising a rotating element, a centrifugally affected mass mounted thereon, a spring for resiliently supporting said mass on said element, contacts mounted upon said mass and adapted to be alter-





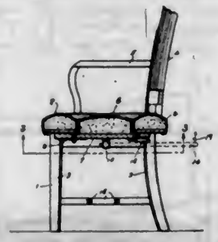
nately closed by radial movement of said mass, a differential relay connected thereto, and current controlling means actuated by said relay.

1,691,619. STOKER. MERLE J. WIGHTMAN, West New Brighton, N. Y., assignor to Domestic Stoker Company, New York, N. Y., a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,182. 4 Claims. (Cl. 110—45.)



2. In a device of the character described, a fire pot of the underfeed type, means for feeding fuel into said fire pot, and means for breaking up fused masses forming in the fire pot comprising a tamping member and means for periodically raising and dropping said tamping member.

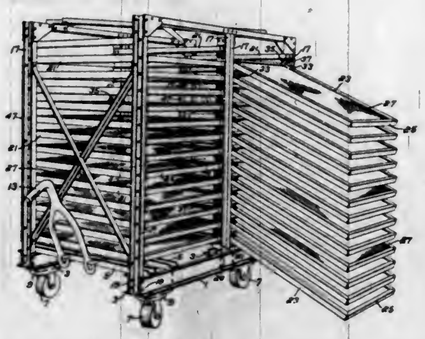
1,691,620. SANITARY SEAT FOR INVALID CHAIRS. CECELIA CLAPHAM WILSON, Oakland, Calif. Filed July 23, 1927. Serial No. 207,962. 1 Claim. (Cl. 155—31.)



An invalid chair having a central opening therein, a central portion removably disposed in said opening, hinges securing said portion to said seat for permitting said portion to swing downwardly when released, said hinges being slidably connected to said seat for permitting said portion to be moved laterally away from said opening after said portion has been swung into open position.

1,691,621. TRUCK. CLARENCE H. YOUNG, Boston, Mass. Filed Nov. 10, 1925. Serial No. 68,162. 5 Claims. (Cl. 280—49.)

1. A truck of the character described, having in combination, a base comprising girder members at opposite sides of the truck, each girder member comprising a pair of spaced structural steel members having vertically disposed parallel webs, spaced vertical posts supported by said girder members, said posts being between said parallel webs



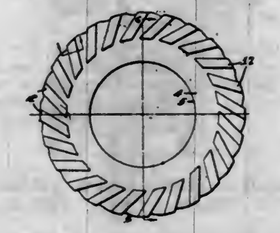
and each having parallel flanges abutting with and secured to said parallel webs, bars extending from the posts at one side of said truck to the posts at the opposite side of the truck, and trays slidably supported on said bars.

1,691,622. FISHING REEL. WALTER L. ADAMS and CHARLES T. PFLUEGER, Akron, Ohio, assignors to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed May 23, 1925. Serial No. 32,437. 19 Claims. (Cl. 242—844.)



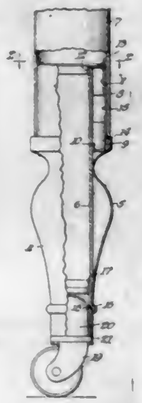
1. In a fishing reel, a reel structure including front and back plates, a spool and spool driving mechanism, a casing located at the side of the reel structure, said casing having flanges at the ends thereof adapted to fit against the front and back plates respectively, means to secure the flanges against said plates, and a level wind mechanism within the casing.

1,691,623. WELL-DRILLING TOOL. LESTER C. BLACK, Los Angeles, Calif. Filed June 17, 1925. Serial No. 37,657. 12 Claims. (Cl. 255—71.)



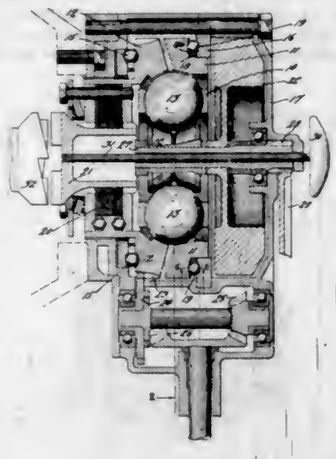
1. A self sharpening rotary disc cutter for rotary earth boring drills comprising a single metal disc and circumferentially spaced pads of harder metal than the metal of the disc arranged on one side of the disc at the cutting edge.

1,691,624. FURNITURE. CHARLES H. BUSCH, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Feb. 24, 1921. Serial No. 447,391. 9 Claims. (Cl. 5—279.)



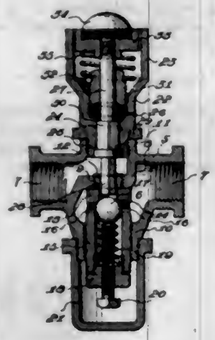
1. In an article of furniture, a supporting leg comprising an inner stem and an outer metallic shell having an interlocking connection between their upper ends comprising an inturned flange on said outer shell and a cap on said inner stem, said cap engaging the top of said inner stem and the under side of said inturned flange.

1,691,625. FRICTION TRANSMISSION. ROLAND CHILTON, Keyport, N. J., assignor, by mesne assignments, to Aeromarine Starter Company, Inc., a Corporation of New York. Filed May 26, 1926. Serial No. 111,761. 8 Claims. (Cl. 74—34.)



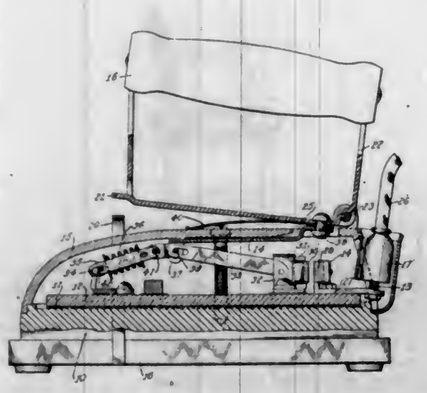
1. In apparatus of the class described the combination of an inner pair and an outer pair of axially separable concentric driving members, planetary means having rolling contact with each member, torque responsive means tending to close together one pair of members, spring means tending to close together the other pair of members in opposition to said torque responsive means.

1,691,626. VALVE. JOHN H. COOK, Salt Lake City, Utah. Filed Sept. 20, 1926. Serial No. 138,548. 6 Claims. (Cl. 251—50.)



1. A valve structure comprising a casing having a bridge and a port through the bridge, a valve cage threaded into the casing and having a valve chamber, a valve in said chamber, a plug for the outer end of the chamber, a spring in the chamber between the valve and the plug, and an abutment for the valve adjustably mounted in the plug.

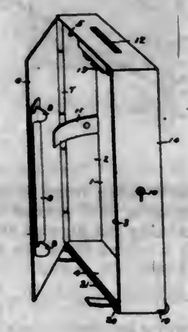
1,691,627. ELECTRIC FLATIRON. WILLIAM A. DE HART, Teaneck, N. J., assignor to Frances Rockefeller King, New York, N. Y. Filed June 16, 1923. Serial No. 645,744. 11 Claims. (Cl. 200—157.)



8. The combination with a body, and a handle movably attached thereto, of a circuit interrupter including a movable contact member, a pair of toggle links adapted to force the circuit interrupter closed when overset, an actuating arm arranged and adapted to be moved in response to pressure on the handle for setting the toggle and closing the interrupter when pressed downwardly and for releasing the toggle and opening the interrupter when moved upwardly, one of said toggle links being composed of a rigid member pivoted on a fixed support by a pin and slot connection, and a spring surrounding the rigid member and tending to press it away from the fixed support and the other of said toggle links being connected to the movable contact member of the circuit interrupter, the arrangement being such that the contacts are forcibly pressed together and wear between them is taken up by the spring-pressed link.

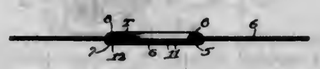


1,691,628. SAVINGS BANK. BUTLER F. GREER, San Francisco, Calif. Filed Apr. 6, 1927. Serial No. 181,348. 7 Claims. (Cl. 232—6.)



1. A savings bank having a locked opening; a frame attached to said receptacle and having a flange overhanging a portion of one side thereof; and a pedestal base slidably engaging said frame and having a flange completing the flange on said frame.

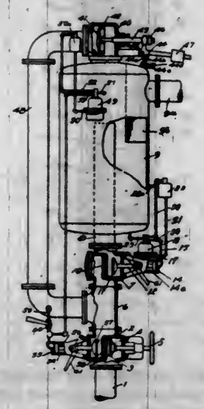
1,691,629. MATTRESS VENTILATOR. FRANK KUSTERLE, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed May 10, 1926. Serial No. 107,891. 1 Claim. (Cl. 5—347.)



In a ventilated mattress, the combination of a tick portion having an aperture therein, a tubular member having a reticulated closure member extending thereacross, said tubular member being of greater outside size than the size of said aperture and being adapted to be inserted into said aperture so as to project therethrough, whereby a portion of said tick adjacent said aperture will be caused to lie along said tubular member, a shoulder at one end of said tubular member for positioning the latter with respect to said tick, said projecting portion of said tubular member being adapted to be swaged outwardly and towards said shoulder so as to effectively clamp the tick surrounding said aperture between said shoulder and the swaged portion of the tubular member, said tick portion being folded over on the surrounding tick by reason of said swaging operation so as to form a double edge of ticking around said aperture and between said shoulder and swaged portion.

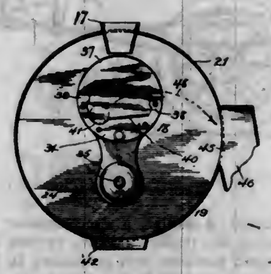


1,691,630. SAFETY STOP MECHANISM. OSCAR H. LUDEMAN, Glen Ridge, N. J., assignor to Ludeman Brothers Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 17, 1926. Serial No. 88,972. 6 Claims. (Cl. 183—39.)



1. In a safety stop mechanism, the combination of a steam supply pipe; a safety valve in the supply pipe; means responsive to water accumulations controlling said valve; and a bypass around said safety valve, the bypass leading from a higher level than the passage through the safety valve.

1,691,631. COIN-CONTROLLED MACHINE. ARTHUR W. BARNARD, Newton Center, Mass., assignor to Colonial Scale Company, Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1926. Serial No. 112,574. 7 Claims. (Cl. 273—138.)

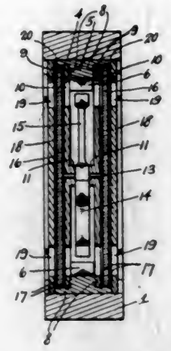


1. Coin return means for a coin-controlled machine, comprising a casing having a lateral coin outlet, a counterbalanced coin holder within said casing, and means for manually operating said coin holder to throw a coin toward said lateral coin outlet.

1,691,632. LEVEL. GEORGE A. BARTOW, Flushing, N. Y. Filed Dec. 13, 1927. Serial No. 239,685. 1 Claim. (Cl. 33—215.)

A level comprising, a frame having the intermediate portion thereof solid and formed with a circular opening therethrough, a ring disposed within said opening, a pair of discular plates having central openings therein and oppositely disposed within said ring, a pendulum adapted to swing between the plates and having its pivot mounted

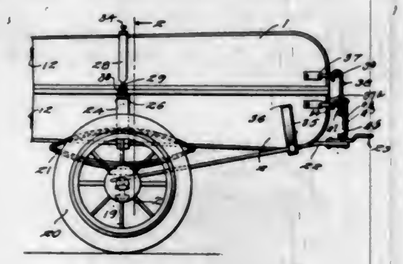
in the plate openings, means for securing said plates in position, said means including a pair of cover plates which are respectively secured to the opposite extremities of the



circular opening in the frame, and resilient means between each cover plate and adjacent circular disk for maintaining the latter in secured position.

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1,691,633. FOLDING BOAT AND TRAILER THEREFOR. BELLON BERTRAM, Sault Ste. Marie, Mich., assignor of one-half to Walter E. Huntley, Sault Ste. Marie, Mich. Filed Oct. 7, 1926. Serial No. 140,115. 1 Claim. (Cl. 9—1.)

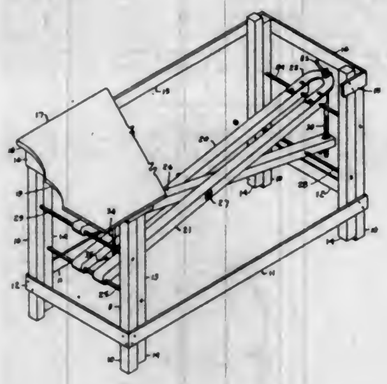


In combination, a trailer, a drag member therefor, a saddle carried by the trailer, a saddle carried by the drag member, a folded sectional bolt positioned in the saddles, a strap connected to said first saddle and passing about the boat, eyes carried by the boat sections and drag member forwardly beyond said second saddle, and means detachably engaged with the eyes to secure the boat sections together and hold them in said second saddle.

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1,691,634. WORKSTAND. FRANK ACHILLE BIENVENU, Montreal, Quebec, Canada, assignor, by mesne assignments, to Catelli Macaroni Products Corporation Limited, Montreal, Canada. Filed Aug. 1, 1927. Serial No. 209,952. 2 Claims. (Cl. 45—111.)

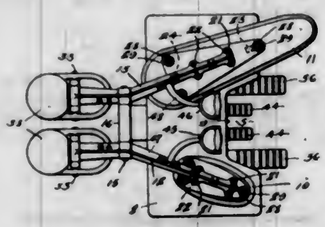
1. In a work stand, a standing frame and an elevatable frame, pivot bearings in rail form connecting the several end legs of said frames in pairs, parallel arms joined and spaced by yokes, at the ends and centrally by a spindle forming a pivot bearing, a single arm centrally mounted on said spindle pivot bearing, said parallel arms being mounted at one end on a rail pivot bearing on said standing frame and on a rail pivot bearing at the elevatable frame and said single arm being mounted at one end on a rail pivot bearing of the elevatable frame and on a rail



pivot bearing of the standing frame at the other end, an operating screw engaging said parallel and single arms at one end for separating and drawing them together and a guide rod having a locking device for holding the arms apart at the other ends.

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1,691,635. MULTIPLE-PRESSING MACHINE. PHILIP N. BRAUN, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 27, 1927. Serial No. 222,369. 8 Claims. (Cl. 68—9.)



1. A pressing machine comprising a frame, a pair of bucks mounted on the frame adjacent each other and extending forwardly and rearwardly and converging toward each other toward their rear ends and thereby providing a working space between their front portions, yoke levers pivoted to the frame in the rear of the rear ends of the heads and extending lengthwise of the heads, and mechanism for actuating the levers independently of each other.

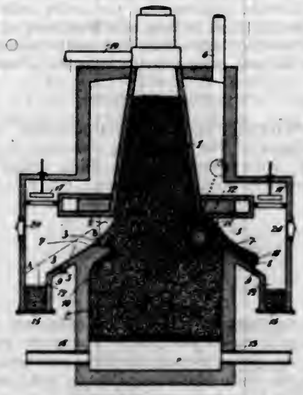
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1,691,636. APPARATUS FOR PRODUCING GAS AND COKE IN ALTERNATELY-WORKING WATER-GAS GENERATORS. ALBERT BARISIC, Vienna, Austria. Filed May 4, 1926, Serial No. 106,742, and in Austria May 7, 1925. 6 Claims. (Cl. 209—9.)

1. In a combined coking retort and gas generator comprising an enlarged lower part and transversal channels branching off from the junction of the upper and the lower



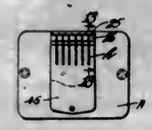
part and constituting the out-let for the blow gases the inclination of the bottom of these channels slanting outwardly and the disposition of the bottom edge of the chan-



nels orifice at such height, that it lies approximately in the plane of the slope naturally formed by the coked material when settling in front of the orifice.

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1,691,637. KEY CASE. WARNER R. BUXTON, Longmeadow, Mass. Filed Jan. 14, 1925. Serial No. 2,333. 11 Claims. (Cl. 150—40.)



7. The combination in a key case of a support for the key holders thereof, comprising, a back part, means for fastening the same to the case, and a front part for pivotally supporting the key holders, said front part being interengaged with the back part and serving to conceal said fastening means.

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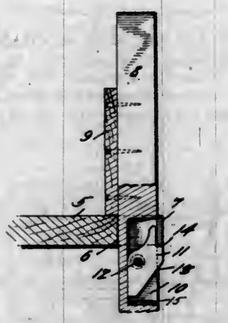
1,691,638. SIGN CHARACTER AND SECURING MEANS THEREFOR. JOSEPH D. CARNEY, Chicago, Ill. Filed Feb. 9, 1926. Serial No. 87,058. 3 Claims. (Cl. 40—142.)



1. In combination, a freely flexible article, a sign character having a recessed inner side and arranged with its edges in contact with the article, a bolt passing through the sign character and article, a nut applied to the bolt, means mounted on the bolt between the article and the nut and extending from edge to edge of the sign character to engage the article against the edges of the sign character, and a member surrounding the bolt and extending from the nut to the inner side of the sign character and adapted in conjunction with said means to limit the distance that the nut may be turned up and thus prevent the noticeable distortion of the article.

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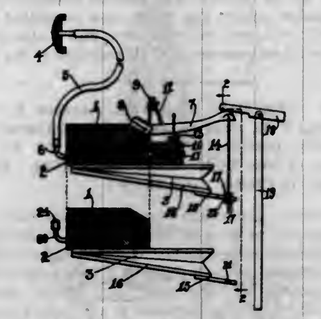
1,691,639. STAKE FOR VEHICLE SIDEBOARDS. FRANCIS J. CHARLEBOIS and ARTHUR H. MARTIN, Norwood, N. Y. Filed Jan. 19, 1928. Serial No. 247,949. 1 Claim. (Cl. 296—43.)



A stake for vehicle side boards and the like comprising an element having a laterally disposed recess in its edge near the lower end, a housing in the recess, a body structure having a socket for the stake, a latch in the housing, means for pivoting the latch therein, the said latch having an edge projecting beyond the edge of the stake under the structure having the socket, the said latch having an outer camming edge adapted to engage the structure having the socket for forcing the latch inwardly at the top, the said latch having weight above the pivot to cause its gravitation into operative relation with the under surface of the structure having the socket and means for limiting the swinging motion of the latch.

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1,691,640. UNIVERSAL PLAYER ACTION. TOLBERT F. CHEEK, New York, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Jan. 19, 1924. Serial No. 687,251. 1 Claim. (Cl. 84—65.)

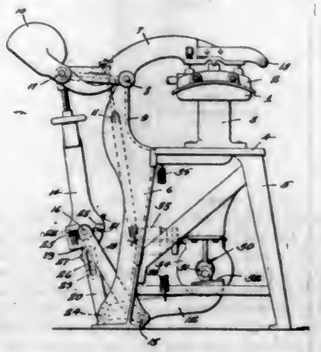


Means for adapting a standard player action to piano actions of various scales comprising the combination with the piano action and the individual hammer actions thereof of a player piano action including upper and lower stacks of pneumatics, a row of blocks individually mountable on top of the stacks at adjustable distances apart corresponding to the distances between the respective hammer actions, striker-fingers pivoted at one end to said blocks with their free ends extending horizontally into operative engagement with the respective hammer actions, a horizontal rail supported above said row of blocks, adjustable checks carried by the respective fingers to engage said rail to adjustably limit the up-stroke of the fingers, a horizontal rail supported below said fingers, regulating screws depending from said fingers to adjustably limit their down-stroke; striker-wires depending from the free ends of the respective fingers, the ends of the movable boards of the aforesaid pneumatics each having a plurality of

spaced holes affording a plurality of points for connection with the striker-wires whereby a point of connection may be selected which is substantially in alignment with the related striker-finger.

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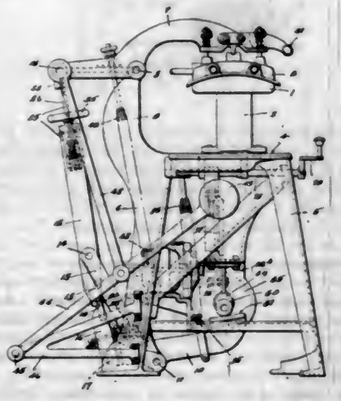
1,691,641. PRESSING-MACHINE MECHANISM. ALBERT B. CLISSON, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed June 12, 1924. Serial No. 719,693. 9 Claims. (Cl. 68—9.)



1. A pressing machine comprising a frame, co-operating pressing elements carried by the frame, and one movable toward and from the other, actuating mechanism for the movable element comprising a power member and motion transmitting connections between said member and the movable element including parts normally out of effective position and arranged to be carried to effective position to apply pressure to the movable element when said element is moved independently of the power member to closed position, said connections comprising a toggle including members, one connected to the movable element and the other to the frame, links pivoted respectively to the power member and to the toggle and connected together by a pivotal lost motion connection, and a stop for limiting the pivotal movement of the link pivoted to the toggle.

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1,691,642. PRESSING MACHINE. ALBERT B. CLISSON, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed July 3, 1924. Serial No. 724,035. 12 Claims. (Cl. 68—9.)



1. In a pressing machine, the combination of cooperating pressing elements, one movable toward and from the other and means for actuating the movable element including a toggle comprising links pivoted together, one link being pivotally connected to the movable element and one of the toggle links comprising sections, one section being adjustable endwise relatively to the other, and the other section having an abutment, and the former section being slidable relatively to the latter into engagement with the abutment to form a stiff connection between the sections as the toggle closes and means for yieldingly holding the sections from relative endwise movement.

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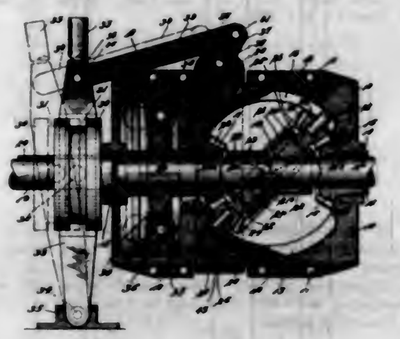
1,691,643. SPRING PAD. ALBERT B. CLISSON, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Feb. 24, 1926. Serial No. 90,424. 6 Claims. (Cl. 68—9.)



1. A pad for pressing machines, comprising opposing plates, springs between the plates, and stops projecting from one of the plates toward the other and being of less length than the springs the stops being distributed over the area of the plate from which they project.

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1,691,644. MECHANICAL MOVEMENT. JOSEPH S. CURRAN, Providence, R. I. Filed Apr. 6, 1928. Serial No. 267,979. 12 Claims. (Cl. 74—34.)

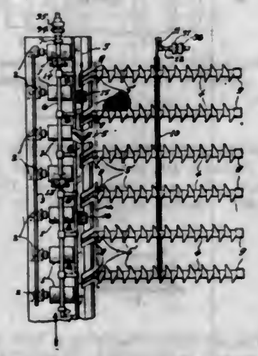


1. In mechanical movements, a rotatable sectional casing having opposed aligned bearings therein, internal arcuately shaped guide grooves in said casing, a shaft journaled in said casing having a cam journal member formed integral therewith or fixed thereto with its working peripheral face set on an angle to said shaft, a toothed gear rotatably mounted on said journal member and having means in engagement with said groove to hold said gear against rotation relative to said casing but adapted to impart a unitary motion to said gear with said casing, an internal friction band mounted in said casing, an operating lever and means associated therewith slidably keyed to said shaft and having means to expand said friction band to rotate said casing, an external friction band mounted on said casing and connected to said operating lever for holding said casing against rotation, a second shaft journaled in said casing, a pinion gear fixed to said shaft in engagement with said toothed gear to connect said shafts, whereby rotation of said shaft and cam journal member when said internal friction band is expanded will rotate the casing and other shaft in the same direction, or when said casing is free from frictional engagement with said internal friction band and held against rotation by said external friction band rotation of the shaft and pinion will rotate the shaft and cam journal member in the opposite or reverse direction.



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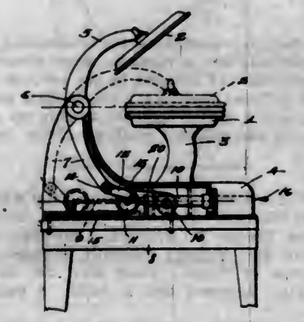
1,691,645. MECHANISM FOR PROCURING AND CONTROLLING THE BROADSIDE MOVEMENT OF METAL BARS. FRANK P. DAHLSTROM, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 25, 1927. Serial No. 178,436. 26 Claims. (Cl. 80—42.)



26. In mechanism of the class described, longitudinal conveying means for successively delivered bars, a cooling bed onto which are deposited successive sets of said bars in longitudinal alinement, automatic means set in operation by deposit of the last bar of each set for actuating said bed to move all the bars thereon broadside in unison, and means for further securing the actuation of said bed, for broadside movement of the bars thereon, at the will of an operator.

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1,691,646. ACTUATING MECHANISM OR MECHANICAL MOVEMENT FOR PRESSING MACHINES. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Apr. 9, 1926. Serial No. 100,985. 3 Claims. (Cl. 68—9.)



1. An actuating mechanism comprising a reciprocating prime mover, an oscillating driven element, connections between the prime mover and the driven element comprising a gear mounted on the reciprocating prime mover and having a rocking movement, an eccentric pin on the gear arranged when in starting position between the axis of the gear and the prime mover and movable through more than one half of a revolution and approximately three quarters of a revolution during the rocking of the gear and the movement of the prime mover in one direction, means for rocking the gear comprising a stationary rack with which the pinion meshes and a link connecting the eccentric pin and the oscillating driven element.

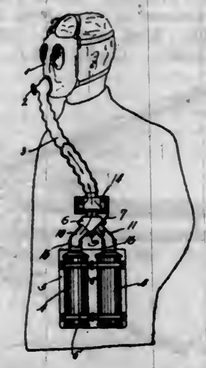
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1,691,647. PROCESS FOR THE PREPARATION OF ANHYDRIDES OF ORGANIC ACIDS. FRITZ DOERINCKEL and MARTIN SCHLIEMANN, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Jan. 21, 1927, Serial No. 162,675, and in Germany Jan. 28, 1926. 16 Claims. (Cl. 260—123.)

1. Process of preparing organic acid anhydrides, which comprises reacting a mixture containing the corresponding organic acid salt, a free organic acid, and a chloride of an element of the group including silicon titanium and tin, and separating the anhydride produced.

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1,691,648. BREATHING DEVICE. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Alexander Bernhard Dräger, deceased. Filed Mar. 18, 1927, Serial No. 176,456, and in Germany Mar. 16, 1926. 2 Claims. (Cl. 128—141.)



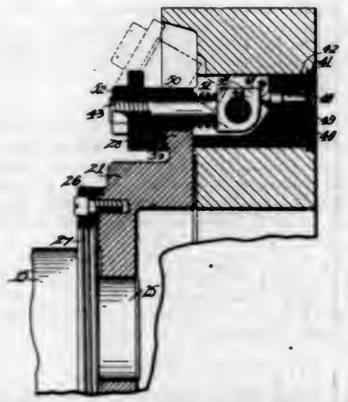
1. A breathing apparatus comprising a plurality of filter cartridges having inlets opening to the atmosphere, a chemical in one of said cartridges for purifying atmospheric air containing a certain poison, a different chemical in another one of said cartridges for purifying atmospheric air containing a different poison, a face piece, a conduit communicating therewith and terminating in a plurality of branches leading to said cartridges, an inhalation check valve inserted in said conduit and opening towards the face piece, an exhalation check valve inserted in the wall of said conduit at a point situated between said face piece and said inhalation check valve and opening to the atmopshere, and a valve means common to the branches of said conduit and adapted to shut off said branches selectively and individually.

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1,691,649. CHUCK. ALDEN M. DRAKE, Greenfield, Mass., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass., a Corporation of Massachusetts. Filed Jan. 22, 1926. Serial No. 83,097. 5 Claims. (Cl. 279—1.)

1. In a machine tool chuck supporting and attaching means comprising, a work spindle having a face plate, a detachable work holding chuck having a recess to receive

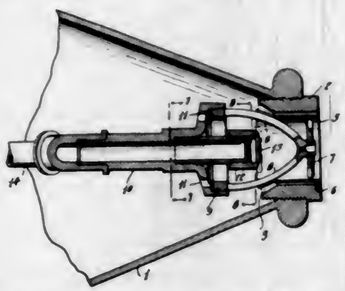
said face plate, and means to secure said chuck to said face plate, said face plate having a continuous circular flanged edge portion and said chuck having spaced clamp-



ing devices effective to engage any circumferential part of said edge portion and to secure said chuck firmly to said spindle in any angular relation relative thereto.

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1,691,650. FUEL BURNER. OSCAR FALKENWALDE, Baltimore, Md., assignor of one-half to Robert H. Lyon, Baltimore, Md. Filed Aug. 16, 1924. Serial No. 732,549. 5 Claims. (Cl. 158—77.)

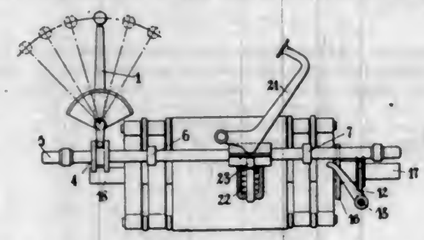


1. A burner of the class described having a shell, means at one end thereof to force air therethrough under pressure, a fan wheel adjacent the other end of said shell, and means to supply fuel into the shell substantially in line with said fan wheel and means mounting the fan wheel having a port therethrough for passing of a limited quantity of fuel.

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1,691,651. VARIABLE-SPEED GEAR. JOHN ALGERTON FURNESS, Bromley, England. Filed Dec. 19, 1927, Serial No. 241,188, and in Great Britain Dec. 23, 1926. 1 Claim. (Cl. 74—59.)

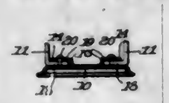
Variable speed gear of the epicyclic type comprising a driving and a driven shaft, a plurality of epicyclic gear trains adapted to provide a drive at different transmission ratios between said shafts, a brake member associated with each of the gear trains, a clutch adapted to engage the driving shaft with the driven shaft and thus provide a direct drive in high gear, selector members adapted to be moved in an axial direction and about their axes, a hand lever adapted to move axially said selector members to apply one or other of said brake members and enable as desired a driving connection through one or other of the gear trains to be obtained or to enable the clutch to be engaged for securing a drive in high gear, spring mechanism adapted to constrain the selector members to move about their axes in a given direction into the position to establish a driving connection, and a pedal adapted to move such selector members about their



axes in the reverse direction to interrupt the driving connection and permit a change in the transmission ratio to be effected.

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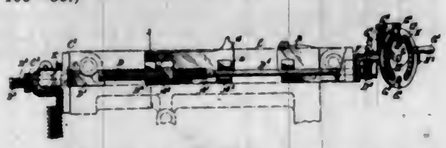
1,691,652. BOTTLE-CAPPING MACHINE. SIGMUND L. GOLDMAN, Chicago, Ill., assignor to Red Sun Products Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 1, 1927. Serial No. 209,708. 3 Claims. (Cl. 226—84.)



1. A capping machine comprising a base on which the article to be capped is supported, an upright rising therefrom and provided with a capping element, said base being formed with upwardly-deflected portions having lateral openings at the upper surface of said base and said upright being formed of legs having laterally-extending portions extending through said openings and beneath said deflected portions, and means securing said upright in position on said base.

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1,691,653. LINE-CASTING MACHINE. ALFRED W. F. GUEST, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Mar. 22, 1928. Serial No. 263,611. 10 Claims. (Cl. 199—50.)



1. In a line casting machine, the combination of a movable line confining jaw, a rotatable screw operatively connected therewith and adapted by its rotation to adjust the jaw to different positions, a crank shaft for rotating the screw, and a device operable directly by said shaft for indicating the adjusted positions of the jaw.

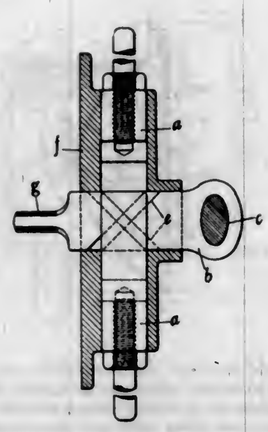
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1,691,654. PROCESS OF MAKING THICKENED LUBRICATING OIL. ROBERT W. HENRY, Port Arthur, Tex., and ELFORD D. STREETER, Bayonne, N. J., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Mar. 24, 1926, Serial No. 97,115. Renewed Oct. 3, 1928. 5 Claims. (Cl. 87—9.)

1. In the production of mineral castor oil of a constant viscosity and containing basic aluminum oleates, the process which comprises preparing an aqueous solution of soap, preparing a solution of an aluminum salt, and intermixing the two solutions in the presence of alkali, thereby precipitating a basic aluminum soap, and admixing the aluminum soap with mineral oil.



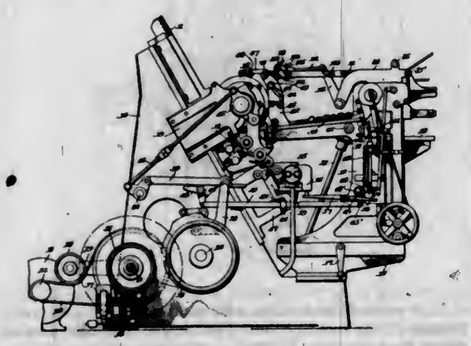
1,691,655. EMERGENCY-BOLT-OPERATING MEANS. CHARLES YEOMANS HOPKINS, Bordesley Green, Birmingham, England. Filed May 5, 1927, Serial No. 189,080, and in Great Britain May 31, 1926. 2 Claims. (Cl. 292—21.)



1. In emergency door bolts, the combination comprising a slidable actuating member formed on a pair of opposite sides with oppositely inclined slots, a pair of similarly formed slidable bolt members movable in opposite directions at right angles to the actuating member, an oblique integral projection on each bolt member adapted to engage one of the inclined slots of the actuating member, and a closely fitting body part adapted to enclose and support the adjacent portions of the bolt and actuating members, substantially as described.

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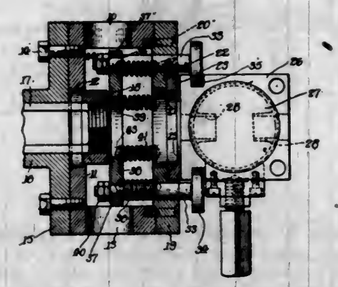
1,691,656. PRINTING PRESS. WILLIAM M. KELLY, Westfield, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Filed June 13, 1925, Serial No. 36,944. 25 Claims. (Cl. 101—278.)



1. In combination with a printing press having a reciprocating bed and an oscillating cylinder, receiving sheets at the lower side of the cylinder and printing them at one stroke, means for projecting the margins of the printed sheets from the cylinder during the terminal portion of the printing stroke, grippers moving towards and from the cylinder adapted to grasp said margins and strip the sheets from the cylinder at one end of their movement, and to open and release the sheets at the other end of their movement, and means to forward the sheets through the open grippers.

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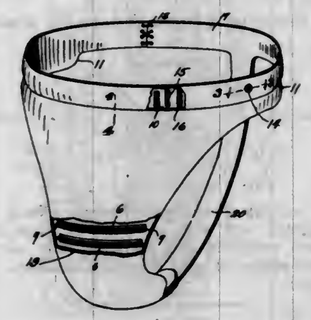
1,691,657. CHUCK. HERBERT E. KEMPTON, Chicago, Ill., and KEITH F. GALLIMORE and RAYMOND M. WOYTYCH, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed June 20, 1924, Serial No. 721,172. Renewed Sept. 21, 1928. 4 Claims. (Cl. 279—1.)



3. A chuck having, in combination, a body, a face plate, a plurality of clamping members extending through said face plate, a disk having a lost motion connection with said members permitting a limited independent movement of each member, spring means for moving said members in one direction into clamping engagement with the work, and means for engaging said disk to move said members in the other direction.

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1,691,658. PNEUMATIC GUARD. DANIEL J. KENNEDY, Yonkers, N. Y. Filed Feb. 17, 1928. Serial No. 255,033. 2 Claims. (Cl. 128—160.)

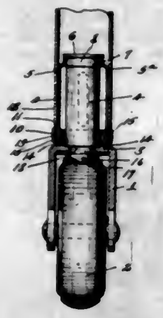


1. In an abdominal guard, a front pad of approximately triangular shape, a belt carrying the pad, and a strap connecting one angle of the pad with the rear portion of the belt, the front wall of the pad being made of flexible elastic material, and the rear wall of the pad being made of flexible inelastic material, whereby when the pad is inflated, it will assume a curved form and shape itself to the body of the wearer, means for inflating the pad, and transverse partitions connecting the front wall

of the pad with the rear wall of the pad, the ends of the partitions being spaced from the lateral edges of the pad to provide for a restricted shifting of air when the pad is subjected to pressure.

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1,691,659. CASTER. FREDERICK K. KILIAN, Syracuse, N. Y. Filed Mar. 13, 1923. Serial No. 624,843. 1 Claim. (Cl. 16—39.)

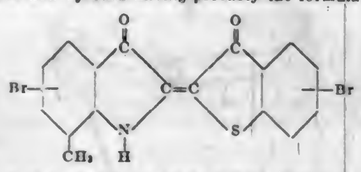


A caster for furniture and the like comprising a fork having an upwardly extending stud formed with a shoulder at its upper end and a resilient tubular shell on the stud and located below the shoulder, the shell being formed with lengthwise slots terminating short of its ends and being open at its ends and bulging between its ends, the shell also being provided at its lower end with an integral annular enlargement of greater diameter than the tubular portion of the shell, the outer face of the enlargement providing an exterior annular shoulder and raceways located within the enlargement and interposed between the bottom of the enlargement and the upper face of the fork around the stud.

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1,691,660. VAT DYESTUFFS OF THE 2.2'-INDOLE-THIONAPHTHENE-INDIGO SERIES. CARL KRAUSS, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 11, 1927, Serial No. 198,306, and in Germany June 15, 1926. 3 Claims. (Cl. 260—49.)

3. The new dyestuff having probably the formula—



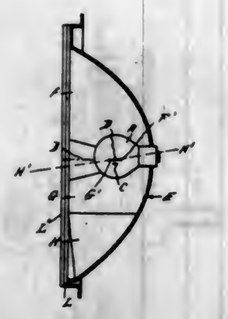

which is in a dry state a violet powder soluble in concentrated sulfuric acid with greenish-blue color dyeing the animal and vegetable fibre from a yellow vat beautiful clear violet shades of good fastness to chlorine, to boiling and to light.

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1,691,661. VEGETABLE GLUE AND METHOD OF MAKING SAME. IRVING F. LAUCKS and GLENN DAVIDSON, Seattle, Wash., assignors to I. F. Laucks, Inc., Seattle, Wash., a Corporation of Washington. Original application filed Oct. 29, 1923, Serial No. 671,381. Divided and this application filed Mar. 9, 1927. Serial No. 174,093. 40 Claims. (Cl. 87—17.)

16. In an aqueous vegetable protein-containing adhesive an ingredient which functions as a water-resistance-increasing agent, the same being the reaction product of carbon bisulphide therewith.

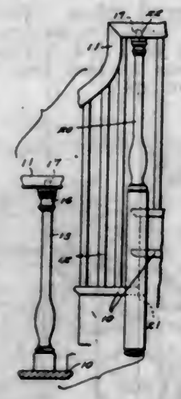
1,691,662. AUTOMOBILE HEADLIGHT. CLARENCE A. MICHEL, Cleveland, Ohio, assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 13, 1925. Serial No. 8,881. 2 Claims. (Cl. 240—41.)



1. In a light projector, the combination with a reflector, of a lamp having two independently lighted filaments one of said filaments being located on the axis of the reflector and the other one below said axis, the upper and lower halves of said reflector having different focal lengths, the focus of the upper half of the reflector being at the rear of the filaments and the focus of the lower half of the reflector in front of said filaments, the filaments being located intermediate the focal points, the lower portion of the lower half of said reflector being tilted downwardly whereby rays of light from either filament will be reflected downwardly.

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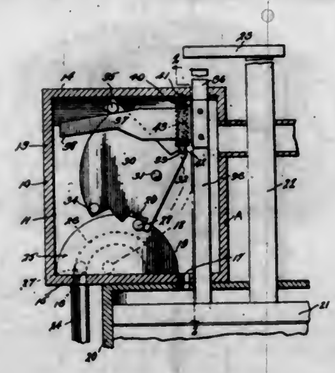
1,691,663. NEWEL POST. ROBERT E. MORRIS, Salisbury, Md., assignor to The Morris Brothers Company, Salisbury, Md. Filed Mar. 24, 1928. Serial No. 264,414. 2 Claims. (Cl. 20—10.)



1. A convertible landing and starting newel post, comprising a body having a base portion and a spindle portion rising from the base portion, a cap removably engaged on the upper end of the spindle portion and having a dowel extending upwardly from its upper end for engagement in an opening in the lower face of the hand-rail of a balustrade, and an upper newel post section having a socket in its lower end for the reception of said dowel, whereby the post serves as a landing newel when engaged with a hand rail and as a starting newel when carrying said section.



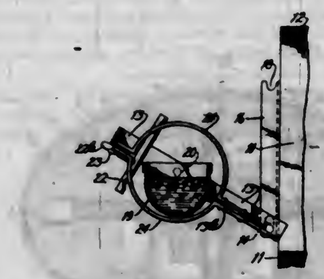
1,691,664. VALVE FOR WATER LIFTS. LOUIS E. MORRISON, Salida, Colo. Filed Oct. 16, 1924. Serial No. 744,035. 3 Claims. (Cl. 121—164.)



1. A valve structure of the character described, comprising a closed chest having an inlet, exhausts and a pair of outlets to an engine cylinder, an outlet, a sliding valve block acting when actuated to open or close one of said outlets and connect the other outlet with an exhaust, a pin member projecting from one face of said valve block, a quadrant body pivotally mounted within the chest and having a notch formed therein for loosely receiving said pin, a pair of spaced pin members upon one face of said body, a reciprocable arm within the chest alternately engaging the pin of said quadrant to oscillate the same upon its pivot and to cause the quadrant to impart reciprocatory movement to the valve block means controlling said quadrant for imparting a snap action to the movement thereof.

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1,691,665. POULTRY-COOP DOOR AND TROUGH. FRANCIS X. MUDD, Chicago, Ill. Filed Dec. 1, 1927. Serial No. 236,958. 3 Claims. (Cl. 119—12.)

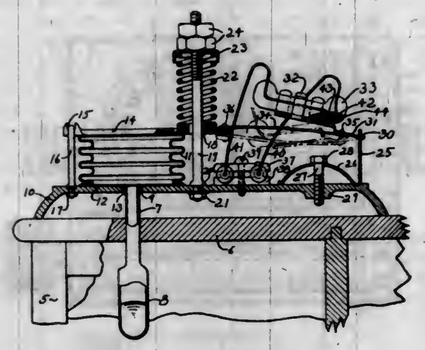


1. In combination with a hinged door for a poultry car, a trough pivotally supported on said door, the pivot points being located above the center of gravity of said trough.

2. In combination with a door for a poultry coop pivotally mounted at its lower edge, a trough carried by said door and pivotally supported thereon, the pivot points of said trough being located above the center of gravity thereof.

3. In combination with a door for a poultry coop pivotally mounted on a horizontal axis, a trough carried by said door and pivotally mounted thereon, the pivot points of said trough being located above the center of gravity.

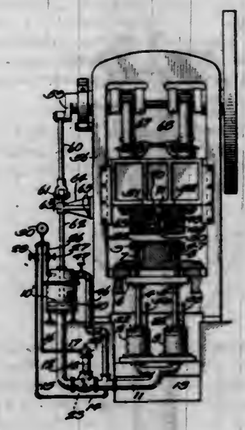
1,691,666. CONTROL FOR ELECTRIC CIRCUITS. GLENN MUFFLY, Detroit, Mich. Filed Nov. 26, 1926. Serial No. 150,714. 7 Claims. (Cl. 200—141.)



1. A control of the class described comprising a bellows adapted to be expanded and contracted in response to pressure variations, a plate overlying one end of the bellows and adapted to be moved by it, a flat spring member connected at one end to said plate and at the other end to a standard, said spring being held in arched position and being snapped from an arch in one direction to an arch in the other as said bellows expands and contracts, and a circuit make and break device connected with the spring and adapted to be actuated by its change of arch.

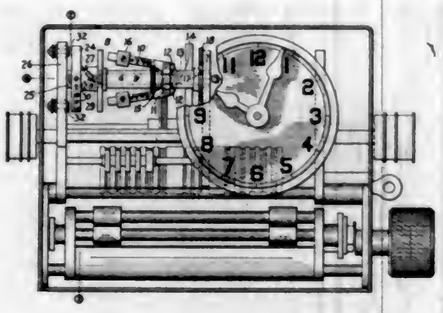
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1,691,667. PUNCH PRESS. OLOF G. NILSON, Chicago, Ill., assignor to Press Cushion Co., a Corporation of Illinois. Filed Apr. 12, 1926. Serial No. 101,457. 29 Claims. (Cl. 113—46.)



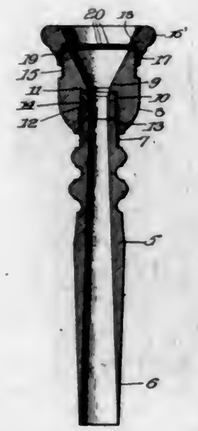
1. In combination, a punch press, a pressure pad moved in one direction by said press, separate means directly operated by the power which operates said press, for restoring said pressure pad to normal position, and means whereby the direct action of the restoring means itself will delay the operation of the said restoring means until the press has moved partly away from said pressure pad.

1,691,668. SPEED-CONTROLLING DEVICE FOR MOTOR VEHICLES. FREDERICK L. OHMER, Dayton, Ohio, assignor to John F. Ohmer, Dayton, Ohio. Filed Dec. 8, 1921. Serial No. 520,848. 6 Claims. (Cl. 200—80.)



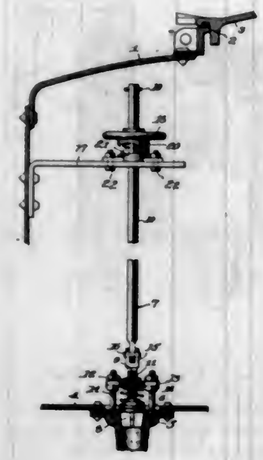
1. In a speed controlling mechanism for automobiles and the like, a hollow shaft rotatably mounted in fixed bearings and having openings in the sides thereof, means for rotating said shaft, a rod slidably mounted within said hollow shaft and held against rotation therewith, weighted arms pivotally mounted on said hollow shaft and having parts extending through the openings therein and engaging said rod to impart longitudinal movement thereto, a circuit breaker and closer mounted near one end of said hollow shaft and comprising a member rotatable about an axis parallel with the axis of said shaft, and means actuated by the longitudinal movement of said rod to impart rotatory movement to said rotatable member.

1,691,669. MUSICAL INSTRUMENT. WILLIAM J. OSTENDORF, Aurora, Ill. Filed Nov. 23, 1927. Serial No. 235,254. 2 Claims. (Cl. 84—399.)



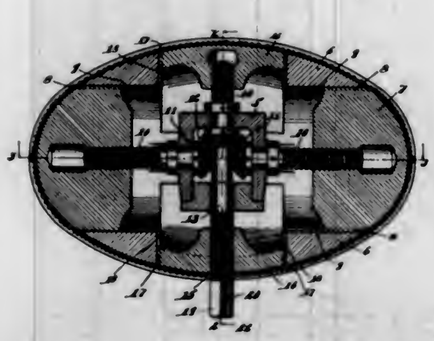
1. A mouth-piece for "brasses" comprising a cup, a separate stem-portion detachably connected with said cup, said cup containing a socket presenting a shoulder and into which said stem extends, and a removable throat-forming member located in said socket and clamped in position therein by said shoulder and said stem-portion.

1,691,670. VALVE-EQUIPPED CONTAINER. OSTRANDER J. PARKS, River Forest, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed June 16, 1927. Serial No. 199,236. 20 Claims. (Cl. 137—21.)



1. In combination, a member having a valve seat, valve mechanism comprising a valve proper for engaging said seat and an operating rod having threaded engagement with a stationary part of the structure whereby said valve proper is movable toward and from said seat, and cam means operated automatically to resist accidental rotation of said valve mechanism in a direction to unseat said valve proper.

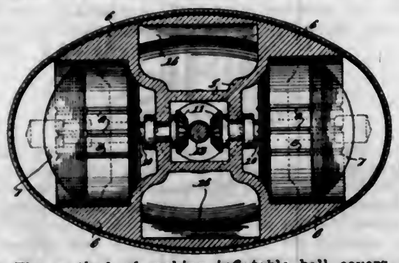
1,691,671. APPARATUS FOR MAKING INFLATABLE BALL COVERS. JOHN T. RIDDELL, Evanston, Ill. Filed Apr. 10, 1926. Serial No. 101,217. 3 Claims. (Cl. 69—8.)



1. A form member in the shape of the interior of a ball cover comprising a central frame having a portion thereof constituting a portion of the periphery of said form; guideways in said frame; end members movable in said guideways; and means for retracting and protruding said end members, substantially as described.

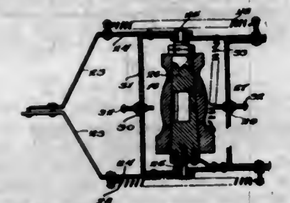


1,691,672. ART OF FORMING INFLATABLE-BALL COVERS. JOHN T. RIDDELL, Evanston, Ill. Original application filed Apr. 10, 1926, Serial No. 101,217. Divided and this application filed Dec. 29, 1926. Serial No. 157,605. 4 Claims. (Cl. 69—21.)



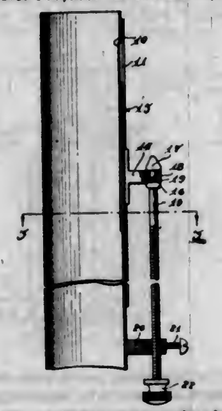
1. The method of making inflatable ball covers, comprising shaping and sewing coved parts together over a form and in the shape thereof; partially ripping said cover parts to permit removal from said form; removing the cover parts from the form; and then resewing said cover parts together substantially where ripped.

1,691,673. PRESSURE REGULATOR. LOUIS H. F. ROHE and SAMUEL ROHE, Mirando City, Tex., assignors of one-fourth to Johannes M. Rohe, Mirando City, Tex. Filed Apr. 30, 1926. Serial No. 105,791. 2 Claims. (Cl. 137—139.)



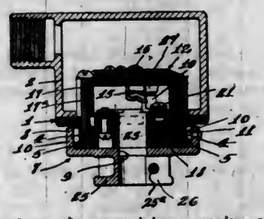
1. In a gas-regulating apparatus, a gas supply pipe, a cut-off valve in the gas supply pipe, a lever terminating in a yoke spanning the valve and mounted for rocking movement about the axis thereof, means for rocking said lever, a yoke disposed at the opposite side of the valve from the lever and connected with the valve, and a tension spring extending between and attached to said yoke and the lever whereby to yieldably maintain the lever in its raised or lowered position and hold the valve closed or opened.

1,691,674. TUNING ATTACHMENT FOR PIPE-ORGAN PIPES. SILAS SILVERS, Detroit, Mich. Filed Apr. 30, 1926. Serial No. 105,660. 2 Claims. (Cl. 84—349.)



2. In combination with an organ pipe having an opening formed therein, a pair of guide members extending longitudinally of said pipe on the periphery thereof, one at each side of said opening; a closure for said opening slidably mounted between said guide members; a bracket projecting outwardly from said closure; a threaded stem projected through said bracket; a head on said stem engaging one side of said bracket; a head on said stem engaging the opposite side of said bracket, the portion of said stem between said brackets being reduced and projected through said bracket, rotatable therein; a bracket mounted on said pipe, said bracket having a threaded opening formed therein for the reception of a threaded portion of said stem, the rotation of said stem in said threaded opening effecting a movement of said plate longitudinally of said pipe and relatively to said opening; and a set screw threaded into said bracket for engaging said stem and locking the same against rotatable movement.

1,691,675. DROP-CORD ROSETTE. ELDA G. SMITH, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 20, 1923. Serial No. 663,922. 1 Claim. (Cl. 173—329.)



A drop cord rosette comprising a casing consisting of a ring-shaped base and a cap, the base having a cylindrical flange around the opening thereof and an outturned annular flange at the end of the cylindrical flange, the annular flange being formed with notches therethrough, and the cap being formed with notches therethrough, and the cap being formed with a cup-shaped portion to receive the cylindrical flange and with diametrically opposite shoulders for passing through the notches and interlocking with the annular flange upon successive endwise and partial rotary movement of the cap, a terminal block mounted on the base having hook-shaped terminals exposed to the opening in the base, and a terminal block on the cap having complemental hook-shaped terminals arranged to hook under the terminals associated with the base upon successive endwise and partial rotary movements of the cap.

1,691,676. DENTAL IMPRESSION TRAY. ERNEST ROBERT SMITH, San Francisco, Calif. Filed May 18, 1926. Serial No. 109,856. 7 Claims. (Cl. 32—6.)

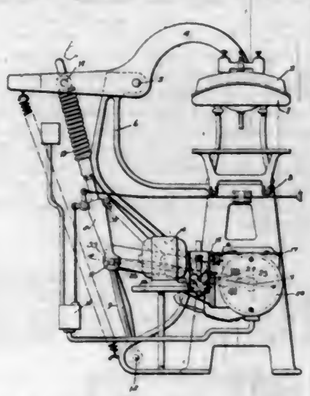


1. A dental impression tray comprising a pair of complementary sections, means including a nut having a plurality of symmetrically disposed cam faces for detachably clamping and unclamping said sections by a rotation of said nut in either direction.

1,691,677. MECHANISM FOR PRESSING MACHINES HAVING START AND STOP MOTORS. ALEXANDER J. SOCIA and JOSEPH P. DALY, Syracuse, N. Y., assignors, by mesne assignments, to The Prosperity Company, Inc., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,822. 15 Claims. (Cl. 68—9.)

1. In a pressing machine, the combination of cooperating pressing elements, one of which is movable toward and from the other, and mechanism for actuating the movable

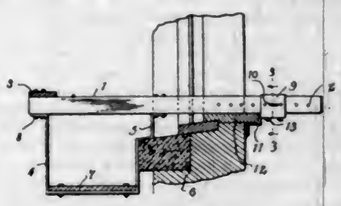
element including an intermittently rotatable shaft, motion transmitting means between the shaft and the movable element including a toggle, connections between the shaft and



the toggle for moving the toggle toward and from nearly straightened position, and additional connections between the shaft and the toggle for finally straightening the toggle and initially breaking the toggle.

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1,691,678. WINDOW SCAFFOLD. SVEN GUNNAR SWANLIND, Chicago, Ill. Filed Apr. 6, 1927. Serial No. 181,476. 1 Claim. (Cl. 304—24.)



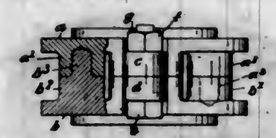
A window scaffold comprising two parallel bars of a length to project beyond opposite sides of a window sill, and having the inner end portion of each bar provided with a plurality of openings, a U-shaped hanger depending from the outer end portion of each of the bars and having its inner leg offset to provide a sill rest, a cross bar connecting the outer ends of the parallel bars and forming a guard, a staging connecting the lower portions of the hangers, cuffs adjustable on the inner ends of the parallel bars, pins adapted to pass through openings in the sides of the cuffs and selected openings of the parallel bars to secure the cuffs in the required adjusted position, and hooks carried by the cuffs to engage the stool of the window.

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1,691,679. METHOD OF PRODUCING ANTHRAQUINONE SULPHONIC ACIDS. JOHN THOMAS, Carlisle, England, assignor to Scottish Dyes Limited, Carlisle, England. Filed Jan. 10, 1923, Serial No. 611,848, and in Great Britain Jan. 18, 1922. 1 Claim. (Cl. 260—57.)

The process which consists in sulphonating about 100 parts of anthraquinone with about 210 parts of oleum containing 40% free $SO_3$, bringing down the sulphuric acid to a strength of about 80% by addition of about 500 parts of concentrated sulphuric acid of about 94–98% strength by weight, and about 90 parts of water, filtering off the alpha disulphonic acids which crystallize out, adding to the filtrates a mercury compound equivalent to about 3.5% of mercurous sulphate and heating at a temperature of about 180° C. for about 10 hours.

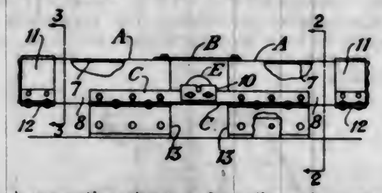
1,691,680. LINK FOR USE IN COAL-CUTTING MACHINES AND THE LIKE. THOMAS JOHNSON THOMPSON, Sunderland, England. Filed Jan. 21, 1928, Serial No. 248,427, and in Great Britain Dec. 6, 1926. 2 Claims. (Cl. 74—32.)



1. A link of the kind described comprising two complementary side plates, each plate having two bosses on one side thereof, dowel pins projecting from two of the bosses and recesses in the other complementary bosses into which said dowel pins are adapted to engage, a lug on each side plate adjacent the outer edge thereof, and means for clamping said lugs together.

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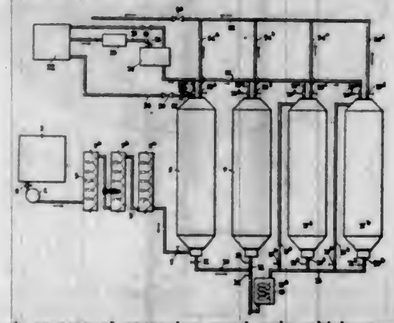
1,691,681. CONVEYER OF THE BELT TYPE. JAMES THOMSON, Glasgow, Scotland, assignor to Mavor and Coulson, Limited, Glasgow, Scotland. Filed Jan. 14, 1928, Serial No. 246,778, and in Great Britain Jan. 18, 1927. 4 Claims. (Cl. 198—129.)



1. A supporting structure for rollers of a conveyer of the belt type, comprising longitudinal units of inverted trough formation, each unit having a roofing and downwardly extending sides, connection means for connecting units arranged end to end with an intervening space between their adjacent ends, said connection means comprising a roofing extending longitudinally over the intervening space, carriers extending longitudinally across said intervening space, one carrier at each side, said carriers being at a distance below the level of the roofing, mountings on the longitudinal units for rollers for the upper run of the belting, mountings on the carriers for rollers for the lower run of the belting, the upper run being above the roofing the lower run being below the roofing, and pedestal supports at the ends of the longitudinal units, for the purposes set forth.

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1,691,682. PROCESS AND APPARATUS FOR PRODUCING WOOD PULP. CARL BUSCH THORNE, Hawkesbury, Ontario, Canada. Filed Apr. 5, 1926. Serial No. 99,914. 16 Claims. (Cl. 92—7.)

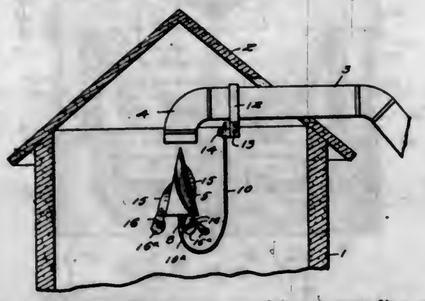


1. A process of preparing wood pulp which comprises injecting a preheated liquor into wood chips in a digester against a substantially constant pressure derived from an external gas and causing a circulation of said liquor in the digester, pressure for said circulation being derived from said external gas.



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1,691,683. AUTOMATIC ENSILAGE DISTRIBUTOR FOR SILOS. HERBERT A. TOWNSEND, Stockton, Ill. Filed Jan. 15, 1926, Serial No. 81,495. Renewed Apr. 12, 1928. 2 Claims. (Cl. 198—128.)



1. An ensilage distributor comprising a spreading element, impelling elements secured to the spreading element, scattering elements pivoted to the impelling elements, and elements for supporting the scattering elements in different positions with respect to the impelling elements.

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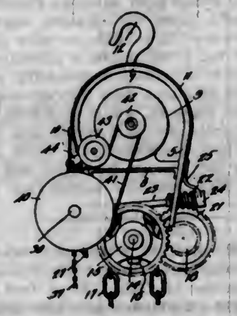
1,691,684. SAFETY LIGHTING DEVICE FOR VEHICLES. HARRY W. TROMANHAUSER, Waterloo, Iowa. Filed Aug. 12, 1927. Serial No. 212,523. 3 Claims. (Cl. 40—133.)




1. In a device of the character described, a signal carrying device comprising a bracket clamping means mounted removably upon a projecting part of a vehicle, a base body rockingly mounted upon said clamping means, means for resiliently yieldingly controlling the rocking movements of said base body, a lighting device mounted upon said base body, and a windowed housing removably mounted upon the base body surrounding said lighting device.

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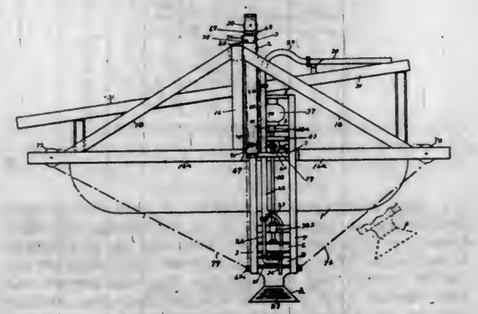
1,691,685. HOIST. THEODORE ULMER and GOTTLIEB ULMER, Alpena, S. Dak. Filed May 9, 1923. Serial No. 637,782. 1 Claim. (Cl. 254—168.)



In a portable hoist a frame including a pair of end sections, the upper portions of the end sections being curved, a curved cover plate connecting the end sections, each end section including a lower bar, a shelf supported between the end sections and defining a motor support, gearing supported by the frame, a motor on the motor support for operating the gearing and a hook member secured to the curved cover plate, and said hook member adapted to be positioned in a supporting eye.

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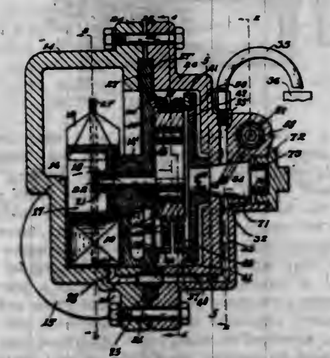
1,691,686. HYDRAULIC DREDGING MECHANISM. LEROY VORHIES, Denver, Colo. Filed Apr. 28, 1927. Serial No. 187,361. 5 Claims. (Cl. 37—63.)



2. In a hydraulic dredge, the combination with a boat provided with a frame carrying a horizontally disposed journal, of a vertically disposed open sleeve rotatably mounted on said journal; a frame slidably mounted in said sleeve; a ground engaging member mounted on the lower end of said slidably mounted frame, said ground engaging member being provided with a sand channel and two water channels, the water channels being open at the tops, each water channel being provided with an intake at the side and a tapered discharge at the bottom and a horizontally disposed centrifugal sand pump mounted on said ground engaging member and provided with two outlets.

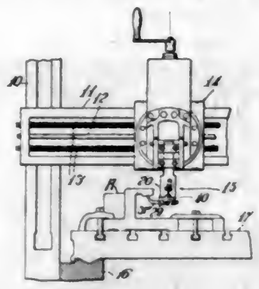
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1,691,687. PIPE-LINE SAMPLING DEVICE. JOHN S. WATTS, Los Angeles, Calif. Filed Dec. 7, 1925. Serial No. 73,715. 7 Claims. (Cl. 73—21.)



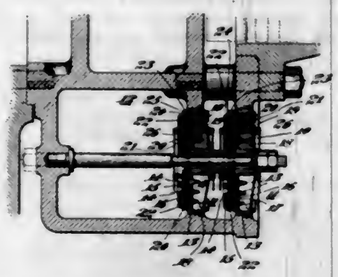
1. In an organization of the general character described: a main member interposable in a pipe line through which a fluid is advancing under pressure, said member providing a main passage, with which a subsidiary passage communicates, and a completely closed rotor chamber, said passages and chambers having walls adapting them to resist internal pressure; a revolving rotor in said chamber, operated by the main stream of fluid passing through the pipe line; and means, driven by said rotor, for causing successive unit quantities of fluid to advance through said subsidiary passage.

1,691,688. TOOL HOLDER. DANIEL D. WELLS, Albuquerque, N. Mex. Filed July 27, 1925. Serial No. 46,231. 11 Claims. (Cl. 90—52.)



1. In a metal working machine, a rigid head portion terminating at the bottom in a rearwardly depending spindle, a bit-holding member journaled on said spindle so as to have lateral swinging movement and disposed forwardly beneath said head portion, the head portion and said member being provided with interengaging surfaces whereby the extent of swinging movement is controlled, and controllable means for yieldingly holding said member in its operative positions.

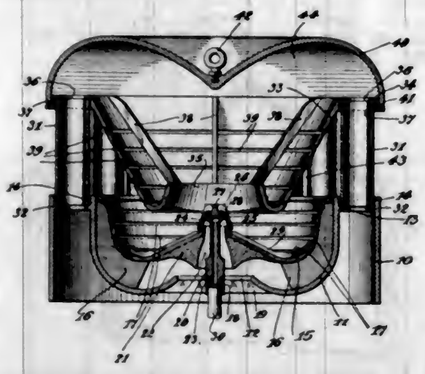
1,691,689. VALVE. ARTHUR J. WEST, Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Sept. 25, 1925. Serial No. 58,647. 5 Claims. (Cl. 251—119.)



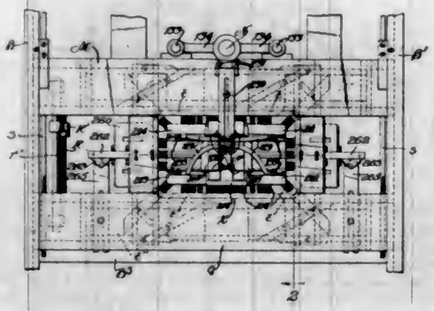
5. In a valve, the combination of a seat member, a backing member, studs carried by the seat member for detachably supporting and spacing the backing member with respect to the seat member, a plate valve arranged between the backing and seat members and having openings for the studs, a plurality of bearing faces spaced equi-distantly angularly on the backing member and so arranged that when in position the uppermost of said faces will be substantially horizontal, and a plurality of lips extending laterally from the plate valve and spaced equi-distantly angularly and the uppermost one of said lips being arranged to engage the uppermost one of said bearing faces to sustain the weight or load of the valve in service.

1,691,690. LIQUID-FUEL BURNER. COTTRELL C. WHEELER, Forest Hills, N. Y. Filed May 18, 1926. Serial No. 109,882. 10 Claims. (Cl. 158—91.)

1. A liquid fuel burner comprising a base, a bowl, means for admitting fuel thereto, a plurality of closely spaced air ducts rising from the outer portion of the said base, a frusto-conical hood extending downwardly between the said air ducts and terminating in a discharge nozzle adjacent the said means for the admission of fuel, and a cover providing a chamber into which the said air ducts discharge, the said bowl, hood, and air ducts constituting a self-contained combustion chamber from which the flame passes through the spaces between the said air ducts.



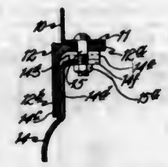
1,691,691. MACHINE FOR MAKING BOOK COVERS. JOSEPH V. WHITE, Chicago, Ill. Filed Aug. 6, 1927. Serial No. 211,180. 11 Claims. (Cl. 154—41.)



11. In a machine for making round corner cases for books, a platform, means for advancing a glued flexible cover over said platform, a picker head adapted to carry cover-boards to a position above said cover and to press them thereon, said picker head having a plurality of pins extending outwardly from the straight edges, grooved plates movable thereover to fold the margins of the cover over the edges of the cover-boards, a plurality of parallel pins at the corners extending outwardly at substantially 45° from the side pins, said pins extending to substantially the outer edges of said cover-boards, a grooved plate movable inwardly over said corner pins to fold the margin in and crimp it between said cover pins where it will be held by the glue on the cover, and means for withdrawing the pins from the turned-over edges.

1,691,692. STOVE. ZENO C. WILKINSON, Warren, Ohio, assignor to Youngstown Pressed Steel Co., Warren, Ohio, a Corporation of Ohio. Filed Oct. 28, 1927. Serial No. 229,343. 6 Claims. (Cl. 126—305.)

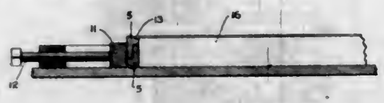
1. In stove construction, an inwardly projecting seat at the lower edge of the stove for supporting a leg, a depending bracing band at the outer edge of the seat, and a leg having an inwardly bent flange along its entire upper edge adapted to rest on the leg supporting seat, the outer surface of the upper end of said leg adapted to



bear against said depending bracing band to brace the leg, and means for attaching the flange on the leg to the leg supporting seat on the stove.

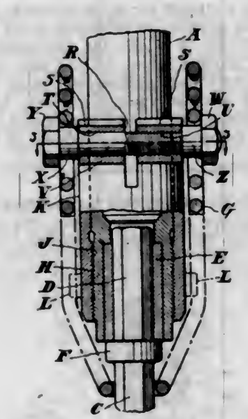


1,691,693. TYPE BEARER. ALBERT A. WILSON, Chicago, Ill. Filed Oct. 15, 1927. Serial No. 226,327. 10 Claims. (Cl. 101—402.)



1. A type bearer comprising a plurality of sections; each section being of less height than the height of type and having grooves therein for permitting said sections to fit together; said completed type bearer being the height of type.

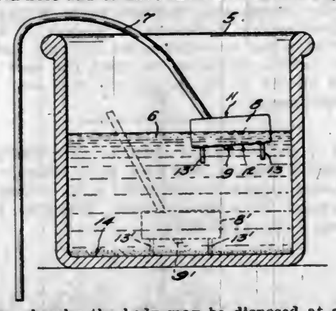
1,691,694. SUPPORT FOR IMPLEMENT RETAINERS. WILLIAM FRANK ZIMMERMANN, Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 28, 1928. Serial No. 250,249. 4 Claims. (Cl. 121—32.)



1. The combination with a pneumatic tool cylinder, having a tool mounted therein and a retainer for the tool of a sleeve adapted to be disposed on the cylinder, means for clamping the sleeve to the cylinder, said means forming a pivotal support for the implement retainer.

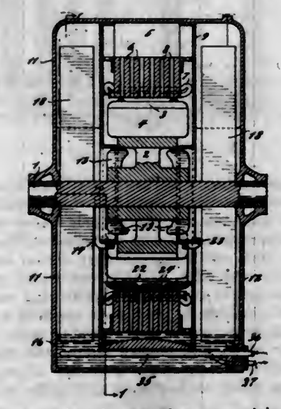
1,691,695. SIPHON ATTACHMENT. ARTHUR L. ARMBRUSTER and CHARLES W. MADISON, Seattle, Wash. Filed Mar. 29, 1927. Serial No. 179,224. 1 Claim. (Cl. 137—20.)

A flotative siphon-hose regulating device comprising in combination a body having a plane under surface and provided with an opening arranged in inclined relation with respect to said under surface and extending entirely through the body, said hole being of a diameter to receive the siphon-hose and to have the latter frictionally engage



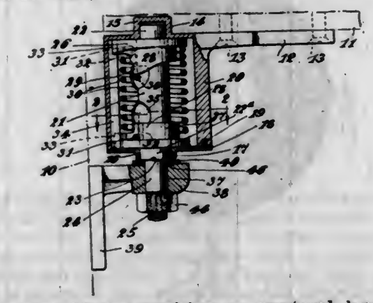
the body whereby the body may be disposed at a desired position along the length of the hose, and leg elements depending from the body at opposite sides of said opening.

1,691,696. DYNAMO-COOLING SYSTEM. FRANK G. BAUM, San Francisco, Calif. Filed Dec. 6, 1927. Serial No. 238,019. 13 Claims. (Cl. 171—252.)



1. A dynamo-electric machine comprising a rotor, a stator, a housing enclosing the same, a reservoir within the housing, an arm secured to the rotor and extending into the reservoir, a stationary pocket having an opening in position to receive liquid thrown by said arm, and a conduit for permitting the flow of liquid from said pocket to the interior of the rotor.

1,691,697. SPRING HINGE. EMIL BOMMER, Brooklyn, N. Y. Filed Mar. 5, 1925. Serial No. 13,013. 1 Claim. (Cl. 16—182.)

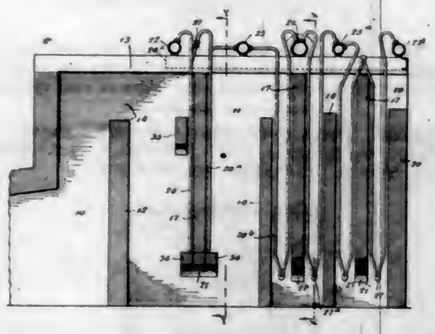


A spring hinge comprising an apertured bracket, a pivot pin seated in the aperture in the bracket, means for locking the pin in fixed position in the bracket, the

pivot pin being substantially cylindrical and having vertically extending shoulder means between the upper and lower ends thereof, said shoulder means being swaged out of the cylindrical stock forming the body of the pivot pin, a spiral spring surrounding the pivot pin, and upper and lower collars carried on the pivot pin, each engageable with an end of the spring, and with said swaged-out shoulder means.

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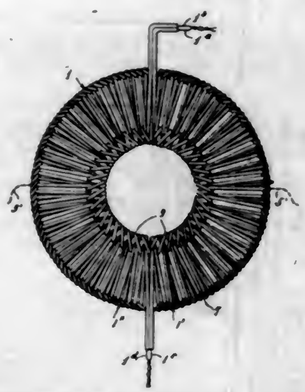
1,691,698. SEPARATELY-FIRED SUPERHEATER. BENJAMIN N. BRODO, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed June 17, 1924. Serial No. 720,476. 8 Claims. (Cl. 122—485.)



1. In a superheater, a furnace, a superheating chamber having an inlet communicating with said furnace and an outlet; a plurality of superheater tubes extending within said chamber in the direct path of the furnace gases, a baffle wall extending partially across said chamber adjacent to said inlet, a ledge projecting from each side of the bottom of said wall, a deflecting surface extending across one side of said wall opposite said inlet, said ledge and deflecting surface forming with said baffle wall a pair of pockets located out of the flow of the gases from said furnace, and a plurality of superheater units extending along each side of said baffle wall within said pockets.

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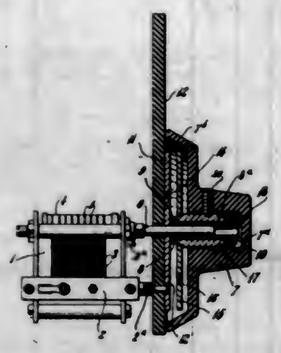
1,691,699. TRANSFORMER AND INDUCTANCE. ALLEN D. CARDWELL, Rockville Center, N. Y. Filed May 16, 1925. Serial No. 30,666. 10 Claims. (Cl. 175—359.)



1. A toroidal coil comprising a conductor having turns whose peripheral portions are located side by side and inner portions of groups of turns adjacent, means securing the outer turns together and spaced apart, and means securing said groups of turns together and spaced apart from other groups.

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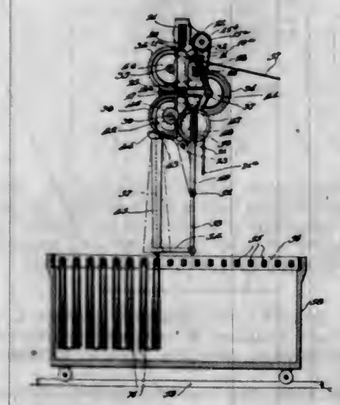
1,691,700. MEANS FOR VARIABLY CONTROLLING ELECTRICAL INSTRUMENTS. ALLEN D. CARDWELL, Rockville Center, N. Y. Filed June 27, 1925. Serial No. 39,097. 4 Claims. (Cl. 175—41.5.)



1. An electrical instrument comprising complemental elements movable relatively one to another, a controlling member rotative independently of the movable element, a stationary cam member, a second cam member rotative relatively to the stationary cam member and connected with the controlling member for operation thereby, an arm connected with the movable element, and a ball cooperative with said arm and with said cam members and movable relatively thereto for actuating the movable element at variable distances for given distances of rotation of the controlling member for producing equal changes in the electrical circuit in which the instrument is used, the arm having guiding means for the ball, whereby rotation of the movable cam member will cause the ball to travel along the arm for variably rotating the movable element in conformity with given movements of the controlling member for changing the constants of the circuit.

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1,691,701. METHOD OF DYEING YARN. EDWIN E. CARLSON and LAWRENCE A. STEAD, Chester, Pa. Filed May 17, 1927. Serial No. 191,957. 4 Claims. (Cl. 8—5.)

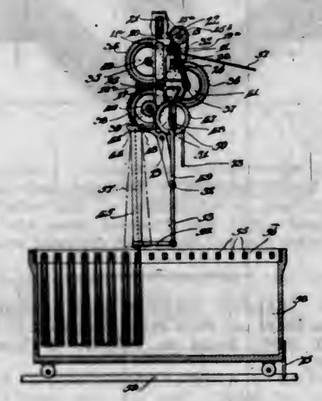


1. The method of dyeing yarn consisting of looping the yarn over one pole of a rack until the pole is filled, leading the yarn to an adjacent pole in the rack and looping same over this pole until it is filled, continuing this process until the length of yarn is suspended on the rack, and immersing the rack in a dye bath.



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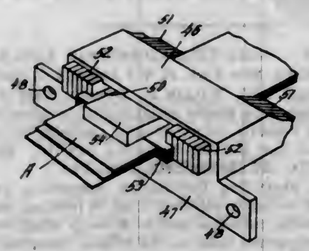
1,691,702. APPARATUS FOR PREPARING WARP YARN FOR DYEING. EDWIN E. CARLSON and LAWRENCE A. STEAD, Chester, Pa. Filed May 17, 1927. Serial No. 191,958. 11 Claims. (Cl. 8—19.)



7. Yarn plaiting mechanism including a main frame, an auxiliary frame carried by the main frame, a plaiting tube oscillatable in the auxiliary frame, means for feeding yarn through the plaiting tube, a main shaft rotatable in the main frame, a screw shaft threaded in the auxiliary frame and rotatable in the main frame, clutch sprockets rotatable on the main shaft and mechanically connected to the screw shaft, and clutch parts slidably keyed to the main shaft and adapted to selectively engage the clutch sprockets.

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1,691,703. GUIDE APPARATUS FOR STRIP-ROLLING MILLS. ALEXANDER FIELDER CLARKE, Pittsburgh, Pa. Filed May 27, 1927. Serial No. 194,612. 7 Claims. (Cl. 80—51.)



1. In a device for pack rolling metal strips, a guide consisting of an open frame, separator plates arranged within the frame and side members arranged within the frame and adapted to contact with the sides of the strips.



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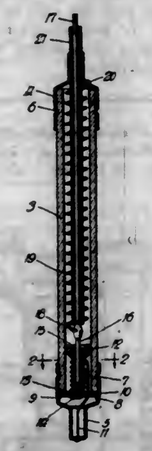
1,691,704. PILING. EUGENE FRANCIS CONSIDINE, Walkerville, Ontario, Canada. Filed Oct. 23, 1926. Serial No. 143,770. 2 Claims. (Cl. 20—100.)



1. A sectional wood pile comprising a lower unpreserved section adapted to be completely below water level and an upper section which has been treated with a preservative.

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1,691,705. PROTECTOR. WALLACE L. COOK, Chicago, Ill., assignor to Reliable Electric Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1926. Serial No. 151,422. 1 Claim. (Cl. 200—123.)

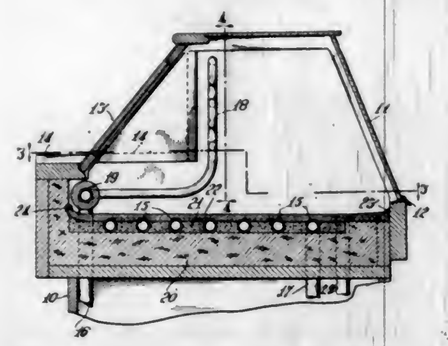


A thermal protector of the character described comprising a pair of electrodes, heat responsive means for normally retaining said electrodes in electrical engagement and adapted upon undue increase in heat to permit separation of said electrodes, a spring normally under stress adapted to cause a wide separation of said electrodes upon softening of said heat responsive means, means for again setting said electrodes into operative position upon resoftening of said heat responsive means, an enclosing

shell housing said electrodes, heat responsive means and spring, and indicating means projecting from said shell for indicating the relative position of said electrodes with respect to each other.

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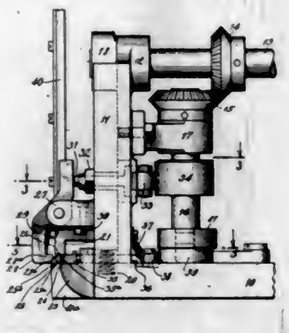
1,691,706. DISPLAY COUNTER. FRANK W. DAEMICKE, Chicago, Ill., assignor to Paul J. Daemicke Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 11, 1927. Serial No. 182,738. 1 Claim. (Cl. 62—37.)



A display counter of the character described having glass side walls, the bottom being provided with insulating material formed to provide a recess on its upper surface extending substantially from front to rear and from end to end, refrigerating coils arranged in the recess, an enclosure for said coils consisting of plastic water and cold resisting material filling said recess and embedding the coils except for the top surfaces thereof, a covering of cold conducting and temperature retaining cementitious material arranged in intimate contact with said plastic material and the tops of the coils so as to prevent passage of air and moisture therebeneath, and drain outlets extending downwardly from said covering to the bottom of the counter.

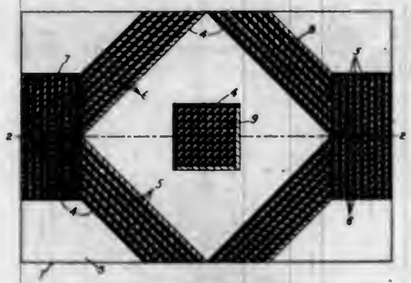
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1,691,707. MEANS FOR SEALING CONTAINERS. ANTHONY DANIELS, Newark, N. J. Filed Feb. 18, 1924. Serial No. 693,446. 25 Claims. (Cl. 113—1.)



1. A machine for effecting a closure on an end of a collapsible tube with a clip comprising means for retaining the clip, means for clamping together the sides of the tube end between the sides of the clip, and means for thereafter folding the clinched clip and tube end portion to form a seam.

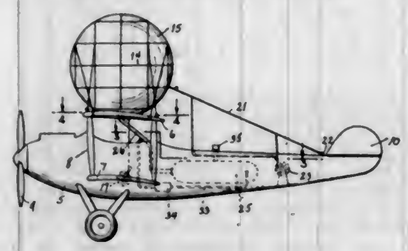
1,691,708. FLOOR COVERING. JAMES ERNEST A. EGLESON, East Orange, N. J., assignor to Congoleum-Nairn, Inc., a Corporation of New York. Filed Aug. 17, 1927. Serial No. 213,484. 6 Claims. (Cl. 41—30.)



1. As a new article of manufacture, a linoleum floor covering having embossed or depressed areas forming a pattern thereon, a multiplicity of light-reflecting surfaces formed within said depressed areas, and a transparent coating material filling such depressed areas.

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1,691,709. SAFETY DEVICE FOR AEROPLANES. PIROSKA ELLER and JOHN ELLER, New York, N. Y. Filed Dec. 27, 1927. Serial No. 242,717. 2 Claims. (Cl. 244—21.)



1. A safety device of the class described in combination with the fuselage and wings of a machine, an envelope or balloon having an outer network supported on the top wings, cables connected to said network, certain of said cables passing through the top wings and adapted to be wound on a winch, an inlet pipe and gas storage tanks in communication therewith for inflating said envelope or balloon and means for deflating said envelope or balloon.

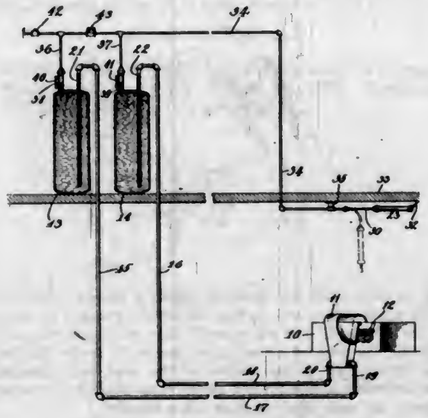
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1,691,710. FIRE-EXTINGUISHING APPARATUS. FRANK A. EPPS, New York, N. Y.; ADDISON O. BONIFACE, East Orange, and WILLIS D. WITTER, Roselle Park, N. J., assignors, by mesne assignments, to American La France and Foamite Corporation, a Corporation of New York. Filed Apr. 1, 1922, Serial No. 548,610. Renewed Dec. 24, 1924. 27 Claims. (Cl. 169—14.)

1. A foam protecting installation comprising an acid solution tank, a basic solution tank, a mixing chamber below said tanks, valveless siphon delivery pipes for connecting the respective tanks to the mixing chamber, means operative only through a period of short duration for initiating the flow in both said siphon delivery pipes, the flow thereafter being predominantly a gravity flow and means opening the tanks to the atmosphere sufficiently to compensate the delivery of liquid therefrom.

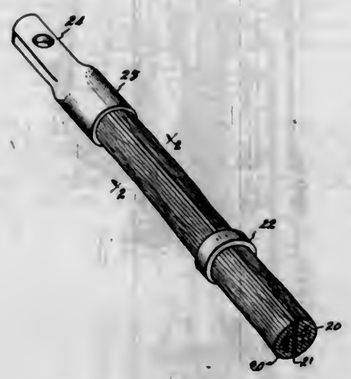
19. In fire extinguishing apparatus a container for fire extinguishing charge, a casing for communication therewith, and a gravity-operated gas producer loose therein and made up as a separate refill unit having a casing containing both a cartridge and operating means therefor, one of which is free to fall onto the other to set off the cartridge when the casing approaches the vertical.





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1,691,711. PARACHUTE. ARTHUR E. FIXEL, Detroit, Mich. Filed Aug. 13, 1926. Serial No. 128,946. 5 Claims. (Cl. 244—21.)

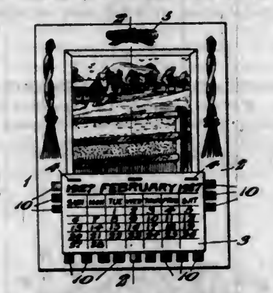


1. A flexible rib for parachutes, consisting of outer portions of fibrous material and a non-adhering intervening strip of spring metal.

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1,691,712. ADVERTISING DEVICE. HARVEY FREDERICK, Newark, N. J. Filed Feb. 15, 1927. Serial No. 168,285. 1 Claim. (Cl. 206—82.)

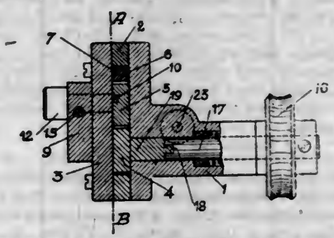
An article of the character stated, comprising a thin, relatively flat support, arranged to receive conventional calendar portrayals, a leaf having a table of information thereon, said leaf being secured at its top only to said support, and specimens of goods to be advertised fixed along the free marginal edges of said leaf and projecting in both horizontal and vertical manner therefrom, and an additional leaf secured at its top only to said support and arranged to cover said first mentioned leaf and concealing



the attachment portions of said specimens but being of such size as to permit the projected ends of said specimens to be visible at all times.

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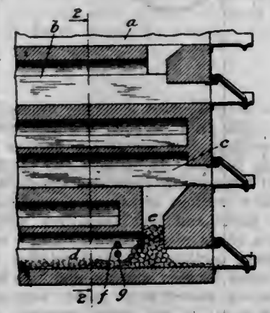
1,691,713. VISCOSE-DISTRIBUTING DEVICE FOR ARTIFICIAL-SILK PLANTS. ARMAND CHARLES FREY, Soultz, France. Filed Mar. 30, 1927, Serial No. 179,679, and in Switzerland Mar. 31, 1926. 1 Claim. (Cl. 103—120.)



A gear wheel pump for distributing viscose in artificial silk plants comprising in combination: a casing; a positively driven spur wheel closely lodged in a cylindrical recess formed inside the casing; a second spur wheel meshing with said driven spur wheel, a crescent-shaped member in which said second spur wheel is eccentrically lodged said crescent-shaped member being freely lodged in a circular recess inside said casing, and a peg rotatably mounted in the pump casing and ending with an eccentrically placed stud engaging a slit formed in the outer periphery of the crescent-shaped member, substantially as described.

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1,691,714. PROCESS OF REDUCING THE CADMIUM CONTENT OF ZINC ORE. OSCAR GERLACH, Peru, and NILS OSTMAN, La Salle, Ill., assignors to Matthiessen & Hegeler Zinc Co., La Salle, Ill., a Corporation of Illinois. Filed Dec. 3, 1926. Serial No. 152,376. 6 Claims. (Cl. 75—17.)



1. A process of removing cadmium from oxygen-containing zinc ore which comprises subjecting the ore to steam

and an amount of reducing agent sufficient to reduce the cadmium but not a material part of the zinc contained in the ore at a temperature at which both cadmium and zinc reduce.

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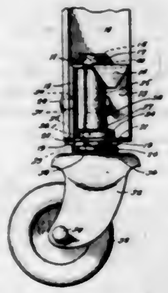
1,691,715. STEEL GUIDE FOR SUBMARINE DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 5, 1927. Serial No. 224,162. 5 Claims. (Cl. 255—51.)



1. A submarine drill unit, having a main frame provided with guides, a guide frame vertically movable on said guides, a drilling element, a tubular mud guard adjustably supported at the lower end of said guide frame below the drilling element whereby the weight of the drilling element may rest upon the mud guard to force it down to the rock to be drilled, a drill steel guide freely slidable vertically on the guide frame, and means for raising and lowering said drill steel guide.

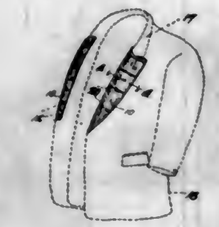
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1,691,716. CASTER-MOUNTING BRACKET. WALTER F. HEROLD, Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 5, 1926. Serial No. 79,328. 6 Claims. Cl. 16—29.)



1. In a furniture support mounting bracket for attachment to an angle iron support, a removable pintle element, a transverse sheet metal top portion including a pintle bearing portion, an attachment portion integral with and bent downwardly from said top portion, said top and attachment portions acting as a suspension support between the pintle and said angle iron support a base plate having a pintle receiving opening and supported by said attachment portion in spaced relation to said top portion, the space between said top and base portions providing a laterally unobstructed pocket between said portions upon removal of the pintle whereby said attachment portion is laterally accessible at its inner side along lines intersecting the pintle when the latter is in place.

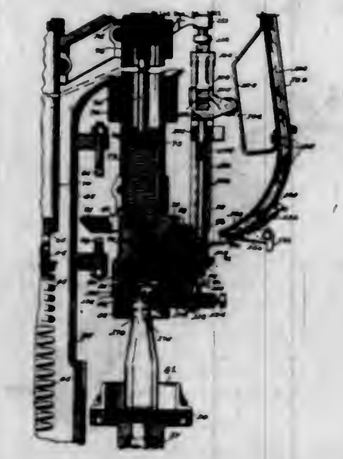
1,691,717. DETACHABLE LAPEL. FRANCIS HOPER, Baltimore, Md. Filed Apr. 16, 1928. Serial No. 270,293. 2 Claims. (Cl. 2—93.)



1. A false lapel for coats including a facing adapted to cover a coat lapel and having one edge arranged to underlie the coat body and an opposite edge portion arranged to underlie the edge of a coat lapel, means to secure the first edge detachably to the inside of the coat, and clamping and stiffening means carried by the false lapel and arranged to grip the coat lapel on both sides thereof.

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1,691,718. FILLING AND CROWNING MACHINE. GEORGE JOHN HUNTLEY, Baltimore, Md., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Dec. 29, 1921. Serial No. 525,544. 15 Claims. (Cl. 226—77.)



1. A machine of the character described having a crowning-head with a crown passage therein, means for moving the head, means supported independently of the head but movable to and from the crown-passage to feed crowns one at a time thereto, said means being moved by the head, means movable lengthwise of the head for closing said passage when the crown feed moves away therefrom, said latter means also being moved by the head and means for filling the container while the passage is closed.

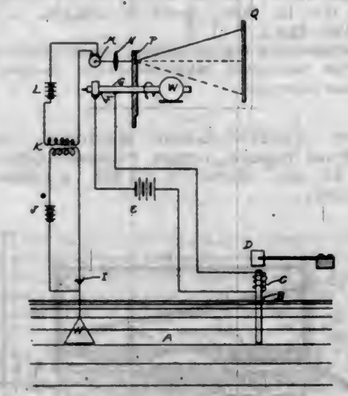
10. A machine of the character described having a reciprocating crowning head, a filling-nozzle carried by the head, a sealing-gasket, a cup beneath the filling-nozzle and said cup supporting the sealing-gasket, links depending at opposite sides of the head and engaging the cup, means pivotally carried by the crowning head and also pivotally



connected to the said links on the opposite sides of the head for moving said links and the cup to compress the sealing gasket and adjustable trip devices for actuating the latter pivoted means as the head is reciprocated.

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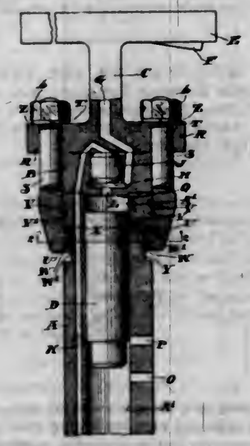
1,691,719. DEPTH METER. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Sept. 29, 1923. Serial No. 665,729. 1 Claim. (Cl. 177—386.)



In a device for measuring distances, a stationary calibrated scale, a lamp, a lens for imaging the light from the lamp upon the scale, sound producing means, a rotatable member including light refracting means interposed between the lens and the calibrated scale for moving the image along the scale, means for rotating the light refracting member and actuating the sound producer to produce impulses in synchronism with the rotation thereof, sound response receiving means and a circuit connected therewith including means for flashing the lamp upon the reception of a sound impulse.

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1,691,720. HANDLE FOR PNEUMATIC TOOLS. FRANCIS A. JIMERSON, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 24, 1926. Serial No. 150,495. 1 Claim. (Cl. 121—36.)



In a pneumatic tool, the combination of a cylinder, a back head forming a closure for the cylinder, a handle portion, lugs on said handle portion, bolts passing through said lugs, said bolts having screw threads for the reception of nuts on the rear end, flat faces on the front end, hooked portions on the front end, similar flat faces and hooked portions formed on and in the cylinder wall permitting cooperation between the bolts and the cylinder whereby the back head and cylinder are secured rigidly relative to each other.

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1,691,721. PROCESS OF AND MATERIAL FOR TREATING CONCRETE. NATHAN C. JOHNSON, Englewood, N. J. Filed Apr. 2, 1926. Serial No. 99,330. 10 Claims. (Cl. 25—154.)



1. A product of the class described for treating concrete surfaces or the like, comprising an area of flexible sheet material having one side covered with selected concrete aggregate material secured thereon by an adhesive, said adhesive including a substance having the property of inhibiting the normal setting action of a concrete mixture to a limited depth when applied to the surface thereof.

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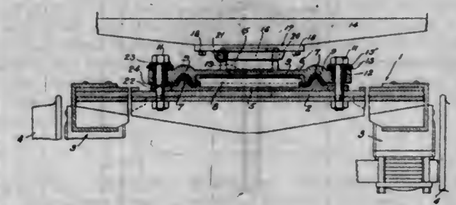
1,691,722. METALLIC JOIST. JULIUS KAHN, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed May 23, 1925. Serial No. 32,406. 4 Claims. (Cl. 189—37.)



1. A metallic joist consisting of a sheet metal web portion cut out to form a chord portion with spaced triangular portions projecting laterally therefrom with their apexes integral with said chord portion, and having flat upper and lower surfaces formed by welding angle irons to the sides of said chord portion and to the sides of the bases of the triangles.

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1,691,723. CUSHIONING CONNECTION. WALTER C. KEYS, Detroit, Mich., assignor to The Mechanical Rubber Company, Cleveland, Ohio, a Corporation of New Jersey. Filed May 21, 1928. Serial No. 279,442. 8 Claims. (Cl. 105—200.)

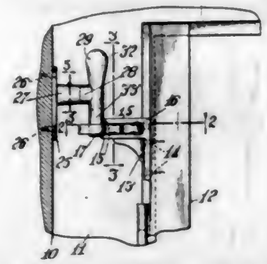


1. A cushioning connection for vehicles intermediate their body portion and trucks, comprising a pair of members operatively connected to the body portion and trucks

respectively and provided with complementary projections and recesses and vibration deadening material located intermediate said projections and recesses and filling the space between said complementary projections and recesses.

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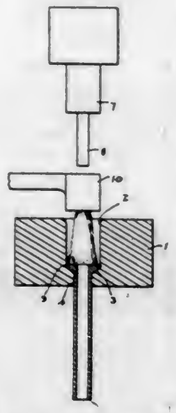
1,691,724. DOOR-HOLDING MEANS. EDWARD A. KRUSCHKA, Milwaukee, Wis. Filed Jan. 10, 1927. Serial No. 160,121. 1 Claim. (Cl. 292—18.)



Door holding means comprising a wall bracket having a laterally disposed hollow boss provided with a circumferentially disposed slot, a tiltable latch member having a rearwardly disposed trunnion seated in said boss, a pin in said trunnion and movable in said circumferentially disposed slot for holding the latch member in place and for controlling its degree of oscillation, said latch member being provided with a handle portion disposed toward one side of the median line of the latch member at an angle less than ninety degrees whereby the latch member is maintained in its adjusted positions, a door bracket provided with a slot and a pair of vertically spaced arms, a pair of jaw members pivotally mounted between said arms in spaced relation to move about vertically disposed axes, the rear ends of said jaw members being extended into said slot with the opposing faces of the jaw members adjacent the rear ends each having a laterally disposed boss, and a coil spring, the ends whereof are seated on said bosses for normally forcing the forward ends of the jaw members toward each other.

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1,691,725. METHOD OF PRODUCING METAL TUBES. JOHN WYCLIFFE LEIGHTON, Port Huron, Mich. Filed Sept. 30, 1926. Serial No. 138,675. 2 Claims. (Cl. 207—6.)



1. A method of extruding metal tubes, consisting in placing a heated billet in a die, then partly extruding the same from the die, by means of a punch, then withdrawing the punch, leaving the partly extruded billet in place, then reheating the unextruded portion of the metal, then placing a heated billet in the die above said reheated unextruded portion and returning the punch into the die against said heated billet to complete the extrusion of the preceding tube and effect the partial extrusion of said heated billet.

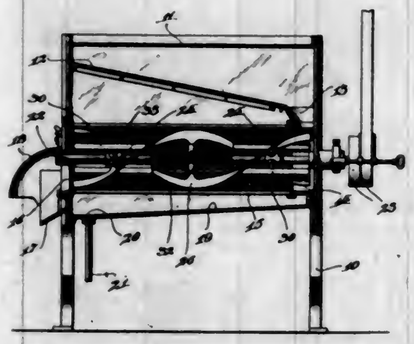
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1,691,726. ART OF PROTECTING AND FIREPROOFING MATERIALS. CHARLES LICHTENSTADT, Chicago, Ill. Filed Feb. 10, 1928. Serial No. 253,525. 5 Claims. (Cl. 134—78.6.)

4. A composition for the purpose stated comprising zinc ammonium phosphate, mono-ammonium phosphate and ammonium chloride.

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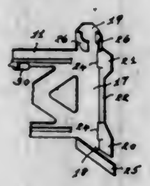
1,691,727. FRUIT-CLEANING MACHINE. JOHN R. LITTY and TRUED B. LUNDIN, Philadelphia, Pa. Filed Mar. 22, 1927. Serial No. 177,244. 2 Claims. (Cl. 146—194.)



2. A fruit cleaning machine including a frame, a shaft rotatable therein, means for rotating the shaft, a cleaning drum surrounding the shaft, means for delivering fruit and water to the interior of the machine, brushes secured to the shaft longitudinally thereof with their bristles in contact with the drum, beaters having their outer edges spaced from the walls of the drum, and stems formed integral with the beaters for securing the beaters to the shaft; each beater extending substantially the entire length of the drum and making nearly a complete turn around the shaft.

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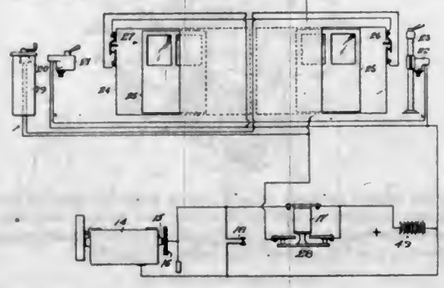
1,691,728. MINIATURE OR TOY FENCE SECTION. JOHN CLARKE MATTHAI, Baltimore, Md., assignor to The Homeland Mfg. Co., Baltimore, Md., a Corporation of Maryland. Filed Apr. 29, 1927. Serial No. 187,420. 5 Claims. (Cl. 256—24.)



1. In a miniature fence formed of sheet metal sections each having engaging lugs projecting from one end thereof and at the opposite end each section being provided with a back-turned flange with slots therein to receive the lugs of another section and at said slots each section having a grip tang to engage the lug that enters said slot.



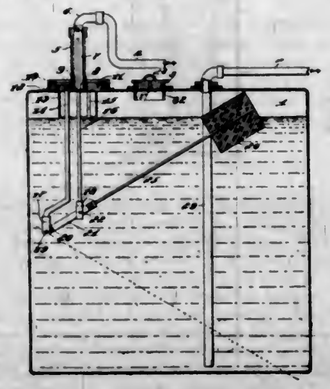
1,691,729. SAFETY MECHANISM FOR STREET CAR AND DOOR OPERATION. GEORGE WASHINGTON MEYERS, Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 20, 1919. Serial No. 318,774. 3 Claims. (Cl. 180—82.)



1. In a car having a driving motor therefor, the combination with a car door, and means for opening and closing the same, of an electrically operated locking device for locking said means against operation, a circuit for said device including a source of current, said locking device being released when current is supplied thereto, a normally open switch included in said circuit, a magnet for controlling said switch whereby when said magnet is energized said switch is closed, and means on the motor shaft actuated by the motor coming to a full stop for energizing said magnet to thereby render operative said locking device.

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1,691,730. GASOLINE GAUGE. WILLIAM H. MUZZY, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 23, 1921. Serial No. 471,780. 1 Claim. (Cl. 73—82.)

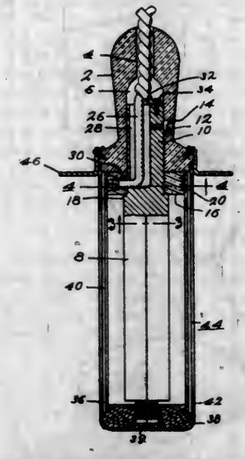


In an automobile the combination with an engine and its intake manifold, of a fuel tank, a pressure responsive vacuum gauge for indicating the depth of fuel in the tank, a vacuum pipe connected to the manifold and the gauge, a float in the tank, an air controlling device operated by the float and connected to the vacuum pipe for regulating the flow of air to the vacuum pipe to inversely correspond to the depth of fuel in the tank.

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1,691,731. ELECTRIC WATER PURIFIER. WILLIAM M. MYERS, St. Joseph, Mo., assignor to Earle H. Rorabaugh, Kansas City, Mo. Filed May 21, 1927. Serial No. 193,324. 4 Claims. (Cl. 204—25.)

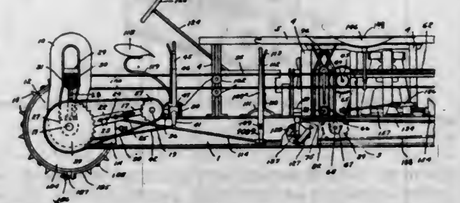
1. A device of the character described consisting of an inner electrode adapted to be immersed in water within a container, an outer electrode surrounding said inner electrode and adapted to be immersed in the water, a handle secured to the inner electrode and abutting one end of said outer electrode, a cover for the container secured to said



handle, a cap nut threaded upon the inner electrode and adapted to force the inner electrode firmly against said handle, and an insulating housing adapted to be forced by said cap nut against the handle.

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1,691,732. PORTABLE-MACHINE FRAME. JAMES NICKELS, Silvis, Ill. Filed Feb. 3, 1927. Serial No. 165,517. 2 Claims. (Cl. 180—41.)



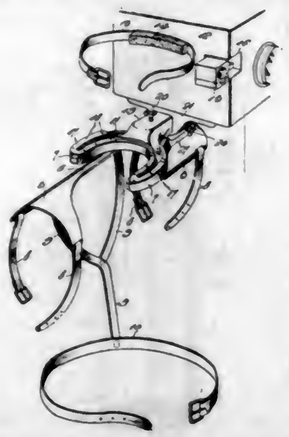
1. In a machine of the class described, a frame and superstructure mounted thereon, running gear at the ends thereof, connections between said frame and running gear permitting a vertical movement of the frame, gearing for raising or lowering the forward end of said frame, gearing for raising or lowering the rear end of said frame, a motor supported in said frame and transverse engine shaft driven thereby, a secondary shaft rotatably mounted in said frame, means connecting said engine shaft with said secondary shaft to rotate the same in a given direction, means connecting said engine shaft with said secondary shaft to rotate the same in a reverse direction, both of said means being normally out of play, clutch devices for actuating one or other of said means, as desired, a third shaft rotatably supported, and means connecting the same with said secondary shaft to impart the movement thereof to said third shaft at a reduced rate of speed, and mechanism connecting said third shaft with the raising and lowering gearing at both ends of the machine, to simultaneously operate the same.

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1,691,733. CAMERA SUPPORT AND MANIPULATOR. NILS ALBIN NORDIN, Seldovia, Territory of Alaska. Filed July 25, 1927. Serial No. 208,368. 7 Claims. (Cl. 95—86.)

1. A camera support and manipulator comprising a body-carried support having an arcuate track for disposition in

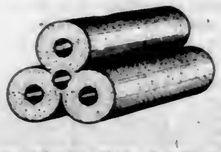
substantially concentric relation with the user's neck, a camera-supporting shoe connected with said track for movement along the same, and camera-manipulating means for



engagement with the user's head, whereby upon turning of the head the shoe will be moved along the track and the camera consequently swung horizontally.

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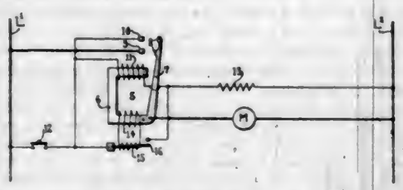
1,691,734. PEAT FUEL. RAYMOND E. OBER, Crosby, Minn. Filed Aug. 15, 1927. Serial No. 212,937. 4 Claims. (Cl. 44—14.)



1. A unit of peat fuel initially in substantially the form of multiple hollow cylinders.

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1,691,735. ELECTRICAL CONTROLLER. FREDERICK H. OBERSCHMIDT, Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 22, 1924. Serial No. 700,985. 7 Claims. (Cl. 200—122.)

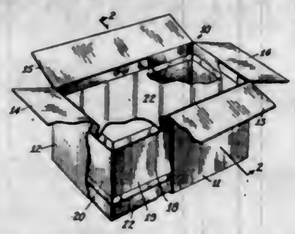


1. In a controller for electric motors and the like, the combination with control means for the motor and thermo-responsive timing inductive means for said control means, of means to subject said thermo-responsive means to thermic influence of a value substantially independent of the value of energy consumed by the controlled motor.

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1,691,736. CONTAINER. FERDINAND S. OPPENHEIM, New York, N. Y. Filed Dec. 17, 1924. Serial No. 756,462. 3 Claims. (Cl. 229—14.)

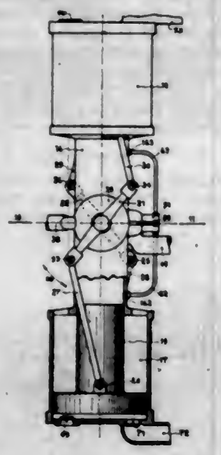
1. A packing and shipping box comprising an outer casing having side and end walls and a relatively stiff, one-piece lining member folded to form a shell having a packing space of substantially rectangular cross-section adapted to receive the contents, said member including double bracing portions extending outwardly from and along the corner edges of said shell, said portions arranged to fit into ad-



jacent corner portions of said casing walls for spacing and rigidly supporting said shell within the casing, and flaps outwardly bent from the rim of said shell to serve as supplementary bracing and spacing supports therefor.

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1,691,737. FLUID-ACTUATED COMPRESSOR. RAUL PATERAS PESCARA, Paris, France. Filed June 2, 1927, Serial No. 195,981, and in France June 17, 1926. 11 Claims. (Cl. 230—56.)



1. In a compressor of the type described a plurality of compressing cylinders, a common motor cylinder coaxially disposed with respect thereto, a piston in each of said compressing cylinders, a second driving piston integral with each of said first mentioned pistons and extending into said common cylinder, a stud shaft mounted on said motor cylinder midway between said compressing cylinders, a plurality of two armed levers mounted loosely on said stud shaft, means for pivotally connecting each extremity of said levers pivotally to said pistons on the compressing portion thereof whereby synchronous movement of said pistons is assured, means for supplying a fluid under pressure to said motor cylinder and means operated by said levers for causing said fluid to drive said pistons in opposite directions at regular intervals.

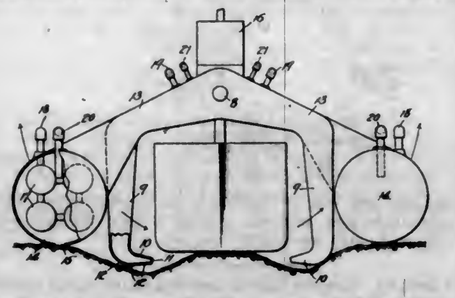
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1,691,738. SALVAGING APPARATUS. GEORGE G. POWELL, New York, N. Y., assignor to Antoinette M. Powell, New York, N. Y. Refile of abandoned application Serial No. 259,538, filed Oct. 24, 1918. This application filed Mar. 3, 1923. Serial No. 622,668. 9 Claims. (Cl. 114—53.)

1. A salvaging apparatus comprising elongated pontoons, the length of said pontoons being approximately that of the wreck to be salvaged, a series of hollow tong-like members extending between said pontoons and having one of their ends rigidly secured to the same, means



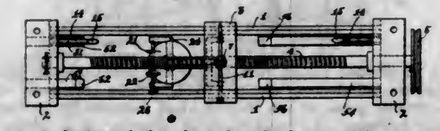
for pivotally connecting said hollow tong-like members intermediate said pontoons, means for carrying air under pressure in said pontoons, means for releasing air within said pontoons, means for carrying air under pressure to said hollow tong like members, means for releasing air



from said hollow tong like members, a central station to which all of both said means is operatively connected, said air permitting the admission of water and ejection thereof from said pontoons and said hollow tongs whereby the specific gravity of the same may be varied, and means dividing said pontoons into compartments.

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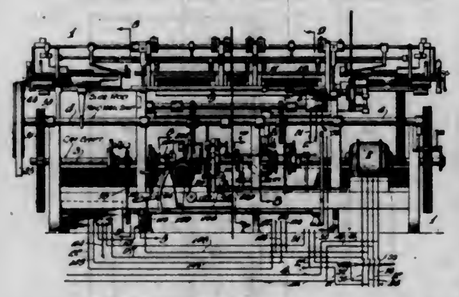
1,691,739. METHOD AND APPARATUS FOR TESTING THE SPREAD OF INK. MILTON O. SCHUR, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Dec. 16, 1921. Serial No. 522,867. 13 Claims. (Cl. 33—36.)



1. A device of the class described comprising a shaft, a pair of wheels spaced apart on said shaft, one of said wheels having a circumferential ink-receiving slot therein, and means for exerting a drawing effort on said shaft, said means including a pivotal connection between said shaft and said means midway of said wheels through which said effort is exerted.

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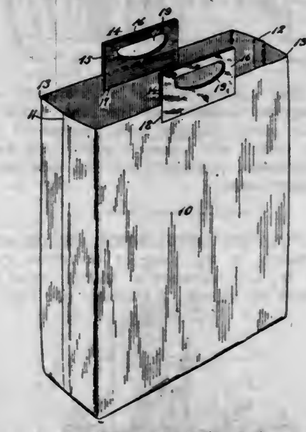
1,691,740. AUTOMATIC CONTROLLING AND TIMING MECHANISM FOR FULL-FASHIONED HOSIERY MACHINES. JAMES E. SHOEMAKER, Philadelphia, Pa. Filed July 16, 1923. Serial No. 651,705. 3 Claims. (Cl. 66—167.)



1. The described mechanism for controlling knitting machines for producing full fashioned hosiery which comprises the combination with a knitting mechanism, of a narrowing mechanism, adapted to co-operate with the former, an electric motor, adapted to drive said knitting mechanism, a primary set of rotary electric circuit controlling means, connected with the knitting mechanism to be operated thereby, an electromagnetic switch operatively connected with said electric motor and circuit controlling means, the latter being adapted to automatically control successive working periods of the knitting machine in accordance with the specific number of courses to be made respectively in the welt, the garter top, the leg, the high splice and the heel section of the stocking, a second set of rotary electric circuit controlling means, connected with the knitting mechanism to be driven thereby, an electromagnetically operated pawl, operatively connected with said narrowing mechanism and the second set of circuit controlling means, the later being adapted to automatically control the narrowing mechanism in accordance with the designed shape of the stocking.

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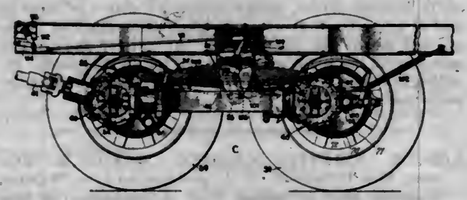
1,691,741. CARRYING BAG AND HANDLE THEREFOR. GEORGE C. SNYDER, Long Island City, N. Y., assignor to Kaelma Manufacturing Company, Inc., New York, N. Y., a Corporation of New York. Filed May 9, 1924. Serial No. 712,038. 4 Claims. (Cl. 229—54.)



1. In a carrying bag, a bag-body, and opposite handles having hand-holes, each handle comprising sheet members of separate material secured together beyond the mouth of the bag and having separated bag-attaching portions straddling the bag material and secured thereto, the hand-holes being located between the outer edges of the handles and the edge of the mouth of the bag.

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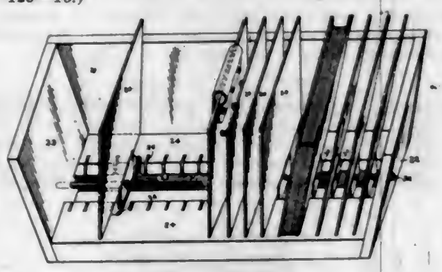
1,691,742. RUNNING GEAR FOR MOTOR VEHICLES. ELLIS W. TEMPLIN, Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed June 30, 1921, Serial No. 481,519. Divided and this application filed Nov. 9, 1925. Serial No. 67,930. 13 Claims. (Cl. 188—2.)



1. In a motor vehicle, the combination with a chassis, including a driving truck mounted to oscillate thereon about a horizontal axis, of a plurality of axles for the truck, a housing for each axle, individual brake mechanisms for the truck wheels mounted upon the associated housings, reach rods pivoted together adjacent the axis

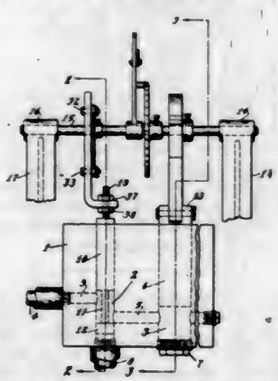
of oscillation of the truck and connecting the brake mechanisms of all the wheels on one side of the truck, and devices upon the chassis operable to move the pivot of the reach rods into concentric relation with said axis of oscillation to set said brake mechanisms.

1,691,743. PLANFILE. ROY E. ULRICH, Jamestown, N. Y., assignor to Ulrich Planfiling Equipment Company, Jamestown, N. Y., a Corporation of New York. Filed Mar. 8, 1926. Serial No. 93,020. 5 Claims. (Cl. 129—16.)



5. In a filing system, a base longitudinally recessed, laterally disposed notches cut into the walls of said recess; a tab, means engaging said notches for positioning said tab within said recess; a guide card secured to said tab and means removably securing said guide card and tab in said base.

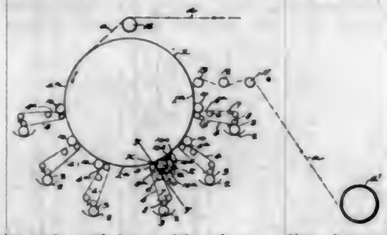
1,691,744. PUMPING MECHANISM. WALLACE B. VAN ARSDEL, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed May 13, 1925. Serial No. 29,895. 3 Claims. (Cl. 103—1.)



1. Apparatus for pumping hot fluid, comprising a block having bores therein disposed in a plurality of substantially parallel planes, means associated with the bores in one of said planes actuable to pump fluid supplied thereto, and means for plugging all but two of the surface openings of the bores in each of the remaining planes, the unplugged openings being available as inlet and outlet ports for heating fluid.

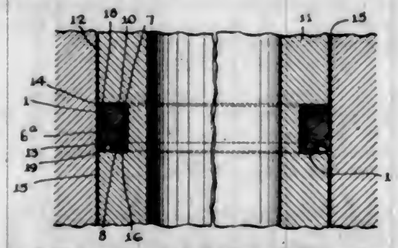
1,691,745. PRINTING MACHINE. WILLIAM H. WALDRON, New Brunswick, N. J., assignor to John Waldron Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Aug. 8, 1927. Serial No. 211,422. 3 Claims. (Cl. 101—178.)

1. In a printing machine, the combination of a platen surface; a color depositing element adjacent said platen surface and having a portion arranged in such a manner with respect to said platen surface as to form therewith a pair of convergent surfaces for the reception of a design cylinder therebetween, which, regardless of its diameter, will contact with both of said convergent surfaces



and its axis will be positioned on a line, intermediate said convergent surfaces, bearing a fixed relation with respect to said convergent surfaces.

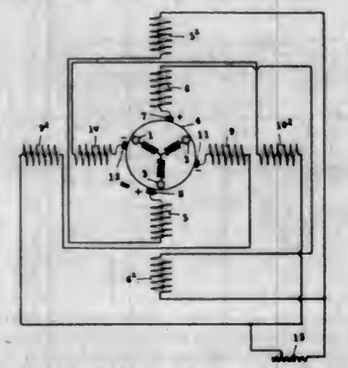
1,691,746. PISTON RING AND METHOD OF MAKING THE SAME. ROBERT B. WASSON, Cranford, N. J. Filed Dec. 17, 1920. Serial No. 431,399. 15 Claims. (Cl. 29—156.6.)



1. A divided piston ring of substantially uniform rectangular radial cross section, condensed on both sides of the middle plane of the ring to exert uniform radial outward pressure, the condensations existing to a greater degree on one side of the middle plane of the ring than the other, whereby unbalanced stresses are introduced into adjacent annular portions.

12. A new and useful method of making piston rings, which consists in so condensing said ring between the flat sides of the ring, on both sides of, and offset with respect to, the middle plane of the ring as to distort the oil side of the ring.

1,691,747. ALTERNATING-CURRENT MOTOR. HANS WEICHSEL and BRADLEY MCCORMICK, St. Louis, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 14, 1926. Serial No. 81,179. 2 Claims. (Cl. 172—280.)

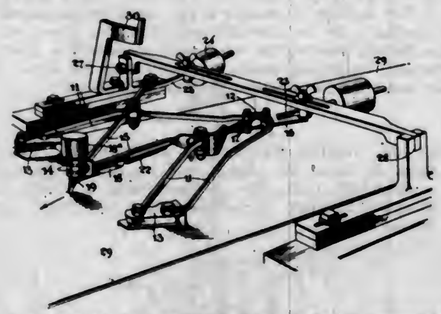


1. In an alternating current motor, the combination of an inducing member provided with a commutator and brushes, an induced member provided with a plurality of exciting windings adapted to produce an N-pole magnetization of more than two poles, each pole of the machine being provided with two exciting windings in good inductive relation to each other, said windings being connected to comutator brushes to magnetize in the same direction but not connected in series with the same set of brushes, and an adjustable resistance arrangeil to connect the exciting windings which are directly connected to brushes of positive polarity in circuit with the exciting windings which are directly connected with brushes of negative polarity.

2. In an alternating current motor, the combination of an inducing member provided with a commutator and brushes, and an induced member provided with a plurality of exciting windings adapted to produce N-pole magnetization of more than two poles, each pole of the machine being provided with two exciting windings in good inductive relation to each other and connections between the commutator brushes and exciting windings so arranged that the exciting circuits have a common point to which each brush is connected through at least one winding, the windings on each pole being connected to different brushes but brushes of like polarity and said windings being arranged to magnetize in the same direction.

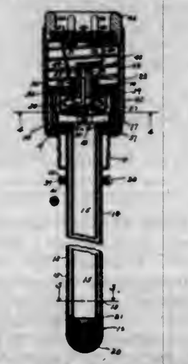


1,691,748. MARKING DEVICE. DAYTON L. WILLIAMS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 31, 1925. Serial No. 19,667. 10 Claims. (Cl. 33—191.)



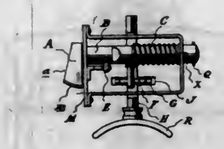
1. A device for marking sheet material comprising means for marking the material and means actuated by the marking means during movement of the material for automatically centering the marking means upon the material.

1,691,749. ELECTRIC HEATER. JOHN A. WILLIAMS and EUGENE LEQUORNIK, Richmond Hill, N. Y. Filed Nov. 24, 1926. Serial No. 150,510. 41 Claims. (Cl. 219—41.)



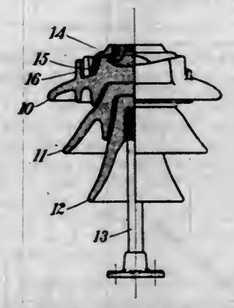
1. In an electric heater of the class described, a metal tube, a smaller metal tube located concentrically within said first tube and electrically insulated therefrom, said inner tube closed at one end and provided with a diaphragm at the other end, a quick expanding substance placed in said inner tube, a switch actuated by said diaphragm, and means for connecting said outer tube and said switch to an electric current, the circuit being completed when the tubes are immersed in a liquid.

1,691,750. LOCK AND LATCH. CHARLES R. ALLEY, Washington, D. C. Filed July 1, 1925. Serial No. 40,846. 5 Claims. (Cl. 70—29.)



1. A lock comprising a rotatable and longitudinally movable bolt, a spring exerting an axial and torsional pressure on the bolt, a latch-seat for securing the bolt in retracted position, said spring exerting its torsional pressure to hold the bolt to its latch-seat, a keeper formed with a cam-surface for coacting contact with the end of the bolt for rotating the bolt to release it from its latch-seat and permit axial projection of the bolt into its keeper

1,691,751. INSULATED CONTROL. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Aug. 11, 1924. Serial No. 731,509. 12 Claims. (Cl. 173—318.)



1. An insulator comprising a dielectric member, an electrode, and means providing separate paths of discharge from said electrode, said paths being arranged adjacent one another so that the discharge along one path will be diminished by the influence of the discharge in an adjacent path.

8. An insulator comprising an electrode, a dielectric member connected with said electrode and having the upper surface thereof extending laterally from said electrode and ribs on said surface arranged to form separate over-lapping paths of discharge from said electrode, the lowermost portions of said paths being open to provide drainage.

11. An insulator having a dielectric barrier thereon provided with a drainage passage, said passage being shielded by a charged surface, one end of said passage being open adjacent said surface and having direct connection therewith.

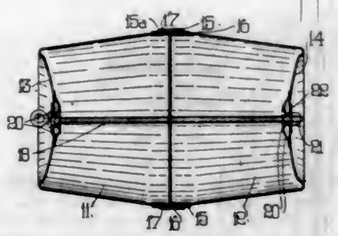
1,691,752. PROCESS FOR MAKING WATERPROOF-PAPER BOARD. EDMUND BACHE, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a Corporation of Minnesota. Filed May 8, 1925. Serial No. 28,836. 8 Claims. (Cl. 92—21.)

1. The process of making impervious paper stock which consists in preparing a quantity of bitumen emulsion in which the emulsoid particles carry an electro-negative

charge, preparing paper pulp carrying an electro-positive charge on the fibres and then intimately mixing the so-prepared emulsion and pulp to uniformly distribute the bitumen upon the surfaces of the paper fibres.

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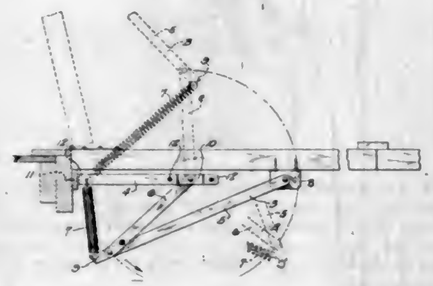
1,691,753. BARREL, DRUM, CASK, OR THE LIKE. JOSEPH EDWARD BLINCOW, Wolverhampton, England. Filed Oct. 14, 1926. Serial No. 141,569, and in Great Britain Oct. 14, 1925. 1 Claim. (Cl. 220—5.)



A container comprising in combination a pair of sections, a flat cylindrical metallic ring on one section, a second flat cylindrical metallic ring of slightly smaller diameter, on the other section, a hollow bolt having a continuous unperforated wall and passing longitudinally through the container and adapted to pass steam or heated fluid through said container without coming in contact with the contents of the container and a nut engaging with said bolt and situated at one end of the container and externally of this in order to obtain a fluid-tight joint between the two sections.

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1,691,754. GARAGE-DOOR HOLDER. EMIL A. BUSACKER, Milwaukee, Wis. Filed Aug. 25, 1926. Serial No. 131,436. 4 Claims. (Cl. 16—80.)



1. The combination of a door frame, a door pivoted thereto, and a door holder comprising a stationary arm fixed to said door frame, an intermediate movable arm pivoted at one end to said stationary arm, a movable door operated arm pivoted at one end to the intermediate movable arm, and at the other end to the door, a yielding member between the movable door operated arm and the stationary arm for normally holding the door yieldingly and releasably in either a closed or an open position.

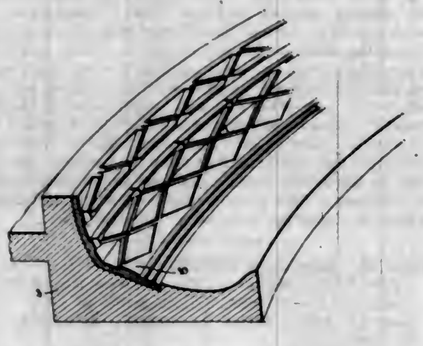
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1,691,755. DENTAL PLATE AND PROCESS FOR PLATING SAME. HENRY F. BUTTNER, Kellogg, Idaho. Filed July 5, 1927. Serial No. 203,690. 1 Claim. (Cl. 91—68.3.)

The process of coating a surface of vulcanized rubber with metal which comprises first subjecting the surface to the combined action of an ammoniacal silver nitrate solution and an aqueous solution containing sugar, alcohol and a small proportion of nitric acid, and thereafter subjecting the so treated surface to the combined action of a silver nitrate solution and gallic acid.

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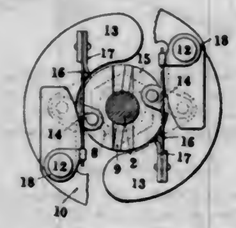
1,691,756. MOLD AND METHOD OF MAKING SAME. WALLACE H. CAMPBELL, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Sept. 10, 1927. Serial No. 218,807. 6 Claims. (Cl. 18—47.)



1. The method of making a tire mold which includes supporting a tire in a metallic mold blank in spaced relation thereto, packing the intervening space with a plastic substance containing casein and subjecting the whole to heat and pressure to harden the plastic substance.

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1,691,757. IGNITION-CONTROL MECHANISM. BURNS DICK, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Oct. 22, 1923. Serial No. 669,907. 4 Claims. (Cl. 264—16.)

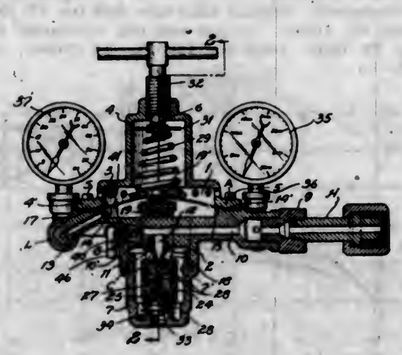


1. In a centrifugal governing device for the ignition means of an internal combustion engine, the combination of a pivotally mounted weight, a resilient member having one end fixed to the free end of the weight to be nonrotatable with respect thereto, and means forming a curved stop engaged by the spring, said stop being so positioned relative to the spring that the point of contact between the spring and stop moves toward the fixed end of the spring as the weight travels outward under the influence of centrifugal force.

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1,691,758. REDUCING VALVE. ARTHUR J. FAUSEK and IRWING F. FAUSEK, St. Louis, Mo. Filed June 24, 1926. Serial No. 118,190. 8 Claims. (Cl. 50—23.)

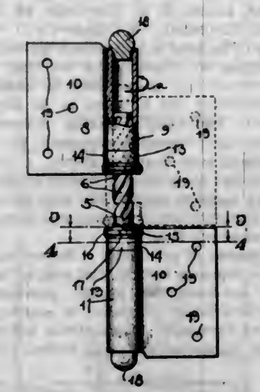
1. A reducing valve comprising a housing having inlet and discharge passagewnys, a diaphragm arranged within said housing, a closure member adapted to close communication between said inlet and discharge passageways, and a loose connection between said diaphragm and said closure member, said loose connection comprising an element extended from said closure member and a bolt having an approximately spherical portion extended through apertures in said elements, said spherical portion of said bolt being located



within the aperture in one of said elements and being adapted to permit said element to move universally with respect to the associated element.

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1,691,759. GRAVITATING HINGE. ERNEST FISCHER, Salem, Oreg. Filed July 31, 1926. Serial No. 126,327. 5 Claims. (Cl. 16—153.)



2. A gravitating hinge comprising a vertical pintle having a spiral groove in one end portion thereof, a hinge leaf having a rigid barrel in which the other end portion of the pintle is mounted, a second hinge leaf having a rigid barrel horizontally rotatable and vertically slidable on the first named end portion of the pintle, said barrel of the second leaf having a transverse opening, a bearing ball loosely arranged in said transverse opening and engaged in the spiral groove of the pintle, and means associated with said barrel of the second leaf to removably hold the bearing ball in place, an end portion of the second leaf being separated from the adjacent end portion of the barrel thereof by a vertical slot, and said bearing ball holding means comprising a sleeve removably slidably fitted on said adjacent end portion of the barrel over the bearing ball.

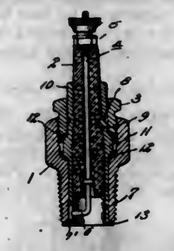
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1,691,760. SPARK PLUG. FREDERICK L. FOX, Washington, D. C. Filed Aug. 12, 1922. Serial No. 581,529. 16 Claims. (Cl. 123—169.)

3. A spark plug of the class described comprising a shell having a part of its lower wall forming the ground electrode, an insulated body in the shell, an electrode carried



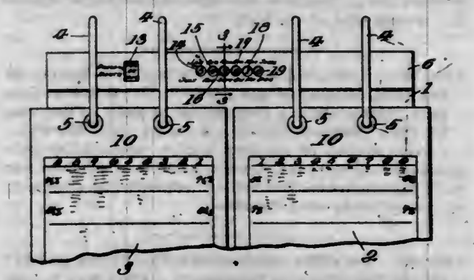
thereby, and a covering member for the wall of the shell having an opening for exposing a portion of the wall



adjacent the main electrode and means for moving the said member with the insulated body to bring the opening over a new portion of the wall.

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1,691,761. DEVICE FOR COMPUTING INTEREST. THEODORE B. HARPER, Hartford, Conn., assignor to The Harper Manufacturing Co., Inc., Hartford, Conn., a Corporation of Connecticut. Filed Apr. 24, 1926. Serial No. 104,465. 2 Claims. (Cl. 235—61.)



1. A device for computing interest comprising a series of day cards, each card representing a stated day in the month and having indicated thereon the interest on a unit amount and multiples thereof, at various given rates, for the period of days in the month preceding the stated date, and also for each added month from maturity, and means associated with any selected card for indicating a line on the day card opposite a given rate containing the calculated interest on a unit amount or multiples thereof from the date of maturity.

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1,691,762. RANGE CONSTRUCTION. SHERMAN HARTER, Mansfield, Ohio, assignor to New Method Stove Company, Mansfield, Ohio. Filed Sept. 2, 1927. Serial No. 217,179. 2 Claims. (Cl. 126—304.)

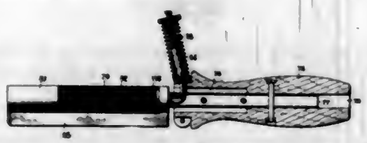


1. In a range construction, a base band having a corner, two threaded studs integral with said band and projecting inwardly therefrom at opposite sides of said corner, said studs being disposed at right angels to each other, a leg having an upper end fitting snugly in said corner and formed with horizontally elongated slots through the outer

remote ends of which said studs project, the shortest distance between said slots being substantially the same as the shortest distance between said studs, permitting easy disassembling and assembly of leg and band regardless of the integral connection between band and studs, and nuts threaded on said studs and bearing against the inner side of the leg.

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1,691,763. ELECTRICAL CUTTER FOR CIRCULAR-MANDREL TUBES. EDWARD C. KASTNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 29, 1926. Serial No. 157,690. 12 Claims. (Cl. 18—2.)



1. A cutting tool provided with a metallic blade of relatively low electrical conductivity, terminals associated therewith adapted to direct an electrical current therethrough and means adapted to confine the flow of energy between the terminals to the region immediately adjacent the cutting edge of the blade.

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1,691,764. GAS-CELL FABRIC. WILLIAM J. KELLY, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 23, 1925. Serial No. 39,151. 2 Claims. (Cl. 91—98.)

2. The method of treating balloon fabric which comprises coating the fabric with a solution of cellulose xanthate containing acidified sodium sulphate and re-generating the cellulose upon the fabric.

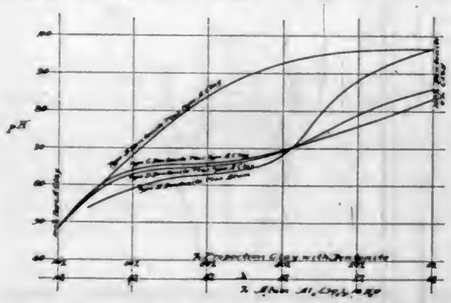
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1,691,765. PROCESS OF MAKING EMULSION PAINTS. LESTER KIRSCHBRAUN, Chicago, Ill. Filed May 7, 1925. Serial No. 28,736. 5 Claims. (Cl. 134—1.)

1. A process of making an aqueous emulsion paint which comprises dispersing a paint base in an aqueous medium by means of a finely divided pigment in an aqueous paste form adjusted to a predetermined hydrogen ion concentration, said pigment being of such character as to impart a distinct color to the final product.

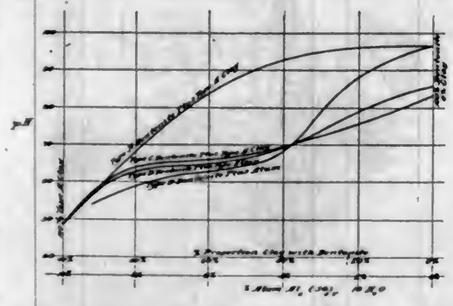
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1,691,766. PROCESS OF PRODUCING EMULSIONS OR DISPERSIONS. LESTER KIRSCHBRAUN, Chicago, Ill., and HAROLD L. LEVIN, Passaic, N. J.; said Levin assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 17, 1925. Serial No. 76,012. 10 Claims. (Cl. 134—1.)



1. In the process of producing a dispersion of a pitchy substance in an aqueous vehicle, the step of adjusting the hydrogen ion concentration of the system after dispersion to a predetermined pH value.

1,691,767. PROCESS OF PRODUCING EMULSIONS OR DISPERSIONS. LESTER KIRSCHBRAUN, Chicago, Ill., and HAROLD L. LEVIN, Passaic, N. J., assignors to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Dec. 17, 1925, Serial No. 76,012. Divided and this application filed Oct. 12, 1926. Serial No. 141,138. 16 Claims. (Cl. 134—1.)



1. In the process of producing a dispersion of a pitch-like substance in an aqueous vehicle, the step of maintaining the hydrogen ion concentration of the aqueous dispersion means at a predetermined pH value.

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1,691,768. PROCESS OF PRODUCING EMULSIONS OR DISPERSIONS AND PRODUCT THEREOF. LESTER KIRSCHBRAUN, Leonia, N. J. Filed Mar. 16, 1928. Serial No. 262,320. 22 Claims. (Cl. 134—1.)

1. A process of forming a bituminous type emulsion comprising combining a plurality of coacting emulsifying agents in predetermined proportions in accordance with the characteristics of the bitumen to be dispersed, said co-acting agents individually having different emulsive characteristics, and dispersing bitumen in an aqueous medium containing said co-acting agents.

7. In the process of producing a dispersion of a pitchy substance in an aqueous vehicle, the step of adjusting the hydrogen ion concentration of the aqueous dispersion means to a predetermined pH value.

15. In the process of producing a dispersion of a pitchy substance in an aqueous vehicle, the step of adjusting the hydrogen ion concentration of the aqueous dispersion means to a predetermined pH value, by combining a second dispersing agent therewith, in quantities sufficient to produce a modified dispersion means of desired pH value.

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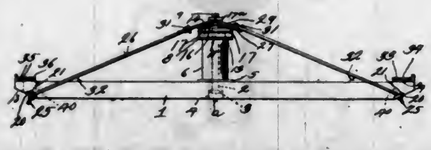
1,691,769. ARROW GUN. ALFRED P. LARSON, Jamestown, N. Y. Filed Mar. 8, 1926. Serial No. 93,069. 2 Claims. (Cl. 124—14.)



1. An arrow gun having a barrel, a guide at the top of said barrel to receive a projectile, and having horizontal notches therein, said gun being provided with a vertical slot which extends into said guide in front of said notches, a looped extensible cord fixed to the outer end of said barrel and adapted to be put under tension with the loop inserted in said notches, trigger mechanism in said slot and including a hammer having a rearwardly inclined tip, which enters said guide in front of said notches, whereby the operation of said mechanism retracts said hammer so that the tip thereof draws said cord out of said notches and allows it to return to the outer end of the barrel, striking in its travel the butt of a projectile in said guide and driving it forwardly from said gun.



1,691,770. WALKING BEAM. CHARLES L. LONSINGER, Walhonding, Ohio. Filed May 4, 1927. Serial No. 188,741. 5 Claims. (Cl. 74—5.)



2. The combination with a flexible walking beam having an upwardly extending support, a yieldable crown plate on said support, tie rods extending over said crown plate and inclining downwardly and outwardly and anchored to the beam adjacent its ends and members secured to the upper side of the beam and extending beyond the opposite sides of the beam in engagement with the undersides of the tie rods.

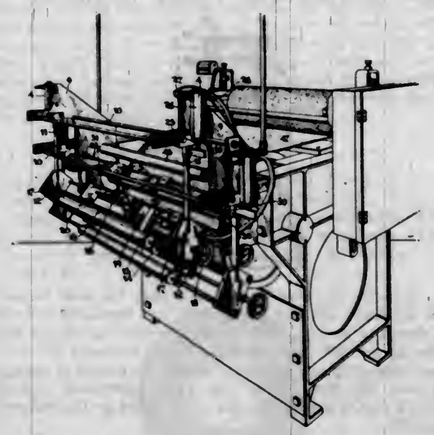
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1,691,771. PAINT AND VARNISH REMOVER CONTAINING AN ALKALI METAL BENZOATE AS A THICKENING AGENT. BORIS N. LOUGOVOY, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Feb. 25, 1926. Serial No. 90,618. 6 Claims. (Cl. 87—5.)

1. A paint and varnish remover comprising alcohol, acetone and sodium benzoate, the latter being partly in a precipitated condition, and said remover being substantially free from substances affecting the stability of the benzoate, and the benzoate being present in amount sufficient to give a substantial thickening effect.

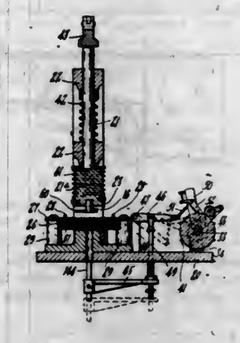
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1,691,772. ALIGNING DEVICE. ELOY F. MAAS, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 23, 1926. Serial No. 32,433. 7 Claims. (Cl. 271—26.)



1. A machine for disposing a plurality of fabric sheets in superposed alignment including a frame, a plurality of guide members, movably mounted on the frame, a plurality of valves having arm members operated by frictional contact with the edges of the fabric, and a pair of pistons controlled by the valves for actuating the guide members.

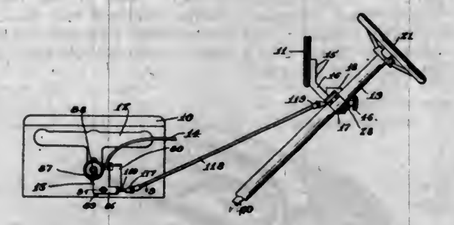
1,691,773. MACHINE FOR PATCHING SHIPPING TAGS, ETC. LEONARD A. MACLEAN, Reading, Mass. Filed Oct. 24, 1927. Serial No. 228,154. 1 Claim. (Cl. 93—92.)



A patching machine comprising in combination, a pair of punching dies, one fixed and the other movable, adapted to cut a hole in a body of sheet material, a reciprocating plunger guided in a predetermined path and carrying the movable die, said fixed die and plunger having opposed pressing faces, a body-locating pocket between the dies, strip guiding means beside the pocket including an upper guide located at one side of the pocket and adapted to guide an upper patch strip and a lower guide located at the opposite side of the pocket and adapted to guide a lower patch strip, a feed member for engaging flexible patch strips, and operating mechanism including means for reciprocating the plunger, and means for moving the feed member step by step, in timed relation with the movements of the plunger, to advance the patch strips step by step in the guiding means and cause registration of a patch in each strip with the punching dies, the arrangement being such that when the patch strips are engaged with the feed means and inserted in the guiding means and a body is inserted in the pocket said mechanism causes the punching of the body by the dies, the separation of a patch from each patch strip and pressure of the separated patches against the body by the pressing faces, means being provided for causing the separated patches to adhere to the body.

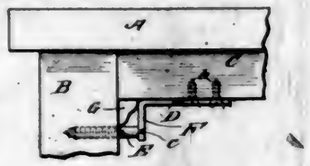
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1,691,774. SAFETY LOCKING DEVICE FOR AUTOMOBILES. CARL A. MATSON, Lynnfield, Mass. Filed May 12, 1927. Serial No. 190,755. 3 Claims. (Cl. 70—127.)



1. In a device of the kind described, the combination of an enclosing casing, a permutation device, including a shaft extending through said casing mounted on and within said box, an ingnition circuit having terminals located within and sealed in said casing, a steering rod, a locking device therefor sealed within said casing, a carburetor valve, controlling means therefor connected to and operated by said shaft, said permutation device associated with said shaft and simultaneously controlling the steering rod locking means, the ignition circuit, and said carburetor valve.

1,691,775. DEVICE FOR SECURING TOGETHER PIECES OF MATERIAL. JULIA B. MATTINGLY, Washington, D. C. Filed Oct. 15, 1924. Serial No. 743,761. 2 Claims. (Cl. 85—41.)



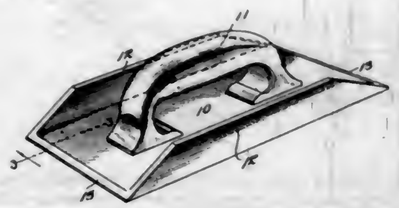
2. A bracket of the character described comprising a flat body portion having openings therein for the reception of securing means, and having at one end the laterally turned portion extending at right angles thereto and provided with a kerf on its outer faces, and a screw threaded shank carried by the opposite face and extending parallel with the body portion.

1,691,776. SPIRIT LEVEL. JOHN MAYES, Port Austin, Mich., assignor to Mayes Brothers Tool Manufacturing Company, Port Austin, Mich., a Corporation of Michigan. Filed Nov. 6, 1926. Serial No. 146,775. 1 Claim. (Cl. 33—211.)



A spirit level comprising a relatively thin hollow stock formed of a single piece of material and having an integral annular oval shaped wall at its center and a similar wall adjacent each end, each of which oval shaped walls defines an opening between the sides of the level, inwardly projecting opposed vial holding lugs formed integrally in each side of the oval shaped walls at the ends of the stock, inwardly projecting opposed longitudinally disposed vial holding lugs formed at the ends of the central oval shaped wall, a centrally disposed relatively thin strengthening web between the central oval shaped wall and the oval shaped wall adjacent each end of the stock and connecting the same, and an inwardly extending strengthening web between the oval shaped walls adjacent the ends of the stock and the adjacent end of the stock defining a substantially rectangular handle opening.

1,691,777. PLASTERER'S FLOAT. JOHN MAYES, Port Austin, Mich., assignor to Mayes Brothers Tool Manufacturing Company, Port Austin, Mich., a Corporation of Michigan. Filed Feb. 3, 1928. Serial No. 251,652. 2 Claims. (Cl. 72—136.)



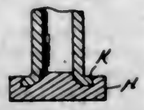
1. A device of the class described comprising a flat elongated body formed of relatively thin material having its side edges upturned, said elongated body having its ends beveled to form thin cutting edges, and a handle fastened between said upturned side edges intermediate the ends of the body, substantially as set forth.

1,691,778. METHOD OF FORMING VALVE TAPPETS. CHARLES B. MCDONALD, Detroit, Mich., assignor to Wilcox Products Corporation, Detroit, Mich., a Corporation of Michigan. Filed Apr. 18, 1927. Serial No. 184,705. 6 Claims. (Cl. 219—10.)



1. The method of mechanically uniting metal members which consists in first forming one of said members with spaced end portions of wedge shaped cross section, the axes of said wedges being inclined to each other, in contacting said wedge portions with the complementary member, passing electrical current therethrough to locally heat and soften the adjacent metal and in pressing the members together to force said wedge portions into interlocking engagement with the complementary member.

1,691,779. VALVE TAPPET AND METHOD OF FORMING THE SAME. CHARLES B. MCDONALD, Detroit, Mich., assignor to Wilcox Products Corporation, Detroit, Mich., a Corporation of Michigan. Filed Mar. 19, 1928. Serial No. 262,933. 5 Claims. (Cl. 219—10.)



1. A tappet comprising a preformed disk head of white cast iron and a hollow or tubular stem having a laterally enlarged head portion welded to said disk and forming a reinforcement therefor.

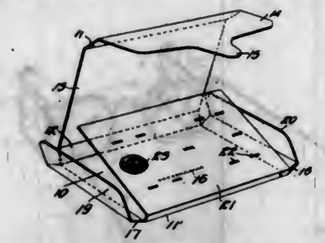
1,691,780. CLOSURE FOR CONTAINERS. ANTHONY FRANCIS MCDONNELL, Dunmore, Pa., assignor of one-third to William Aloysious Quinn, Scranton, Pa. Filed Apr. 17, 1928. Serial No. 270,750. 7 Claims. (Cl. 215—39)



1. A bottle or other container having its neck formed with shoulders inclined peripherally and upwardly toward the mouth to be engaged by inward projections on the rim of the cap and lift the same when turned and with parts inclined outwardly and upwardly toward the mouth to engage and lock the rim of the cap when contracted around the neck and to expand the rim when lifted by the inclined shoulders.

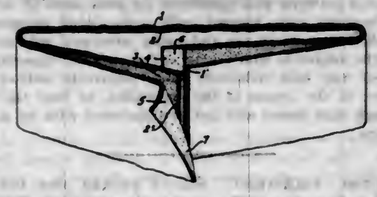
1,691,781. PACKAGE. NATHAN S. MEYER, New York, N. Y. Filed Mar. 13, 1926. Serial No. 94,611. 1 Claim. (Cl. 206—44.)

A container and display box for buttons comprising a strip of card board or the like foldable to form a closed box-like container having integral top, bottom, side and end walls with an integral spacer strip and a perforated button supporting shelf held by said strip between the top and bottom of the container, the bottom being slitted and the top having a flap adapted to be folded under the bottom with



a tongue engaging in said slit, the shelf being adapted also to rest against the flap when in open position and to be inclined rearwardly to serve as a display device for the buttons, substantially as set forth.

1,691,782. BAG. PHILIP E. MORRILL and ROBERT E. PIERCE, St. Louis, Mo., assignors to Bemis Bros. Bag Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 17, 1925. Serial No. 56,843. 1 Claim. (Cl. 229—53.)



A new article of manufacture comprising a sheet of material shaped to produce a bag having a seam where the edges of said sheet of material are joined together, said sheet of material comprising a plurality of sheets of material having a layer of adhesive water-proofing material therebetween whereby said sheets of material are secured together, the edge portion of one of said sheets being extended beyond the adjacent edge of the associated sheet and beyond the adjacent edge of the layer of waterproofing material, and a layer of paste whereby said extended portion of said sheet is secured in place to form said seam, said paste and said waterproofing material being arranged adjacent to the same face of said sheet of material having the extended portion.

1,691,783. INSULATING STRUCTURE. OLIVER F. MOTTWEILER and DANIEL C. DRILL, Alexandria, Ind., assignors to General Insulating and Manufacturing Company, Alexandria, Ind., a Corporation of Indiana. Filed Nov. 25, 1927. Serial No. 235,552. 9 Claims. (Cl. 154—44.)

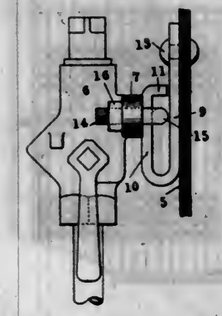


1. An insulating structure adapted for use in circular form comprising a body portion formed of insulating material, a layer of material arranged in contact with one surface of said body portion, a plurality of rods arranged in spaced relation in contact with the opposite surface of said body portion, and anchor means extending through said body portion and connecting said layer of material and said rods together, said rods being movable when the structure is arranged in circular form to points removed inwardly from the inner face of said body portion.



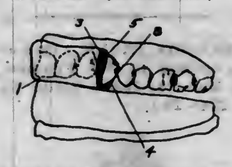


1,691,784. RETAINING-VALVE HOLDER. FRANK H. PIETZSCH and STERLING H. CAMPBELL, St. Louis, Mo., assignors to Western Railway Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 3, 1927. Serial No. 223,828. 4 Claims. (Cl. 303—1.)



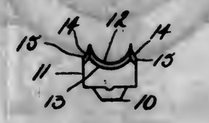
1. In a device of the class described, the combination with a plate adapted to be secured to a railway car, said plate having a portion bent over to form an integral loop and an end bent down to close the loop, of a U-bolt adapted to be inserted through the loop, and nuts engaging the U-bolt, the parts being so proportioned and related that said nuts will prevent the bolt from passing out of the loop.

1,691,785. DENTAL MASSAGE DEVICE. ORRIN REMENSNYDER, Saginaw, Mich. Filed Sept. 14, 1925. Serial No. 56,333. 4 Claims. (Cl. 128—67.)



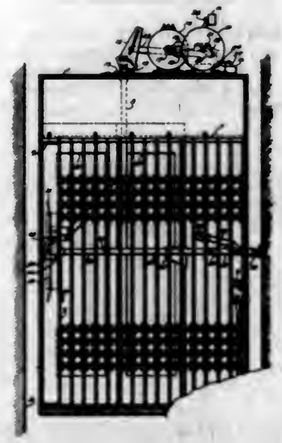
1. A gum-massaging device comprising a compressible elastic base pad member and a wall member secured to said pad member, the rim of said wall member adapted to extend up to and contact with the free margin of the gum tissue and to exert variable pressure against said free margin when a tooth indents and compresses a part of said base pad member by biting upon said base pad member.

1,691,786. DENTAL INSTRUMENT. ROBERT TRUMAN ROTH, Philadelphia, Pa. Filed Oct. 25, 1927. Serial No. 228,563. 1 Claim. (Cl. 32—10.)



A dental instrument comprising a handle and a longitudinally curved blade having a main concaved cutting edge in its forward end, and contiguous supplementary concaved cutting edges in its sides.

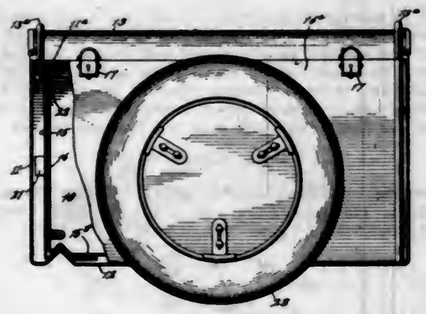
1,691,787. DOOR-CONTROL MEANS FOR ELEVATORS. HAROLD W. SHONNARD, Montclair, N. J., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Filed Dec. 15, 1927. Serial No. 240,305. 8 Claims. (Cl. 187—52.)



5. In combination with an elevator gate and a landing door, a member projecting outwardly from said gate and movable with said gate, means on the elevator for opening said gate, and means for moving said landing door in unison with said gate comprising a lever pivotally connected to said landing door and a member attached to said lever and adapted to serve as the driving connection between the outwardly projecting member on the elevator and said pivotally connected lever on the landing door, said outwardly projecting member operating to swing said lever in response to the operation of said gate opening means.

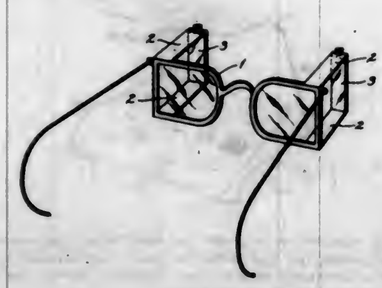
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1,691,788. EXTENSION TRUNK. PHILMORE F. SPERY, Chicago, Ill., assignor to Will Freeman, Des Moines, Iowa. Filed Mar. 26, 1927. Serial No. 178,744. 7 Claims. (Cl. 224—29.)



1. An extensible auto trunk comprising a main section, a hinged cover therefor, a section extensible from the main section, and a cover for the extensible section hinged from the free end of the main cover and foldable within the latter.

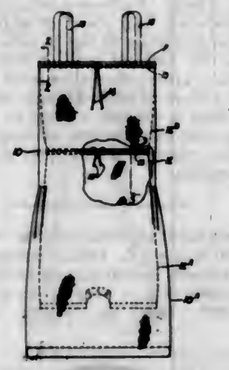
1,691,789. SPECTACLES. CHARLES HENRY ALBERT TEIBER, St. Louis, Mo. Filed June 24, 1926. Serial No. 118,228. 2 Claims. (Cl. 88—41.)



1. Spectacles comprising a frame supporting a pair of lenses, pairs of spaced arms located at the opposite ends of said frame and extended forwardly thereform, said pairs of spaced arms comprising each an arm fixed to said frame at the upper portion thereof and an arm fixed to said frame at the lower portion thereof, and reflectors interposed between and supported by said pairs of arms at the forward ends thereof, said arms being permanently attached to said frame and being arranged substantially at right angles to said frame at the extreme opposite ends thereof and said reflectors being relatively narrow with respect to the lenses of the spectacles, so that the vision through said lenses will not be interfered with by said reflectors.

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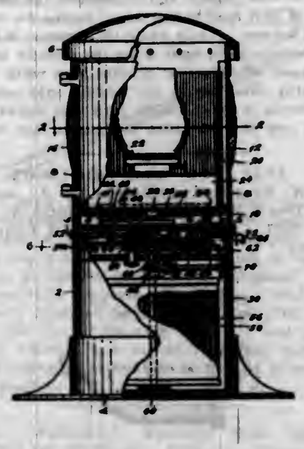
1,691,790. GARMENT. SYLVIA VOLKER, Oak Park, Ill. Filed Jan. 31, 1927. Serial No. 164,699. 2 Claims. (Cl. 2—73.)



1. A unitary fabric garment comprising an outer garment, means on the upper edge of said outer garment for drawing in said upper edge for close fit on the wearer, a single pair of shoulder straps attached to the upper end of said outer garment, said inner garment being secured to said upper edge of said outer garment and the lower portion of said inner garment being formed into bloomers, a laterally extending pocket on said inner garment above the waist line and below the bust thereof, said outer garment extending downwardly below the lower end of said bloomer portion, and a ribbon in said pocket for drawing in said inner garment below the bust of the wearer.



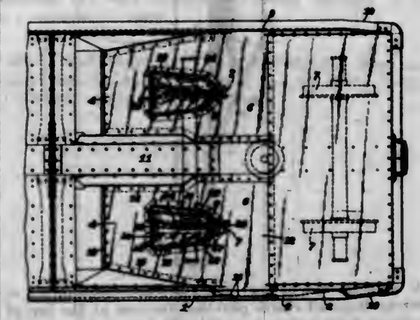
1,691,791. AUTOMATIC TRAFFIC SIGNAL. JOHN T. WAYLAND and TOM D. JONES, Kansas City, Mo. Filed Nov. 14, 1927. Serial No. 233,171. 6 Claims. (Cl. 116—63.)



1. In a device of the character described, a corrugated tubular signal element, a table upon which said signal element is mounted, and mechanism for rotating said table step by step.

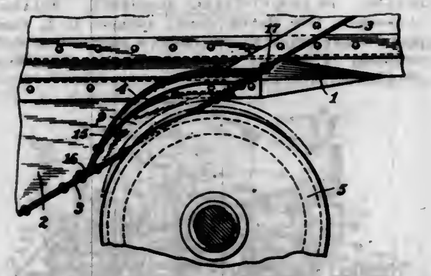
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1,691,792. SLOPE SHEET FOR FREIGHT CARS. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 13, 1928. Serial No. 261,265. 9 Claims. (Cl. 105—247.)



1. A slope sheet having a crown formed therein, the side walls of the crown being vertical, and the top surface of the crown sloping towards the side walls, the front edge of the crown having sloping top walls and the rear end of the crown having its top wall horizontal throughout its width.

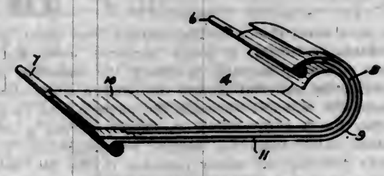
1,691,793. SLOPE SHEET AND METHOD OF MAKING THE SAME. WILLIAM E. WINE, Toledo, Ohio. Filed Mar. 26, 1928. Serial No. 264,605. 14 Claims. (Cl. 105—247.)



1. A slope sheet having an opening therein, the walls about the opening bent to form side walls and flanges to support a cover, and a cover secured to said flanges.

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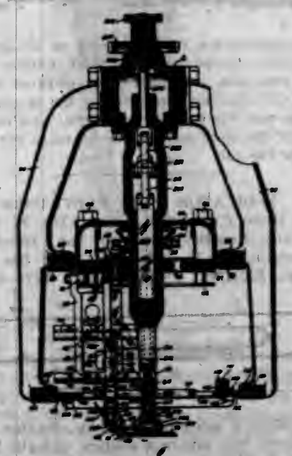
1,691,794. STORAGE BATTERY. JOSEPH LESTER WOODBRIDGE, Philadelphia, Pa. Filed Sept. 30, 1925. Serial No. 59,467. 4 Claims. (Cl. 136—69.)



1. An element for a storage battery cell comprising two electrodes of sheet lead and thin wood veneer spacing said electrodes, and the electrodes and veneer rolled into cylindrical form with the grain of the veneer substantially parallel with the axis of the cylinder.

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1,691,795. BLANK-CUTTING MACHINE. ROLAND G. ANDERSON, Morris Cove, Conn., assignor, by mesne assignments, to Wellman Company, Medford, Mass., a Corporation of Maine. Filed Mar. 6, 1923. Serial No. 623,141. 45 Claims. (Cl. 12—24.)

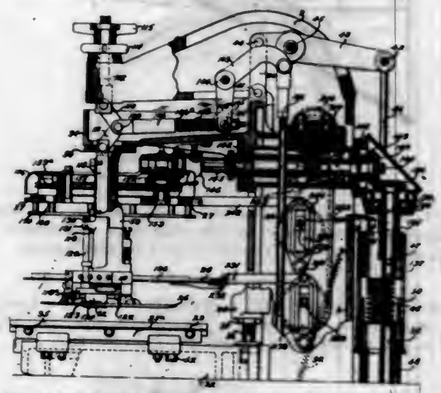


45. In a machine for cutting blanks of sheet rubber, in combination, means for cutting a blank with an under-

bevel or with an over-bevel without reversing the stock, and means for retracting the knife when using an undercut bevel to prevent injury to the fully cut soles.

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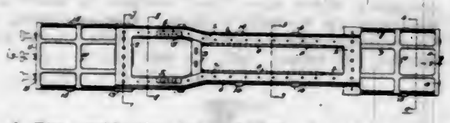
1,691,796. BLANK-CUTTING MACHINE. ROLAND G. ANDERSON, New Haven, Conn., assignor to L. Candee and Company, New Haven, Coun., a Corporation of Connecticut. Filed Jan. 7, 1927. Serial No. 159,577. 20 Claims. (Cl. 12—25.)



20. In a machine for cutting blanks from sheet, plastic and elastic material, a plane surfaced work bed and pattern relatively movable to clamp the material, means for cutting the material around the pattern while clamped, a female die movable through the pattern and cooperating with the bed to emboss the blank during a cutting operation, and actuating means for imparting a preliminary yielding but heavy pressure to the die, said actuating means being retractable prior to the completion of a cutting operation, whereby the pattern acts as a stripper for the die.

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1,691,797. LOCOMOTIVE CAB DECK. CONRAD C. C. BURKHARDT and EDWARD O. ELLIOTT, Philadelphia, Pa. Filed Nov. 10, 1927. Serial No. 232,391. 7 Claims. (Cl. 105—172.)



6. The combination in a cab deck of an internal combustion-electric locomotive, said deck having two transsoms and two sills, said sills being elevated between the transoms and forming supports for the internal combustion engine and the electric generator; and extensions at each end of the deck beyond the transom for supporting the ends of the cab.

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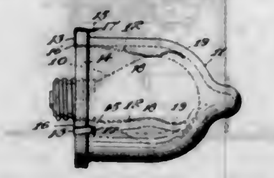
1,691,798. INDICATOR FOR ELEVATORS OR THE LIKE. HUGO F. CYPSER, Jersey City, N. J., assignor to Elevator Supplies Company, Inc., Hoboken, N. J., a Corporation of New Jersey. Filed Dec. 16, 1926. Serial No. 155,238. 2 Claims. (Cl. 177—336.)



1. An indicator mechanism for an elevator comprising a fixed screen, two separate sources of light behind said screen, a movable pointer positioned between said screen and said sources of light so as to cast a shadow on said screen, means for confining the light rays from one of said sources to the portion of said fixed screen lying on one side of the shadow cast by said pointer, thereby forming an illuminated area terminating at one edge of said shadow, means for confining the light rays from the other of said sources to the portion of said fixed screen lying on the other side of the shadow cast by said pointer, thereby forming a second illuminated area terminating at the other edge of said shadow and situated in the longitudinal projection of said first named area; means for energizing one of said sources of light while the elevator is ascending and the other source of light while the elevator is descending so that one of said areas remains dark while the other is illuminated; and means for moving said pointer and confining means in synchronism with said elevator, thereby causing one of said areas to expand into the other.

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1,691,799. CLIP FOR ELECTRIC-LIGHT BULBS. HENRY W. FALSTROM, Bloomfield, N. J., assignor to Eastern Tool & Mfg. Company, Bloomfield, N. J. Filed Apr. 6, 1927. Serial No. 181,347. 2 Claims. (Cl. 240—138.)



1. The combination of a cup-shaped globe and an electric light bulb, with a clip having one end to hook over the rim of the globe and with the major portion thereof within the globe and disposed so that it is pressed against the inside of the globe and under a tension when placed over the bulb whereby the globe is detachably secured to the bulb.

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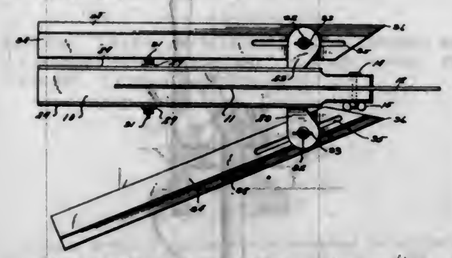
1,691,800. STORAGE BATTERY. BRUCE FORD, Philadelphia, Pa. Filed July 11, 1923. Serial No. 650,757. 2 Claims. (Cl. 16—125.)



1. In a storage battery container the combination of oppositely disposed cleats provided the one at the top of the container wall and the other at the face of the container wall, two relatively movable metallic elements of plate form and arranged in overlapping relation and of which each is provided with a jaw and of which one is rigidly provided with a handle and with a shank for contact with the face of the wall below the recess and of which the other is provided with a foot for hold-down purposes, and screw means interposed between said elements and operative in a plane parallel to the container wall and arranged to move said jaws towards and away from each other.



1,691,801. MULTIPLANE BEVEL SQUARE. GEORGE W. FOTHERGILL, Louise, Tex. Filed June 24, 1926, Serial No. 118,293. Renewed May 1, 1928. 5 Claims. (Cl. 33—90.)



1. In a bevel square, a body, a blade pivotally and slidingly engaging the forward end of the body, the body being formed with a longitudinally extending groove on its side face, a shank slidably mounted in said groove and having a laterally projecting ear disposed in a plane at right angles to the plane of the blade, a blade pivotally and slidably mounted upon said ear, a plate extending over the side face of the body and over said groove and the shank therein, and means extending through said plate and engaging the shank to hold it in any desired adjusted position.

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1,691,802. WADDING DEVICE FOR THE CARTRIDGES OF FOWLING PIECES. CHARLES GABEL, Paris, France, assignor to Société Anonyme Cartoucherie Francaise, Paris, France. Filed Dec. 28, 1926, Serial No. 156,643, and in Belgium Jan. 18, 1926. 2 Claims. (Cl. 102—42.)



1. A wadding device for the cartridges of fowling pieces, comprising a corrugated casing and elastic material in the state of fragments which is disposed within the said casing, and a sheath of lubricating material surrounding the said corrugated casing whereby it is given a cylindrical form.

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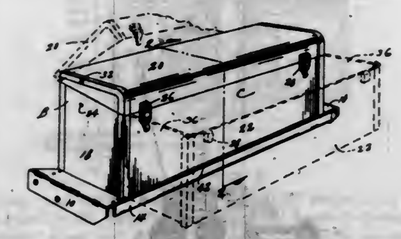
1,691,803. WAINSCOTING CONSTRUCTION. WILLIAM T. GRAY, Ballston Spa, N. Y. Filed Dec. 10, 1927. Serial No. 239,089. 4 Claims. (Cl. 20—4.)



2. In a wainscoting construction, a wainscoting element comprising a board having a tongue formed on one longitudinal edge and a complemental groove formed in the other longitudinal edge thereof, said tongue having outwardly converging front and rear sides respectively of convex and concave form, said tongue being of greater depth than the groove.

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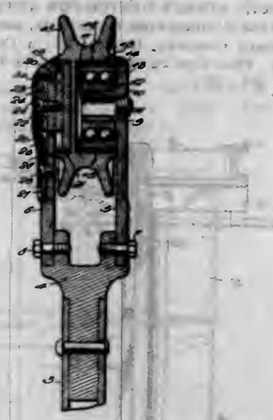
1,691,804. TRUNK AND LUGGAGE CARRIER. BENNIE P. HANSON, Cedar Falls, Iowa, assignor to Edward L. Moore, Waterloo, Iowa. Filed Oct. 17, 1927. Serial No. 226,719. 6 Claims. (Cl. 224—29.)



6. In a trunk of the class described, a fixed trunk section having a hinged lid thereon, a movable trunk section adapted to be moved longitudinally outwardly away from said fixed trunk section, one wall of said movable section serving as the rear wall for the fixed trunk section when in one position and as the rear wall of the movable section when in another position and means for retaining the moving section in its outward position, said means comprising a foldable bottom connecting the bottom of the trunk section to the lower edge of the rear wall of the movable trunk section.

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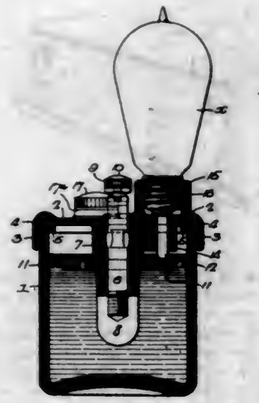
1,691,805. TROLLEY HARP AND WHEEL ASSEMBLY. THOMAS HAULTON, Johnstown, Pa., assignor to Penn Machine Company, Johnstown, Pa., a Corporation of Pennsylvania. Filed Dec. 19, 1927. Serial No. 241,118. 5 Claims. (Cl. 191—59.)



1. A trolley harp having a removable arm and a fixed arm, a trolley wheel between said arms having axially aligned recesses whose outer sides are closed thereby, bearing means in one of said recesses mounting said wheel on said fixed arm, a spring-pressed collector plate in the other of said recesses provided with a non-circular projection on its outer side, said removable arm having a non-circular opening through which said projection passes slidably and

non-rotatably, and a flexible conductor at the outer side of said removable arm secured at one end thereto and secured at its other end to the outer end of said projection.

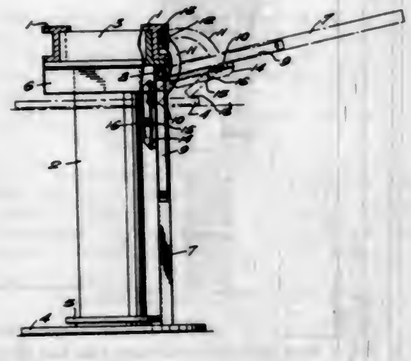
1,691,806. ELECTROLYTIC RECTIFIER. WALTER E. HOLLAND, Philadelphia, Pa., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 13, 1923. Serial No. 612,405. 20 Claims. (Cl. 175—318.)



1. An asymmetric cell including a non-film-forming electrode of iron containing at least 10% silicon.

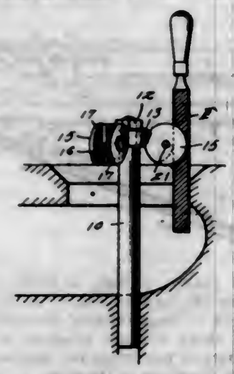
7. An asymmetric cell comprising a container, a body of electrolyte, an electrode mounted in said container adjacent the normal initial surface level of the electrolyte, and a film-forming electrode so mounted in said container that its active portion is entirely below the electrode first named.

1,691,807. SAFETY DEVICE FOR AUTOMOBILE LIFTS. EDWARD E. HOLLISTER, Quincy, Ill., assignor to Hollister-Whitney Company, Quincy, Ill., a Corporation of Illinois. Filed Aug. 24, 1926. Serial No. 131,263. 8 Claims. (Cl. 254—93.)



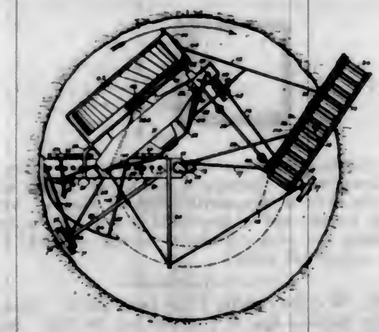
1. In a vertically-movable lift of the class described, a safety device movable automatically during ascent of the lift, into a position to prevent descent of the lift and means held in released condition while the lift is in lowered position, for holding said device in inoperative position.

1,691,808. FILE HOLDER. WALTER M. HOWSER, La Porte, Ind. Filed Aug. 16, 1927. Serial No. 213,324. 4 Claims. (Cl. 29—80.)



1. In a file holder for holding files for rotative treatment of surfaces, a stem having at one end a plurality of radiating arms, the outer end of each arm having a file receiving groove, said arms being split and means for contracting the split ends of the arms to clamp the files engaged therewith.

1,691,809. MACHINE FOR DIGGING PIT SILOS AND CISTERNS. CARL H. HUENEFELD and GEORGE CAMPBELL, Aurora, Nebr., assignors of two-thirds to said Huenefeld and one-third to said Campbell. Filed Feb. 21, 1927. Serial No. 169,936. 11 Claims. (Cl. 37—190.)



1. A digging machine of the class described including a frame mounted to turn about a vertical axis, a tractor wheel in the frame mounted to turn in a circular path about said axis, a digging means trailing said tractor wheel and an elevator trailing said digging means, and tractor wheel radially outward of the axis of rotation of said frame said digging means and elevator being mounted in the frame to turn about the same axis with the tractor wheel.

1,691,810. BANDAGE FASTENER. KARL H. ITZEROTT, Philadelphia, Pa. Filed Mar. 24, 1928. Serial No. 264,401. 2 Claims. (Cl. 24—87.)



1. In a device of the character described, the combination with an elastic trip, of a clasp secured to each end thereof and comprising a body produced from a flat strip



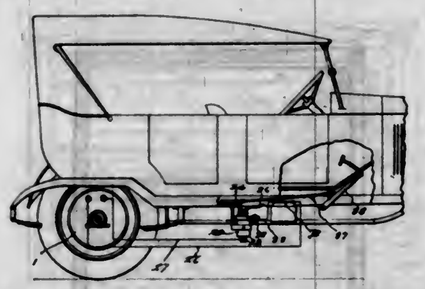
of metal so fashioned as to provide hooks projecting back upon the body from one edge thereof, prongs at right angles thereto projecting from the edge opposite the hooks, and an integral clamping leaf projecting from the central portion of the body and overlying the prongs.

1,691,811. VALVE MECHANISM. ELMER JOHNSON, San Francisco, Calif. Filed Mar. 11, 1927. Serial No. 174,580. 2 Claims. (Cl. 221—60.)



1. In a device of the character described, a receptacle having a neck portion, a ball valve positioned in said neck portion, a rotatable member encircling said neck portion, a cam carried on said ball, and means associated with said rotatable member for engaging said cam for the purpose of rotating said ball when said rotatable member is actuated, ports formed in said rotatable member on said receptacle and adapted to coincide with a passage formed in said ball.

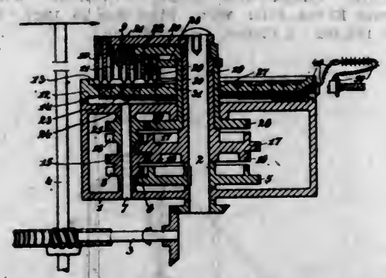
1,691,812. ELECTRIC BRAKE FOR AUTOMOBILES. HAROLD JOHNSON and LENNIE O. AUNE, Windom, Minn. Filed Oct. 26, 1927. Serial No. 228,906. 3 Claims. (Cl. 188—163.)



3. A brake of the class described comprising a pair of shoes for engaging the part to be braked, magnetic means comprising an upper coil and a lower coil and an armature connected with the lower coil and passing into the upper coil, adjustable means for causing the movement of the lower coil to press the shoes against the said part, a circuit for the two coils, a switch in the circuit, manually oeprated means for operating the switch, such means comprising a pedal, a link connecting the pedal to the switch arm and said switch comprising a casing, a plurality of pieces of carbon therein and a switch arm having a part engaging the pieces for pressing them together when the pedal is depressed.

1,691,813. APPARATUS FOR ELECTRICALLY TRANSMITTING SIGNALS INDICATING RESULTS OF OBSERVATION. HANS KARABETZ, Vienna, Austria, assignor to the Firm C. P. Goerz Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz, Opticky Ustav, Bratislava, Czechoslovakia. Filed Dec. 19, 1925, Serial No. 76,401, and in Austria Jan. 19, 1925. 4 Claims. (Cl. 177—337.)

1. In apparatus for electrically transmitting signals indicating results of observations, the combination of a transmitter, comprising a plurality of rotatable contact arms operatively connected by gearings adapted to impart to the following contact arm a unit of movement when the immediately preceding arm makes a plurality of units of movement and stationary contact rings, each consisting of a plurality of contact segments and cooperating with one of the said rotatable contact arms, with a receiver, comprising a plurality of concentric groups of stationary signals, each signal corresponding to one of the contact segments of the transmitter and being directly electrically connected thereto, radial arms one for each of the said groups of signals and means for bringing to coincidence each of the radial arms with the signal of its corresponding



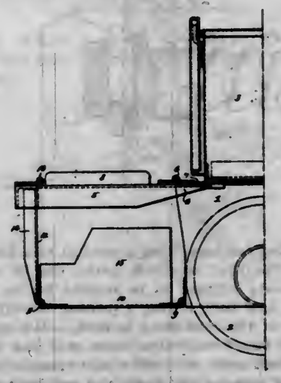
group, and with a source of electricity adapted to supply current to the signaling devices of the receiver through the contact arms and segments of the transmitter so that the attendant of the receiver knows at any time the position of the transmitter, the direction and speed of rotation of the contact arms, the point on which the radial arms of the receiver have to be adjusted and the difference existing between the former indication and the next following.

1,691,814. TOOTHBRUSH CASE. ORAL A. KING, South Norfolk, Va. Filed Feb. 7, 1927. Serial No. 166,446. 1 Claim. (Cl. 15—184.)



The combination with an open-ended cylindrical enclosure for a tooth-brush, of an insertable, hollow plug therefor, one face of said plug being centrally raised and apertured, a ring mounted in said apertures and projecting from said plug, and a brush-securing split tubular socket bodily carried by the cap and projecting in an opposite direction to the ring, said tube being disposed eccentrically of the plug.

1,691,815. MINE LOCOMOTIVE. BENJAMIN K. KIRK, Philadelphia, Pa. Filed Jan. 3, 1928. Serial No. 244,199. 4 Claims. (Cl. 105—50.)

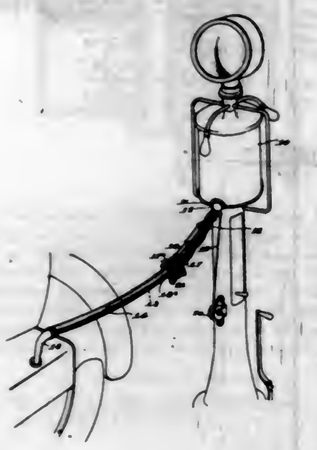


1. The combination in a mine locomotive, of a main frame; a platform pivotally connected to the main frame at one end; and a frame located above the platform and also

pivotally connected to the main frame, the outer end of the platform and the upper frame being pivotally connected together so that the platform can be lowered into position to be occupied by an operator or turned up against the end of the locomotive.

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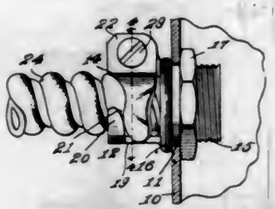
1,691,816. TELESCOPIC HOSE COUPLING. WILLIAM HENRY KLYCE, Flint, Mich. Filed May 25, 1927. Serial No. 194,162. 5 Claims. (Cl. 137—90.)



1. A telescopic hose coupling formed of two sections, one of the sections being telescopically received by the other section, means for supporting said one of the sections, and means for retaining the other section in operative relation with the first mentioned section, said last mentioned means including means for returning the sections to the normal inoperative position after said first mentioned section has been moved outwardly from the second mentioned section.

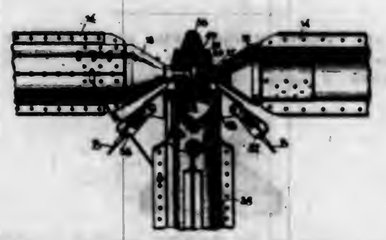
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1,691,817. COUPLING. CHARLES KOSNICK, New York, N. Y. Filed Jan. 25, 1926. Serial No. 83,641. 2 Claims. (Cl. 247—25.)



1. A coupling for connecting a conduit to a junction box comprising a pair of separable parts, one of said parts including a body adapted to be secured in the wall of a junction box, said body having a passage therethrough for the insertion of the conduit to be held, a jaw provided on said body, a finger extending from said jaw and being spaced from said body, said other part constituting a loose jaw positioned between said finger and said body and engaging said finger, and means for holding said parts in co-acting clamping engagement, substantially as and for the purpose specified.

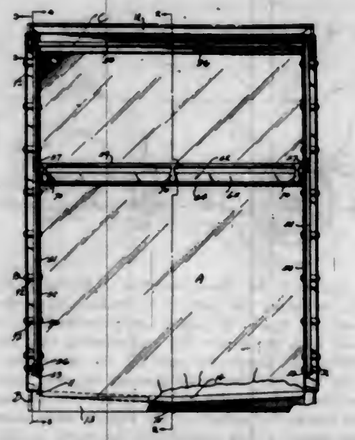
1,691,818. KEEL COLUMN. HERMAN T. KRAFT, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 20, 1924. Serial No. 744,570. 13 Claims. (Cl. 189—1.)



1. A fabricated structure comprising hollow sheet metal columns, a plurality of said columns being symmetrically tapered, sockets for interconnecting the end portions of a plurality of the columns of similar construction and a socket having a universal joint operatively connected thereto for connection to the remainder of the columns.

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1,691,819. WINDOW CLEANER. FREDERICK LANGLEY, Cohoes, N. Y. Filed May 7, 1924. Serial No. 711,682. 3 Claims. (Cl. 15—252.)



1. In a window cleaner, a pair of guide casings for attachment to one side of the pane of a window at each side edge thereof, each having an endless slot, the endless slots of the guide casings being in facing relation, pulleys in said guide casings, endless belts rotatably mounted in said casings about said pulleys, a rod extending transversely from guide casing to guide casing and at the ends thereof extending into the slots of said guide casings and being connected to the endless belts therein, and means supported by said rod for engaging the facing side of the window to scrape against and cleanse the same during rotation of said belt.

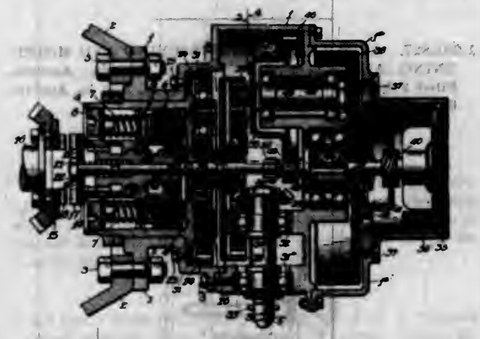
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1,691,820. ENGINE STARTER. RAYMOND P. LANSING, Montclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Jan. 20, 1926. Serial No. 82,394. 37 Claims. (Cl. 290—48.)

1. An engine starter including a drive or transmission having a centrally located driving member mounted for longitudinal movement to engage a member of the engine



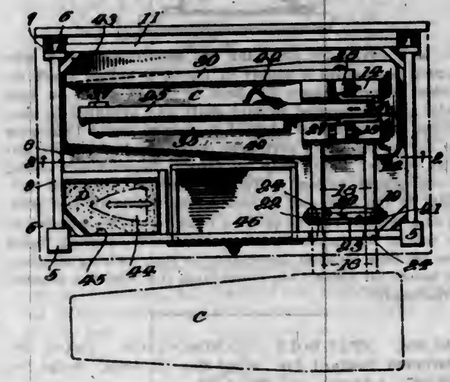
to be started and for rotary movement for cranking such engine member, a rotatable inertia device operatively connected with such drive, and a power means operatively



connected with the inertia device for operating it for the starting operation, said driving member, inertia device and power means having the same axis of rotation.

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1,691,821. COMBINED TABLE AND IRONING BOARD. ADOLPH FREDERICK LIND, Kittanning, Pa. Filed May 14, 1926. Serial No. 109,076. 4 Claims. (Cl. 68—10.)

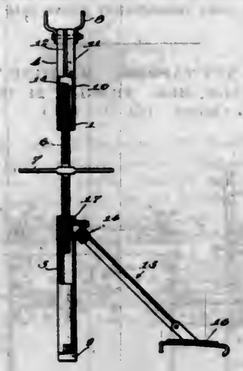


4. The combination with a table having a swinging top and a compartment below the same, of an ironing board pivotally mounted within said compartment and adapted to swing upwardly and outwardly to a position beyond the front of said table, a leg pivotally connected to said board and provided with means at its upper end for locking it in vertical position when in use, a second leg movably connected to said board and adapted to be moved to an extended position at an incline to said board when in use, means at the upper end of said second leg for locking it in said inclined extended position, a brace leg having pivotal connection with the board at one end and a sliding and locking connection with the second leg at a point medially of its ends, and said brace leg and said second leg arranged approximately at right angles to one another when in their extended positions.

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1,691,822. PEDAL HOLDER. LOUIS W. LINDMEYER, Butte, Mont. Filed Oct. 17, 1925. Serial No. 63,154. 2 Claims. (Cl. 74—81.)

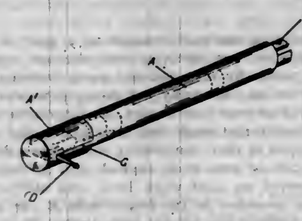
1. A device of the character described comprising a pair of tubes each having an internally threaded bushing, a turnable right and left threaded screw engaging the bushing and disposing the tubes in axial alignment for use between a pedal and the steering wheel of an angularly disposed steering column, a socket forming part of one of the tubes and extending therefrom laterally, and an extension



fitted in the socket being disposed at an angle to the axis of said tubes to reach a pedal and the steering wheel of a vertically disposed steering column.

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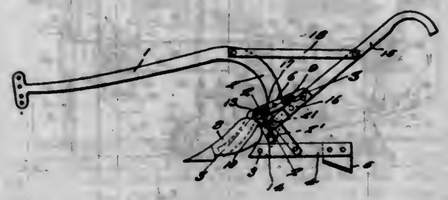
1,691,823. COVER FOR DENTAL DRILL HANDPIECES. WILLIAM OGILVIE, Edgecliff, Sydney, New South Wales, Australia. Filed Jan. 13, 1927, Serial No. 160,968, and in Australia Mar. 23, 1926. 1 Claim. (Cl. 32—10.)



A cover for a dental drill handpiece consisting of two mutually telescoping tubular parts of suitable aseptic material, one of said parts being open at both ends and the othere closed at one end and formed with an aperture registering with the drill socket in the handpiece when the parts are adjusted thereon.

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1,691,824. PLOW. JAMES S. PARKER, Corsicana, Tex. Filed June 10, 1925. Serial No. 36,226. 1 Claim. (Cl. 97—109.)

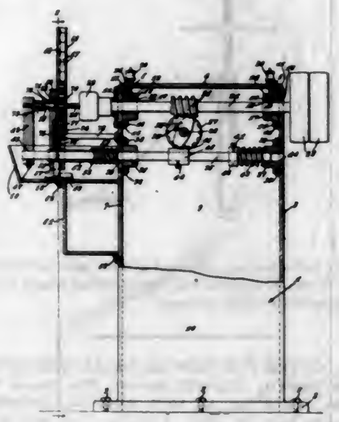


In combination, a plow beam having a downwardly extending standard provided with spaced apertures, a furrow bar projecting rearwardly from the lower end of the standard and supporting a blade, a stock comprising a substantially U-shaped member straddling the standard and having a plurality of openings, bolts passed through said openings and contacting with the opposite edges of the

standard to hold the parts associated, a substantially U-shaped brace having its closed end flattened and received between the spaced parallel arms of the U-shaped member of the stock and pivotally secured thereto, said brace having its arms straddling the standard and pivotally connected thereto at a point immediately above said furrow bar.

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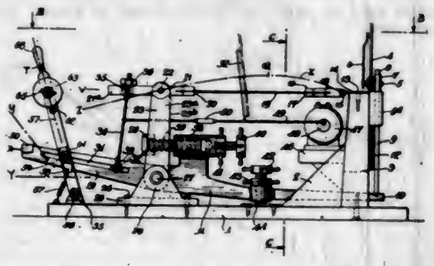
1,691,825. NUT-TAPPING MACHINE. HARVEY E. PRUITT, Fenton, Mich. Filed Dec. 24, 1926. Serial No. 156,848. 5 Claims. (Cl. 10—130.)



1. A nut tapping machine comprising a pair of spring controlled shiftable nut carriers, each carrier being provided with a vertically disposed nut guide terminating at its lower end in an outwardly extending downwardly inclined discharge groove for the nut, an intermittently operable spring controlled work feed for shifting the carriers against the action of their controlling springs in a direction to position a pair of nuts to be tapped, said carriers being slidably supported on said work feed, and shiftable nut holding means mounted in the lower ends of the carriers for normally holding the tapped nuts within the carriers and adapted when shifted from normal position to permit of discharge of the tapped nuts.

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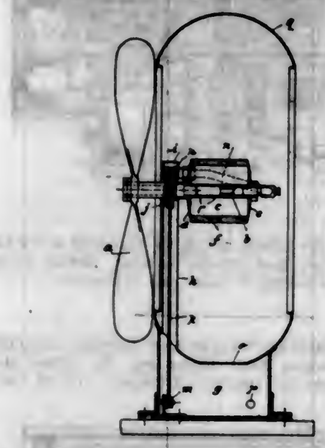
1,691,826. MUSICAL INSTRUMENT. OSCAR A. ROSS, New York, N. Y. Filed Mar. 4, 1927. Serial No. 172,755. 21 Claims. (Cl. 84—408.)



4. A bowed musical instrument comprising a tone producing reed, means for supporting each end thereof whereby the unsupported portion thereof is arranged to be tensioned, means affecting the supporting means for varying the degree of the tension whereby varying pitch tones are produced as the rosined bow is drawn across the unsupported portion, and means for producing a vibration of the reed for producing a vibrato effect of the tone independently of the tone vibration produced by drawing the bow across the unsupported portion of the reed.

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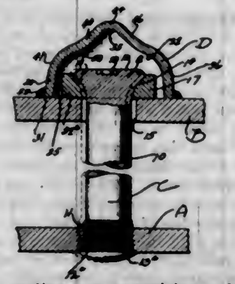
1,691,827. APPARATUS FOR PURIFYING AND MOISTENING AIR. ALBERT SCHÜCKHER, Vienna, Austria. Filed Feb. 15, 1924, Serial No. 693,143, and in Austria Feb. 19, 1923. 2 Claims. (Cl. 261—88.)



1. In a device for purifying and moistening air, a base adapted to contain a supply of liquid, a hollow shaft rotatably mounted above the base, a fan mounted on said shaft, a drum secured to said shaft and arranged in connection therewith and adapted to receive liquid therefrom and having the outer periphery constructed of porous material so that liquid may be forced therethrough owing to centrifugal action, a tubular support arranged vertically in the base and in connection therewith and serving as a support for the shaft, a liquid receiving member at the top of the tubular part, means for conducting liquid from the base through the support to the receiving member, and means for conducting liquid from the receiving member to the shaft.

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1,691,828. STAY-BOLT CONSTRUCTION. FRANK W. SHUPERT, Sanford, Fla. Filed Mar. 22, 1926. Serial No. 96,647. 1 Claim. (Cl. 85—1.5.)



A stay bolt sealing cap comprising a hollow ring-like base portion in the form of the frustum of a cone, and an integral hollow approximately conical outer portion the external surface of which is inclined to a greater degree with respect to the axis of the cap than the external surface of the base portion, said base and conical portions having internal surfaces substantially conforming in angularity to the external surfaces of said portions to provide a compartment in the cap which is largest at the base portion and therefrom restricted to the top of the conical portion.



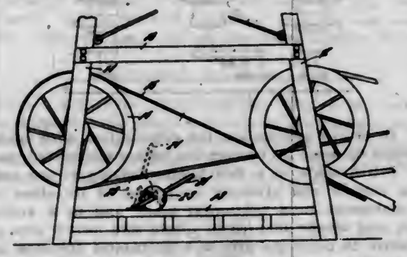
1,691,829. NUT. GEORGE W. SILBAUGH, Charleroi, Pa. Filed June 19, 1926, Serial No. 117,209. Renewed July 9, 1928. 2 Claims. (Cl. 85—36.)



2. A nut member having notches in the outer end thereof, a lever pivoted in each notch and having a cam part which is toothed and which will extend within the bore of the nut when the lever is in closed position and means for holding the levers in closed position.

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1,691,830. THROWING-OFF DEVICE. GUY P. SLATER, Sand Springs, Okla. Filed July 28, 1926. Serial No. 125,498. 1 Claim. (Cl. 64—4.)



A device for throwing a rope from a wheel, said device comprising a spirally grooved drum mounted to impart lateral movement to the rope with reference to the drum, and a lever controlled rock shaft of the crank shaft type mounting the drum for movement in an arc-shaped path while said drum maintains parallel relation with the axis of rotation of the wheel.

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1,691,831. SANITARY TOOTHPICK HOLDER. FURMAN Q. SLAY, Weathersby, Miss. Filed Oct. 9, 1925. Serial No. 61,549. 1 Claim. (Cl. 312—77.)



In a device of the class described, a housing having an opening in the top thereof, a hopper extending into the housing thru said opening, a transversely extending element loosely supported within the lower part of the housing, an apertured cap for the hopper, self-closing closure means for the aperture of the cap, a pin fixedly mounted in the transverse element and positioned to pass through the lower end of the hopper and into the latter incident to downward movement of the hopper, and a spring holding the hopper in an upper position, the spring having its lower end bearing on the transverse element and acting as a retaining device therefor.

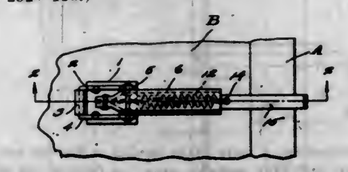
1,691,832. AUTO HEADLIGHT DIMMER. JAMES C. SWEET, Flint, Mich., assignor of one-half to Ida E. Sweet, Flint, Mich. Filed Aug. 5, 1926. Serial No. 127,431. 1 Claim. (Cl. 176—34.)



In an electric bulb of the character described, a body having a non-light emitting portion lying concentrically substantially over the entire forward end of the bulb and extending longitudinally of the wall of said body in a direction toward its rear end, said portion being gradually tapered from the forward to the rear end of the body.

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1,691,833. FASTENER. EARL VOSBURG, Ada, Mich. Filed Mar. 26, 1927. Serial No. 178,741. 2 Claims. (Cl. 292—113.)



1. A fastener of the character described comprising a body plate, means for securing said body plate to a closure, a bail pivotally secured to said body plate and having the free ends of its arms formed with eyes, a substantially U-shaped in cross section handle pivotally secured to said arms through the medium of the eyes thereof, a pin transversing said handle, a coil spring pivotally secured to said pin and adapted to be received in the handle which acts as a housing therefor, and a penetrating means secured to said coil spring for gripping the frame of the closure.

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1,691,834. POWER-TRANSMISSION MEANS. BENJAMIN O. WARD, Cheoah, N. C. Filed May 25, 1928. Serial No. 280,587. 2 Claims. (Cl. 74—34.)

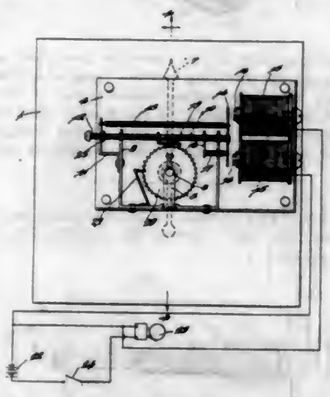


1. Transmission means of the class described comprising a shaft, means for rotatably supporting the shaft, a pair of brake drums rotatably mounted on the shaft, a pinion on the shaft connected with one of the drums, a second pinion on the shaft loosely associated with the other drum and fastened to the shaft, a hollow shaft rotatably mounted on the first shaft, a pinion at each end of the hollow shaft, these pinions being of the same size and oppositely arranged to the first mentioned pinions, planetary gearing keyed to the first shaft and meshing with one of the pinions of the hollow shaft and with the pinion which is connected with its drum, planetary gear-

ing meshing with the other pinion of the hollow shaft and with the pinion which is keyed to the first shaft, means for applying power to one shaft and take-off means connected with the other shaft.

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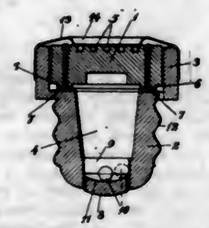
1,691,835. REGISTER. JESSE S. WINER, Sturgis, Mich. Filed Mar. 27, 1925. Serial No. 18,896. 1 Claim. (Cl. 177—328.)



In combination, a body plate having a dial on one face thereof, an indicator movable over the face of the dial, a supporting member carried by the body plate, a U-shaped bracket, a rotatable shaft supported by said bracket and carrying said indicator, another substantially U-shaped bracket, a rod slidably supported by said last mentioned bracket, an arm on said rod, a pin on said rod adapted to extend through an opening in one leg of said bracket whereby rotation of said rod may be prevented, a ratchet wheel mounted on said shaft, a pawl on said rod adapted to engage said ratchet wheel, a pawl adapted to prevent retroactive movement of said ratchet wheel, electromagnets, an armature on the end of said rod, means for supporting said electromagnets such that when energized they will attract said armature, a spring adapted to be expanded by said attraction of said armature on said rod whereby said rod will be moved to cause said pawl to move said ratchet after said magnets have been deenergized after they have attracted said armature whereby said indicator will be moved over said dial in a step by step manner, a bracket carried by a leg of said second named U-shaped bracket, and an adjustable screw carried by said bracket adapted to engage the end of said rod whereby movement of said rod as caused by said spring may be limited.

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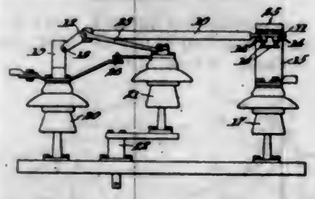
1,691,836. ELECTRIC CIGAR AND PIPE LIGHTER WITH EXCHANGEABLE INCANDESCENT BODY. HEINZ AGATZ, Berlin-Friedenau, Germany. Filed Apr. 6, 1926. Serial No. 100,128, and in Germany Apr. 7, 1925. 3 Claims. (Cl. 200—52.)



3. In a circuit closer a hollow circular body, a conductor sleeve carried thereby, a conductor ring held within the hollow body adjacent one end thereof, and having electrical connection with the conductor sleeve, a base contact member closing one end of the hollow body and disposed in close relation to the conductor ring and constituting the other terminal of said electrical circuit, the inner face of the base contact member being concave, and a spherical circuit closing element resting on the concave face and normally retained by gravity in a central position thereon where it will not contact with the conductor ring, the circuit closing element being movable to positions to engage the ring and base contact member at the same time to complete an electric circuit upon tilting the body with respect to the vertical.

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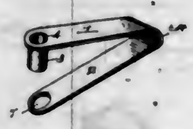
1,691,837. HIGH-TENSION SWITCH MECHANISM. DAVID BEATTIE, Greensburg, Pa., assignor to Railway and Industrial Engineering Company, Greensburg, Pa., a Corporation of Pennsylvania. Filed Jan. 13, 1926. Serial No. 81,027. 5 Claims. (Cl. 200—48.)



1. In switch mechanism, the combination with contact elements disposed for cooperation with a horizontally movable switch blade, of a switch arm defining at one end a blade portion and pivotally supported at its other end for movement in a horizontal plane and in a vertical plane, and means adapted to rotate said switch arm and operative to move the arm in a horizontal direction into and out of contact with the contact elements and in a vertical direction during the balance of the opening and closing movement.

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1,691,838. ANIMAL TAG. CHARLES RALPH BOSHART, Lowville, N. Y. Filed Sept. 19, 1925. Serial No. 57,325. 1 Claim. (Cl. 40—3.)



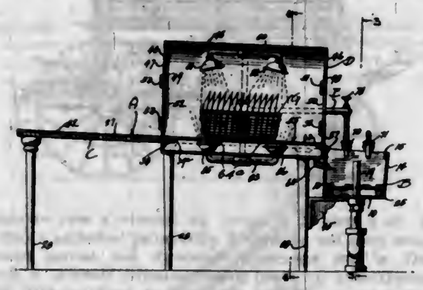
An animal marker comprising a flexible element bent intermediate its ends to form upper and lower members to provide a loop, the free extremity of the upper members being formed with an opening, a sleeve of uniform diameter surrounding said opening and extending therefrom, the free extremity of the lower member being formd with an opening through which said sleeve is adapted to project and sufficiently beyond the exterior surface thereof for crimping purposes, a seal embodying a head and a shank, the head being adapted to contact the exterior surface of the upper member and the shank extending through the sleeve and the opening in the lower member to the exterior thereof, the free end of the shank being formed with a head of sufficient diameter to overlie the crimped end of said sleeve, said head cooperating therewith to maintain the upper and lower members in interlocked parallel relation.

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1,691,839. DISHWASHING APPARATUS. LANGDON CASKIN, Haverford, Pa. Filed Dec. 22, 1925. Serial No. 77,086. 7 Claims. (Cl. 141—9.)

1. Dish washing apparatus comprising a trough, drain means for the trough, a spray cabinet, having a bottom, a tray for the spray cabinet disposed in a plane substantially above the said bottom and the trough, said spray cabinet having an entrance opening adjacent the trough and facing the same and an exit opening at its opposite end aligning with the entrance opening and likewise disposed above said tray, means for spraying water in said

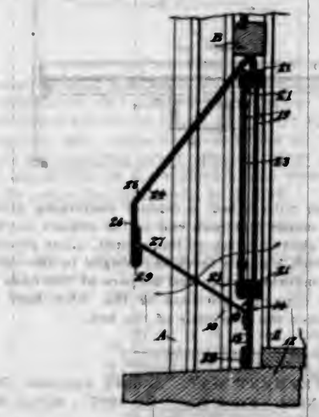




cabinet upon articles passing therethrough, a table outwardly of the exit opening of the spray cabinet for receiving dishes as they exit from said exit opening, said table and spray cabinet bottom inclining towards and each directly extending to the trough for drain of water thereinto.

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1,691,840. WINDOW VENTILATOR. FRANK M. CRUMLEY, Urbana, Ind., assignor, by direct and mesne assignments, of one-third to Gilbert Grandstaff and one-third to E. V. Sholty, Urbana, Ind. Filed Nov. 27, 1926. Serial No. 151,120. 7 Claims. (Cl. 98—99.)



1. A ventilator for the purpose set forth comprising a pair of interfitted extensible sections, each of said sections consisting of a pair of spaced, superposed plates, a screen panel extending across the space between said plates, vertically and longitudinally extending means secured to the plates for fixedly securing the panel in position, said vertically extending means, connecting the plates together at the ends thereof, and an angle shaped canopy extension projecting from one of said plates and opposing and spaced from said panel.

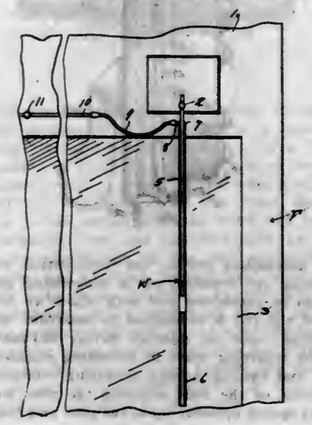
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1,691,841. PROCESS FOR PRODUCING PURE LEAD CARBONATE FROM CRUDE LEAD SULPHATE. RENÉ DALOZE, Uccle, Brussels, Belgium. Filed Oct. 18, 1926, Serial No. 142,527, and in France July 3, 1926. 3 Claims. (Cl. 23—69.)

1. A process for the manufacture of pure lead carbonate, comprising the steps of treating crude lead sulphate (for example, slime, from lead chambers) with a solution of alkali-earth metal acetate the bases of which form insoluble sulphates such as calcium acetate, barium acetate, etc., in excess to effect a double decomposition between the lead sulphate and said alkali-earth metal acetate, separating the resulting solution from the insoluble matter (comprising insoluble alkali-earth metal sulphate derived from the said double decomposition), treating the separated solution with an alkali-earth metal base; and decomposing by carbon dioxide the tri-basic lead acetate formed in solution, to precipitate lead carbonate.

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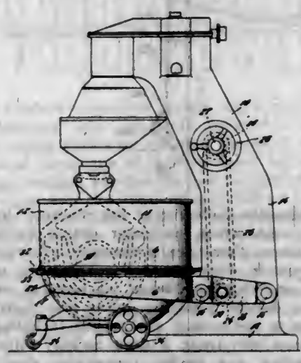
1,691,842. WINDSHIELD-WIPER HEATER. JOSEPH C. DAMUSH, Shenandoah, Pa. Filed Feb. 18, 1928. Serial No. 255,457. 1 Claim. (Cl. 15—255.)



In combination with a windshield wiper including a wiping element movable across a face of a windshield, tubes extending along opposite sides of the wiping element and having their outer ends closed, the walls of the tubes having jet openings disposed toward the adjacent surface of the windshield, a return bend connecting the inner ends of the tubes and constituting a continuation thereof, a nipple extending outwardly from the bend and in communication therewith, and means for delivering a heated fluid within the tubes through the nipple for discharge through the jet openings upon the adjacent surface of the windshield.

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1,691,843. MIXING MACHINE. WALTER F. DEHUFF, Glen Rock, Pa. Filed June 10, 1927. Serial No. 197,932. 11 Claims. (Cl. 259—93.)

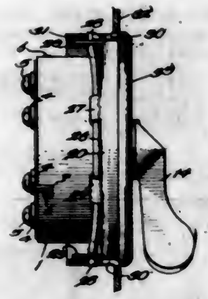


2. In a mixing machine, a frame, relatively movable saddle arms carried by the frame, a mixing bowl adapted to be supported by said arms, means to move the saddle

arms relatively inward and outward to engage or release the bowl and interengaging means on said arms and bowl whereby engagement of the saddle arms with the bowl will elevate said bowl, and position the same to receive the mixing mechanism of the mixing machine.

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1,691,844. ATTACHING MEANS FOR CASINGS. HARRY A. DOUGLAS, Bronson, Mich. Filed Aug. 2, 1926. Serial No. 126,730. 1 Claim. (Cl. 248—30.)



In an assembling device, the combination with an arcuate spring rod terminating in assembling pins; of an element to be assembled and with which an intermediate portion of the rod is assembled to constrain the rod into one position; and an element having bayonet channels having pin receiving seats in actuating engagement with the pins and thereby having actuating relation with the end portions of the rods carrying the pins whereby the rod exerts spring pressure upon the pins and the pin seats.

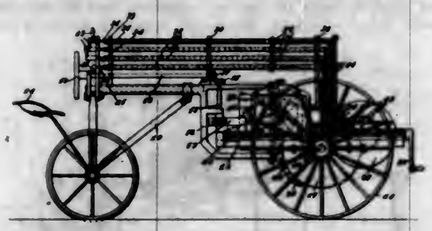
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1,691,845. DIRECTION INDICATOR FOR VEHICLES. ANDREW GALLEY, Buffalo, N. Y. Filed June 16, 1928. Serial No. 286,015. 7 Claims. (Cl. 116—43.)



1. In a direction indicator of the character herein described, in combination, an outer casing having front and rear windows diametrically disposed, a rotatable drum having oppositely disposed similar signaling means of translucent material, and means for rotating said drum to bring any desired signaling means into registry with the openings in the casing, said means including a cord extending from the drum, a fixed member adjacent the driver's position and having converging slots therein, a rotatable member in said fixed member and connected with the cord, and a handle on said rotatable member extending thru and movable along said slots.
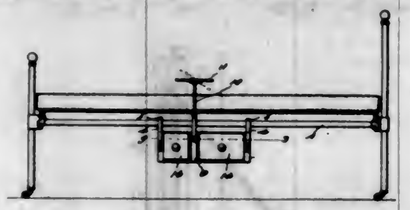
1,691,846. TRACTOR. HENRY R. HALVORSEN, Finley, N. Dak. Filed Oct. 5, 1927. Serial No. 224,217. 2 Claims. (Cl. 180—77.)



1. In a tractor, a clutch, an operator's seat arranged remote from the machine, a differential including a driven shaft, a disk associated therewith and having spaced concentrically arranged gears mounted thereon, a drive shaft, pinions mounted thereon and meshing with said concentric gears, a sliding clutch mounted on the drive shaft for each pinion, means for selectively operating said clutches from a point adjacent the seat, to regulate the speed and direction of movement of said tractor, means for steering the tractor, and a clutch operating shaft controlled from said seat.

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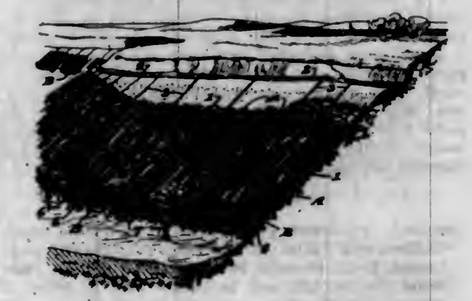
1,691,847. TABLE AND DRAWERS FOR BEDS. MINNIE EVA HENDRICKS, Greenville, S. C. Filed Nov. 16, 1927. Serial No. 233,715. 1 Claim. (Cl. 5—308.)



In combination with a bed, a cabinet containing drawers, a U-shaped member at each end of the cabinet having its bight spaced above the top of the cabinet, a bar pivoted to each end of each bight, a latch bar hinged to the outer end of the first mentioned bar and keepers at the ends of the cabinet for engaging portions of the latch bars to hold the parts over the side rails of the bed.

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1,691,848. REVETMENT MAT. AUGUST JOHNSON, Nebraska City, Nebr. Filed Sept. 10, 1927. Serial No. 218,708. 2 Claims. (Cl. 61—38.)



1. A revetment-mat having a plurality of fascines, cables passing around the fascines to secure them together, a fascine transverse to and superposed on the first mentioned fascines adjacent the lower longitudinal edge of the mat to retain ballast, said cables having loops securing the transverse fascine to the first mentioned fascines.



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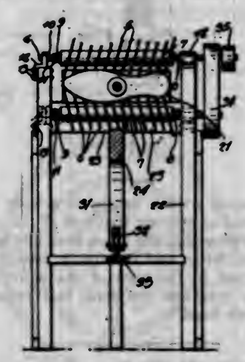
1,691,849. TYPOGRAPHICAL MACHINE. GEORGE P. KINGSBURY, Hollis, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 22, 1927. Serial No. 200,521. 18 Claims. (Cl. 199—45.)



1. In a linotype machine, a series of movable main magazines and a series of movable auxiliary magazines, in combination with power-actuated means for bringing any selected magazine of either series into operative position, together with means for establishing an operative connection between said power-actuated means and either series of magazines, or for rendering said means inactive upon both series simultaneously, as desired.

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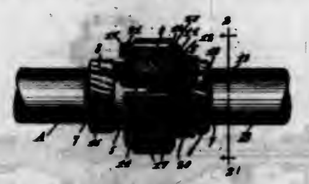
1,691,850. WOODWORKING APPARATUS. GEORGE KRASNOSKY, Pensacola, Fla. Filed July 16, 1927. Serial No. 206,224. 5 Claims. (Cl. 144—236.)



1. In a woodworking apparatus, a rotatable driving and supporting shaft, a gang of disk cutters of different diameters mounted obliquely of and in spaced parallel relation upon said shaft to be driven by the latter, certain of said cutters further being of non-circular form, and embodying similar peripheral cutting teeth projecting outwardly for different distances into a circular cutting zone, concentric with the axes of the said certain cutters and defined by circular lines intersecting the inner and outer ends of the teeth which project outwardly for the greatest distance.

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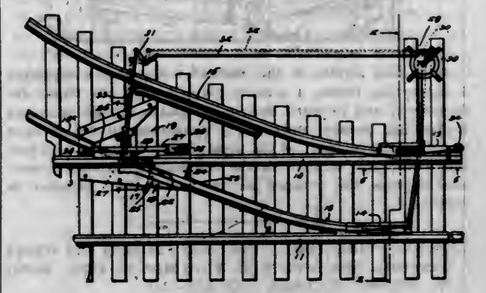
1,691,851. SELF-TIGHTENING PIPE UNION. GEORGE A. MCCUEAN, Sharpsburg, Pa. Filed Oct. 29, 1926. Serial No. 145,080. 2 Claims. (Cl. 285—122.)



1. A pipe coupling comprising interiorly threaded male and female members for connection to a pair of pipe sections and arranged in end opposed relation, said male member formed at its inner end with a head and said female member formed at its inner end with a rim providing a seat for said head, said rim being peripherally threaded, a collar surrounding the head and threadedly engaging with the rim and provided with an inwardly extending annular flange at one end surrounding said male member and abutting against said head and provided with lengthwise extending tangentially disposed peripheral notches, and a tensioning device surrounding said female member, anchored at one end thereto and having at its upper end a U-shaped stirrup selectively engaging in said notches and abutting against the ends of said collar to prevent a loosening rotation of said male and female members relatively to each other.

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1,691,852. RAILWAY SWITCH. JOHN MCMURTNY, Mission, Tex., assignor of one-third to W. H. Parks and one-third to A. H. Strahle, Mission, Tex. Filed Dec. 28, 1927. Serial No. 243,191. 6 Claims. (Cl. 246—383.)

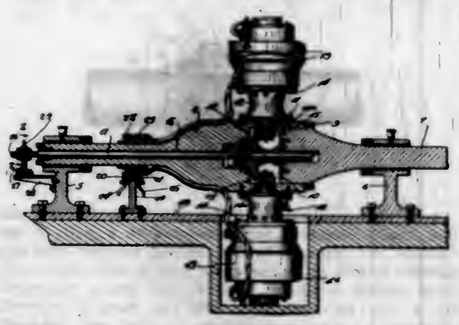


1. A frogless cross-over switch mechanism comprising in combination with the main rails of a right-of-way, tapered switch points for coaction therewith one of which is arranged outwardly of the associated rail and when in switching position overlies the rail, a pair of castings arranged upon opposite sides of said rail at points spaced from said switch point, said castings having their upper faces co-planar with the head of the rail, a rail section connected to the other of said switch points and extending to the casting disposed between the rails, the head of said rail sections extending above the upper surface of the casting, a second rail section secured to the other of said castings and aligning with the first named rail section, the second rail section likewise having its head extending above the surface of its casting, a switch point pivoted to the last named casting and movable from a position where it parallels said main rail of the right-of-way to a position where it extends over said main rail and bridges the

gap between the heads of said rail sections and means upon one of the castings engaging the outer face of said switch point to limit movement thereof when in the last named position.

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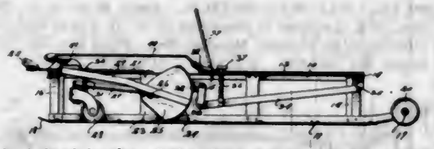
1,691,853. ROTARY ELECTRIC ENGINE. ERROL M. MOLLETT, Sacramento, Calif. Filed Dec. 22, 1927. Serial No. 241,840. 5 Claims. (Cl. 172—36.)



1. The combination with a chambered rotary drive shaft, of a stationary track gear in the chamber of said shaft, an electric motor fixed on said shaft with its armature shaft arranged radially to said drive shaft and projecting into the chamber of the latter, a pinion carried by the armature shaft of said motor and engaged with said stationary track gear, and electric connections to said motor.

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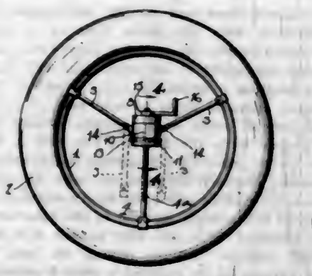
1,691,854. LAND LEVELER. EDWARD OVERMAN, Los Angeles, Calif. Filed Dec. 22, 1927. Serial No. 241,910. 14 Claims. (Cl. 37—150.)



1. A land leveler of the character described comprising a supporting frame, a scraper pivoted upon the frame for downward and forward movement, and a ground engaging controlling member operatively connected to the scraper and disposed in front of the pivotal center thereof and acting to lift the scraper as the controlling member lowers and depress the scraper as the controlling member is raised.

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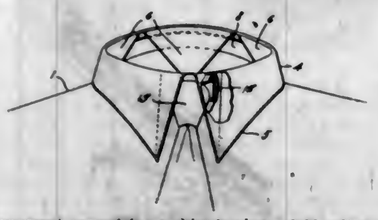
1,691,855. TIRE TOOL. BERNARDO POLISENA and HENRY CAMPEDEL, New York, N. Y. Filed Mar. 30, 1928. Serial No. 265,940. 2 Claims. (Cl. 157—1.)



1. In a tire tool, a plurality of radial arms having rim engaging heads at their outer ends, one of said arms being threaded, a block threaded thereon, having a reduced annular neck, a collar rotatable on the reduced neck, a bottom plate threaded on the arm and having a key-shaped recess in its upper face, a key-shaped extension on the lower end of the block received in the recess cross-pins for locking the bottom plate to the block and retaining the collar in position, a pivotal connection between the collar and other arm, and means for rotating the block and plate.

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1,691,856. COLLAR. MAURICE ROBBINS, Boston, Mass. Filed Dec. 13, 1927. Serial No. 239,732. 1 Claim. (Cl. 2—116.)



A garment comprising a shirt having a fold collar around the neck portion thereof, the inner fold of the collar having its lower edge stitched to the neck portion of the shirt, and the outer fold of the collar having its lower edge stitched to both the neck portion and front of the shirt, the inner fold, at the open front of the collar having extending portions which are designed to be connected and which have openings therethrough inward of the confronting ends of the outer fold for the passage of the band of a necktie, and stiffening and reinforcing tabs stitched to the inner fold of the collar and to the inner face of the shirt below the neck portion thereof and between which tabs and the inner fold of the collar the strap of the necktie is guided.

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1,691,857. ATTACHMENT FOR PAINTBRUSHES. PAUL A. ROSAI, Campbell, Ohio. Filed Apr. 3, 1928. Serial No. 267,018. 1 Claim. (Cl. 15—248.)

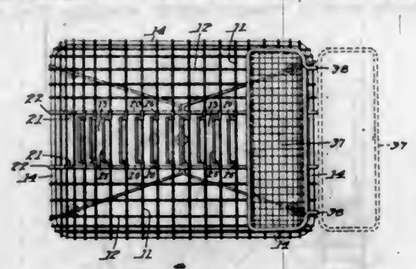


The combination with a brush, of a split band spaced from and adapted to encircle the head of the brush, a compressible strip connecting the brush head and band adjacent one edge of the latter and defining a trough, and means pivotally attached to the ends of the split band to connect said ends, compress the strip and clamp the latter around the brush head.

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1,691,858. DISH DRAINER. EUGENE H. RYERSON, Worcester, Mass. Original application filed Apr. 27, 1923, Serial No. 635,141. Divided and this application filed Oct. 8, 1926, Serial No. 140,361. Renewed Sept. 15, 1928. 1 Claim. (Cl. 141—11.)

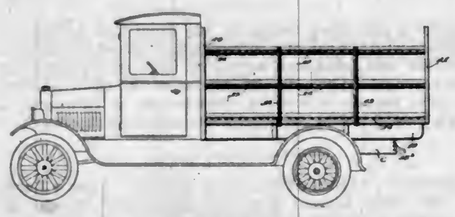
As an article of manufacture, a dish drainer comprising a bottom having a series of transverse wires with spaces between them and a plate rack mounted above the bottom, having a series of upwardly extending looped wires for separating the plates from each other and engaging them near their centers to hold them in upright position, said rack having transverse wires forming a series of spaces



in the bottom registering with the spaces in the bottom of the dish drainer and spaced therefrom whereby a series of dish drainers can be nested together without removing the racks, the looped wires of each dish drainer projecting through the bottom of the one above.

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1,691,859. TRUCK BODY. FRED SCHELBEN, Greenville, Miss. Filed Sept. 28, 1927. Serial No. 222,596. 5 Claims. (Cl. 296—3.)



1. A truck body comprising longitudinally extending side channel beams, transverse skeleton trusses, supporting said side beams, transverse T-beam slats supported on said side beams, longitudinally extending T-beams supporting said slats intermediate their ends, and angled guard beams supported at each end of said transverse slats.

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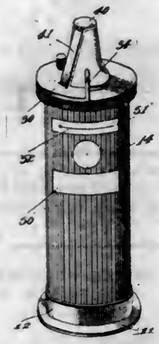
1,691,860. COMBINED LIGHTING AND IGNITION SYSTEM FOR AUTOMOTIVE VEHICLES. WILLIAM SCHMID, Coldwater, Mich., assignor to Caskey-Dupree Manufacturing Company, Coldwater, Mich., a Corporation of Ohio. Filed Nov. 22, 1924. Serial No. 751,638. 1 Claim. (Cl. 200—44.)



An electric switch including a casing, a rotatable contact actuating ring within said casing, the inner peripheral face of said ring having a recess formed therein providing a pair of spaced stop shoulders at the ends thereof, a member located within said ring and mounted on said casing for movement into and out of said recess whereby the ring has limited rotary movement when said member is disposed within said recess, and a lock controlling the movement of said member.

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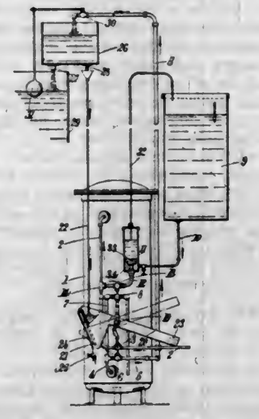
1,691,861. DISPENSING CONTAINER. HARRY S. STOUT, Huntington, W. Va. Filed Dec. 21, 1927. Serial No. 241,739. 4 Claims. (Cl. 221—79.)



1. A dispensing container comprising a barrel, a screw within the barrel, a piston having means engaging threads of the screw whereby rotation of the screw will cause movement of the piston longitudinally of the barrel, a dispensing head mounted for rotation on one end of the barrel and rigid with the screw, said head having a discharge passage for liquids, a closure for said passage, a lever pivotally connected with the head for moving the closure to an inoperative position, while providing means for manually rotating the head and likewise the screw.

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1,691,862. APPARATUS FOR THE SOFTENING OR PURIFYING OF WATER OR FOR CARRYING OUT PROCESSES BASED UPON EXCHANGE REACTIONS. ROBERT HUNTER THOMSON, Kingston-on-Thames, and HAROLD SYDNEY LAWRENCE, Ilford, England, assignors to United Water Softeners Limited, London, England, a British Company. Filed Mar. 15, 1928, Serial No. 261,858, and in Great Britain Mar. 11, 1927. 11 Claims. (Cl. 210—24.)

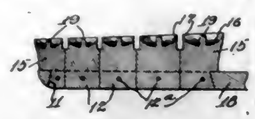


1. An apparatus for the treatment of liquid by a base exchange material, consisting of a container for the base exchange material, inlet and outlet pipes for the liquid to be treated connected to said container, a control valve arranged in said inlet pipe, a balance lever mechanism

linked to said valve, a receptacle mounted upon said mechanism, and means for supplying a predetermined proportion of the liquid flowing from the treating apparatus to said receptacle.

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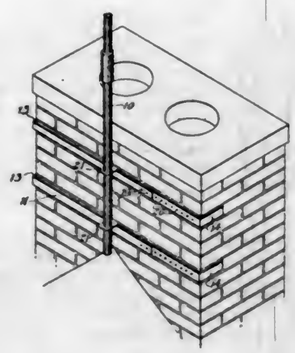
1,691,863. TOOTHBRUSH. ROBERT H. VAN SANT, Chicago, Ill. Filed Nov. 23, 1923. Serial No. 676,546. 1 Claim. (Cl. 15—188.)



A tooth brush of the class described, comprising a series of spaced moulded members having spherical depressions in the faces thereof, pointed projections in the center of said depressions, and sharp edged rims composed of a flexible material.

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1,691,864. RADIO AERIAL SUPPORT. CARL WICKE, New York, N. Y. Filed Sept. 4, 1926. Serial No. 133,596. 3 Claims. (Cl. 248—38.)

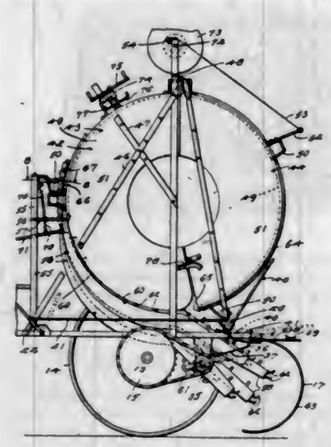


2. A radio aerial mast support, including a pair of sections each having a rearwardly extending angularly disposed arm at the outer end and having the inner ends overlapped, the inner terminal of the innermost overlapped end having upper and lower outwardly projecting ears between which the other overlapped end is positioned, the said upper ear having an aperture snugly receiving the mast, and interengaging means on the overlapped ends of the sections engageable by relative movement of the sections toward each other into parallel contact for retaining the same against longitudinal or vertical movement, the said mast serving when positioned in the apertured ear to prevent lateral relative separation of the overlapped ends of the sections whereby to retain the connecting means in interengaged relation.

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1,691,865. HAY-BALING DEVICE. JOHN M. WOLF, Devils Lake, N. Dak. Filed Feb. 4, 1928. Serial No. 251,957. 12 Claims. (Cl. 100—65.)

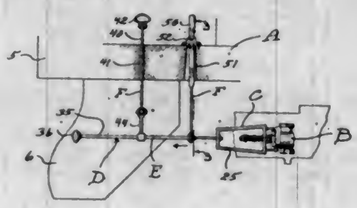
5. In a hay gathering and baling apparatus, a wheel supported platform, a rake supported thereby, a horizontally disposed bale forming drum supported by the platform and horizontally longitudinally split into two sections one of which is movable to permit discharge of a bale formed in the drum, said sections when in closed position having adjacent edges thereof at the lower ends spaced to form a mouth and means operating during movement of the machine conveying hay from the rake through said mouth to the interior of the drum and causing the same to move perimetrically of the drum, circumferentially extending tubes secured to the movable section of the drum and held against movement with relation thereto, longitudinally movable circumferentially extending tubes se-



cured to the other section of the drum and movable to engage with the end of a corresponding tube of the movable section, said tubes each having its inner wall slotted and in communication with the interior of the drum whereby a wire may be introduced therethrough to encompass a bale formed within the drum while contained therein.

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1,691,866. VALVE-OPERATING MEANS. JOSEPH BENTLEY, Sioux Lookout, New Ontario, Ontario, Canada, assignor of one-half to Edwin Pierson, Sioux Lookout, New Ontario, Canada. Filed June 27, 1927. Serial No. 201,798. 9 Claims. (Cl. 137—139.)



1. In a valve operating means, the combination with a valve including a rotatable stem projecting from the face of the valve body, of a yoke movably mounted on the stem for rotation thereof and having a keeper pin projecting from the inner end of the yoke for engagement with an abutment on the valve body, and spring means acting upon the yoke for normally urging the same toward the valve body and the keeper pin to a position for engagement with the abutment on the valve body.

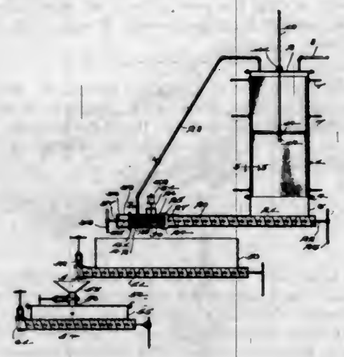
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1,691,867. FILTER. CHARLES ST. CLAIR BURNS, Port Arthur, Tex., assignor of one-half to Foist Kay, Port Arthur, Tex. Filed Jan. 23, 1926, Serial No. 83,403. Renewed Sept. 28, 1928. 7 Claims. (Cl. 210—183.)

1. A filter including a closed filtering chamber, filtering means therein, means for supplying fluid to be filtered to the chamber, means for cleaning off the excess solids from the filtering means, means for discharging said solids, having a discharge outlet, a valve cooperable with the outlet



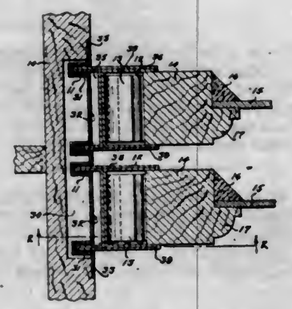
for controlling the discharge of the solids, one side of the valve being subjected to the pressure within the chamber exerted through the solids being discharged, means for



subjecting the opposite side of the valve to the pressure within the chamber, and yieldable means tending to close the valve.

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1,691,868. FRAME AND SASH CONSTRUCTION. AXEL G. DAWSON, Jamestown, N. Y. Filed Apr. 26, 1927. Serial No. 186,764. 2 Claims. (Cl. 20—5.2.)

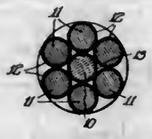


1. The combination with a frame having a plate secured thereto, said plate being provided with a plurality of recesses; of a sash provided with adjustable sleeves and take up members, said sleeves being each provided with two oppositely faced longitudinal pockets formed from continuous flanges, the edge of said sash being slidably engaged within one of said pockets in said sleeve, said continuous flanges removably engaging certain of said recesses in said plate and said take up member operably secured within said sash receiving pocket between said sleeve and said sash, whereby said sleeve may be shifted longitudinally of said sash and said sash caused to reciprocate in said pocket.

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1,691,869. ELECTRICAL CONDUCTOR. FRANK F. FOWLE, Chicago, Ill. Filed July 3, 1924. Serial No. 723,863. 16 Claims. (Cl. 173—13)

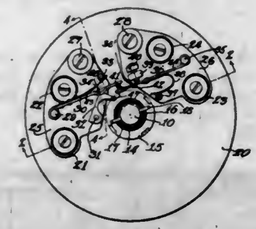
1. A composite electrical conductor comprising two metals, one having the quality of relatively high electrical conductivity and the other being an iron-base metal of relatively great mechanical strength and containing at least as much as thirty hundredths per cent content of



chemically combined carbon, said iron-base metal being so disposed in the body of the conductor that the metal of high conductivity is substantially enclosed thereby.

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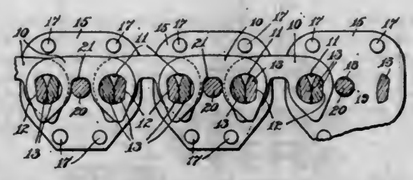
1,691,870. IGNITION DEVICE. GEORGE GADKE, Philadelphia, Pa., assignor to William Gadke, Philadelphia, Pa. Filed Feb. 25, 1922. Serial No. 539,066. 12 Claims. (Cl. 200—30.)



2. In an ignition device, a timer shaft, a cam mounted thereon and insulated therefrom, means for driving the cam by the timer shaft, a bearing for the timer shaft, terminal plates on the bearing insulated therefrom, stiff contact members on the terminal plates spring pressing into contact engagement, an adjustable stop for the position of one of these contact members and a pivoted stiff member on one terminal plate engaging the cam on one side and the other contact member on the other to separate the contact members from engagement.

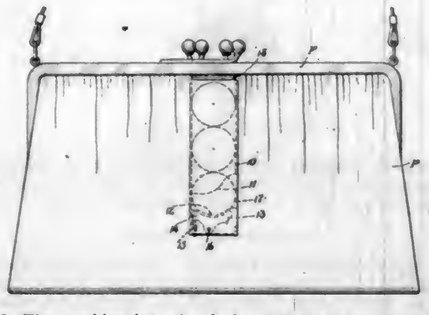
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1,691,871. DRIVING BELT. MILTON O. REEVES, Columbus, Ind.; Paul B. Reeves, administrator de bonis non of said Milton O. Reeves, deceased, assignor to Reeves Pulley Company, Columbus, Ind., a Corporation of Indiana. Filed July 23, 1924. Serial No. 727,838. 7 Claims. (Cl. 74—32.)



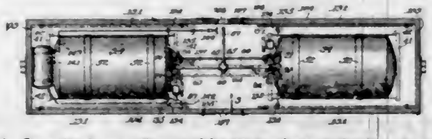
1. A drive belt comprising a plurality of pressure bars each consisting of a plurality of links and a centrally located bridge rod extending between the outer links and engaging the same to limit approach of said outer links and passing through the intermediate links laterally of the bar, connecting series of links between and interdigitated with links of adjacent pressure bars, and means connecting the pressure bar links and interdigitated links.

1,691,872. HAND BAG AND SIMILAR ARTICLE OF LUGGAGE. ABRAHAM MELVIN SIMS, Brooklyn, N. Y. Filed Jan. 7, 1928. Serial No. 245,060. 5 Claims. (Cl. 150—37.)



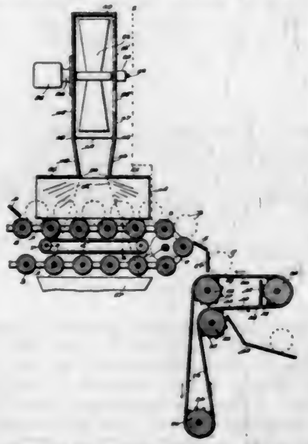
1. The combination of a body of a hand-bag, a puller hinged to said body, said puller having a hollow body, a series of coins in said hollow body and means by which said coins may be successively removed.

1,691,873. RAILWAY CAR. ROBERT R. WEAVER, Chicago, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed Nov. 21, 1924. Serial No. 751,260. 13 Claims. (Cl. 105—358.)



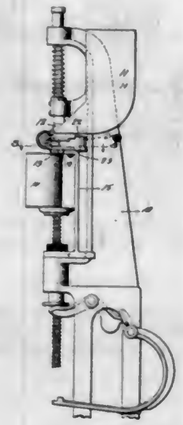
1. In a tank car, the combination of an underframe comprising a center-sill structure, a unitary cradling structure having a centrally-disposed depending portion superposed on, and connected with, said center sill, a platform carried by said underframe and extending beneath the side portions of said cradling structure substantially to said depending portion, a tank mounted on said cradling structure, and a tank band engaging said tank and connected at its ends to said cradling structure.

1,691,874. FRUIT-DRYING MACHINE AND METHOD. EDWARD A. WHITE, Lewiston, Idaho. Filed Jan. 27, 1928. Serial No. 249,979. 12 Claims. (Cl. 34—12.)



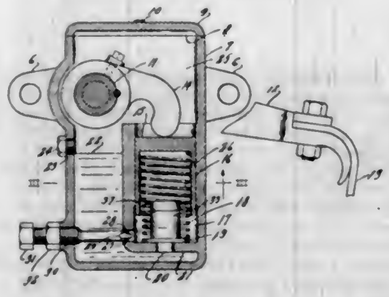
1. In a fruit drying apparatus, a carrier for relatively slowly advancing wet fruit to be dried, fan means for directing an undivided drying air blast stream free from abutting interference onto a relatively limited number of all the fruit integers being advanced and in one general direction thereagainst, and mechanism for causing relative rapid turning movement of those advancing fruit integers which are directly within the zone of said air blast stream to insure exposure of total peripheries of such fruit to said blast stream.

1,691,875. CAPPING MACHINE. GEORGE A. WILLIAMS and ROLAND E. HILL, Decatur, Ill., assignors to Williams Sealing Corporation, Decatur, Ill., a Corporation of Illinois. Filed Oct. 11, 1926. Serial No. 140,741. 4 Claims. (Cl. 226—129.)



4. In a device of the kind described, the combination with means for raising and lowering a container, of a pair of movable gripping jaws carried by and movable with said means, and stationary means for causing said jaws to move toward and away from each other as said raising and lowering means moves up and down.

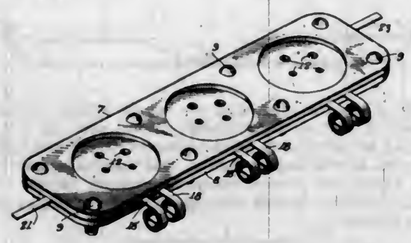
1,691,876. REBOUND-DEVICE RELIEF VALVE. ERNEST W. ACKERMAN and GRIFFITH C. NICHOLSON, Monroe, Mich., assignors to Hydro-Check Corporation, Monroe, Mich., a Corporation of Michigan. Filed Dec. 13, 1926. Serial No. 154,428. 6 Claims. (Cl. 267—8.)



1. A dash-pot device comprising a piston and cylinder, a first port for one thereof to said cylinder, a flanged member at said port having a tubular portion therefrom as a guide and provided with a lateral second port from the cylinder spaced from the first port by a region in said cylinder, a plunger directed by said guide in its movement to open and close said second port, and a spring normally urging the plunger to shut off communication between said ports.

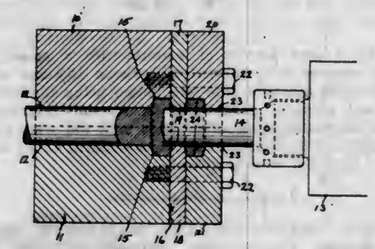


1,691,877. VACUUM-TUBE SOCKET. MILTON ALDEN, Springfield, Mass., assignor to Alden Manufacturing Company, Brockton, Mass., a Corporation of Massachusetts. Filed June 11, 1926. Serial No. 115,381. 8 Claims. (Cl. 173—328.)



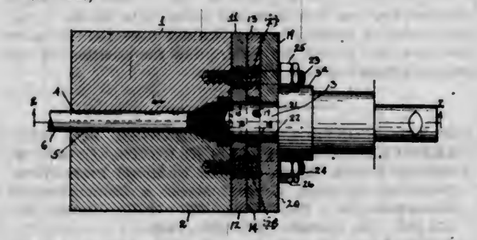
1. A socket construction comprising two plates secured together flatwise and having registering apertures for the pin of a tube, one of said plates having a recess at one edge of its aperture and a spring contact strip having a shank clamped between said plates, an arched portion located in said recess, and a contact tip portion having its free end extending into one of the apertures.

1,691,878. METAL WORKING. JOHN R. BLAKESLEE, Cleveland, Ohio, assignor to The Ajax Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 11, 1923. Serial No. 656,881. 2 Claims. (Cl. 78—61.)



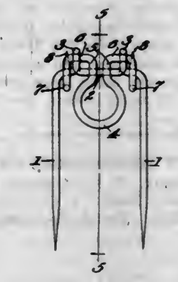
1. In a mechanism of the character described, the combination of relatively movable dies having complementary gripping recesses of substantially uniform diameter formed in their inner faces, two mutually equal-diametered sets of enlarged gripping recesses of substantially uniform diameter formed at one end of said gripping recesses; a punch plate separating said sets of enlarged recesses; and a punch co-operating with said dies and said punch plate.

1,691,879. FORGING MECHANISM. JOHN R. BLAKESLEE, Cleveland, Ohio, assignor to The Ajax Manufacturing Company, Euclid, Ohio, a Corporation of Ohio. Filed Apr. 5, 1924. Serial No. 704,368. 3 Claims. (Cl. 78—61.)



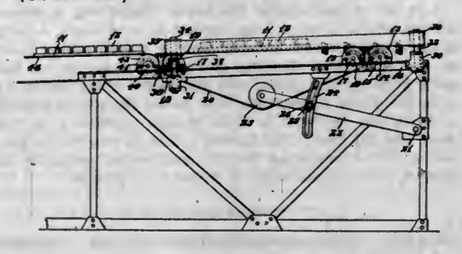
1. In mechanism of the character described, the combination of relatively movable die-members having complementary recesses formed in their juxtaposed faces adapted to fit around a stock bar, and two sets of enlarged recesses at the forward end of such first-named recesses, such enlarged recesses having approximately the shape of the article desired; plates movable towards and from the forward faces of said die-members and forming one confining wall for the adjacent set of enlarged recesses; and a punch co-operating with said die-members and carrying a collar adapted to engage said plates and force the same against said die-members.

1,691,880. HINGED-PIN FASTENER. GEORGE BODEN and GEORGE A. KING, Waterbury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 8, 1928. Serial No. 260,104. 5 Claims. (Cl. 24—150.)



1. A snap fastener element comprising a resilient socket member provided with the pintle members of a hinge, and a double-pointed pin having a head provided with eyes serving as knuckles in which the socket member by means of its pintle members is hingedly mounted.

1,691,881. OFF-BEARING CONVEYER. CLAUD E. FULLER, New York, N. Y., assignor to New York Brick Handling Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 18, 1927. Serial No. 176,493. 1 Claim. (Cl. 198—19.)



In an improved conveying apparatus, the combination with a feeding conveyer, of a take off belt associated therewith, said take off belt being inclined and with a portion adjacent the feeding conveyer higher than the delivery end thereof and an elevated platform arranged adjacent and parallel to the take off belt, said elevated platform lying parallel to the upper reach of the take off belt.

1,691,882. PROCESS OF PRODUCING THICKENED LUBRICATING OIL. ROBERT W. HENRY, Port Arthur, Tex., and ELFORD D. STREETER, Bayonne, N. J., assignors to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Mar. 24, 1926. Serial No. 97,116. 7 Claims. (Cl. 87—9.)

6. The process of preparing a thickener for mineral castor oils which comprises making a basic aluminum soap and a less basic aluminum soap, and mixing to form a product of the desired fatty acid to aluminum ratio.

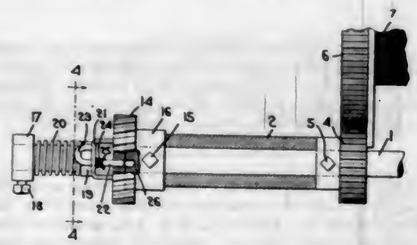
1,691,883. BANK-SCREEN-LIGHTING DEVICE. PAUL M. HOTCHKIN, Chicago, Ill., assignor to Curtis Lighting, Incorporated, Chicago, Ill., a Corporation of Illinois. Filed June 19, 1923. Serial No. 646,377. 16 Claims. (Cl. 240—4.)



1. A fixture of the class described, comprising front and rear walls, end caps into which said front and rear walls are fitted, the lower edges of the front and rear walls affording an opening at the bottom of the fixture, light-transmitting panels arranged at said opening for closing the same, a mullion arranged intermediate the end caps and affording support for the front and rear walls intermediate of the end caps, the adjacent ends of the light-transmitting panels being supported by said mullion, and illuminating units within the fixture.

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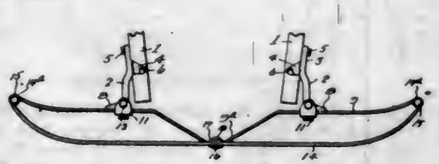
1,691,884. LET-OFF MECHANISM FOR LOOMS. IVEY O. HUCKS, Rosemary, N. C., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 14, 1927. Serial No. 226,105. 3 Claims. (Cl. 139—110.)



1. A let-off mechanism for looms comprising a transmitting shaft, a warp beam geared to said shaft, a pair of spaced collars fast on said shaft, a driven pinion loose on the shaft and abutting one collar, a spring on the shaft between the pinion and the other collar acting to force the pinion against the first collar, the pinion having a clutch pin mounted to slide therein parallel with the shaft and the first collar having a hole to receive the pin, and a spring engaging the pin and acting normally to force it into, and maintain it seated in, said hole.

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1,691,885. BUMPER-SUPPORTING MEANS. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring and Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Sept. 7, 1926. Serial No. 134,051. 9 Claims. (Cl. 293—55.)



6. The combination, with a bumper bar, of a support arm therefor, said arm having an eye in its outer end portion and having a lateral extension adapted to engage the adjacent face of the bumper bar and provide an elongated or extended bearing therefor.

1,691,886. VEHICLE BUMPER. HERBERT S. JANDUS and ROBERT A. FLUM, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Nov. 30, 1927. Serial No. 236,754. 29 Claims. (Cl. 293—55.)



29. A bumper comprising an impact section including a pair of bars having vertically spaced portions, a reinforcing bar adapted to be connected at its end and middle portions to said impact section, said reinforcing bar having folded end connectors with apertures therein, and means passing through said apertures for clamping said bars together.

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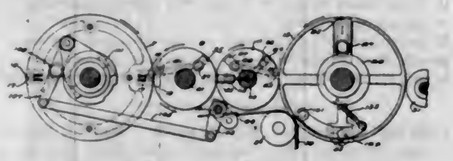
1,691,887. YARN-CUTTING MEANS FOR KNITTING MACHINES. HOWARD W. MATTHEWS, Lansdale, Pa., assignor to Dexdale Hosiery Mills, Lansdale, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1926. Serial No. 143,330. 6 Claims. (Cl. 66—107.)



6. As a new article of manufacture a special web holder adapted for co-operation between adjacent needles of a knitting machine, said web holder being characterized by a web engaging notch with an overshot retaining nib and a projection upstanding from said nib with a knife edge adapted for cutting float yarn incident to an inward thrust imparted to said holder.

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1,691,888. SHEET-HANDLING MECHANISM. OTTO C. F. MEISEL, Boston, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 25, 1926. Serial No. 131,368. 19 Claims. (Cl. 270—47.)



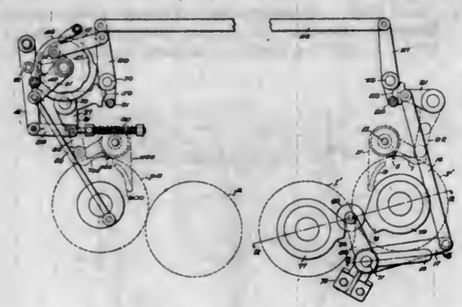
1. In a sheet handling mechanism a cylinder having a reciprocating pin-carrying rod therein and a plunger movable towards and from the center line of the cylinder having a surface acting against said rod to move the same and a cam for controlling the position of the plunger relative to such center line.

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1,691,889. CONTROLLING MECHANISM FOR SUCCESSIVELY-ACTING PRINTING UNITS. OTTO C. F. MEISEL, Boston, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 25, 1926. Serial No. 131,369. 23 Claims. (Cl. 101—76.)

1. In combination with a pair of successive printing couples each having a periodically actuated mechanism associated therewith and a cam for actuating the mechanism, means to throw off the cam for one couple, a device for throwing off the cam of the second couple, mechanism for driving the same in timed relation to move-

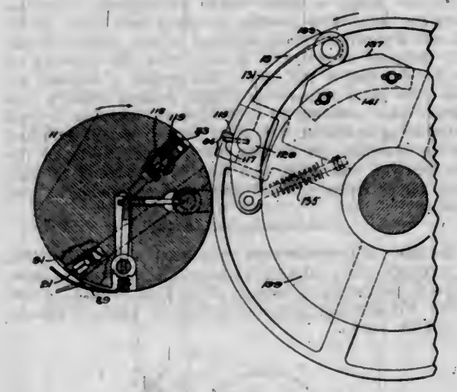




ment of the couples and means actuated from said first throw-off means to render such driving mechanism effective.

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1,691,890. TUCKER. OTTO C. F. MEISEL, Boston, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Original application filed Aug. 25, 1926, Serial No. 131,368. Divided and this application filed Dec. 20, 1927. Serial No. 241,371. 2 Claims. (Cl. 270—71.)

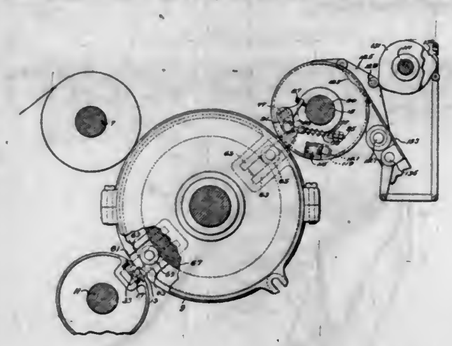


1. In combination with a tucker blade a carrier therefor having a slot wider than the thickness of the blade, the blade being held therein at its inner part spaced from a wall of the slot, and yielding means supporting the blade away from said wall.

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1,691,891. SHEET-HANDLING MECHANISM. CHARLES A. MEISEL, Milton, Mass., assignor to Meisel Press Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1927. Serial No. 172,004. 4 Claims. (Cl. 270—60.)

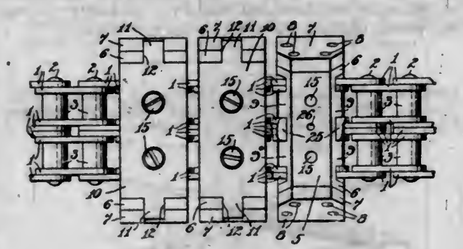
1. In paper handling mechanism, an accumulating cylinder having reciprocating pins, a rock shaft longitudinal of the cylinder connected to said pins to reciprocate the same, a lever on the rock shaft at one end of the cylinder, a second rock shaft longitudinal of the cylinder, stripper arms carried thereby, a lever on the said second shaft at



the other end of the cylinder, followers on said levers, swinging arms cooperating therewith and a shaft adjacent the cylinder having cams for positioning said arms.

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1,691,892. TRANSMISSION BELT. PAUL B. REEVES, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a Corporation of Indiana. Filed Mar. 5, 1926. Serial No. 92,393. 8 Claims. (Cl. 74—64.)



1. A drive belt comprising an endless series of pivotally connected links the pivotal bearing points of which are in axial alignment, two series of friction faces arranged in the edges of said belt, thrust receiving bridge members transversely spanning the tops and bottom of said links and having the friction faces secured thereto and means independent of said links for directly securing said bridge members to the pivots of said links.

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1,691,893. SAFETY LOCK. SVEN J. STRID, Chicago, Ill., assignor, by mesne assignments, to E. Payson Smith, Chicago, Ill. Filed Sept. 10, 1926. Serial No. 134,618. 3 Claims. (Cl. 85—5.)



2. A pin lock comprising a sheet metal member having a slot therein and the metal within said slot struck up to

form an integral bendable tongue, the metal defining said slot at opposite sides being corrugated diagonally to foreshorten said member and stiffen the side walls against longitudinal bending.

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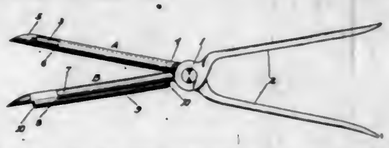
1,691,894. OVERSHOE. HERMAN WESTLING, Watertown, Mass. Filed Jan. 19, 1928. Serial No. 247,772. 3 Claims. (Cl. 36—5.)



1. An overshoe having a bellows top, two straps secured to the ankle portion of said top at opposite sides of the bellows portion thereof, said straps extending diagonally across the front of the overshoe and downwardly from the points at which they are secured to the overshoe and crossing each other approximately opposite the central part of the ankle, and fastening means for releasably securing said straps together where they cross each other.

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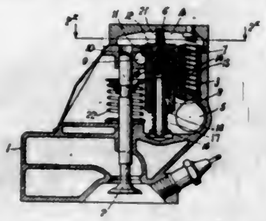
1,691,895. MARCEL IRON. DELBERT J. MARTIN, Sacramento, Calif. Filed Mar. 28, 1928. Serial No. 265,296. 3 Claims. (Cl. 132—32.)



1. A hair curling iron including a pair of cooperating jaws between which the hair to be curled is passed, means for moving the jaws into close relationship with each other, and means provided with the jaws for clamping engagement with the individual hairs when pressure is exerted against the jaws to tightly close the same.

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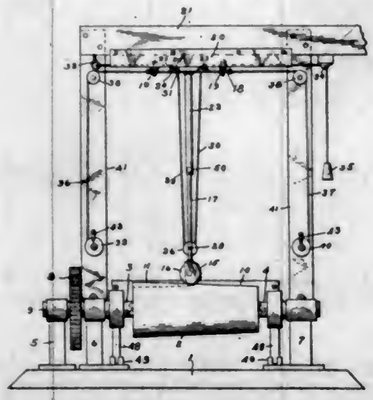
1,691,896. HYDRAULIC ACTUATING MEANS. WARREN NOBLE and LEON V. PITTMAN, Detroit, Mich.; said Pittman assignor to said Noble. Filed Apr. 11, 1927. Serial No. 182,667. 18 Claims. (Cl. 123—90.)



1. Means for bleeding air from a hydraulic fluid casing wherein fluid is subjected to pulsating pressure, comprising an outlet valve opening from a region of air accumulation in said casing, said valve being normally closed, a fluid supply manifold having a passageway to said casing, and valve-unseating means sensitive to pressure in the manifold in excess of that in said casing.

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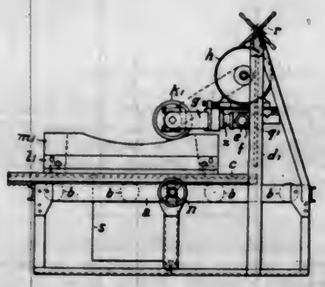
1,691,897. VENEER-LOG-SCORING MECHANISM. HENRY C. BREIDENBACH, Dayton, Ohio. Filed Nov. 17, 1926. Serial No. 148,881. 1 Claim. (Cl. 143—47.)



In a scoring device for veneer forming material, a circular saw, a motor for supporting and driving said saw, a hollow rod supporting said motor, said rod having a transverse slot through its walls adjacent its juncture with the motor, a hollow sleeve telescopically receiving said rod, a movable carriage to which said sleeve is attached, a sheave pivotally mounted in said transverse slot the diameter of which is greater than the diameter of said rod, whereby the sheave will project a distance beyond the walls of the rod, a cable passing beneath said sheave and upwardly to said carriage, one end of said cable being anchored, a counter balance weight attached to the opposite end of said cable, guide wheels on the carriage for said cable, and feed wires passing through said hollow sleeve and rod and being collapsible in said sleeve.

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1,691,898. MACHINE FOR SHAPING AND GRINDING STONES FOR BLAST FURNACES. WILHELM KOSFELD, Dortmund, Germany. Filed Jan. 20, 1927, Serial No. 162,402, and in Germany Nov. 16, 1925. 2 Claims. (Cl. 51—100.)

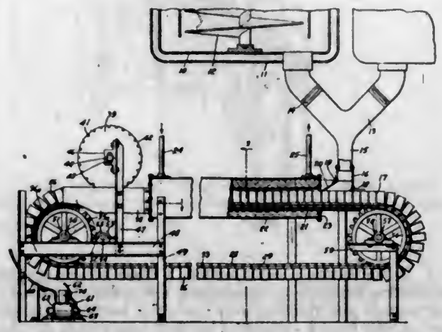


1. A machine for automatically shaping stones and the like comprising a bed for the article to be shaped, a grinding roller above the bed, said bed and said roller being relatively movable in the direction of the longitudinal axis of the machine, means for supporting the grinding roller, said means including means permitting rising and falling movement of the roller and means permitting tilting of the roller, templates mounted upon the bed, means movable with the roller in its up and down and tilting movements and cooperating with the templates to cause any predetermined rising and falling and tilting movement thereof, and means for rotating the grinding roller.



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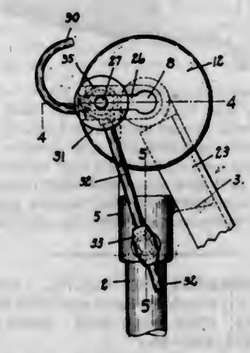
1,691,899. SOAP-MOLDING APPARATUS. LEWIS A. PALEY, Manhasset, N. Y. Filed Mar. 23, 1922. Serial No. 546,089. 14 Claims. (Cl. 18—26.)



1. In an apparatus for the manufacture of soap and the like, an endless chain of molds, the side wall of each mold also serving as a side wall of an adjacent mold, the bottom of each mold being removable and secured to the side wall of the adjacent mold, means for pivotally connecting said molds, a pair of flexible wings associated with each mold adapted to form end walls for each mold, a plurality of sprocket wheels adapted to receive said endless chain of molds, means for rotating one of said sprocket wheels so as to cause a continuous movement of said endless chain of molds, means for introducing hot liquid soap into said chain of molds, means for cooling the soap in said endless chain of molds as said chain is moved, so as to form cakes, means for stamping said cakes of soap in said molds after they are cooled, and means for discharging said cooled cakes of soap from said molds.

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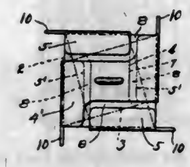
1,691,900. EXERCISING MACHINE. WILLIAM STUEBING, Jr., Cincinnati, Ohio. Filed Jan. 14, 1927. Serial No. 161,108. 2 Claims. (Cl. 128—63.)



1. In an exercising machine, hook supports, means for moving each of said hook supports in a circular path, a hook carried by each support, a rod fixed to each support, sleeves through which the rods slide, and mounting means for the sleeves permitting the latter to rock about fixed axes.

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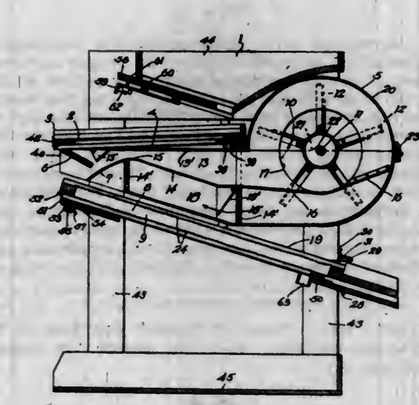
1,691,901. ELECTRICAL CONDENSER. ALEXANDER NYMAN, New York, N. W., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1926. Serial No. 93,914. 4 Claims. (Cl. 175—41.)



3. A condenser comprising a stack containing conductive elements of opposite polarity, sheets of insulating material separating said conductive elements, the elements of one polarity projecting from the sides of the stack adjacent diagonally opposite corners and the elements of opposite polarity being arranged transversely of the first-named conductive elements, and having their ends projecting from the stack adjacent diagonally opposite corners; and clamping members for the opposite faces of the stack, each of said members engaging the projecting ends of the conductive elements of one polarity, whereby the condenser can be connected into circuit through said clamps.

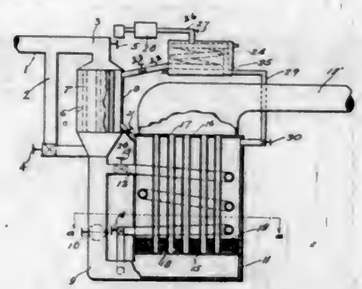
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1,691,902. GRAIN AND SEED CLEANER. JOHN H. PENNY, Fountain City, Ind. Filed Mar. 5, 1927. Serial No. 173,064. 10 Claims. (Cl. 209—318.)



1. In a grain and seed cleaner, upper and lower vibratory shoes having screens, a transverse drum having at one end thereof an air inlet chamber and at the opposite end a fan chamber horizontally and transversely aligned and communicating therewith, a longitudinal air duct located between said shoes and having its mouth adjacent the approximated ends of said shoes, and at its inner end communicating with said air inlet chamber, and a fan located in said fan chamber, the latter having a discharge passage located between said shoes and discharging laterally of the machine.

1,691,903. PROCESS FOR PERFORMING CHEMICAL REACTIONS. CHARLES W. MORTIMER, Brooklyn, N. Y. Filed Apr. 17, 1923. Serial No. 632,620. 5 Claims. (Cl. 260—172.)



1. In a process for utilizing the heat generated in exothermic catalytic reactions between gases in which the reaction temperature is regulated by the boiling point of a liquid; the steps which comprise dividing the vapor of said liquid, dividing the incoming gases, heating a portion of the incoming gases with one portion of the vapor and separately condensing the other portion of the vapor.

1,691,904. COLLAPSIBLE HAT BAG. HELEN C. GAMBLE, New York, N. Y. Filed Nov. 24, 1921. Serial No. 517,420. 17 Claims. (Cl. 206—8.)



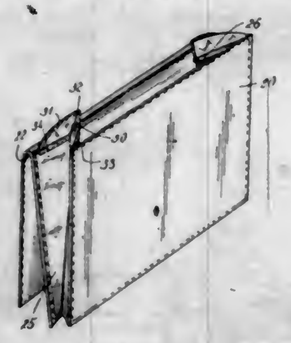
1. An envelope of the character described comprising a peripheral band and a circular side, said circular side being formed of non-self-sustaining material, a portion of the material of said circular side forming a closure flap having a free edge extending from a location adjacent said peripheral band to another location adjacent said peripheral band, stiffening means secured to said peripheral band, said stiffening means extending longitudinally and transversely relative to said peripheral band, and means for suspending said envelope in its closed and distended position, said means including an element secured to said closure flap between the ends of the free edge of said closure flap and a series of fasteners mounted adjacent the free edge of said closure flap.

1,691,905. BAG. HELEN C. GAMBLE, New York, N. Y. Filed Dec. 15, 1922. Serial No. 607,050. 23 Claims. (Cl. 206—8.)



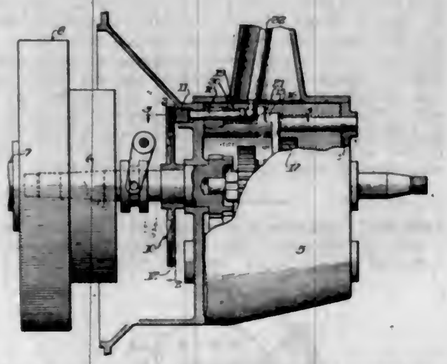
23. A hand bag of the character described comprising a peripheral band, flexible disk sides seamed at their edges to the edges of said band, a portion of the material of one of said sides forming a closure flap, and a handle comprising a strap secured at its one end at one side of the bag and a second strap secured at its one end to an opposite side of the bag, and means on the free ends of said handle straps for detachably securing them to one another.

1,691,906. BAG. AARON LEFKOWITZ, by judicial change of name Aaron Landis, New York, N. Y. Filed June 16, 1927. Serial No. 199,259. 9 Claims. (Cl. 150—30.)



1. A bag having a back section, a front section, gussets connecting the ends of the sections, and a flap connected to one section and foldable over the other section, said gussets having hinged extensions at their upper ends for closing the space beneath the flap.

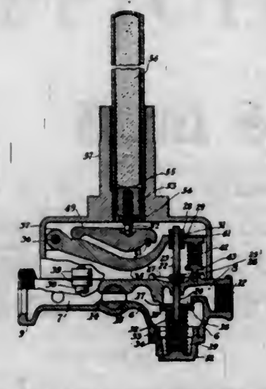
1,691,907. REVERSE BRAKE. MARTIN A. MIKESH, Jersey City, N. J. Filed July 18, 1927. Serial No. 206,485. 12 Claims. (Cl. 192—4.)



2. In an automobile, a transmission lever, a transmission shaft, a braking disk fixed on said shaft, said disk having radial corrugations formed therein, a braking member for engaging said disk, said disk and said member having cam surfaces engaging each other which tend to force said member away from said disk when said disk rotates in either direction, and means between said member and said lever whereby said member may be moved by said lever.

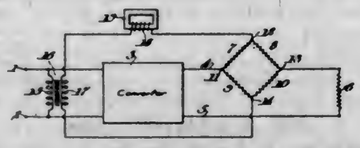
1,691,908. THERMOSTATIC VALVE. ADOLF BELER, Pittsburgh, Pa.; Elizabeth Beler executrix of said Adolf Beler, deceased. Filed Apr. 5, 1923. Serial No. 630,019. 10 Claims. (Cl. 236—48.)

1. A thermostatic valve comprising a valve for controlling the delivery of a heating agent, a spring for normally yieldingly closing the valve, a thermal responsive means having a lost-motion connection to the said valve for actuating the valve, a spring for normally yieldingly retaining the thermal responsive means in retracted position, and an



over center spring for actuating the valve with a snap action in response to a predetermined movement of the thermal-responsive means.

1,691,909. VOLTAGE REGULATOR. GEORGE B. CROUSE, Woodcliff, and JACOB L. JATLOW, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1926. Serial No. 134,249. 21 Claims. (Cl. 175—363.)



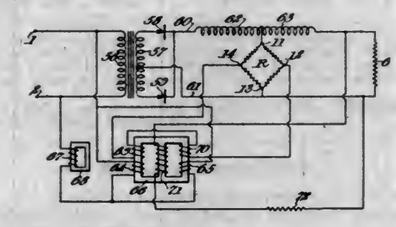
1. In a voltage regulator for electrical systems comprising a source of energy, a load line, and circuit elements for energizing said load line from said source, the combination of a static resistance included in said circuit elements, and a circuit additional to said circuit elements for delivering a current to said static resistance to directly effect regulation by the potential across said resistance, said additional circuit being so coupled with said circuit elements that the voltage of said additional circuit varies automatically with variations of an electrical condition which tends to alter the voltage across said load line.

14. A voltage regulator for an electrical system of the type including a converter connected between a source of alternating current and a load, comprising an element connected in series between the converter and the load and



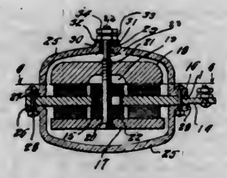
means for varying the voltage drop across the element in accordance with voltage variations of the source, said element also preventing the introduction into the load circuit of alternating components from the source.

1,691,910. VOLTAGE REGULATOR. GEORGE B. CROUSE, Woodcliff, and JACOB L. JATLOW, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y., a Corporation of New York. Original application filed Sept. 8, 1926, Serial No. 134,249. Divided and this application filed Sept. 15, 1926. Serial No. 135,691. 22 Claims. (Cl. 175—363.)



1. A voltage regulator for an electrical system of the type including a line and a filter having a resistance as one element thereof, characterized by the fact that a regulating circuit is provided across said resistance to determine the effective voltage drop to which line current is subjected on passage through said resistance.

1,691,911. ELECTRICAL CONDENSER. HARRY R. VAN DEVENTER, New York, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 11, 1925. Serial No. 14,814. 10 Claims. (Cl. 175—41.)



10. In a condenser, a circular plate, housings on the opposite faces of the plate, the plate carrying a terminal, condenser sections mounted upon opposite sides of the plate within the housings, means for compressing the condenser sections upon the plate, one of the housings having an aperture, and a terminal associated with the compression means projecting through said aperture.

Patents Nos. 1,691,912 to 1,692,801.

THE

# OFFICIAL GAZETTE

OF THE

# United States Patent Office.

Vol. 376—No. 3. TUESDAY, NOVEMBER 20, 1928. Price—$10 per year.

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## Issue of November 20, 1928.

| | | | |
|---|---|---|---|
| Trade-Marks | 379—No. | 340,544 to No. | 340,922, inclusive. |
| T. M. Renewals | 11 | | |
| Labels | 39—No. | 34,949 to No. | 34,987, inclusive. |
| Prints | 7—No. | 11,334 to No. | 11,340, inclusive. |
| Reissues | 8—No. | 17,137 to No. | 17,144, inclusive. |
| Designs | 66—No. | 76,908 to No. | 76,973, inclusive. |
| Patents | 860—No. | 1,691,912 to No. | 1,692,801, inclusive. |
| Total | 1,400 | | |

## International Convention—Adhesion.

### Kingdom of the Serbs, Croats, and Slovenes.

This Office has been notified by the Secretary of State of the receipt of a notice from the Swiss Legation that the Kingdom of the Serbs, Croats, and Slovenes has adhered to the Convention of the Union for the Protection of Industrial Property, as revised at The Hague November 6, 1925, the adhesion to take effect October 29, 1928.

THOMAS E. ROBERTSON,
*Commissioner of Patents.*

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,540,631, A. E. Johnson, Controller for hoisting engines, decided October 16, 1928, claim 10.

Pat. 1,565,364, J. C. Henderson, Drawing sheet glass, decided October 13, 1928, claims 1 to 5, inclusive.

Pat. 1,589,925, R. R. Batcher, Radio receiving apparatus, decided October 10, 1928, claims 1, 2, 3, and 4.

## Notices of Cancellation.

U. S. Patent Office, *Washington, Nov. 5, 1928.*

*Frederick Edward Vesey Baines, his assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Frederick Edward Vesey Baines, of 2 Orchard Road, Blackheath, county of Kent, England, No. 70,762, dated October 6, 1908, and the notice of such proceeding sent by registered mail to the said Frederick Edward Vesey Baines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Frederick Edward Vesey Baines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. Patent Office, *Washington, Oct. 19, 1928.*

*United States Compound Company, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of United States Compound Company, of 1426 Seneca St., Buffalo, N. Y., No. 89,162, dated November 12, 1912, and the notice of such proceeding sent by registered mail to the said United States Compound Company at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said United States Compound Company, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. Patent Office, *Washington, Oct. 19, 1928.*

*Murray Wire Co., its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Murray Wire Co., of Newark, N. J., No. 94,658, dated December 23, 1913, and the notice of such proceeding sent by registered mail to the said Murray Wire Co. at the said address having been returned by the post office as undeliverable, notice is hereby given that unless the said Murray Wire Co., its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications Under Examination at Close of Business November 9, 1928.

| Room No. | (Total number of applications awaiting action, excluding Trade-Mark Division, 110,436; Trade-Mark Division, 1,910. Oldest new case, Jan. 10, 1923; oldest amended, Jan. 14, 1928. The dates given are 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Mar. 1 | Mar. 7 | 1,545 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 10 | Mar. 13 | 1,633 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Mar. 1 | Mar. 26 | 1,371 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Feb. 3 | Feb. 4 | 1,524 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 7 | Feb. 8 | 1,508 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Feb. 2 | Feb. 4 | 2,528 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Feb. 1 | Feb. 1 | 1,929 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 10 | Apr. 16 | 1,604 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Apr. 9 | Apr. 2 | 1,778 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Mar. 2 | Mar. 26 | 1,738 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | May 10 | May 16 | 881 |
| 380 | 12. PIERCE, P. P., Machine Elements | Mar. 1 | Feb. 17 | 1,922 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Mar. 2 | Mar. 1 | 1,509 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Feb. 10 | Feb. 11 | 1,163 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Jan. 26 | Feb. 4 | 2,695 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 8 | Mar. 24 | 1,215 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Feb. 9 | Mar. 3 | 1,431 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Jan. 20 | Jan. 23 | 1,607 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Mar. 5 | Mar. 8 | 1,918 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking | May 3 | May 10 | 1,398 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Feb. 16 | Mar. 8 | 1,026 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Jan. 28 | Feb. 1 | 1,604 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders, Registers | Jan. 10 | Jan. 14 | 1,133 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Feb. 14 | Feb. 23 | 1,542 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Mar. 9 | Mar. 14 | 1,659 |
| 228* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Mar. 8 | Mar. 9 | 1,178 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 5 | Apr. 7 | 1,478 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 15 | Mar. 15 | 1,823 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Mar. 10 | Mar. 13 | 1,066 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Feb. 10 | June 8 | 1,443 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Feb. 28 | Mar. 1 | 2,073 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Feb. 3 | Feb. 1 | 2,086 |
| 152 | 33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | May 25 | June 2 | 1,969 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Jan. 20 | Feb. 6 | 1,343 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 11 | May 15 | 1,659 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring | Mar. 22 | Mar. 16 | 2,067 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 12 | Feb. 4 | 2,371 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Mar. 30 | Mar. 29 | 1,885 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Feb. 4 | Feb. 6 | 1,911 |
| 202* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Feb. 16 | Mar. 26 | 2,746 |
| 125 | 41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 1 | Feb. 29 | 1,421 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Jan. 24 | Mar. 6 | 1,564 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 16 | Mar. 28 | 2,153 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Feb. 23 | Feb. 27 | 2,025 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Feb. 1 | Mar. 2 | 2,460 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 11 | Feb. 13 | 1,810 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 2 | Mar. 10 | 1,991 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Feb. 27 | Feb. 17 | 1,566 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Mar. 14 | Mar. 26 | 1,475 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Mar. 2 | Mar. 7 | 2,549 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 11 | Feb. 15 | 2,251 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Mar. 14 | Mar. 17 | 2,247 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | Apr. 21 | Apr. 21 | 1,771 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Feb. 15 | Feb. 20 | 2,382 |
| 102 | 55. BOWEN, S. T. { Bread, Pastry, and Confection Making; Cutlery | Feb. 26 | Feb. 27 | 784 |
| | { Designs | Oct. 10 | Oct. 24 | 478 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Jan. 14 | Jan. 14 | 2,462 |
| 257* | 57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Mar. 5 | Feb. 9 | 1,133 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Jan. 13 | Jan. 14 | 1,382 |
| 315 | 59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 18 | Jan. 18 | 2,791 |
| 213* | 60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Jan. 30 | Feb. 10 | 1,703 |
| 269 | 61. PARKS, C. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 2 | Feb. 3 | 2,220 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Jan. 30 | Mar. 6 | 2,749 |
| 163 | TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND { Trade-Marks | Oct. 10 | Oct. 27 | 1,759 |
| | { Labels and Prints | Oct. 13 | Oct. 31 | 151 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decision.

### EX PARTE ELLIS.

*Decided March 30, 1927.*

1. PATENTABILITY—INVENTION—SOLUTION OF PHENOL-SULPHUR-HALIDE RESIN.

A claim broadly drawn to a solution of phenol-sulphur-halide resin in a composite solvent embracing a plurality of liquids *Held* not patentably distinguished from the prior art by the statement that "one at least" of the liquids is a nonsolvent of the resin since "there is nothing of record to show that the solution defined by the claim possesses properties or characteristics different from the solutions disclosed by McCoy. To merely mix with the McCoy solvents a liquid nonsolvent of his resin, obviously is a noninventive act."

2. SAME—SAME—LIQUID COATING COMPOSITIONS.

A claim drawn broadly to a liquid coating composition containing a resinous body which contains sulphur *Held* not patentably distinguished from the prior art by functional statements respecting the resistant properties of the composition to certain specified chemicals, since "the McCoy composition being the same their resistant properties must be the same."

[This application has resulted in Patent No. 1,663,160.]

APPEAL from Examiners in Chief.

Application for patent for coating and impregnating medium filed December 7, 1920, Serial No. 428,852.

*Mr. A. B. Foster* for the appellant.

MOORE, *Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the decison of the Examiner finally rejecting claims 1, 2, 4, 13, 14, and 15.

The invention relates to a composition of matter adapted for coating purposes.

Claims 1 and 13 are examples of the appealed claims:

1. A solution of phenol-sulphur-halide resin in a composite solvent, such solvent embracing a plurality of liquids one at least of which is a nonsolvent of such resin.

13. A liquid coating composition containing a resinous body which contains sulphur, such coating composition when applied to a base and dried, producing a coating which is resistant to strong sulphuric and hydrochloric acids, and resistant to ammonia and to sodium carbonate and to soapy detergents.

The references relied upon in the rejection of the claims are: McCoy, No. 1,194,201, August 8, 1916; Pratt, No. 1,340,909, August 17, 1920.

The McCoy patent is the reference principally relied upon in the rejection of the appealed claims.

A comparison of the McCoy and Ellis inventions shows that broadly considered they are identical. Both include a resinous base formed by reacting on a phenol with sulphur chloride, and a solvent.

The resinous base, which is the essential element of the appellant's composition, was invented by McCoy, so far as appears of record. McCoy states:

I have discovered sulphur chloride will react upon phenol or its homologues to form products that may be transformed into resinous substances * * *.

Claim 8 of the McCoy patent is drawn broadly to such a substance.

Both inventors discovered that the reaction between phenol and sulphur chloride is extremely violent, making it desirable to add a solvent. The appellant states:

The violence of the reaction is reduced by adding a solvent such as benzol to the sulphur chloride.

McCoy states:

However, the reaction between phenol and the sulphur chloride is extremely violent and rapid and I prefer to moderate its action by the use of an oil or fat or other suitable means.

McCoy states, however:

Furthermore, I may react directly upon phenol with sulphur chloride, either with or without the use of a suitable solvent, such as carbon tetra-chloride, for the purpose of moderating the action, to form a resin-like substance which may be redissolved in an excess of phenol * * *.

Both inventors recognize that the properties and qualities of the resinous products may be greatly varied according to their intended use by varying the proportions of the ingredients and the modes of treatment. McCoy states:

Those skilled in the art will readily understand that the manner of treatment and mode of procedure may be widely varied in accordance with the desired characteristics of the intermediate or final products, and such variations which do not depart from the spirit and scope of my invention are intended to be covered in the appended claims.

Neither McCoy nor Ellis has confined his broad claims to any specific proportions of phenol and sulphur chloride in forming resinous substances, nor to any specific solvent.

The Examiner has recognized patentable novelty in the appellant's invention, specifically considered, as evidenced by the allowance of a large number of claims. The question for decision is as to whether the claims on appeal distinguish the appellant's invention in patentable respects from the cited patents.

Claim 1 is drawn broadly to a solution of phenol-sulphur-halide resin in a composite solvent, such solvent embracing a plurality of liquids, one at least of which is a nonsolvent of such resin.

The claim is not confined to any specific proportions of the ingredients forming the resin nor to any specific solvent. The appellant contends that the claim distinguishes the invention patentably from McCoy in the limitations that the solvent embraces a plurality of liquids, and that one at least of the liquids is a nonsolvent of the resin.

This claim is drawn to a solution, but there is nothing of record to show that the solution defined by the claim possesses properties or characteristics different from the solutions disclosed by McCoy. To merely mix with the McCoy solvents a liquid nonsolvent of his resin, obviously is a noninventive act. If the appellant has discovered that by mixing a specific liquid nonsolvent with a specific solvent of the resin defined by this claim a solution having new and desirable properties is obtained, he is entitled to claim either the solution having such new and desirable properties, or a solution having such specific ingredients; but he certainly is not entitled to

claim McCoy's solution with the addition to the solvents therein disclosed of a liquid nonsolvent of the resin. The solution defined by this claim may have the same essential characteristics as McCoy's solution; that is, the liquid nonsolvent may or may not vary materially McCoy's solution.

Claims 2 and 4 also fail to distinguish the invention over McCoy. McCoy discloses a solution comprising both a resin and a solvent, each having the essential characteristics defined by these claims. As pointed out by the Examiner, there is no invention in a solution of resins of this type in the usual solvents or the mixture of such solvents.

Each of the claims 13, 14, and 15 is drawn broadly to:

A liquid coating composition containing a resinous body which contains sulphur.

McCoy discloses a liquid composition "containing a resinous body which contains sulphur," and it is old to use like compositions for coating purposes, as disclosed by Pratt.

The appellant attempts to distinguish his composition from the McCoy composition by certain functional statements respecting the resistant properties of the composition to certain specified chemicals; but the composition defined by these claims and the McCoy composition being the same their resistant properties must be the same. In other words, the appellant's composition "containing a resinous body which contains sulphur," broadly considered, can have no resistant properties not possessed by McCoy's composition containing a resinous body which contains sulphur.

From the above it appears that the appellant is attempting to obtain broad claims on a comparatively limited invention.

The decision of the Examiners in Chief is affirmed.

## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

945,570, J. C. Miller, Ice-cream freezer, D. C., S. D. N. Y., Doc. E 38/130, *The H. H. Miller Industries Co.* v. *Emery Thompson Machine & Supply Co.* Patent held valid and infringed Oct. 5, 1928.

1,010,768, A. S. Isaacs, Heater, D. C., S. D. N. Y., Doc. E 33/241, *The Chamberlin Co. et al.* v. *B. T. Babbitt, Inc.* Dismissed Oct. 3, 1928.

1,012,433, E. Prendergast, Truncated box for street valves, fire plugs, etc., C. C. A., 8th Cir. (St. Louis), Doc. 8001, *The City of St. Louis, Mo.*, v. *E. Prendergast.* Reversed Oct. 4, 1928.

1,018,502, Just & Hanaman, Incandescent body for electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, filed Oct. 10, 1928, D. C., S. D. N. Y., Doc. E 47/16, *General Electric Co.* v. *I. N. Marks et al. (Imperial Merchandising Co.).*

1,022,866, H. M. Norris, Automatic spindle stops; Re. 14,755, same, Friction clutch; 1,058,254, same, Radial drill; 1,140,906, D. C. Klausmeyer, Combined locking and clamping device, D. C., S. D. N. Y., Doc. E 40/180, *The Cincinnati Bickford Tool Co.* v. *Morey & Co.* Consent decree for plaintiff Oct. 4, 1928.

1,041,748, G. Dalen, Automatic valve, filed Oct. 2, 1928, D. C., S. D. N. Y., Doc. E 46/394, *American Gasaccumulator Co.* v. *Interflash Signal Corp.*

1,046,615, T. F. Litaker, Drill, D. C., S. D. Calif. (Los Angeles), Doc. E H-36-J, *Rotary Disc Bit Co.* v. *U. S. Tool Co.* Dismissed Oct. 5, 1928, Doc. K-77-H, *Rotary Disc Bit Co.* v. *Craig Oil Tool Co.* Dismissed Oct. 5, 1928.

1,055,351, O. E. Pease, Awning support, filed Oct. 2, 1928, D. C., S. D. N. Y., Doc. E 46/395, *F. J. Kloes, Inc.*, v. *B. Epstein et al.*

1,058,254. (See 1,022,866.)

1,082,933, W. D. Coolidge, Tungsten and method of making same, C. C. A., 3d Cir., Doc. 3654, *General Electric Co.* v. *The De Forest Radio Co. et al.* Claims 14, 16, 24, 26, 27, and 28 held invalid, claims 1 to 7, incl., 9 to 12, incl., 17 to 23, incl., held valid and infringed Sept. 18, 1928.

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, D. C., S. D. N. Y., Doc. E 40/40, *W. S. Ferguson et al.* v. *The City of New York.* Dismissed without prejudice Oct. 10, 1928.

1,111,638, G. A. Landenberger, Stocking, filed Oct. 2, 1928, D. C., S. D. N. Y., Doc. E 46/396, *Gotham Silk Hosiery Co., Inc.*, v. *Holeproof Hosiery Co.*

1,140,906. (See 1,022,866.)

1,180,159. (See 1,018,502.)

1,218,880, J. E. McGinness, Heating apparatus, D. C., W. D. N. Y., Doc. 1142-F, *The Buckeye Blower Co.* v. *Arensmeyer, Warnock & Jahrndt, Inc.* Decree for defendant Oct. 5, 1928.

1,225,682, J. Schulde, Show-case refrigerator; 1,447,733, same, Refrigerator, appeal filed Sept. 29, 1928, C. C. A., 8th Cir. (St. Louis), Doc. 8362, *Eskimo Refrigerator Co. et al.* v. *H. L. Hussmann Refrigerator & Supply Co.*

1,231,764, F. Lowenstein, Telephone relay; 1,456,528, H. A. Arnold, Electric discharge device; 1,459,412, A. McNicolson, Thermionic translating device, filed Oct. 8, 1928, D. C., S. D. N. Y., Doc. E 47/3, *Radio Corp. of America et al.* v. *H. Chirelstein (Sonatron Tube Co.).*

1,274,410, A. A. Griswold, Flexible shingle, appeal filed Oct. 11, 1928, C. C. A., 2d Cir., Doc.— *Griswold et al.* v. *Buckle Proof Shingle Co., Inc.*

1,307,733, A. V. Guilborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Sept. 27, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O-46-M, *The Bassick Mfg. Co.* v. *W. H. Nielsen.* Doc. E O-47-M, *The Bassick Mfg. Co.* v. *D. B. Kilpatrick,* Doc. E O-48-M, *The Bassick Mfg. Co.* v. *P. G. Wagner.* Doc. E O-49-M, *The Bassick Mfg. Co.* v. *Curtis & Christensen, Inc.*

1,307,734. (See 1,307,733 and Re. 14,667.)

1,354,027, E. V. Crowell, Gas-energy control head for oil wells; 1,482,674, same, Gas-energy control for flowing oil or gas wells, D. C., S. D. Calif. (Los Angeles), Doc. E L-54-M, *E. V. Crowell* v. *Pacific Oil Tool Co. et al.* Dismissed Oct. 4, 1928.

1,377,361, E. L. Miller, Timer brush, D. C., S. D. Iowa (Council Bluffs), Doc. E 4156, *E. L. Miller* v. *G. M. Gilliland et al.* Dismissed Oct. 9, 1928.

1,402,067, C. D. Hibbs, Fabric-stripping machine, D. C. Tex. (Fort Worth), Doc. E 517, *Rubber Products Co. et al.* v. *Penbcy Auto Boot Co. et al.* Dismissed Aug. 24, 1928.

1,403,582, W. L. Wright, Closure disk for containers, filed Oct. 10, 1928, D. C., N. D. Ohio, W. Div., Doc. E 928, *Oswego Falls Corp.* v. *Toledo-Baltimore Bottle Cap Co.*

1,431,260, 1,483,522, H. Rosen, Button-making machine; 1,536,530, same, Button, D. C., S. D. N. Y., Doc. E 40/227, *H. Rosen et al.* v. *M. Pearlstein (International Button Co.).* Patents held valid and infringed Oct. 4, 1928.

1,432,674. (See 1,354,027.)

1,447,733. (See 1,225,682.)

1,456,528. (See 1,231,764.)

1,459,412. (See 1,231,764.)

1,477,556, 1,666,057, 1,666,058, 1,666,059, E. Griesinger, Sound-projecting apparatus and method; 1,553,770, same, Apparatus for reproducing, amplifying, and projecting sound waves, filed Oct. 9, 1928, D. C., W. D. N. Y., Doc. 1431-H, *E. Griesinger* v. *Neal, Clark & Neal Co.*

1,483,522. (See 1,431,260.)



1,498,283, T. G. Robinson, Process and apparatus for making button blanks from pearl stock, filed Oct. 1, 1928, D. C., S. D. N. Y., Doc. E 46/390, *T. H. Robinson* v. *Paragon Button Corp.*

1,494,670, Delaney & Rasneor, Separator for flowing oil wells, filed Oct. 6, 1928, D. C., N. D. Tex. (Fort Worth), Doc. E 558, *Water Knockout Co.* v. *The Pure Oil Co.*

1,497,273. (See Re. 15,982.)

1,503,510, A. S. Margason, Windshield for closed motor cars; 1,552,382, Miller & Harvey, Air deflector, filed Oct. 4, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O-52-M, *L. M. Harvey et al.* v. *J. E. Wrightsman (Automobile Glass Co.).*

1,507,826, L. J. Grubman, Sound-producing device for dolls, etc.; 1,588,354, same, Sound-producing device, D. C., S. D. N. Y., Doc. E 38/201, *Voices, Inc.*, v. *Uneeda Doll Co.* Bill dismissed on merits Oct. 6, 1928. Doc. E 38/232, *Voices, Inc.*, v. *Well Made Doll Co.* Decree as above.

1,517,659, F. C. Warne, Disk harrow, filed Feb. 1, 1928, D. C., S. D. Calif. (Los Angeles), Doc. N-33-M, *The Roderick Lean Co.* v. *H. F. Towner.*

1,536,530. (See 1,431,260.)

1,537,708, W. Schottsky, Thermionic vacuum tube, filed Oct. 8, 1928, D. C., S. D. N. Y., Doc. E 47/4, *Radio Corp of America* v. *H. Chirelstein (Sonatron Tube Co.).*

1,539,309, I. S. Goldman, Process of treating fruit, D. C., S. D. Calif. (Los Angeles), Doc. E C-37-M, *I. S. Goldman Co.* v. *W. C. Cook & Co.* Dismissed Sept. 29, 1928.

1,552,382. (See 1,503,510.)

1,553,770. (See 1,477,556.)

1,558,437, I. Langmuir, Electrical discharge apparatus, filed Oct. 8, 1928, D. C., S. D. N. Y., Doc. E 47/2, *Radio Corp. of America et al.* v. *H. Chirelstein (Sonatron Tube Co.).*

1,569,280, W. S. Holdaway, Disk bit, D. C., S. D. Calif. (Los Angeles), Doc. E N-37-J, *H. H. Holdaway et al.* v. *Rotary Disc Bit Co.* Dismissed Oct. 5, 1928.

1,573,341 (a), E. B. Hiatt, Device for packing fruit, D. C., S. D. N. Y., Doc. E 36/397, *Carpenter-Hiatt Sales Co.* v. *F. A. Read, Inc.* Dismissed on merits Sept. 28, 1928.

1,573,341 (b), E. B. Hiatt, Device for packing fruit; 1,593,302, same, Basket liner; 1,603,693, same, Ring packing lid, D. C., W. D. N. Y., Doc. 1051-F, *Carpenter-Hiatt Sales Co.* v. *Alling & Cory, Inc.* Dismissed Oct. 9, 1928.

1,576,135, Corson & Wright, Mechanism for drilling and applying brake-band linings; 1,576,138, A. C. McBride, Brake-band-relining machine, C. C. A., 3d Cir., Doc. 3685, *W. A. Wright et al.* v. *Thermoid Rubber Co.* Claims 10, 11, 18, 19, and 20 of 1,576,138 and claims 6 and 10 of 1,576,135 held invalid Oct. 6, 1928.

1,576,138. (See 1,576,135.)

1,588,354. (See 1,507,826.)

1,593,302. (See 1,573,341 (b).)

1,600,265, W. T. Woods, Well-drilling bit, D. C., S. D. Calif. (Los Angeles), Doc. E L-2-J, *U. S. Tool Co.* v. *Rotary Disc Bit Co.* Dismissed Oct. 5, 1928.

1,603,246, L. Rocke, Method and apparatus for attaching separable fastener tapes, filed Oct. 5, 1928, D. C., S. D. N. Y., Doc. E 46/400, *Hook & Eye Devices Corp.* v. *J. Glover (Glover Brassiere Co.).*

1,603,693. (See 1,573,341 (b).)

1,636,770, Fox & Stark, Thermostatic pilot control system for burners, filed Oct. 1, 1928, D. C., N. D. Ohio, E. Div., Doc. 2672, *The Bryant Heater & Mfg. Co. et al.* v. *B-Line Boiler Co.*

1,646,416, Monckmeier, Automatic thrust bearing, filed July 20, 1928, D. C., S. D. Ind. (Indianapolis), Doc. E 1157, *Ever-Tite Bolt Co. et al* v. *Adjustable Bearing Co.*

1,659,496, Oishei & Hueber, Automatic windshield wiper, filed Oct. 6, 1928, D. C. Nebr. (Omaha), Doc. E 994, *Trico Products Corp.* v. *Jubilee Mfg. Co.*

1,666,057. (See 1,477,556.)

1,666,058. (See 1,477,556.)

1,666,059. (See 1,477,556.)

1,676,485, D. J. Finucane, Leader-pipe strap, filed Oct. 8, 1928, D. C., S. D. N. Y., Doc. E 47/5, *D. J. Finucane* v. *D. Levow.*

Re. 14,667, F. D. Winkley, Lubricating system; 1,307,734, same, Lubricating means, D. C., N. D. Ohio, E. Div., Doc. 1000, *The Bassick Mfg. Co.* v. *The Lyman Mfg. Co. et al.* Claim 7 of 1,307,734 infringed (notice dated Oct. 8, 1928).

Re. 14,755. (See 1,022,866.)

Re. 15,982, M. Hawie, Rustless buckle; 1,497,273, same, Buckle, appeal filed Oct. 1, 1928, C. C. A., 2d Cir., Doc. 10187, *The Hawie Mfg. Co.* v. *The Hathaway Mfg. Co. et al.*

Re. 16,879, E. Mayer, Device for optically measuring light, photometer, D. C., S. D. N. Y., Doc. E 45/360, *Drem Produkte Corp.* v. *C. Hopfen et al.* Consent decree for plaintiff Oct. 2, 1928.

## Adjudicated Patents.

(D. C. N. Y.) McGuinness patent, No. 1,218,880, for unitary heating and ventilating apparatus, *Held* not infringed. *Buckeye Blower Co.* v. *Arensmeyer, Warnock & Zahrndt,* 28 F. (2d) 209.

(D. C. Ohio.) Adams patent, No. 1,133,251, for road grader, claims 5, 6, 9, 12, 15, 20, 22, 23, 26, 31, 32, 35, 38, and 41 *Held* invalid. *Adams* v. *Galion Iron Works & Mfg. Co.*, 28 F. (2d) 225.

(D. C. Del.) Thompson patent, No. 1,429,175, relating to natural-gas gasoline, *Held* invalid. *Carbide & Carbon Chemicals Co.* v. *Phillips Petroleum Co.*, 28 F. (2d) 218.

(D. C. Del.) De Brey patent, No. 1,465,598, for process of making gasoline from natural gas, *Held* invalid. *Id.*

(D. C. Del.) De Brey patent, No. 1,465,599, for process of making gasoline from natural gas, *Held* invalid. *Id.*

(D. C. Del.) Thompson patent, No. 1,523,314, relating to natural-gas gasoline, *Held* invalid. *Id.*

(D. C. Ohio.) Adams reissue patent, No. 16,200, for ditch former, claims 9, 13, and 15 *Held* invalid. *Adams* v. *Galion Iron Works & Mfg. Co.*, 28 F. (2d) 225.

## Changes in Classification.

Order No. 3,085, October 30, 1928, directs:

In *class 81, Tools* (Division 29), abolish the following subclass, with its definition, the patents formerly contained in this subclass having been placed for the most part in class 81, subclass 48, Tweezers, established in this order:

Special
5 Tweezers.

In *class 294, Handling, Hand and Hoist-Line Implements* (Division 1), abolish the following subclasses, with their definitions, the patents formerly contained in subclass 35 having been placed for the most part in class 81, Tools, subclass 48, Tweezers, established in this order, and those formerly contained in subclasses 36-48 having been placed in similarly-entitled subclasses 44-52, in class 81, Tools, established in this order:

35 Tweezers.
36 Pliers and tongs
37 Parallel pivoted rods,
38 Tandem levers,
39 Multiple jaw,
40 Expanding,
41 Locked jaws,
42 Sliding jaw,
43 Crossed handles
44 Adjustable pivot,
45 Pivoted jaw piece,
46 Parallel jaws,
47 Spring pressed,
48 Jaw attachments.

In *Class 81, Tools* (Division 29), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 81, subclass 5, Special, Tweezers, abolished in this order,

and class 294, Handing, Hand and Hoist-Line Implements, subclass 35, Tweezers, abolished in this order:

43 Tweezers.

43. TWEEZERS. Miscellaneous lightly-constructed grasping tools, the arms of which are usually of elastic material, having a tendency to open or close.

Search Classes—
128—SURGERY, subclass 354, Instruments, Tweezers.
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 99, Grapples, Resilient.

In *Class 81, Tools* (Division 29), establish the following subclasses and definitions, the patents contained in these subclasses having been taken from class 294, Handling, Hand and Hoist-Line Implements, subclass 36, Pliers and tongs, and the subclasses indented thereunder, abolished in this order:

44 Pliers and tongs
45 Parallel pivoted rods,
46 Tandem levers,
47 Multiple jaw,
48 Expanding,
49 Locked jaws,
50 Sliding jaw,
51 Crossed handles
51.3 Adjustable pivot,
51.4 Pivoted jaw piece,
51.5 Parallel jaws,
51.6 Spring pressed,
52 Jaw attachments.

44. PLIERS AND TONGS. Tools for holding or manipulating objects, embracing those pincers and grasping devices known in the arts as "pliers" and "tongs."

Note.—Pliers specially constructed for bending are found in this class, subclass 15, and for cutting, in this class, subclass 187, and the subclasses indented thereunder.

Note.—Compare class 294, HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 86, Grapples, and the subclasses indented thereunder.

Search this class, subclass 3, for pliers and tongs specialized to handling particular articles.

Search Classes—
7—COMPOUND TOOLS, subclass 3, Type, Pliers, for pliers combined with cutters or other devices and not classifiable in any single class.
16—MISCELLANEOUS HARDWARE, subclass 116, Handles, Insulated.
29—METAL WORKING, subclass 86.2, Assembling, Pin inserters and removers, Pliers.
32—DENTISTRY, subclass 10, Tools, for pliers specialized to dental use.
86—AMMUNITION AND EXPLOSIVE CHARGE, MAKING, subclass 22, Loading fireworks and bursting charges, Implements, Fuse.
128—SURGERY, subclass 321, Instruments, Forceps, and the subclasses indented thereunder.
140—WIRE WORKING, subclass 121, Joining wire, Implements, Plier type.
152—RESILIENT TIRES AND WHEELS, subclass 27, Tires, Repairing, Tools.
164—CUTTING AND PUNCHING SHEETS AND BARS, appropriate subclasses, for plier structure applied to cutting and punching implements.
218—BUTTON, EYELET, AND RIVET SETTING, subclass 22, Implements, Button, Pliers.
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclasses 3, Miscellaneous compound Implements, Plier or tong type, and 27, Plate and receptacle lifters, and the subclasses indented thereunder.

45. PLIERS AND TONGS, PARALLEL PIVOTED RODS. Parallel rods pivotally related to each other having jaws at one end and offset or cranked handles at the other.

Note.—Compare class 294, HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 30, Plate and receptacle lifters, Pivoted graspers, Axially-extending handle.

Search Class—
294.—HANDLING, HAND AND HOIST-LIKE IMPLEMENTS, subclass 119, Grapples, Pivoted jaws, Crossed levers, Tandem tongs.

46. PLIERS AND TONGS, TANDEM LEVERS. Having a secondary set of levers attached to and operating the primary article-grasping levers.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 119, Grapples, Pivoted jaws, Crossed levers, Tandem tongs.

47. PLIERS AND TONGS, MULTIPLE JAW. Having a plurality of simultaneously-acting jaws, usually to be used selectively.

Note.—Compare class 294, HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 87, Grapples, Multiple object.

48. PLIERS AND TONGS, EXPANDING. The jaws move away from each other in seizing objects.

Search this class, subclass 3, for specialized expanding devices, such as boiler-tube spreaders, piston-ring removers, and the like.

Search Classes—
29—METAL WORKING, subclass 87.1, Assembling, Spring appliers and removers.
42—FIREARMS, subclass 95, Implements, Shell-extracting.
168—FARRIERY, subclass 47, Tools, Hoof and shoe expanders.
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclasses 3, Miscellaneous compound implements, Plier or tong type; 15, Hand bars and hand barrows; and 93, Grapples, Expanding, and the subclasses indented thereunder.

49. PLIERS AND TONGS, LOCKED JAWS. The tool is provided with means for locking the jaws in their closed or operative position.

Search this class, subclasses 18 and 111 and the subclasses indented thereunder.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 3, Miscellaneous compound implements, Plier or tong type.

50. PLIERS AND TONGS, SLIDING JAW. The jaws have a relatively sliding movement, one or both jaws moving on guides.

Note.—Compare class 294, HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 103, Grapples, Fixed and movable jaw.

Search this class, subclass 85, and the subclasses indented thereunder.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclasses 3, Miscellaneous compound implements, Plier or tong type, and 34, Plate and receptacle lifters, sliding graspers.

51. PLIERS AND TONGS, CROSSED HANDLES. The handles cross each other.

Search this class, subclass 79, and the subclasses indented thereunder.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclasses 3, Miscellaneous compound implements, Plier or tong type; 28, Plate and receptacle lifters, Pivoted graspers, and the subclasses indented thereunder; and 106, Grapples, Pivoted jaws, and the subclasses indented thereunder.

51.3. PLIERS AND TONGS, CROSSED HANDLES, ADJUSTABLE PIVOT. The pivots of the handles are movable to adjust the spread of the jaws.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 3, Miscellaneous compound implements, Plier or tong type.

51.4. PLIERS AND TONGS, CROSSED HANDLES, PIVOTED JAW PIECE. One or both jaw carriers have pivoted jaw pieces to enable the tool to fit the surfaces of wedge-shaped or irregular objects.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 3, Miscellaneous compound implements, Plier or tong type.

51.5. PLIERS AND TONGS, CROSSED HANDLES, PARALLEL JAWS. The jaws are parallel in all positions.

Search this class, subclass 50.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 3, Miscellaneous compound implements, Plier or tong type.

51.6. PLIERS AND TONGS, CROSSED HANDLES, SPRING PRESSED. The jaws are pressed by a spring.

Search Class—
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 3, Miscellaneous compound implements, Plier or tong type.

52. PLIERS AND TONGS, JAW ATTACHMENTS. Parts attached to the jaw holders and capable of replacement when worn or when a jaw piece of different type is desired.

## Changes in Classification.

Order No. 3,086, October 30, 1928, directs:

In *class 113, Sheet-Metal Ware, Making* (Division 14), establish the following subclass and definition, the patents contained in this subclass having been taken for the most part from class 113, subclass 116, Processes:

Processes
119 Electrical contacts, connecters, and terminals.

119. PROCESSES, ELECTRICAL CONTACTS, CONNECTERS, AND TERMINALS. Processes coming under the class definition for making electrical sockets, connecters, terminals, and contacts of sheet metal.

Note.—See class 29, METAL WORKING, subclass 155.5, Blanks and processes, Electrical devices.

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 20, 1928.

[VOL. 376. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 249,476. THE HATCH & BAILEY COMPANY, South Norwalk, Conn. Filed May 24, 1927.




No rights are asserted to the exclusive use of the word "Products" apart from the trade-mark as shown in the drawing. The lines shown in the drawing indicate shading and no particular color scheme.

For Rough Lumber and Timber.

Claims use since Nov. 2, 1926.

Ser. No. 261,555. COMPAGNIE DES MINES DE VICOIGNE, NOEUX & DROCOURT, Noeux-les-Mines, France. Filed Feb. 11, 1928.

ANTHRACINE

For Combustible Matter—viz, Coal or Charcoal Agglomerates.

Claims use since Jan. 7, 1925.

Ser. No. 262,946. YORK AND COMPANY, Grand Rapids, Mich. Filed Mar. 10, 1928.




No claim is made to the word "Coal" apart from the mark shown in the drawing.

For Coal.

Claims use since Jan. 2, 1927.

Ser. No. 270,998. A. C. LAWRENCE LEATHER COMPANY, Boston, Mass. Filed Aug. 14, 1928.

LAWRO

PELT

No claim is made to the exclusive use of the word "Pelt" apart from the other features of the mark.

For Shearlings or Wool Pelts.

Claims use since July 24, 1928.

Ser. No. 271,821. REEVES & SONS LIMITED, London, England. Filed Aug. 31, 1928.

DURAPLAST

For Prepared Clay or Other Materials.
Claims use since July 21, 1928.

Ser. No. 272,962. STEDFAST RUBBER COMPANY, Mattapan, Mass. Filed Sept. 25, 1928.

SUEDSTED

For Artificial Leather.
Claims use since June 2, 1928.

Ser. No. 273,349. ANDREWS & KNOWLES, INC., Mount Olive, N. C. Filed Oct. 4, 1928.

PRIDE OF CAROLINA

For Vegetable Seeds.
Claims use since February, 1927.

## CLASS 3.

### Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 217,573. THE MINNESOTA SPECIALTY COMPANY, St. Paul, Minn. Filed July 18, 1925.

JACK KNIFE KEY KASE

No claim is made to the words "Key Kase" apart from the mark as shown in the drawing.
For Leather Key Cases.
Claims use since March, 1925.

## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 253,489. ARTIFEX CHEMISCHE FABRIK G. M. B. H., Hamburg, Germany. Filed Aug. 15, 1927.

ARTIFEX

For Blocks, Tablets, Cylinders, and Other Shaped Pieces Composed of a Hard Abrasive Granular or Pulverulent Material Like Emery or Silicon Carbide, with a Plastic Binding Agent, Which Devices are Suitable for Polishing Knives, Stoves, and Other Articles, Including Metal Articles and Wooden Articles, Floors, Table Tops, and the Like, to Remove Rust, Stains, Tarnish, Spots, and the Like from the Surfaces.
Claims use since Mar. 7, 1924.

Ser. No. 256,338. MAYER & SCHMIDT SCHLEIFMASCHINEN & SCHMIRGELWERKE A. G., Offenbach-on-the-Main, Germany. Filed Oct. 20, 1927.

Maxalun

For Aluminous Artificial Abrasives.
Claims use since Mar. 12, 1925.

Ser. No. 258,926. WHITTEMORE BROS. CORP., Cambridge, Mass. Filed Dec. 14, 1927.



For Shoe Polishes, Leather Dressings, Shoe Inks, Shoe Stains and Dyes, Fabric and Shoe Cleaners, and Dressings for Cleaning and Removing the Soil from Fabrics and Shoes and for Forming a Coating or Covering of the Fabrics and Shoes, Waterproof Leather Polish and Dressings.
Claims use since May, 1920.

Ser. No. 270,786. SOCIETE ANONYME: PARFUMERIE VIOLET, Paris, France. Filed Aug. 8, 1928.

pour rêver

For Soaps, Soap Creams, and Bath Soaps.
Claims use since Dec. 15, 1926.

Ser. No. 271,600. GATLIN BROTHERS CHEMICAL COMPANY, INC., Ashland, Ky. Filed Aug. 27, 1928.

G-B

For General Household Cleansing Preparation.
Claims use since Jan. 1, 1928.



Ser. No. 272,304. THE PROCTER & GAMBLE COMPANY, Cincinnati, Ohio. Filed Sept. 12, 1928.

AMBER

Applicant is owner of registrations Nos. 70,553 and 70,770.
For Soap.
Claims use since Oct. 28, 1882.

Ser. No. 272,455. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
GARNET




"CLOSEKOTE"

All wording except "Behr-Manning" and "Closekote" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 16, 1928.

Ser. No. 272,456. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
GARNET




"OPENKOTE"

All wording except "Behr-Manning" and "Openkote" is disclaimed apart from the mark shown in the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 8, 1928.

Ser. No. 272,457. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
EMERY




All wording except "Behr-Manning" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 8, 1928.

Ser. No. 272,458. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
EMPIRE
FLINT PAPER




All wording except "Behr-Manning" and "Empire" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 20, 1928.

Ser. No. 272,460. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
DURUNDUM




"OPENKOTE"

All wording except "Behr-Manning, Durundum," and "Openkote" is disclaimed apart from the mark shown in the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 16, 1928.

Ser. No. 272,461. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
DURUNDUM




"CLOSEKOTE"

All wording except "Behr-Manning, Durundum," and "Closekote" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 16, 1928.

Ser. No. 272,462. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
METALITE




All wording except "Behr-Manning" and "Metalite" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 8, 1928.

Ser. No. 272,463. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
CARBICON




"OPENKOTE"

All wording except "Behr-Manning, Carbicon," and "Openkote" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 21, 1928.



Ser. No. 272,464. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
CARBICON




"CLOSEKOTE"

All wording except "Behr-Manning, Carbicon," and "Closekote" is disclaimed apart from the mark shown on the drawing.
For Abrasive Papers and Cloths.
Claims use since Aug. 21, 1928.

Ser. No. 272,646. DARNEE INC., New York, N. Y. Filed Sept. 19, 1928.

MONSIEUR

For Toilet Soaps and Shaving Cream.
Claims use since Sept. 11, 1928.

## CLASS 6.

**Chemicals, Medicines, and Pharmaceutical Preparations.**

Ser. No. 219,210. MOLLY SUGAR, doing business as Supero Laboratory Products Company, Ogden, Utah. Filed Aug. 21, 1925.




The shading is half tinting and not an indication of color.
For Tooth Paste, Zinc-Oxide Ointment, and a Preparation for the Treatment of Rheumatism, Neuralgia, Headache, Sore Throat, Sprains, and General Inflammation.
Claims use since July 1, 1925.

Ser. No. 261,880. SUPH HIKELL, doing business as La Dana Laboratories, Omaha, Nebr. Filed Feb. 18, 1928.




For Face Creams, Hair Tonic, Hair Tints, Face Powder, Depilatories, Rouge, Nail Polish, Pomades, Facial Clays, Brilliantine; Baby Cream, a Cream Similar to Face Cream, but Specially Prepared for Use on Babies; Toilet Water, Skin Lotion, Methol Mint, Cream for Chapped or Rough Skin, Hair Oil, Liquid Shampoo, Hair Rinse, and Massage Cream.
Claims use since January, 1924.

Ser. No. 263,389. BENJAMIN GELLMAN, doing business as Paloma Manufacturing Company, Philadelphia, Pa. Filed Mar. 19, 1928.

Paloma

For Hairdressing Cream.
Claims use since June 5, 1925.

Ser. No. 263,799. WILLIAM ALEXANDER WEBSTER, Atlanta, Ga. Filed Mar. 26, 1928.

NORUN

For Liquid for Stopping Runs in Rayon and Silk Hosiery.
Claims use since Feb. 15, 1928.

Ser. No. 263,891. HARRY L. RABINOW, doing business as Mon Vel Company, New York, N. Y. Filed Mar. 28, 1928.

Mon VEL

For Chap Lotion.
Claims use since September, 1927.

Ser. No. 264,036. ARTHUR H. METCALF, doing business as Sal-O-Lax Co., New Haven, Conn. Filed Mar. 30, 1928.

SAL
-O-
LAX

For Laxatives and Cathartics.
Claims use since on or about Mar. 1, 1928.

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Ser. No. 268,155. THE HILEX COMPANY, St. Paul, Minn. Filed June 16, 1928.




The corporation disclaims the descriptive word "Bleaches" apart from the other features of the mark.
For Liquid Cleaning, Deodorizing and Disinfecting Preparation.
Claims use since Dec. 20, 1927.

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Ser. No. 269,642. DRESSOLINE MANUFACTURING COMPANY, Chicago, Ill. Filed July 16, 1928.




No registration rights are claimed in the words "Trade, Mark, Amicus, Humani," and "Generis" except in association with the other features of the mark as shown in the drawing.
For Antiseptic Salve for External Use in the Treatment of Cuts, Burns, Scalds, Bruises, Sunburns, Ulcers, Insect Bites, Stings, and in General for All Flesh or Skin Wounds and Skin Diseases.
Claims use since on or about Sept. 1, 1914.

Ser. No. 269,976. THE ODORONO COMPANY, Cincinnati, Ohio. Filed July 21, 1928.

ODO-RO-NO

For Deodorants in Liquid, Powder, and Paste Form and Preparation for Preventing Excessive Perspiration, Also Depilatory.
Claims use since August, 1909.

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Ser. No. 270,175. EAGLE JAVELLE WATER CO., Philadelphia, Pa. Filed July 26, 1928.

THE EAGLE
JAVELLE WATER

The words "Javelle Water" are disclaimed apart from the other features of the mark appearing in the drawing.
For Liquid Preparation for Purifying the Underclothing, Removing Stains and Discolorations, and Giving a Brilliant Whiteness to Linen.
Claims use since July 10, 1925.

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Ser. No. 270,753. THEODORE VIRGIL MORRISON, doing business as Ton-So-Rem Products Co., Atlanta, Ga. Filed Aug. 8, 1928.

Ton-So-Rem
MORE POWER TO NATURE

The words "More Power to Nature" are disclaimed apart from the mark as shown in the drawing.
For Medical Compound for the Treatment of Tonsilitis and Kindred Throat Troubles.
Claims use since Jan. 15, 1928.

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Ser. No. 271,348. LA SOCIETE ANONYME LES PARFUMERIES DE GABILLA, Paris, France. Filed Aug. 21, 1928.

BIJOU
D'AMOUR

For Perfumes, Toilet Waters, Toilet Creams, Toilet Powders, and Rouges, and Dentifrices in Paste, Powder, and Liquid Form.
Claims use since Apr. 28, 1928.



Ser. No. 271,349. LA SOCIETE ANONYME LES PARFUMERIES DE GABILLA, Paris, France. Filed Aug. 21, 1928.

MON TALISMAN

For Perfumes, Toilet Waters, Toilet Creams, Toilet Powders, and Rouges, and Dentifrices in Paste, Powder, and Liquid Form.
Claims use since Jan. 13, 1928.

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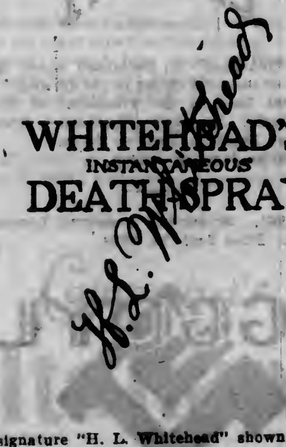
Ser. No. 271,513. SMITH KLINE & FRENCH COMPANY, Philadelphia, Pa. Filed Aug. 24, 1928.

Eskay's

For Seasick Medicine and Preventive, Emulsion of Cod-Liver Oil, and Medicine for the Relief of Bronchitis and Other Spasmodic Conditions of the Respiratory Tract.
Claims use since Aug. 1, 1928, as to seasick medicine and preventive; in connection with emulsion of cod-liver oil since Nov. 24, 1926; and in connection with medicine for bronchitis and other spasmodic conditions of the respiratory tract since Sept. 11, 1926.

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Ser. No. 271,632. HOWARD L. WHITEHEAD, San Francisco, Calif. Filed Aug. 27, 1928.




The signature "H. L. Whitehead" shown on the drawing as forming a feature of the mark is a facsimile of applicant's actual signature. The words "Instantaneous Death-Spray" are disclaimed apart from the mark as shown in the drawing.
For Insecticides.
Claims use since June 20, 1928.

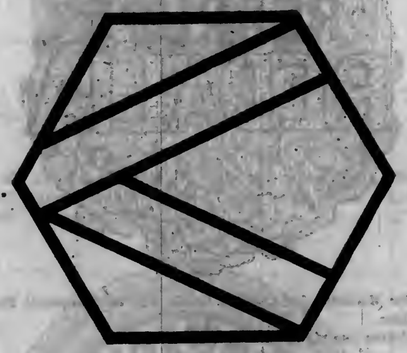
Ser. No. 271,735. ELIZABETH ARDEN, INC., New York, N. Y. Filed Aug. 30, 1928.



For Skin Cream, Skin Tonic, Muscle Oil, Skin Astringent, Skin Lotion, Skin Ointment, Skin Powder, Rouge; Lip Pastes, Sticks, Pencils, and Salves; Compacts Filled with Powder and Rouge, Eye Cream, Eyedrops, Eyebrow Pencil; Eye Shadow—to wit, a Color Preparation for Darkening the Eyelids; Preparations for the Hair—Namely, Hair Tonic, Pomade, and A Preparation for Treating Dandruff; Shampoo, Henna, Bath Salts, Dentifrices, Hair Eradicator and Depilatory, Eye Bandelettes (Medicinally-Filled Eye Bandages).
Claims use since Aug. 1, 1919.

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Ser. No. 272,009. SCHERING-KAHLBAUM A. G., Berlin, Germany. Filed Sept. 6, 1928.



For Extirpating Preparations for Insects and Plants, Disinfectants, Chemical Fire-Extinguishing Preparations, Chemical Dyestuffs, Preparations for Preserving and Coloring Leather, Tanning Compositions, Spring Salts, Bathing Salts, Perfumeries, Volatile Oils, Bleaching Preparations, Antirusting Preparations; Remedies and Preparations for the Treatment of Affections Caused by Chill, Tuberculosis, and Other Diseases of the Respiratory and Vagus System; Leprosy, Rheumatism, Gout, Seasickness, Anemia, Low Blood Pressure, Diseases of the Urine Tracts, Gonorrhea and Other Venereal Diseases; Remedies and Preparations for the Treatment of Disorders of the Larynx, Heart, Liver, Bile, Stomach, Bowels, Skin, Eyes, and Wounds; Preparations for the Diagnosis of Pregnancy, Purgatives, Sedatives, Analgesics, Antiphlogistics, Anesthetics, Hypnotics, Antistreptococcal and Diphtheria Serums, Preparations for Diabetics, Organo-Therapeutic Preparations, Nerve Tonics, Preparations for Internal Use for the Purpose of Facilitating the Taking of X-Ray Pictures of Internal Organs, Disinfecting Preparations,

Acetylo-Salicylic Acid, Boric Acid, Camphoric Acid, Carbolic Acid, Gallic Acid, Lactic Acid, Oxalic Acid, Phosphoric Acid, Pyrogallic Acid, Acetone, Molybdic Acid, Salicylic Acid, Tannic Acid, Trichloracetic Acid, Valerianic Acid, Amylic Alcohol, Methylic Alcohol, Propylic Alcohol, Trichlorbutylic Alcohol, Ammonia Water, Ammonium Salts, Amyl Acetate, Amyl Nitrite, Amylene Hydrate, Antimony Lactate, Antimony Sulphide, Barium Sulphate, Benzaldehyde Cyanhydrium, Bismuth Salts, Borax Bromoform, Cadmium and Its Salts, Calcium Salts, Camphor, Monobromated Camphor, Caustic Soda, Collodion Preparations and Chemicals for Making the Same, Chloral Hydrate, Chloral Chloroform, Cyanide Salts, Dextrose, Ether Bromide, Ether Chloride, Ethyl Chloride, Sulphuric Ether, Ethyl Acetate, Ethyl Aceto Acetate, Ethyl Iodide, Extract Male Fern Ethereal, Formalin, Glycerophosphates, Hydroquinone, Iodine, Iodoform, Iron Salts, Lead Salts, Levulose, Lithium Salts, Metallic Magnesium and Its Salts, Menthol, Mercury and Its Salts, Methyl Salicylate, Mustard Oil (Artificial), Naphthalene, Paraldehyde, Phenyl Salicylate, Potassium and Its Salts, Resorcin, Rubidium Brômide, Rubidium Iodide, Carlsbad Salts, Rochelle Salts, Silver Salts, Sodium and Its Salts, Strontium Salts, Sulphur, Sulphur Iodide, Cream of Tartar, Tartar Emetic, Terpineol, Terpine Hydrate, Thymol, Toluol, Urea, Urethane, Xylol, Tin Chloride, Metallic Salts for Electroplating, and Zinc Salts.

Claims use since about September, 1927.

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Ser. No. 272,055. THE REDALIA MEDICINE COMPANY, Columbus, Ohio. Filed Sept. 7, 1928.




For Medicine for Coughs, Colds, and as a General Body Builder.

Claims use since Jan. 1, 1927.

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Ser. No. 272,175. FRED L. MERRELL, Portland, Oreg. Filed Sept. 10, 1928.




No claim is made to the words "Pile Salve" and "Greatest" apart from the mark shown in the drawing.

For Salve for the Relief of Piles.

Claims use since Aug. 1, 1928.

Ser. No. 272,264. GAMBLE STORES, INCORPORATED, Fergus Falls, Minn. Filed Sept. 12, 1928.




For Radiator Cement.

Claims use since Apr. 1, 1927.

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Ser. No. 272,306. JOHN R. PROCTOR, doing business as J. R. Proctor & Company, Lebanon and Pittsburgh, Pa. Filed Sept. 12, 1928.

PROCTOR'S




The word "Liniment" is disclaimed apart from the other features of the mark shown in the drawing.

For Liniment Used in the Treatment of Sprain, or Strain, Toothache, Neuralgia, Toothache, Rheumatism and Stiff Joints, Lumbago, Bruises, Burns.

Claims use since January, 1924.

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Ser. No. 272,901. SCIENTIFIC COSMETIC LABORATORIES, Chicago, Ill. Filed Sept. 24, 1928.




For Hair and Scalp Tonics.

Claims use since June 30, 1928.



Serial No. 272,938. HARRY FLAMHAFT, doing business as Roubeches Import Co., New York, N. Y. Filed Sept. 25, 1928.

ROUBECHEZ

For Natural and Synthetic Oils Suitable for Perfumery Purposes.

Claims use since Aug. 16, 1928.

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Ser. No. 272,980. CRESTA BLANCA COMPANY, San Francisco, Calif. Filed Sept. 26, 1928.

CASA MADRONE

For General Medicinal Tonic Having a Wine Base.

Claims use since Sept. 6, 1928.

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Serial No. 273,166. R. T. VANDERBILT COMPANY, INC., New York, N. Y. Filed Sept. 29, 1928.

VINEGAIRE TAR

Applicant disclaims exclusive right to the word "Tar" apart from the mark shown on the drawing.

For Product Derived from Wood by Distillation and Used for Compounding with Rubber.

Claims use since Aug. 4, 1928.

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Ser. No. 273,339. CAMPANA CORPORATION, Batavia, Ill. Filed Oct. 3, 1928. Under 10-year proviso.

Campana's Italian

For Lotions for the Skin.

Claims use since Jan. 1, 1895.

Ser. No. 273,385. UNITED DRUG COMPANY, Boston, Mass. Filed Oct. 4, 1928.

Alco-Rex

For Rubbing Alcohol Compound.

Claims use since Mar. 30, 1928.

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Ser. No. 273,386. THE VERMIDINE COMPANY, Dallas, Tex. Filed Oct. 4, 1928.

VERMIDINE

For Poultry Wormer.

Claims use since Sept. 20, 1927.

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Ser. No. 273,465. KLIP CHEMCAL COMPANY, New York, N. Y. Filed Oct. 6, 1928.

KLIP

For Insecticides.

Claims use since Aug. 21, 1928.

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Ser. No. 273,545. HARRY H. GOOD, doing business as Dr. Tutt Manufacturing Co., New York, N. Y. Filed Oct. 9, 1928. Under 10-year proviso.




For Liver Pills.

Claims use since 1845.

## CLASS 7.

### Cordage.

Ser. No. 270,066. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio. Filed July 24, 1928.



The trade-mark consists of a silver strand which is incorporated in the rope during the laying-in operation. No claim is made to the registration of the representation of the wire rope.

For Wire Rope.

Claims use since Mar. 14, 1922.

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Ser. No. 273,651. THE EDWIN H. FITLER CO., Philadelphia, Pa. Filed Oct. 11, 1928.

Wm. Penn PURE MANILA

No claim is made to the words "Pure Manila" apart from the mark shown in the drawing.

For Manila Rope.

Claims use since about Sept. 21, 1928.

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## CLASS 8.

### Smokers' Articles, Not Including Tobacco Products.

Ser. No. 270,207. SCHNEIDER BROTHERS, INC., Chicago, Ill. Filed July 26, 1928.

ROTO-TRAY

Disclaimer is made to the word "Tray" apart from the mark shown on the drawing.

For Combination Ash Tray, Cigarette and Match Holder.

Claims use since July 15, 1926.

## CLASS 12.

### Construction Materials.

Ser. No. 265,602. THE KAWNEER COMPANY, Niles, Mich. Filed Apr. 30, 1928.

HE

For Metal Mouldings.

Claims use since Apr. 18, 1928.

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Ser. No. 265,603. THE KAWNEER COMPANY, Niles, Mich. Filed Apr. 30, 1928.

HK

For Metal Mouldings.

Claims use since Apr. 18, 1928.

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Ser. No. 272,910. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Sept. 24, 1928.

BARRIER

For Plaster.

Claims use since Oct. 12, 1920.

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Ser. No. 273,484. GRAND RAPIDS PLASTER COMPANY, Grand Rapids, Mich. Filed Oct. 6, 1928.

HOVEY'S

For Plaster.

Claims use since Jan. 1, 1860.



## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 264,534. THE SCHOLL MFG. CO. INC., Chicago, Ill. Filed Apr. 7, 1928.

Durabelum

For Noncorrosive Metals for Arch Supports and Surgical Appliances.

Claims use since June 1, 1920.

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## CLASS 15.

### Oils and Greases.

Ser. No. 271,581. CALIFORNIA-EASTERN OIL CO., Los Angeles, Calif. Filed Aug. 25, 1928.

SUNSET GASOLINE

The word "Gasoline" is disclaimed apart from the mark shown on the drawing.

For Gasoline.

Claims use since Mar. 19, 1928.

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Ser. No. 271,895. INDUSTRIAL OIL CORPORATION, Warren, and Stoneham, Pa. Filed Sept. 4, 1928.

PENN-WYN

For Motor Oils.

Claims use since Jan. 6, 1928.

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Ser. No. 271,976. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

ALLVIS

For Hydrocarbon Motor Fuel Oils, Lubricating Oils, Lubricating Greases, and Engine, Dynamo, and Gas-Engine Lubricating Oils and Quenching Oils.

Claims use since Sept. 10, 1924.



Ser. No. 271,977. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

C MINERAL

No claim is made to the word "Mineral" apart from the mark shown in the drawing.

For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, and Steam-Cylinder Oil.

Claims use since June 15, 1926.

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Ser. No. 271,979. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

D MINERAL

No claim is made to the word "Mineral" apart from the mark shown in the drawing.

For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases and Steam-Cylinder, Calender, and Crusher Lubricating Oils.

Claims use since Sept. 10, 1924.

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Ser. No. 271,980. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

DARK CLIPPER

No claim is made to the word "Dark" apart from the mark shown in the drawing.

For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, and Steam-Cylinder Oils.

Claims use since Sept. 10, 1924.

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Ser. No. 271,983. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

FASHION

For Hydrocarbon Motor Fuel Oils, Lubricating Oils, Lubricating Greases; Engine, Dynamo, Spindle, Turbine, Gas-Engine and Compressor Lubricating Oils and Compounds.

Claims use since Sept. 10, 1924.

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Ser. No. 271,984. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

KLONDYKE

For Hydrocarbon Motor Fuel Oils, Lubricating Oils, Lubricating Greases, Ice-Machine and Windmill Lubricating Oils and Compounds.

Claims use since Sept. 10, 1924.

Ser. No. 271,988. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

M.S. MINERAL

No claim is made to the word "Mineral" apart from the mark shown in the drawing.
For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, Steam-Cylinder Oil, Calender-Lubricating Oil, and Crusher-Lubricating Oil.
Claims use since Sept. 10, 1924.

Ser. No. 271,991. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

K-MINERAL

No claim is made to the word "Mineral" apart from the mark shown in the drawing.
For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, Steam-Cylinder and Tempering Oils.
Claims use since Sept. 10, 1924.

Ser. No. 271,999. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

RED GLIPPER

No claim is made to the word "Red" apart from the mark shown in the drawing.
For Hydrocarbon Motor Fuel Oils, Lubricating Oils, Lubricating Greases, and Steam-Cylinder Oil.
Claims use since Sept. 10, 1924.

Ser. No. 272,001. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

SULTANA

For Hydrocarbon Motor Fuel Oil, Lubricating Oils, Lubricating Greases, and Engine, Dynamo, Separator, Turbine, Gas-Engine, Crank-Case, Compressor, and Diesel Lubricating Oils and Compounds.
Claims use since Sept. 10, 1924.

Ser. No. 272,595. W. A. WOOD CO., Boston Mass. Filed Sept. 17, 1928.

PENNWOOD

For Lubricating Oils.
Claims use since Dec. 21, 1926.

Ser. No. 273,202. MIDWEST REFINING COMPANY, Denver, Colo. Filed Oct. 1, 1928.



For Lubricating Oils.
Claims use since June 23, 1928.

Ser. No. 273,513. PENN-SENTINEL OIL CO., INC., Dallas, Tex. Filed Oct. 3, 1928.

Penn-Sentinee

For Lubricating Oils and Greases.
Claims use since about Sept. 1, 1928.

## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 267,780. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed June 9, 1928.

PAREX

For Drier, Liquid Filler, Asphaltum Varnish, Dry and Ready-Mixed Paints, Varnishes, and Paint Enamels.
Claims use since January, 1928.

Ser. No. 273,409. PATEK BROTHERS, INC., Milwaukee, Wis. Filed Oct. 5, 1928.

P.B.Q.

For Paint Enamel.
Claims use since Sept. 13, 1928.



## CLASS 20.

### Linoleum and Oiled Cloth.

Ser. No. 271,636. ARMSTRONG CORK COMPANY, Pittsburgh, Pa. Filed Aug. 28, 1928.

FELTROLEUM

For Linoleum and Felt-Base Floor Coverings, Both Piece Goods and Rugs.
Claims use since Aug. 24, 1928.

## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 265,362. BLANCK & CARRIER CORP., New York, N. Y. Filed Apr. 25, 1928.

BC

For Automotive and Industrial Carbon, Graphite and Metal Brushes for Motors and Generators, Contacts, and Slip Rings.
Claims use since Oct. 25, 1927.

Ser. No. 271,260. MAN-O-LAMP CORPORATION, New York, N. Y. Filed Aug. 18, 1928.

MAN-O-LAMP

The word "Lamp" apart from the mark is disclaimed.
For Electric Table Lamps, Electric Boudoir Lamps, Electric Novelty Lamps, and Electric-Lamp Fixtures.
Claims use since July, 1928.

Ser. No. 271,621. RICHARDSON ELECTRIC CORPORATION, Fort Lauderdale, Fla. Filed Aug. 27, 1928.

RECORP-LOWAVER

For Frequency Changer for Use in Radio, Telegraphic, Telephonic, and Television Reception.
Claims use since June 1, 1928.

Ser. No. 272,094. JOSEPH H. COHEN, doing business as The Perfection Motor Products Company, Bridgeport, Conn. Filed Sept. 8, 1928.

VICTORY

For Electric Cigar Lighters.
Claims use since Mar. 15, 1927.

Ser. No. 272,167. MARVEL RADIO MAN'F'G CO., INC., Des Moines, Iowa. Filed Sept. 10, 1928.

LITTLE MARVEL

For Radio Crystal Receiving Sets.
Claims use since March, 1928.

Ser. No. 272,750. CHASE BRASS & COPPER COMPANY, Waterbury, Conn. Filed Sept. 21, 1928.



For Tubular Body Members for Electric Flash Lights, Socket Casings Including Cap and Shell Members, and Slip Canopies for Electric-Lighting Fixtures.
Claims use since Aug. 20, 1928.

Ser. No. 273,044. COLEBROOKDALE IRON COMPANY, Colebrookdale, Pa. Filed Sept. 27, 1928.

KOLEBROOK

For Electric Flatirons.
Claims use since Sept. 5, 1928.

Ser. No. 273,297. GOULD STORAGE BATTERY CO., INC., Depew, N. Y. Filed Oct. 8, 1928.

COMO

For Storage Batteries and Parts Thereof.
Claims use since Sept. 19, 1928.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 245,506. MAY & MALONE, Chicago, Ill. Filed Mar. 10, 1927.

BIRDIE MM

For Golf Balls.
Claims use since December, 1926.

Ser. No. 263,204. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Mar. 15, 1928.

FANTAIL

For Artificial Bait.
Claims use since on or about Mar. 1, 1928.

Ser. No. 271,735. HELEN N. GOVE, doing business as Gove Manufacturing Company, Williamsport, Pa. Filed Aug. 30, 1928.

FIGURETS UNEEKE

The word "Figurets" is disclaimed apart from the mark as shown.
For Figurettes and Doll Products—Namely, Dolls and Toy Animal Figures.
Claims use since Aug. 25, 1928.

Ser. No. 272,267. THE P. GOLDSMITH SONS COMPANY, Cincinnati, Ohio. Filed Sept. 12, 1928.



ORIOLE

For Golf Balls, Tennis Balls, Golf Clubs, and Tennis Rackets.
Claims use since June 11, 1928.

Ser. No. 272,651. THE GIBSON ART COMPANY, Cincinnati, Ohio. Filed Sept. 19, 1928.

CHALLENGE

For Playing Cards.
Claims use since Sept. 4, 1928.

Ser. No. 272,652. THE GIBSON ART COMPANY, Cincinnati, Ohio. Filed Sept. 19, 1928.

DIANA

For Playing Cards.
Claims use since Sept. 4, 1928.

Ser. No. 273,384. CHARLES F. SNOVER, doing business as American Sports Publishing Association, Bay City, Mich. Filed Oct. 4, 1928.

PENNANT

For Indoor Ball Game.
Claims use since Sept. 21, 1928.

Ser. No. 273,458. GAMBLE STORES, INCORPORATED, Fergus Falls, Minn. Filed Oct. 6, 1928.

SENIOR

For Golf Balls.
Claims use since Jan. 20, 1928.

Ser. No. 273,462. HANOVER RUBBER CO. "EXCELSIOR" INC., New York, N. Y. Filed Oct. 6, 1928.

Excelsior

For Rubber Toys, as Follows: Rubber Animals, Rubber Dolls, and Rubber Balls.
Claims use since 1912.



## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof.

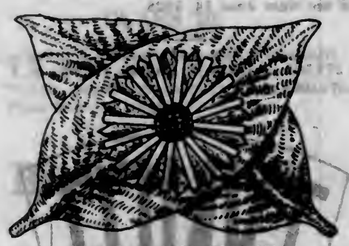
Ser. No. 271,276. SEATTLE ASTORIA IRON WORKS, Seattle, Wash. Filed Aug. 18, 1928.

F TROYER X

Applicant claims ownership of registered Trade-Mark No. 157,627, issued Aug. 8, 1922.
For Machinery for Canning and Can Making.
Claims use since June 1, 1928.

Ser. No. 272,311. JOHN SELBACH, Topeka, Kans. Filed Sept. 12, 1928.

SUNFLOWER



CIGARETTE MACHINE

Applicant disclaims the words "Cigarette Machine" apart from the mark shown.
For Machine for Making Cigarettes.
Claims use since Aug. 31, 1928.

Ser. No. 272,935. HENRY DISSTON & SONS, INCORPORATED, Tacony, Philadelphia, Pa. Filed Sept. 25, 1928. Under 10-year proviso.

REVERSIBLE TAPER △

For Saw Files.
Claims use since 1887.

Ser. No. 272,974. BONNEY FORGE & TOOL WORKS, Allentown, Pa. Filed Sept. 26, 1928.

HERCULES

Applicant claims ownership of trade-mark registered June 8, 1915, under No. 104,592.
For Wrenches, Socket Wrenches, Whether Detachable or Solid Sockets, Male or Female, and Attachments Pertaining Thereto.
Claims use since Aug. 25, 1928.

Ser. No. 273,548. INSERTED VALVE SEAT & TOOL COMPANY INCORPORATED, Detroit, Mich. Filed Oct. 9, 1928.

WASCO

For Tools for Counterboring Valve Seats in Engine Blocks for the Insertion of Ring Seats for Purposes of Renewal, Cutters for Said Tools. Renewal Ring Inserts to be Inserted in Counterbored Valve Seats, and Wrenches for Use on Said Tools.
Claims use since Sept. 1, 1926.

Ser. No. 273,564. F. L. SMIDTH & COMPANY, New York, N. Y. Filed Oct. 9, 1928.

LENIX

For Parts of Machines for Transmission Purposes Comprising Bases in the Form of Supports on Metallic Chairs Intended to Sustain the Standards, Standards for Sustaining the Pulleys, and Pulleys to be Mounted on the Standards.
Claims use since about Feb. 28, 1906.

## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 272,728. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

OUR OWN

For Washboards.
Claims use since about Jan. 1, 1907.

## CLASS 26.

### Measuring and Scientific Appliances.

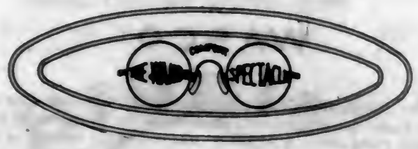
Ser. No. 272,509. OPTICAL SERVICE CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

T&T

DUO-VIS

Applicant claims ownership of registered Trade-Mark No. 201,695, issued Aug. 4, 1925.
For Ophthalmic Lenses.
Claims use since November, 1927.

Ser. No. 272,967. WALL & OCHS, INCORPORATED, Philadelphia, Pa. Filed Sept. 25, 1928.




No claim is made to the word "Spectacles" nor to the representation of a pair of spectacles in the drawing apart from the mark as illustrated.

For Spectacles.

Claims use since June 28, 1928.

## CLASS 27.

### Horological Instruments.

Ser. No. 272,338. L. & C. MAYERS CO., New York, N. Y. Filed Sept. 13, 1928.

LYCEUM

For Watches and Parts Thereof.

Claims use since about Feb. 1, 1928.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

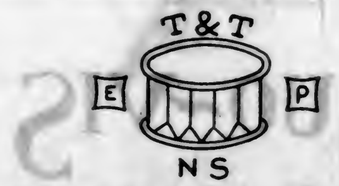
Ser. No. 268,325. TAU KAPPA EPSILON FRATERNITY, Lombard, Ill. Filed June 19, 1928.

TKE

For Fraternity Badges, Coats of Arms, Shields, Lapel Buttons, Finger Rings, Lockets, Flasks, Bar Pins, Bracelets, Belt Buckles, Cuff Links; Watch, Neck, and Pin Chains; Charms, Scarf Pins, Lapel and Breast Pins, Compact Cases, Favors, Toilet Sets, Tableware Both Flat and Hollow, Pocketknives, Tie Clasps, All of Precious Metals.

Claims use since Jan. 10, 1902.

Ser. No. 271,090. TABER & TIBBITS, INC., Wallingford, Conn. Filed Aug. 15, 1928.




Applicant disclaims the right to the exclusive use of the letters "E P" and "N S" apart from the trade-mark as shown in the drawing.

For Silver-Plated Hollow Ware.

Claims use since Jan. 1, 1920.

Ser. No. 271,114. B. L. BOUER-GOLDSTEIN COMPANY, Chicago, Ill. Filed Aug. 16, 1928.

B-G

For Bar Pins, Bracelets, Brooches, Charms, Clasps, Cuff Links, Earrings, Lavallières, Lockets, Pins, Pendants, Finger Rings, Sautoirs, Studs (All Made of Precious Metal), and Similar Articles of Precious-Metal Jewelry for Personal Wear, but Not Including Watches.

Claims use since June 14, 1928.

Ser. No. 272,565. ALBERT W. KAPFER, Buffalo, N. Y. Filed Sept. 17, 1928.

TYNOT

For Necktie or Scarf Clasps.

Claims use since Sept. 7, 1928.

Ser. No. 272,628. SYNDICATE TRADING COMPANY, New York, N. Y. Filed Sept. 18, 1928.

Madora Pearls

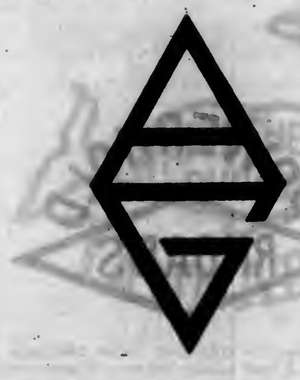
No claim is made to the exclusive use of the word "Pearls" apart from the mark shown in the drawing.

For Pearls.

Claims use since May 3, 1928.



Ser. No. 272,806. ADOLPH GOLDBERG, New York, N. Y. Filed Sept. 22, 1928.



For Articles of Platinum and Gold Jewelry for Personal Wear, Not Including Watches.

Claims use since Mar. 1, 1928.

## CLASS 30.

### Crockery, Earthenware, and Porcelain.

Ser. No. 272,189. WHITE CLOUD FARMS, INC., Rock Tavern, N. Y. Filed Sept. 10, 1928.

BOTTOMS-UP

For Earthenware Drinking Cups.

Claims use since Feb. 6, 1928.

## CLASS 32.

### Furniture and Upholstery.

Ser. No. 272,925. OSCAR BAUM, Washington, D. C. Filed Sept. 25, 1928.




All words appearing on the drawing are disclaimed apart from the other features of the mark shown.

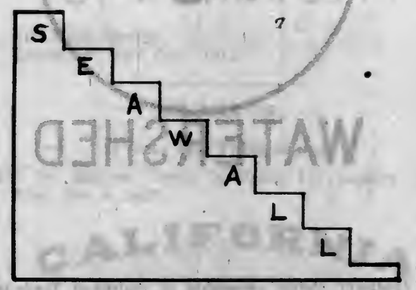
For Furniture—Namely, Bookcases, Beds, Buffets, Benches, Desks, Dressing Tables, Mirrors, Lounging Chairs, Table Chairs, Settees, Footstools, Sewing Tables, Dining Tables, Gate-Leg Tables, Cedar Chests, Chiffonrobes, China Closets, Bed Springs, Box Springs, Mattresses and Pillows, Smoker Cabinets, Rocking-Chairs, Cupboards, and Telephone Stands.

Claims use since 1913.

## CLASS 35.

### Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 271,174. R. C. EDWINS, Gulfport, Miss. Filed Aug. 17, 1928.




For Tube Patching for Repair of Tire Tubes, Hose, Etc.

Claims use since Feb. 1, 1918.

Ser. No. 273,008. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.




WATERSHED

Applicant claims ownership of Trade Mark Certificate No. 86,332, issued Apr. 30, 1912; Certificate No. 141,802, issued Apr. 26, 1921; Certificate No. 145,187, issued July 26, 1921. No claim is made to the word "Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Oct. 31, 1927.

Ser. No. 273,009. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.

J.E. RHOADS & SONS
GRIP-O-TAN
WATERSHED

Applicant claims ownership of registered Trade-Mark Certificates No. 136,909, issued Nov. 9, 1920; No. 141,802, issued Apr. 26, 1921; No. 145,187, issued July 26, 1921. No claim is made to the word "Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Oct. 13, 1927.

Ser. No. 273,010. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.

J.E. RHOADS & SONS
POWER
WATERSHED

Applicant claims ownership of registered Trade-Mark Certificates No. 141,802, issued Apr. 26, 1921; No. 145,006, issued July 19, 1921; No. 145,187, issued July 26, 1921. No claim is made to the words "Power Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Oct. 25, 1927.

Ser. No. 273,011. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.

POWERHOLD
RHOADS
WATERSHED

Applicant claims ownership of registered Trade-Mark Certificates No. 141,802, issued Apr. 26, 1921; No. 145,187, issued July 26, 1921; No. 243,263, issued June 12, 1928. No claim is made to the words "Powerhold Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since June 1, 1928.

Ser. No. 273,012. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.

SER-TAN
WATERSHED

Applicant claims ownership of registered Trade-Mark Certificates No. 141,802, issued Apr. 26, 1921; No. 217,010, issued Aug. 24, 1926. No claim is made to the word "Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Apr. 16, 1928.



Ser. No. 273,014. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.

WATERSHED
RHOADS
TANNATE

Applicant claims ownership of registered Trade-Mark Certificates No. 55,567, issued Oct. 9, 1906; No. 95,667, issued Mar. 3, 1914; No. 145,187, issued July 26, 1921. No claim is made to the word "Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Oct. 3, 1925.

## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 268,903. THE ARTOPHONE CORPORATION, St. Louis, Mo. Filed June 30, 1928.

RAYOPHONIC

For Phonograph Reproducer.

Claims use since May 9, 1927.

## CLASS 37.

### Paper and Stationery.

Ser. No. 266,414. BRONX JOBBING HOUSE, New York, N. Y. Filed May 15, 1928.

BRONX
SPECIAL
R. J. H.
BRAND

No claim is made to the words "Bronx Special Brand" apart from the mark shown in the drawing.

For Blank Books.

Claims use since Jan. 4, 1928.

Ser. No. 270,434. MID-STATES GUMMED PAPER COMPANY, Chicago, Ill. Filed Aug. 1, 1928.

Windo-Sho

For Paper Tape.

Claims use since about Mar. 1, 1925.

Ser. No. 272,561. HILL INDEPENDENT MANUFACTURING COMPANY, Germantown, Philadelphia, Pa. Filed Sept. 17, 1928.

CHAMPION

For Hand Stamps.

Claims use since June, 1912.

## CLASS 38.

### Prints and Publications.

Ser. No. 257,046. NORA H. BLOM, Los Angeles, Calif. Filed Nov. 4, 1927.

CALIFORNIA
VIKING

For Weekly Publication.

Claims use since Aug. 12, 1924.

Ser. No. 266,912. BENNETT-WATTS-HAYWOOD CO., Lafayette, Ind., and Chicago, Ill. Filed May 24, 1928.

CERTIFIED CIRCULATION

The words "Certified Circulation" are disclaimed apart from the mark shown. The lining indicates shading only.

For a Periodical.

Claims use since on or about Dec. 15, 1927.

Ser. No. 268,620. MILWAUKEE PRINTING COMPANY, Milwaukee, Wis. Filed June 25, 1928.

Famous
MILPRINT
PRODUCTS

The word "Products" is disclaimed apart from the mark as shown.

For Counter and Window Display Cards, Circulars, Broadsides, and Other Types of Advertising Literature; Catalogs, Street-Car Cards, Printed Display Easels and Window Strips, and Printed Bottle, Jar, and Can Labels.

Claims use since May 13, 1924.

Ser. No. 272,947. MAGAZINE PUBLISHERS, INC., New York, N. Y. Filed Sept. 25, 1928.

FLYING ACES

For Monthly Magazine.
Claims use since July 23, 1928.

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Ser. No. 273,365. THE JAMES C. FIFIELD COMPANY, Minneapolis, Minn. Filed Oct. 4, 1928.

THE AMERICAN BAR

For Annual Publication.
Claims use since Oct. 26, 1918.

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Ser. No. 273,377. THE PHILATELIC PUBLISHING CO. INC., New York, N. Y. Filed Oct. 4, 1928.

THE STAMP COLLECTOR'S MAGAZINE

For Monthly Publication.
Claims use since April, 1924.

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Ser. No. 273,439. THE BRIDGEPORT LIFE PUBLISHING COMPANY, Bridgeport, Conn. Filed Oct. 6, 1928.

Bridgeport Life

For Weekly Newspapers.
Claims use since Apr. 3, 1915.

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Ser. No. 273,510. OIL AGE PUBLISHING CO., INC., Los Angeles, Calif. Filed Oct. 8, 1928.

OIL AGE

For Periodical.
Claims use since 1910.

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Ser. No. 273,791. THE AERONAUTICAL DIGEST PUBLISHING CORPORATION, New York, N. Y. Filed Oct. 15, 1928.

AERO DIGEST

For Monthly Magazine.
Claims use since February, 1924.

Ser. No. 273,799. THE CHICAGO DAILY NEWS, INC., Chicago, Ill. Filed Oct. 15, 1928.

The Chicago Merchant

For Monthly Publication Devoted to Promoting New Ideas and Opportunities for Retailers.
Claims use since January, 1928.

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## CLASS 39.

### Clothing.

Ser. No. 258,164. DALTON HOSIERY MILLS INC., now by change of name Westcott Hosiery Mills, Dalton, Ga. Filed Nov. 29, 1927.

MODE-MODELED

The right to exclusive use of the word "Mode" and the word "Modeled" each apart from the other is disclaimed.
For Hosiery.
Claims use since Nov. 11, 1927.

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Ser. No. 264,586. INTERNATIONAL TEXTILE CORPORATION, Inglewood, Calif. Filed Apr. 9, 1928.

INTER-TEX



For Hosiery.
Claims use since about Mar. 1, 1928.

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Ser. No. 265,596. WILBAR'S, INC., Boston, Mass. Filed Apr. 28, 1928.

Lucky Lady

HOSIERY

The word "Hosiery" as shown in the drawing is disclaimed.
For Hosiery.
Claims use since Feb. 20, 1928.



Ser. No. 266,993. HAWES & CURTIS, London, England. Filed May 25, 1928.

Hawes & Curtis

The trade-mark is a facsimile of the signature of the firm written by a member of the firm.
For Dressing Gowns, Dress and Negligee Shirts, Pajamas, Underwear of Knitted Fabric for Men's Use, Collars, Ties, Socks, Stockings, Leather Gloves, Bathing Suits, Pull-Overs, Mufflers, Golf Jackets Including Leather Golf Jackets, Suspenders, Braces, Dress Waistcoats, Suits for Men, Costumes for Ladies, Overcoats for Men and Boys.
Claims use since February, 1913.

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Ser. No. 268,375. KREINIK & FEIGENBAUM, New York, N. Y. Filed June 20, 1928.

PIC-R-DEE

For Women's and Misses' Sport Coats, Traveling Coats, and Dress Coats.
Claims use since May, 1928.

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Ser. No. 268,384. THE PARIS DRY GOODS CO., Great Falls, Mont., and New York, N. Y. Filed June 20, 1928.

Style-Art

The word "Style" is disclaimed apart from the mark shown.
For Shoes of Leather or Rubber or Fabric Materials or of Combinations of Leather, Rubber, and Fabric Materials, and Hosiery.
Claims use since February, 1927.

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Ser. No. 269,017. COOPER, WELLS & CO., St. Joseph, Mich. Filed July 3, 1928.

"Admiration Hosiery"

No claim is made to the exclusive use of the words "Full Fashioned Seamless Hosiery, Trade-Mark," and "St. Joseph, Mich." apart from the mark shown in the drawing.
For Hosiery.
Claims use since Sept. 30, 1919.

Ser. No. 269,321. FRANCES SACHSENMAIER, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Filed July 9, 1928.

LARKWOOD VAMP-TOE

No claim is made to exclusive use of the word "Toe" apart from the mark shown in the drawing.
For Hosiery.
Claims use since Mar. 10, 1926.

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Ser. No. 269,720. DRESSWELL SHIRTS, INC., New York, N. Y. Filed July 17, 1928.

MIKADO RADIUM GUARANTEED WASHABLE

The descriptive words "Radium" and "Guaranteed Washable" shown in the accompanying drawing are disclaimed apart from the mark as shown.
For Dress, Negligee, and Work Shirts, Pajamas.
Claims use since Jan. 2, 1925.

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Ser. No. 270,048. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed July 23, 1928.

OX-HIDE

For Cotton Canvas Work Gloves.
Claims use since July 7, 1928.

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Ser. No. 271,379. DRUBIN-LIGHTMAN, INC., New York, N. Y. Filed Aug. 22, 1928.

"BRIDGE"

For Dresses, Frocks, Ensembles, and Costumes for Women and Misses.
Claims use since Aug. 7, 1928.

Ser. No. 271,428. THE BUCKEYE OVERALL COMPANY, Versailles, Coldwater, and Greenville, Ohio. Filed Aug. 23, 1928.

**SKY-PILOT**

For Overalls, Coveralls; Dress, Negligee, and Work Shirts; Coats for Men, Youths, and Boys; Vests, Pants; Frocks for Women, Misses, and Children; Smocks, Work Aprons, Play Suits, and Baseball Suits.
Claims use since July 30, 1928.

Ser. No. 271,508. THE PREMIER HOSIERY CO., Cincinnati, Ohio. Filed Aug. 24, 1928.

Pointsetta

For Hosiery.
Claims use since Oct. 20, 1922.

Ser. No. 271,876. CAMPBELL, INC., Chicago, Ill. Filed Sept. 4, 1928.

THISTLEWEIGHT

For Men's, Women's, and Children's Hosiery, Especially Silk Hosiery.
Claims use since Apr. 5, 1928.

Ser. No. 271,887. DAVID FELDMAN, doing business as Feldman and Sons, Baltimore, Md. Filed Sept. 4, 1928.

**Senator**

For Work Shirts.
Claims use since Aug. 20, 1928.

Ser. No. 272,186. D. P. STEARNS & CO., Chicago, Ill. Filed Sept. 10, 1928.

**HIGHWAY**

For Hosiery and Knitted and Textile Fabric Underwear for Men, Women, and Children.
Claims use since July 11, 1928.

Ser. No. 272,699. CLUETT, PEABODY & CO., INC., Troy, N. Y. Filed Sept. 20, 1928.

GOLDEN ARROW

The lining indicates the color gold.
For Collars.
Claims use since Aug. 29, 1928.

Ser. No. 272,739. THE SHIRTCRAFT COMPANY, INC., New York, N. Y. Filed Sept. 20, 1928.



The horizontal lining in the drawing indicates the color blue. The vertical lining in the drawing indicates the color red.
For Men's and Boys' Work, Dress, and Negligee Shirts, and Collars.
Claims use since Aug. 3, 1927.

Ser. No. 272,861. AARON GOLDSTEIN & CO., INC., New York, N. Y. Filed Sept. 24, 1928.

SAGE

For Women's Coats.
Claims use since Aug. 1, 1928.

Ser. No. 272,939. FLYING TOGS, INC., Inglewood, Calif. Filed Sept. 25, 1928.

**BLUE RIBBON**

For Aviators' Helmets; Aviators' Garments—Namely, All-in-One Leather Oversuits.
Claims use since Dec. 20, 1927.

Ser. No. 272,973. THE BLOCH COMPANY, Cleveland, Ohio Filed Sept. 26, 1928.

**Eddington Park**

For Men's Suits and Overcoats.
Claims use since Aug. 24, 1928.

## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 246,635. SAN FRANCISCO ASSOCIATION FOR THE BLIND, San Francisco, Calif. Filed Mar. 30, 1927.

**BLINDCRAFT**

For Rugs and Mats Which are Woven, Knitted, or Sewn Together and Made from Cotton, Wool, Grass, or Hemp.
Claims use since 1916.



Ser. No. 266,637. INTERNATIONAL WORSTED MILLS, Methuen, Mass., and New York, N. Y. Filed Jan. 25, 1928.



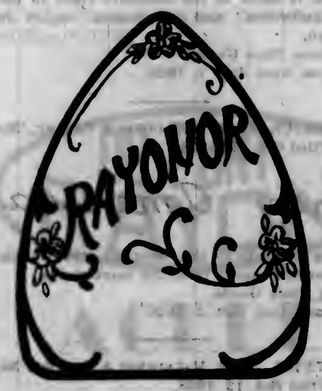

For Worsted Goods in the Piece.
Claims use since about Oct. 1, 1926.

Ser. No. 263,232. S. STEIN & CO., New York, N. Y. Filed Mar. 15, 1928.

LLAMORA

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since Jan. 17, 1928.

Ser. No. 266,469. LE NORE, INC., Chicago, Ill. Filed May 16, 1928.




For Silk in the Piece.
Claims use since Dec. 20, 1927.

Ser. No. 271,666. S. STEIN & CO., New York, N. Y. Filed Aug. 28, 1928.




*"The Mello-finished Worsted"*

The words "Finished Worsted" are disclaimed apart from the mark shown.
For Woolen Goods in the Piece and in Cut Lengths.
Claims use since Apr. 7, 1922.

Ser. No. 272,006. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Sept. 6, 1928.

Society

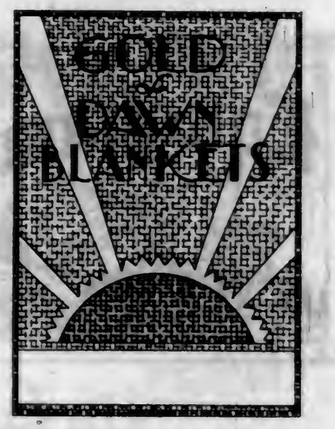
Applicant is owner of registration No. 124,991 for the word "Society."
For Rayon Piece Goods.
Claims use since Jan. 14, 1921.

Ser. No. 272,194. THE ATLANTIC MILLS, Olneyville, R. I., and Stottville, N. Y. Filed Sept. 11, 1928.

MASTER FABRICS

No claim is made to the word "Fabrics" except in connection with the mark as shown.
For Woolen and Worsted Fabrics for Coats and Dresses for Women's Wear.
Claims use since about May, 1928.

Ser. No. 272,196. BULLOCK'S, INC., Los Angeles, Calif. Filed Sept. 11, 1928.




The lining set forth in the drawing indicates the color yellow and that used in the sun is gold. Applicant disclaims the word "Blankets" apart from the mark shown.
For Textile Woven Blankets of Wool and of Part Wool and Part Cotton.
Claims use since July 19, 1928.

Ser. No. 272,847. ARTLOOM CORPORATION, Philadelphia, Pa. Filed Sept. 24, 1928.

ARAK

For Textile Rugs.
Claims use since Apr. 1, 1924.

Ser. No. 273,099. JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed Sept. 28, 1928.




No exclusive rights to the words "Woven Awning Stripe Double Ply Warp and Filling" per se are claimed.
For Woven Awning Stripe in the Piece.
Claims use since Sept. 21, 1928.

Ser. No. 273,174. ARTLOOM CORPORATION, Philadelphia, Pa. Filed Oct. 1, 1928.

ARTISTAN

For Textile Rugs.
Claims use since Apr. 3, 1923.

Ser. No. 273,217. THE WOOLEN CORPORATION OF AMERICA, New York, N. Y. Filed Oct. 1, 1928.



The lining on the drawing merely indicates shading.
For Wool, Worsted, Cotton, Silk, Rayon, Linen, and/or Combinations Thereof in the Piece.
Claims use since Nov. 10, 1926.

Ser. No. 273,303. LINCOLNSFIELD MILLS, Boston, Mass. Filed Oct. 3, 1928.

Lincolnsfield

For Worsted Piece Goods.
Claims use since Sept. 15, 1927.

Ser. No. 273,669. PECK & PECK, New York, N. Y. Filed Oct. 11, 1928.

handwoven
hillbilly homespun

No claim is made to the exclusive right to use of the words "Handwoven" and "Homespun" apart from the mark shown.
For Woolen Piece Goods.
Claims use since July 1, 1928.

Ser. No. 273,704. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 12, 1928.

Early American

No claim is made to the exclusive right to use of the word "American" apart from the mark shown.
For Silk Piece Goods.
Claims use since Nov. 1, 1926.

Ser. No. 273,705. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 12, 1928.

Trail of The Forty-Niners

For Silk Piece Goods.
Claims use since about September, 1927.



Ser. No. 273,706. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 12, 1928.

Gardens of Old Salem

For Silk Piece Goods.
Claims use about September, 1927.

Ser. No. 273,707. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 12, 1928.

Old Sampler Paul Revere

For Silk Piece Goods.
Claims use since about September, 1927.

Ser. No. 273,751. NAT. TEX. DIST. CORP., New York, N. Y. Filed Oct. 12, 1928.

Natexco

For Textile Blankets, Sheets, Pillowcases, Bed Covers, Quilts, and for Wool, Silk, Cotton, Rayon, Linen, Worsted, Serge, Broadcloth, Mohair, Wool and Silk, Wool and Cotton, Wool and Rayon, Silk and Cotton, Rayon and Cotton Goods in the Piece.
Claims use since March, 1928.

## CLASS 43.

### Thread and Yarn.

Ser. No. 272,098. DU PONT RAYON COMPANY, Buffalo, N. Y. Filed Sept. 8, 1928.

DU PONT
RAYON

ACELE

No claim is made to the word "Rayon" apart from the mark shown.
For Cellulose-Acetate Yarns, Threads, and Filaments.
Claims use since Aug. 14, 1928.

## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 265,730. PARKER V. LUCAS, doing business as Medical Sundries Company, Dallas, Tex. Filed May 1, 1928.

M.W.IMPS

For Sanitary Protector Kit Containing Prophylactic Rubber Articles for Protection Against Communicable Diseases.
Claims use since June 1, 1927.

Ser. No. 272,752. COOLING DEVICES (AMERICA) LTD., New York, N. Y. Filed Sept. 21, 1928.

Scene

For Massaging Devices.
Claims use since about Aug. 1, 1928.

Ser. No. 273,334. VAPOHALE LABORATORIES, INC., New York, N. Y. Filed Oct. 3, 1928.

VAPOHALE

For Electric Vaporizers.
Claims use since Aug. 22, 1928.

## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 272,829. MOUNT ZIRCON SPRING WATER COMPANY, Rumford, Me. Filed Sept. 22, 1928.




Applicant claims ownership of registered Trade-Mark No. 30,629, issued Oct. 5, 1897. The words "Water of Health" are disclaimed apart from the other features of the mark shown in the drawing.
For Spring Water and Ginger Ale.
Claims use since Jan. 1, 1920.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 254,922. JOE LOWE CO. INC., Brooklyn, N. Y. Filed Sept. 19, 1927.



The picture shown in the drawing is fanciful. No registration rights are herein claimed for the words "Dain-tee Doughnuts" except in the particular arrangement and association in which they appear with the rest of the mark shown on the drawing.
For Doughnuts.
Claims use since Jan. 1, 1927.

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Ser. No. 255,390. RED SUN PRODUCTS CO., Chicago, Ill. Filed Sept. 29, 1927.

RED SUN

For Malt Syrup for Food Purposes.
Claims use since Aug. 16, 1920.

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Ser. No. 256,253. HOLSTEIN HARVEY, INC., Wilmington, Del. Filed Oct. 18, 1927.




No claim is made to the name "Arabian" apart from the mark as shown. The drawing is lined to indicate red.
For Coffee.
Claims use since June, 1927.

Ser. No. 260,346. PABST CORPORATION, Milwaukee, Wis. Filed Jan. 19, 1928.




The drawing is lined to indicate brown and green.
For Malt Syrup.
Claims use since Dec. 31, 1927.

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Ser. No. 262,355. GILMER GROCERY COMPANY, Indianola, Miss., and Memphis, Tenn. Filed Feb. 28, 1928.




For Wheat Flour.
Claims use since Jan. 15, 1928.

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Ser. No. 262,619. JACK MINTZ, doing business as Capt. Post Horse Radish & Pickle Co., Inc., New York, N. Y. Filed Mar. 5, 1928.



The drawing is lined for red.
For Horse-Radish.
Claims use since Apr. 15, 1830.



Ser. No. 263,229. RUTHERFORD CHILE CO., Kansas City, Mo. Filed Mar. 15, 1928.




For Canned Beans Commonly Called Chili Beans Adapted for Making Chile con Carne, and Chili Powder in the Nature of a Seasoning for Soups, Stews, and Chile con Carne.
Claims use since Jan. 2, 1923.

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Ser. No. 263,474. H. JEVNE CO., Los Angeles, Calif. Filed Mar. 20, 1928.

"35"

For Coffee.
Claims use since prior to Jan. 1, 1910.

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Ser. No. 264,185. NOAH M. WHEATLEY, doing business as Old Mission Fig Bar Co., Oakland, Calif. Filed Apr. 2, 1928.

Old Mission

The lining expresses the color orange.
For Fig Bars (a Bakery Product).
Claims use since July 1, 1927.



Ser. No. 265,074. SUN SHINE LABORATORIES, Colony, Kans. Filed Apr. 18, 1928.




The lining on the drawing denotes the color red.
For Feed-Balancing Preparations for Livestock and Poultry, Including Mineral Supplement Ration.
Claims use since Jan. 1, 1928.

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Ser. No. 266,268. JACOB S. POLEWSKY, New York, N. Y. Filed May 11, 1928.




For Barley-Malt Extract.
Claims use since Mar. 1, 1928.

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Ser. No. 267,906. THE URMA PRODUCTS COMPANY, Louisville, Ky. Filed June 12, 1928.

URMA

For Canned Fruits—Namely, Peaches, Berries, Pears, Pineapple, Apricots, Fruits for Salad, Canned Cherries, and Fruit Preserves; Canned Vegetables—Namely, Corn, Tomatoes, String Beans, Spinach, Peas, Mixed Vegetables, Beans, and Sweet Potatoes; Apple Butter, Evaporated Milk, Olives, Pickles, Salad Dressing, Table Syrup, Canned Kidney Beans, Canned Red Beans, Ketchup, Horse-Radish, Coffee, Rolled Oats, Canned Pork and Beans, Maraschino Cherries, Honey, Mincemeat, Macaroni, Spaghetti, Noodles, Peanut Butter, Wheat Flour, Pancake Flour, Buckwheat Flour, Jelly Powders, Gelatine, Wheat Cereals, Food-Flavoring Extracts, Rice, Spices, Yeast, Cocoa, Jelly, Cornstarch, Hominy, Canned Pumpkins.
Claims use since 1921.

Ser. No. 268,671. SIMON BITTERMAN, doing business as Jeru Artichoke Products Company, Denver, Colo. Filed June 26, 1928.

JERU

For Dried Jerusalem Artichoke Flakes.
Claims use since Dec. 10, 1926.

Ser. No. 268,917. COMMANDER MILLING COMPANY, Minneapolis, Minn. Filed June 30, 1928.



COMMODORE

For Wheat Flour.
Claims use since about Jan. 1, 1928.

Ser. No. 268,994. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Filed July 2, 1928.




MOUNT PAC PRODUCT

No claim is made to the words "Honey" and "Product" apart from the mark shown in the drawing.
For Honey.
Claims use since June 1, 1928.

Ser. No. 270,156. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Filed July 26, 1928.

Touring

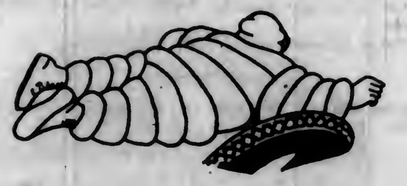
For Cocoa, Chocolate, Condensed Milk, and Evaporated Milk.
Claims use since January, 1928.

Ser. No. 270,158. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Filed July 26, 1928.



For Cocoa, Chocolate, Chocolate Candy and Bonbons, Condensed Milk, Evaporated Milk, and Cheese.
Claims use since March, 1928.

Ser. No. 270,159. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Filed July 26, 1928.



For Cocoa, Chocolate, Chocolate Candy and Bonbons, Condensed Milk, Evaporated Milk, and Cheese.
Claims use since March, 1928.

Ser. No. 271,074. NORFOLK PACKING CO., Norfolk, Nebr. Filed Aug. 15, 1928.




No claim is made to the word "Select" apart from the mark as shown.
For Canned Vegetables, Canned Pork and Beans, Canned Sauerkraut, and Canned Hominy.
Claims use since 1925.



Ser. No. 271,581. WALLACH & CO., Brooklyn, N. Y. Filed Aug. 25, 1928.

Tween Deal

For Chocolates and Candies.
Claims use since Apr. 1, 1928.

Ser. No. 271,619. THEROS PAPPAS, Dallas, Tex. Filed Aug. 27, 1928.

MELBA

SEAL OF QUALITY

The lining of drawing is for shading and not for color.
For Table Syrup.
Claims use since June 25, 1927.

Ser. No. 271,686. DAVIS STANDARD BREAD CO., INCORPORATED, Los Angeles, Calif. Filed Aug. 29, 1928.



No claim is made to the word "Donuts" or the representation of a doughnut apart from the mark as shown in the drawing.
For Doughnuts.
Claims use since Mar. 1, 1925.

Ser. No. 271,716. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Aug. 29, 1928.

HI-YIELD

For Powder Preparation Used in Baking to Produce a Finer Texture, a Thinner and Better Colored Crust, and to Aid in Preventing to Stale and Holding the Shape of the Bread and Cake.
Claims use since March, 1923.

Ser. No. 271,906. SAN DIMAS ORANGE GROWERS ASSOCIATION, San Dimas, Calif. Filed Sept. 4, 1928.

El Capitan

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Feb. 26, 1910.

Ser. No. 271,968. EUGENE LOEB, doing business as Loeb's Dietetic Food Bakery, New York, N. Y. Filed Sept. 6, 1928.




For Gluten Bread, Dietetic Almond Breadsticks, Gluten Noodles, Gluten Zwieback, Gluten Almond Zwieback, Gluten Cracker Meal, Dietetic Lady Fingers, Dietetic Cocoa, Sugar-Free Dessert, Casein Muffins, Casein Bread, Bran Wafers, Mineral Oil for Cooking, India Gum for the Purpose of Binding and Keeping Food Together, Dietetic Sponge Cookies, Dietetic Butter Cookies, Dietetic Almond Macaroons, Dietetic Chocolate, Chocolate Almond Bars, Gluten Flour, Gluten Breakfast Cereal, Dietetic Fruit in Cans, Casein Flour, Bran for Food Purposes, Table Syrup, Dietetic Breadsticks, Aerated Gluten Bread.
Claims use since October, 1913.

Ser. No. 272,048. OLYMPIA CANNING COMPANY, Olympia, Wash. Filed Sept. 7, 1928.

CLASS A

Applicant is the owner of Certificate No. 193,285, dated Dec. 28, 1924.
For Canned Vegetables.
Claims use since April, 1912.

Ser. No. 272,163. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio. Filed Sept. 10, 1928.

Amandola

For Candy.
Claims use since Apr. 1, 1928.

Ser. No. 272,444. STANTON MILLING & SALES CO., Los Angeles, Calif. Filed Sept. 14, 1928.

STANLAR

For Fish Meal.
Claims use since Aug. 1, 1928.

Ser. No. 272,571. THEODOR MUNCK, Los Angeles, Calif. Filed Sept. 17, 1928.




The words "Brand" and "Trade-Mark" are disclaimed apart from the mark shown. The shading of the letters "M N X" is to designate the color red.
For Coffee.
Claims use since Aug. 1, 1928.

Ser. No. 272,585. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed Sept. 17, 1928.

Dextrolac

For Milk Modifier for Infant Feeding.
Claims use since Oct. 3, 1927.

Ser. No. 272,598. FRANK T. CAUGHEY COMPANY, Detroit, Mich. Filed Sept. 18, 1928.




No claim is made by applicant to the words "Scratch Feed" apart from the mark as shown. The drawing is lined to show the colors red and blue, the vertical lines red, and horizontal lines blue.
For Scratch Feeds.
Claims use since Jan. 1, 1910.

Ser. No. 272,682. VINO BAR CORPORATION OF AMERICA, Los Angeles, Calif. Filed Sept. 19, 1928.

Y-NIZED

For Raisins and Dried Fruit.
Claims use since Aug. 1, 1928.

Ser. No. 272,692. FREDERICK BROWN, doing business as Brown's, Paterson, N. J. Filed Sept. 20, 1928.

Brown's

No registration rights are claimed in the word "Brown's." The shading of drawing indicates the color blue.
For Bread.
Claims use since Mar. 20, 1928.

Ser. No. 272,840. WHITE-STOKES CO. INC., Chicago, Ill. Filed Sept. 22, 1928.

BIG CHIEF

For Devil's-Food-Cake Mix, Spice-Cake Mix, White-Cake Mix, Marshmallow Powder, Pie Thickener, Special-Process Cocoa Powder, Homade-Cookie Mix, and Oat Meal-Cookie Mix.
Claims use since May 4, 1928.

Ser. No. 272,868. DAVIS PRODUCTS CO., Winchester, Va. Filed Sept. 24, 1928.




No claim is made to the words "Home Made" apart from the mark shown.
For Mayonnaise.
Claims use since Mar. 1, 1928.



Ser. No. 272,952. PROVIDENCE MALT COMPANY, Providence, R. I. Filed Sept. 25, 1928.




For Malt Syrup.
Claims use since July 15, 1928.

Ser. No. 272,977. CHURCH & KNOWLTON, Salinas, Calif. Filed Sept. 26, 1928.

Red Coach Inn

For Fresh Vegetables and Fresh Cantaloupes.
Claims use since Oct. 15, 1927.

Ser. No. 273,065. LEON PERUZZI, doing business as Red Mule Malt Co., Camden, N. J. Filed Sept. 27, 1928.




No claim is made to the word "Brand" apart from the mark shown.
For Malt Syrup.
Claims use since March, 1928.

Ser. No. 273,070. PURITAN CANDY COMPANY, Milwaukee, Wis. Filed Sept. 27, 1928.



The words "Candy" and "Toasted" are disclaimed apart from the mark as shown. The lining shown on the drawing is to designate the color red. The pictorial representation of the shape of the goods is disclaimed.
For Candy.
Claims use since July 20, 1928.

Ser. No. 273,148. THEODORE C. LEEDOM, doing business as The Red Top Coffee Co., Toledo, Ohio. Filed Sept. 29, 1928.

MOTHER HUBBARD

For Coffee, Tea, and Cocoa.
Claims use since May, 1928.

Ser. No. 273,574. BLACK KAT KITCHEN COMPANY, South Bend, Ind. Filed Oct. 10, 1928.

Black Kat Kitchen Co.



The words "Kitchen Co." are not herein claimed as a feature of the trade-mark.
For Sandwiches.
Claims use since Oct. 1, 1927.

Ser. No. 273,617. VENICE CELERY DISTRIBUTORS, Los Angeles, Calif. Filed Oct. 10, 1928.

# FUL-MOON

For Fresh Vegetables.
Claims use since July 24, 1928.

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Ser. No. 273,869. THE GOUDEY GUM COMPANY, doing business as Around The World Gum Co., Allston, Boston, Mass. Filed Oct. 16, 1928.

AROUND the WORLD

For Chewing Gum.
Claims use since Aug. 17, 1928.

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## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 266,156. UNITED ARTS AND CRAFTS, INC., New York, N. Y. Filed May 9, 1928.




The portrait appearing as a feature of the mark is fanciful.
For Art Goods—Namely, Bronzes and Statuettes.
Claims use since Jan. 1, 1928.

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Ser. No. 269,903. GEORGE MARGOLIN, New York, N. Y. Filed July 20, 1928.

LITHOGRAPH

For Advertising and Display Signs of the Type Where the Wording Can be Changed by Changing the Letters in Each Letter Space.
Claims use since Apr. 20, 1928.

Ser. No. 270,676. THE NATIONAL SIGN CO., Milwaukee, Wis. Filed Aug. 6, 1928.

# AD-LITE

For Nonelectrical Advertising Signs.
Claims use since Mar. 14, 1928.

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Ser. No. 271,515. H. H. THUMANN & SONS, Redfield, Ark. Filed Aug. 24, 1928.

MITE-NOT

For Pestproof Roosts for Fowls.
Claims use since Jan. 1, 1927.

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Ser. No. 272,078. DRAYCOTT MILLS, INCORPORATED, Fulton, N. Y. Filed Sept. 8, 1928.

PADEX
FLOOR PAD

No claim is made to the descriptive words "Floor Pad."
For Floor Pads and Sheet Fibrous or Feltlike Material Particularly Intended to Cushion and Act as Sound Insulation for Floor Coverings.
Claims use since about Jan. 15, 1928.

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Ser. No. 272,883. THE FOGARTY MANUFACTURING CO., Dayton, Ohio. Filed Sept. 24, 1928.

# DURABILT

For Nonelectrical Metal Sign.
Claims use since on or about July 13, 1928.

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Ser. No. 273,747. HELEN N. GOVE, doing business as Gove Manufacturing Company, Williamsport, Pa. Filed Oct. 12, 1928.

UNEKE FIGURETS

The word "Figurets" is disclaimed apart from the mark as shown.
For Figurettes and Models for Display or Advertising Purposes.
Claims use since Aug. 25, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

## NOVEMBER 20, 1928.

249,544. GENERAL VITALIZING TONIC IN TABLET FORM. EDGAR W. PARKER, doing business as Dr. Parker Medicine Co., Tampa, Fla.
Filed April 17, 1928. Serial No. 265,002. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,545. GENERAL VITALIZING TONIC IN TABLET FORM. EDGAR W. PARKER, doing business as Dr. Parker Medicine Co., Tampa, Fla.
Filed April 17, 1928. Serial No. 265,001. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,546. CHEWING-GUM WHISTLES. J. W. GLENN, Buffalo, N. Y.
Filed February 28, 1928. Serial No. 262,356. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,547. PHONOGRAPHS, PHONOGRAPH RECORDS, PHONOGRAPH NEEDLES, ETC. JAMES K. POLK, INCORPORATED, Atlanta, Ga.
Filed February 27, 1928. Serial No. 262,327. PUBLISHED SEPTEMBER 11, 1928. Class 36.

249,548. OPALESCENT GLASS GLOBES AND REFLECTORS. DUPLEXALITE DIVISION OF THE MILLER COMPANY, Meriden, Conn.
Filed February 16, 1928. Serial No. 261,741. PUBLISHED SEPTEMBER 11, 1928. Class 33.

249,549. POTATOES IN THEIR NATURAL STATE. NEW SWEDEN POTATO GROWERS, Idaho Falls, Idaho.
Filed February 13, 1928. Serial No. 261,642. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,550. WOMEN'S AND GIRLS' DRESSES. JOB-ANN TOGS, INCORPORATED, Cleveland, Ohio.
Filed February 13, 1928. Serial No. 261,635. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,551. ELECTRIC SWITCHES, SIGNALS, AND SOLENOIDS USED ON LIGHT SIGNALS FOR ATTACHMENT TO VEHICLES FOR INDICATING CHANGES OF DIRECTION THEREOF. MICO-PRODUCTS, INC., Ampere-Newark, N. J.
Filed February 8, 1928. Serial No. 261,374. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,552. PIECES OF NICKEL. THE INTERNATIONAL NICKEL COMPANY, New York, N. Y.
Filed February 4, 1928. Serial No. 261,194. PUBLISHED SEPTEMBER 4, 1928. Class 14.

249,553. CHILDREN'S JUMPING OR SEESAW AMUSEMENT DEVICE. MARION D. SHAKESHAFT, doing business as St. Nick's Toy Company, Topeka, Kans.
Filed February 2, 1928. Serial No. 261,077. PUBLISHED SEPTEMBER 4, 1928. Class 22.

249,554. BRACELETS AND WATCH BANDS. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky.
Filed April 19, 1928. Serial No. 265,129. PUBLISHED SEPTEMBER 11, 1928. Class 28.

249,555. CLOTHING—NAMELY, KNITTED RAYON UNDERWEAR FOR WOMEN. MCCREERY MANUFACTURING CO., Portland, Oreg.
Filed April 18, 1928. Serial No. 265,050. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,556. LADIES', GIRLS', AND CHILDREN'S HATS. CONSUMERS HAT FACTORY, INC., Chicago, Ill.
Filed April 18, 1928. Serial No. 265,035. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,557. LAUNDERED COLORED SHIRTS, OVERALLS, WORK COATS, AND WORK SHIRTS. THE C. B. CONES & SON MANUFACTURING COMPANY, Indianapolis, Ind.
Filed May 3, 1928. Serial No. 265,830. PUBLISHED AUGUST 21, 1928. Class 39.

249,558. WOMEN'S LEATHER AND FABRIC SHOES. R. H. MACY & CO., INC., New York, N. Y.
Filed May 1, 1928. Serial No. 265,732. PUBLISHED AUGUST 28, 1928. Class 39.

249,559. PAJAMAS AND MEN'S DRESS SHIRTS AND TETXILE UNDERWEAR. LESTER J. ALEXANDER, New York, N. Y.
Filed April 30, 1928. Serial No. 265,606. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,560. DISINFECTANT AND CLEANSER. SALOL CHEMICAL CO., Chicago, Ill.
Filed April 28, 1928. Serial No. 265,575. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,561. SALVE OR OINTMENT AND AN EMOLLIENT FOR WOUNDS, SORES, CUTS, BURNS, ABRASIONS, BITES, STINGS OF INSECTS, PILES, ULCERS, ECZEMA, AND ALL SKIN DISEASES. MANHATTAN DRUG COMPANY, Brooklyn, N. Y.
Filed April 26, 1928. Serial No. 265,440. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,562. FOOT POWDER, FOOT-BATH TABLETS, AND CORN SOLVENTS. MANHATTAN DRUG COMPANY, Brooklyn, N. Y.
Filed April 26, 1928. Serial No. 265,439. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,563. TOOTH POWDER, TOOTH PASTE, AND TOOTH WASH. MANHATTAN DRUG COMPANY, Brooklyn, N. Y.
Filed April 26, 1928. Serial No. 265,438. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,564. CANDY. REICHARDT COCOA & CHOCOLATE CO., INC., New York, N. Y.
Filed April 25, 1928. Serial No. 265,405. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,565. BEDDING—NAMELY, PILLOWS, MATTRESSES, AND THE BEDS PROPER. MAX E. LICHTER, doing business as The Fulton Mattress & Bedding Co., New York, N. Y.
Filed April 25, 1928. Serial No. 265,389. PUBLISHED SEPTEMBER 11, 1928. Class 32.

249,566. WOMEN'S, CHILDREN'S, AND MISSES' HATS. OGUS, RABINOVICH & OGUS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,342. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,567. WOMEN'S, CHILDREN'S, AND MISSES' HATS. OGUS, RABINOVICH & OGUS, INC., New York, N. Y.
Filed April 24, 1928. Serial No. 265,341. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,568. BOOTS AND SHOES MADE OF LEATHER AND TEXTILE FABRIC. THE SELBY SHOE CO., Portsmouth, Ohio.
Filed April 23, 1928. Serial No. 265,299. PUBLISHED AUGUST 28, 1928. Class 39.

249,569. FINGER RINGS, ORNAMENTAL PINS, AND OTHER KINDS OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. S. M. & H. COMPANY, New York, N. Y.
Filed April 23, 1928. Serial No. 265,296. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,570. FRESH GRAPES. COACHELLA VALLEY GRAPE GROWERS ASSN., Coachella, Calif.
Filed April 21, 1928. Serial No. 265,197. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,571. NONRUSTING, NONSTAINING ALLOY STEELS. CYCLOPS STEEL COMPANY, INC., Titusville, Pa.
Filed April 20, 1928. Serial No. 265,145. PUBLISHED AUGUST 28, 1928. Class 14.

249,572. BOYS' OVERCOATS. S. GROSSMAN & Co., New York, N. Y.
Filed July 5, 1928. Serial No. 269,115. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,573. GASOLINE. LUBRITE REFINING COMPANY, St. Louis, Mo.
Filed July 5, 1928. Serial No. 269,124. PUBLISHED SEPTEMBER 4, 1928. Class 15.

249,574. LADIES' HOSIERY. NATIONAL DEPARTMENT STORES INC., New York, N. Y.
Filed July 5, 1928. Serial No. 269,137. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,575. COMBINATIONS—THAT IS, GARMENTS CONSISTING OF AN UNDERWAIST AND DRAWERS IN ONE PIECE OR ATTACHED TOGETHER INTO ONE PIECE MADE OF TEXTILE FABRICS AND FOR USE BY GIRLS AND WOMEN. E. H. HORWOOD & Co., Hoboken, N. J., and New York, N. Y.
Filed July 30, 1927. Serial No. 252,775. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,576. OVERALL JUMPERS. CHRYSLER SALES CORPORATION, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware.
Filed July 20, 1927. Serial No. 252,314. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,577. KIDNEY PLASTERS. GERARD C. DEANE, Yonkers, N. Y.
Filed July 15, 1927. Serial No. 252,091. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,578. NECKTIES. THE GLOBE CLOTHIERS, Tulsa, Okla.
Filed July 5, 1927. Serial No. 251,498. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,579. LADIES' AND MISSES' HATS. CATALINA HATS, INC., San Francisco, Calif.
Filed June 29, 1927. Serial No. 251,298. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,580. PERIODICALS PUBLISHED FROM TIME TO TIME. HARRY STEINBERG, doing business as Secret Service Publishing Company, New York, N. Y.
Filed June 18, 1927. Serial No. 250,762. PUBLISHED AUGUST 23, 1927. Class 38.

249,581. LADIES' AND MISSES' COATS AND DRESSES. THE ROSENBAUM COMPANY, Pittsburgh, Pa.
Filed July 3, 1928. Serial No. 269,038. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,582. WATCHES. EMIL BORNSTEIN INC., New York, N. Y.
Filed July 3, 1928. Serial No. 269,014. PUBLISHED SEPTEMBER 4, 1928. Class 27.

249,583. LIQUID PREPARATION FOR TREATING FLOORS AND WALLS OF TILE, TERRAZZO, MAGNESITE COMPOSITION, CORK AND CORK LINOLEUM, AND CEMENT AND CONCRETE WORK FOR SEALING AND HARDENING THE SURFACE AND MAKING THE MATERIAL RESISTANT TO ACIDS AND ALKALIES. WILLIS A. VOGEL, doing business as Voge-L-Iner Sales Co., Toledo, Ohio.
Filed July 2, 1928. Serial No. 269,008. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,584. NONFREEZING SOLUTION FOR RADIATORS. THE STANDARD LAND COMPANY, Omaha, Nebr., assignor to The W. N. F. Solution Company, Omaha, Nebr., a Corporation.
Filed July 2, 1928. Serial No. 269,003. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,585. FRATERNITY BADGES, LAPEL BUTTONS; SCARF, LAPEL, AND BREAST PINS; CUFF LINKS, TIE CLASPS, CHARMS, FINGER RINGS, BELT BUCKLES, AND ORNAMENTAL SHIELDS, ALL OF PRECIOUS METAL. THETA TAU FRATERNITY, Urbana, Ill.
Filed July 3, 1928. Serial No. 269,042. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,586. SOAPS. AMORSKIN CORPORATION, New York, N. Y.
Filed July 5, 1928. Serial No. 269,072. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,587. PERIODICAL. HYMAN SETTEL, doing business as The Credit Stores Magazine Publishing Co., New York, N. Y.
Filed July 5, 1928. Serial No. 269,094. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,588. CERTAIN NAMED WEARING APPAREL. VANITY FAIR SILK MILLS, Reading, Pa.
Filed June 15, 1928. Serial No. 268,124. PUBLISHED AUGUST 28, 1928. Class 39.

249,589. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS, ALL FOR LUBRICATING, ILLUMINATING, HEATING, AND FUEL PURPOSES; ALSO GASOLINE. VACUUM OIL COMPANY, New York, N. Y.
Filed June 15, 1928. Serial No. 268,122. PUBLISHED SEPTEMBER 11, 1928. Class 15.

249,590. WOMEN'S AND CHILDREN'S UNDERGARMENTS OF NATURAL AND ARTIFICIAL SILK, WOOL, COTTON, AND LINEN: KNITTED AND TEXTILE FABRICS—NAMELY, BLOOMERS, DRAWERS, STEP-INS, CHEMISES, SHIRTS, VESTS, NIGHTGOWNS, PAJAMAS, PETTICOATS, AND SLIPS. HENRY L. HIRSCHBERG, New York, N. Y.
Filed June 14, 1928. Serial No. 268,038. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,591. FRICTION BRAKING MECHANISM AND PARTS, RECOIL CHECKS, SHOCK-ABSORBING MECHANISMS, AND THE LIKE FOR VEHICLES. JOHN WARREN WATSON COMPANY, Philadelphia, Pa.
Filed June 13, 1928. Serial No. 268,010. PUBLISHED SEPTEMBER 11, 1928. Class 19.

249,592. KEROSENE, GASOLINE, NAPHTHA, MOTOR-LUBRICATING OIL, FUEL OIL, LUBRICATING GREASE. MACMILLAN PETROLEUM PRODUCTS COMPANY, Los Angeles, Calif.
Filed June 13, 1928. Serial No. 267,981. PUBLISHED SEPTEMBER 11, 1928. Class 15.

249,593. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS, EXTRACTS, AND CONCENTRATES FOR MAKING THE SAME. LOS ANGELES BREWING CO., Los Angeles, Calif.
Filed June 13, 1928. Serial No. 267,973. PUBLISHED SEPTEMBER 11, 1928. Class 45.

249,594. GREASELESS ANTISEPTIC HEALING CREAMS. M. M. FLERON & SON, INC., doing business as Bercy Laboratories, Trenton, N. J.
Filed June 13, 1928. Serial No. 267,944. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,595. MEDICINAL PREPARATION IN THE FORM OF A STERILE SOLUTION FOR INTRAMUSCULAR AND INTRAVENOUS INJECTIONS IN CASES OF VENEREAL AND TROPICAL DISORDERS AND FERRILE DISEASES OF THE TEMPERATE ZONES. CHEMISCHE FABRIK VON HEYDEN A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York.
Filed June 13, 1928. Serial No. 267,933. PUBLISHED SEPTEMBER 4, 1928. Class 6.



249,596. FRESH DECIDUOUS FRUITS, DRIED FRUITS, FRESH CITRUS FRUITS, FRESH VEGETABLES, FRESH CANTALOUPES, FRESH HONEY-DEWS MELONS, AND FRESH GRAPES. J. E. BLICKENSTAFF & SONS, Modesto, Calif.
Filed June 13, 1928. Serial No. 267,925. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,597. REFRIGERATION APPARATUS. WAYNE COMPANY, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md., a Corporation of Maryland.
Filed June 11, 1928. Serial No. 267,879. PUBLISHED SEPTEMBER 4, 1928. Class 31.

249,598. WHITE ENAMELED WIRE BATHROOM FIXTURES—NAMELY, TOWEL BARS, TOILET-PAPER HOLDERS, TOOTHBRUSH HOLDERS, TUMBLER HOLDERS, SOAP DISHES, ARM RACKS, SHELF BRACKETS, DISH DRAINERS, AND HOOKS. UNITED WIRE GOODS MFG. CO., New York, N. Y.
Filed June 11, 1928. Serial No. 267,876. PUBLISHED SEPTEMBER 11, 1928. Class 13.

249,599. WORK SHIRTS, WORK PANTS, AND OVERALLS. MOUNT AIRY OVERALL CO., Mount Airy, N. C.
Filed June 11, 1928. Serial No. 267,851. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,600. PORTABLE ELECTRIC APPLIANCES CONSISTING OF ELECTRIC FLATIRONS, TOASTER STOVES, GRILLS, HEATING PADS FOR GENERAL PURPOSES, AND CONDUCTOR CABLES. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed June 11, 1928. Serial No. 267,834. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,601. BOYS' AND MEN'S OUTER CLOTHING—NAMELY, SUITS, OVERCOATS, AND SPORT TOPCOATS. ALVIN C. SELIG, San Francisco, Calif.
Filed June 9, 1928. Serial No. 267,806. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,602. CLOTHING—NAMELY, MEN'S, WOMEN'S, AND CHILDREN'S SWEATERS, COATS, HOSIERY, BATH ROBES, AND WOMEN'S AND MISSES' WOOLEN DRESSES. PENDLETON WOOLEN MILLS, Portland, Oreg.
Filed June 9, 1928. Serial No. 267,793. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,603. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,771. PUBLISHED AUGUST 28, 1928. Class 39.

249,604. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,770. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,605. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,769. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,606. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,768. PUBLISHED AUGUST 28, 1928. Class 39.

249,607. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,767. PUBLISHED AUGUST 28, 1928. Class 39.

249,608. ADHESIVES OF INDIA RUBBER OR INDIA-RUBBER LATEX AND ADHESIVES OF WHICH INDIA RUBBER OR INDIA-RUBBER LATEX IS THE BASE. SAFETY GLASS AND XBTAL PRODUCTS, LIMITED, Stapleford, England.
Filed November 8, 1926. Serial No. 239,826. PUBLISHED SEPTEMBER 4, 1928. Class 5.

249,609. MEN'S AND CHILDREN'S HATS AND CAPS. REICHEL BROS., New York, N. Y.
Filed February 8, 1926. Serial No. 226,824. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,610. COFFEE. KEYSTONE GROCERY & TEA CO., Pittsburgh, Pa.
Filed November 25, 1925. Serial No. 223,848. PUBLISHED APRIL 26, 1927. Class 46.

249,611. LADIES' AND GIRLS' FROCKS AND DRESSES. SALLY FROCKS, INC., Chicago, Ill.
Filed May 12, 1927. Serial No. 248,932. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,612. LEGGINGS AND OVERGAITERS. PHOENIX OVERGAITER CO. INC., New York, N. Y.
Filed April 16, 1927. Serial No. 247,568. PUBLISHED AUGUST 28, 1928. Class 39.

249,613. PIANOS, PIANO PLAYERS, PLAYER PIANOS, ETC. THE LYRIC PIANO COMPANY, Cincinnati, Ohio.
Filed March 31, 1927. Serial No. 246,692. PUBLISHED JUNE 5, 1928. Class 36.

249,614. TOOTHBRUSHES. THE OWENS STAPLE-TIED BRUSH COMPANY, Toledo, Ohio.
Filed March 28, 1927. Serial No. 246,497. PUBLISHED SEPTEMBER 4, 1928. Class 29.

249,615. CONTACT RECTIFIERS FOR CHANGING ALTERNATING ELECTRIC CURRENT TO DIRECT CURRENT. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa.
Filed March 17, 1927. Serial No. 245,942. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,616. REDEEMABLE TRADING CERTIFICATES. S & W TRUST CORPORATION, San Francisco, Calif.
Filed March 4, 1927. Serial No. 245,228. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,617. ELECTRICAL LIGHTING FIXTURES. SKINNER-HILL CO., INC., New York, N. Y.
Filed November 5, 1927. Serial No. 257,122. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,618. CERTAIN NAMED WEARING APPAREL. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed October 28, 1927. Serial No. 256,736. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,619. RADIO RECEIVING SETS AND PARTS THEREOF, PARTICULARLY RADIO INDUCTANCE UNITS, RADIO FREQUENCY SUBPANELS AND KITS INCLUDING UNASSEMBLED ELEMENTS FORMING A RADIO RECEIVING SET. TWIN COUPLER COMPANY, INC., Poughkeepsie, N. Y.
Filed October 25, 1927. Serial No. 256,591. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,620. CERTAIN TEXTILE ARTICLES. A. S. HERRMANN, INC., New York, N. Y.
Filed October 11, 1927. Serial No. 255,914. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,621. MATTRESSES, CUSHIONS, BED SPRINGS, COTS, DIVANS, BEDSTEADS, DAY BEDS, CRIBS, CRADLES, BASSINETS, COUCHES, FEATHER BEDS, PILLOWS, AND BOLSTERS. WM. H. MCMAHEN COMPANY, Philadelphia, Pa.
Filed October 8, 1927. Serial No. 255,812. PUBLISHED SEPTEMBER 11, 1928. Class 32.

249,622. CERTAIN NAMED MEN'S WEARING APPAREL. MEN'S WEAR SERVICE CORPORATION, Chicago, Ill.
Filed September 29, 1927. Serial No. 255,420. PUBLISHED AUGUST 28, 1928. Class 39.

249,623. ROAD OIL. THE TRINIDAD LAKE PETROLEUM COMPANY, LIMITED, Brighton, Trinidad, British West Indies, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, British West Indies, a Corporation of Trinidad, British West Indies.
Filed September 17, 1927. Serial No. 254,874. PUBLISHED SEPTEMBER 4, 1928. Class 15.

249,624. EXCAVATING, ELEVATING, AND CONVEYING MACHINERY. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio.
Filed July 27, 1928. Serial No. 270,248. PUBLISHED SEPTEMBER 11, 1928. Class 28.

249,625. PHOTOGRAPHIC DEVELOPERS. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed July 27, 1928. Serial No. 270,240. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,626. CEMENT AND PASTE FOR LAYING LINOLEUM. CONGOLEUM-NAIRN, INC., Kearny, N. J.
Filed July 27, 1928. Serial No. 270,237. PUBLISHED SEPTEMBER 4, 1928. Class 5.

249,627. REPAIR PARTS FOR AIR-BRAKE EQUIPMENT—NAMELY, PISTON RINGS AND GASKETS. BRAKE EQUIPMENT AND SUPPLY COMPANY, Chicago, Ill.
Filed July 27, 1928. Serial No. 270,233. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,628. CLEANSING AND SHAVING SOAP IN SOLID, LIQUID, POWDERED, OR CREAM FORM. PACQUIN, INC., New York, N. Y.
Filed July 26, 1928. Serial No. 270,197. PUBLISHED SEPTEMBER 11, 1928. Class 4.

249,629. POLISHING CLOTHS AND POLISHING MITTENS, CHEMICALLY TREATED. FRASER PRODUCTS COMPANY, Kansas City, Mo.
Filed July 26, 1928. Serial No. 270,180. PUBLISHED SEPTEMBER 11, 1928. Class 4.

249,630. CONCENTRATE OF THE WATER-SOLUBLE CONSTITUENTS OF THE FRESH ANIMAL KIDNEY FREED FROM CONNECTIVE TISSUE, ASSOCIATED LIPOID, AND PROTEIN, AND DESIGNED FOR USE IN THE TREATMENT OF ANEMIA. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed July 26, 1928. Serial No. 270,179. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,631. PERSONAL DEODORANT. DUNCAN R. FRANKLIN, Brooklyn, N. Y.
Filed August 7, 1928. Serial No. 270,698. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,632. PERIODICAL PARTICULARLY ADAPTED TO REAL-ESTATE COMPANIES PUBLISHED FROM TIME TO TIME. BROWN & BIGELOW, St. Paul, Minn.
Filed July 25, 1928. Serial No. 270,111. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,633. PERIODICAL PARTICULARLY ADAPTED TO LAUNDRIES PUBLISHED FROM TIME TO TIME. BROWN & BIGELOW, St. Paul, Minn.
Filed July 25, 1928. Serial No. 270,109. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,634. FACE CREAMS AND LOTIONS. ELIZABETH ARDEN, INC., New York, N. Y.
Filed July 25, 1928. Serial No. 270,107. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,635. ULTRA-VIOLET-RAY TRANSMITTING GLASS. ULTRAVIOLET GLASS CORPORATION, New York, N. Y.
Filed July 24, 1928. Serial No. 270,100. PUBLISHED SEPTEMBER 11, 1928. Class 33.

249,636. MONTHLY MUSICAL PERIODICAL. OXFORD UNIVERSITY PRESS, AMERICAN BRANCH, New York, N. Y.
Filed July 24, 1928. Serial No. 270,092. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,637. PREPARATION FOR BEAUTIFYING THE SKIN AND COMPLEXION USED INTERNALLY AND EXTERNALLY. WILLIAM C. NEILLY, New York, N. Y.
Filed July 24, 1928. Serial No. 270,090. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,638. SOLUBLE PINE OIL USED AS A DISINFECTANT AND FOR CLEANING PURPOSES. KALI MANUFACTURING CO., Philadelphia, Pa.
Filed July 24, 1928. Serial No. 270,083. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,639. MAGAZINE. JEAN B. DE BELTRAND, New York, N. Y.
Filed July 24, 1928. Serial No. 270,071. PUBLISHED SEPTEMBER 11, 1928. Class 38.

249,640. PERIODICALS. CHARLES K. VAN RIPER, Monterey, Calif.
Filed July 23, 1928. Serial No. 270,063. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,641. NAIL POLISH. SAMUEL BONAT & BRO., New York, N. Y.
Filed July 23, 1928. Serial No. 270,007. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,642. COLLOIDAL PREPARATION OF CASTOR OIL EMPLOYED IN THE USUAL DOSES IN WHICH CASTOR OIL ITSELF IS USED AND DESIGNED FOR USE AS A LAXATIVE AND CATHARTIC. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed August 4, 1928. Serial No. 270,579. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,643. HAIR NETS. NEW YORK MERCHANDISE CO., INC., New York, N. Y.
Filed August 3, 1928. Serial No. 270,554. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,644. PERFUMES, TOILET WATER, FACE POWDER, AND TALCUM POWDER. LENTHERIC, INCORPORATED, New York, N. Y.
Filed August 3, 1928. Serial No. 270,552. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,645. COUGH SYRUP. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,490. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,646. MEDICINE FOR TREATMENT OF CONSTIPATION. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,489. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,647. MEDICINE FOR TREATMENT OF HYSTERIA, MELANCHOLIA, INSOMNIA, AND NERVOUS HEADACHE. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,488. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,648. MEDICINE FOR THE TREATMENT OF DROPSY, CYSTITIS, PROSTATITIS, AND URETHRITIS. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,487. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,649. MEDICINE FOR THE TREATMENT OF COLDS. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,486. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,650. MEDICINE FOR THE TREATMENT OF CHOLERA MORBUS, DIARRHŒA; ALSO RHEUMATIC SCIATICA, GOUT, AND GRIPPE PAINS, DYSMENORRHŒA, MIGRAINE, AND INSOMNIA. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,485. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,651. NERVE TONIC AND STIMULANT IN THE TREATMENT OF MENTAL AND PHYSICAL EXHAUSTION, INSOMNIA, DEPRESSION, AND NEURALGIA. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,482. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,652. JEWELRY FOR PERSONAL WEAR COMPOSED WHOLLY OF PRECIOUS METAL, NOT INCLUDING WATCHES. F. & F. FELGER, INC., Newark, N. J.
Filed December 23, 1927. Serial No. 259,303. PUBLISHED APRIL 3, 1928. Class 28.

249,653. MINERAL WATERS, CARBONATED MINERAL WATERS, AND CARBONATED WATERS, NATURALLY OR OTHERWISE FLAVORED. JOHN W. LANGDON, Walla Walla, Wash.
Filed December 10, 1927. Serial No. 258,751. PUBLISHED SEPTEMBER 11, 1928. Class 45.



249,654. FINGER RINGS. J. R. WOOD & SONS, New York, N. Y.
Filed December 9, 1927. Serial No. 258,707. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,655. PNEUMATIC TIRES. INDIA TIRE & RUBBER COMPANY, Akron, Ohio.
Filed December 2, 1927. Serial No. 258,335. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,656. CHARTERS, ALLUMINATED MOTTOES, ETCHINGS, PHOTOGRAPHS OF MEMBERS OF THE BRANCH CHAPTERS OR OFFICERS OR GROUPS, CERTIFICATES, PRINTED MEMBERSHIP CARDS, PAMPHLETS, PRINTED LITERATURE PUBLISHED AT DIFFERENT TIMES SOLD TO THE DIFFERENT BRANCHES OF THE ORGANIZATION. THE CHI OMEGA FRATERNITY, Cincinnati, Ohio.
Filed November 26, 1927. Serial No. 258,067. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,657. PREPARATION FOR STIMULATING CONTRACTIONS OF UTERINE AND OTHER UNSTRIPED MUSCULAR FIBERS. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 18, 1927. Serial No. 257,741. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,658. CANES, PARASOLS, AND UMBRELLAS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed November 17, 1927. Serial No. 257,689. PUBLISHED AUGUST 21, 1928. Class 41.

249,659. CANDY. THE ROBT. F. MACKENZIE CO., Cleveland, Ohio.
Filed November 11, 1927. Serial No. 257,426. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,660. AVIATION BOOKS. GLENN ELLIOTT, doing business as U. S. Volunteer Air Service, New York, N. Y.
Filed November 11, 1927. Serial No. 257,406. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,661. PREPARATION FOR RAISING BLOOD PRESSURE. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed November 9, 1927. Serial No. 257,306. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,662. DRIED SAUSAGE. OTTO ROTH & COMPANY INC., New York, N. Y.
Filed November 7, 1927. Serial No. 257,189. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,663. DRIED SAUSAGE. OTTO ROTH & CO. INC., New York, N. Y.
Filed November 7, 1927. Serial No. 257,188. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,664. DRIED SAUSAGE. OTTO ROTH & COMPANY INC., New York, N. Y.
Filed November 7, 1927. Serial No. 257,186. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,665. COATS, JACKETS, JUMPERS, MACKINAWS, AND VESTS FOR MEN, WOMEN, BOYS, AND GIRLS. KOLLINER-NEWMAN MFG. CO., Stillwater, Minn.
Filed June 29, 1928. Serial No. 268,871. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,666. OUTER SHIRTS—NAMELY, WORK, DRESS, AND FLANNEL SHIRTS OF COTTON, WOOLEN, AND FLANNEL MATERIALS FOR MEN AND BOYS. THE CHAS. ALSHULER MFG. CO., Racine, Wis.
Filed June 29, 1928. Serial No. 268,834. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,667. STOCK CRIMPED STEEL RIBBON FOR MAKING EXPANDER RINGS FOR PISTON RINGS OF INTERNAL-COMBUSTION ENGINES. WILLIAM H. THOMSON, doing business as Thomson Mfg. Co., Peoria, Ill.
Filed June 28, 1928. Serial No. 268,825. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,668. PATTERNS FOR WOMEN'S WEARING APPAREL. HELEN HALL SMITH, doing business as Sye Pattern Co., St. Louis, Mo.
Filed June 28, 1928. Serial No. 268,821. PUBLISHED SEPTEMBER 11, 1928. Class 26.

249,669. CIGARS. PARK & TILFORD, New York, N. Y.
Filed June 28, 1928. Serial No. 268,805. PUBLISHED SEPTEMBER 11, 1928. Class 17.

249,670. LOUD SPEAKERS AND PARTS THEREOF FOR USE IN CONNECTION WITH RADIO RECEIVING SETS. TEMPLE, INC., Chicago, Ill.
Filed June 27, 1928. Serial No. 268,755. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,671. KNITTED AND FLAT UNDERWEAR AND HOSIERY FOR LADIES, MISSES, AND CHILDREN. ROYAL BEAUTY SILK HOSIERY CO., New York, N. Y.
Filed June 27, 1928. Serial No. 268,751. PUBLISHED AUGUST 21, 1928. Class 39.

249,672. LEATHER BOOTS AND SHOES. MONTGOMERY WARD & CO., INCORPORATED, Chicago, Ill.
Filed June 27, 1928. Serial No. 268,743. PUBLISHED AUGUST 28, 1928. Class 39.

249,673. FABRICS IN THE PIECE MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed June 26, 1928. Serial No. 268,677. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,674. INDORSING-MACHINE INK. THE AMERICAN PERFORATOR CO., Chicago, Ill.
Filed June 26, 1928. Serial No. 268,669. PUBLISHED SEPTEMBER 11, 1928. Class 11.

249,675. RADIO ELECTRON TUBES. UNIVERSAL ELECTRIC LAMP CO., Newark, N. J.
Filed June 25, 1928. Serial No. 268,655. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,676. RADIO ELECTRON TUBES. UNIVERSAL ELECTRIC LAMP CO., Newark, N. J.
Filed June 25, 1928. Serial No. 268,654. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,677. MOISTENING AND FLAVORING PRODUCT USED WITH CIGARS, CIGARETTES, AND TOBACCO. THE RUMIDOR CORPORATION, Union City, N. J.
Filed June 25, 1928. Serial No. 268,634. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,678. SOAP. NANNT, INC., Long Island City, N. Y.
Filed June 25, 1928. Serial No. 268,624. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,679. SUITCASES. THE HORTON & HUBBARD MFG. CO., East Somerville, Mass.
Filed June 25, 1928. Serial No. 268,610. PUBLISHED SEPTEMBER 4, 1928. Class 3.

249,680. MEN'S, WOMEN'S, AND CHILDREN'S STRAW, PANAMA, AND FELT HATS. BRONSTON BROS. AND CO., INC., New York, N. Y.
Filed June 25, 1928. Serial No. 268,578. PUBLISHED AUGUST 28, 1928. Class 39.

249,681. SHOE COUNTERS. GEORGE W. BAKER SHOE CO., Brooklyn, N. Y.
Filed June 25, 1928. Serial No. 268,572. PUBLISHED AUGUST 28, 1928. Class 39.

249,682. FERROUS AND NONFERROUS METAL ALLOYS AND CASTINGS. WM. J. SWEET FOUNDRY CO., Irvington, (Newark), N. J.
Filed June 23, 1928. Serial No. 268,569. PUBLISHED SEPTEMBER 4, 1928. Class 14.

249,683. WOMEN'S, MISSES', AND CHILDREN'S HATS. J. & M. COHN, New York, N. Y.
Filed June 23, 1928. Serial No. 268,531. PUBLISHED AUGUST 28, 1928. Class 39.

249,684. METAL-CLEANING COMPOUND. NOCK CHEMICAL LABORATORY, Pittsburgh, Pa.
Filed June 22, 1928. Serial No. 268,508. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,685. MEDICINE FOR THE TREATMENT OF CHRONIC RHEUMATIC, HEPATIC, SCROFULOUS SKIN, AND SYPHILITIC AFFECTIONS. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,481. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,686. MEDICINE FOR THE TREATMENT OF ATONIC DYSPEPSIA, CONSTIPATION, ANEMIA, AND LOSS OF APPETITE. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,480. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,687. MEDICINE FOR THE HEART AND THE VASCULAR SYSTEM. E. BILHUBER, INC., New York, N. Y.
Filed August 2, 1928. Serial No. 270,458. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,688. LIQUID PREPARATION TO BE USED AS A LAXATIVE. E. R. SQUIBB & SONS, New York, N. Y.
Filed August 1, 1928. Serial No. 270,448. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,689. INSECTICIDES. HENRY F. KOCH, doing business as Koch Chemical Co., Evansville, Ind.
Filed August 1, 1928. Serial No. 270,430. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,690. PERMANENT-WAVING OIL AND HAIR-CURLING LOTION. S. GLEMBY'S SONS CO., INC., New York, N. Y.
Filed August 1, 1928. Serial No. 270,419. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,691. ORGANIC AND INORGANIC CHEMICALS—NAMELY, SULPHATE OF AMMONIA, NITRATE OF SODA, AMMONIUM CHLORIDE, AMMONIUM NITRATE, AMMONIUM PHOSPHATE, CALCIUM NITRATE, AND UREA. THE BARRETT COMPANY, New York, N. Y.
Filed August 1, 1928. Serial No. 270,411. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,692. COLD CREAM, HAIR TONIC, BLEACHING ASTRINGENT (THE LATTER BEING A LOTION OR LIQUID), LIQUID FOR CURLING OR STRAIGHTENING OR SETTING THE HAIR, SHAMPOO, AND FACE POWDER. FRANK M. PERCIVAL, doing business as Adam de Cluhn Laboratories, Corona, N. Y.
Filed July 31, 1928. Serial No. 270,388. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,693. PERFUMED CREAM FOR TOILET USE. MAISON JENNY SOCIÉTÉ ANONYME, Paris, France.
Filed July 31, 1928. Serial No. 270,382. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,694. TOILET SOAPS AND SHAVING CREAM. CHERAMY, INC., New York, N. Y.
Filed July 31, 1928. Serial No. 270,368. PUBLISHED SEPTEMBER 11, 1928. Class 4.

249,695. FRYING FAT. SWIFT AND COMPANY, Chicago, Ill.
Filed July 30, 1928. Serial No. 270,358. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,696. MEDICINAL PREPARATION FOR THE RELIEF OF FREQUENT DESIRE TO URINATE, LACK OF URINE CONTROL, AND IRRITATION OF THE BLADDER. MILTON KLEIN, doing business as O-Kay Laboratories, Cleveland, Ohio.
Filed July 30, 1928. Serial No. 270,338. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,697. CHEMICAL COMPOUNDS AND SOLUTIONS FOR CLEANING AND TREATING METAL SURFACES, CHEMICAL COMPOUNDS AND SOLUTIONS FOR REMOVING RUST AND SCALE FROM STEAM BOILERS AND HOT-WATER SYSTEMS, CHEMICAL COMPOUNDS AND SOLUTIONS FOR PREVENTING RUSTING AND CORROSION IN STEAM BOILERS AND HOT-WATER SYSTEMS, AND BOILER COMPOUNDS. THE PASSIVATION PRODUCTS COMPANY, Cleveland, Ohio.
Filed July 30, 1928. Serial No. 270,349. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,698. CHEMICAL SUBSTANCE POSSESSING MEDICINAL PROPERTIES AS A HYPNOTIC. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed July 30, 1928. Serial No. 270,348. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,699. DESKS. JEWEL SAFE DESK CORPORATION, Jersey City, N. J.
Filed July 30, 1928. Serial No. 270,337. PUBLISHED SEPTEMBER 11, 1928. Class 32.

249,700. LOCAL ANESTHETIC IN AMPOULE OR TABLET FORM OR IN SOLUTION. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed July 30, 1928. Serial No. 270,327. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,701. MOTION PICTURES. FOX CASE CORPORATION, New York, N. Y.
Filed July 30, 1928. Serial No. 270,326. PUBLISHED SEPTEMBER 11, 1928. Class 26.

249,702. MOTION PICTURES. FOX CASE CORPORATION, New York, N. Y.
Filed July 30, 1928. Serial No. 270,325. PUBLISHED SEPTEMBER 11, 1928. Class 26.

249,703. LIQUID PREPARATION FOR THE EXTERNAL TREATMENT OF DISEASES AND POISONING OF THE SKIN—NAMELY, BARBER'S ITCH, RINGWORM, PIMPLES, POISON IVY, POISON OAK, INSECT BITES—AND FOR USE AFTER SHAVING. HARVEY E. BRUSH, Marshalltown, Iowa.
Filed July 30, 1928. Serial No. 270,317. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,704. BLACKLEG VACCINE. THE O. M. FRANKLIN BLACKLEG SERUM COMPANY, Denver, Colo.
Filed July 28, 1928. Serial No. 270,290. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,705. CAPS TO BE USED BY WOMEN AND CHILDREN. HELEN DAVIS, doing business as The Helen Davis Cap Co., Topeka, Kans.
Filed Apr. 5, 1928. Serial No. 264,364. PUBLISHED AUGUST 28, 1928. Class 39.

249,706. CHOCOLATE AND SWEETMEATS. RADIANCE LIMITED, Doncaster, England.
Filed Apr. 3, 1928. Serial No. 264,260. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,707. PENCIL SHARPENERS. T. PAUL MÖBIUS, Erlangen, near Nuremberg, Germany.
Filed April 3, 1928. Serial No. 264,251. PUBLISHED SEPTEMBER 11, 1928. Class 37.

249,708. ROLLING-MILL ROLLS. MESTA MACHINE COMPANY, West Homestead and Pittsburgh, Pa.
Filed April 3, 1928. Serial No. 264,249. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,709. ROLLING-MILL ROLLS. MESTA MACHINE COMPANY, West Homestead and Pittsburgh, Pa.
Filed April 3, 1928. Serial No. 264,248. PUBLISHED SEPTEMBER 4, 1928. Class 23.

249,710. LUBRICATING OILS AND GREASES. THE PATAPSCO OIL & GREASE CO., Baltimore, Md.
Filed April 2, 1928. Serial No. 264,188. PUBLISHED SEPTEMBER 4, 1928. Class 15.



249,711. BOOTS AND SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. SIMPLEX SHOE MANUFACTURING COMPANY, Milwaukee, Wis.
Filed April 2, 1928. Serial No. 264,207. PUBLISHED AUGUST 28, 1928. Class 39.

249,712. JUNIOR DRESSES FOR CHILDREN. BROWN-DUNKIN DRY GOODS COMPANY, Tulsa, Okla.
Filed April 2, 1928. Serial No. 264,140. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,713. CHILDREN'S WASH DRESSES, CHILDREN'S SILK DRESSES, CHILDREN'S HATS, AND CHILDREN'S COATS. BROWN-DUNKIN DRY GOODS COMPANY, Tulsa, Okla.
Filed April 2, 1928. Serial No. 264,139. PUBLISHED AUGUST 28, 1928. Class 39.

249,714. ETHYL PROTOCATECHUIC ALDEHYDE. HAROLD H. FRIES, doing business as Fries Bros., New York, N. Y.
Filed March 31, 1928. Serial No. 264,094. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,715. BATH TUBS, SITZ BATHS, FOOT BATHS, SHOWER SPRINKLERS, ETC. HENION AND HUBBELL, Chicago, Ill.
Filed March 29, 1928. Serial No. 263,945. PUBLISHED SEPTEMBER 11, 1928. CLASS 13.

249,716. PHONOGRAPHS, PHONOGRAPH RECORDS AND ALL SUPPLIES THEREFOR, INCLUDING PHONOGRAPH NEEDLES. PLAZA MUSIC COMPANY, New York, N. Y.
Filed March 28, 1928. Serial No. 263,889. PUBLISHED SEPTEMBER 4, 1928. Class 36.

249,717. BOND PAPER. CHAPIN & GOULD PAPER COMPANY, Springfield, Mass.
Filed April 17, 1928. Serial No. 264,968. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,718. WOMEN'S, CHILDREN'S, AND MISSES' HATS. OGUS, RABINOVICH & OGUS, INC., New York, N. Y.
Filed April 14, 1928. Serial No. 264,838. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,719. WOMEN'S CHILDREN'S, AND MISSES' HATS. OGUS, RABINOVICH & OGUS, INC., New York, N. Y.
Filed April 14, 1928. Serial No. 264,837. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,720. WOMEN'S, CHILDREN'S, AND MISSES' HATS. OGUS, RABINOVICH & OGUS, INC., New York, N. Y.
Filed April 14, 1928. Serial No. 264,836. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,721. AUTOMATIC TELEPHONE SYSTEMS. AUTOMATIC ELECTRIC INC., Chicago, Ill.
Filed April 13, 1928. Serial No. 264,746. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,722. SHOES OF LEATHER. MILFORD SHOE COMPANY, Milford, Mass.
Filed April 9, 1928. Serial No. 264,596. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,723. PIANOS, PLAYER PIANOS, AND PHONOGRAPHS. CHIPMAN & COMPANY, INC., New York, N. Y.
Filed April 6, 1928. Serial No. 264,419. PUBLISHED SEPTEMBER 4, 1928. Class 36.

249,724. TROUSERS, SUITS, KNICKERS, BREECHES FOR MEN AND BOYS. DAY'S TAILOR-D WEAR, INC., Tacoma, Wash.
Filed April 7, 1928. Serial No. 264,507. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,725. CHILDREN'S COATS, HATS, DRESSES, LEGGINGS, AND MUFFS. LITTLE SISTER COATS, INC., New York, N. Y.
Filed March 28, 1928. Serial No. 263,876. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,726. CERAMIC ENAMELS, CERAMIC COLORS, AND CERAMIC COATINGS. GENERAL COLOR PRODUCTS CO., Chicago, Ill.
Filed March 28, 1928. Serial No. 263,871. PUBLISHED SEPTEMBER 4, 1928. Class 16.

249,727. COTTON PIECE GOODS. ROBINSON & GOLUBER, New York, N. Y.
Filed March 24, 1928. Serial No. 263,726. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,728. ELECTRIC REFRIGERATORS. MILD ENGINEERING COMPANY, Mount Vernon, Ohio.
Filed March 19, 1928. Serial No. 263,412. PUBLISHED MAY 29, 1928. Class 31.

249,729. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed March 19, 1928. Serial No. 263,401. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,730. POTENTIOMETERS FOR MEASURING ELECTRICAL POTENTIALS; AUTOMATIC CONTROLLING INSTRUMENTS FOR CONTROLLING SWITCHES, DAMPERS AND VALVES REGULATING TEMPERATURES, PRESSURES AND VACUUMS, SPEEDS, FLUID FLOWS, AND ANALOGOUS QUANTITIES; FLOW METERS; GAS-ANALYSIS INSTRUMENTS; AND AUTOMATIC SIGNALLING INSTRUMENTS FOR INDICATING CERTAIN TEMPERATURES, PRESSURES AND VACUUMS, SPEEDS, FLUID FLOWS, AND ANALOGOUS QUANTITIES BY GONGS, WHISTLES, BELLS, OR LIGHTS. THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa.
Filed March 17, 1928. Serial No. 263,314. PUBLISHED SEPTEMBER 11, 1928. Class 26.

249,731. CERTAIN NAMED WEARING APPAREL. G. W. GOMERSALL, Philadelphia, Pa.
Filed March 17, 1928. Serial No. 263,314. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,732. DETERGENT COMPOUND ESPECIALLY PREPARED FOR CLEANING CARS. WILSON-IMPERIAL COMPANY, Newark, N. J.
Filed March 16, 1928. Serial No. 263,297. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,733. FEED FOR DAIRY STOCK. ST. ALBANS GRAIN COMPANY, St. Albans, Vt.
Filed March 14, 1928. Serial No. 263,174. PUBLISHED JULY 17, 1928. Class 46.

249,734. HOSIERY. ADOLF & NORBERT KRAMER, Chemnitz, Germany.
Filed March 10, 1928. Serial No. 262,914. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,735. PLAIN, COATED, OR DECORATED PAPER USED FOR COVERING, WRAPPING, OR LINING CANDY, PERFUMERY BOXES AND CONTAINERS, OR CONTAINERS FOR SIMILAR PURPOSES. C. H. WHITING CO. INC., Newark, N. J.
Filed March 3, 1928. Serial No. 262,585. PUBLISHED MAY 29, 1928. Class 37.

249,736. OVERCOATING FABRICS OF WOOL SOLD IN THE PIECE. BROAD BROOK COMPANY, Broad Brook, Conn.
Filed March 2, 1928. Serial No. 262,507. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,737. AUTOMOBILE ACCESSORIES, CONSISTING OF ELECTRICAL HORNS, LAMPS, BATTERY CONNECTORS, IGNITION PARTS, SPARK PLUGS, AND SWITCHES. INTER-STATE AUTO PARTS CO., INC., New York, N. Y.
Filed January 25, 1927. Serial No. 248,314. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,738. SPRING WATER. EMERICK WEBSTER, Easton, Pa.
Filed January 5, 1927. Serial No. 242,402. PUBLISHED SEPTEMBER 11, 1928. Class 45.

249,739. SOAPS, INCLUDING SHAVING STICKS. PAUL PETER MÜLHENS, doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed December 29, 1926. Serial No. 242,100. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,740. LADIES' APRONS AND HOUSE DRESSES. THE STERLING COMPANY, Chicago, Ill.
Filed July 5, 1928. Serial No. 269,160. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,741. HOSIERY. BEAR BRAND HOSIERY CO., Chicago, Ill.
Filed July 6, 1928. Serial No. 269,177. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,742. WALL PAPER. BECKER, SMITH & PAGE, INCORPORATED, Philadelphia, Pa.
Filed July 6, 1928. Serial No. 269,178. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,743. FRESH FRUITS—NAMELY, PEARS, ORANGES, APPLES, AND CHERRIES. EARL FRUIT COMPANY, San Francisco, Calif.
Filed July 7, 1928. Serial No. 269,227. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,744. LEGGINGS. S. RAUH & COMPANY, New York, N. Y.
Filed July 6, 1928. Serial No. 269,206. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,745. OPHTHALMIC MOUNTINGS, LENSES, TELESCOPES, BINOCULARS, OPERA AND FIELD GLASSES, AND MICROSCOPES. MAX KAPLAN, Port Chester, N. Y.
Filed July 7, 1928. Serial No. 269,241. PUBLISHED SEPTEMBER 11, 1928. Class 26.

249,746. SEWING MACHINES AND PARTS THEREOF. NAHMASCHINEN-TEILE AKTIEN-GESELLSCHAFT, Dresden, Germany.
Filed July 7, 1928. Serial No. 269,248. PUBLISHED SEPTEMBER 11, 1928. Class 23.

249,747. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. FINCH, VAN SLYCK & MCCONVILLE, St. Paul, Minn.
Filed July 9, 1928. Serial No. 269,284. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,748. BRACELETS. ROSENHEIM CO., INC., Providence, R. I.
Filed July 9, 1928. Serial No. 269,318. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,749. ELECTRIC IRONING MACHINES. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed July 9, 1928. Serial No. 269,323. PUBLISHED SEPTEMBER 11, 1928. Class 24.

249,750. HOSIERY. FRANCES SACHSENMAIER, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa.
Filed July 9, 1928. Serial No. z69,319. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,751. READY-MIXED PAINTS AND VARNISHES. CALVIN ROLLINS, doing business as The Old Trusty Company, Clay Center, Nebr.
Filed July 2, 1928. Serial No. 269,002. PUBLISHED AUGUST 28, 1928. Class 16.

249,752. HANDKERCHIEFS. SPENCE-BRYSON INC., New York, N. Y.
Filed July 5, 1928. Serial No. 269,158. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,753. HOSIERY. SHOAF-SINK HOSIERY MILL COMPANY, Lexington, N. C.
Filed July 9, 1928. Serial No. 269,326. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,754. TOILET CREAM. P. BEIERSDORF & CO. INC., New York, N. Y.
Filed July 10, 1928. Serial No. 269,343. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,755. SHAVING POWDER. NORUB COMPANY, Ossining, N. Y.
Filed July 10, 1928. Serial No. 269,363. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,756. SHOES MADE WHOLLY OR IN PART OF LEATHER. NATH'L FISHER & CO., New York, N. Y.
Filed July 11, 1928. Serial No. 269,401. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,757. RUBBER SOLES AND HEELS AND RUBBER FOOTWEAR CONSISTING OF TENNIS OR OTHER ATHLETIC SHOES, ARCTICS, OVERSHOES OR RUBBERS, AND BOOTS. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed July 12, 1928. Serial No. 269,451. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,758. HAIR DRESSING. JULIUS R. JONES, doing business as Fix-Rite Chemical Co., Richmond, Va.
Filed July 12, 1928. Serial No. 269,470. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,759. CIGARS. THE KILDOW CIGAR COMPANY, INC., Bethesda, Ohio.
Filed July 12, 1928. Serial No. 269,473. PUBLISHED SEPTEMBER 11, 1928. Class 17.

249,760. PRODUCTS USED IN THE PREPARATION AND PRESERVATION OF THE HUMAN DEAD; COSMETICS—NAMELY, FACE POWDER, ROUGE, AND FACE CREAM, LIP STICK, MASSAGE CREAM, MASCARA, EMBALMING FLUIDS, DISINFECTING AND PRESERVING FLUIDS. NATURO MFG. CO., Los Angeles, Calif.
Filed July 13, 1928. Serial No. 269,546. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,761. PERIODICAL. SIMMONS-BOARDMAN PUBLISHING CO., New York, N. Y.
Filed July 12, 1928. Serial No. 269,487. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,762. LAXATIVE. NENA ENGE, doing business as Nena Lax Co., New York, N. Y.
Filed July 13, 1928. Serial No. 269,518. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,763. ANTACID AND CORRECTIVE FOR DIGESTIVE DISTURBANCES. H. K. MULFORD COMPANY, Philadelphia, Pa.
Filed July 13, 1928. Serial No. 269,542. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,764. SHEET-RUBBER TIRE-PATCHING MATERIAL AND TIRE-REPAIR KITS. WESTERN STATES MFG. CO., Sioux City, Iowa.
Filed July 13, 1928. Serial No. 269,558. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,765. VALVE PADS FOR PNEUMATIC TIRES, FAN BELTS, TUBE AND CASING PATCHES, RUBBER INTERLINERS FOR PNEUMATIC TIRES, TIRE PLUGS, TIRE BOOTS, AND INNER TUBES. WESTERN STATES MFG. CO., Sioux City, Iowa.
Filed July 13, 1928. Serial No. 269,559. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,766. RIBBONS OF SILK, ARTIFICIAL SILK, RAYON, COTTON, AND MIXTURES THEREOF. CENTURY RIBBON MILLS, INC. (ERNEST & HERMAN LEVY), New York, N. Y.
Filed July 14, 1928. Serial No. 269,577. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,767. LOOSE-LEAF BINDERS AND PAPERS THEREFOR, PRINTING, RULING, BINDING, AND WRITING PAPERS, FILE WRAPPERS, AND INDEX CARDS. THE NATIONAL BANK SUPPLY CO., Milwaukee, Wis.
Filed July 14, 1928. Serial No. 269,596. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,768. THREAD AND YARN. BRUCKS AND PEYSER, New York, N. Y.
Filed August 8, 1928. Serial No. 270,738. PUBLISHED SEPTEMBER 11, 1928. Class 43.

249,769. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. RIALTO ORANGE CO., Rialto, Calif.
Filed August 7, 1928. Serial No. 270,719. PUBLISHED SEPTEMBER 11, 1928. Class 46.



249,770. WATCH MATERIALS—VIZ, HAIRSPRINGS AND PARTS OF WATCHES. SWISS HAIRSPRING SERVICE, INC., New York, N. Y.
Filed July 14, 1928. Serial No. 269,615. PUBLISHED SEPTEMBER 11, 1928. Class 27.

249,771. CANNED SALMON. OCEANIC SALES COMPANY, Seattle, Wash.
Filed August 6, 1928. Serial No. 270,646. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,772. CANNED VEGETABLES. OCONOMOWOC CANNING CO., Oconomowoc, Wis.
Filed August 4, 1928. Serial No. 270,603. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,773. SMOKING AND CHEWING TOBACCO AND CIGARETTES. BROWN & WILLIAMSON TOBACCO CORPORATION, Winston-Salem, N. C.
Filed July 28, 1928. Serial No. 270,277. PUBLISHED SEPTEMBER 11, 1928. Class 17.

249,774. PERFUMES AND HYGIENIC PRODUCTS—NAMELY, BATH SALTS, ASTRINGENTS, COLD CREAMS, FACE PACKS, SHAMPOOS, TALCUM POWDERS, EYEDROPS, TOILET WATERS, SMELLING SALTS, AROMATIC VINEGARS, SKIN CREAMS, FACE POWDERS, ROUGES, SKIN BLEACHES, LIP STICKS, EYEBROW PENCILS, AND HAIR, FACE, HAND, AND FOOT LOTIONS. HENRI BENDEL, INC., New York, N. Y.
Filed July 28, 1928. Serial No. 270,275. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,775. FACE CREAM. AMORSKIN CORPORATION, New York, N. Y.
Filed July 28, 1928. Serial No. 270,273. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,776. INNER TUBES FOR TIRES. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed July 27, 1928. Serial No. 270,267. PUBLISHED SEPTEMBER 11, 1928. Class 35.

249,777. GENERAL TONIC AND MILD LAXATIVE. PAN-AMERICAN DRUG COMPANY, INC., Jacksonville, Fla.
Filed July 27, 1928. Serial No. 270,259. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,778. FRESH FISH—NAMELY, FILLETS AND DRESSED HADDOCK. THE O'DONNELL COMPANY, Boston, Mass.
Filed July 27, 1928. Serial No. 270,258. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,779. MEDICINE TO BE TAKEN INTERNALLY FOR THE TREATMENT OF NERVOUSNESS AND AS A GENERAL TONIC. KNOX COMPANY, Kansas City, Mo.
Filed July 27, 1928. Serial No. 270,251. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,780. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed July 17, 1928. Serial No. 269,753. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,781. TOILET PAPER, PAPER TOWELS, AND PAPER NAPKINS. WHITE-WASHBURNE COMPANY, INC., Hinsdale, N. H.
Filed July 17, 1928. Serial No. 269,752. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,782. MATS AND FLOOR COVERING MADE PRINCIPALLY OF RUBBER HAVING A FABRIC BASE. ARCHER RUBBER PRODUCTS CO. INC., New York, N. Y.
Filed July 18, 1928. Serial No. 269,762. PUBLISHED SEPTEMBER 11, 1928. Class 20.

249,783. SOAPS. L. T. PIVER, INC., Wilmington, Del., and New York, N. Y.
Filed July 17, 1928. Serial No. 269,745. PUBLISHED SEPTEMBER 11, 1928. Class 4.

249,784. SACHET POWDERS, FACE POWDERS, AND TALCUM POWDERS. L. T. PIVER, INC., doing business as L. T. Piver and Parfumerie L. T. Piver, Wilmington, Del., and New York, N. Y.
Filed July 17, 1928. Serial No. 269,744. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,785. THREAD AND YARN. CHICKASAW THREAD COMPANY, Shelby, N. C.
Filed July 17, 1928. Serial No. 269,716. PUBLISHED SEPTEMBER 11, 1928. Class 43.

249,786. BOOK PAPER. BERTRAM BLAKE PAPER CO. INC., New York, N. Y.
Filed July 17, 1928. Serial No. 269,710. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,787. MAGAZINES. MACINTYRE & SIMPSON, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,673. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,788. SILVER PAINT PREPARATION. WILLIAM R. KNOTT, Rochester, N. Y.
Filed July 16, 1928. Serial No. 269,665. PUBLISHED SEPTEMBER 4, 1928. Class 16.

249,789. MEN'S HATS AND CAPS. HUTT & WASSERMAN, INC., New York, N. Y.
Filed July 16, 1928. Serial No. 269,662. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,790. LOGGING AND LOADING TONGS. HICKOK & HICKOK, San Francisco, Calif.
Filed July 16, 1928. Serial No. 269,657. PUBLISHED SEPTEMBER 11, 1928. Class 23.

249,791. GREASEPROOF AND WATERPROOF WRAPPING PAPER. FRED RENTZ PAPER COMPANY, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,651. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,792. LEATHER SHOES. DURAND SHOE CO., Boston, Mass.
Filed July 16, 1928. Serial No. 269,644. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,793. ELECTRIC OZONE MACHINES. THE COROZONE COMPANY, Cleveland, Ohio.
Filed July 16, 1928. Serial No. 269,638. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,794. SERIAL PUBLICATIONS. HARRY J. BOSWORTH COMPANY, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,630. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,795. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. W. & P. JEWELRY CO. INC., New York, N. Y.
Filed July 14, 1928. Serial No. 269,618. PUBLISHED SEPTEMBER 11, 1928. Class 28.

249,796. PIECE GOODS OF RAYON, SILK, AND SATIN LINGERIE AND SLIP MATERIAL. ROBINSON & GOLLUBER, New York, N. Y.
Filed July 14, 1928. Serial No. 269,606. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,797. ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. PRUTINSKY & WOOLF, New York, N. Y.
Filed July 14, 1928. Serial No. 269,603. PUBLISHED SEPTEMBER 11, 1928. Class 28.

249,798. HEADING FOR NEWSPAPER ARTICLES. FREDERICK C. RUSSELL, West Hartford, Conn.
Filed July 18, 1928. Serial No. 269,799. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,799. AIRPLANES AND AIRPLANE STRUCTURAL PARTS. G. ELIAS & BRO. INC., Buffalo, N. Y.
Filed July 18, 1928. Serial No. 269,775. PUBLISHED SEPTEMBER 11, 1928. Class 19.

249,800. ASTRINGENTS, CERATES, BLEACH CREAMS, ETC. AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y.
Filed July 26, 1928. Serial No. 270,161. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,801. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND FOR JUICES OR SYRUPS FOR MAKING THE SAME. JOHN G. METKE, doing business as Queen City Specialty Co., Buffalo, N. Y.
Filed July 25, 1928. Serial No. 270,135. PUBLISHED SEPTEMBER 11, 1928. Class 45.

249,802. TANNING COMPOSITIONS. THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio.
Filed July 25, 1928. Serial No. 270,125. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,803. PERIODICAL PARTICULARLY ADAPTED TO BANKS PUBLISHED FROM TIME TO TIME. BROWN & BIGELOW, St. Paul, Minn.
Filed July 25, 1928. Serial No. 270,112. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,804. LOCAL ANESTHETIC. H. A. METZ LABORATORIES, INC., New York, N. Y.
Filed July 21, 1928. Serial No. 269,970. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,805. ORGANIC AND INORGANIC CHEMICALS—NAMELY, SULFATE OF AMMONIA, NITRATE OF SODA, AMMONIUM CHLORIDE, AMMONIUM NITRATE, AMMONIUM PHOSPHATE, CALCIUM NITRATE, AND UREA. THE BARRETT COMPANY, New York, N. Y.
Filed JULY 21, 1928. Serial No. 269,935. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,806. DEODORANTS, DISINFECTANTS, AND INSECTIFUGES. FRANCIS J. CURRAN, doing business as The Zoro Company, Chicago, Ill.
Filed July 20, 1928. Serial No. 269,887. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,807. RUBBING ALCOHOL. BENDINER & SCHLESINGER, INC., New York, N. Y.
Filed July 20, 1928. Serial No. 269,885. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,808. FRESH DECIDUOUS FRUITS. WOOD FRUIT COMPANY, INC., Atwater, Calif.
Filed July 19, 1928. Serial No. 269,879. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,809. FRESH DECIDUOUS FRUITS. WOOD FRUIT COMPANY, INC., Atwater, Calif.
Filed July 19, 1928. Serial No. 269,878. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,810. MALT EXTRACT FOR MEDICINAL PURPOSES. THE FOOD SPECIALTIES CO., Columbus, Ohio.
Filed July 19, 1928. Serial No. 269,838. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,811. OUTBOARD BOATS. ALLOY BOAT CORPORATION, Buffalo, N. Y.
Filed July 19, 1928. Serial No. 269,817. PUBLISHED SEPTEMBER 11, 1928. Class 19.

249,812. [WITHDRAWN.]

249,813. CAKE. WARD BAKING COMPANY, New York, N. Y.
Filed June 8, 1928. Serial No. 267,731. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,814. CAKE. WARD BAKING COMPANY, New York, N. Y.
Filed June 8, 1928. Serial No. 267,730. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,815. FILES AND RASPS. NICHOLSON FILE COMPANY, Providence, R. I.
Filed May 10, 1928. Serial No. 266,215. PUBLISHED SEPTEMBER 11, 1928. Class 23.

249,816. BRACELETS AND WATCH BANDS. THE WADSWORTH WATCH CASE COMPANY, Dayton, Ky.
Filed May 11, 1928. Serial No. 266,285. PUBLISHED SEPTEMBER 11, 1928. Class 28.

249,817. LINOLEUM. CARTHAGE MILLS INCORPORATED, Cincinnati, Ohio.
Filed May 14, 1928. Serial No. 266,355. PUBLISHED SEPTEMBER 11, 1928. Class 20.

249,818. WORKING CLOTHING CONSISTING OF OVERALLS, COATS, PANTS, AND COMBINATIONS CONSISTING OF PANTS AND COATS MADE OF OVERALL MATERIAL. LARNED, CARTER & COMPANY, Detroit, Mich.
Filed May 14, 1928. Serial No. 266,382. PUBLISHED SEPEMBER 4, 1928. Class 39.

249,819. FINGER RINGS, BRACELETS, BROACHES, SAUTOIRS, AND PLATINUM SHELLS OR CASES SET WITH JEWELS FOR PERSONAL WEAR, BUT NOT INCLUDING WATCH MOVEMENTS OR CASES. SAMUEL SCHNELLING, Chicago, Ill.
Filed May 16, 1928. Serial No. 266,485. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,820. CERTAIN NAMED WEARING APPAREL. J. JACOBY COMPANY, Los Angeles, Calif.
Filed May 18, 1928. Serial No. 266,592. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,821. ALUMINUM CLEANSER, SCOURING POWDER, STEEL WOOL, AND SOAP. I. ROKEACH & SONS INC., Brooklyn, N. Y.
Filed May 18, 1928. Serial No. 266,620. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,822. SEMIPORCELAIN AMERICAN DINNER WARE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed May 18, 1928. Serial No. 266,627. PUBLISHED SEPTEMBER 11, 1928. Class 30.

249,823. NOSE AND THROAT SPRAY. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed May 18, 1928. Serial No. 266,628. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,824. LADIES' HEADGEAR COMPRISING MARCEL-WAVE PROTECTORS, NIGHTCAPS, AND DUST CAPS. MINNIE LAYTON, doing business as Laytonet Manufacturing Co., San Francisco, Calif.
Filed May 19, 1928. Serial No. 266,671. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,825. SHOES CONSTRUCTED OF LEATHER, RUBBER, FABRIC, FIBER, AND OF COMBINATIONS THEREOF. GIVEN BROS. SHOE CO., El Paso, Tex.
Filed May 21, 1928. Serial No. 266,729. PUBLISHED AUGUST 28, 1928. Class 39.

249,826. RADIO ACCESSORIES—NAMELY, GROUND RODS, ANTENNÆ, AND ANTENNA POLES. PERCON MANUFACTURING COMPANY, Richmond, Ind.
Filed May 23, 1928. Serial No. 266,879. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,827. MEDICINAL TONIC HAVING A WINE BASE. PIERRE DE LA MONTANYA, doing business as Alta Vista Company, San Francisco, Calif.
Filed May 25, 1928. Serial No. 266,979. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,828. MEDICAL PREPARATION USED IN THE TREATMENT OF RHEUMATISM. DEBI AND MCDANIEL, doing business as Joe Debi, Big Spring, Tex.
Filed May 28, 1928. Serial No. 267,125. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,829. KIDNEY MEDICINE FOR HORSES. FRANK B. MASON, Hollis, N. Y.
Filed July 2, 1928. Serial No. 268,991. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,830. PREPARATION FOR USE IN THE TREATMENT OF HEADACHE, BACKACHE, AND TOOTHACHE. MARSWELL, INCORPORATED, Wantagh, N. Y.
Filed July 2, 1928. Serial No. 268,988. PUBLISHED SEPTEMBER 11, 1928. Class 6.



249,831. SCLEROSING SOLUTION FOR THE TREATMENT OF VARICOSE VEINS. THE INVERTOSE LABORATORIES CO., Minneapolis, Minn.
Filed July 2, 1928. Serial No. 268,984. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,832. LEATHER SHOES. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y.
Filed June 18, 1928. Serial No. 268,217. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,833. WASHING AND CLEANSING POWDERS WITH AND WITHOUT INCIDENTAL BLEACHING PROPERTIES. WHYTO MANUFACTURING COMPANY, Cresco, Iowa.
Filed June 18, 1928. Serial No. 268,201. PUBLISHED SEPTEMBER 11, 1928. Class 4.

249,834. CANES, PARASOLS, AND UMBRELLAS. TIFFANY & COMPANY, New York, N. Y.
Filed May 28, 1928. Serial No. 267,151. PUBLISHED SEPTEMBER 4, 1928. Class 41.

249,835. COLD CREAM, VANISHING CREAM, ROUGE, SKIN ASTRINGENT, AND TALCUM POWDER. ISABEY PARIS, INC., Wilmington, Del., and New York, N. Y.
Filed May 28, 1928. Serial No. 267,127. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,836. MEN'S, WOMEN'S, AND BOYS' KNITTED SWEATERS. CHARLES SEIDMAN, doing business as Charles Seidman & Co., Philadelphia, Pa.
Filed May 28, 1928. Serial No. 267,147. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,837. MICROPHONIC ATTACHMENT FOR RADIO RECEIVING SETS FOR SUBSTITUTING LOCAL MATTER FOR THAT BROADCAST FROM A DISTANCE. VENTRIL-O-FONE COMPANY, Wilmington, Del.
Filed May 28, 1928. Serial No. 267,166. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,838. LEATHER AND CANVAS SHOES. R. H. MACY & CO., INC., New York, N. Y.
Filed May 31, 1928. Serial No. 267,265. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,839. RADIO PANELS FOR RADIO RECEIVING SETS. JOHN A. BARTKUS, doing business as B & J Electrical and Radio Engineering Laboratories, Chicago, Ill.
Filed June 2, 1928. Serial No. 267,335. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,840. CERTAIN NAMED PAINT PRODUCTS. RED SPOT PAINT & VARNISH CO., also doing business as Evansville Paint & Varnish Co., Evansville, Ind.
Filed June 2, 1928. Serial No. 267,389. PUBLISHED SEPTEMBER 4, 1928. Class 16.

249,841. BRIDGE SCORE PADS, PLACE CARDS, AND BRIDGE TALLIES. CHARLES S. CLARK CO., New York, N. Y.
Filed June 2, 1928. Serial No. 267,351. PUBLISHED SEPTEMBER 4, 1928. Class 37.

249,842. HATS FOR MEN. THE CROFUT & KNAPP CO., South Norwalk, Conn.
Filed June 4, 1928. Serial No. 267,408. PUBLISHED AUGUST 28, 1928. Class 39.

249,843. CERTAIN NAMED WEARING APPAREL. HARRY A. HYMAN, doing business as United Shirt Distributors, Detroit, Mich.
Filed June 4, 1928. Serial No. 267,421. PUBLISHED AUGUST 28, 1928. Class 39.

249,844. LEATHER SHOES. LESTER H. STONE, Chicago, Ill.
Filed June 4, 1928. Serial No. 267,468. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,845. SERIES OF TEXTBOOKS. LOOSELEAF EDUCATION, INC., Columbus, Ohio.
Filed June 5, 1928. Serial No. 267,609. PUBLISHED SEPTEMBER 4, 1928. Class 36.

249,846. HOSIERY. I. MICHELSOHN & SON, New York, N. Y.
Filed June 5, 1928. Serial No. 267,500. PUBLISHED AUGUST 28, 1928. Class 39.

249,847. COMPOUND OF COMBINED CONCENTRATED INGREDIENTS FOR MAKING A NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE. NANNT, INC., Long Island City, N. Y.
Filed June 5, 1928. Serial No. 267,502. PUBLISHED SEPTEMBER 11, 1928. Class 45.

249,848. ELECTRIC CIGAR LIGHTERS. LEE-O-LECTRIC MFG. CO., INC., Monroe, Mich.
Filed June 6, 1928. Serial No. 267,595. PUBLISHED AUGUST 14, 1928. Class 21.

249,849. FISHING LINES. SHAKESPEARE COMPANY, Kalamazoo, Mich.
Filed June 8, 1928. Serial No. 267,728. PUBLISHED SEPTEMBER 4, 1928. Class 22.

249,850. LADIES' KNITTED BLOOMERS, PANTIES, STEP-INS, SLIPS, UNION SUITS, CHEMISES, AND VESTS. J. BRENNE CO., Boston, Mass.
Filed June 9, 1928. Serial No. 267,744. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,851. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,766. PUBLISHED AUGUST 28, 1928. Class 39.

249,852. CERTAIN NAMED WEARING APPAREL. DWORETSKY & ANENBERG, New York and Brooklyn, N. Y.
Filed May 4, 1928. Serial No. 265,804. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,853. RAISED-PILE WOOLEN FABRIC WOVEN WITH A BRUSHED SURFACE. COBB & JENKINS, New York, N. Y.
Filed May 7, 1928. Serial No. 266,021. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,854. FRESH GRAPES. MANTECA CANNING COMPANY, Manteca, Calif.
Filed May 9, 1928. Serial No. 266,138. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,855. PRINTED LABELS, TAGS, AND ADVERTISING DISPLAY CARDS. L. A. MILLER LABEL CO., San Francisco, Calif.
Filed May 9, 1928. Serial No. 266,143. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,856. WOMEN'S, CHILDREN'S, AND MISSES' DRESSES AND APRONS. WALTON N. MOORE DRY GOODS CO., INC., San Francisco, Calif.
Filed May 9, 1928. Serial No. 266,145. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,857. RAINCOATS FOR MEN, WOMEN, AND CHILDREN. SHERMAN BROS., New York, N. Y.
Filed May 9, 1928. Serial No. 266,151. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,858. RADIO LOUD SPEAKERS. THE AIR-CHROME STUDIOS, INC., Irvington, N. J.
Filed June 7, 1928. Serial No. 267,625. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,859. ANNUAL PUBLICATION. THE IRVING-CLOUD PUBLISHING CO., Chicago, Ill.
Filed June 7, 1928. Serial No. 267,657. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,860. BLACK BAKING JAPANS, PAINT ENAMELS, AND VARNISHES. HILO VARNISH CORPORATION, New York, N. Y.
Filed July 2, 1928. Serial No. 268,983. PUBLISHED AUGUST 28, 1928. Class 16.

249,861. COTTON-CLOTH FABRIC IN THE PIECE FROM WHICH GLOVES MAY BE MADE. HATLIG & FLOREA, INC., New York, N. Y.
Filed July 2, 1928. Serial No. 268,981. PUBLISHED SEPTEMBER 11, 1928. Class 42.

249,862. GLOVES MADE OF FABRIC, OF LEATHER, OR OF COMBINATIONS THEREOF. HEILIG & FLORBA, INC., New York, N. Y.
Filed July 2, 1928. Serial No. 268,980. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,863. MONTHLY MAGAZINE. FIELD AND STREAM PUBLISHING COMPANY, New York, N. Y.
Filed July 2, 1928. Serial No. 268,979. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,864. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. CONEY ISLAND SODA WATER CO., INC., also doing business as Teitler's Beverages, Brooklyn, N. Y.
Filed July 2, 1928. Serial No. 268,968. PUBLISHED SEPTEMBER 4, 1928. Class 45.

249,865. AUTOMATIC ELECTRIC TRAFFIC-CONTROL SYSTEMS. AUTOMATIC SIGNAL CORPORATION, New Haven, Conn.
Filed June 30, 1928. Serial No. 268,905. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,866. WHEAT FLOUR, CORN MEAL, ALFALFA MOLASSES, HORSE AND MULE FEED, MIXED DAIRY FEED, AND MIXED POULTRY FEED. ARDMORE FLOUR & FEED CO., Ardmore, Okla.
Filed June 30, 1928. Serial No. 268,902. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,867. PERIODICAL FASHION PUBLICATIONS. FREDERICK D. RICH, New York, N. Y.
Filed June 29, 1928. Serial No. 268,884. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,868. SILVER HOLLOW WARE. BERNARD RICE'S SONS, INC., New York, N. Y.
Filed June 29, 1928. Serial No. 268,883. PUBLISHED SEPTEMBER 4, 1928. Class 28.

249,869. OVERALLS, WORK COATS, JACKETS, AND PANTS. OSHKOSH OVERALL CO., Oshkosh, Wis.
Filed June 29, 1928. Serial No. 268,881. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,870. WOOD-FINISHING SOLUTION IN THE NATURE OF A FILLER AND SEALER. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio.
Filed January 28, 1928. Serial No. 260,786. PUBLISHED SEPTEMBER 4, 1928. Class 16.

249,871. GASOLINE, KEROSENE, DISTILLATE FURNACE AND LUBRICATING OILS. SIMON OIL COMPANY, INC., Niagara Falls, N. Y.
Filed January 19, 1928. Serial No. 260,359. PUBLISHED SEPTEMBER 4, 1928. Class 15.

249,872. BATTERIES. JOSEPH BLOCK, doing business as Block-Bilt Battery Co., New York, N. Y.
Filed January 12, 1928. Serial No. 259,992. PUBLISHED SEPTEMBER 11, 1928. Class 21.

249,873. SMOKED MEATS—NAMELY, HAMS, BACON, PICNICS, AND BACON NUGGETS; COOKED MEATS, SMOKED AND FRESH—NAMELY, BOILED HAMS, WIENERS, FRANKFURTERS, BOLOGNA, MINCED HAM, LIVER SAUSAGE, HEADCHEESE, BLOOD SAUSAGE, SUMMER SAUSAGE, DRIED BEEF, AND LUNCH HAM; FRESH MEATS—NAMELY, BEEF, PORK, MUTTON, AND POULTRY; AND LARD. RAPID CITY PACKING COMPANY, Rapid City, S. Dak.
Filed January 10, 1928. Serial No. 259,924. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,874. MOTOR FUEL OILS. HERCULES OIL CO., Cleveland, Ohio.
Filed December 29, 1927. Serial No. 259,444. PUBLISHED SEPTEMBER 4, 1928. Class 15.

249,875. SECTION OF A MONTHLY PUBLICATION. NATIONAL TRADE JOURNALS, INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,507. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,876. LADIES' HATS AND HOODS FOR LADIES' HATS. FELIX A. LACKS, doing business as Amform, New York, N. Y.
Filed June 22, 1928. Serial No. 268,501. PUBLISHED AUGUST 28, 1928. Class 39.

249,877. WOMEN'S AND MISSES' DRESSES. CONRAD & CO. INC., Boston, Mass.
Filed June 22, 1928. Serial No. 268,487. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,878. WOMEN'S AND MISSES' HOSE. CONRAD & CO. INC., Boston, Mass.
Filed June 22, 1928. Serial No. 268,486. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,879. FOOT POWDER FOR SOFTENING CORNS, BUNIONS, AND FOR RELIEVING BURNING AND SWEATING FEET. CHARLES H. MARKS, New York, N. Y.
Filed June 21, 1928. Serial No. 268,456. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,880. MEN'S SUITS, OVERCOATS, AND TOPCOATS. S. MAKRANSKY & SONS, Philadelphia, Pa.
Filed June 21, 1928. Serial No. 268,455. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,881. BLANK PAPER, TRANSLUCENT PAPER, COATED BOOK PAPER, BOX PAPER, COVER PAPER, CALENDAR-STOCK PAPER, PAPER FOR MOUNTING PHOTOGRAPHIC PRINTS, AND PAPER FOR GREETING CARDS. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed June 21, 1928. Serial No. 268,425. PUBLISHED SEPTEMBER 11, 1928. Class 37.

249,882. WORK, SPORT, AND CHILDREN'S SHIRTS. THE SPAIDE SHIRT COMPANY, Butler, Pa.
Filed June 20, 1928. Serial No. 268,400. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,883. BURIAL VAULTS. MCCLAIN BROTHERS, Canton, Ohio.
Filed June 20, 1928. Serial No. 268,378. PUBLISHED SEPTEMBER 11, 1928. Class 2.

249,884. CANNED SHRIMP, CANNED VEGETABLES, AND CANNED FRUIT. S. S. GOFFIN, also doing business as Nassau Sound Packing Co., Jacksonville, Fla.
Filed June 20, 1928. Serial No. 268,367. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,885. RADIO HOOK-UP WIRE. THE ACME WIRE COMPANY, New Haven, Conn.
Filed June 20, 1928. Serial No. 268,333. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,886. DEPILATORY. AUGUST W. ROSSOW, doing business as Rossow Research Laboratories, Portland, Oreg.
Filed June 19, 1928. Serial No. 268,313. PUBLISHED SEPTEMBER 4, 1928. Class 6.

249,887. SOAP. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y., now, by change of name, Fadrich Corporation, assignor to F. Ad. Richter & Co. Inc., Brooklyn, N. Y., a Corporation of New York.
Filed June 19, 1928. Serial No. 268,310. PUBLISHED SEPTEMBER 4, 1928. Class 4.

249,888. CHEWING GUM. THE GINGER MINT JULEP COMPANY, Baltimore, Md.
Filed June 19, 1928. Serial No. 268,279. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,889. CAPS FOR CHILDREN. THE FEDERAL KNITTING MILLS COMPANY, Cleveland, Ohio.
Filed June 19, 1928. Serial No. 268,274. PUBLISHED SEPTEMBER 11, 1928. Class 39.



249,890. DRESSES FOR WOMEN, MISSES, AND CHILDREN. TRIPPE, BARKER & CO., New York, N. Y.
Filed June 18, 1928. Serial No. 268,256. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,891. SMOKING TOBACCO. HENRY SUTLIFF, doing business as H. Sutliff Pipe Shop, San Francisco, Calif.
Filed June 18, 1928. Serial No. 268,251. PUBLISHED SEPTEMBER 11, 1928. Class 17.

249,892. WEEKLY MAGAZINE. FRANKLIN PINKHAM, New York, N. Y.
Filed June 18, 1928. Serial No. 268,245. PUBLISHED SEPTEMBER 4, 1928. Class 38.

249,893. FABRICS IN THE PIECE OF SILK, ARTIFICIAL SILK, AND SILK OR ARTIFICIAL-SILK MIXTURES. FRANK & COHEN SILK CORP., New York, N. Y.
Filed May 26, 1928. Serial No. 267,042. PUBLISHED SEPTEMBER 18, 1928. Class 42.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

249,894. (CLASS 2. RECEPTACLES.) THE ADAMS BAG COMPANY, Chagrin Falls, Ohio. Filed July 27, 1928. Serial No. 270,221.

NEVERBURST

For Paper Sacks and Bags Employed to Contain Flour and Analogous Materials.
Claims use since Jan. 1, 1908.

249,895. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERMONT MAPLE SYRUP CO. INC., Burlington, Vt. Filed Sept. 21, 1928. Serial No. 272,779.

THE SUGAR MAPLE

For Maple-Sap Syrup.
Claims use since on or about Jan. 1, 1926.

249,896. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLINTON G. BURGER, doing business as Roseland Poultry Farm, Mansfield, Ohio. Filed Sept. 12, 1928. Serial No. 272,250.

BIG WHITE HENNERY EGGS

The lining on the drawing indicates that the word "Eggs" is preferably shown in red.
For Eggs.
Claims use since Jan. 15, 1922.

249,897. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HILL-HUBBELL & COMPANY, San Francisco, Calif. Filed Sept. 11, 1928. Serial No. 272,214.

BLACKINWHITE

For Paint Composed Principally of Aluminum and a Bituminous Base.
Claims use since Oct. 4, 1923.

249,898. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed Sept. 8, 1928. Serial No. 272,082.

INTER-TWILL

For Piece Goods—Viz, Shade Cloth.
Claims use since May 1, 1926.

249,899. (CLASS 15. OILS AND GREASES.) RILEY PENN OIL CO., Burlington, Iowa. Filed Aug. 29, 1928. Serial No. 271,708.

"RILEY BROS.—THAT'S OIL"

For Lubricating Oils, Lubricating Greases, Gasoline, and Kerosene.
Claims use since about June, 1926.

249,900. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORIDA GRAPEFRUIT CANNING CO., INC. Bradenton, Fla. Filed Aug. 27, 1928. Serial No. 271,598.

BROKN

For Canned Grapefruit.
Claims use since January, 1927.

249,901. (CLASS 39. CLOTHING.) SAM BROWN, doing business as Brown Clothing Company, Minneapolis, Minn. Filed Aug. 24, 1928. Serial No. 271,471.

Brown's BIG VALUES

For Suits, Overcoats, and Pants for Men and Boys.
Claims use since May 1, 1918.

249,902. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) S & M LAMP CO. INCORPORATED, Los Angeles, Calif. Filed July 28, 1928. Serial No. 270,303.

OVAL-LITE

For Electric Lamps—Namely, Electric Automobile and Motor-Cycle Headlights, Electric Spotlights, Electric Fog Lights, Electric Trouble Lights, Electric Searchlights, Electric Lamp Standards and Lamp Fittings, Metal Brackets and Parts for Electric Lamps, and Electric Reflectors.
Claims use since Oct. 15, 1926.

249,903. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed July 17, 1928. Serial No. 269,728.

MEDFORD

For Prepared Mustard.
Claims use since Oct. 1, 1912.

249,904. (CLASS 38. PRINTS AND PUBLICATIONS.) CURTIS-MARTIN NEWSPAPERS, INC., Philadelphia, Pa. Filed July 11, 1928. Serial No. 269,396.

*Lois Leeds*

For Nom de Plume for Newspaper Articles, Magazine Articles, Etc.
Claims use since Nov. 13, 1922.

249,905. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE WIREMOLD COMPANY, Hartford, Conn. Filed June 9, 1928. Serial No. 267,818.

SLICK-FINISH

For Insulated Electrical Conductors and Nonmetallic Conduits for Electrical Conductors.
Claims use since July 22, 1926.

249,906. (CLASS 45. BEVERAGES, NONALCOHOLIC.) ALBERT NANFRO, New York, N. Y. Filed May 1, 1928. Serial No. 265,736.

"NANFRO"

For Nonalcoholic, Noncereal, Maltless Beverage Consisting of Extracted Orange Juice, Orange-Shade Color, Certified Lot #6569, Citric Acid, Sugar, and Water.
Claims use since March, 1927.

249,907. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAKER, BOIES & WATSON COMPANY, Boston, Mass. Filed Apr. 30, 1928. Serial No. 265,611.

SELECTED SEA FOOD

For Fresh, Frozen, Smoked, Salted, Fillet, Canned, and Preserved Seafood.
Claims use since Feb. 21, 1927.

249,908. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLAMETTE GROCERY CO., Salem, Oreg. Filed Mar. 28, 1928. Serial No. 263,908.

ELSINORE

For Canned Fruits, Canned Vegetables, Canned Fish, Breakfast Cereals.
Claims use since Sept. 1, 1927.

249,909. (CLASS 15. OILS AND GREASES.) BENDIX BRAKE COMPANY, Chicago, Ill., and South Bend, Ind. Filed Mar. 26, 1928. Serial No. 263,745.

BENDIX

For Lubricating Materials—Namely, Brake Oil.
Claims use since Oct. 11, 1926.

249,910. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) BENDIX BRAKE COMPANY, Chicago, Ill., and South Bend, Ind. Filed Mar. 26, 1928. Serial No. 263,744.

BENDIX

For Friction Materials—Namely, Brake Lining.
Claims use since Oct. 11, 1926.

249,911. (CLASS 32. FURNITURE AND UPHOLSTERY.) ENOCH LARSON, Eldora, Iowa. Filed Mar. 12, 1928. Serial No. 263,005.

SELWEL

For Tie-Display Racks, Shoe-Display Racks, Hosiery Display Racks.
Claims use since Aug. 1, 1927.



249,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WENATCHEE OKANOGAN CO-OPERATIVE FEDERATION, Wenatchee, Wash. Filed Feb. 25, 1928. Serial No. 262,276.

RiteGrade

For Fresh Apples.
Claims use since September, 1923.

249,913. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RADIO LINIMENT & SALVE CO., St. Louis, Mo. Filed Feb. 23, 1928. Serial No. 262,120.

RADIO
Liniment & Salve Co.

For Liniment and Salve for External Use in Treating Rheumatism and Salts for Internal Use.
Claims use since December, 1926.

249,914. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CONSOLIDATED ELECTRIC LAMP CO., Danvers, Mass. Filed Feb. 23, 1928. Serial No. 262,063.

Lamps BULBS TRADE MARK

For Electric Incandescent Lamps and Elektron Radio Tubes.
Claims use since Jan. 1, 1923.

249,915. (CLASS 39. CLOTHING.) DINA LEE LINGERIE COMPANY, INC., Minneapolis, Minn. Filed Feb. 18, 1928. Serial No. 261,866.

DINA LEE

For Pajamas, Chemises, Nightgowns, Lounging Robes, Bloomers, Panties, Bandeaux in the Nature of an Undergarment, Step-Ins, Novelty Aprons, Smocks, Slips, Petticoats, Bloomer Combinations, Slip and Pantie Combinations, and Vests for Under Wear.
Claims use since July 1, 1927.

249,916. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DOROTHY FLANTZMAN, doing business as Rosemary Candy Company, San Francisco, Calif. Filed Nov. 17, 1927. Serial No. 257,671.

MILKY-CHEW

For Candy.
Claims use since Aug. 30, 1927.

249,917. (CLASS 39. CLOTHING.) BURNHAM-MUNGER-ROOT DRY GOODS COMPANY, Kansas City, Mo. Filed Nov. 10, 1927. Serial No. 257,342.

Lenore

For Women's and Misses' Dresses and Aprons.
Claims use since July 5, 1927.

249,918. (CLASS 27. HOROLOGICAL INSTRUMENTS.) A. C. BECKEN COMPANY, Chicago, Ill. Filed Nov. 9, 1927. Serial No. 257,271.

STANLEY

For Watches and Clocks.
Claims use since Sept. 23, 1927.

249,919. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WASCO MANUFACTURING CO., Richmond, Ind. Filed Oct. 19, 1927. Serial No. 256,318.

"SURE CHARGE"

For a Storage-Battery Acid.
Claims use since Oct. 1, 1927.

249,920. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WM. H. RANKIN COMPANY, Chicago, Ill. Filed Oct. 17, 1927. Serial No. 256,211.

FACE SHAMPOO

For a Cream Soap for Toilet Purposes and Particularly for Use Upon the Face.
Claims use since about Sept. 15, 1927.

249,921. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ROBERTSHAW THERMOSTAT COMPANY, Youngwood, Pa. Filed Sept. 9, 1927. Serial No. 254,562.

THE NON-CLOG BY-PASS

For Thermostats.
Claims use since Aug. 29, 1927.

249,922. (CLASS 37. PAPER AND STATIONERY.) MID-STATES GUMMED PAPER CO., Chicago, Ill. Filed Mar. 12, 1926. Serial No. 228,553.

-they lie flat

For Gummed Papers.
Claims use since Feb. 2, 1924.

# TRADE-MARK REGISTRATIONS RENEWED

31,485. PANTS, COATS, VESTS, AND OVERALLS. Registered April 26, 1898. BRAY CLOTHING COMPANY, Renewed April 26, 1928, to Bray, Robinson, Clothing Co., Louisville, Ky., a Corporation of Kentucky, successor.

32,058. HYDRAULIC HOSE. Registered October 18, 1898. EUREKA FIRE HOSE COMPANY, New York, N. Y. Renewed October 18, 1928, to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

32,059. HYDRAULIC HOSE. Registered October 18, 1898. EUREKA FIRE HOSE COMPANY, New York, N. Y. Renewed October 18, 1928, to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

32,060. HYDRAULIC HOSE. Registered October 18, 1898. EUREKA FIRE HOSE COMPANY, New York, N. Y. Renewed October 18, 1928, to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

32,061. HYDRAULIC HOSE. Registered October 18, 1898. EUREKA FIRE HOSE COMPANY, New York, N. Y. Renewed October 18, 1928, to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

32,062. HYDRAULIC HOSE. Registered October 18, 1898. EUREKA FIRE HOSE COMPANY, New York, N. Y. Renewed October 18, 1928, to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey, assignee.

32,082. IRON, STEEL, AND MANUFACTURES. Registered October 18, 1898. ERNST HAMMESFAHR, Foche, near Solingen, Germany. Renewed October 18, 1928, to Ernst Gottlieb Hammesfahr, doing business as Gottlieb Hammesfahr, Solingen-Foche, Germany, assignee.

32,098. PLOWS AND THEIR PARTS. Registered October 25, 1898. SYRACUSE CHILLED PLOW CO. Renewed October 25, 1928, to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y., a Corporation of New York, assignee.

32,315. A MEDICINAL PREPARATION FOR HUMAN USE. Registered January 3, 1899. J. C. ENO, LIMITED. Renewed January 3, 1929, to J. C. Eno, Limited, London, England, a Corporation of Great Britain, assignee.

32,341. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS AND SHOES. Registered January 10, 1899. THOMAS G. PLANT CO. Renewed January 10, 1929, to Thomas G. Plant Corporation, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

32,703. SOAP, DENTIFRICE, AND HAIR PREPARATIONS. Registered April 11, 1899. THE COMFORT POWDER COMPANY, Hartford, Conn. Renewed April 11, 1929, to The Comfort Powder Company, Inc., Boston, Mass., a Corporation of Massachusetts, assignee.

# LABELS

## REGISTERED NOVEMBER 20, 1928.

34,949.—*Title:* CHEF. For Loganberries. THE J. S. BROWN MERCANTILE COMPANY, Denver, Colo. Published September 15, 1928.

34,950.—*Title:* FRUTE-WIP. For Desserts or Dessert Preparations and Foods. CALIFORNIA FRUTE-WIP COMPANY, Los Angeles, Calif. Published September 21, 1928.

34,951.—*Title:* GREEN BABIES. For Canned Peas. CHIPPEWA CANNING CO., Chippewa Falls, Wis. Published September 15, 1928.

34,952.—*Title:* FEVOLA PRESTO CRYSTAL CLEANER. For Cleaner for Anything Made from Glass or Anything with an Enameled Surface. COLOMBO MANUFACTURING CO., Brooklyn, N. Y. Published September 15, 1928.

34,953.—*Title:* DAWN. For Cleaner for Enamel Porcelain and General Household Cleaning. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio. Published September 19, 1928.

34,954.—*Title:* BLUE FLAG. For Fresh Prunes. EARL FRUIT COMPANY, Wenatchee, Wash. Published September 1, 1928.

34,955.—*Title:* JEAN WATER WAVE AND SPORTS NET. For Water-Wave and Sports Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published April 26, 1928.

34,956.—*Title:* KRESSENT WATER WAVE AND SPORTS NET. For Water-Wave and Sports Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published June 6, 1928.

34,957.—*Title:* REGINA WATER WAVE AND SPORTS NET. For Water-Wave and Sports Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published April 27, 1928.

34,958.—*Title:* LORRAINE WATER WAVE AND SPORTS NET. For Water-Wave and Sports Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published June 6, 1928.

34,959.—*Title:* REGINA WATER WAVE NET WITH CHIN ELASTIC. For Water-Wave Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published July 23, 1928.

34,960.—*Title:* JEAN WATER WAVE NET WITH CHIN ELASTIC. For Water-Wave Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published July 23, 1928.



34,961.—*Title:* LORRAINE WATER WAVE NET WITH CHIN ELASTIC. For Water-Wave Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published July 23, 1928.

34,962.—*Title:* KRESSENT WATER WAVE NET WITH CHIN ELASTIC. For Water-Wave Nets. S. GLEMBY'S SONS CO., INC., New York, N. Y. Published July 23, 1928.

34,963.—*Title:* FOREST PARK TOILET TISSUE. For Toilet Paper. GRAHAM PAPER COMPANY, St. Louis, Mo. Published October 1, 1928.

34,964.—*Title:* GOLD BATH. For Liquid Sulphur. EDWARD GREUZARD, Los Angeles, Calif. Published July 2, 1928.

34,965.—*Title:* $1000.00 GUARANTEED ENAMEL CLEANER. For Enamel Cleaner in Powder Form. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,966.—*Title* $1000.00 GUARANTEED OZO BOWL CLEANER. For Bowl Cleaner in Powder Form. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,967. *Title:* $1000.00 GUARANTEED RAT AND MOUSE KILLER. For Rat and Mouse Killer in Paste Form. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,968.—*Title:* HELLER'S FANCY-PASTRY DESSERT POWDER. For Preparation in Powder Form for Making Desserts. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,969.—*Title:* HELLER'S JELL-JELL. For Gelatine Dessert in Powder Form. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,970.—*Title:* $1000.00 GUARANTEED RAT AND MOUSE KILLER. For Rat and Mouse Killer in Paste Form. B. HELLER & COMPANY, Chicago, Ill. Published October 1, 1928.

34,971.—*Title:* WORLDS BEST SOUP HUNGARIAN GULASH. For Canned Soup. JAMES IFFU, SONS & COMPANY, Crown Point, Ind. Published August 14, 1928.

34,972.—*Title:* JEWEL BEST COFFEE. For Coffee. JEWEL TEA CO., INC., Central Valley, N. Y., and Chicago, Ill. Published September 19, 1928.

34,973.—*Title:* BRITE BRASS LINOLEUM SEAM BINDING & EDGING. For Linoleum Seam Binding and Edging. W. S. KINKEAD, Chicago, Ill. Published July 10, 1928.

34,974.—*Title:* VELVE, FOR MILADY'S BEAUTY BATH. For Bath Preparation. JACOB S. KITZEN, New York, N. Y. Published July 6, 1928.

34,975.—*Title:* SOUTHERN PECAN DELIGHT, A FOOD CANDY. For a Bar of Pecan-Covered Candy. EMILE LORTHIOIR, doing business as Bellmore Candy Company, Bellmore, Long Island, N. Y. Published May 28, 1928.

34,976.—*Title:* GREEN GIANT. For Peas. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn. Published July 23, 1928.

34,977.—*Title:* DEL MAIZ. For Corn. MINNESOTA VALLEY CANNING COMPANY, Le Sueur, Minn. Published September 11, 1928.

34,978.—*Title:* NEIGHBORHOOD. For Coffee. NEIGHBORHOOD STORES, INC., San Francisco, Calif. Published July 1, 1928.

34,979.—*Title:* ZONOX. For Dentifrice, Mouth Wash, and Gargle. PAN-AMERICAN CHEMICAL CO., Santa Rita, N. Mex., and Chicago, Ill. Published May 16, 1928.

34,980.—*Title:* GOLDEN AGE JEL. For Gelatin Dessert. BAYARD S. SCOTLAND, doing business as Golden Age Co., Joliet, Ill. Published July 20, 1928.

34,981.—*Title:* POLAR B'AR. For Bodies of Ice Cream Having a Coating of Edible Substance. SOUTHERN DAIRIES, INC., Washington, D. C. Published September 15, 1928.

34,982.—*Title:* VAN'S BRAND. For Okra. VAN'S SUN DRIED OKRA CO., New Orleans, La. Published August 30, 1928.

34,983.—*Title:* WHOLE WHEAT VEGETIZED WAFERS. For a Wafer. VEGETABLE PRODUCTS CORPORATION, Los Angeles, Calif. Published June 23, 1928.

34,984.—*Title:* WATCH YOUR WATE GUARD YOUR HEALTH. For Weighing Scales. JOHN B. WATLING, doing business as The Watling Scale Company, Chicago, Ill. Published January 16, 1928.

34,985.—*Title:* YOUR FORTUNE AND WEIGHT. For Weighing Scales. THOMAS W. B. WATLING, doing business as Watling Manufacturing Company, Chicago, Ill. Published August 16, 1928.

34,986.—*Title:* PENARTH LINEN. For Stationery and Envelopes. WHITE & WYCKOFF MFG. CO., Holyoke, Mass. Published September 29, 1928.

34,987.—*Title:* G. F. WRIGHT STEEL & WIRE CO. For Poultry-Netting Rolls. G. F. WRIGHT STEEL & WIRE CO., Worcester, Mass. Published August 8, 1928.

# PRINTS

## REGISTERED NOVEMBER 20, 1928.

11,334.—*Title:* USE ELIZABETH ARDEN'S PREPARATIONS. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published September 27, 1928.

11,335.—*Title:* BEECH-NUT BLACK COUGH DROPS. For Cough Drops. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published September 2, 1926.

11,336.—*Title:* THE FLAVOR STICKS. For Chewing Gum. THE CURTISS CANDY COMPANY, doing business as Curtiss Gum Company, Chicago, Ill. Published July 1, 1928.

11,337.—*Title:* THE MAN'S CHOICE—M. J. B.—THE FULL-FLAVORED COFFEE. For Coffee. M. J. B. COMPANY, San Francisco, Calif. Published April 3, 1928.

11,338.—*Title:* EXPRESSING CHARM IN INTERIOR DECORATIONS. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y. Published October 1, 1928.

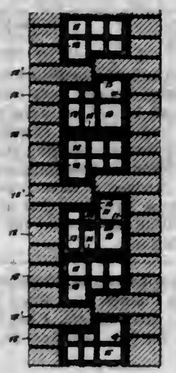
11,339.—*Title:* SWANFLEECE FOR EVERY WOMAN. For Sanitary Napkins. VELDOWN COMPANY, INC., New York, N. Y. Published July 14, 1928.

11,340.—*Title:* COMODORA PARA TODA MUJER. For Sanitary Napkins. VELDOWN COMPANY, INC., New York, N. Y. Published September 14, 1928.

# REISSUES

## NOVEMBER 20, 1928.

17,137. **BUILDING BLOCK AND CONSTRUCTION.** JOHN EISENMANN, deceased, Cleveland, Ohio, by The Manell Building Block & Tile Company, assignee, Cleveland, Ohio. Filed Sept. 29, 1928. Serial No. 309,281. Original No. 1,456,373, dated May 22, 1923, Serial No. 367,064, filed Mar. 19, 1920. 12 Claims. (Cl. 72—41.)

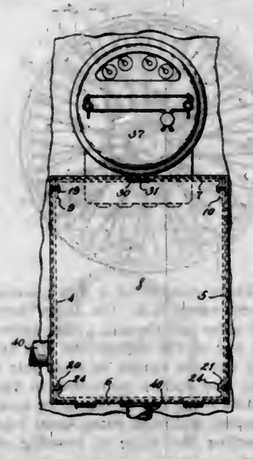


12. A composite brick and hollow tile wall comprising a hollow tile part and a brick facing part including courses of header brick extending into the tile part and five courses of stretcher brick laid between adjacent header courses and disposed without the tile part, said hollow tile part comprising blocks all shaped alike and each having horizontal bearing portions formed with an offset equal to half the height of one course of brick and each block having a maximum height equal to the thickness of three brick plus two mortar joints, said blocks being arranged in vertically disposed pairs with the offset bearing portions of adjacent blocks facing each other and bonding the upper and lower faces of the inner ends of the header brick between them and having between them a mortar joint opposite the header bricks, each pair of tile blocks being disposed between like pairs above and below and bearing along mortar joints in the same horizontal plane, which pairs of blocks in turn have bonded between them the inner ends of the next adjacent header courses of brick, the vertical height of each pair of blocks plus the mortar joint opposite the header bricks being equal to the thickness of six brick plus five mortar joints, every header course in the wall being bonded between separate and distinct pairs of blocks and every separate pair of blocks embracing a distinct header course of brick.

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17,138. **CONVERTIBLE ELECTRIC-APPLIANCE-RECEIVING BOX.** JOSEPH SACHS, Hartford, Conn. Filed Apr. 4, 1925. Serial No. 20,843. Original No. 1,206,323, dated Mar. 4, 1919, Serial No. 111,386, filed July 26, 1916. 6 Claims. (Cl. 247—2.)

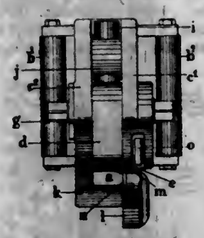
1. An electric appliance-receiving box constituted of a body portion comprising back and opposite walls and two mutually interchangeable intermediate walls, one of said intermediate walls being provided with means adapting it to function as a meter adapter element, and means for



removably securing said intermediate walls to said body, said means being independent of the connection of said opposite walls to the back wall.

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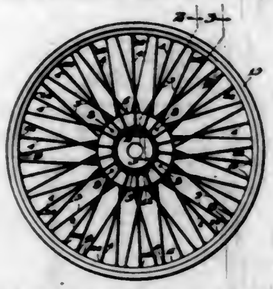
17,139. **SHEARS.** HUBERT GASTON RAPHAEL VULLIET and FRANÇOIS ALEXIS HENRI DESCHÂTRES, Paris, France, assignors to André Gueneau, Paris, France. Filed Oct. 25, 1927. Serial No. 228,680. Original No. 1,493,171, dated May 6, 1924, Serial No. 598,474, filed Nov. 2, 1922. 6 Claims. (Cl. 164—57.)



1. A shears for cutting sheet-iron plates and other materials comprising: a frame,—guide handles,—two parallel cheeks formed in the said frame,—a hook at the base of the frame,—a fixed blade of the shears, obliquely secured at the end of this hook,—a driving shaft journaled in the said cheeks, a central eccentric bearing on the said shaft and situated in the interval separating the said cheeks, a blade-carrier mounted on the central bearing of the driving shaft and receiving from the latter a reciprocating movement moving it towards and from the fixed blade,—a movable blade secured in an inclined position at the base of this blade-carrier,—means for imparting to this movable blade, simultaneously with the above reciprocating movement, a reciprocating movement in the direction of advance and recoil of the shears,—

means permitting to turn the shears, during the cutting operation, on the material to be cut, in very small radii for cutting out curved outlines,—means for guiding and releasing the material cut without distorting the same.

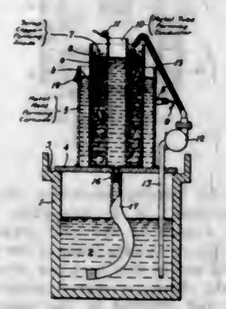
17,140. METAL WHEEL. JAMES M. JONES, Manchester, Ky., assignor, by direct and mesne assignments, of twenty-seven and one-half per cent to Ralph A. Kennedy, Hamilton, Ohio, and twelve and one-half per cent to Richard C. Kennedy, Cincinnati, Ohio. Filed Mar. 31, 1928. Serial No. 266,404. Original No. 1,642,207, dated Sept. 13, 1927, Serial No. 148,002, filed Nov. 12, 1926. 12 Claims. (Cl. 301—59.)



1. A metal wheel comprising a hub provided with enlarged inner and outer ends, the inner hub end being larger than the outer end thereof, a rim, spokes extending from the inner end of the hub to the rim and being arranged in pairs and the spokes of each pair arranged in crossed relation, and spokes connected to the other hub end and rim, there being one of the outer spokes for each pair of inner spokes and each outer spoke being arranged in a plane bisecting the angle of crossing of each pair of inner spokes.

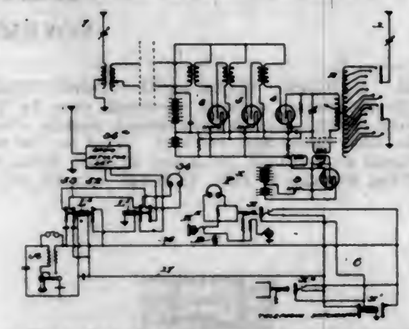
12. An all metal wheel comprising a rim, an elongated sleeve hub and a circumferential series of individual three-member spoke groups, each group comprising a radial brace rod and a pair of spokes crossing in the radial plane of said rod, the opposite ends of said rods and spokes being upset in the metal of the hub and rim ends respectively, providing tension securance of the rim in relation to the hub.

17,141. APPARATUS FOR PRODUCING ARTICLES BY ELECTROLYTIC DEPOSITION. GUNNAR ROSENQVIST, Pittsburgh, Pa. Filed Aug. 11, 1927. Serial No. 212,326. Original No. 1,594,509, dated Aug. 3, 1926, Serial No. 11,000, filed Feb. 24, 1925. 6 Claims. (Cl. 204—11.)



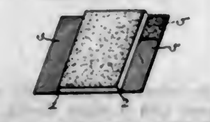
1. An apparatus of the character described, comprising in combination a container for an electrolytic solution, a metal mold capable of holding a solution disposed outside of said container, a support disposed within said metal mold and adapted to contain scrap copper, means for causing the circulation of the solution from said container through said support and means for electrically connecting said scrap copper and mold with a source of current.

17,142. RADIO BROADCAST SELECTING AND DISTRIBUTING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Jan. 5, 1927. Serial No. 159,249. Original No. 1,522,361, dated Jan. 6, 1926, Serial No. 690,076, filed Feb. 29, 1924. 12 Claims. (Cl. 250—6.)



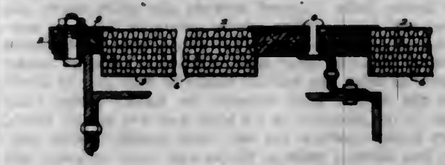
4. The method of relaying messages from primary transmitting stations using various wave lengths to a plurality of receiving stations in a local area permanently tuned to a fixed wave length, which comprises receiving any one of the primary waves, changing the frequency of the received wave by amounts depending upon the particular wave received to produce a wave always the same and corresponding in wave length to that of the receiving stations, and transmitting the wave at the changed frequency to the receiving stations.

17,143. SHINGLE OR BLOCK CONSTRUCTION. ALBERT C. FISCHER, Des Plaines, Ill. Filed Mar. 6, 1925. Serial No. 13,647. Original No. 1,447,290, dated Mar. 6, 1923, Serial No. 229,681, filed Apr. 20, 1918. 16 Claims. (Cl. 108—8.)



1. A roof comprising shingles, each of which comprises a body portion having a flexible backing portion extending from opposite side edges thereof, said shingles being arranged with one of the extending portions of certain of said shingles lying between the body portion and the backing of an adjacent shingle.

17,144. PANEL. WALTER M. SCHWARTZ, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 5, 1928. Serial No. 310,637. Original No. 1,652,055, dated Dec. 6, 1927, Serial No. 107,675, filed May 8, 1926. 4 Claims. (Cl. 72—16.)

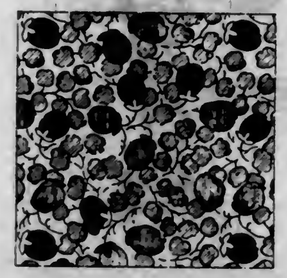


1. The combination in a panel of two plates spaced apart forming the front and the back of the panel; a wall extending from the front to the rear plate around the edges of the panel; an extension on one of said plates beyond said edge wall; a flange on said extension projecting toward the other of said plates, whereby a channel is formed around the panel outside said edge wall; and an insert of non-conducting material located in said channel having a bearing surface extending outwardly from and at an angle with respect to said edge wall.

# DESIGNS

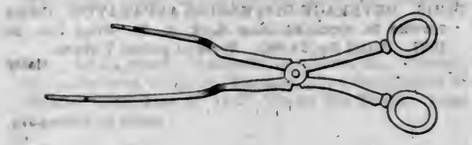
## NOVEMBER 20, 1928.

76,908. TEXTILE FABRIC. LINCOLN BARKER, New York, N. Y., assignor to Trippe, Barker & Co., New York, N. Y., a Corporation of New York. Filed Feb. 20, 1928. Serial No. 25,498. Term of patent 3½ years.



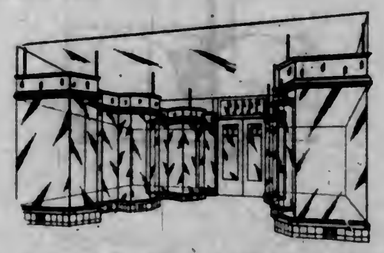
The ornamental design for a textile fabric substantially as shown.

76,909. COMBINATION FOOD SERVER. PETER H. BENDERO, Minneapolis, Minn. Filed June 2, 1928. Serial No. 26,972. Term of patent 7 years.



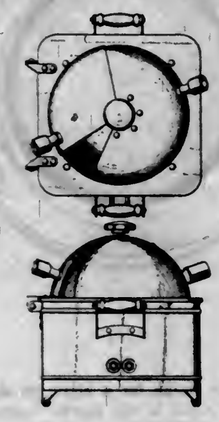
The ornamental design for a combination food server, as shown.

76,910. STORE FRONT. JACOB B. BERLAND, St. Louis, Mo. Filed Dec. 9, 1927. Serial No. 24,423. Term of patent 14 years.



The ornamental design for a store-front substantially as shown.

76,911. ELECTRIC CORN POPPER. ALFRED BERSTED and MARTIN BERSTED, Chicago, Ill. Filed July 16, 1928. Serial No. 27,506. Term of patent 7 years.



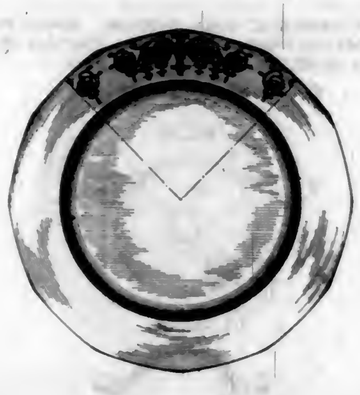
The ornamental design for an electric corn popper, as shown.

76,912. TEXTILE FABRIC OR SIMILAR ARTICLE OF MANUFACTURE. ALBERT H. BIEN, Philadelphia, Pa. Filed Apr. 5, 1928. Serial No. 26,135. Term of patent 14 years.



The ornamental design for textile fabric or similar article of manufacture, substantially as shown and described.

76,913. PLATE. EDGAR M. BOTTOME, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a Corporation of West Virginia. Filed Aug. 17, 1928. Serial No. 27,869. Term of patent 14 years.



The ornamental design for a plate, as shown and described.

76,914. DRESS. KATHERINE E. BURNS, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 1, 1928. Serial No. 27,663. Term of patent 3½ years.



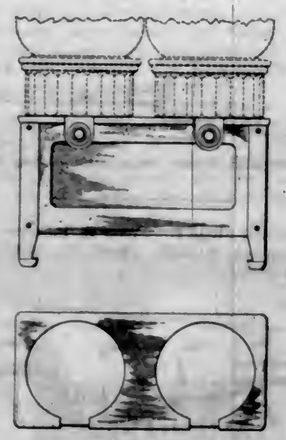
The ornamental design for a dress substantially as shown and described.

76,915. LAMP STAND. ANTONIO COLUCCI, Brooklyn, N. Y. Filed July 28, 1928. Serial No. 27,611. Term of patent 14 years.



The ornamental design for a lamp stand substantially as shown.

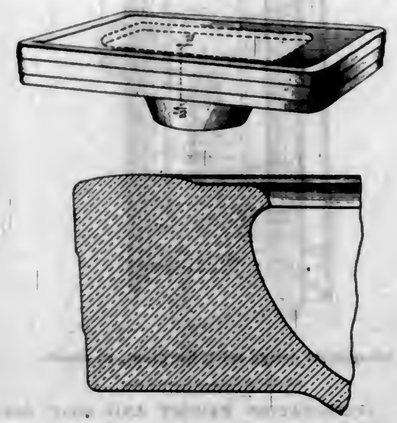
76,916. BEVERAGE-DISPENSING APPARATUS. CHRISTOPHER M. CORDLEY, New York, N. Y. Filed Dec. 29, 1927. Serial No. No. 24,685. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.



76,917. LAVATORY. CHARLES R. CRANE, 2d, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed July 22, 1927. Serial No. 22,842. Term of patent 14 years.



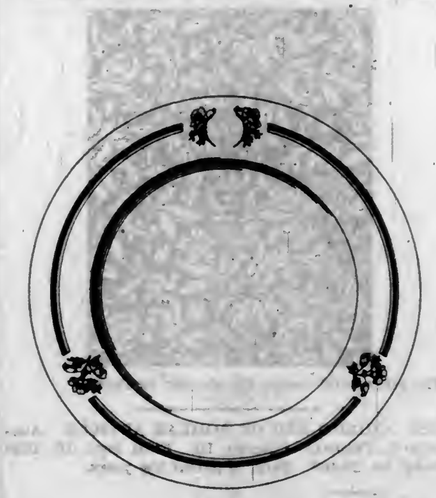
The original design for a lavatory as shown and described.

76,918. LAVATORY. CHARLES R. CRANE, 2d., Chicago, Ill., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed July 22, 1927. Serial No. 22,843. Term of patent 14 years.



The ornamental design for a lavatory as shown and described.

76,919. PLATE. EUGENE A. DE LAN, New Castle, Pa., assignor to Shenango Pottery Company, New Castle, Pa., a Corporation of Pennsylvania. Filed Aug. 16, 1928. Serial No. 27,834. Term of patent 7 years.



The ornamental design for a plate, substantially as shown.

76,920. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,154. Term of patent 3½ years.



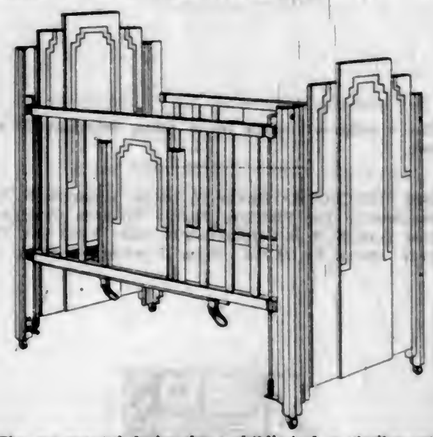
The ornamental design for oilcloth, as shown.

76,921. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,161. Term of patent 3½ years.



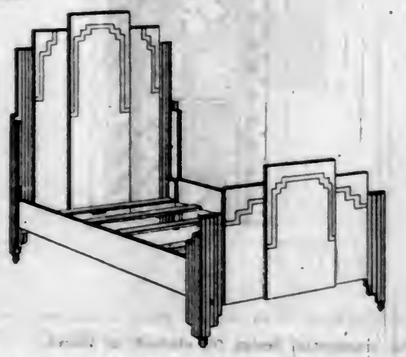
The ornamental design for oilcloth, as shown.

76,922. CHILD'S BED OR SIMILAR ARTICLE. ABRAHAM G. FELDMAN, Chicago, Ill. Filed Sept. 10, 1928. Serial No. 28,103. Term of patent 3½ years.



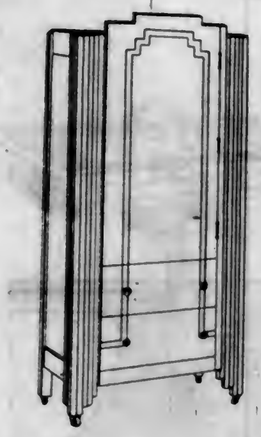
The ornamental design for a child's bed or similar article, as shown.

76,923. BED. ABRAHAM G. FELDMAN, Chicago, Ill. Filed Sept. 10, 1928. Serial No. 28,104. Term of patent 3½ years.



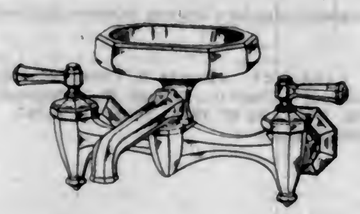
The ornamental design for a bed, as shown.

76,924. WARDROBE. ABRAHAM G. FELDMAN, Chicago, Ill. N. Y. Filed July 28, 1928. Serial No. 27,611. Term 3½ years.



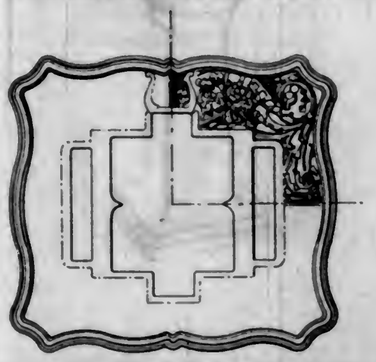
The ornamental design for a wardrobe, as shown.

76,925. COMBINATION FAUCET AND SOAP DISH. FRED W. FRANKENBERGER, Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 8, 1928. Serial No. 25,281. Term of patent 14 years.



The ornamental design for a combination faucet and soap dish substantially as shown.

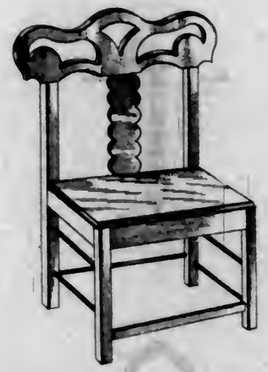
76,926. ESCUTCHEON PLATE FOR A VERNIER DIAL. JOHN GELOSO, New York, N. Y. Filed Nov. 16, 1927. Serial No. 24,145. Term of patent 3½ years.



The ornamental design for an escutcheon plate for a vernier dial, as shown and described.



76,927. CHAIR. CLARA B. YOUNG GROSVENOR, River Point, R. I. Filed Sept. 19, 1928. Serial No. 28,213. Term of patent 3½ years.



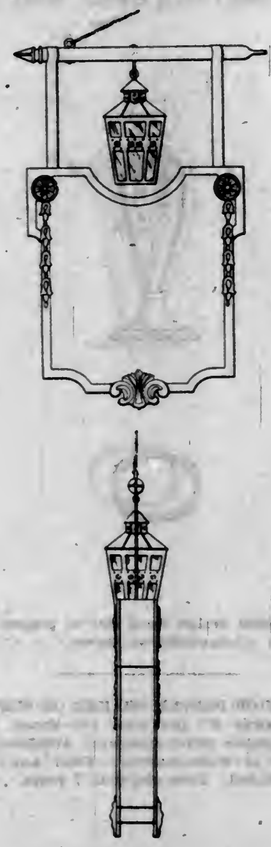
The ornamental design for a chair as shown.

76,928. STATUETTE. HARRIS C. GREEN, Hubbardston, Mass. Filed May 28, 1928. Serial No. 26,880. Term of patent 7 years.



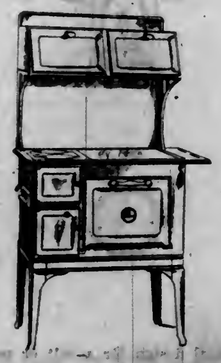
The ornamental design for a statuette as shown.

76,929. ADVERTISING SIGN. JOSEPH HUEFNER, Buffalo, N. Y., assignor to City Dairies Company, St. Louis, Mo., a Corporation of Indiana. Filed Mar. 17, 1928. Serial No. 25,897. Term of patent 14 years.



The ornamental design for an advertising sign, as shown.

76,930. STOVE. ULYSSES N. HOWELL, Rome, Ga. Filed Aug. 4, 1927. Serial No. 22,997. Term of patent 14 years.



The ornamental design for a stove, as shown.

76,931. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,002. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

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76,932. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,003. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

76,933. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,005. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

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76,934. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,006. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.



76,935. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,007. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

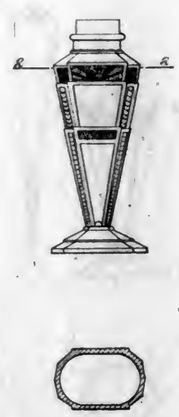
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76,936. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,008. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

76,937. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,009. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

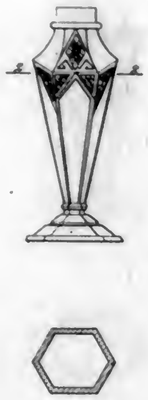
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76,938. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,010. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

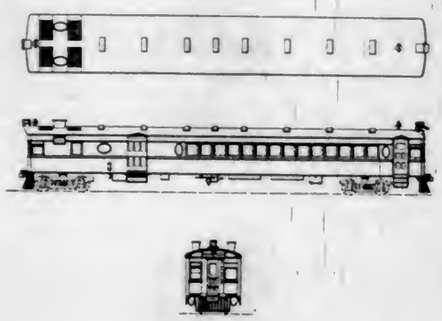
76,939. SALT OR PEPPER SHAKER OR SIMILAR ARTICLE. JAMES W. JENNINGS, Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Aug. 31, 1928. Serial No. 28,011. Term of patent 7 years.



The ornamental design for a salt or pepper shaker or similar article substantially as shown.

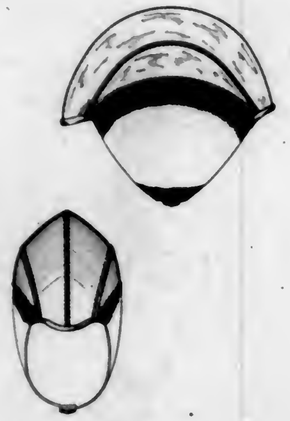
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76,940. RAILWAY-CAR BODY. WILLIAM B. JUPP, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 26, 1927. Serial No. 24,285. Term of patent 14 years.



The ornamental design for a railway car body as shown.

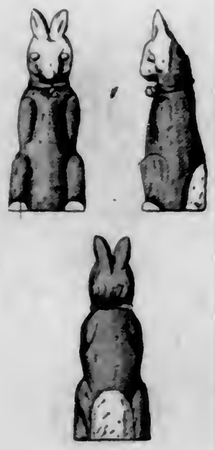
76,941. CAP. DAVID KARGER, Milwaukee, Wis. Filed July 20, 1928. Serial No. 27,540. Term of patent 7 years.



The ornamental design for a cap, as shown.

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76,942. MARSHMALLOW CANDY. WILLIAM W. KNORPP, Brooklyn, N. Y., assignor to Knorpp Candy Company, New York, N. Y., a Corporation of New York. Filed May 6, 1927. Serial No. 21,872. Term of patent 14 years.



The ornamental design for marshmallow candy as shown.



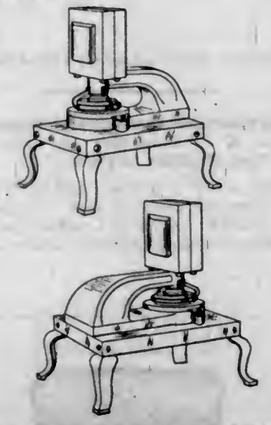
76,943. CANDLE. SUSIE T. LANE, San Diego, Calif. Filed Sept. 19, 1928. Serial No. 28,195. Term of patent 7 years.



The ornamental design for a candle, substantially as shown.

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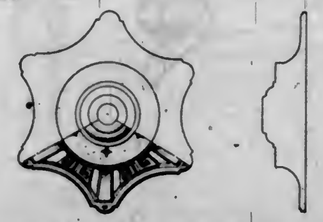
76,944. COMBINED FRAME AND CASING FOR PUNCHING MACHINES. LEO R. LE TANG, Cincinnati, Ohio. Filed Aug. 27, 1928. Serial No. 27,974. Term of patent 14 years.



The ornamental design for a combined frame and casing for a punching machine, substantially as shown.

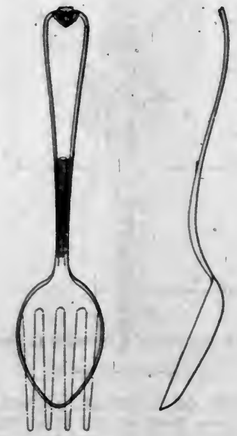
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76,945. CANDLE CUP OR ARTICLE OF ANALOGOUS NATURE. NORMAN LIPSKY, New York, N. Y., assignor to Halcolite Company, Inc., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,186. Term of patent 7 years.



The ornamental design for a candle cup or article of analogous nature, substantially as shown and described.

76,946. SPOON OR LIKE ARTICLE. HARRY A. MALINOWSKI, North Attleboro, Mass., assignor to Frank M. Whiting & Company, North Attleboro, Mass., a Corporation of Massachusetts. Filed Sept. 19, 1928. Serial No. 28,207. Term of patent 14 years.



The ornamental design for a spoon or like article as shown.

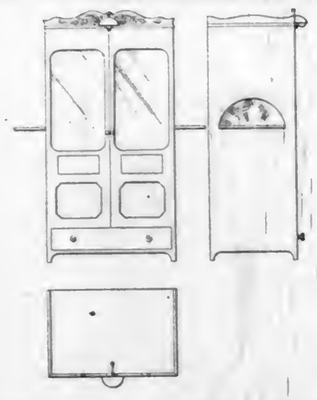
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76,947. ELECTRON-EMISSION DEVICE. FREDERICK THEODORE MAY, Montclair, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Oct. 7, 1927. Serial No. 23,664. Term of patent 14 years.



The ornamental design for an electron emission device as shown.

76,948. DRESSING CABINET. JOHN J. MCDONALD, Elizabethton, Tenn. Filed Apr. 10, 1928. Serial No. 26,213. Term of patent 7 years.



The ornamental design for a dressing cabinet, as shown.

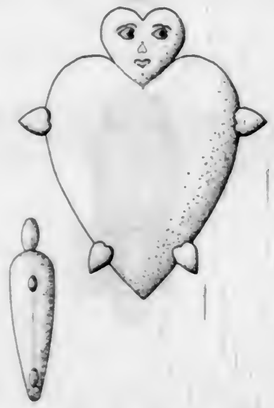
76,949. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed July 26, 1928. Serial No. 27,588. Term of patent 3½ years.





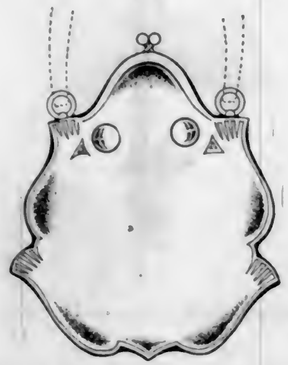
The ornamental design for a brooch or similar article as shown.

76,950. DOLL. JUANITA MILLER, Oakland, Calif. Filed June 9, 1926. Serial No. 17,992. Term of patent 3½ years.



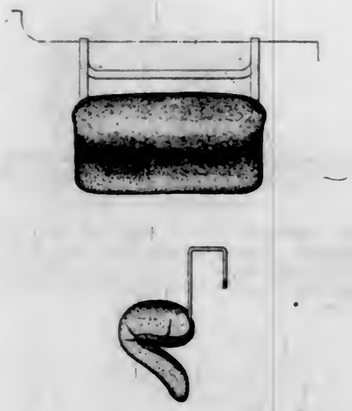
The ornamental design for a doll, as shown.

76,951. LADY'S HAND BAG. GILBERTO PALAU, New York, N. Y. Filed May 24, 1928. Serial No. 26,840. Term of patent 3½ years.



The ornamental design for a lady's hand bag, as shown.

76,952. AUTOMOBILE ARM REST. BERNARD H. PAYTON, Providence, R. I. Filed Mar. 13, 1928. Serial No. 25,827. Term of patent 14 years.



The ornamental design for an automobile arm rest, as shown.



76,953. PICTURE FRAME. JOHN MICHAEL PELLETIER and MICHAEL DESTIN PELLETIER, New York, N. Y. Filed Nov. 9, 1927. Serial No. 24,057. Term of patent 14 years.



The ornamental design for a picture frame, as shown.

76,954. BEDSTEAD. GEORGE J. PIKE, Grand Rapids, Mich., assignor to Star Furniture Company, Jamestown, N. Y., a Corporation of New York. Filed May 25, 1928. Serial No. 26,856. Term of patent 3½ years.



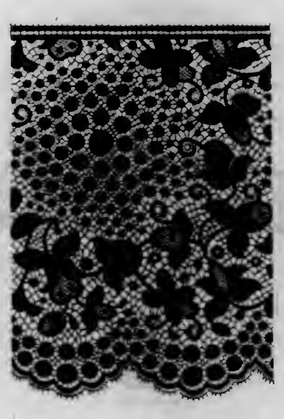
The ornamental design for a bedstead as shown.

76,955. PIN OR ARTICLE OF SIMILAR NATURE. PERRY O. POWELL, Milwaukee, Wis. Filed July 14, 1926. Serial No. 18,360. Term of patent 14 years.



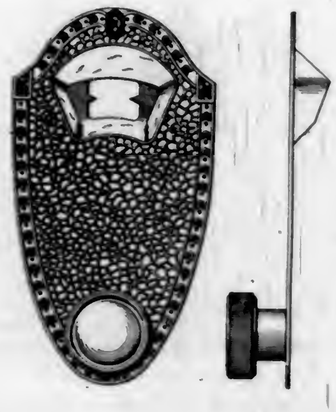
The ornamental design for a pin or article of similar nature, as shown.

76,956. LACE. JOHN V. PRICE, Providence, R. I., assignor to Rhode Island Lace Works, Inc., West Barrington, R. I., a Corporation of Rhode Island. Filed July 17, 1928. Serial No. 27,507. Term of patent 3½ years.



The ornamental design for lace substantially as shown.

76,957. ESCUTCHEON PLATE FOR A DIAL MECHANISM. WILLIAM A. READY, Brookline, Mass. Filed July 24, 1928. Serial No. 27,568. Term of patent 7 years.



The ornamental design for an escutcheon plate for a dial mechanism, as shown and described.

76,958. TREE STAND. ABRAHAM ROSENBERG, New York, N. Y. Filed June 30, 1928. Serial No. 27,337. Term of patent 7 years.



The ornamental design for a tree stand as shown.

76,959. DOME LIGHT FOR AN AUTOMOBILE. WILLIAM SCHNELL, Detroit, Mich., assignor to Ternstedt Manufacturing Co., Detroit, Mich., a Corporation of Michigan. Filed July 27, 1928. Serial No. 27,599. Term of patent 7 years.



The ornamental design for a dome light for an automobile substantially as shown.

76,960. NECKLACE OR SIMILAR ARTICLE. EMIL ARTHUR SCHUELKE, Meriden, Conn., assignor to The Napier Co., Meriden, Conn., a Corporation of Connecticut. Filed Feb. 9, 1928. Serial No. 25,308. Term of patent 7 years.



The ornamental design for a necklace or similar article as shown.

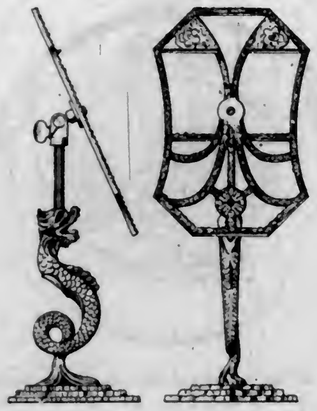
76,961. BENCH. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 10, 1928. Serial No. 27,785. Term of patent 7 years.



The ornamental design for a bench, as shown.

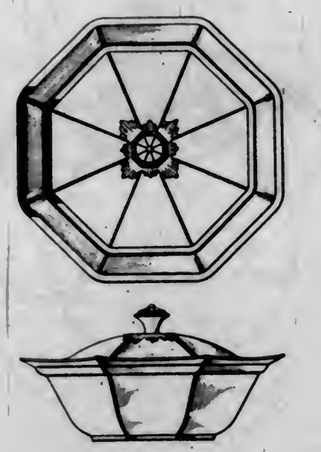


76,962. DISPLAY STAND. FRANK SOBEL, Brooklyn, N. Y., assignor to Metal Artcraft Fixture Co., New York, N. Y., a Corporation of New York. Filed Sept. 1, 1928. Serial No. 28,029. Term of patent 7 years.



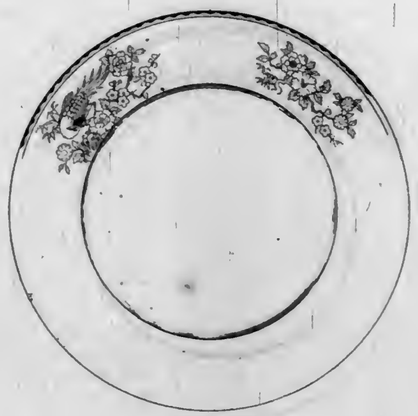
The ornamental design for a display stand, as shown.

76,963. COVERED DISH OR ANALOGOUS ARTICLE. GEORGE C. THOMPSON, East Liverpool, Ohio, assignor to The C. C. Thompson Pottery Co., East Liverpool, Ohio. Filed June 1, 1928. Serial No. 26,954. Term of patent 14 years.



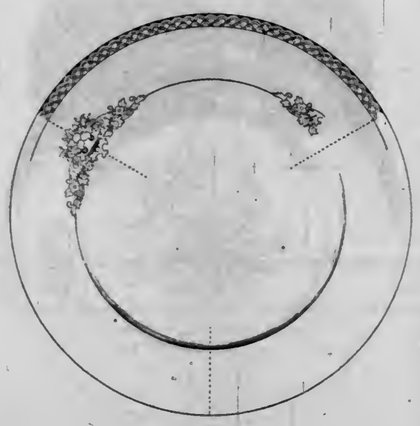
The ornamental design for a covered dish or analogous article, as shown and described.

76,964. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,371. Term of patent 7 years.



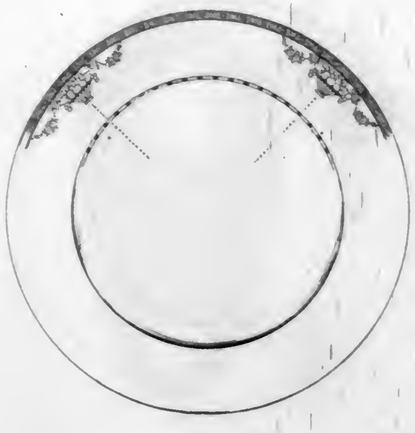
The ornamental design for a plate or similar article, as shown and described.

76,965. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,372. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,966. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,376. Term of patent 7 years.



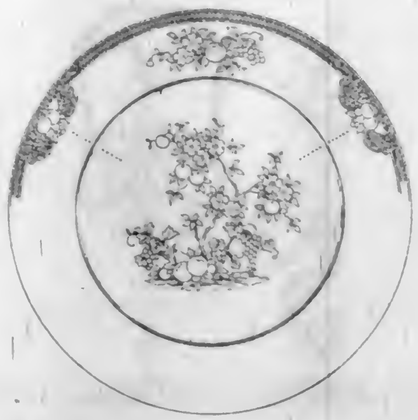
The ornamental design for a plate or similar article, as shown and described.

76,967. PLATE OF SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,386. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,968. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,390. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

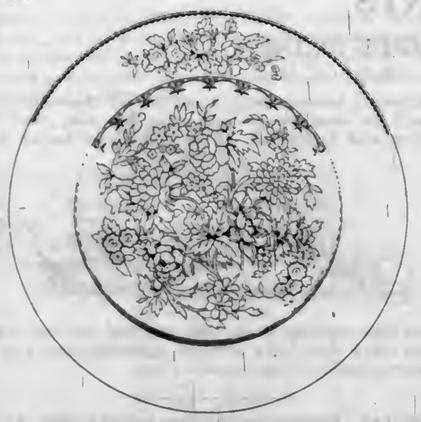
76,969. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,393. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

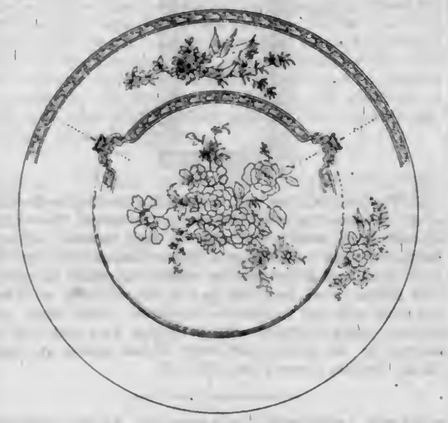


76,970. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,394. Term of patent 7 years.



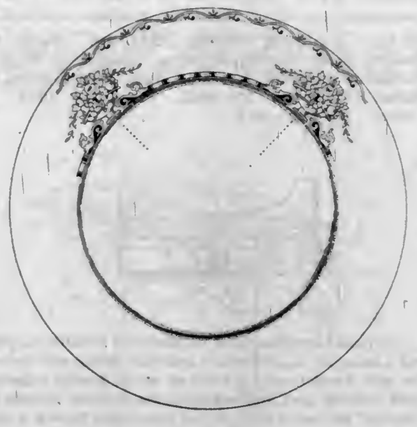
The ornamental design for a plate or similar article as shown and described.

76,971. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Feb. 10, 1928. Serial No. 25,395. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,972. PLATE OR SIMILAR ARTICLE. URASABURO TOMITA, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Aug. 16, 1928. Serial No. 27,838. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown and described.

76,973. GLASS BOWL. JOSEPH ZWEIG, Brooklyn, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y., a Corporation of New York. Filed Sept. 5, 1928. Serial No. 28,053. Term of patent 3½ years.

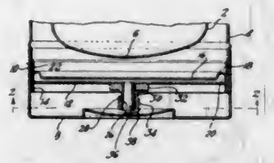


The ornamental design for a glass bowl substantially as shown.

# PATENTS

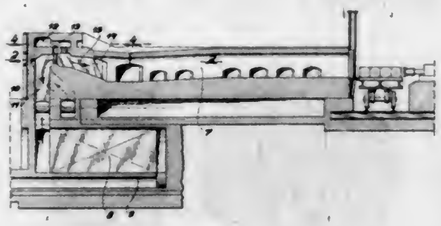
## GRANTED NOVEMBER 20, 1928.

1,691,912. VACUUM VESSEL SEALING. HARRY M. BADGER, Great Barrington, Mass., assignor to Stanley Insulating Company, Berkshire, Mass., a Corporation of Maine. Filed Feb. 12, 1925. Serial No. 8,703. 2 Claims. (Cl. 220—10.)



1. A circular baffle plate for a cylindrical metallic vacuum vessel having an outer shell, a granular filling and an exhaust port, consisting of a sheet of metal located adjacent to said exhaust port and engaging the interior surface of the wall of the outer shell of the vessel and having a plurality of slits with contacting edges permitting air to pass but preventing the passage of the granular material, the faces of the slits being of the same metal as the body portion of the plate.

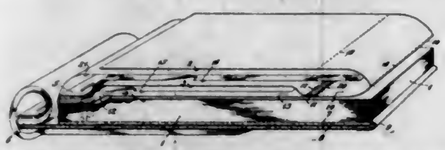
1,691,913. REGENERATIVE FURNACE. HEINRICH BANGERT and GUSTAV HUHN, Dusseldorf, Germany. Filed Dec. 30, 1927, Serial No. 243,539, and in Germany Jan. 20, 1923. 5 Claims. (Cl. 158—7.5.)



1. A regenerative furnace having two passages for alternate communication with a source of gas supply and with a stack, and connected with separate regenerator chambers, a burner passage communicating with the furnace, and a passage for supplying air, all the said passages meeting at a common air and gas mixing and mixture ignition point and the three first-named passages being so relatively arranged as to effect a division of the products of combustion into two portions supplied respectively to the burner passage and that passage of the first-named passages which at the time being communicates with the stack.

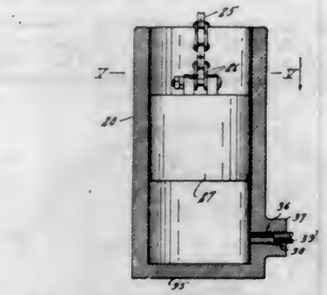
1,691,914. MANIFOLDING SALES BOOK. EDWARD KIRBY BOTTLE, Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada, a Corporation of Canada. Filed Jan. 5, 1926. Serial No. 79,447. 3 Claims. (Cl. 282—9.)

1. In a salesbook, a sheet folded upon itself to form an upper and a lower record leaf, an auxiliary leaf having attachment to the upper face of said lower record leaf intermediate between the fold and the end thereof to leave space for inscription on said upper face both above and below said attachment, all of said leaves having their



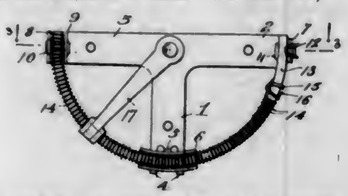
free ends extending in the same direction, the free end of said lower sheet being extended beyond the free ends of the other sheets for binding into a pad.

1,691,915. SWITCH-OPERATING MECHANISM. CLARENCE H. BOURGEOIS, Toledo, Ohio, assignor to The Haughton Elevator & Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 25, 1926. Serial No. 97,481. 8 Claims. (Cl. 200—34.)



3. The combination with a switch operating rock shaft, of an actuator for the shaft, means retarding the rocking of said shaft when acted upon by said actuator, said retarding means embodying a piston connected with the rock shaft and a cylinder in which the piston is guided, said piston, when near one end of the cylinder, cooperating with said end to form a completely closed space, said cylinder being provided with a leakage port which is uncovered by the piston only after it has moved an appreciable distance away from said end.

1,691,916. RHEOSTAT. ARTHUR C. BRADY, Brooklyn, N. Y., assignor to Chas. Freshman Co. Inc., New York, N. Y., a Corporation of New York. Filed Feb. 26, 1927. Serial No. 171,167. 1 Claim. (Cl. 201—55.)



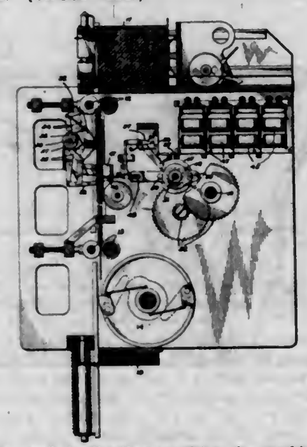
In a rheostat, the combination with a support having upturned ends, of a resistance unit secured to said ends, an arm for contacting with said unit, a hollow post se-





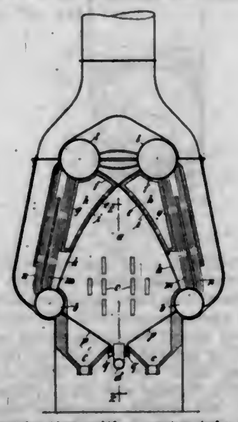
cured to said support, means for securing said arm to said post, said means being slotted to receive actuating means, and current terminals secured to said support and unit.

1,691,917. DUPLICATING MACHINE. OTTO E. BRAITMAYER, New York, N. Y., assignor to The Tabulating Machine Company, New York, N. Y., a Corporation of New Jersey. Filed July 23, 1923. Serial No. 653,063. 2 Claims. (Cl. 164—113.)



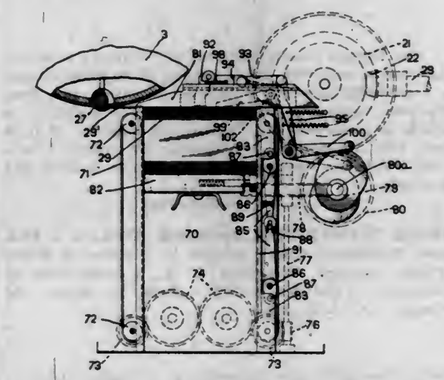
1. In a card duplicating machine, in combination with means for automatically and successively feeding punched and unpunched cards into and through the machine, means for reading desired fields of punched data upon the punched cards, means controlled by the reading means for punching said data or selected portions thereof upon any desired fields of the initially unpunched cards, and supplemental means independent of said punchings in the initially punched cards and including selective set up devices adjustable by the operator for effecting the punching of repetition data upon desired fields of the initially unpunched cards.

1,691,918. BOILER STRUCTURE WITH PULVERIZED-COAL-BURNING FURNACE. GEORG CANTIENY, Berlin, Germany, assignor to Kohlenscheidungs-Gesellschaft m. b. H., Berlin, Germany, a Corporation of Germany. Filed Oct. 21, 1925, Serial No. 63,867, and in Germany Oct. 25, 1924. 8 Claims. (Cl. 122—325.)



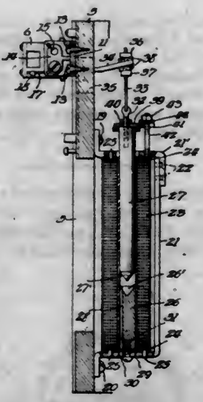
1. The combination with a water tube boiler formed by two separate boiler elements of a pulverized coal burning furnace arranged between said boiler elements, extending downwardly into two ash hoppers, upwardly directed fuel burners arranged between said ash hoppers, water cooled screens above said ash pits connected with the circulation of the boiler including headers adjacent the burners.

1,691,919. RECORD-FEEDING MACHINE. FRED M. CARROLL, Yonkers, N. Y., assignor to The Tabulating Machine Company, Endicott, N. Y., a Corporation of New Jersey. Original application filed Dec. 2, 1922, Serial No. 604,563. Divided and this application filed Dec. 10, 1926. Serial No. 153,804. 8 Claims. (Cl. 271—43.)



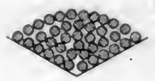
1. In a sheet feeding device, a supply container having a wall compressible against a stack of sheets, and means for moving said wall for advancing the sheets.

1,691,920. ELECTROMAGNETICALLY-ACTUATED SWITCH. GEORGE H. CHAPMAN, Chicago, Ill. Filed May 5, 1921. Serial No. 466,885. 2 Claims. (Cl. 200—111.)



2. In a switch-actuating mechanism for musical instruments, the combination of a pivoted switch bar, a laterally projecting apertured arm thereon, a solenoid magnet including an endwise movable plunger, an eye screw mounted in the outer end of said plunger, a screw-threaded pull rod articulated at one end to said eye screw and extending through the aperture of said arm, nuts on said pull rod above and below said arm whereby the effective length of said pull rod may be adjusted, and means to prevent turning movement of said plunger.

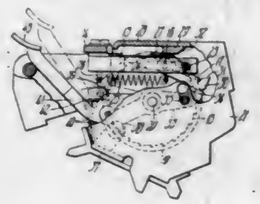
1,691,921. STRANDED SECTOR-SHAPED CONDUCTOR. NORMAN C. DAVIS, Perth Amboy, N. J., assignor, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Substitute for application Serial No. 402,832, filed Aug. 11, 1920. This application filed Apr. 20, 1927. Serial No. 185,096. 4 Claims. (Cl. 173—13.)



1. The method herein described of producing a sector-shaped cable conductor which consists in helically stranding a plurality of wires to tubular formation and then, while the component wires continue in a condition of freedom to move relatively both in the direction of their length and transversely, compressing the tubular bundle to sector shape at the expense of the tubular space within the bundle.

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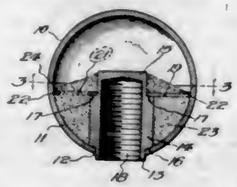
1,691,922. TYPEWRITING MACHINE. WILLIAM A. DOBSON, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 8, 1925. Serial No. 61,191. 16 Claims. (Cl. 197—114.)



1. In a typewriting machine, the combination with a rotatable platen, of a line-space wheel rotatable therewith, means to actuate the line-space wheel to line-space the platen, a detent engaging the line-space wheel to prevent overthrow, and means to disengage the detent, said disengaging means being automatically releasable upon actuation of the line-spacing means.

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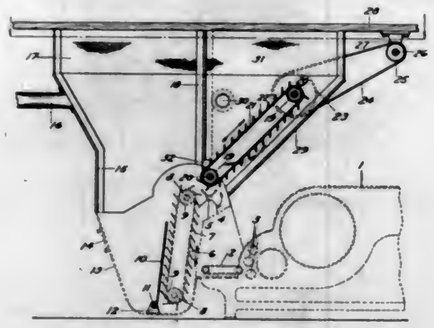
1,691,923. HANDLE FOR OPERATING LEVERS. KARL EKLUND, Forest Park, Ill., assignor to W. E. Keough Company, Forest Park, Ill., a Corporation of Illinois. Filed Mar. 19, 1928. Serial No. 262,849. 9 Claims. (Cl. 74—33.)



1. A handle for operating-levers comprising an upper and a lower shell, the lower shell being apertured, lever engaging means of greater diameter in its body portion than the diameter of the aperture, located in the shell adjacent said aperture, filling material in the shell engaging the walls of the lever engaging means, and means extending inwardly from the shell member for engaging the filling material.

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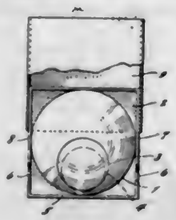
1,691,924. MACHINE FOR MAKING MATTRESSES. ERWIN H. FALK, Davenport, Iowa. Filed Dec. 16, 1927. Serial No. 240,474. 4 Claims. (Cl. 19—78.)



1. In a machine for making mattress fillers, the combination of two hoppers in each of which there is a feeding conveyor for delivering filler stock at a common, given point, the conveyor in one hopper being provided with a shield for preventing access of the material to a portion of the conveyor corresponding in width and location to the stream of material fed by the conveyor in the other hopper.

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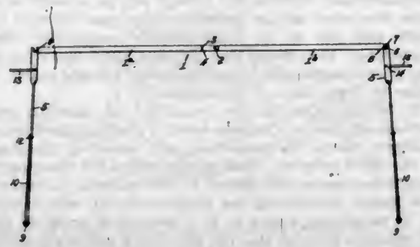
1,691,925. CONTAINER FOR FUSED-BIFOCAL-LENS BLANKS. WILLIAM C. GAMBLE, New York, N. Y., assignor to General Optical Company, Inc., a Corporation of New York. Filed Jan. 27, 1925. Serial No. 5,010. 5 Claims. (Cl. 206—46.)



1. The combination of a shallow, substantially square, open-top box having in its bottom and near one side a circular light-transmitting blank-inspecting hole the diameter of which is approximately half the length of a side of the box, a fused bifocal lens blank fitting snugly in the box and frictionally gripped and held by the four sides thereof, such lens blank having its segment of smaller diameter than and in register with the said hole, and a sliding cover for the box slidable completely thereover in a direction normal to the side of the box near which the said hole is disposed.



1,691,926. FOLDABLE BARRICADE. HERMAN P. GEISER, Lima, Ohio. Filed Apr. 28, 1928. Serial No. 273,476. 6 Claims. (Cl. 256—64.)

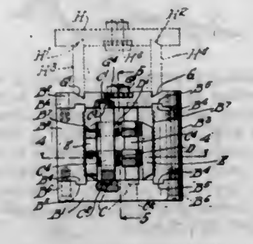


1. In a device of the character described, a cross-bar, supporting legs for the cross-bar foldable along opposite sides thereof, a foot-bar foldably attached to the lower end of each leg in transverse relation to the cross-bar and adapted to be swung into lengthwise relation to the leg, and means for releasably holding the foot-bar in set-up relation to the leg.

6. In a device of the class described, a cross-bar having sections of flat metal pivoted together in lapping relation at their inner ends to permit a folding thereof and having provision for limiting the unfolding movements thereof, a leg pivoted at its inner end to the free end of each of said sections in lapping relation to the outer side thereof and having stop coaction with the section to limit the relative unfolding movements of the leg, said legs adapted to be folded alongside of the respective section in longitudinal relation thereto and being of flat metal with the lower end thereof formed with a quarter turn about the longitudinal axis of the leg and outward from the outer side of the cross-bar section to which attached, a foot-bar pivoted to the outer side of each leg at its lower end transverse to the cross-bar and adapted to be placed in folded relation longitudinally of the leg, a brace-link connected to each leg and its foot-bar to releasably retain them in set-up relation and adapted to be folded therewith into longitudinal relation to each other, and an arm foldably connected to each leg and adapted to support a signal device.

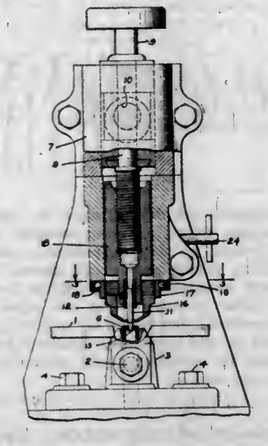
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1,691,927. SHAPER HEAD FOR WOODWORKING MACHINERY. WILLIAM E. GLATT and ERNST HERMANN, Chicago, Ill. Filed Sept. 28, 1925. Serial No. 58,957. 4 Claims. (Cl. 144—231.)



1. A cutting head comprising, in association with a rotary shaft, a plurality of plates spaced along said shaft, spacing members between said plates, cutting members and means for clamping them against said spacing members, including carriers adapted to be moved from side to side of the head, along planes parallel with the opposed faces of said spacing members.

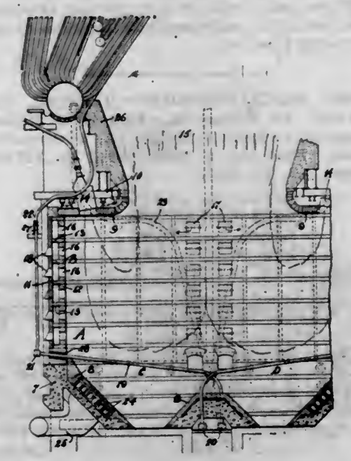
1,691,928. NIBBLING MACHINE. GLEN N. HUTCHINSON, Montclair, N. J., and GUY S. CARDEN, Endicott, N. Y., assignors to International Time Recording Company of New York, Endicott, N. Y., a Corporation of New York. Filed Jan. 6, 1925. Serial No. 780. 7 Claims. (Cl. 164—110.)



1. In a punching machine, a reciprocating punch holder, a work stripper and means for releasably mounting said stripper adjacent to said holder to permit it to be released when engaged by the holder.

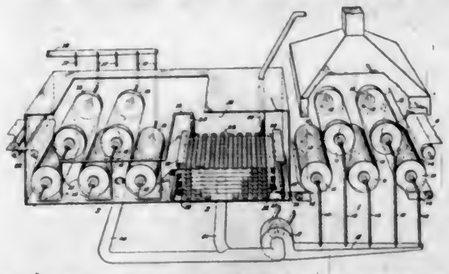
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1,691,929. PULVERIZED-FUEL-BURNING APPARATUS. GEORGE P. JACKSON, Flushing, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 29, 1924. Serial No. 695,969. 2 Claims. (Cl. 110—28.)



1. In combination, a combustion chamber, means for introducing pulverized coal downwardly simultaneously from opposite sides, and said combustion chamber having a bottom in the form of a double hopper the outer wall portion of which is hollow, together with means for admitting a cooling medium into said hollow portion.

1,691,930. METHOD OF PAPER DRYING AND APPARATUS THEREFOR. ALVIN E. MONTGOMERY, Oak Park, Ill. Filed July 21, 1927. Serial No. 207,463. 9 Claims. (Cl. 34—48.)



1. In an apparatus for drying paper, in combination a plurality of drying drums, a drying chamber having surfaces therein heated by high temperature steam, a plurality of finishing drying drums and means for passing steam from said surfaces to said finishing drying drums whereby the latter are heated by the steam which is cooled by said surfaces, and means for subjecting the paper to the influence of said surfaces to generate steam therefrom and means for conducting said generated steam to said initial drying drums.

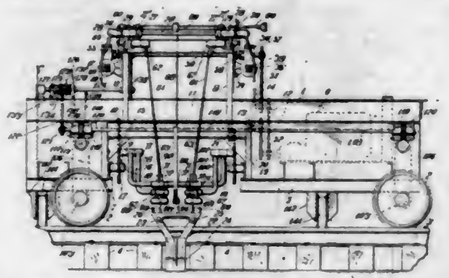
1,691,931. BEARING-METAL ALLOY. KARL MÜLLER and WILHELM SANDER, Essen, Germany. Filed Sept. 30, 1921, Serial No. 504,374, and in Germany Oct. 1, 1920. 6 Claims. (Cl. 75—1.)

1. A bearing metal alloy comprising about 70 to 75 per cent of lead, about 15 to 25 per cent of antimony, about 3 to 6 per cent of tin, about 1 to 3 per cent of a metal of the cobalt type, and about 0.6 to 2 per cent of copper.

1,691,932. BEARING-METAL ALLOY. KARL MÜLLER and WILHELM SANDER, Essen, Germany. Filed Sept. 2, 1922, Serial No. 586,036, and in Germany Sept. 15, 1921. 5 Claims. (Cl. 75—1.)

1. A bearing metal alloy comprising approximately from 70 to 75 per cent of lead, 15 to 25 per cent of antimony, 3 to 6 per cent of tin, and appreciable quantities of cadmium not exceeding 5 per cent.

1,691,933. BALLAST-REMOVING MACHINE. EMMONS OVERMIER, La Grange, Ill., assignor to Maintenance Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1926. Serial No. 127,352. 18 Claims. (Cl. 37—104.)



1. An apparatus for removing material from between the ties of a railway track comprising a supporting frame, digging mechanism mounted in the frame, power means for operating the digging mechanism also carried in the frame, wheels for movably supporting the frame on the track rails, a lifting jack interposed between each wheel and the frame, each jack comprising a vertical guide on the frame, a journal support for the wheel having a post slidable vertically in the guide, a nut in the post, a screw mounted in the frame and threaded in the nut, means comprising a plurality of countershafts and gears for simultaneously rotating the several screws, a shaft driven from the power means, driving connections between this shaft and one of the countershafts comprising clutch mechanism, and means for automatically throwing out the clutch mechanism when the frame reaches either the upper or lower limit of its movement.

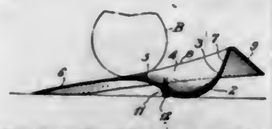
7. In an apparatus for removing the material from between the ties of a railway track, a supporting structure, a digger, means for supporting and operating the digger in the space between pair of ties, means for lowering the supporting means and digger as the material is removed, and means for shifting the digger laterally with relation to its supporting means as it is lowered to bring its path of operation beneath the rail, said latter means comprising a member pivotally supported at its upper end and adapted to swing at its lower end longitudinally of the ties, the lower portion of this member embodying cam slots engaged by portions of the digger and supporting means respectively.

1,691,934. BOILER FURNACE. EDWIN A. PACKARD, Yonkers, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 5, 1925. Serial No. 66,929. 3 Claims. (Cl. 122—235.)



1. In a boiler furnace, water walls defining combustion space and comprising tubes having longitudinal fins of such width that in normal operation of the furnace a portion thereof would burn off and means shading said fins to prevent such burning off.

1,691,935. GOLF CUP. CHARLES J. PATERSON, Cleveland, Ohio. Refiled for abandoned application Serial No. 514,911, filed Nov. 14, 1921. This application filed Apr. 6, 1928. Serial No. 268,086. 17 Claims. (Cl. 273—36.)



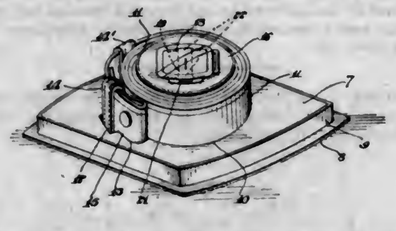
1. An unstable golf putting cup consisting of an integral structure intended to be gravitationally supported in its entirety and fashioned with a spherical cavity fitted to a standard golf ball, said cavity having a spherically surfaced bottom adapted during use always to be in contact with the floor, said cup adapted to be tilted on said bottom and to occupy one of two positions of rest depending upon the differing center of gravity owing to the presence or absence of a golf ball therein.

1,691,936. BELT BOX. HENRY A. PETER, Philadelphia, Pa., assignor to Pioneer Suspender Company, a Corporation of Pennsylvania. Filed July 22, 1927. Serial No. 207,653. 5 Claims. (Cl. 206—44.)

1. A belt box for containing a belt and a buckle in fixed relative positions for display, including a relatively shallow element provided with a flange extending from near

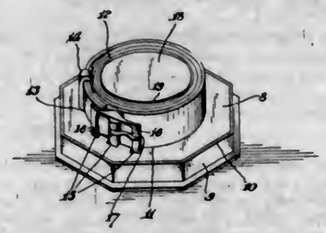


the top margin of its sides to a central circular opening for receiving the lower edge of the coiled belt, said flange having recesses in its margin for receiving the loops of



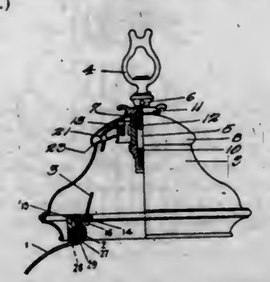
the belt, a central formation positioned within the coil of the belt and extending to near the top thereof, and means for disengageably securing the buckle to the top of said formation.

1,691,937. BELT BOX. HENRY A. PETER, Philadelphia, Pa., assignor to Pioneer Suspender Company, a Corporation of Pennsylvania. Filed July 22, 1927. Serial No. 207,654. 5 Claims. (Cl. 206—44.)



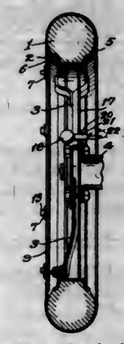
1. A belt box for containing a belt with its buckle attached in fixed position for transportation and display including a relatively shallow container element provided with a flange extending from near the top margin of its sides to a central circular opening for receiving the lower edge of the belt in coiled formation, said flange having recesses in its inner margin for receiving the loop of the belt and the cross-bars of the buckle, and means for maintaining the outer layer of the coil in tight engagement with the inner margin of the flange.

1,691,938. LIGHTING FITTING. EDGAR LANGLEY RANDALL, Muswell Hill, England, assignor to The General Electric Company Limited, London, England, a British Company. Filed July 7, 1926, Serial No. 120,919, and in Great Britain Mar. 31, 1926. 9 Claims. (Cl. 240—146.)



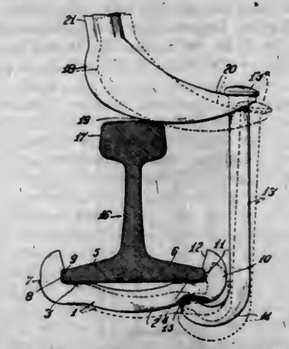
1. A lighting fitting comprising a compact unit including a canopy for covering an opening in the top of an illumination appliance, flexible means, a support for the said appliance connected to the flexible means, and contained within the canopy a member arranged to be rotated by hand in the one or the other direction about the axis of the lighting fitting, and adapted by such rotation to change the flexible means from the extended position to raise the support to the canopy, and to allow the flexible means to extend to lower the support.

1,691,939. DETACHABLE SIGN FOR VEHICLES. ROMAN L. SANCHEZ, Los Angeles, Calif., assignor of one-third to Miriam R. Egbert, Los Angeles, Calif. Filed Aug. 14, 1926. Serial No. 129,194. 1 Claim. (Cl. 40—129.)



The combination with a tire including a cover and supporting arms for the tire; of a circular translucent sign sheet provided around its edge with swivel fasteners and adapted to close the front of the cover orifice; tabs disposed on said cover around the said orifice and being provided with openings adapted to receive said swivel fasteners; a plate closing the rear end of the cover orifice and having its inner face provided with a reflecting surface and a lamp on said plate adapted, when lighted, to diffuse light to the translucent sheet.

1,691,940. APPLYING TOOL FOR RAIL ANCHORS. RICHARD T. SCHOLES, Hinsdale, Ill. Original application filed Jan. 8, 1926, Serial No. 79,999. Divided and this application filed May 24, 1926. Serial No. 111,453. 6 Claims. (Cl. 81—3.)

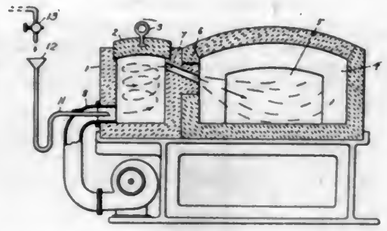


1. A means for applying rail anchors to a rail, comprising a member having an anchor engaging hook at its lower end, and an enlarged head at its upper end, and an operating lever adapted to be fulcrumed on the rail head and having a short forked arm to engage the head of the first member.

1,691,941. OIL FURNACE. VLADIMIR B. SOUNITZA, Pasadena, Calif. Filed July 23, 1927. Serial No. 208,025. 1 Claim. (Cl. 158—4.)

In an oil furnace, the combination, with a combustion chamber, one wall of said combustion chamber being provided with an aperture in its upper portion, said aperture

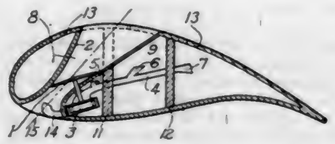
being inclined towards the bottom of said combustion chamber, of a vertical cylindrical chamber adjacent to said combustion chamber, said aperture extending into the upper portion of said chamber, an air pipe introduced into



said cylindrical chamber at the bottom and tangentially to the inner cylindrical walls of said cylindrical chamber, an oil pipe placed within said air pipe, and means to introduce oil into said oil pipe.

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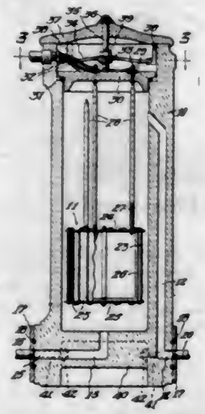
1,691,942. AIRPLANE WING. EDWARD A. STALKER, Ann Arbor, Mich. Filed Sept. 12, 1927. Serial No. 218,906. 6 Claims. (Cl. 244—12.)



1. In combination in a wing possessing one or more compartments, perforations in the wing surface bounding said compartments, a passage connecting the upper and lower surfaces of the wing, an air turbine located in said passage and actuating a means of creating a suction in said compartments.

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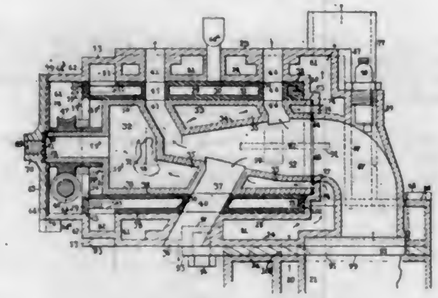
1,691,943. ELECTRICAL WATER HEATER. ERNEST CHARLES STEERE, Sydney, New South Wales, Australia. Filed Mar. 10, 1926, Serial No. 93,550, and in Australia Mar. 19, 1925. 4 Claims. (Cl. 219—39.)



1. An electric water heater comprising a water container formed of electrically insulating material, an extended water outlet passage formed in and of the material of the container, an inner lid in the container, a removable cover plate for the container, a plate mounted on the cover plate, arms on the plate, bayonet slots in the container wall to receive the ends of the arms, a locking bolt carried by the cover plate and threaded through the armed plate, and a removable heating element suspended from said inner lid.

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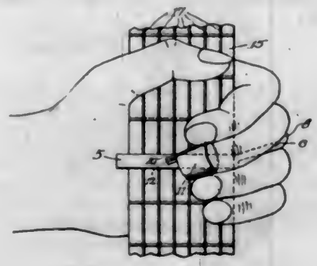
1,691,944. GAS ENGINE. BURNHAM C. STICKNEY, Portsmouth, N. H. Filed Sept. 11, 1925. Serial No. 55,698. 33 Claims. (Cl. 123—80.)



1. The combination with an engine cylinder, of an engine head, a water-enclosed chest in said head, a pressure-balanced rotary barrel valve in said chest, a seat within said valve, the axis of said valve being crosswise of the axis of said engine cylinder, said seat having inner and outer shells forming a water compartment and ported on its opposite sides through both shells, and a conduit through which gas flows past one end of the valve between said inner shell and the engine cylinder, means being provided to cause circulation of water around said chest and through the water compartment in said seat and out from one end of the latter.

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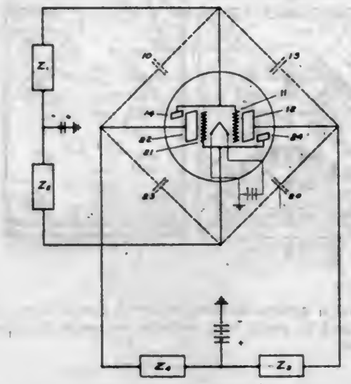
1,691,945. FINGERING STEEL FOR GUITARS AND SIMILAR STRINGED INSTRUMENTS. JULIUS TIMM, Chicago, Ill. Filed Feb. 7, 1927. Serial No. 166,353. 7 Claims. (Cl. 84—319.)



1. In a device of the class described, the combination of a relatively long and narrow body portion, a wing extending from one end of said body portion, and a finger grip mounted on the top of said body portion.



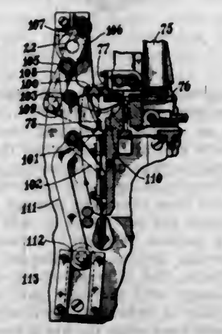
1,691,946. AUDION. JACK R. TOLMIE and TYNG M. LIBBY, Seattle, Wash. Filed Feb. 11, 1926. Serial No. 87,504. 1 Claim. (Cl. 250—27.5.)



An audion comprising an enveloping casing, a filament, two grids, two plates, and two wings contained therein, said plates and wings being arranged in pairs, one of said grids being connected within the envelope with a remote wing, and the other grid being similarly connected with the other remote wing.

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1,691,947. FEEDING MECHANISM. JOHN VAN BUREN, Brooklyn, N. Y. Filed Sept. 23, 1926. Serial No. 137,190. 8 Claims. (Cl. 198—224.)

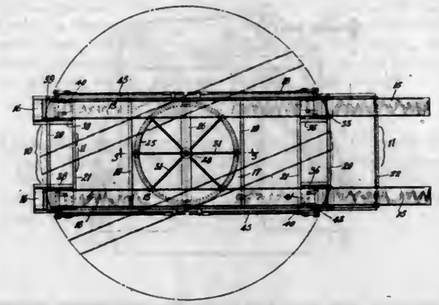


1. In a mechanical movement, a rotatable driving member, a driven member, driving connections between said members and means for guiding the driven member in a manner whereby the rotational movement of the driving member will impart to the driven member a substantially straight line movement in one direction and a backing off and curved movement in the opposite direction.

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1,691,948. TURNTABLE. WILLIAM MAYO VENABLE, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 21, 1927. Serial No. 193,121. 8 Claims. (Cl. 104—44.)

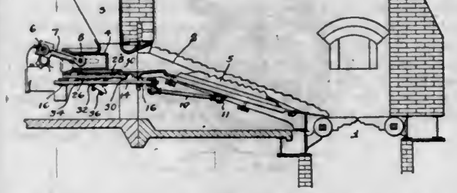
1. A roadway turntable comprising a base structure with ramps adapted to rest directly on the ground, a table structure rotatably mounted thereon, four ground wheels for said base structure swingable up and down relative



thereto, into and out of ground-engaging position, and hand lever mechanism for shifting said ground wheels as aforesaid.

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1,691,949. UNDERFEED STOKER. SIGURD J. A. WIEBE, East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 3, 1925. Serial No. 12,814. 2 Claims. (Cl. 110—44.)



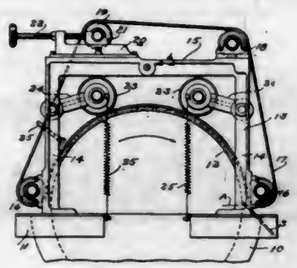
1. An underfeed stoker having, in combination, a fuel hopper, a reciprocable primary pusher for feeding fuel into the furnace from said hopper, a reciprocable secondary pusher for feeding the fuel within the furnace in a direction away from said hopper, a reciprocable member, suitable connections between said secondary pusher and said reciprocable member for operating the secondary pusher, and a lost motion conenction between the primary pusher and said reciprocable member for actuating the latter, comprising a sliding carrier mounted to move with the primary pusher, co-operating abutments on the carrier and reciprocating member for moving the latter in one direction during the movement of the primary pusher in the same direction, the abutment on the carrier being pivotally mounted and provided with a plurality of abutment faces spaced different distances from the axis of the pivoted abutment and arranged to permit any one of them to be presented to the abutment on the reciprocating member upon turning the pivoted abutment, and means comprising a controllable member and suitable connections mounted on said carrier for thus turning said pivoted abutment and holding it in the position to which it is moved.

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1,691,950. FILTRATION APPARATUS. ARTHUR WRIGHT, Upper Montclair, and FRANK W. YOUNG, Verona, N. J. Filed Sept. 10, 1921. Serial No. 499,753. 27 Claims. (Cl. 210—199.)

1. The process of treating a filter cake formed on the filtering medium of a rotary drum filter which comprises overlaying the cake on the filtering medium with a com-

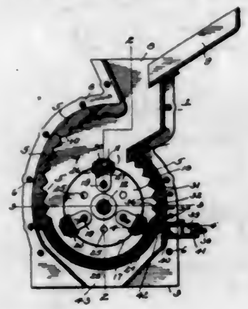
pression member and thereby compressing the cake, moving the compression member with the cake by its contact



therewith, and then separating the compression member and filtering medium and stripping the cake from the filtering medium.

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1,691,951. PULVERIZER. THEODORE C. ALFRED, Lancaster, Ohio. Filed Dec. 12, 1925. Serial No. 75,125. 3 Claims. (Cl. 83—11.)

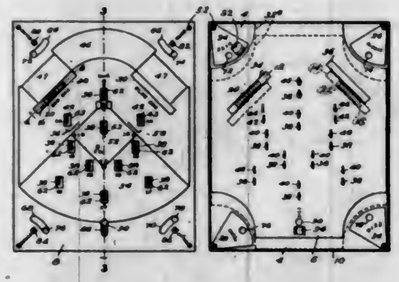


1. In a pulverizer, a housing including a pulverizing chamber, a reducing rotor mounted for rotation about a fixed axis disposed within said chamber, an outlet screen for said chamber consisting of a plurality of spaced transversely extending parallel bars having the ends thereof positioned within recesses provided in the side walls of said housing, a wedge member slidably mounted in connection with said housing, means permitting of the adjustment of said wedge member so as to place said bars under compression, and a removable door carried by said housing above said wedge member and mounted in said housing independently of said wedge member.

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1,691,952. BASEBALL GAME. SIGURD ANDERSON, Leavenworth, Kans. Filed Nov. 14, 1927. Serial No. 233,104. 6 Claims. (Cl. 273—93.)

1. In a game of the character described, a top member having a representation of a baseball field with openings for displaying baseball teams in their respective playing positions, numeral display openings near its corners and arcuate slots near said numeral display openings; a longitudinally slidable intermediate member underlying said top member and having representations of two opposing baseball teams so arranged that when said intermediate member is moved in one direction one of said teams will appear at the openings in the baseball field and when moved in a reverse direction the opposing team will appear at the last-mentioned openings, said intermediate member being cut out at its corners; elements underlying said top member and arranged at said cut out corners of the intermediate members, said elements bearing numerals for exposure at the numeral display openings and provided with finger holes registering with the respective arcuate



slots; and a bottom member underlying said intermediate member and to which said movable elements are pivotally connected.

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1,691,953. DECOMPRESSOR VALVE. ROMEO BACCI and GUIDO VACCA, Trieste, Italy. Filed Dec. 24, 1925, Serial No. 77,637, and in Italy Jan. 2, 1925. 3 Claims. (Cl. 123—182.)



1. A decompressor valve for internal combustion engine cylinders, comprising a cylindrical casing adapted to be secured to an engine cylinder and having an axial passage and a valve seat at the inner end thereof; an operating head having a threaded connection with said casing to enable its rotary and endwise adjustment with respect thereto; a valve stem extending through said passage and projecting beyond the outer face of said head and having its projecting portion threaded; a clamping nut fitted on said projecting portion and adapted to be tightened against said outer face to secure the stem rigidly to said head for movement with the same, said stem being adapted to move axially in either direction independently of and relatively to said head when the nut is turned on the stem; a valve body at the inner end of said stem for coaction with the valve seat to control communication between the interior of the cylinder and said passage; and a branch passage leading to the outside from the first-named passage to permit the gases within the cylinder to escape when the valve body is open.

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1,691,954. PRODUCTION OF ERYTHRITOL TETRANITRATE. FRANK H. BERGEIM, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 184,180. 5 Claims. (Cl. 260—145.)

1. A process for the nitration of erythritol which comprises dissolving the alcohol in sulphuric acid, and adding the solution thus prepared to nitric acid.

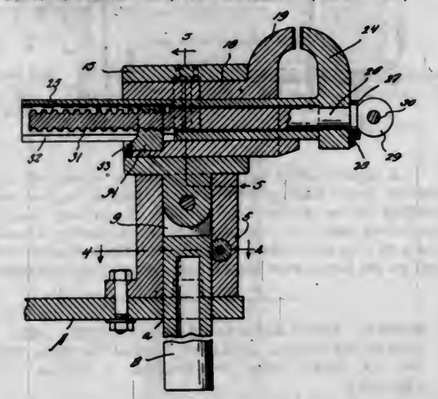


1,691,955. EXPLOSIVE. FRANK H. BERGEIM, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 184,181. 4 Claims. (Cl. 260—144.)

1. An explosive compound comprising a branched chain hydrocarbon to which is attached a nitro group and two nitrate groups.

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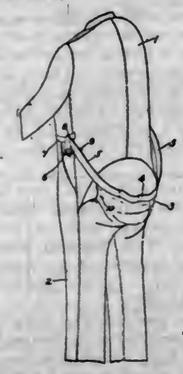
1,691,956. VISE AND MOUNT THEREFOR. ZEPHIR A. BLANCHARD, Montreal, Quebec, Canada. Filed May 19, 1927. Serial No. 192,690. 3 Claims. (Cl. 81—41.)



1. In combination with a vise including a stationary and a movable jaw, said stationary jaw being formed with a bushing and arranged within a bushing holder, said bushing holder being provided intermediate its ends with a lateral tongue, a hollow base member, a post movable freely within the base, a pivotal connection between one end of the post and the tongue of said bushing holder, said connection permitting the engagement of the tongue within the holder, said hollow base member being formed with a tangential opening communicating with the bore thereof, a member movable within said opening for engagement with the post for fixing or securing the same at a predetermined position within the base, and a threaded member projecting through said member and threadable into the base for moving said member into engagement with the post.

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1,691,957. GARMENT. RUSSELL R. BLANSHAN, Buffalo, N. Y. Filed Sept. 9, 1926. Serial No. 134,457. 5 Claims. (Cl. 2—79.)



5. A garment having a drop seat, straps extending from said seat, adjacent its free end, forwardly and overlapping one another across the front of the garment, and guide straps extending beneath the seat straps from the sides of the garment forwardly and across the front of the garment into proximity to the center of the front, the ends of the guide straps being secured to the garment and free of the garment intermediate their ends, each guide strap having a sliding loop connection to the adjacent overlying seat strap, said garment and drop seat also having portions cooperating when the seat is drawn up for preventing sagging of the seat adjacent the sides thereof.

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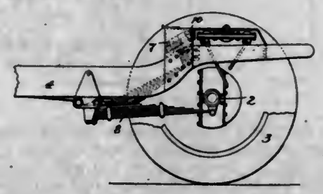
1,691,958. SHIRT-SLEEVE SUPPORTER. EVELYN DAVANT BOSTICK, Columbia, S. C., assignor of fifty-one per cent to Elizabeth Hamilton Bostick and one per cent to Charles Lemuel Prince. Filed Nov. 17, 1924. Serial No. 750,354. 1 Claim. (Cl. 2—123.)



A shirt sleeve having a double cuff, a tab secured adjacent one edge of said cuff within the fold thereof having its free end provided with a buttonhole, a button secured to said cuff adapted to be engaged by said buttonhole for holding said tab in inoperative position and an additional button secured to the other edge of said cuff adapted to be engaged by said tab when said sleeve is raised to hold said cuff in position above the elbow.

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1,691,959. VEHICLE SUSPENSION. STEPHEN LEONARD CHAUNCEY COLEMAN, Fredericton, New Brunswick, Canada. Filed June 23, 1922. Serial No. 570,457. 14 Claims. (Cl. 280—112.)



1. In a vehicle, the combination with running gear, and a vehicle frame yieldably supported in relation thereto, of stabilizer mechanism including an equalizer device connected with the vehicle frame, and strut rod connections between the equalizer device and the running gear, each strut rod comprising a rigid rod portion and a resilient portion at one end thereof.

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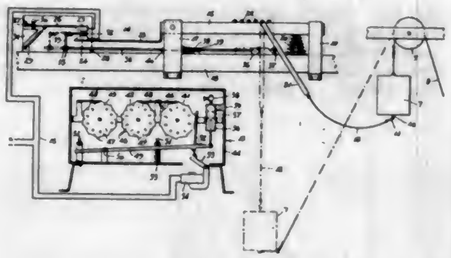
1,691,960. MANUFACTURE OF ALKALINE CYANIDES. SYLVAIN COULIER, Brussels, Belgium. Filed Feb. 18, 1926, Serial No. 89,234, and in Belgium Feb. 24, 1925. 6 Claims. (Cl. 23—80.)

1. In a process of making alkali metal cyanides, the steps of distilling nitrogenous organic matter; separating the relatively non-volatile, non-nitrogenous substances from the rest of the distillate; and causing the elemental nitrogen

liberated in the course of distillation to act, at a temperature between 800–1000° C., upon the residue of distillation to effect cyanidation; the distillation step being carried out at a temperature considerably below that of the cyaniding step.

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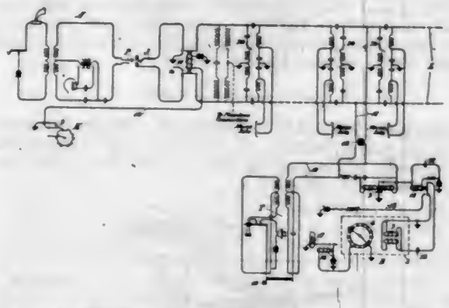
1,691,961. REGISTER MECHANISM. WILLIAM W. CROW, Treece, Kans. Filed Aug. 26, 1927. Serial No. 215,665. 12 Claims. (Cl. 235—92.)



1. The combination with a hoist bucket and hoisting means therefor of means attachable to the lower portion of the bucket for suspending it in inverted position, a register, and controlling means for said register operated by said suspending means.

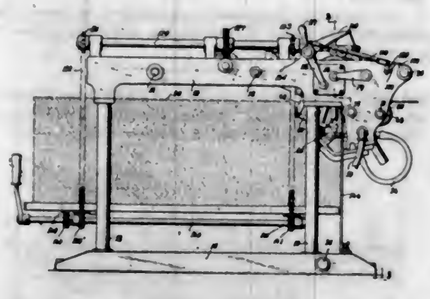
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1,691,962. SELECTIVE SIGNALING SYSTEM. CHARLES S. DEMAREST, Ridgewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 25, 1923. Serial No. 641,473. 3 Claims. (Cl. 179—2.)



1. In a selectively controlled signal system comprising a central station and a plurality of way stations, a line circuit connecting the central station and way stations, phantom circuits and Morse circuits associated with the line circuit at the central station and way stations, telephone sets at the central station and way stations, a source of alternating current at the central station, a source of direct current at the way stations, switching means including a selector key and a relay serially associated therewith for controlling the application of alternating current to the line circuit, said relay also controlling the connection over the line circuit between the telephone sets at the central station and way stations, an alternating current relay at the way stations responsive to the application of alternating current to the line circuit, a direct current relay controlled by said alternating current relay, said direct current relay having a condenser bridged across its winding to maintain it operated during the vibration of the armature of said alternating current relay, and selectively operated devices at the way stations actuated by the direct current relay, said selectively operated devices being unaffected by the transmission of Morse signals over the line circuit.

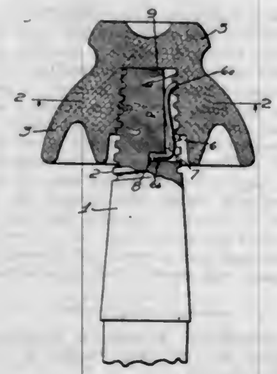
1,691,963. PAPER-FEEDING MACHINE. TALBOT C. DEXTER, Pearl River, N. Y. Filed June 27, 1925. Serial No. 39,901. 19 Claims. (Cl. 271—28.)



1. A paper feeding device comprising a rotary roll with suction paper-holding perforations therein, suction controlling means within said cylinder comprising coacting stationary and rotary elements with ports therein cooperating with each other and with the perforations in said rotary roll as the latter pass the port in said stationary element.

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1,691,964. INSULATOR-LOCKING DEVICE. RAY S. DICKEY and PAUL A. CARNAHAN, Manhattan, Kans. Filed Oct. 15, 1927. Serial No. 226,364. 3 Claims. (Cl. 151—23.)



1. The combination with an insulator supporting pin having a slot and a bore communicating therewith, of an insulator having threads, a locking key having an end arranged to enter said bore, the opposite end being arranged to enter one of the threads of the insulator, a portion of said key between the ends serving as a fulcrum, and a portion of the key being arranged to be engaged by the threads of the insulator to rock the key on its fulcrum.

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1,691,965. PROCESS FOR THE PRODUCTION OF CITRIC ACID. AUGUSTE FERNBACH, Paris, France, and JOHN LEWIS YUILL, York, England, assignors to Rowntree and Company Limited, of the Cocoa Works, York, England. Filed Nov. 3, 1925. Serial No. 66,665. 5 Claims. (Cl. 260—120.)

1. Process for the production of citric acid from solutions of cane sugar containing the necessary nutrient materials by means of fungi, which comprises adding to the solution hydrochloric acid in quantity sufficient to raise the hydrogen ion concentration to a point lying within the range pH=1.2 to pH=2.5, whereby sterilization of the solution by means of heat is rendered unnecessary.

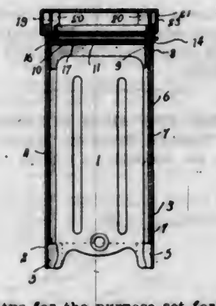


1,691,966. PROCESS FOR THE PRODUCTION OF CITRIC ACID. AUGUSTE FERNBACH, Paris, France, and JOHN LEWIS YUILL, York, England, assignors to Rowntree and Company Limited, of the Cocoa Works, York, England. Filed Nov. 3, 1925. Serial No. 66,666. 9 Claims. (Cl. 260—120.)

1. Process for the production of citric acid from solutions of sugars and like substances containing the necessary nutrient materials by means of fungi, which comprises adding to the solution strong acid in quantity sufficient to raise the hydrogen ion concentration to a point lying within the range pH=1.2 to pH=2.5 whereby the solution is sterilized in absence of heating.

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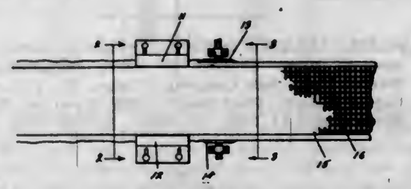
1,691,967. HUMIDIFIER. WILLIAM K. GAMMETER, Cadiz, Ohio. Filed Dec. 27, 1927. Serial No. 242,911. 6 Claims. (Cl. 237—79.)



1. An apparatus for the purpose set forth comprising a housing adapted to enclose a radiator, a dust arrester slidably mounted in the housing near the top thereof and removable through the front of the same, and a water pan supported in the housing immediately over the dust arrester.

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1,691,968. BELTING. EDWARD F. GINGRAS, Buffalo, N. Y. Filed Aug. 13, 1924. Serial No. 731,771. 1 Claim. (Cl. 154—4.)

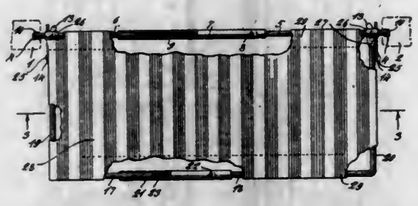


The process of making a belting comprising a fabric backing and a leather facing consisting in uniting the backing and facing by a gum solution with the edges of the facing projecting beyond the edges of the backing, guiding the belting by contact with the side edges of the backing trimming the edges of the facing a pre-determined distance beyond the edges of the backing and stiffening the projecting edges of said facing.

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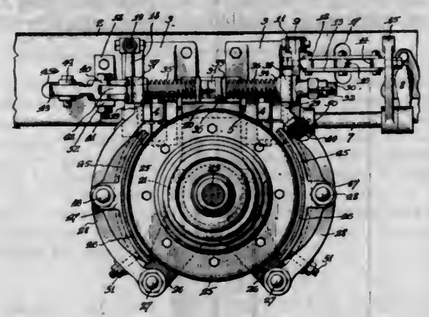
1,691,969. ADJUSTABLE AUTOMOBILE AWNING. WILLIAM M. GLOVER, Denver, Colo., assignor, by mesne assignments, to Sunbar Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed May 9, 1927. Serial No. 189,824. 12 Claims. (Cl. 156—15.)

1. An awning adapted to fit within a window opening provided with grooves at its sides to slidably mount a glass closure for the window opening, said awning comprising, in combination, a frame having one of its sides formed from two bars telescopically connected by means of a tubular member, a spring interposed between the ends of said members, said members having their outer ends bent to form downwardly extending fingers adapted to fit into the grooves and frictionally grip the side walls of the window opening to removably retain the awning in place, an elongated U-shaped frame hingedly seurced to the two part side member so that it may be rotated about the axis of said side member and adjustable means for holding the frame in any desired position.



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1,691,970. PROPELLER-SHAFT-BRAKE MECHANISM. JOHN C. HAGGART, Jr., Alma, Mich., assignor, by mesne assignments, to Detroit Patents Holding Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 26, 1923. Serial No. 664,879. 1 Claim. (Cl. 188—18.)



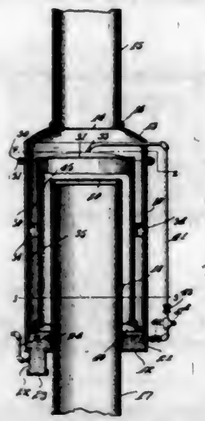
In a brake mechanism, the combination with a propeller shaft, a brake drum rotatable with said shaft, of brackets adjacent said brake drum, a tubular support in said brackets, an operating rock shaft passing through said support, a hanger on said tubular support extending into said brake drum and assisting in supporting said propeller shaft, said hanger having a portion thereof extending out of said brake drum and thereunder, shoe supports attached to that portion of said hanger under said brake drum, shoes pivotally connected to said supports and engageable with said brake drum, and means supported from said hanger above said brake drum for adjusting said shoe supports.

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1,691,971. AIR AND GAS CLEANER. CHARLES S. HANSARD and ARCHIE E. NETZEL, Avant, Okla. Filed Oct. 10, 1927. Serial No. 225,282. 5 Claims. (Cl. 183—30.)

3. A cleaner for fluids comprising an outer shell, an inner shell spaced from and located within the outer shell, the inner shell having a closed top, and an open lower end spaced from the bottom of the outer shell, the lower end of the inner shell being flared outwardly thereby providing a restricted communication between the lower end of the inner shell and outer shell, an inlet pipe connected with the upper end of the outer shell, a discharge pipe projecting into the inner shell, means for spraying a liquid on the top

of the inner shell, the outer shell having a well at the lower end to store the liquid in spaced relation with the flared end of the inner shell, the inner shell being extended



above the periphery of the closed top and provided with slots for breaking up the liquid as said liquid leaves the top of the inner shell.

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1,691,972. FISHING-TOOL GUIDE. RICHARD D. HILL and WALTER W. FOSTER, Wichita Falls, Tex. Filed Jan. 31, 1927. Serial No. 164,914. 1 Claim. (Cl. 294—102.)

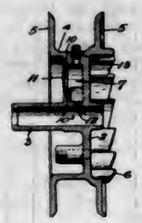


An article of the character described for association with a fishing tool, comprising a cylindrical body arranged for mounting upon the lower end of said fishing tool and having its lower end slotted to define a pair of opposed parallel prongs, one of which is of greater length and width than the other, the shorter of said prongs being spear-shaped whereby to engage within an object and bring the latter against the longest of said prongs preparatory to raising said fishing tool to enable said object to enter the latter between said prongs for engagement by said fishing tool.

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1,691,973. TROLLEY MECHANISM. JOSEPH HOLLIS, Canton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Jan. 11, 1923. Serial No. 611,928. 4 Claims. (Cl. 308—109.)

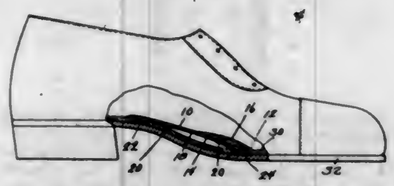
1. In mechanism of the class described, the combination of a drum comprising a web, a hub and a rim on which a rope may be wound, a lubricant holding chamber disposed on one side of said web and connected with a supply duct formed in said rim and a discharge duct formed in said hub through which the lubricant flows, the front wall of said chamber being formed with an opening which is rabbeted,



and a concavo-convex disk fitting said opening and adapted to be pressed into substantially flat condition to make the joint between its circumferential edge and the wall of said opening liquid-tight.

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1,691,974. SHOE AND ARCH SUPPORT THEREFOR. WILLIAM M. HURLEY, Brockton, Mass. Filed Dec. 15, 1926. Serial No. 155,035. 8 Claims. (Cl. 36—71.)



4. A shoe having an arch support including a relatively long and narrow pad overlying the shank portion of the inner sole of the shoe along the longitudinal axis thereof and having means at its ends detachably connecting it with the inner sole.

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1,691,975. LOCKING DEVICE. JUSTICE C. IRWIN, Minneapolis, Minn., assignor, by mesne assignments, to Stanton Home Safe Company, Chicago, Ill., a Corporation of Illinois. Filed June 1, 1925, Serial No. 34,044. Renewed May 14, 1928. 4 Claims. (Cl. 70—14.)



1. A locking device for a container cover comprising a locking member adapted to be mounted upon the cover for relative movement thereon, said member having a plurality of flexible arms adapted to be moved into locking engagement with the container walls, means for moving said arms and each arm having an inclined face cooperating with means on said cover whereby, when the locking member is relatively rotated by said means, said arms will yield radially and become disengaged from said container walls.



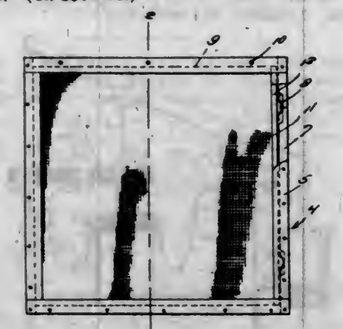
1,691,976. LADDER. SAMUEL KRAMER, Newark, N. J. Filed Aug. 3, 1926. Serial No. 126,778. 2 Claims. (Cl. 228—55.)



1. A ladder comprising a pair of metal tubes of rectangular cross section, said tubes having a plurality of equally spaced transverse openings in their adjacent sides, integral supports inclined outwardly from said tubes below the openings, a plurality of metal treads, and tenons on the ends of said treads to engage said supports through the openings.

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1,691,977. WINDOW SCREEN. LOUIS LEVI, Winthrop, Mass. Filed Mar. 10, 1928. Serial No. 260,648. 1 Claim. (Cl. 156—14.)

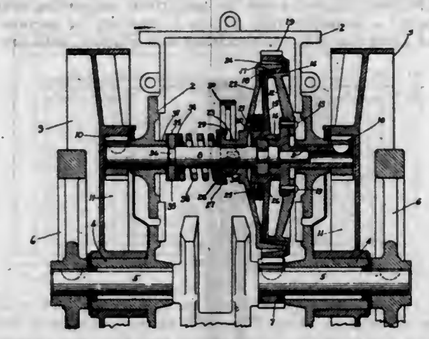


A window screen comprising an outer frame embodying frame bars, at least one of which is composed of spaced parallel parts, and a filler strip arranged removably therebetween, said side bars being of channel shaped cross section, an inner frame slidably received in the channels and held in place by said filler strip, and screen fabric carried by said inner frame, said outer frame being constructed of wood and said inner frame being constructed of metal, said outer frame having one of its side bars provided with resilient retaining clips extending into the adjacent channel and engaging the adjacent side bar of the metallic inner frame.

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1,691,978. CLUTCH. ARTHUR JOHN LIEDTKE, West Allis, and CHARLES JACOB TRAVERS, Port Washington, Wis., assignors to Beeman Tractor Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Aug. 30, 1920. Serial No. 407,050. 14 Claims. (Cl. 180—19.)

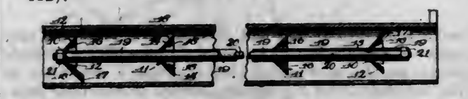
1. A non-reversing traction machine comprising a frame, a crank shaft, traction wheels for said frame, a gear having a driving connection with said crank shaft and provided with opposing friction surfaces, clutch members having independent driving connections with said traction wheels and mounted to engage said friction surfaces respectively for driving said wheels from said gear, a spring mounted on one side of said clutch members to normally hold them in their clutching position, and mechanism for relieving the pressure of said spring on said clutch members and



transferring the pressure to said frame, whereby said clutch members may be moved freely and said traction wheels revolved forward or backward.

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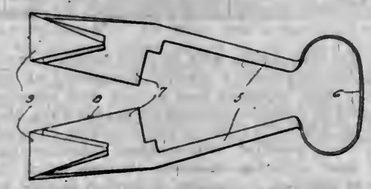
1,691,979. BAFFLE PLATE FOR BOILER FLUES. FRANK J. LOCHEN, Chicago, Ill., assignor to Ideal Oil Saver Company, a Corporation of Illinois. Filed Apr. 16, 1926. Serial No. 102,377. 5 Claims. (Cl. 137—112).



1. In combination, a plurality of baffles, each of said baffles being of a substantially cone shape, a spacing member disposed between adjacent baffles, and a rod passing through the baffles and spacing member for securing them together as a unitary structure, the baffles being provided with a plurality of extended and substantially V-shaped notches, said notches opening through the body of the baffles, said baffles forming with the flue gradually reduced passages for the gases and constituting the sole means of support for the baffles within the flue.

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1,691,980. SHEARS FOR CUTTING JAR RINGS AND SIMILAR CIRCULAR WASHERS. HERVE A. LONSWAY, Berwick, Ohio. Filed July 25, 1927. Serial No. 208,384. 1 Claim. (Cl. 164—80.)



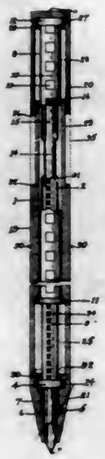
In a tool of the class described, a plurality of cutting blades arranged in pairs in opposed relation, the outer end of each pair of blades being curved in a semi-circular formation and retained in spaced parallel relation with each other, said blades co-acting with each other whereby to cut a circular washer from a sheet of material when arranged in folded position at one cutting operation.

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1,691,981. MAGAZINE LEAD PENCIL. FRANK E. MAYOL, Franconia, N. H. Filed Sept. 19, 1927. Serial No. 220,292. 1 Claim. (Cl. 120—17.)

A magazine pencil comprising, in combination, a tubular plunger having an open forward end for the insertion of a writing lead, and parallel rear-extending flexible shanks,

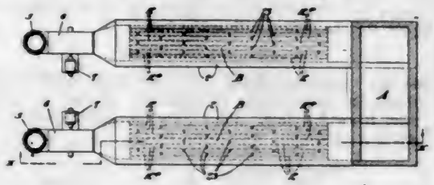
said shanks terminating in oppositely directed detents; a barrel having a multiplicity of perforations along one side for engaging said plunger, and along its opposite longitudinal segment a slot for operatively supporting said plunger; a propeller tube having a plurality of perforations along one side for actuating said plunger, said pro-



peller tube surrounding and sliding operatively over said barrel and said plunger; an outer casing having a slidable breech section, said breech section having a breechway in the end thereof for the inward passage of a writing lead; and means for fastening said propeller tube and said barrel to, and within, said outer casing, all substantially as set forth.

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1,691,982. OPEN-HEARTH FURNACE. FRANK R. McGEE, Steubenville, Ohio. Filed Aug. 9, 1926. Serial No. 128,252. 6 Claims. (Cl. 263—19.)



1. The combination with an open hearth furnace, of at least one regenerative chamber comprising an enclosing shell, a dust collecting base in said shell composed of a plurality of transversely arranged spaced walls, the spaces between said walls forming dust collecting chambers, said shell being provided with openings communicating with said dust collecting chambers through which the dust may be removed, a plurality of vertical checker walls extending longitudinally of said shell above said first named walls and spaced one from the other to form longitudinally extending gas channels, said last named walls being provided with relatively widely spaced small openings forming communicating gas passageways between said channels adapted to equalize the pressure and flow in all of said channels.

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1,691,983. ROTARY CUTTER. FRANK P. MILLER, Meadville, Pa. Filed July 30, 1926. Serial No. 125,954. 4 Claims. (Cl. 29—105.)

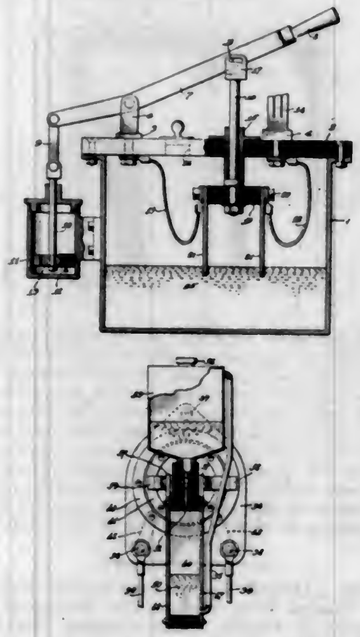
1. A rotary cutter comprising a body having a slot, a blade in said slot and having side walls converging toward the outer edge of the blade, a wedge member tapered toward the inner edge thereof and having means engaging said blade, one side of said wedge member being provided with a longitudinal groove, a pin partially received in said



groove, and securing devices for forcing said pin laterally and inwardly into binding engagement with said wedge member.

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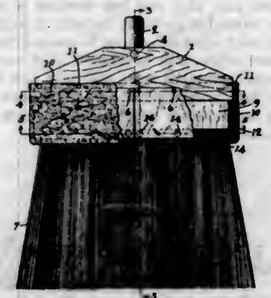
1,691,984. ELECTRIC SWITCH. JOHN M. MILLER, Detroit, Mich., assignor of one-half to Frances C. Richardson, Detroit, Mich. Filed Aug. 19, 1925. Serial No. 51,103. 2 Claims. (Cl. 201—57.)



1. A rheostat comprising a liquid receiving receptacle adapted to contain a liquid, electrodes exposed to the liquid in said receptacle, a liquid discharge receptacle communicating with and adapted to place liquid in said receiving receptacle to establish an electrical connection between said electrodes, said receptacles being in superposed relation and mounted to permit inversion, whereby liquid may flow from one receptacle to the other.



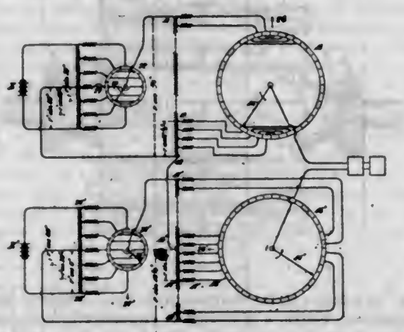
1,691,985. BROOM. MILO C. NEWTON and JOSEPH A. GREMLING, Delphos, Ohio, assignors to The E. & N. Manufacturing Company, Delphos, Ohio, a Corporation of Ohio. Filed Oct. 22, 1927. Serial No. 227,928. 7 Claims. (Cl. 15—171.)



1. A broom comprising a supporting block having a handle extending from the upper portion thereof and a brush receiving socket, a brush composed of a body of bristles bound together at their upper ends only, the bound portion being in the form of a solid mass of a shape corresponding to that of the socket and of less depth than the socket, a cushioning band of relatively thick pliable fabric interposed between said body of bristles and the wall of said socket, and means for securing said brush and band within the socket with the fabric extending in the socket below said bound portion of the brush to yieldingly restrain lateral movements of the bristles and prevent formation of sharp bends in the bristles.

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1,691,986. APPARATUS AND METHOD FOR GENERATING PURE SINE WAVES OF ELECTROMOTIVE FORCE. HARRY NYQUIST, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 30, 1922. Serial No. 548,156. 7 Claims. (Cl. 175—364.)

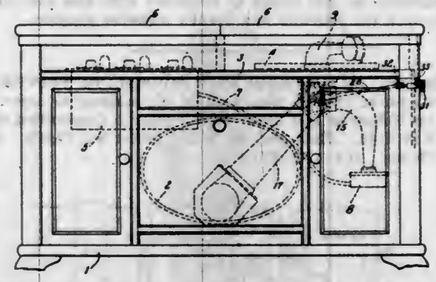


2. Apparatus for producing a pure sine wave electromotive force of low frequency comprising a potentiometer, a battery connected thereto, a circuit changing switch between them, a series of taps on the potentiometer, a distributor to make connection thereto in succession, means to operate said switch at the initial point of each distributor cycle, and means to separate higher harmonics from the distributor output.

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1,691,987. COMBINED PHONOGRAPH AND RADIO APPARATUS. MARTIN NYSTROM, Chicago, Ill., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 23, 1924. Serial No. 745,499. 9 Claims. (Cl. 179—100.1.)

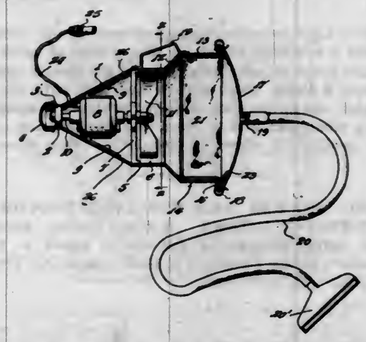
1. In combination, a phonograph, a loud speaker, an amplifying horn, passageways from said horn to said phonograph and to said loud speaker, a rotary valve transversely disposed in and controlling both of said passageways, whereby sounds may be directed to said horn from



either said phonograph or said loud speaker, a pinion on said valve, an operating rod, and a pinion on said rod and meshing with said first named pinion to rotate said valve.

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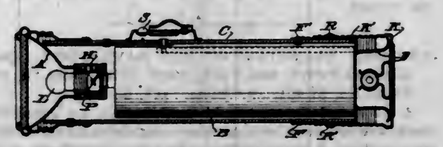
1,691,988. VACUUM CLEANER. VICTOR L. OLSON, Leigh, Nebr. Filed June 8, 1927. Serial No. 197,383. 1 Claim. (Cl. 183—36.)



A vacuum cleaner of the class described comprising a conical casing, a bearing mounted in the minor end of the casing, brackets carried by the casing, a motor supported by the brackets, an annular flange carried by the casing and having a cross bar therein, said annular flange defining a chamber, the motor shaft having one end journaled in the bearing and its other end journaled in the cross bar, a fan fixed to the shaft and rotatable in the chamber, a housing supported by the flange and in communication with the chamber, a flange carried by the outer end of the housing, a fabric sack located in the housing and having a ring carried thereby, a cover for the housing, resilient arms carried by the cover for yieldably engaging the ring for maintaining the sack within the housing when the cover is secured in closed position upon the housing.

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1,691,989. FLASH LIGHT. CHARLES OSEAN, Woodcliff, N. J., assignor to National Carbon Company, Inc., a Corporation of New York. Filed Feb. 2, 1923. Serial No. 616,566. 4 Claims. (Cl. 240—10.5.)

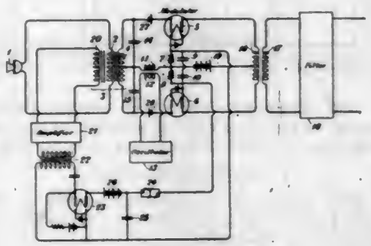


1. A flashlight comprising the combination of a lamp; a reflector; a battery in circuit with said lamp; a casing for said lamp, reflector and battery; an end cap adjust-

ably coupled to said casing and carrying means engaging said battery to adjust the latter and said lamp to vary the beam of the light therefrom, and a threaded ring adjustable on said casing to cooperate with said end cap and lock the latter in any desired adjusted position.

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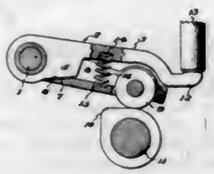
1,691,990. HIGH-FREQUENCY SIGNALING SYSTEM. RALPH K. POTTER, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 23, 1925. Serial No. 77,305. 6 Claims. (Cl. 179—171.)



1. In a high frequency signaling system, the combination with a balanced modulator of a source of carrier oscillations, the said modulator being of the carrier suppression type, a signal input circuit connected with the said modulator, and means controlled by the signal to unbalance the said modulator and to effect the transmission of the carrier oscillations whenever modulation takes place.

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1,691,991. ROCKER ARM FOR INTERNAL-COMBUSTION-ENGINE VALVES. WILLIAM HENRY PUCKETT, Tulsa, Okla., assignor of one-half to David A. Kline, Muskogee, Okla. Filed May 6, 1927. Serial No. 189,360. 1 Claim. (Cl. 123—90.)

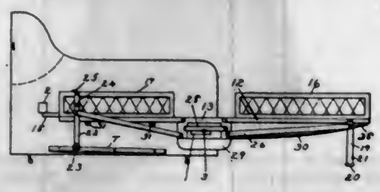


The combination with the cam shaft and valve stem tappet of an internal combustion engine, of a pair of upper and lower arms having a common pivotal connection for one of their ends, the lower arm having side flanges, and a beveled face, the upper arm having a web provided with a beveled face, said web being movable between the flanges, a shoe upon the upper arm for engagement with the tappet, a spring between the arms for holding the respective beveled faces apart, a roller mounted between the side flanges for engagement with the cam of the shaft for forcing the beveled faces into contact against the opposition of the spring for imparting movement to the shoe for operating the tappet.

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1,691,992. OVERSTUFFED BED DAVENPORT. OSCAR EARNEST PUTTY, San Pedro, Calif. Filed June 16, 1925. Serial No. 37,451. 7 Claims. (Cl. 5—12.)

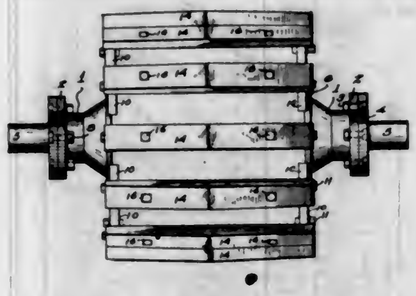
1. In a bed davenport, in combination, an upholstered back member, said back member comprising an upholstered top portion, a plain portion extending therefrom, a pair of upholstered arms extending from said back portion, a pair of stop elements positioned on said plain portion, a pair of tracks positioned on said arms, a combined locking and supporting bracket also positioned on each of said arms, and a combined extensible and collapsible seat and bed member associated with said back member, said combined seat and bed member being equipped with stop bars coacting with said stop elements, sets of collapsible legs associated with said seat and bed member to support the same when in extended position, certain of said legs being coacting with said tracks to assist in supporting said seat and bed member when said davenport is in extended position, and means associated with said seat and bed member coacting with said brackets for supporting and preventing said seat and bed member from movement when said bed member is extended.



6. A combined seat and bed device for use in connection with a bed davenport, a pair of outer sections and an intermediate section hinged together so that said sections may be folded or unfolded, collapsible legs pivoted to said outer sections for supporting said member when unfolded, a pad connected to said intermediate section at one end and resilient means for connecting the other end of said pad to one of said outer sections, said pad when said device is unfolded being loose and taut when said device is folded.

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1,691,993. PULLEY. CHARLES B. ROGERS, Joplin, Mo. Filed Mar. 12, 1925. Serial No. 15,127. 3 Claims. (Cl. 64—17.)



1. In a device of the character described, a pair of spaced coaxial hub plates, a plurality of circumferentially spaced U-shaped members arranged between said plates, said members having their base portions arranged outwardly of said plates and their arms extending inwardly radially with respect to said plates and secured thereto, reinforcing members carried by the arms of said U-shaped members between the outer edges of said plates and the outer ends of said arms, and relatively heavy shoes secured against the outer faces of the base portions of said U-shaped members and extending substantially throughout the length thereof.

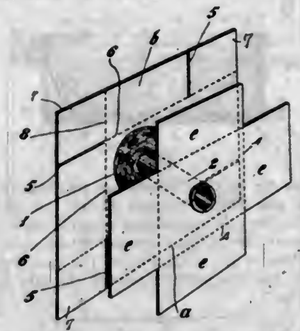
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1,691,994. SOFTENER FOR SILK AND PROCESS FOR MAKING SAME. ROBERT E. ROSE, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 17, 1925. Serial No. 69,711. 14 Claims. (Cl. 8—13.)

1. A softener for silk comprising a guanidine salt of sulfonated castor oil.



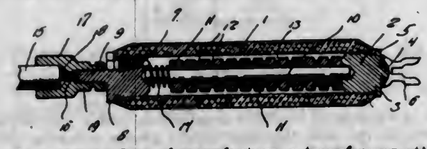
1,691,995. PACKING OF WIRE OR THE LIKE. ALFRED WALTER SAULTER, Rotherhithe, London, England. Filed Sept. 21, 1926, Serial No. 136,851, and in Great Britain Sept. 25, 1925. 3 Claims. (Cl. 206—52.)



1. A reel packet comprising a core member on and from which material is adapted to be wound and unwound, and a pair of blanks of sheet material rigidly secured respectively to the ends of said core member, said blanks having lateral flaps foldable to produce a container to house material wound upon said core member.

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1,691,996. SPARK-PLUG TRANSFORMER. ANTON S. SIMSACK, Philadelphia, Pa., assignor of one-third to Morris Apt, Philadelphia, Pa. Filed Feb. 21, 1927. Serial No. 169,912. 1 Claim. (Cl. 123—148.)

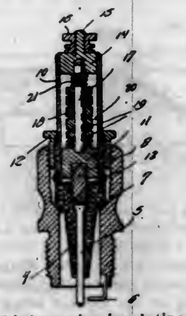


As a new product of manufacture, a transformer attachment for ordinary spark plugs, comprising an elongated tubular casing of insulation material, plugs fitted into the opposite open ends of the casing, said plugs being of electricity conducting material, and an axially alined rod of insulation material located centrally on the interior of the casing and having its opposite ends connected with said plugs, a set of metallic rings assembled upon said rods, a ring on one end of said set being in electrical connection with the adjacent one of said plugs, a coiled spring surrounding the rod at the opposite end and engaging the adjacent rings and adjacent plugs, and insulation washers surrounding the rod and interposed between the rings for spacing the rings apart, to provide spark gaps between the peripheral edges of the ring, said washers being of a diameter less than the ring, and said rings being of a diameter, less than the cross sectional diameter of the interior of said casing to provide an annular sparking space around the peripheral portions of the rings, and washers.

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1,691,997. SPARK PLUG. ANTON S. SIMSACK, Philadelphia, Pa., assignor of one-third to Morris Apt, Philadelphia, Pa. Filed Feb. 21, 1927. Serial No. 169,913. 2 Claims. (Cl. 123—169.)

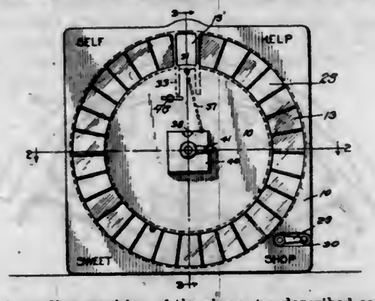
1. A spark plug comprising an annular metallic shell provided with an externally screw threaded neck adapted to be tapped into a cylinder head, a core of insulation material disposed within the shell and having its upper end terminating in inwardly spaced relation to the corresponding end of said shell, a main electrode embedded in said core, and having its lower end extending down below the bottom of the shell, a secondary electrode carried by the shell and co-operating with the first-named electrode, and a current transforming device comprising a hollow casing having upper and lower plugs of electricity conducting material fitted in its opposite ends, the lower plug and lower end portion of said casing telescoping into said shell and being disposed in abutting relation with the core and having electrical connection with said electrode, and current transforming means within the casing embodying a multiplicity of



metallic discs and intervening insulating and spacing washers, having their peripheral portions spaced from the inner wall of the casing to provide a surrounding sparking space.

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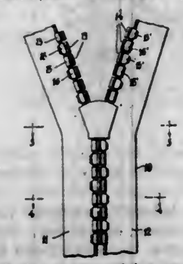
1,691,998. VENDING MACHINE. GOODWIN B. SMITH, Philadelphia, Pa. Filed May 6, 1924. Serial No. 711,493. 10 Claims. (Cl. 312—95.)




1. A vending machine of the character described comprising, a casing having a delivery opening, a rotatable drum within the casing having a set of pockets and provided with notches, means to turn the drum, a slidable closure element moving generally radially of the drum and having a longitudinally extending rib to engage within the notches of the pocket as the pockets are brought to the delivery opening, said rib remaining within the selected notch until the closure element is shifted to a substantially completely closed position, and means to move the slidable closure element to the opened and closed positions.

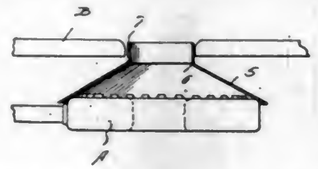
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1,691,999. FLEXIBLE FASTENING DEVICE AND MEANS FOR OPERATING THE SAME. NOEL STATHAM, Irvington-upon-Hudson, N. Y. Filed Jan 31, 1925. Serial No. 5,910. 9 Claims. (Cl. 24—205.)



4. A flexible fastener comprising a plurality of flexible supporting members, and a plurality of hook fasteners carried by each of said supporting members, the hook portions of successive fasteners on each supporting member being pointed alternately in opposite directions.

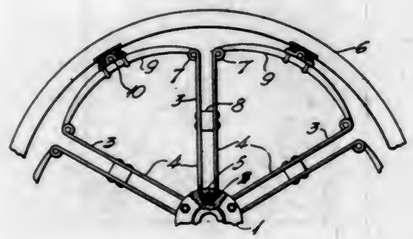
1,692,000. MANTLE FOR GAS BURNERS. JOSEPH E. STEFFENS, Hollis, N. Y. Filed Dec. 13, 1927. Serial No. 239,712. 1 Claim. (Cl. 126—214.)



In a mantle for gas burners wherein a pan supporting grating is arranged above the burner and wherein said grating is formed centrally with an opening, an inverted frusto-conical member adapted for disposition upon the burner, the edge thereof surrounding the edge of the burner, the reduced end of the member being formed with an opening, and a cylindrical flange extending upwardly from the edge of the opening for engagement within the opening of said grating.

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1,692,001. RESILIENT WHEEL. ARVID E. STENBERG, Reed City, Mich. Filed June 18, 1927. Serial No. 199,648. 3 Claims. (Cl. 152—28.)



3. In a wheel, a resilient spoke comprising spaced and parallel radially extending resilient members fixed at their inner ends and rigidly connected intermediately their ends, the outer ends of each of said members being hingedly connected to the rim of the wheel.

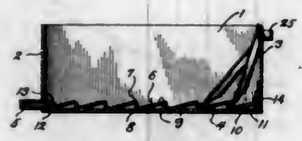
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1,692,002. SCARF HOLDER. EDWARD STRASSEL, Baldwin, N. Y. Filed Oct. 6, 1927. Serial No. 224,360. 2 Claims. (Cl. 24—64.)



1. In a necktie holder, a resilient strip upon which the necktie may be placed and formed, a contractable buttonhole piece secured at the back of said strip, the buttonhole opening through said piece being smaller than the button head to which it is to be applied, and a resilient back strip connected with the first-mentioned strip, on which separate strip said buttonhole piece is directly mounted.

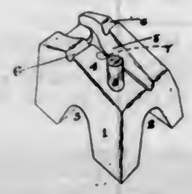
1,692,003. DISHPAN. WILLIAM S. THAYER, Scotia, N. Y. Filed Dec. 19, 1927. Serial No. 241,235. 4 Claims. (Cl. 141—9.)



1. A device for holding dishes for scalding and drying comprising a pan having a drain at one end, and a false bottom within the pan comprising a metal sheet having a series of supporting portions formed therein and inclined in the direction of the other end of the pan for supporting dishes in position inclined toward the last mentioned end of the pan.

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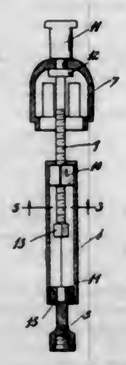
1,692,004. HAND ANVIL. RONALD C. TOLMIE, Rock Island, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Feb. 9, 1925. Serial No. 7,800. 4 Claims. (Cl. 78—6.)



1. A hand anvil having a longitudinal and a transverse groove in its face, the longitudinal groove widening and increasing in depth toward the transverse groove, and a vertical hole through the anvil adjacent the intersection of said grooves.

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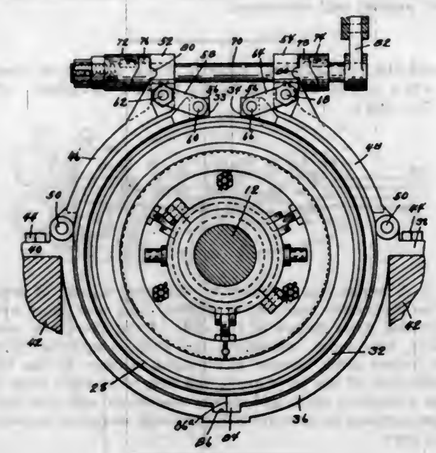
1,692,005. STANDING-VALVE LIFTER. ORVAL M. TURNER and JOSEPH J. STEPHENS, Long Beach, Calif. Filed June 6, 1927. Serial No. 196,764. 6 Claims. (Cl. 103—180.)



1. In a well including a standing valve and a plunger, puller means on the plunger, a cage seated in the well tubing, a threaded post extending through said cage, means on said post adapted to be engaged by said puller means, and means secured to said standing valve and to said post whereby the standing valve is lifted when said post is rotated.



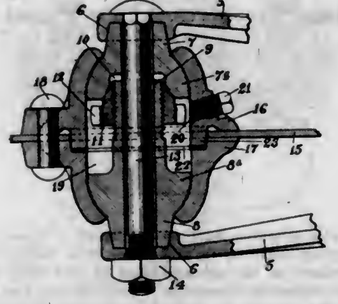
1,692,006. BRAKE MECHANISM. HENRY A. TUTTLE, Upton, Mass. Filed Apr. 4, 1927. Serial No. 180,704. 23 Claims. (Cl. 188—77.)



21. Brake mechanism comprising the combination of a brake drum, a brake band encircling said drum, and a saddle for supporting said brake band against rotation, said brake band having an axially-disengageable interlocking connection with said saddle.

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1,692,007. BEARING. WILLARD A. VAN BRUNT, Los Angeles, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 29, 1922. Serial No. 571,774. 9 Claims. (Cl. 308—19.)

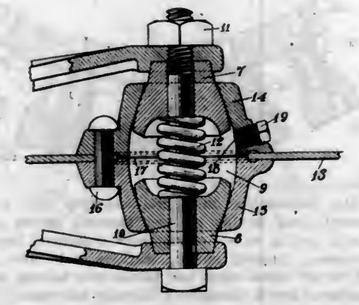


1. In combination, a bearing spindle comprising two endwise-movable non-rotating members each having its inner end portion enlarged to form a head, said heads being spaced apart to form a reservoir for lubricant, a rotatable device mounted on said heads and extending over and forming a cover for said reservoir, and movable means located in said reservoir adapted when moved to force said spindle members in opposite directions, said movable means being supported by one of said members and bearing against the other member.

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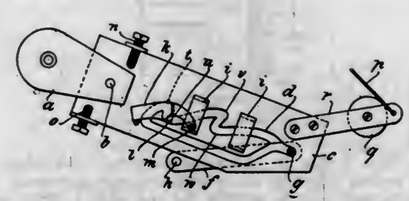
1,692,008. BEARING. WILLARD A. VAN BRUNT, Los Angeles, Calif., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed June 29, 1922. Serial No. 571,775. 6 Claims. (Cl. 308—19.)

1. In combination, two endwise-movable non-rotating bearing members spaced apart to form a reservoir for lubricant, laterally-yielding supports for said bearing members, adjustable means for locking said members to their supports, means located in said reservoir for automatically moving said members in opposite directions when said locking means is adjusted in one direction, and a rotatable device mounted on said bearing members and extending over and forming a cover for said reservoir.



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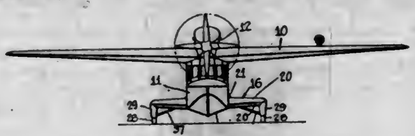
1,692,009. REMOTE CONTROL DEVICE FOR POWER WINCHES AND THE LIKE. EMIL WÄGELE, Sumpfohren, near Donaueschingen, Germany. Filed May 14, 1927, Serial No. 191,528, and in Germany May 20, 1926. 5 Claims. (Cl. 74—39.)



1. In a power-winch or the like, in combination, a control-lever, and a remote-control device comprising an operating-lever fulcrumed to the control-lever and provided with a cam-track presenting catches, and having a pivotal tumbler controlling the track, and a lever journaled to a stationary part, which cooperates with the said track and supports the operating-lever.

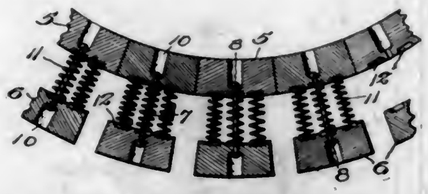
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1,692,010. RETRACTABLE LANDING GEAR. WILLIAM WAIT, Jr., Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Co., Inc., a Corporation of New York. Filed Feb. 14, 1925. Serial No. 9,120. 5 Claims. (Cl. 244—2.)



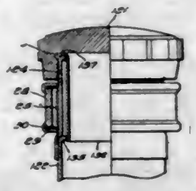
5. In an aeroplane landing gear, the combination, of a body, aerofoil surfaces hingedly fastened to and extending laterally out from said body, one each at opposite sides thereof, each said aerofoil surface being yieldingly movable under impact, retractable landing devices fastened, one to each said aerofoil surface and upon which, when extended, the weight of the aeroplane is supported while at rest, means for extending and retracting said landing devices, and shock absorbing mechanism for said landing gear arranged to yieldingly resist the impact movement of said aerofoil surfaces.

1,692,011. RESILIENT WHEEL. JAMES WARNER, Ogden, Utah. Filed Mar. 1, 1928. Serial No. 258,341. 2 Claims. (Cl. 152—8.)



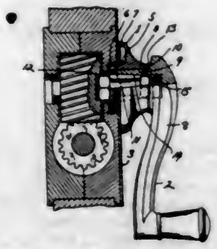
2. The combination in a resilient tire with an inner segmental block having recesses forming spring seats, a bolt hole, and a socket, of an outer segmental block having recesses forming spring seats, a bolt hole, and a socket, a bolt connecting said blocks and having heads in said sockets, and a plurality of springs interposed between said blocks and seated in said recesses.

1,692,012. INDICATING DEVICE. EDWARD C. WELLS, Dayton, Ohio, assignor to Platt Iron Works, Incorporated, Dayton, Ohio, a Corporation of New York. Filed Dec. 20, 1924. Serial No. 757,194. 6 Claims. (Cl. 116—114.)
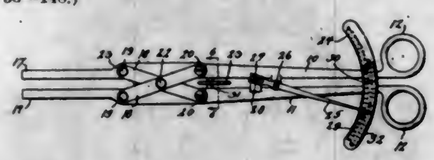


1. In a device for indicating abnormal temperature of the cooling liquid of an internal combustion engine, the combination with a radiator for the cooling liquid, said radiator having a filling spout thereon, of a band of temperature indicating material about said spout, and means for substantially enclosing said band, comprising a band of transparent material surrounding said spout and supporting rings carried by said spout and embracing the edges of said band of transparent material to support said band in position, said rings being constructed to permit exposure of said band of transparent material about the circumference thereof.

1,692,013. HANDLE CONSTRUCTION. HERBERT WILSON, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed Sept. 4, 1923. Serial No. 660,869. 3 Claims. (Cl. 292—348.)



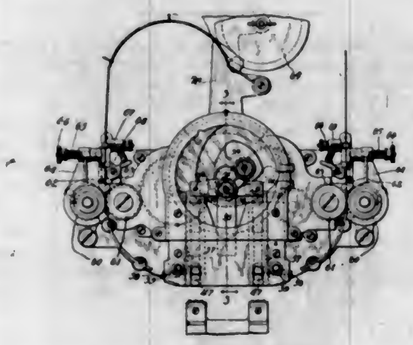
1. The combination with an escutcheon provided with a nipple at its inner end having a concentric recess therein, of a handle having a shank journalled in said escutcheon, said shank having an integral abutment at its outer end and an annular groove in its inner end, a transversely split spring clip insertable within said recess and into said annular groove, and means between said outer abutment and escutcheon for yieldably holding said spring clip against said escutcheon.

1,692,014. CALIPERS. LUKE R. WINN, Sioux City, Iowa. Filed Apr. 18, 1927. Serial No. 184,536. 5 Claims. (Cl. 33—148.)



5. A measuring instrument comprising a pair of lever arms fulcrumed together to provide long and short arm portions, jaws hinged to the ends of the short arm portions, lazy tongs connecting the jaws, comprising pairs of crossed arms, crossed and hinged together at the fulcrum axis of the lever arms, and hinged at their ends to the respective jaws, and means associated with the long arm portions to indicate perpendicular distances between the jaws.

1,692,015. STITCHING MACHINE. ERNEST LESCHHORN, Chicago, Ill., assignor to Latham Machinery Company, a Corporation of Illinois. Filed Oct. 18, 1923. Serial No. 669,240. 11 Claims. (Cl. 1—2.)



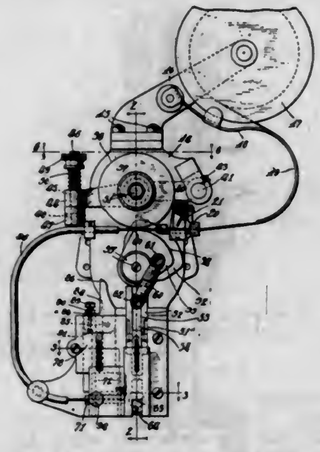
1. A wire stitching machine comprising a frame, a drive shaft located centrally in said frame, wire feeding mechanisms located on the opposite sides of said shaft and operatively connected therewith, staple forming and driving mechanisms located on the opposite sides of said shaft, cross bars slidably mounted on said frame for connecting said forming and driving mechanisms, and means for connecting said bars to said shaft in a manner to actuate said forming and driving mechanisms in co-operation with their respective wire feeding mechanisms.

1,692,016. STITCHING MACHINE. JOHN WOLF and ERNEST LESCHHORN, Chicago, Ill., assignors to Latham Machinery Company, a Corporation of Illinois. Filed Sept. 12, 1924. Serial No. 737,230. 14 Claims. (Cl. 1—2.)

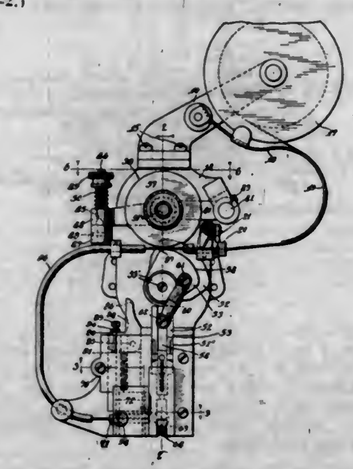
7. In a wire stitching machine, the combination with a frame, of a drive shaft mounted in said frame, a wire feeding mechanism comprising a plurality of co-operating feeding cams, one of said cams secured to said drive shaft, the other of said cams operatively geared to said shaft, staple forming and driving mechanism positioned below and operatively connected to said drive shaft, a cutting



mechanism positioned on one side of said staple forming and driving mechanism and actuated by the cam secured to said drive shaft for cutting the wire fed by said feeding mechanism, and means whereby said feeding mechanism and said cutting mechanism may be adjusted to vary the length of staples made by said stitching machine.



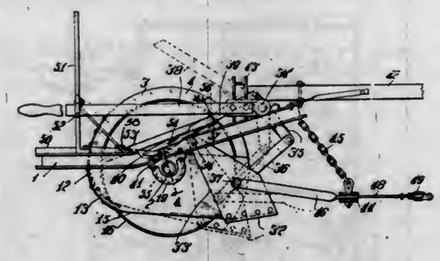
1,692,017. STITCHING MACHINE. JOHN WOLF, Chicago, Ill., assignor, by mesne assignments, of one-half to Latham Machinery Company, a Corporation of Illinois, and one-half to Frederick J. Greene, Racine, Wis. Filed Dec. 27, 1926. Serial No. 157,120. 4 Claims. (Cl. 1—2.)



3. In a wire stitching machine, the combination with a frame, of a drive shaft mounted in said frame, a wire feeding cam secured to said drive shaft, and staple forming and driving mechanism operatively connected to said drive shaft.

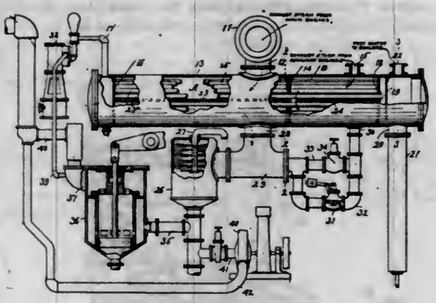
1,692,018. WHEELED SCRAPER. PHILIP C. ANDERSON, Lincoln, Nebr., assignor, by mesne assignments, to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Apr. 13, 1925, Serial No. 22,828. Renewed Aug. 7, 1926. 44 Claims. (Cl. 37—129.)

8. A scraper comprising a frame, a bucket carried by said frame, and a scraping member for directing the material to be loaded into said bucket, said scraping member being movable into and out of operative engagement with the front edge of the bucket.



19. A scraper comprising a frame, a bucket supported on said frame for rotative movement through a complete revolution, and means actuated by forward movement of the scraper for rocking the bucket to tip its front edge into engagement with the ground.

1,692,019. EXHAUST-TREATING APPARATUS FOR STEAM-POWER PLANTS. ALBERT J. ARMSON, Port Huron, Mich., assignor to The Armson Exhaust Heating Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 14, 1925. Serial No. 15,672. 4 Claims. (Cl. 60—95.)

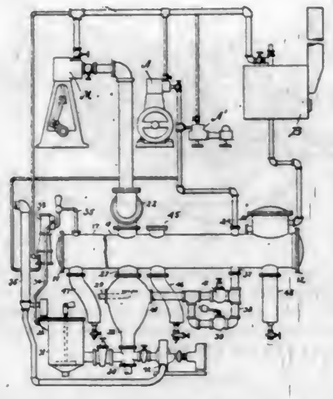


1. In a steam power plant of the type having a main engine and a plurality of auxiliary engines adapted to be supplied with steam from boilers, pipes for delivering exhaust steam from said engines, condensing means, heating chambers between said pipes and the condensing means, one of said chambers receiving exhaust steam from the main engine and the other of said chambers receiving exhaust steam from the auxiliary engines, means between the condensing means and the chamber receiving steam from the auxiliary engines for maintaining in the second chamber relatively high temperature and pressure conditions, and feed water pipes extended through said chambers and adapted to be connected to the boilers.

1,692,020. EXHAUST-TREATING APPARATUS FOR STEAM-POWER PLANTS. ALBERT J. ARMSON, Port Huron, Mich., assignor to The Armson Exhaust Heating Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 20, 1925. Serial No. 44,713. 15 Claims. (Cl. 60—95.)

5. In a steam power plant of the type having a main engine and a plurality of auxiliary engines adapted to be supplied with steam from boilers, a feed water heating apparatus comprising two heating chambers with an intermediate settling chamber, and means for passing ex-

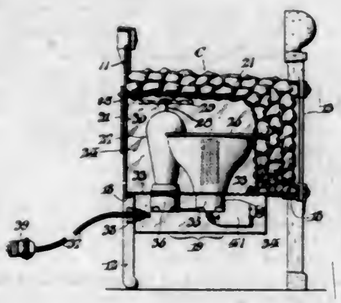
haust steam from the main engine through one heating chamber and the exhaust steam from the auxiliary engines through the other heating chamber, the first under con-



d. nsing conditions and the second under non-condensing conditions whereby the feed water is heated to a higher temperature in the second heating chamber.

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1,692,021. ORNAMENTAL FIREPLACE GRATE. RUDOLPH W. AUER, Philadelphia, Pa. Filed Dec. 17, 1925. Serial No. 76,113. 3 Claims. (Cl. 272—8.)

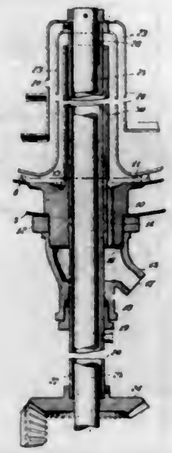


1. An ornamental electric fireplace comprising an open-topped housing with a grated front, a solid back and side walls, a separable corrugated bottom reflector plate having a recessed lower section; a foraminous partition extending across the top of the housing and down behind its grated front with provision of a horizontal supporting and a vertical frontal interspace, for translucent imitation coals, as well as an inner chamber; vertically-directed electric illuminating and heating means within said chamber to project light and heat through the translucent coals; pin wheels supported by angled brackets directly over the illuminating means to produce flickering; and a door protecting an opening in the back walls of the housing through which access is had to parts at the interior.

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1,692,022. MIXING MACHINE. SAMUEL BABITZKY and VINCENT MATHE, Chicago, Ill. Filed June 25, 1924. Serial No. 722,306. 10 Claims. (Cl. 259—43.)

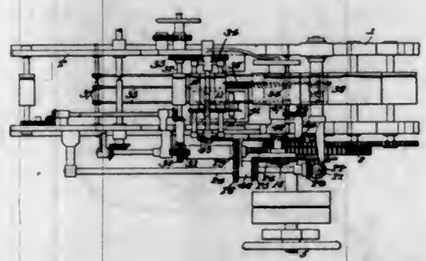
1. In a mixing machine, a pair of spaced shells, a closure for said shells, a spacer element disposed centrally of said shells at the bottom thereof, agitator driving means journaled in said element, and extending into said shells, means carried by said element for preventing the contents of said shells from coming in contact with said agitator driving means, and liquid withdrawing means



associated with said element, said liquid withdrawing means communicating with said inner shell through said element.

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1,692,023. SHEET-FEEDING MECHANISM FOR PRINTING PRESSES. HOWARD M. BARBER, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a Corporation of Delaware. Filed Dec. 17, 1927. Serial No. 240,739. 6 Claims. (Cl. 164—68.)



1. Mechanisms for feeding a web and cutting sheets therefrom, a sheet feeding mechanism, a sheet taking device, a carriage for the web feeding and cutting mechanisms adjustable toward and away from the sheet taking device along the sheet feeding mechanism, and a manually controlled variable speed mechanism for driving the sheet feeding mechanism.

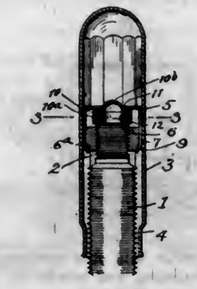
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1,692,024. QUICK-DETACHABLE DUST CAP. ADELBERT E. BRONSON, Cleveland, Ohio, assignor to The Dill Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1924. Serial No. 732,407. 9 Claims. (Cl. 152—12.)

1. A quick detachable dust cap comprising a shell which is open at one end, a hollow member within the shell and having spring fingers adapted to engage with a wall thereof, said fingers having inwardly extending portions, a nut within the hollow member in engagement with the spring fingers and adapted to be screwed upon a valve stem, said nut being free to move longitudinally within said hollow



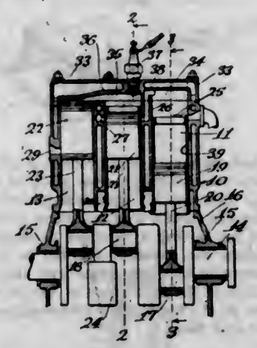
member to engage the inwardly extending portions of the fingers and to press said fingers against the wall of the shell, and means within the hollow member for engaging



with the end of a valve stem, interengaging parts of the shell, hollow member and nut holding the same against relative rotation.

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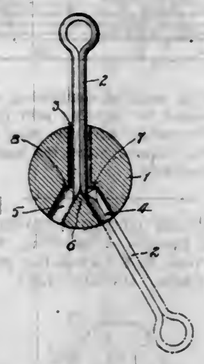
1,692,025. INTERNAL-COMBUSTION ENGINE. EVERETT R. BURTNETT, Los Angeles, Calif., assignor, by direct and mesne assignments, to The Automotive Valves Co., Los Angeles, Calif., a Voluntary Trust. Filed Oct. 23, 1924. Serial No. 745,343. 1 Claim. (Cl. 123—70.)



In a two stroke cycle internal combustion engine, a pair of combustion chambers and a pumping chamber, a head closing all of said chambers, there being a pocket formed in the underside of said head for connecting the head ends of the combustion chambers and providing a common compression and combustion clearance chamber for said combustion chambers, there being a recess formed in said head, which recess is coincident with and constitutes a head extension for the pumping chamber, a duct leading from the recess in the head above the pumping chamber downwardly through the wall between said pumping chamber and the adjacent combustion chamber, the lower end of which duct communicates with the combustion chamber in a plane below its upper end, an inlet port formed through the wall of the pumping chamber at a point below its lower end, a sleeve valve arranged for reciprocatory movement within the pumping chamber for controlling the charge volume inlet port thereto, a sleeve valve arranged for reciprocatory movement within the combustion chamber that is connected by the duct to said pumping chamber, which last mentioned sleeve valve controls the inlet of pumped fuel charges to the combustion chambers, pistons arranged for operation within the three chambers, a crank shaft to which said pistons are connected, a crank-shaft having two throws arranged 180° apart, connections between the pistons within the combustion chambers and one of said cranks, a connection from the piston in the pumping chamber and the other one of the two cranks and a diametrically arranged counterbalancing weight mounted on the intermediate portion of the crank to which the pistons in the combustion chambers are connected.

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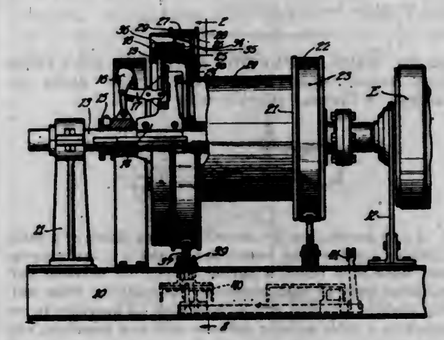
1,692,026. COTTER-PIN-LOCKING MEANS. GEORGE T. COOKE, Norwalk, Conn. Filed Apr. 12, 1928. Serial No. 269,380. 2 Claims. (Cl. 85—7.)



1. In a cotter pin locking device, a pin body designed to receive a cotter pin, said pin body having a cotter pin entrance bore proceeding part way through the same, two divergent exit bores for the two ends of a cotter pin, said exit bores communicating with the entrance bore, a cotter pin spreading wedge between said exit bores and facing the entrance bore, with a stop shoulder within each exit bore to prevent a cotter pin from being entered into the entrance bore through one of the exit bores.

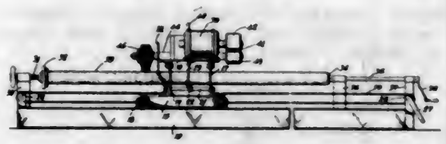
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1,692,027. COMBINATION BRAKE AND GUARD STRUCTURE. JAMES E. DE LONG, Waukesha, Wis., assignor to Waukesha Motor Company, Waukesha, Wis., a Corporation of Wisconsin. Filed May 19, 1927. Serial No. 192,511. 3 Claims. (Cl. 192—17.)



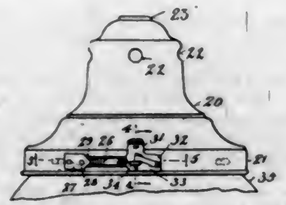
3. In combination, a shaft, a drum loose on the shaft and provided at one end with a head having an axially extending clutch rim, clutch means including elements movable into and out of operative relation to the outer face of the rim, a housing and brake drum member having a rim disposed adjacent and concentric with the clutch rim and a radial flange adjacent the inner face of the drum head, the two rims forming a housing enclosing the clutch members and associated parts, said housing and brake drum member being formed in two substantially semi-circular sections having radial flanges at their ends, means detachably securing said flanges together, and means removably securing said sections to the drum head.

1,692,028. PIPE-CLEANING APPARATUS. WALTON H. ELLIOTT, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed July 16, 1926. Serial No. 122,774. 7 Claims. (Cl. 29—81.)



1. A pipe cleaning machine comprising means for supporting a pipe, means for rotating said pipe, a rotating hammer adapted to contact with the pipe, and means for moving the rotating hammer along the length of the pipe while in contact therewith.

1,692,029. LIGHT OR GLOBE ATTACHING DEVICE. JAMES BARRETT EPSTEIN, Jersey City, N. J., and MOE SHENKIN, New York, N. Y. Filed Jan. 25, 1927. Serial No. 163,340. 1 Claim. (Cl. 240—128.)



In a light fixture for removably securing a globe in position, a supporting member having a depending skirt with a slit therein, fixed globe engaging members on the inner side of said skirt, a hasp adjacent said slit projecting outwardly from said skirt and a resilient globe engaging member having a portion of its resilient part extending through the slit and a portion surrounding the extending portion of said hasp and a hook on said resilient extending portion for engaging the hasp to thereby secure the resilient member in its globe holding position.

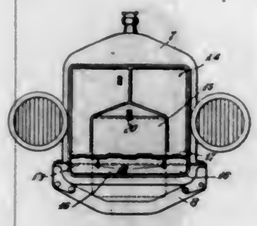
1,692,030. WIRE-INSULATION STRIPPER. LEON FRIEDMAN, Detroit, Mich. Filed Oct. 21, 1926. Serial No. 143,163. 8 Claims. (Cl. 81—9.5.)



1. A tool for slitting the outer insulating sleeve of a cable comprising a pair of jaw members channeled to embrace opposite sides of a cable, a spring connection between corresponding ends of said members, maintaining them normally slightly diverged and formed with an aperture to accommodate a cable passing between said jaw members, and a knife blade carried by one of said members upon its end portion opposite to that engaged by said spring connection disposed substantially in the central longitudinal plane established by both of said members.

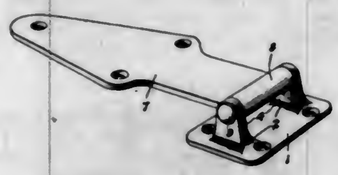
1,692,031. APPARATUS FOR CONTROLLING THE VENTILATION OF AUTOMOBILE RADIATORS. CARL H. GAMBLE, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Mar. 21, 1925. Serial No. 17,176. 4 Claims. (Cl. 189—54.)

1. A ventilating apparatus for automobile radiators comprising a base plate adapted to be secured to the lower portion of a radiator, a shutter hinged to said base plate to swing toward and from the face of the radiator and having an opening therein somewhat less in width than the shutter, a smaller shutter for said opening hinged to



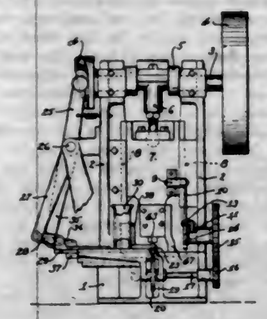
swing toward and from said first-mentioned shutter to open or close said opening, and means for securing said shutters together to swing in unison.

1,692,032. HINGE. CARL GESKE, Grand Rapids, Mich., assignor to Winters & Crampton Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 19, 1927. Serial No. 220,327. 2 Claims. (Cl. 29—11.)



2. The herein described method of producing a hinge member which consists in providing a base plate of flat metal having an opening therethrough, said base plate around the opening being raised to form a boss, inserting a lug through the opening, said lug having a shoulder between its ends with a section below the shoulder adapted to freely pass through the opening in the base plate and then riveting said reduced section at the under side of the base plate to draw the shoulder on the lug tightly into engagement with the upper side of said boss.

1,692,033. CLEAT-MAKING AND CLEAT AND HANDLE ASSEMBLING MACHINE. JAMES A. GRAY, San Francisco, Calif., assignor to American Can Company, San Francisco, Calif., a Corporation of New Jersey. Filed May 2, 1925. Serial No. 27,590. 20 Claims. (Cl. 153—13.)



1. An apparatus for the described purpose comprising means for positioning a loop member and a cleat member in assembling relation, and means for uniting the said members by bending the cleat member and forming therein a bearing to embrace a portion of the loop member to an extent sufficient to prevent its removal therefrom, and means for forming the two ends of the cleat member as extensions to fit on a can to be soldered thereto.

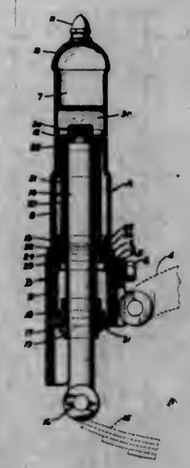


1,692,034. DOOR ENGINE. PERCY M. GRIFFIN, Albany, N. Y., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y., a Corporation of New York. Filed Nov. 12, 1921. Serial No. 514,691. 9 Claims. (Cl. 121—44.)



1. A door engine comprising a door closing cylinder, a door opening cylinder, pistons in the respective cylinders, means connecting the pistons, a duct connecting the two cylinders so that excess pressure in the door closing cylinder may be conveyed to the other cylinder, means for exhausting said last mentioned cylinder, and means in said duct operated at the end of the door closing movement of the pistons to close said duct so that a holding pressure may be maintained upon the piston in the door closing cylinder.

1,692,035. AIR SPRING. RAYMOND L. GRUSS, San Francisco, Calif., assignor, by mesne assignments, to Gruss Air Spring Company of America, San Francisco, Calif., a Corporation of California. Filed Sept. 10, 1924. Serial No. 736,883. 5 Claims. (Cl. 267—65.)



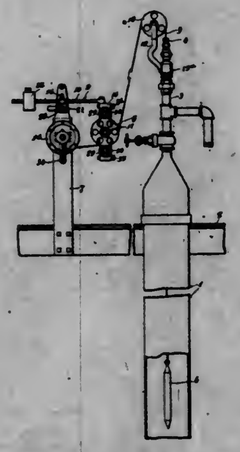
1. An air spring of the character described comprising an elongated cylinder divided into upper and lower sections of varying diameter and the upper section presenting the smallest diameter, a head forming a closure for the upper cylinder section, a piston rod extending through the lower cylinder section and into the upper section, said rod being of smaller diameter than the upper cylinder section, a piston on the upper end of the rod and operating within the upper section of the cylinder only, a second piston on the rod and operating in the lower cylinder section only, an upwardly turned cup-leather carried by the upper piston, a pair of cup-leathers carried by the lower piston, said cup-leathers being reversed so that one extends upwardly and one downwardly, a metallic annular extension on the upper piston forming a bearing for the upper cup-leather to relieve the same of all side thrust, and a metallic annular bearing extension on the lower piston to relieve the lower pair of cup-leathers of side thrust.

1,692,036. WINDOW-CLEANING DEVICE. LOUIS HACHENBERG, Throggs Neck, N. Y., assignor of one-half to William Brady, Ossining, N. Y. Filed Apr. 9, 1927. Serial No. 182,353. 8 Claims. (Cl. 15—255.)



1. A window cleaning device comprising, an arm adapted to be moved in a plane parallel to the window, a cleaning element mounted to oscillate on said arm, said element including oppositely disposed scrapers and a resilient wiper interposed between said scrapers, the contact surface of said wiper normally extending beyond the edges of the scrapers, whereby the movement of the arm will rock the element and bring one of the scrapers into contact with the window glass.

1,692,037. WELL-SOUNDING DEVICE. ERLE PALMER HALLIBURTON, Los Angeles, Calif. Filed June 15, 1926. Serial No. 116,156. 12 Claims. (Cl. 33—126.)

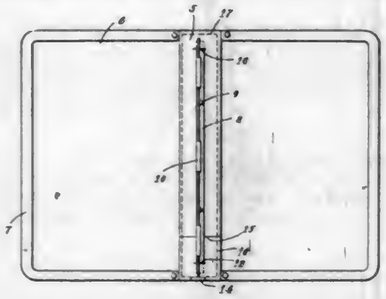


1. In a device for sounding a deep well, the combination of a reel, guiding means at the well, a measuring wheel located in a general horizontal direction between the reel and

the guiding means, a weighted sounding wire coiled on the reel, passing around the measuring wheel, over the said guiding means and into the well, and means for supporting the measuring wheel to oscillate to and fro before the reel about an axis substantially coinciding with the axis of the well, as the wire is drawn off from the same.

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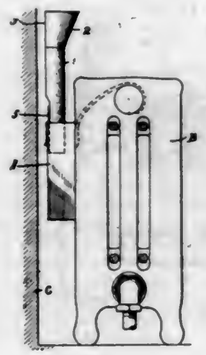
1,692,038. MENU-CARD HOLDER. RAY O. HARDING, Rockford, Ill., assignor of one-half to Joseph P. Corley, Rockford, Ill. Filed Nov. 22, 1926. Serial No. 149,860. 4 Claims. (Cl. 129—1.)



1. A loose leaf holder of the character described comprising a back of flexible material having a pair of cover members attached to the longitudinal edges thereof, a narrow flat strip of rigid material extending lenghtwise of the back midway between the covers and attached thereto, said strip serving to stiffen the otherwise limp material of the back as well as lend definite form there to so that the covers will fold properly onto one another, eyelets provided on said strip and arranged for engagement through apertures in a leaf to be inserted in the holder, and a pin approximately the length of the back passed through the eyelets over the leaf to retain the latter in place.

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1,692,039. FILLER FOR RADIATOR PANS. WILLIAM H. HINZ, Oak Park, Ill. Filed Nov. 19, 1927. Serial No. 234,352. 1 Claim. (Cl. 226—31.)



A filling device for radiator pans comprising an open-ended tubular member having an enlarged upper end, the rear side of said enlarged end being in the same vertical plane as the rearmost vertical part of the said tubular member the lower end of the rear wall of the tubular member being displaced inwardly, and a vertical clip lying behind and secured at its upper end to said displaced part of the rear wall of said tubular member.

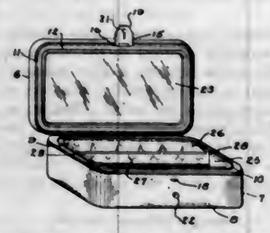
1,692,040. DRIED MARMALADE AND PROCESS OF PRODUCING THE SAME. HARVEY L. HULBURT, Monrovia, Calif., assignor to Murray California Food Products Inc., Azusa, Calif., a Corporation of California. Filed Sept. 20, 1926. Serial No. 136,730. 10 Claims. (Cl. 99—11.)

1. A process of producing dried marmalade, which comprises applying to fruit peel a dry admixture of jellifying ingredients, and then drying the peel.

10. A marmalade base comprising substantially dry sliced citrus fruit peels containing natural oils and coated with jellifying ingredients in quantity sufficient to form a jelly-like body when the marmalade base is heated with added water.

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1,692,041. COMBINED CIGARETTE AND VANITY CASE. JAMES J. KLEIN, New York, N. Y. Filed July 3, 1926. Serial No. 120,277. 6 Claims. (Cl. 132—83.)



1. In a combined cigarette and vanity case, a container, a hinged cover for the container, lining members for the container and cover walls formed of yieldable material and having cooperating bead and groove edges cooperating to form a water tight joint substantially in the plane of meeting of the container and cover, whereby when the cover is closed the container will be substantially water tight.

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1,692,042. TOY GAME TARGET. MASUTARO KOIZUMI, Prosser, Wash. Filed Feb. 23, 1928. Serial No. 256,214. 1 Claim. (Cl. 273—102.)

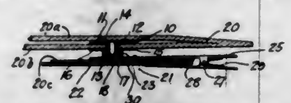


In combination a toy game target, with perpendicular frame, and a plurality of target plates hinged at their bottoms to the frame, with latches pivotally attached to the frame above the plates; means for normally holding the latches from contact with plates, and means for normally compressing the tops of the plates away from the frame and against the latches to thereby retain the latches over the plates till the plates are struck on the front sides with a missile; pictures on the frame and concealed by the plates when held upward by the latches and disclosed when the plates are released from the latches; with a rod mounted in a tube attached to the frame and normally pressed upward by a spring, with a picture mounted on the top of the rod, and a hook for normally holding the rod down and the spring compressed and the picture concealed, with a target plate attached to the hook and actuated by impact from a missile, whereby the rod is released and the attached picture disclosed.



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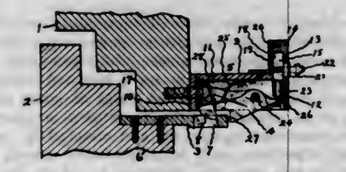
1,692,043. TIE FASTENER. FRANZ KREMSKI and HERMAN SIEMERING, New York, N. Y. Filed Mar. 7, 1927. Serial No. 173,375. 5 Claims. (Cl. 24—73.)



1. Tie fastening means comprising a disc having a pointed shank adapted to pierce the inside layer of the front flap of a tie, a companion disc having a socket for the reception of the said pointed shank, a clasp removably attached to a shirt and the back flap of the tie, and means to detachably secure the said companion disc to the said clasp.

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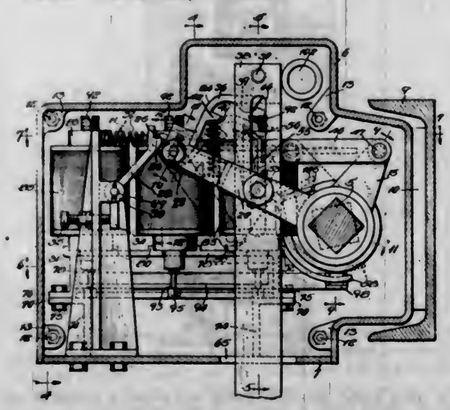
1,692,044. VAULT-DOOR SAFETY DEVICE. JOHN B. LISCHKE, Lancaster, Ky. Filed June 16, 1927. Serial No. 199,386. 9 Claims. (Cl. 109—3.)



1. A device of the character described and including in combination, a vault door, a keeper thereon, a vault body element, a latch mount carried by the vault body element, a latch tiltably mounted upon said latch mount intermediate its extremities and adapted to cooperate with said keeper, and lock controlled means for tilting said latch.

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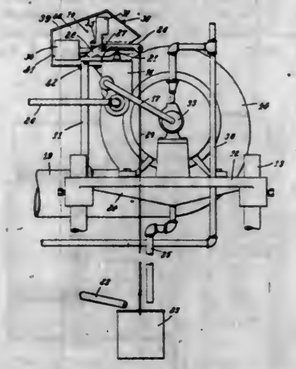
1,692,045. SWITCH-OPERATING MECHANISM. ALFRED F. C. LOTZ, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 1, 1924. Serial No. 710,334. 19 Claims. (Cl. 74—14.)



1. In combination, a rock shaft, a rocking member on said shaft, a detent for holding said rocking member set, a toggle connected between said rocking member and the shaft and adapted when the rocking member is set to hold the shaft in one position, latch means for holding said toggle in holding position, automatic means for tripping out said latch to release the toggle and shaft manually operable means for tripping said detent and latch to release the rocking member and the toggle.

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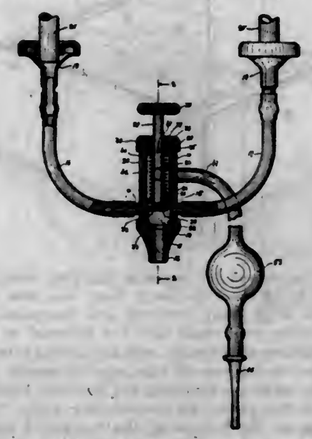
1,692,046. VALVE MECHANISM FOR OIL BURNERS AND THE LIKE. JOHN H. MCILVAINE, Lake Forest, Ill. Filed Aug. 23, 1926. Serial No. 130,835. 13 Claims. (Cl. 137—139.)



1. A shut-off valve of the character described comprising a lever pivoted intermediate its ends, said lever having a counterweight on one side of its pivot, a normally empty receptacle supported by said lever on the other side of its pivot and arranged to be loaded in a certain eventuality, said receptacle when empty being approximately counterbalanced by said weight, a valve member to be operated when said receptacle is loaded, and a weighted member for operating the same, said weighted member being pivoted and arranged to be raised to a dead center cocked position, and having a part moved by said lever as the same is tilted by the load of said receptacle whereby to cause said weighted member to drop and thereby operate said valve member, the parts being so arranged that the movement of the weight member to cocked position brings the lever with its counter-weight to normal position.

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1,692,047. HYDROTEETH CLEANSER. GEORGE W. MOORE, New York, N. Y. Filed Sept. 30, 1925. Serial No. 59,576. 11 Claims. (Cl. 128—220.)

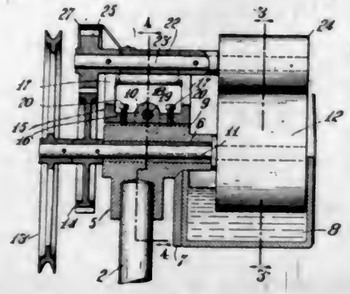


1. A device for cleansing teeth by the local application of a powerful jet of water, comprising a casing, hot and cold water tubes connected to said casing, a ported cham-

ber for mixing the hot and cold water and for determining the temperature and pressure of the mixed water, a valve in said casing, a second chamber normally closed by said valve to the admission of water thereto, said valve adapted to be moved to close the port from said first mentioned chamber and to enable the mixed water to be discharged into the second mentioned chamber, and a mouth cleansing and washing device connected to the second mentioned chamber.

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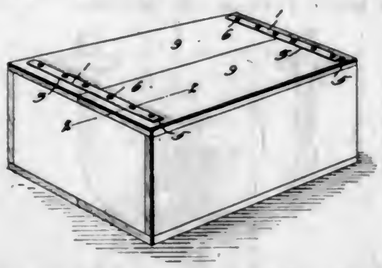
1,692,048. GLUE-APPLYING APPARATUS. LOUIS R. MUSKAT, Chicago, Ill., assignor to Triangle Packaging Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1927. Serial No. 229,822. 4 Claims. (Cl. 91—51.).



1. An apparatus of the kind described embodying therein a support, an open top container arranged at the front thereof, a driving shaft journalled in said support, a roll fixed to said shaft and arranged with a part of its periphery in said container, a saddle block mounted on the support and capable of an adjustable tilting movement about an axis at a right angle to said support, an arm pivotally mounted at one end on said saddle block about an axis parallel with said driven shaft, a second shaft journaled in the other end of said arm and arranged parallel with the driven shaft, a roll on said second shaft adapted for peripheral engagement with said first roll and means operatively connecting said shafts.

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1,692,049. PACKING BOX. REDMOND H. PANGBORN, Tacoma, Wash. Filed Jan. 7, 1928. Serial No. 245,109. 1 Claim. (Cl. 217—66.)



A fastening means for boxes or the like, comprising a metallic strip of concavo-convex form, the side and end edges of the strip being inturned and sharpened to provide for driving said edges into the material of the box in the application of the strip, said strip being formed with openings for the passage of the securing means, the material of the strips surrounding the openings being forced inwardly of the strip and terminating above the horizontal plane of the bottom of the sharpened side edges to provide for projections to engage with the surface of the box to prevent distortion of the strip under the blows incident to the application of the fastening means.

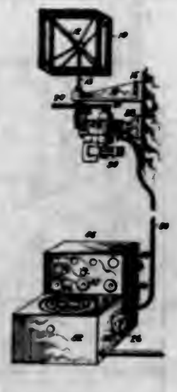
1,692,050. DEEP-WELL PUMP. WILLIAM C. PARRISH, Port Arthur, Tex. Filed Apr. 16, 1924. Serial No. 706,796. 2 Claims. (Cl. 172—126.)



1. An electric motor adapted to produce reciprocating motion of substantially uniform power over the entire range of an unidirectional stroke which comprises a movable shaft, a plurality of armatures mounted loosely upon said shaft, collars fixed on the shaft at equal intervals adapted to be engaged by the armatures, a plurality of solenoids connected in parallel and adapted to cooperate with said armatures, said solenoids being equally spaced at intervals less than the intervals at which the collars on the shaft are spaced, a source of electrical power for the solenoid, and contact means for energizing said solenoids during the working stroke of the shaft.

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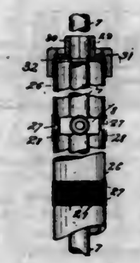
1,692,051. RADIO DIRECTION AND POSITION FINDER. MARTIN L. PATTERSON, Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed May 21, 1923. Serial No. 640,423. 3 Claims. (Cl. 250—11.)



1. In a radio direction finder for ships, a rotatable antenna positioned beyond the effective wave-disturbing field of said ship, a motor for rotating said antenna mounted adjacent thereto, a bearing indicator operatively connected to said antenna and positioned within said field, and a controller in said field for controlling said motor.



1,692,052. AUTOMATIC FIRE-EXTINGUISHING APPARATUS AND SYSTEM. WILLIS J. PERKINS, Grand Rapids, Mich., assignor to Frances W. Perkins, Grand Rapids, Mich. Filed Sept. 2, 1922. Serial No. 585,898. 4 Claims. (Cl. 169—5.)

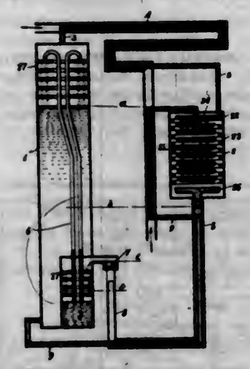


1. In a fire extinguishing apparatus, a series of flexible annular metallic bellows wafers hermetically connected together and closure means for the two terminal members of the series to form an expansible, elastic tank to enclose a fire extinguishing medium and when filled with same to exert a constant integral spring ejecting pressure on said medium, said tank having an outlet.

2. In a fire extinguishing apparatus, an expansible self collapsing tank enclosing a fire extinguishing medium, said tank operating to exert an inherent ejecting pressure on said medium, and a distributing pipe communicating with said tank and having a fusible element associated therewith, in combination with an alarm or signal device, and a pivotally mounted, spring pressed lever engaging said tank and normally restrained thereby from movement, but adapted on collapse of said tank to cause operation of said alarm or signal device.

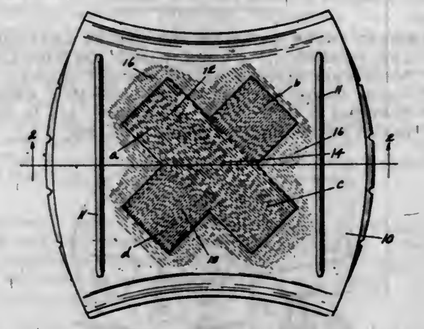
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1,692,053. REFRIGERATING MACHINE. GUNNAR ROOS, Stockholm, Sweden. Filed Mar. 20, 1926, Serial No. 96,198, and in Sweden Mar. 28, 1925. 3 Claims. (Cl. 62—119.)



1. In an absorption refrigerating apparatus having the absorber and vaporizer in a common chamber, containing an inert gaseous agent, and in which the cooling agent is introduced in a liquid state, means on the walls of the chamber for distributing the liquid cooling agent in such a manner as to cause the liquid cooling agent to be distributed and vaporized on the walls of the chamber, and distributing means for the absorption liquid supported in spaced relation to the walls of the chamber.
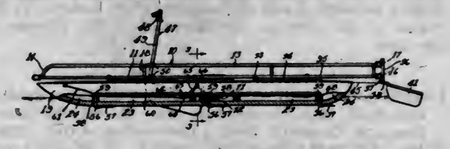
1,692,054. TIRE-REPAIR PATCH. CLYDE M SEMLER, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 14, 1925. Serial No. 69,019. 8 Claims. (Cl. 152—26.)



7. A patch for tires comprising rubberized cord strips secured together in cross formation with the cords extending longitudinally in each strip.

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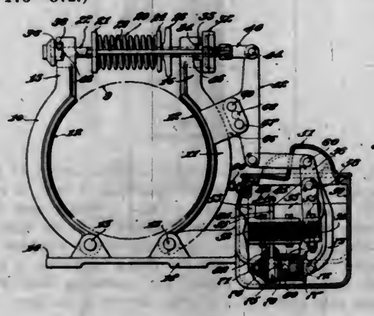
1,692,055. APPARATUS FOR WALKING ON WATER. ALBERT N. SHELDON, Ventura, Calif. Filed Dec. 13, 1927. Serial No. 239,635. 7 Claims. (Cl. 9—21.)



1. An apparatus for walking on water comprising floats, a fin movably mounted on each of the floats, a lever mounted in each of the floats operable in one direction by weight of the operator imposed thereon, and a means connected with each fin operable by movement of each of the levers in said direction to move the associated fin into extended position.

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1,692,056. ELECTROMAGNET. WILLIAM S. SMITH, Cambridge, Mass. Original application filed July 28, 1922, Serial No. 578,121. Divided and this application filed Feb. 27, 1926. Serial No. 91,118. 5 Claims. (Cl. 175—372.)

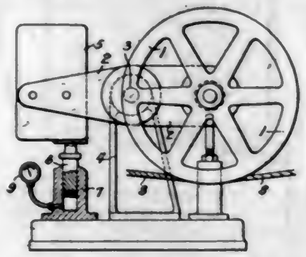


1. An electro-responsive device comprising a magnet and an armature immersed in insulating liquid, one of said members being movable and the other fixed, and a dash-pot comprising a cylinder pivotally mounted on a fixed pivot and a pivotally mounted plunger movable therein and mounted on the movable one of said two first mentioned members; said cylinder being provided with an

outlet valve opening and with means for varying the size of said opening; said dash-pot being immersed in said insulating liquid and using it as a medium to retard the movement of said plunger when said magnet is energized.

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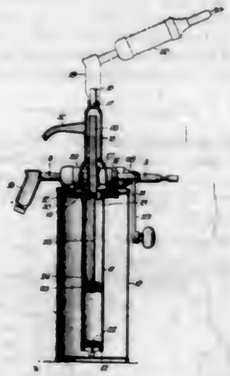
1,692,057. DYNAMOMETER FOR USE IN MEASURING THE TENSION IN A ROPE, CABLE, OR THE LIKE. WILLOUGHBY STATHAM SMITH, Newton Poppleford, and ALFRED DEVER SHUTER, Harrow-on-the-Hill, England. Filed May 5, 1927, Serial No. 188,968, and in Great Britain Feb. 26, 1927. 2 Claims. (Cl. 265—1.)



1. In a dynamometer for use in measuring the tension of a cable, the combination of a support, a lever pivoted thereto, a measuring sheave mounted on one arm of the lever, a counterweight on the other arm of the lever, and a fluid pressure device for measuring the moment of the thrust of the cable on the sheave about the fulcrum of the lever.

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1,692,058. GREASE-GUN FILLER. CHARLES SPAETH, Cleveland, Ohio, assignor to The Marvel Equipment Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 12, 1925. Serial No. 68,494. 5 Claims. (Cl. 221—47.5.)

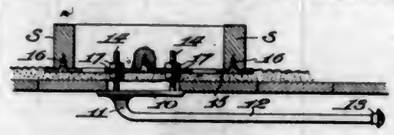


1. In a grease gun filler, the combination of a grease container, a pump cylinder mounted therein, a cover for said container connected to said cylinder and having a grease conducting portion terminating at its upper end in a substantially vertical discharge nozzle adapted for connection to a grease gun for filling purposes, a piston in said cylinder, and means for operating said piston to cause said piston to discharge grease to the gun.

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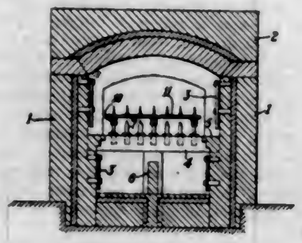
1,692,059. TOWEL BAR. VICTOR E. STARNER, Bell, Calif. Filed Oct. 5, 1926. Serial No. 139,594. 3 Claims. (Cl. 211—123.)

1. The combination with an anchor plate that is adapted to be embedded in a wall structure, of means for rigidly securing said anchor plate to parts of the wall structure, a plate adapted to occupy a portion on the face of the wall structure in which the anchor plate is embedded, threaded studs formed integral with said plate, which threaded studs pass through and are adjustably connected to the anchor plate, a short arm formed integral with and projecting forwardly from said plate, a horizontally disposed rail formed integral with and projecting laterally from said short arm, said rail being spaced apart from and lies parallel with the face of the wall structure, and the free end of said rail being spaced apart from the wall structure in order to provide an opening through which articles may be moved lengthwise of the rail when positioned thereon, or removed therefrom.



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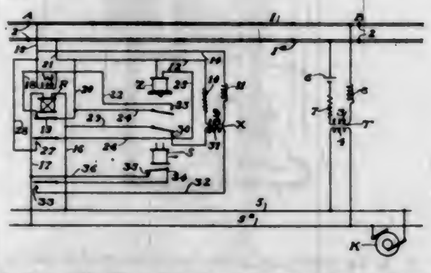
1,692,060. ENAMELING FURNACE. RANDAL E. TALLEY, Irwin, Pa. Filed Oct. 19, 1927. Serial No. 227,131. 4 Claims. (Cl. 25—132.)



1. In an enameling furnace the combination with a permanent rack for supporting articles, of a plurality of bars for capping portions of said permanent rack, said bars being removably attached to said rack and being further disposed to constitute supports for removable rack members which are adapted to be charged into the furnace.

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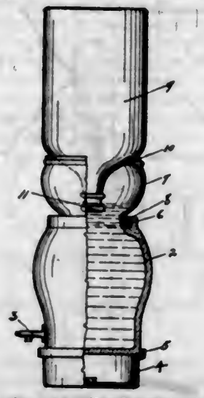
1,692,061. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1926. Serial No. 131,626. 4 Claims. (Cl. 246—40.)



1. In combination, a section of railway track, a source of alternating current and a source of direct current constantly connected with one end of the section, an alternating current relay connected with the other end of the section, a direct current relay for controlling the alternating current relay, and means controlled by traffic in one direction only for supplying current to the relay end of the section only when both of said relays are de-energized.



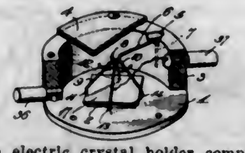
1,692,062. DRINKING-WATER-SERVING OLLA. EDMUND J. TOBIN, Altadena, Calif. Filed Apr. 3, 1928. Serial No. 266,913. 4 Claims. (Cl. 62—91.)



1. In combination, an olla for drinking water, an intermediate member secured into the upper end thereof with a water tight joint, and adapted to support a reservoir of water therein and above the top of said olla, and a reservoir of water set into said intermediate member with its lowermost part above the top of said olla, whereby water completely fills said olla and rises into said intermediate member.

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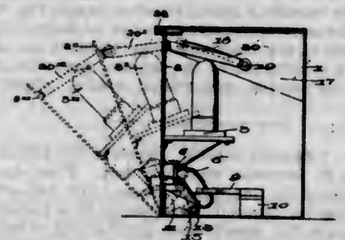
1,692,063. PIEZO-ELECTRIC-CRYSTAL APPARATUS. ARTHUR M. TROGNER, Takoma Park, Md., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1926. Serial No. 104,381. 10 Claims. (Cl. 171—327.)



1. A piezo electric crystal holder comprising in combination a conductive plate for supporting a piezo electric crystal element, a metallic plate for establishing electrical connection with the upper surface of said piezo electric crystal element, and a thread member secured through said conductive plate member to maintain said metallic plate and piezo electric crystal element in a selected position relative to each other and to said conductive plate.

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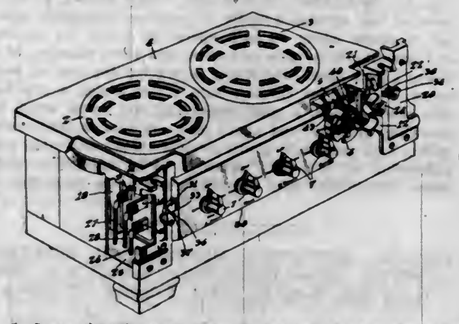
1,692,064. RADIO RECEIVING APPARATUS. ARTHUR M. TROGNER, Takoma Park, Md., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,110. 5 Claims. (Cl. 250—14.)



1. A radio receiving apparatus comprising a cabinet structure, a plurality of contacts mounted adjacent the base of said cabinet structure providing circuit terminals within said cabinet structure, a removable panel member for normally closing said cabinet structure carrying radio receiving apparatus thereon, said removable panel member having an insulated sub-panel thereon with connecting members projecting from said insulated sub-panel, said connecting members projecting horizontally into said cabinet structure and depending at an angle with respect to said sub-panel for engaging said contacts within said cabinet structure for establishing continuous slidable connection with said contacts within said cabinet structure while said panel member is being moved a substantial distance from said cabinet structure for permitting access to radio equipment carried by said panel while said connection is maintained between said connecting members and said contacts.

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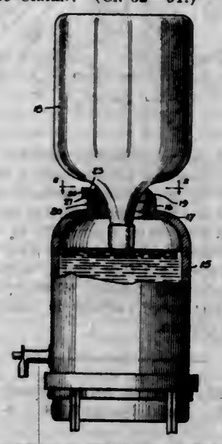
1,692,065. ELECTRIC RANGE. ARTHUR W. WALKER, Malden, and ALBERT L. SMITH, West Medway, Mass., assignors to Walker & Pratt Mfg. Co., Boston, Mass., a Corporation of Massachusetts. Filed May 7, 1924. Serial No. 711,590. 17 Claims. (Cl. 219—37.)



1. In an electric range, the combination of a switch board comprising a plurality of switches and bus bars supporting said switches, means for holding said switch board in its operative position in the range, said range having a compartment for the service wires into which compartment the supply ends of said bus bars project, and said switch board being readily releasable from said holding means to permit the removal of the switch board from the range.

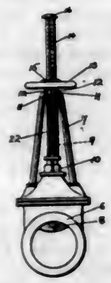
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1,692,066. WATER COOLER. ARTHUR L. WASHBURNE, Los Angeles, Calif. Filed Oct. 21, 1926. Serial No. 143,220. 10 Claims. (Cl. 62—91.)



1. A water cooler comprising an olla and a bottle supported on the olla, a sealing ring for sealing the joint between the two against the admission of air, a port in the ring, and means for filtering air passing inwardly of the port.

1,692,067. GATE VALVE. RICHARD WELSH, Los Angeles, Calif. Filed Aug. 22, 1927. Serial No. 214,672. 2 Claims. (Cl. 251—55.)



1. In combination with a gate valve having a valve member and operating screw for moving said valve member, a screw wheel on said operating screw for raising and lowering it to open and close said valve member, of a sleeve guard upon said wheel to receive the end of said screw as it moves through said screw wheel, a cap for said sleeve guard, a yoke supporting said screw wheel in operating position, and guard members around said screw within said yoke, said guard members being separable and adjustable as to length whereby to be applied to said screw, within said yoke to protect said screw from dirt.

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1,692,068. MULTIPOLE MULTIBRANCH ELECTRIC SWITCH. ARCHIE REXALD WOLFE, Summit, N. J. Filed Apr. 3, 1925. Serial No. 20,541. 5 Claims. (Cl. 200—6.)

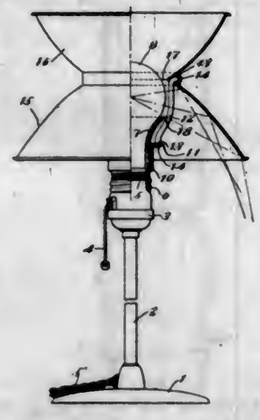


5. In a multipole multibranch switch, comprising a base, an end plate mounted on said base, a central vertical support mounted on said base, alternate washer shaped conducting blades and insulating bushings surrounding said support, a second face plate, a plurality of columns of receptor contacts radially arranged about said center column and mounted between said face plates, terminals therefor, and means whereby any number of said columns of receptor contacts are moved radially to make contact with said distributing column.

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1,692,069. LAMP. BUTLER AMES, Lowell, Mass. Filed June 19, 1926. Serial No. 117,006. 4 Claims. (Cl. 240—81.)

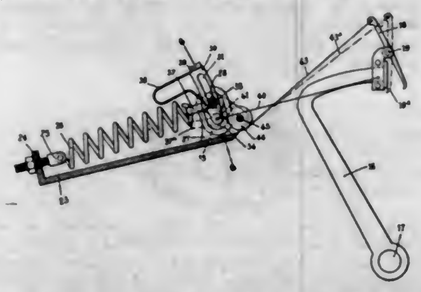
1. A lamp comprising a support, a source of light mounted on said support, a double reflector cooperating with said source of light, and comprising co-axial conic reflecting surfaces directed in opposite directions and intersecting along a circle of a diameter less than that of the mouths of either surface and a calyx carried by said support and surrounding the lower end of said source of light whereby all direct rays of light downward are cut off, said source of



light being so located that the majority of the rays from said source are thrown against said reflectors and diverted substantially upwardly or downwardly.

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1,692,070. CONTROL MEANS FOR CLUTCHES, BRAKES, AND THE LIKE. FRANCIS ATHIMON, Paris, France. Filed Aug. 4, 1925, Serial No. 48,149, and in France Aug. 14, 1924. 5 Claims. (Cl. 74—81.)

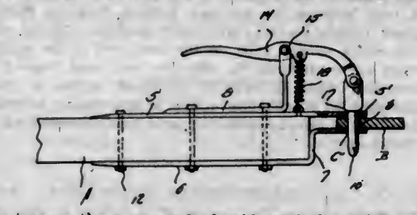


1. In combination with a spring controlled mechanism a control member operatively connected with said mechanism and adapted to be actuated by the operator, a stationary frame provided with two trunnions in line with one another, a forked member operatively connected with said control member and the branches whereof are adapted to slide on and pivot about said trunnions, an intermediate branch provided on said forked holder, an elongated longitudinal opening in said intermediate branch, a rolling member contacting with the side edges of said opening and adapted to move thereon, a pin extending axially through said rolling member, a spring attached to said pin, means for normally maintaining said spring in the deformed state and said pin in alignment with said trunnions and means adapted to be actuated by the operator and attached to said pin for moving said rolling member within said opening.

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1,692,071. TRAILER HITCH. THOMAS W. AUSTIN and MONROE F. SWINDLE, Chandler, Ariz. Filed Apr. 12, 1927. Serial No. 183,101. 1 Claim. (Cl. 280—33.15.)

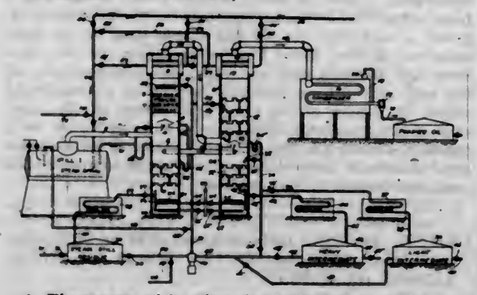
In a hitch for connecting the tongue of a trailer to a coupling plate that extends from the rear end of an automobile, a pair of longitudinally extending metallic straps disposed upon the top and bottom sides of the tongue at the forward end thereof, the outer ends of the straps projecting beyond the forward end of the tongue, the projecting end of the lower strap being bent upwardly for abutting engagement with the forward end of the tongue and then disposed laterally so as to be in slightly spaced parallel relation with respect to the projecting end of the upper strap, the coupling plate being adapted for disposition between the parallel spaced projecting ends of the straps, said ends and the coupling plate being formed with registering openings, an additional strap arranged on the uppermost strap, securing bolts extending through the straps and the tongue, the forward end of the third strap being disposed upwardly and arranged inwardly of the forward end of



the tongue, the upper end of said vertical portion of the third strap being bifurcated, a thumb lever pivotally supported intermediate its ends between the furcations, the forward end of the lever being disposed downwardly, a coupling pin adapted for disposition through the registering openings in the straps and coupling plate, the upper portion of the pin being enlarged and pivotally secured to the depending forward end of the lever, and a retractile coil spring secured at one end to the forward end portion of the pivoted lever and at its opposite end to the adjacent portion of the upper strap.

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1,692,072. PROCESS AND APPARATUS FOR FRACTIONATING HYDROCARBON OILS. JOHN C. BLACK, Destrehan, La. Filed Feb. 2, 1924. Serial No. 690,207. 20 Claims. (Cl. 196—94.)



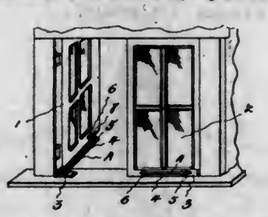
1. The process of fractionating hydrocarbons which comprises distilling the same and supplying fresh hydrocarbons to the still to replace the vaporized portions, partially condensing the vapors, passing the condensate to a separate still, redistilling a portion of the condensate and partially condensing the vapors by heat exchange with the fresh hydrocarbon supply to the still and finally condensing the residual vapors.

20. An apparatus for the separation of hydrocarbon vapors comprising fractionating towers, connected in series, means for passing vapors from one tower to the other, means for withdrawing liquid from said towers, means for distilling said withdrawn liquid, means for conducting vapors of an intermediate boiling range from said distilling means, and means for introducing said vapors into the first of said fractionating towers.

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1,692,073. CASEMENT-WINDOW OPERATOR. REINHOLD F. BRENNER, New Haven, Conn. Filed Jan. 23, 1928. Serial No. 248,767. 2 Claims. (Cl. 268—119.)

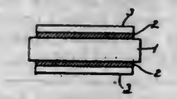
1. An operating device of the class described rendered operative for windows moving in several or opposite directions by location of the device, said device having a body or base, a pivoted arm or outer member supported by and swinging from said base, a rod or inner member slidably mounted with relation to said arm, a pivoted bracket car-



ried at the outer end of said rod and means operative from either side of said base whereby operation of said arm is effected.

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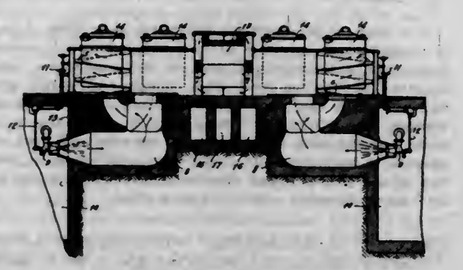
1,692,074. OSCILLATION GENERATOR. WILLIAM H. BURTIS, Plainfield, N. J. Filed Apr. 21, 1927. Serial No. 185,661. 6 Claims. (Cl. 171—327.)



1. A piezo electric crystal upon the surface of which is incorporated a silicate binder and a powdered metal forming the electrode for the crystal.

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1,692,075. HIGH-DUTY PETROLEUM STOVE. ARNALDO CARPINETI, Buenos Aires, Argentina. Filed Jan. 2, 1926, Serial No. 79,059, and in Argentina June, 1925. 1 Claim. (Cl. 126—44.)



A high duty petroleum cooker comprising a base plate, said cooker being provided with combustion chambers below said base plate, oil burners arranged to direct a flame inwardly toward the middle of said cooker, within said combustion chambers, a water heater associated with each combustion chamber superposed with respect to a flue communicating with said combustion chamber, branch flues of approximately equal length communicating with said combustion chamber and symmetrically arranged with respect to said water heater, a well associated with each branch flue comprising an annular cylindrical jacket having a spiral baffle between the walls thereof and being in communication with said branch flues, said wells being each adapted to receive a cooking kettle, a jacketed oven symmetrically arranged with respect to said combustion chambers, a hot plate above the oven, an auxiliary combustion chamber directly beneath said hot plate, an oil burner for delivering heated combustion products to said chamber, the latter communicating with the space within said oven jacket, a fuel tank in conductive relation to the heat generated within said auxiliary combustion chamber and the heat of said cooker conserved by the specified disposition of the other sources of heat, and exhaust flues located directly beneath said oven for carrying away the spent combustion products.

1,692,076. CLOTHESPIN. JAMES O. CARROLL, Pittsfield, Ill., assignor of fifty-one per cent to Charles P. Carroll, Kansas City, Mo. Filed Feb. 7, 1928. Serial No. 252,611. 4 Claims. (Cl. 24—137.)



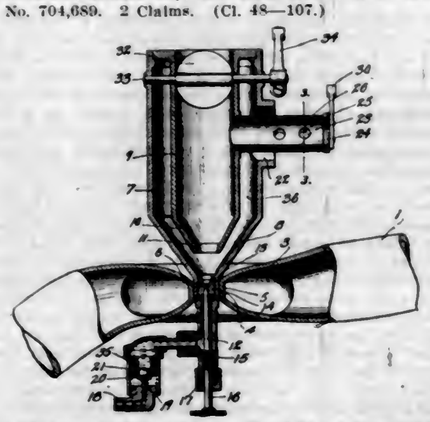
4. A clothes pin comprising a body having a solid head and depending arms spaced from each other transversely of the head, prongs spaced from the upper portions of said arms and together with the arms adapted to grip a clothes line and suspend the clothes pin from the clothes line, and a tongue pivotally mounted between the arms and when disposed longitudinally between the arms adapted to clamp clothes between the arms and tongue.

1,692,077. RADIAL STAY TONGS. ARTHUR A. COCHRAN, Chanute, Kans. Filed Jan. 23, 1926. Serial No. 83,295. 2 Claims. (Cl. 294—37.)



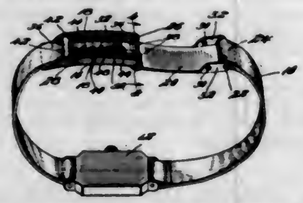
1. A tool of the character described, comprising a pair of elongated substantially parallel shank members, means connecting said members, one of said members being mounted for rotation on its axis, obliquely extending jaws on one end of said shank members, one of said jaws extending at a slightly different angle to the axis of its shank member than said other jaw, whereby said jaws are adapted to be moved into overlapping relation upon rotation of one of said shank members, and means for moving said shank members relative to each other.

1,692,078. CARBURETING VAPORIZER. ARTHUR COLEMAN, Kansas City, Mo. Filed Apr. 7, 1924. Serial No. 704,689. 2 Claims. (Cl. 48—107.)



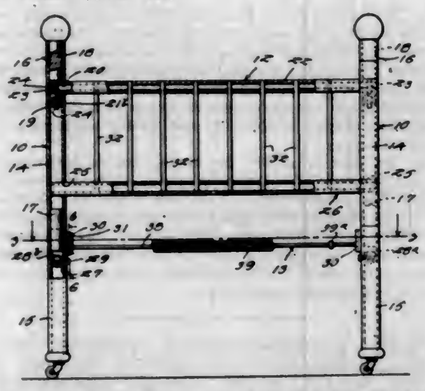
1. A carbureting vaporizer comprising a tubular casing having a conical lower end terminating in a valve seat receiving collar, a pipe for supplying hydrocarbon fluid to the casing provided with a valve seat receivable in the collar and having a port opening connecting the pipe with the casing, means for supplying heat to the collar and through it to the valve seat to cause hydrocarbon fluid to become vaporized in its passage through the valve seat, a needle valve for controlling the effective port area of said port opening, a tubular mixing chamber having a wall parallel with the wall of the casing and closing off the upper end of the casing, the mixing chamber having a constricted lower end with a central opening in a line with the opening surrounded by the valve seat, the casing having an air inlet port between its top and bottom, and the mixing chamber having an air inlet port between its top and bottom and a sleeved valve on the inlet port of the mixing chamber for controlling the effective port area thereof in combination with an exhaust manifold having a ring-shaped seat to receive the collar of the casing whereby heat from the exhaust manifold will be communicated to the valve seat.

1,692,079. AUTOMATIC STRAP TIGHTENER. JOHN D'ALO, Providence, R. I., assignor to Arthur F. Bernard, Providence, R. I. Filed Jan. 19, 1927. Serial No. 162,179. 7 Claims. (Cl. 24—71.)



7. A strap tightener adapted to be interposed in a strap for expanding and contracting the length of the strap comprising, a back connector section having a base and a front connector section having their inner ends hinged together, a connection for one end of said strap on the front connector section, and a flexible connection for the other strap end mounted over and expansible longitudinally of the base of the back connector section to automatically adjust the length of the strap, and means on the outer ends of said connector sections to detachably secure them together whereby the length of the strap may be increased when said front connector section is pivoted on said back connector section to open position.

1,692,080. FOLDING BED. GILBERT OTIS DE HASS, Vandalia, Mo. Filed Nov. 27, 1926. Serial No. 151,148. 1 Claim. (Cl. 5—99.)



In a bed, corner posts, collapsible side and end structures connecting said corner posts and maintaining the corner post in properly spaced relation, the corner posts



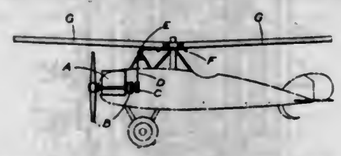
of each end pair being provided upon opposed faces with U-shaped brackets, shafts fitting between the arms of the brackets, opposing inner faces of the arms of the brackets being grooved, the shafts having heads extending into the grooves and a spring structure connecting said shafts, one of said shafts having means for connecting a lever thereto whereby the shaft may be rotated, one of the heads of said shaft and said bracket having aligning openings for the reception of a lock pin whereby the shaft may be held in rotatably adjusted positions, said collapsible end structures comprising detachable connecting means by which the upper ends of the posts are held in spaced relation and the shaft heads when positioned in the grooved brackets serving to hold the lower ends of the legs in spaced relation.

1,692,081. AIRCRAFT WITH ROTATIVE WINGS. JUAN DE LA CIERVA, Madrid, Spain. Filed Nov. 10, 1926, Serial No. 147,569, and in Great Britain Nov. 24, 1925. 7 Claims. (Cl. 244—19.)



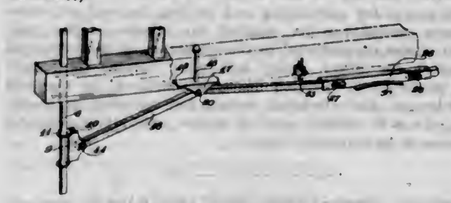
1. In aircraft in which the supporting surfaces are constituted by freely rotative wings driven by the relative air flow in flight and hinge-jointed to the axis of rotation, a wing formation in which the chord is relatively small in the part nearest the root, increases to a maximum in the outer half of the wing's length, and thence again decreases towards the tip.

1,692,082. AIRCRAFT WITH ROTATIVE WINGS. JUAN DE LA CIERVA, Madrid, Spain. Filed Nov. 10, 1926, Serial No. 147,571, and in Great Britain Nov. 24, 1925. 8 Claims. (Cl. 244—19.)



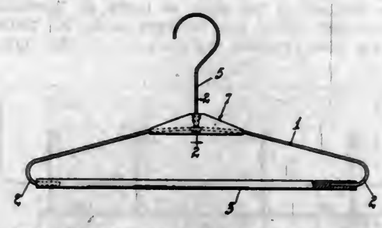
1. In aircraft, the combination with a plurality of freely rotative supporting wings hinge-jointed to the axis of rotation, of a power transmission device temporarily connecting the wings to the prime mover of the air craft to set said wings initially rotating, said device thereupon becoming automatically inoperative.

1,692,083. CRIB. ABRAHAM G. FELDMAN, Chicago, Ill. Filed Dec. 24, 1925. Serial No. 77,569. 3 Claims. (Cl. 5—100.)



1. The combination with a crib having vertical rods and a side adapted to be raised and lowered along said rods, of arched levers rockably suspended from said side, brake shoes connected to the outer portions of said levers and adapted for braking engagement with said rods, a connecting member receiving the inner portions of said levers, and straps straddling said brake shoes and perforated to receive said rods to guide and retain said brake shoes in working relation to said rods.

1,692,084. CLOTHES HANGER. CHARLES S. GERARD, Long Beach, Calif. Filed Nov. 7, 1927. Serial No. 231,512. 1 Claim. (Cl. 223—62.)



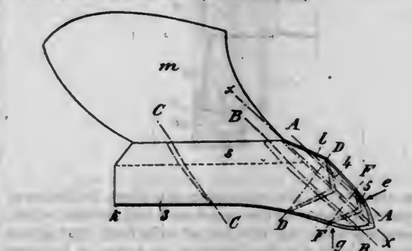
A clothes hanger comprising a wire frame, a loop formed in said wire frame, a hook extending through the loop, a head on the bottom of said hook adapted to bear against the loop, and a metal plate bent around the wire frame fitted closely about the hook.

1,692,085. COLLAPSIBLE LUGGAGE CARRYING ATTACHMENT FOR USE WITH MOTOR AND OTHER VEHICLES. DARRELL WALLACE ISAACS, Redfern, New South Wales, Australia. Filed Dec. 28, 1923, Serial No. 683,248, and in Australia May 22, 1923. 4 Claims. (Cl. 224—29.)



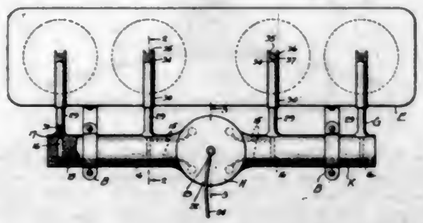
1. A collapsible luggage carrying device particularly adapted for use on the running boards of motor cars, comprising a plurality of brackets rigidly secured to the under surface of the running board and projecting laterally therefrom and each terminating in a connecting portion, a plurality of vertical members having the lower ends pivoted to the connecting portions of the brackets, a pair of horizontal members arranged on opposite sides of the vertical members, one of the horizontal members being pivoted directly to each of the vertical members and the other of the horizontal members being pivoted in spaced relation to the other sides of the vertical members so as to permit the horizontal and vertical members being collapsed to lie on the brackets between the connecting portions thereof and edge of the running board and flush with the upper surface of the running board, and means for locking the device in its fully extended position.

1,692,086. SELF-SHARPENING PLOWSHARE. JENS PETER HENRIK JAKOBSEN, Odense, Denmark. Filed Nov. 19, 1926, Serial No. 149,476, and in Denmark Oct. 30, 1926. 2 Claims. (Cl. 97—125.)



1. A self-sharpening plow share having a landside edge formed of one-layer material, the plow share in the direction of plowing, increasing in thickness in the rear direction, the horizontal section of the landside edge decreasing in thickness in the direction of plowing.

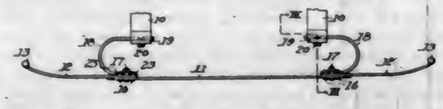
1,692,087. CURRENT-CONDUCTING APPARATUS. FRANCIS H. MATTHEW, MARTIN A. BROADBERR, and FREDERICK C. B. VOSGERAU, Venice, Calif.; said Vosgeran assignor of his right to Lloyd H. Barfknecht, Venice, Calif. Filed July 16, 1924, Serial No. 726,365. Renewed Mar. 12, 1928. 10 Claims. (Cl. 123—143.)



1. A current conducting apparatus for the ignition systems of engines comprising a solid conduit of insulating material, a housing of insulating material formed integral with the conduit and adapted for receiving a spark coil and a distributor, conductors connected to the distributor and embedded in the conduit, and connectors detachably associated with the conduit and adapted for detachable connection to spark plugs for conducting current from the conductors to the spark plugs.

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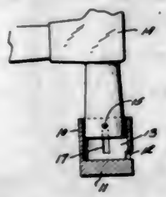
1,692,088. AUTOMOBILE BUMPER. WILLIAM R. MCGOWEN, McKees Rocks, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed May 24, 1928. Serial No. 280,186. 11 Claims. (Cl. 293—55.)



1. Bumper structure comprising an intermediate impact section having recesses in one face thereof, end sections abutting the other face of the intermediate section, and bolts extending through the ends of the intermediate section and the inner ends of the end sections for securing them together, the said bolts having heads fitting within the said recesses, the recesses and the said heads being of non-circular contour to prevent turning of the bolts.

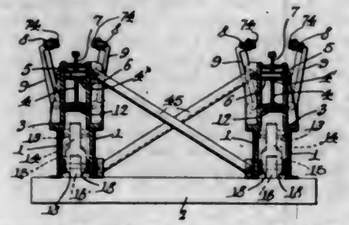
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1,692,089. CAP SHOOTER. MALCOLM E. MCPHAIL, Cohoes, N. Y. Filed Apr. 14, 1927. Serial No. 183,779. 1 Claim. (Cl. 46—46.)



A cap shooter of the character described including a cup-shaped body open at its upper end and having a slot communicating with the interior of said body just above the bottom thereof for the insertion of a cap, a hammer having a handle and a head at right angles to the handle at all times disposed within said cup-shaped body, and a transverse member extending through the hammer head, the cup-shaped body having its side walls vertically slotted and the ends of said member extending into said slots.

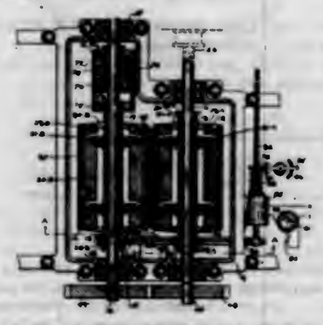
1,692,090. TRACK BRAKE. WALTER MINER, Seattle, Wash. Filed Apr. 16, 1927. Serial No. 184,392. 8 Claims. (Cl. 188—62.)



1. The combination with a track rail and a downwardly movable support therefor, of a track brake including elongated shoes at opposite sides of the rail, means operated by a car approaching the brake for shifting the shoes toward each other and for operatively connecting the shoes to the rail support, said support when depressed under the weight of a car thereon, being adapted to press the shoes toward each other when operatively connected to the rail support.

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1,692,091. AUTOMATIC SPEED-CHANGING POWER TRANSMISSION DEVICE. HOWARD J. MURRAY, Brooklyn, N. Y. Refiled for abandoned application Serial No. 440,039, filed Jan. 26, 1921. This application filed Feb. 15, 1927. Serial No. 168,384. 14 Claims. (Cl. 64—8.)



1. In a device of the class described, the combination of a pair of power transmitting pulleys mounted for rotary movement and connected to a source of power, frictional means for transmitting power from one to the other, means for increasing or decreasing the operating diameters of the said pulleys, said pulleys including a plurality of segmental parts, an actuating means for collectively moving the said segmental parts, a resilient control means for positioning and moving the said actuating means, mechanism for varying the tension of the resilient means proportional to the resistance of the connected load on the driven pulley, means for varying the supply of power to the driving pulley proportional to the said resistance, and electrical means for opposing or assisting the said resilient control means, said electric control means to be manually varied.

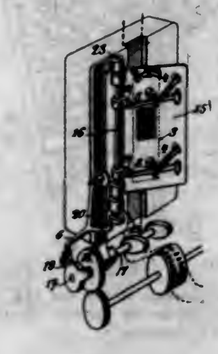
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1,692,092. CINEMATOGRAPHIC APPARATUS. ETIENNE OEHMICHEN, Valentigney, France. Filed Dec. 31, 1926, Serial No. 158,297, and in France Nov. 25, 1926. 2 Claims. (Cl. 88—17.)

1. In a cinematographic apparatus utilizing a flexible film, the combination of a guideway adapted to guide the said film, a pushing element adapted to maintain the said film in the said guideway and controlling means for periodically pressing and raising the said pushing element, the period of pressure of the said element corresponding



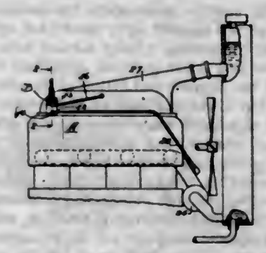
to the stopping of the said film and the period of raising corresponding to the displacement of the said film, the said controlling means being connected with the mechanism of the apparatus, a second pushing element adapted



to exert a constant and slight pressure on the said film, a movable door adapted to close the said guideway and to support the first and the second pushing element and also the said controlling means.

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1,692,093. VALVE FITTING FOR COMMUNICATING ENGINE-CYLINDER PRESSURES. EDWARD A. ROCKWELL, Long Island City, N. Y., assignor to Stewart-Warner Speedometer Corporation, a Corporation of Virginia. Filed Feb. 25, 1926, Serial No. 90,596. Renewed Apr. 14, 1928. 4 Claims. (Cl. 123—198.)

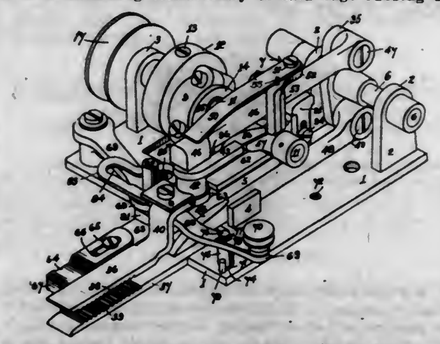


1. A valve fitting and fluid connection for regulating communication of engine cylinder pressures, having a substantial portion of its body formed with a plurality of heat-radiating fins and the like, forming intervening channels for water circulation, and a sleeve and of the like encompassing said fin-bearing portions of the fitting for exteriorly closing the otherwise open sides of the channels, said sleeve having inlet and outlet connections for coupling to a water circulating system.

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1,692,094. ATTACHMENT FOR SEWING MACHINES. ANDREW SAWERS, Leeds, England. Filed Dec. 24, 1925, Serial No. 77,571, and in Great Britain Mar. 24, 1925. 7 Claims. (Cl. 112—2.)

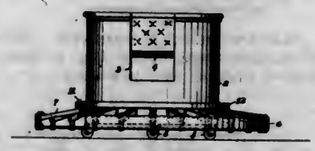
7. In an attachment for sewing machines of the character described, the combination of a pair of superposed edge rubbing bars, having oppositely opposed serrated surfaces, means for reciprocating said bars adapted to be operated by a moving part of the sewing machine, one of said bars comprising two pivotally connected sections, and a lever extending transversely of said edge rubbing bars



and adapted to adjust the serrated portion of the upper bar to a position substantially at right angles to the length of said bar.

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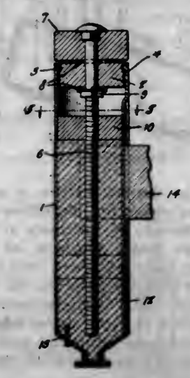
1,692,095. BUFFER OR BUMPER FOR AMUSEMENT VEHICLES OR CARS. DUDLEY HUMPHREY SCOTT, Cleveland, Ohio, assignor to The Humphrey Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 14, 1928. Serial No. 246,661. 5 Claims. (Cl. 293—57.)



2. An amusement vehicle or car of the type described, having a buffer ring supported in spaced relation to the car body by means of a series of radially extending bands made of rubber.

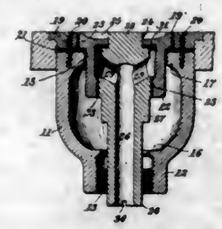
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1,692,096. PASTE TUBE. FLOYD A. SCOTT, Somers Point, N. J. Filed Mar. 11, 1927. Serial No. 174,591. 2 Claims. (Cl. 221—79.)



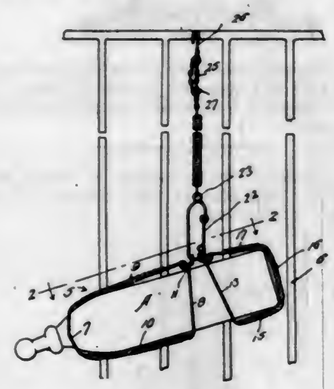
1. A tube of the class described having a closure in its rear end, a screw shaft having an unthreaded portion rotatably mounted in the closure with a threaded portion located in the tube, a follower in the tube having a threaded hole therein engaged by the shaft, means for preventing rotary movement of the follower, a handle member on the outer end of the shaft and a pin in the front end of the tube and adapted to be projected by the follower when the follower nears the end of the tube, for indicating that the tube is empty.

1,692,097. FLOOR OUTLET. EUGENE A. STAPLES, Brooklyn, N. Y. Filed Dec. 6, 1920. Serial No. 428,809. 6 Claims. (Cl. 247—15.)



1. A device of the character described comprising a casing having an opening in the top thereof and having a conductor wire passage, a hollow tubular conduit-member having a longitudinal passage therein for electrical conductors, a closed end portion, and outlets in the sides thereof adjacent to said closed end portion, and means for securing said conduit-member within said opening in a plurality of axial positions; the closed end portion of said conduit-member, when said conduit-member is adjusted to one of its positions, serving to seal the opening in the top of said casing, and in another of said positions to bring the passage in said conduit-member into communication with the interior of said casing, substantially as specified.

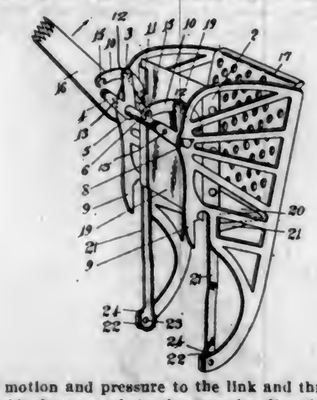
1,692,098. NURSING-BOTTLE HOLDER. MAURICE S. SULLIVAN, Meriden, Conn. Filed Aug. 4, 1926. Serial No. 127,054. 2 Claims. (Cl. 248—65.)



1. In a holder for nursing bottles, a pair of separate frame members constructed for disposition upon the bottle at opposite ends thereof, eye members at the inner ends of said independent frame members, an elongated link independent of the frame members, and slidable through the aforementioned eyes for drawing the frame members together toward each other upon the bottle when the link is swung to a position at right angles with respect to its initial position, and means associated with one end of the link for facilitating the suspension of the bottle from a support.

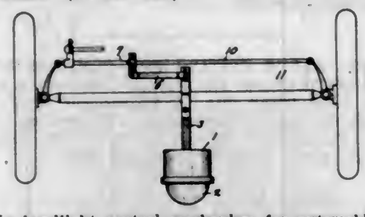
1,692,099. MOP WRINGER. HUGH BOGART TARBOX, Toronto, Ontario, Canada. Filed Dec. 9, 1927. Serial No. 238,789. 3 Claims. (Cl. 15—261.)

1. A mop wringer comprising a stationary frame, a movable frame, and a lever mechanism composed of a plurality of arms unitedly rotatable in clockwise or counter-clockwise direction, a link interposed between the arms and the movable frame alternately engaged and released by each of the arms in succession as they rotate, and means for actuating the arms and imparting in one direction



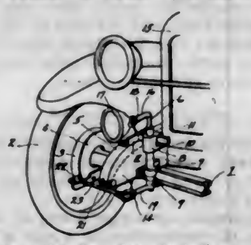
forward motion and pressure to the link and through it to the movable frame, and, in the opposite direction, reverse motion and release of pressure.

1,692,100. AUTOMOBILE HEADLIGHT-OPERATING MECHANISM. SETH L. TUCKER and FLOYD C. TUCKER, Hornell, N. Y. Filed Apr. 2, 1927. Serial No. 180,544. 3 Claims. (Cl. 240—62.)



1. In headlight control mechanism for automobiles, an attaching member for support by a fixed part of an automobile, a bracket comprising a body formed with a socket and having upper and lower portions extending therefrom, a bolt carried by the support and fitting at its ends through the said upper and lower portions of the bracket whereby to support the bracket for angular movement with respect to the attaching member, one of said portions being extended, means connected therewith for connection with a part of the steering mechanism of the automobile, a headlight supporting member comprising a shank, a head at one end of the shank removably fitted in said socket, the wall of the socket being slotted to accommodate the said shank, and means upon the shank for the support of a headlight.

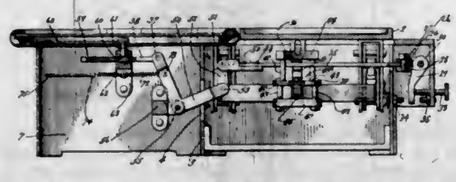
1,692,101. DIRIGIBLE-SPOTLIGHT MOUNTING. WILLIAM V. VAN ETTEN, Everett, Wash. Filed Nov. 3, 1925. Serial No. 66,484. 1 Claim. (Cl. 240—62.)



In a vehicle of the class described, the combination with the frame parts of a vehicle and a cover plate for a brake drum of one of the steering wheels of the vehicle, of a pair of vertically alined bearings secured to the frame parts; the upper of said bearings being horizontally adjustable on its support, a sleeve vertically adjustable in said bearings, means for retaining the sleeve at different positions of adjustment, a spotlight mounting shaft rotatable in said sleeve, a spotlight mounted on the upper end of the shaft, a forwardly directed arm fixed to the lower end of the shaft, a bar fixed to the drum cover plate and a connecting link having toggle connections at its ends with the bar and with the arm to cause the spotlight to be directed in accordance with the direction of movement of the vehicle.

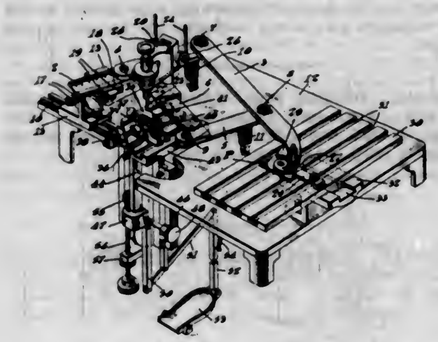


1,692,102. WEIGHING SCALE, LEAF-SPRING TYPE. MATHIAS J. WEBER, Chicago, Ill., assignor to Healthometer Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1926. Serial No. 113,835. 11 Claims. (Cl. 265—68.)



1. In a device of the class described the combination of a substantially shallow enclosing casing, a platform closing the top thereof, a registering dial lying substantially in the plane of the platform, a plurality of horizontally disposed levers pivotally mounted within the casing, a horizontally disposed lever-spring mounted within the casing, means interconnecting the inner ends of the horizontally disposed levers with the lever-spring, registering mechanism for the dial mounted in the casing, and means connecting the registering mechanism with the lever-spring.

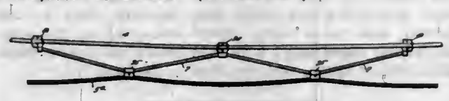
1,692,103. ENGRAVING MACHINE. CHARLES F. WILLIAMS, Stoneham, Mass. Filed May 7, 1924. Serial No. 711,594. 6 Claims. (Cl. 90—13.1.)



1. In an engraving machine, the combination of a pantograph mechanism comprising a series of arms pivoted together and all located in substantially the same plane, a holder in which one of said arms is mounted for longitudinal adjustment, means supporting said holder for pivotal movement about a fixed axis, a tool head adjustably mounted on another of said arms, a tracer supported by a third arm of said pantograph, castors carried by certain of said arms, a table on which said castors run, said tool head including means for holding and driving a rotary cutter, and a work support operatively associated with said table, said adjustable arm and said tool head supporting arm being correspondingly graduated.

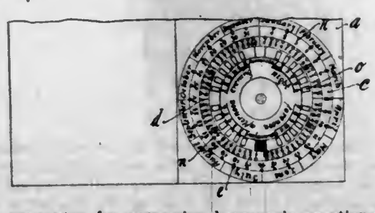


1,692,104. CABLE SUPPORT. HENRY B. P. WRENN, Cleveland, Ohio; O. P. Moon, administrator of Henry B. P. Wrenn, deceased, assignor to Arthur M. Hahn, Aurora Hills, Va. Filed Nov. 28, 1924. Serial No. 752,608. 15 Claims. (Cl. 191—41.)



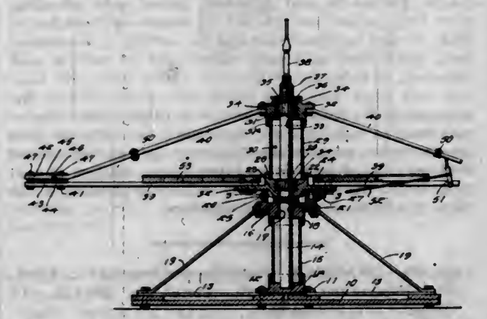
1. The combination with an overhead catenary system, of a contact wire adapted to be supported from said system, and a continuous lacing connecting said wire to said system, said lacing being composed of a plurality of sections.

1,692,105. HOROSCOPIC INTERPRETATION APPARATUS FOR HOURS AND DAYS. ALFRED ABROMEIT, Rheinhausen, Germany. Filed Jan. 22, 1927, Serial No. 162,892, and in Germany Apr. 6, 1926. 1 Claim. (Cl. 35—12.)



An apparatus for answering horoscopic questions, comprising in combination a base plate on both surfaces of which the names of the months are printed near the edge, said base plate having an inner circle comprising arc-shaped cut-out portions, a disc rotatably mounted on one side of said base plate and having value signs printed on the inner side registering with said inner circle of said base plate, thirty one marks on the edge of the outer side of said disc, each mark indicating one day, a disc rotatably fixed on the other side of said base plate and having arc-shaped cut-out portions in a circle registering with said inner circle of said base plate, thirty one marks near the edge of said disc to indicate the date of the actual day, and a disc rotatably mounted on said day disc and having radial slots in a circle which registers with said inner circle of said base plate and designed to indicate the actual hour, and marks on the edge of said outer disc and designed to indicate the birth year.

1,692,106. MERRY-GO-ROUND. JOHNNY G. C. AKERS, Wallace, Nebr. Filed Dec. 11, 1926. Serial No. 154,194. 5 Claims. (Cl. 272—33.)

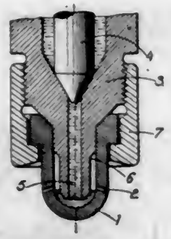


1. In a merry-go-round, a base structure, a shaft arising therefrom, a rotor structure engaged with the shaft and including upper and lower castings, a tube surrounding

the shaft and maintaining the upper and lower castings in spaced relation and against relative rotation, arms extending outwardly from the lower castings, braces extending outwardly and downwardly from the upper casting and secured to said arms at the outer ends thereof and seats connecting the outer ends of said arms to one another, said seats being rigidly connected to the arms and having engagement with said braces preventing oscillation of the braces with relation to the arm.

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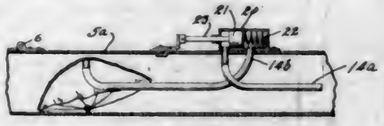
1,692,107. DIRECT-INJECTION FUEL ATOMIZER FOR INTERNAL-COMBUSTION ENGINES. VADIME ARCHAOULOFF, Boulogne-sur-Seine, France. Filed Aug. 24, 1925, Serial No. 52,236, and in France Sept. 17, 1924. 2 Claims. (Cl. 123—32.)



1. In direct injection atomizers for internal combustion engines, the combination, a valve controlled injector and a cup-like atomizer connected thereto and having spraying orifices positioned below the outlet of the injector so as to form a seal joint and an air pocket between the atomizer and the injector when the injector is shut off, substantially as and for the purposes set forth.

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1,692,108. AEROPLANE SAFETY DEVICE. HERMANN BERGMANN, Detroit, Mich. Filed Aug. 22, 1927. Serial No. 214,503. 1 Claim. (Cl. 244—21.)
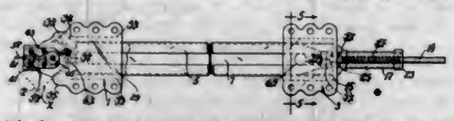


In an aeroplane safety device, the combination of an aeroplane having a body and wings, said body and wings having openings in their upper sides, covers on said openings, means for tending to open said covers, catches for holding said covers in closed position, parachutes in and secured to said body and wings under said openings, cylinders on said aeroplane one adjacent to each of said covers, pistons in said cylinders, piston rods extending from said pistons and adapted to release said catches, a tank on said aeroplane adapted to contain a compressed fluid, pipes from said tank to one end of each of said cylinders, a valve to control the outlet from said tank into said pipes, and other pipes from said cylinders terminating under said parachutes, said other pipes being so connected to said cylinder that when said pistons have been moved a predetermined distance by the compressed fluid the ends of these other pipes become exposed to said fluid so that the latter exhausts under said parachutes and ejects the latter through said openings.

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1,692,109. DRAWBAR. JOHN ROBERT BLACKHALL, Joliet, Ill. Filed June 13, 1927. Serial No. 198,410. 10 Claims. (Cl. 213—188.)

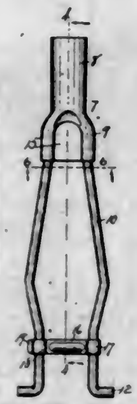
1. The drawbar construction for vehicles comprising guide means located on a vehicle, a drawbar telescoping said guide means, resilient means located rearwardly on said guide means adapted to be engaged by the rear end of said drawbar, a movable pin located forwardly on said guide means and means for automatically engaging said pin



with forward and rearward holes in the drawbar when said holes are suitably positioned beneath the pin.

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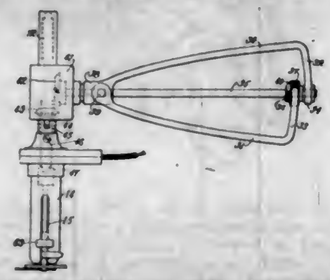
1,692,110. HANDLE CONNECTER FOR IMPLEMENTS. HENRY CAVE, Hartford, and HORACE H. FITZGERALD, Berlin, Conn., assignors to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 2, 1925. Serial No. 6,237. 5 Claims. (Cl. 306—25.)



1. A handle attachment including a socket piece formed of a single piece of material with a socket at one end for the reception of a handle, said socket being closed at the bottom thereof except for spaced openings extending from the socket lengthwise of the socket piece and out at the end thereof, and a connecter comprising arms located within said openings and a bow engaging the bottom of said socket.

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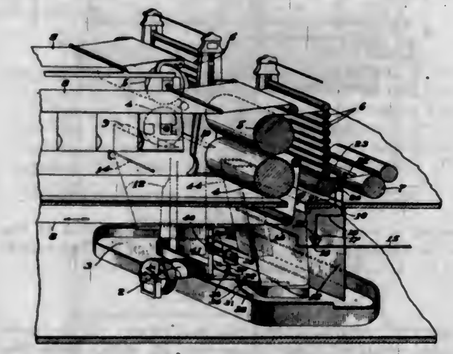
1,692,111. DEVICE FOR WAVING AND CURLING HAIR. ALEXANDER CRAIG, London, England. Filed Dec. 3, 1927, Serial No. 237,553, and in Great Britain May 6, 1927. 14 Claims. (Cl. 132—36.)



1. Devices for waving and curling hair comprising a rod on which the hair is adapted to be coiled, means on the rod against which one end of the coil of hair on the rod is adapted to take, other means on the rod adapted to take against the other end of the said coil of hair, and means for causing the two last mentioned means to subject the coil of hair on the rod to pressure in a direction parallel to the axis of the rod, for the purposes set forth.



1,692,112. METHOD AND APPARATUS FOR HANDLING BROKE. HERVEY G. CRAM, Millinocket, Me., assignor to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Feb. 18, 1927. Serial No. 169,360. 11 Claims. (Cl. 92—38.)



1. The combination of a paper machine, a beater, means for conducting broke from said machine to the beater, means for wetting the broke on its way to the beater, and mechanism for automatically controlling the operation of said wetting means in accordance with the delivery of broke to the beater.

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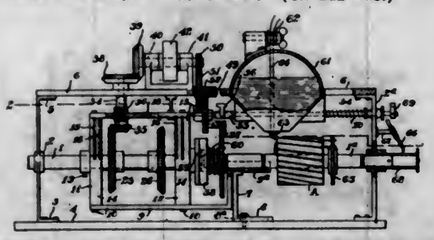
1,692,113. DRAFT EQUALIZER. GEORGE WESLEY CULP, Magrath, Alberta, Canada. Filed Aug. 26, 1926. Serial No. 131,754. 1 Claim. (Cl. 278—3.)



A draft equalizer comprising in combination, a rigid bracket, and an equalizer bar extending transversely through said bracket and bolted therein, a pulley rotatably mounted in said bracket behind the bar, a floating bracket member, a pulley rotatably mounted on each end thereof, the sides of the rigid bracket being tapered outwardly and bolted together at their extremity, a chain anchored to the bolt securing the sides of the rigid bracket together, said chain travelling over and under one of the pulleys in the floating bracket and under and over the rear pulley in the rigid bracket behind the equalizer bar, an auxiliary pulley rotatably associated with the outward extremity of the rigid bracket.

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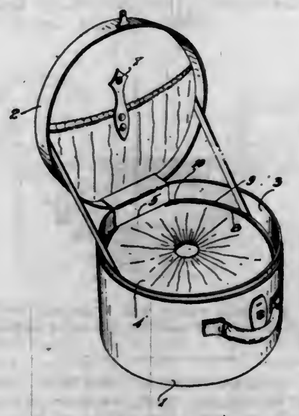
1,692,114. ELECTRIC MOTOR-WINDING MACHINE. JAMES K. DARBY, Dayton, Ohio, assignor of one-third o Lawrence C. Stoltz, Dayton, Ohio. Filed Dec. 15, 1926. Serial No. 155,038. 17 Claims. (Cl. 242—13.)



1. An apparatus of the character described including in combination, a container for liquid insulating material, means for moving part of an electric motor, axially and rotatably relative to said container, means for directing the wire of the motor through said liquid, and means for effecting winding of said part with said wire incident to said movements thereof.

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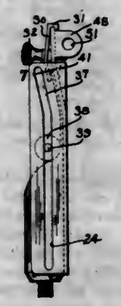
1,692,115. TRAVELING CASE. ABRAHAM GOLDSTEIN, New York, N. Y. Filed Apr. 30, 1927. Serial No. 187,742. 3 Claims. (Cl. 206—8.)



1. A traveling case having a peripheral wall, a normally flexible tray, and releasable means adjacent said peripheral wall for holding said tray stretched tight and supported by said wall.

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1,692,116. COLLAPSIBLE-TUBE HOLDER. HUBERT M. GREIST, New Haven, Conn. Filed June 16, 1924. Serial No. 720,270. 11 Claims. (Cl. 221—60.)



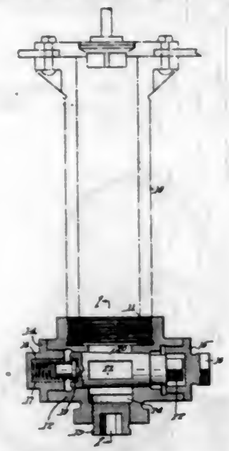
1. A tube holder or the like comprising a back-plate provided with side flanges, said plate being inclined forwardly adjacent its upper end to conform to the shape of the tube, and a clamping member securable to the plate adjacent the upper end thereof, and means to urge said clamping member toward said plate to clamp a tube therebetween.

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1,692,117. SAFETY OUTLET VALVE FOR TANK CARS. FREDERIC A. GURNEY, Worcester, Mass. Filed Aug. 22, 1927. Serial No. 214,567. 5 Claims. (Cl. 137—21.)

1. The combination with an outlet valve casing for a tank car, of a cap secured to the bottom of said casing and having an outlet plug, said cap having a transverse conical passage therethrough closely adjacent said plug,

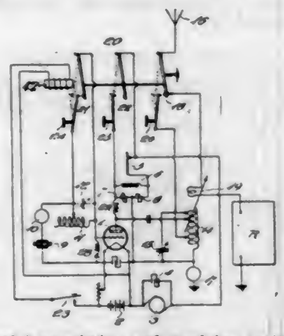
a conical valve located in said passage, a plug screwing into the side of the cap and having a recess, and a spring



projecting into said recess and engaging the large end of the conical valve for holding the valve against its seat.

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1,692,118. COMMUNICATION SYSTEM. MALCOLM P. HANSON, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed May 10, 1927. Serial No. 190,223. 5 Claims. (Cl. 250—13.)

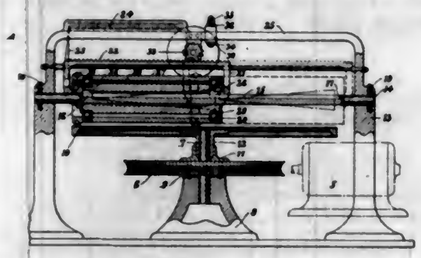


1. A signal transmission and receiving system comprising an antenna ground circuit, radio receiving apparatus, radio transmission apparatus including an electron tube oscillator and a piezo electric crystal control circuit connected with said electron tube oscillator, a switching system comprising a plurality of sections, keying means for controlling the operation of said switching system, one section of said switching system being arranged to detune said piezo electric crystal control circuit, another section of said switching system being arranged to modify the amplitude of oscillations sustained by said oscillator, and another section of said switching system being arranged to control the connections between said antenna ground circuit, said radio receiving apparatus and said radio transmission apparatus.

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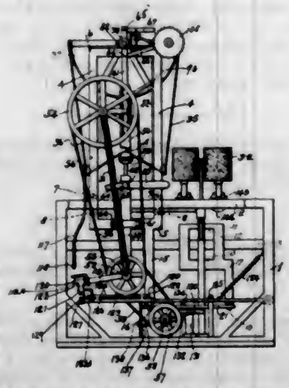
1,692,119. METHOD FOR MEASURING DISTANCE. HARVEY C. HAYES, Washington, D. C. Original application filed Jan. 31, 1922, Serial No. 533,092. Divided and this application filed Aug. 12, 1924. Serial No. 731,578. 3 Claims. (Cl. 177—386.)

1. The method of taking soundings which consists of imparting a succession of sound signals to the water to produce echoes from the sea bottom, directly activating one receiver at an instant simultaneous in time with the transmitted signal, activating a second receiver with the echoes of said signals, and adjusting the periodicity of said succession of signals while maintaining the duration of signal at constant length, to value such that the two receivers are activated simultaneously.



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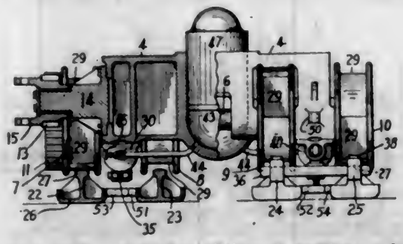
1,692,120. SHOE-POLISHING MACHINE. JACOB HOFFMAN, Memphis, Tenn. Filed Mar. 25, 1926. Serial No. 97,205. 22 Claims. (Cl. 15—30.)



2. In a shoe-polishing machine, the combination with means for polishing with a belt and independent means for polishing with brushes, of dual foot-rests, means for aligning said belt-means with one of said rests, and said brush-means with the other thereof, and means for shifting said aligning-means, to reverse the belt-means and brush-means with reference to said rests.

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1,692,121. TRUCK. GRANT HOLMES, Danville, Ill., assignor to The Marion Steam Shovel Company, Marion, Ohio, a Corporation of Ohio. Filed Aug. 6, 1923. Serial No. 655,880. 19 Claims. (Cl. 180—8.)

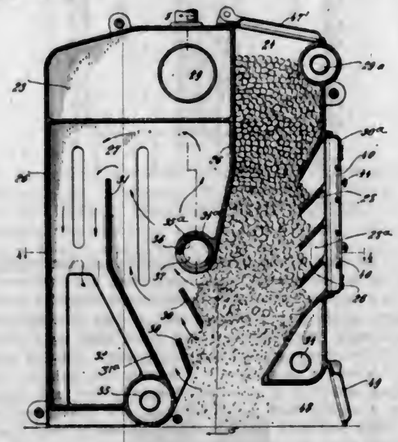


6. In a truck, a pair of parallel track members, a frame arranged above said members, wheels carried by said frame and adapted to travel on said track members, means for rotating said wheels, said wheels having means for alternately relieving said track members from the load, a lever pivotally connected at its ends with the respective track members, a cylinder, a piston mounted in said cylinder, a piston rod connecting said piston with said lever at a point between said track members, and means for supplying fluid under pressure to said cylinder.

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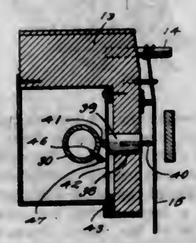
1,692,122. BOILER. FRANK B. HOWELL, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Original application filed Oct. 23, 1914, Serial No. 450,672. Renewed Mar. 8, 1921, Serial No. 450,672. Divided and this application filed Sept. 10, 1921. Serial No. 499,664. 6 Claims. (Cl. 122—223.)



1. A boiler of the character described comprising a fuel receptacle including a transverse wall member having a secondary air passage therein at the lower extremity thereof, and flues to the rear of said wall member communicating with said fuel receptacle below said transverse wall member and said secondary air passage; said wall member including a series of separated water-backed portions arranged in spaced relation to each other along said secondary air passage and extending below the same, and a series of air outlets intermediate said water-backed portions below said secondary air passage communicating with said secondary air passage for directing the secondary air downwardly between said water-backed portions adjacent the rear of the fuel mass in a series of jets transversely of the boiler, substantially as specified.

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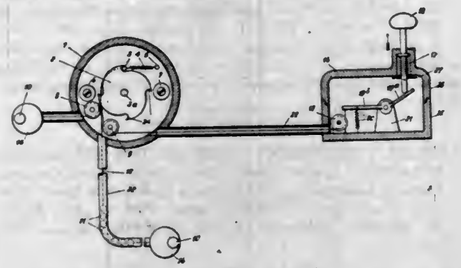
1,692,123. HARP. VADE HULL, Great Falls, Mont. Filed May 18, 1927. Serial No. 192,416. 8 Claims. (Cl. 84—264.)



6. In a harp, the combination with the tuning-pin carrying member and the strings connected therewith, of a block carried by said member adjacent each of said strings, yieldable means for normally maintaining the blocks out of contact with the strings, a rotatable shaft, and projections on the shaft arranged in groups at different circular angles around the shaft for contact with the yieldable means to move the blocks selectively in groups into contact with the strings.

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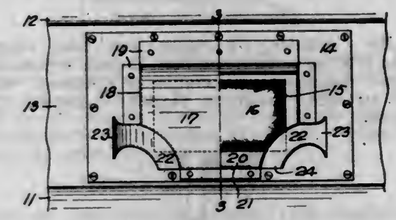
1,692,124. SWITCH ARRANGEMENT FOR ELECTRIC-LIGHT INSTALLATIONS AND THE LIKE. RUDOLF HÜRLIMANN, St. Gallen, Switzerland. Filed Aug. 20, 1926, Serial No. 130,541, and in Switzerland Oct. 30, 1925. 2 Claims. (Cl. 200—156.)



2. An electric rotatable switch, comprising in combination a central switch axle, a drum on said axle said drum having four pairs of teeth, a transverse pin bearing against one of said pairs of teeth, a pull string attached at the one end to said transverse pin and at the other end to a stationary point for holding said transverse pin in the inoperative position, a number of pull strings attached to said transverse pin, rollers guiding said pull strings, currentless wall boxes one for each pull string, a spring-controlled push button in each wall box, an elbow lever pivotally mounted on each wall box said push button adapted to act upon one arm of said elbow lever, one end of the corresponding pull string, attached to the other arm of said elbow lever, a spring for pulling said first mentioned arm of said elbow lever against said push button, and a sheath for each pull string.

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1,692,125. CAR VENTILATOR. THOMAS M. HYMAN, Montreal, Quebec, Canada. Filed Jan. 14, 1925. Serial No. 2,429. 1 Claim. (Cl. 98—20.)



In a ventilator, a base plate having a screened opening forming an inlet, a hood mounted thereon and presenting: a roofing wall sloping outwardly and downwardly from the base plate from above the top of the inlet to a level below the bottom thereof, a bottom wall projecting outwardly from the base plate from below the bottom of the inlet with its outer end joined to the lower end of the said roofing wall, said bottom wall having a screened opening forming an outlet, end walls extending at right angles to the base plate between the latter and the upper part of the roofing wall with their respective lower longitudinal edges spaced from the said bottom wall, and tubular casings disposed within the spaces between the bottom wall and the said end walls to provide air ducts for directing a current of air transversely of the opening in the said bottom wall

and having flared mouths disposed in advance of the end walls and having their respective discharge ends located in the same plane as the outlet of the hood, said casings inclining downwardly from their mouths towards the transverse central plane of the hood to restrict the passage of the latter towards its outlet; said hood being attached to the base plate by flanges on the walls thereof.

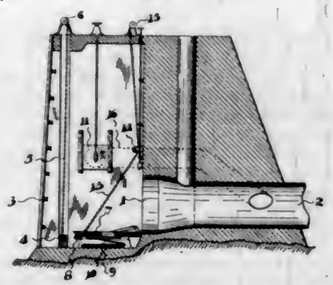
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1,692,126. CATALYTIC OXIDATION OF NAPHTHALENE. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Original application filed Nov. 24, 1926, Serial No. 150,623. Divided and this application filed Dec. 12, 1927. Serial No. 239,617. 20 Claims. (Cl. 260—123.)

1. A method of oxidizing naphthalene, which comprises causing vapors of naphthalene admixed with an oxidizing gas to react in the presence of a catalyst containing a zeolite.

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1,692,127. EMERGENCY CLOSURE FOR HYDRAULIC INTAKES. JAMES JOSEPH KEON, Owen Sound, Ontario, Canada, assignor to The William Kennedy & Sons, Limited, Owen Sound, Canada. Filed Feb. 4, 1927, Serial No. 165,905. Renewed July 28, 1928. 11 Claims. (Cl. 61—17.)



1. In an emergency closure for hydraulic intakes, the combination of a movable closure member for said intake adapted to be moved to closed position by an abnormal rush of water through the intake; and a check member connected with said closure member and positioned to be initially unaffected by the water flow and adapted to be drawn into the path of the water as the closure member moves to closed position.

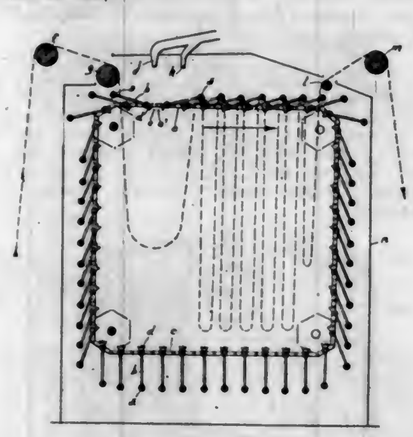
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1,692,128. METHOD OF PRODUCING TIRE FLAPS. KARL B. KILBORN, Fairlawn, Ohio, assignor to Seiberling Rubber Company, a Corporation of Delaware. Filed Oct. 19, 1926. Serial No. 142,568. 6 Claims. (Cl. 18—56.)



1. The method of producing a tire flap, which consists in providing a partially vulcanized endless band of rubber having the desired cross sectional configuration, expanding said band to fit it upon the periphery of a similarly shaped metal ring of larger diameter, and completing the vulcanization of the flap while on said metal ring.

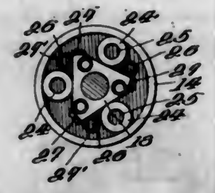
1,692,129. MACHINE FOR DRYING FABRICS AND PAPERS IN AN ENDLESS WEB. AUBIN LAMBRETTE, Membac-Dolhain, Belgium. Filed Dec. 5, 1925, Serial No. 73,513, and in France Dec. 19, 1924. 4 Claims. (Cl. 34—12.)



1. A machine of the catching type for drying fabric or paper in a continuous web, comprising in combination with two endless conveying chains, levers hingedly mounted each on the outer side of one of two corresponding links of said chain so that they turn when said chains move, a transverse stick fixed on the outer ends of every pair of levers, a feed roller for feeding the web of fabric or paper arranged at a certain height above said endless chains, a second feed roller between said first mentioned feed roller and said endless chains closer to said chains than said first mentioned feed roller, and two nozzles in front of said second mentioned feed roller arranged the one behind the other adapted to direct jets of air under pressure upon the web of fabric or paper to arrange the same about the stick which is just turning and to widely stretch and spread transversely the web in the fold formed between the preceding stick and the stick which is just turning.

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1,692,130. FEEDING MECHANISM FOR STOCKING-SEAMING MACHINES. WILLIAM B. LONG, Chicago, and LOUIS SLIWA, Cicero, Ill., assignors to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 30, 1925. Serial No. 59,743. 8 Claims. (Cl. 74—53.)



4. A feeding mechanism for sewing machines comprising a rotatable feed wheel, a clutch drum connected thereto, an oscillating clutch plate, a flat-sided block carried by said clutch plate and located within said drum, a roller between the flat side of the plate and the inner surface of the clutch drum, a lever spring for pressing said roller toward the surface of the clutch drum and holding the same continuously in contact therewith whereby when said clutch plate is moved to release the roller from gripping the clutch drum, said roller will roll on said drum and thereby change the wear on the roller.



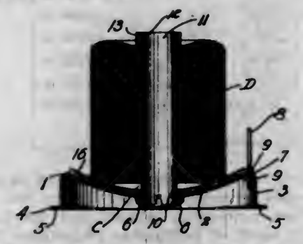
1,692,131. WELL-FLOWING DEVICE. WILBERT L. MARTIN, Tulsa, Okla. Filed Sept. 8, 1927. Serial No. 218,206. 8 Claims. (Cl. 103—232.)



1. In combination with well tubing having an apertured portion, valve mechanism controlling flow through said apertured portion, including a housing forming a chamber about the apertured portion and having a valve seat, and a float co-operative with said seat for controlling flow to the tubing through said chamber.

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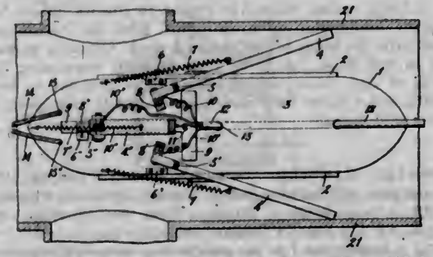
1,692,132. THREAD-SUPPORTING DEVICE. MORRIS L. MARTZ, New York, N. Y. Filed July 2, 1924. Serial No. 723,721. 8 Claims. (Cl. 242—141.)



1. A device of the character described comprising a base provided with a central cavity, a vertical mandrel disposed on the base within the cavity and arranged to support a spool of thread with the thread in engagement with the base and a compressing means arranged to co-operate with the mandrel to engage the core of the spool of thread and maintain a pressure of thread on the base.

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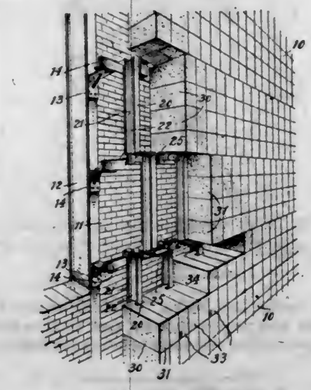
1,692,133. SEWER BOAT. STEPHEN WOOD MCCLAVE, JR., ROSCOE PARK MCCLAVE, and BERNARD DUNCAN MCCLAVE, Cliffside, N. J. Filed Feb. 9, 1925. Serial No. 7,761. 4 Claims. (Cl. 177—311.)



1. An indicator comprising a body portion, said body portion consisting of a deck and side runners, arms pivotally mounted on said deck, one of said arms adapted to swing from rear to front along the axis of the body portion and the other arms adapted to swing from rear to front and laterally of said body portion, means to indicate when any of said arms have swung beyond a predetermined point in its arc of rotation.

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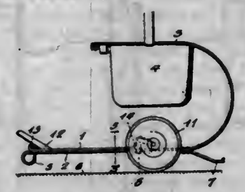
1,692,134. FURNACE WALL. PETER MCKENZIE, Chicago, Ill. Filed Mar. 28, 1927. Serial No. 179,088. 9 Claims. (Cl. 72—101.)



1. In a furnace wall, a plurality of vertical beams, a plurality of horizontal rails mounted on said beams, a plurality of brackets each gravity supported on an upper rail and restrained to side to side movement by a lower rail, and means on each bracket for supporting a plurality of tiles.

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1,692,135. BABY CART. JAMES R. MILLEN, Flint, Mich. Filed Jan. 14, 1926, Serial No. 81,206. Renewed Sept. 22, 1928. 6 Claims. (Cl. 280—43.)



3. A baby cart embodying a platform, wheels, means supported above the platform and comprising vertical portions forming bearings for an axle and lateral portions, and an axle adjacent its ends revolubly supported in said vertical portions and having offset ends engageable beneath the offset portions of said means.

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1,692,136. FRICTION ELEMENT AND PROCESS OF PRODUCING SAME. IZADOR J. NOVAK, Bridgeport, Conn., assignor to Raybestos Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 26, 1923, Serial No. 621,487. Renewed Dec. 22, 1927. 7 Claims. (Cl. 91—70.)

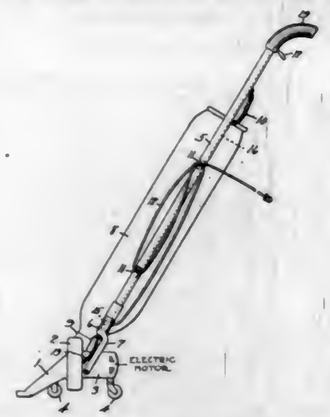
1. A friction element having an asbestos base containing a binder the solid residue of waste sulphite liquor produced by drying of the liquor.

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1,692,137. SUCTION CLEANING DEVICE. WILLIAM V. OAS, Cleveland, Ohio. Filed Feb. 10, 1921. Serial No. 443,820. 5 Claims. (Cl. 15—257.)

1. In a device of the character described, in combination, a casing adapted to be moved along a surface and having electrical devices therein, a fork pivoted to said

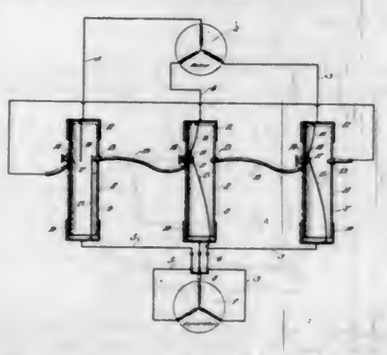
casing and having an open ended socket whose wall is slotted, an electric switch located in the end of said socket nearest the casing, a flexible electric cord extending be-




tween said switch and casing, a second electric cord extending from said switch through said slot, and a handle detachably secured in the outer end of said socket.

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1,692,138. MULTIPHASE EQUIPMENT PROTECTION. ANGUS N. ORR and SOLOMON H. GOLDBERG, Chicago, Ill. Filed Mar. 17, 1922, Serial No. 544,485. Renewed June 2, 1928. 3 Claims. (Cl. 175—294.)

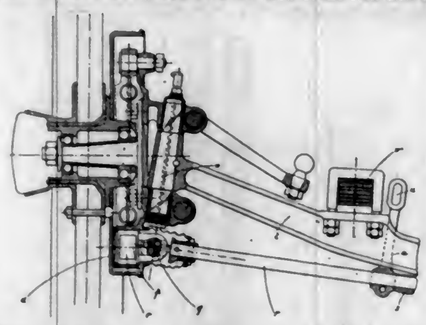


1. Electric fuses for multiphase equipment, consisting in fuses with line connections adapted to be interposed in the separate phase lines, spring means in each fuse and a fusible substance uniting the connections and said spring means and holding a spring tension upon the latter, contacting means in each fuse and connections with the fuses in the other lines, whereby with the blowing of one fuse the connected lines are short circuited and the fuses blown.

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1,692,139. BRAKING MECHANISM FOR FRONT WHEELS ON MOTOR CARS. EDOUARD POULET, Courbevoie, France. Filed July 19, 1923, Serial No. 652,645, and in France Jan. 8, 1923. 1 Claim. (Cl. 188—194.)

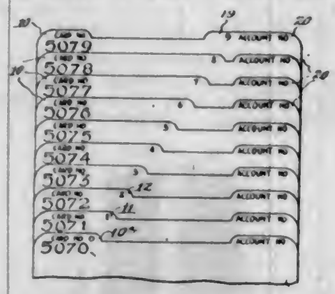
A device for operating brakes on the front wheel of motor-cars, comprising in combination a shaft perpendicular to the pivot of the wheel, a support rigid with the wheel-axle and carrying one of the ends of said shaft, a lever keyed on said shaft and having an eye situated at the height of the suspension-spring of the axle, a braking cam, the axis of which is perpendicular to the plane of the brake band, a ball-joint arranged in the extension of the pivot-axle and interposed between said brake-cam and said



driving shaft, and means for connecting said ball-joint on the one hand to said driving shaft and on the other hand to said brake-cam.

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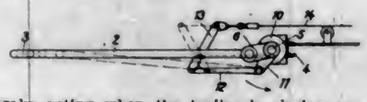
1,692,140. CARD INDEX. JAMES L. ROWLEY, Muskegon, Mich., assignor to Shaw-Walker Company, Muskegon, Mich., a Corporation of Michigan. Filed May 14, 1927. Serial No. 191,290. 4 Claims. (Cl. 129—16.5.)




1. In a card index, a series of cards each having relatively wide tabs of uniform height at the two opposite corners of one upstanding margin, and indicia visibly carried on a series of continuous projections extending inwardly at varying lengths and uniform height from one of said corner tabs.

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1,692,141. AUTOMATIC BRAKE FOR TRAILERS. JOHANN SCHLAGENHAUF, Oerlikon, Switzerland. Filed Oct. 19, 1926, Serial No. 142,633, and in Germany Jan. 8, 1926. 1 Claim. (Cl. 188—142.)



A brake acting when the trailer is closing up on the tractor, comprising in combination with the radius bar and with the bogie, of the trailer a shaft rotatably mounted on said bogie two lever arms hingedly connecting the ends of said radius bar to said shaft, a dashpot on said shaft, and a brake lever system connected to and operated from said dashpot.

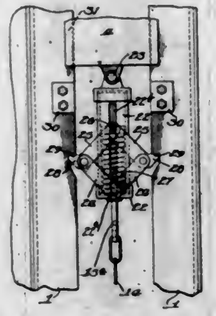
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1,692,142. BARRIER. JOSEPH B. STRAUSS, Chicago, Ill., assignor to Highway Safety Barrier Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 28, 1921. Serial No. 518,133. 4 Claims. (Cl. 39—1.)

1. A barrier for vehicles comprising separated supports, an impact receiving device comprising a plurality of flexible parts extending across the space between said supports,



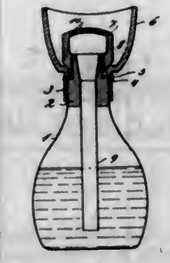
spacers adapted to slide along said supports and with which said impact receiving device is movably connected, power transmitting devices connected with said spacers and extending along the supports, means for applying power to the power transmitting devices to raise and lower



said spacers and said impact receiving device, automatically actuated devices connected with said power transmitting devices for connecting the power transmitting devices and said spacers with said supports when the impact receiving device is struck so as to relieve the strain on said power transmitting devices.

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1,692,143. APPARATUS FOR WASHING THE EYES. WILHELM STRUNZ, Allersberg, near Nuremberg, Germany. Filed July 12, 1926, Serial No. 121,903, and in Germany Sept. 7, 1925. 2 Claims. (Cl. 128—249.)



1. An apparatus for bathing eyes, comprising in combination a rubber ball to be compressed by hand containing the washing liquid, and a flat cap having in its top plate a great number of narrow holes arranged so that they are directed towards the whole surface of the globe of the eye.

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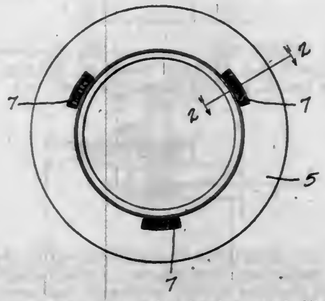
1,692,144. AUTOMATIC EGG BOILER. KARL THIELICKE, Wettin, Germany. Filed July 18, 1927, Serial No. 206,758, and in Germany Sept. 16, 1926. 1 Claim. (Cl. 53—1.)



An automatic egg-boiler comprising in combination with a pot partly filled with water, a cylinder open at the bottom and closed at the top located in said pot, a steam dome forming part of the top-plate of said cylinder and around which the eggs are placed, and an air-valve on the top of said cylinder.

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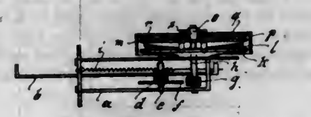
1,692,145. MEANS FOR BALANCING PNEUMATIC TIRES. HARRY T. WOOLSON, Detroit, Mich., assignor to Chrysler Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 21, 1926. Serial No. 82,861. 6 Claims. (Cl. 152—13.)



5. A pneumatic tire casing having patch like members secured to the outer surface thereof balancing it radially.

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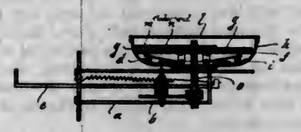
1,692,146. SPARK TOY. CARL ARNOLD, Nuremberg, Germany. Filed May 16, 1927, Serial No. 191,788, and in Great Britain Oct. 18, 1926. 2 Claims. (Cl. 46—14.)



1. A toy comprising in combination, a casing having slots in its end walls and slots in the bottom-plate and top-wall, a rack mounted in the slots of the end-walls and projecting from said casing, a pull-spring attached at the one end to said casing and at the other end to the inner end of said rack, a gear-wheel transmission operated by the inward movement of said rack and shiftably mounted in said slots of the bottom and top plates, a spark-producing mechanism rapidly rotated by said gear-wheel transmission, a vertical shaft, a head at the top end of said shaft, a disk having apertures covered with differently coloured transparent elements and loosely mounted on said head so that it is slowly rotated by friction said sparks becoming visible at certain intervals and in different colours through said transparent elements, and a disk covering said spark-producing mechanism and having apertures through which the sparks pass which are produced.

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1,692,147. SPARK-PRODUCING TOY WITH RACK-OPERATED DRIVING MECHANISM AND CHANGING COLORS. CARL ARNOLD, Nuremberg, Germany. Filed Aug. 1, 1927, Serial No. 209,882, and in Germany July 8, 1927. 1 Claim. (Cl. 46—32.)

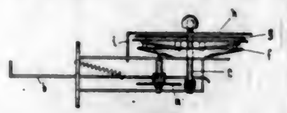


A spark-producing toy, comprising in combination with a rack-operated driving mechanism a casing in which said mechanism is located a vertical shaft, rotatably mounted in said casing and projecting through the top plate of said casing, a casing open at the top end, fixed on the top plate of the casing of said driving mechanism, an emery-band on the inner surface of said open casing, cerium-stones connected to said vertical shaft so that they rest on said emery-band, a disk having apertures

fixed on said shaft at a certain distance below the top end of the same and having a smooth upper surface, several flat rings of differently colored transparent material placed over the top end of said vertical shaft and resting loosely on said disk, and a lid having windows removably placed on said open casing.

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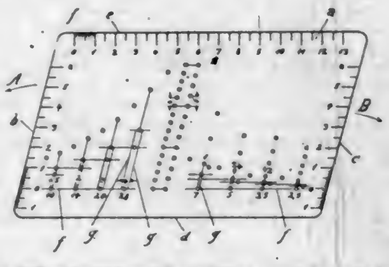
1,692,148. SPARK TOY. CARL ARNOLD, Nuremberg, Germany. Filed Mar. 15, 1928, Serial No. 261,932, and in Germany Dec. 6, 1927. 1 Claim. (Cl. 46—14.)



A spark toy, comprising in combination with the spark producing mechanism mounted on a vertical shaft driven from a rack-operated driving mechanism and with a disk rotatably mounted on said vertical shaft above said spark producing mechanism and having apertures with coloured transparents, a second disk above said disk with transparents loosely mounted on said shaft by means of a slot said loose disk having for instance a face painted on its upper surface and several apertures in the same, and means for securing said loose disk against rotation but permitting shifting movements of the same so that, when said vertical shaft is rotating, said upper disk is moved to and fro and shaken so that it looks as if the face painted on its upper surface was animated the coloured sparks becoming visible through the apertures in said loose disk.

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1,692,149. RULING APPARATUS FOR CHARACTERS. KARL CASTAN, Pforzheim, Germany. Filed Mar. 11, 1927, Serial No. 174,557, and in Germany July 22, 1926. 5 Claims. (Cl. 33—104.)

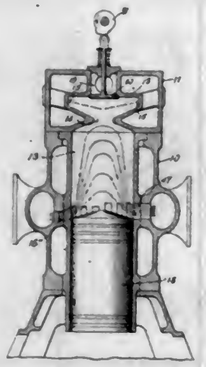


1. A ruling instrument for writing consisting of a plate of transparent material and having hole systems one for each height of the writing, each hole system comprising essentially division holes arranged the one above the others and designating respectively the vertical limits of small characters, capital characters and the line space, all the hole systems beginning on one and the same foot line which is parallel to the long sides of said plate, there being two parallel straight lines inclined to the horizontal at the angle of inclination of the characters indicating the height of capital characters in each hole system, the distance between said lines being equal to the thickness of the lines forming the characters.

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1,692,150. OIL ENGINE. OTTO A. BANNER, Milwaukee, Wis. Filed Oct. 4, 1924, Serial No. 741,639, and in Germany Oct. 5, 1923. 2 Claims. (Cl. 123—65.)

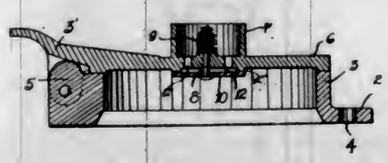
1. In a two cycle oil engine the combination of a cylinder having a piston space, a piston therein, a combustion chamber, a restricted throat between said chamber and space, oppositely disposed intake and exhaust passages in the walls of said space controlled by said piston, an air inlet valve in said chamber, and means for opening said



valve slightly while said exhaust passages are open and for opening said valve fully after said passages are closed.

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1,692,151. AUTOMATIC SAFETY INTAKE AND OUTLET VALVE FOR TANKS. HENRY BENHAM, Breckenridge, Tex. Filed June 26, 1923, Serial No. 647,825. Renewed Oct. 3, 1927. 1 Claim. (Cl. 220—44.)



In structure of the class described, the combination with a base forming a portion of a container and provided with an upstanding annular flange, of valve mechanism, comprising a pin slidable in said base, said base being provided with port apertures therethrough adjacent said pin, a spiral spring surrounding the outer end of said pin and engaging the upper surface of said base, a valve member secured to the inner end of said pin and resiliently urged by said spring into contact with the under surface of said base to normally close said port apertures, but movable away from said port apertures against the pressure of said spring by the pressure of the external air to thereby admit air into said container upon the pressure of the air in said container being less than that of the external air, said annular flange surrounding and extending above the upper ends of said pin and spring, and also surrounding the upper ends of said port apertures, to protect said pin and spring from injury, and at the same time to protect said port apertures from the entrance therethrough of dust and other foreign matter into said container.

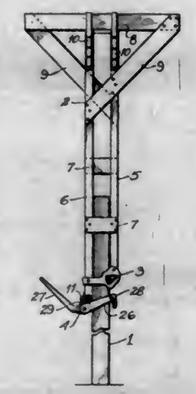
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1,692,152. TIMBER CLAMP. GEORGE B. BOSCO, Chicago, Ill. Filed Feb. 12, 1927. Serial No. 167,697. 5 Claims. (Cl. 248—2.)

1. A clamp for securing together two timbers comprising a fitting adapted for support on one of the timbers, means for securing said fitting against angular movement relative to the timbers, said fitting having a keyway of



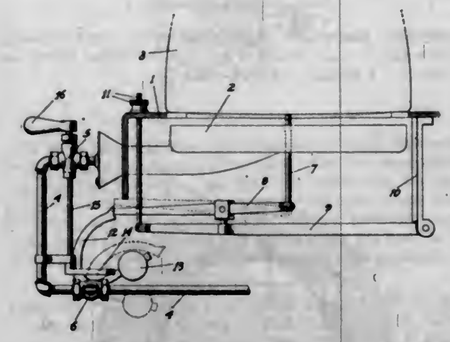
substantially triangular shape, and a wedge seated in said keyway and fulcrumed in one corner thereof, the edge of



said wedge opposite the fulcrum being adapted for engagement with the other timber.

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1,692,153. HEAT CONTROL FOR COOKING UTENSILS. RAYMOND A. BOTTS, Stockton, Calif. Filed Mar. 16, 1928. Serial No. 262,213. 13 Claims. (Cl. 126—42.)

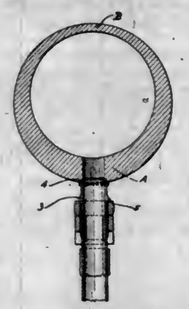


1. A heat control device for a stove comprising, with a utensil having a bottom adapted to flex vertically when a certain degree of heat is attained, and a heating device over which the utensil is adapted to be positioned, a vertically movable member to engage the bottom of the utensil, means causing the member to move with the bottom of the tensil as said bottom flexes, and means governed by such vertical movement of the member for causing the operation of the heating device to be discontinued.

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1,692,154. SUPERHEATER HEADER. BENJAMIN BROIDO, New York, N. Y., and RALPH M. SWARTZ, Bogota, N. J., assignors to The Superheater Company, New York, N. Y. Filed Nov. 13, 1926. Serial No. 148,139. 1 Claim. (Cl. 285—25.)

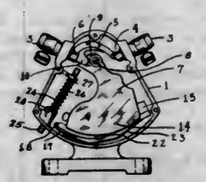
In apparatus for conveying fluid under pressure, in combination, an externally cylindrical header with an eccentric cylindrical bore therein and a series of alined holes in the thickest part thereof; tubular elements having ends engaging said holes; clamping means for holding said element ends in engagement with said holes; and holding studs engaging the clamping means and screwed into the



thickest part of said header, the thickness of said part being at least equal to the effective stud diameter.

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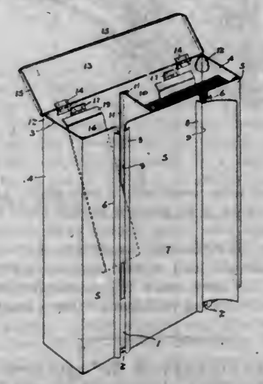
1,692,155. CIRCUIT-CONTROLLING MEANS FOR IGNITION CIRCUITS OF MOTOR VEHICLES. FRANK A. BROWNELL, Rochester, N. Y. Filed July 17, 1924. Serial No. 726,522. 11 Claims. (Cl. 200—52.)



1. A circuit controlling means comprising a movable switch part, locking means, an operating member for the movable switch part held by the locking means in a normal position to and from which it moves under the action of gravity, and a separate gravity-operating member movable into engagement with said locking means to move the latter from locking position.

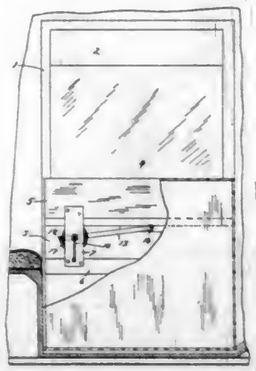
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1,692,156. CABINET FOR DISPENSING FOLDED-PAPER SHEETS. GEORGE CARRUTHERS, Toronto, Ontario, Canada. Filed Mar. 13, 1926. Serial No. 94,585. 4 Claims. (Cl. 312—61.)



1. A cabinet having an open end and a pair of slots extending completely across the front wall and being open at the open end of the cabinet, and a partition dividing the interior of the cabinet and supporting the portion of the front wall arranged between the slots.

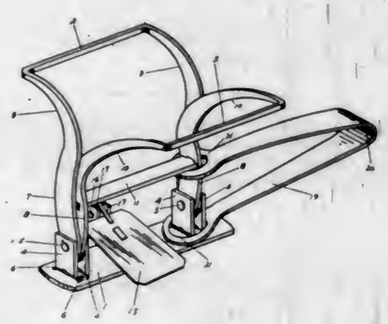
1,692,157. WINDOW-CONTROL MECHANISM. EVERETT J. COOK, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed July 23, 1923. Serial No. 653,266. 3 Claims. (Cl. 268—126.)



1. In a window control mechanism, the combination with a support, of a control arm mounted upon said support, and a spiral counter-balancing spring connected to said support and arm, said spring having its convolutions tensioned to bear against one of said members.

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1,692,158. ANIMAL TRAP. WILLIAM COOPER, Apalachin, N. Y., assignor to Cooper Humane Trap Co., Inc., Binghamton, N. Y. Filed Apr. 12, 1927. Serial No. 183,114. 5 Claims. (Cl. 43—90.)

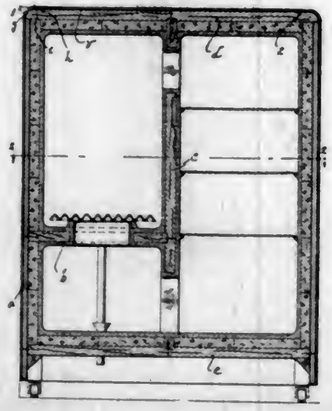


5. An animal trap comprising a base plate, a pair of substantially U-shaped jaws pivoted to said plate at their free ends, one of said jaws being smaller than the other to permit its passage therethrough for setting, a cross piece connecting the side portions of said smaller jaw, means normally closing said jaws, and a trigger cooperating with said cross piece for retaining said jaws in open position.

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1,692,159. REFRIGERATOR OR CABINET. LLOYD G. COPEMAN, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 16, 1925. Serial No. 69,305. 5 Claims. (Cl. 217—17.)

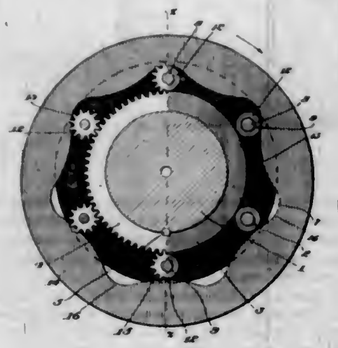
1. A cabinet or refrigerator comprising a wooden shell having jointed corners in which one of the wooden panels is curved and projects outwardly beyond the other and a ply metal sheathing encasing a portion of the wooden shell and being stripped down near said joint so as to underlie



said projecting portion and stretched over the corner joints and over the rounded portion and having a turned-in portion embedded in the wooden shell.

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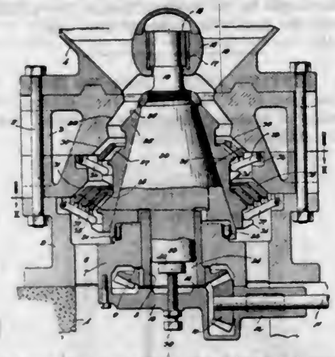
1,692,160. MECHANICAL MOVEMENT. JOHN ALOYSIUS DORMER, Detroit, Mich. Filed June 9, 1925. Serial No. 35,919. 8 Claims. (Cl. 74—14.)



1. A multiple eccentric motion mechanism comprising inner and other rings, one of which is adapted to be driven, one of said rings being provided with a series of cam-surfaces, and cam engaging members interposed between said rings and engaging said cam surfaces, one of said rings being mounted to maintain a fixed axis and the other to turn eccentrically to said axis, whereby a multiplicity of eccentric motions are producing during one revolution of the driven ring.



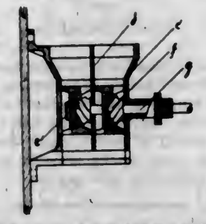
1,692,161. CRUSHER. JOHN A. DORMER and JAMES GUNNELL MALONE, Detroit, Mich. Filed June 25, 1926. Serial No. 118,421. 6 Claims. (Cl. 83—10.)



1. In a crushing chamber, a crushing head movable relative to walls of said chamber, and a crushing member adjustably supported in said crushing chamber and surrounding said crushing head and adapted to be actuated thereby.

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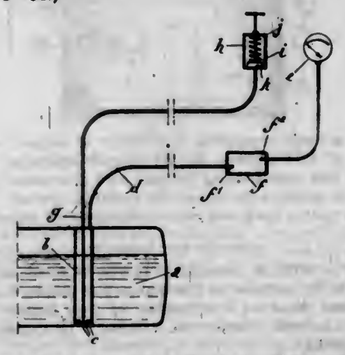
1,692,162. WALL COFFEE MILL FOR TWO DIFFERENT GRINDING MATERIALS. OTTO EXSTERNBRINK, Westhofen, Germany. Filed Sept. 27, 1926, Serial No. 138,050, and in Germany Sept. 25, 1925. 1 Claim. (Cl. 83—13.)



A wall-coffee-mill for two different grinding materials, comprising in combination a separate shell for each grinding material, an axle, two grinding cones one for each grinding material mounted on said axle both in the same direction, and having oppositely directed grinding edges, and a crank handle on said axle for rotating the same in the one or other direction to grind the one or other material.

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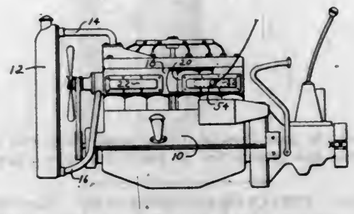
1,692,163. LIQUID-LEVEL INDICATOR. HENRI FARMAN, Billancourt, France. Filed Dec. 15, 1924, Serial No. 756,060, and in France Dec. 29, 1923. 1 Claim. (Cl. 73—54.)



An apparatus designed to indicate at a distance the position of the level of a liquid comprising in combination with a reservoir containing the liquid, an air pump, a pressure responsive gage, a tube, closed at each end, extending downwardly in said reservoir to adacent the bottom thereof and provided with openings in its side walls near the lower end thereof for communication with the liquid in said reservoir at the minimum level to be gaged, a tubular conduit of capillary bore, connected at one end to said pump and extending downwardly in said tube and terminating a short distance above the bottom thereof, and a second conduit having a capillary bore and connecting the top end of said closed tube with said pressure responsive gage.

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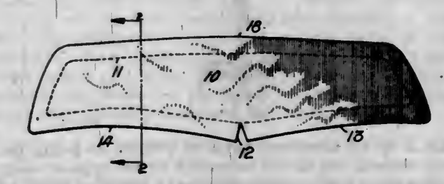
1,692,164. HEATER. HARRY E. FROMM, Detroit, Mich. Filed Dec. 20, 1926. Serial No. 156,049. 4 Claims. (Cl. 219—38.)



1. In the combination of an internal combustion engine having a water jacket, a detachable plate forming a portion of the outer wall of said water jacket, an electrical heating element secured to the inner side of said plate, and an electrical connection projecting through the wall of said plate adapted to receive electrical terminals.

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1,692,165. COUNTER FOR SHOES. HERBERT R. GARSIDE, Long Island City, N. Y. Filed Mar. 11, 1927. Serial No. 174,462. 2 Claims. (Cl. 36—68.)



1. A one-piece counter blank for shoes comprising a single piece of heavy material forming the body of the counter, all the edges of which are cut down or skived to be relatively thin, and decreasing in thickness toward the edge of the blank, and the top edge of the counter being relatively straight while the bottom edge is formed with joined curved portions, one of which is of greater degree of curvature than the other.

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1,692,166. STRUCTURAL-FORM TIE. LEE ORVILLE GATES, Denver, Colo. Filed Jan. 28, 1928. Serial No. 250,285. 8 Claims. (Cl. 25—131.)

3. As a new article of manufacture, a tie for plastic forms formed of a single strand of wire and of a length to bridge the space between and extend outwardly beyond opposed walls of such form, said tie comprising an intermediate length, the extremities of said intermediate length being continued by returned lengths, each of the returned lengths terminating inwardly of the opposite end of the intermediate length, each end portion of the intermediate length and the connected portion of the adacent returned length being separated to provide a loop, the portions of the three

lengths between the loop being wrapped one around the other two, the extremities of each of the returned lengths



being bent to pass through the adjacent loop and form a cross piece the extremities of which are curved inwardly.

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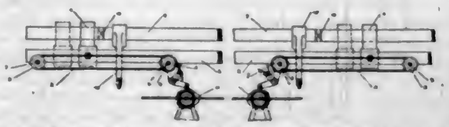
1,692,167. STRUCTURAL-FORM TIE. LEE ORVILLE GATES, Denver, Colo. Filed Feb. 23, 1928. Serial No. 256,320. 12 Claims. (Cl. 25—131.)



10. A tie for structural forms of a length to bridge the space between and extend outwardly beyond opposed walls of such form, said tie composed of two U-shaped pieces of wire twisted together to form a cable, each end thereof having a loop formed of an extension of material from said cable, and a cross piece formed of an extension of material from said cable extending substantially square therewith and adapted to contact with the opposed walls of such form and prevent their inward movement.

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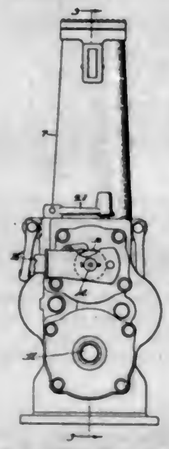
1,692,168. MECHANISM FOR DIRECT MECHANICAL ADJUSTING OF THE ABUTMENT FOR THE THREAD GUIDES ON FLAT HOSIERY FRAMES. EMIL GLÖCK, Chemnitz, Germany. Filed Feb. 4, 1926, Serial No. 85,938, and in Germany Apr. 20, 1925. 1 Claim. (Cl. 66—129.)



An adjusting mechanism for the thread guide stops on flat hosiery frames, comprising in combination with the design thread guides, stops for said design thread guides, endless chains for each stop, sprocket wheels for moving said chains, ratchet pawls, and ratchet wheels for rotating said sprocket wheels in accordance with the pattern so that the stops in the hosiery frames are adjusted accordingly in the inward or outward direction.

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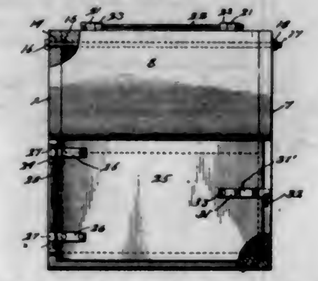
1,692,169. LIFTING JACK. JOHN W. HOBBS, Boston, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed May 10, 1926. Serial No. 107,846. 4 Claims. (Cl. 254—103.)



1. A lifting jack comprising a standard, a screw revolubly mounted in said standard, a lifting member slidably mounted in said standard and adapted to be translated by said screw, selective high speed and low speed gearing for operating said screw, a power shaft revolubly mounted in said standard, and means slidably mounted on said power shaft for operating said gearing.

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1,692,170. SECTIONAL GARBAGE AND REFUSE RECEPTACLE. WILLIAM GRANT IVES and MARTIN A. IVES, Chicago, Ill. Filed Apr. 20, 1922. Serial No. 557,486. 1 Claim. (Cl. 220—4.)



In a garbage receptacle, a plurality of molded sections, certain of said sections having aligned apertures molded therein, and rods passing through said apertures to maintain said sections in assembled position, certain of said sections resting upon said rods to be supported thereby.

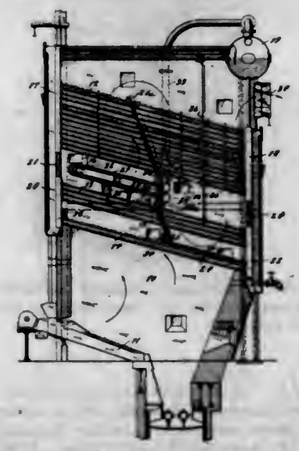
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1,692,171. STEAM BOILER. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 14, 1924. Serial No. 719,952. 15 Claims. (Cl. 122—299.)

1. A boiler having horizontally extending water tubes connected at their ends to uptake and downtake water



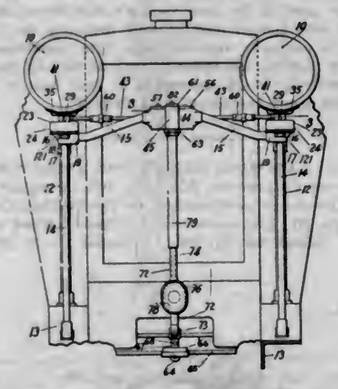
chambers, said tubes being divided to form a lower, a middle and an upper bank with a space between each pair of successive banks, a roof baffle extending from the downtake water chamber along the tubes of the lower bank, a first cross baffle extending upwardly from the inner end of said roof baffle across tubes of the middle and upper banks,



a second cross baffle extending downwardly across the upper bank and entering the space between the upper and middle banks and a superheater located in the first pass between the uptake water chamber and said first cross baffle and in the space between the upper and the middle banks and with substantially all of its tube heating surface located in the first pass.

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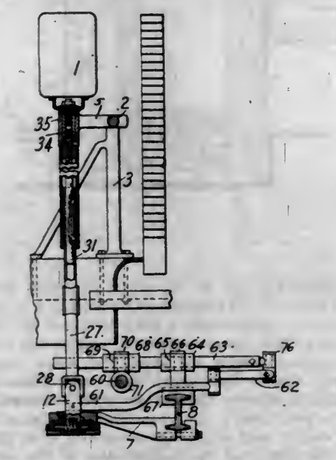
1,692,172. DIRIGIBLE HEADLIGHT FOR AUTOMOBILES AND THE LIKE. GEORGE S. KECK, Pasadena, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 8, 1926. Serial No. 93,122. 9 Claims. (Cl. 240—62.)



1. In a dirigible headlight mechanism, supporting members having means for mounting the same near the respective sides of an automobile frame, a housing rigidly mounted between said supporting members, having a vertical bearing at one side thereof and having a horizontal slot in one wall thereof, a trunnion journaled in said bearing, means for operatively connecting said trunnion with the steering mechanism of an automobile, an actuating member connected with said trunnion and arranged within said housing, a headlight mounted for movement about a vertical axis, and means extending through slot in said housing for operatively connecting said actuating member with said headlight.

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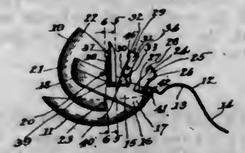
1,692,173. DIRIGIBLE HEADLIGHT. GEORGE S. KECK, Pasadena, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del., a Corporation of Delaware. Original application filed Feb. 5, 1926, Serial No. 86,117. Divided and this application filed Apr. 23, 1927. Serial No. 186,014. 5 Claims. (Cl. 240—62.)



1. In a dirigible headlight mechanism, a headlight, means for supporting said headlight on the frame of an automobile for movement about a vertical axis, a bracket having means for supporting the same on the axle of said automobile, an actuating device mounted on said bracket for movement about a vertical axis, an operative connection between said actuating device and said headlight, a lever pivotally supported on said axle independently of said actuating device, means for connecting one end of said lever with a part of the steering mechanism of said automobile, and means for connecting the other end of said lever with the actuating device for said headlight.

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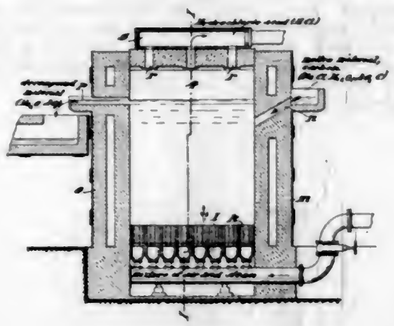
1,692,174. VOICE PLACER. EVA KELLER, Pasadena, Calif. Filed Apr. 27, 1927. Serial No. 186,917. 15 Claims. (Cl. 84—466.)



4. A voice placer comprising in combination a main reflector somewhat spherical in contour, a resonance chamber structure secured in front thereof, having a lower portion semi-cylindrical in transverse section and with the upper portion partly spherical, a dome shaped hood pivotally connected to the resonance chamber structure fitting over the top thereof, and means to receive and deflect sound waves positioned in front of the resonance chamber structure.

6. A voice placer, as claimed in claim 4, means to deflect the sound waves comprising adjustable jaws having an opening at the front and the back, and a deflecting plate.

1,692,175. FURNACE FOR THE DECOMPOSITION OF ALKALI-METAL CHLORIDES. JULIUS KERSTEN, Bensheim, Germany. Filed Sept. 19, 1924, Serial No. 738,654, and in Germany Oct. 6, 1923. 1 Claim. (Cl. 23—277.)



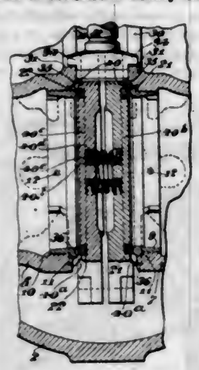
A furnace for the decomposition of alkali metal chlorides by steam in the presence of silicates in a molten mass, comprising in combination a shaft enclosed by masonry, a grate like bottom plate in said shaft and having slits which form injecting nozzles, air boxes and steam boxes under said grate like bottom plate, means for connecting said boxes with said grate like bottom plate to supply air and steam to said slits, a collector for the escaping gases at the top end of said shaft, a permanently open inlet channel for the supply of the molten mass at the one side of said shaft at about the middle height of said shaft, and a permanently open outflow channel at the other side of said shaft at the height of the liquid level in said shaft and designed for discharging the products from decomposition, a top plate on said shaft and having outlet ports, and a collector above said top plate designed to collect the hydrochloric acid which is generated so that the initial materials with addition of carbon are continuously charged into the furnace and the products from decomposition are continuously discharged from the same.

1,692,176. MOTOR FUEL AND PROCESS OF MAKING SAME. LESTER KIRSCHBRAUN, Chicago, Ill. Filed Nov. 19, 1919, Serial No. 339,161. Renewed May 12, 1928. 2 Claims. (Cl. 44—9.)

1. A fuel for internal combustion engines consisting of a homogenized emulsified mixture of a volatile hydrocarbon oil having substantially the characteristics of gasoline, water and an organic acid ammonia mixture as an emulsified agent, the water being in the dispersed phase and the oil in the continuous phase.

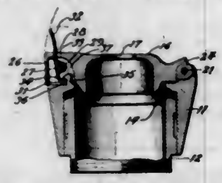
1,692,177. GATE VALVE. PAUL W. KNAUF, Cynwyd, Pa., assignor to Schutte and Koerting Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 22, 1924. Serial No. 738,973. 8 Claims. (Cl. 251—59.)

1. In a valve structure, the combination of a valve casing having an opening extending therethrough and being provided with a valve seat and being also provided with guides in oppositely disposed relation to each other, intermediate and lower end portions of said guides being wider than the remaining portions thereof, a valve having projections which extend from the periphery thereof, which projections are adapted to engage the said guides and to slide in contact therewith, the areas of the contacting surfaces of the said projections and guides increasing as the valve approaches closed position, and the said guides and projections guiding the said valve in spaced relation to the said seat until it reaches a nearly closed position, and



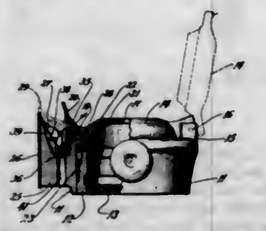
the said guides having means whereby thereafter the said valve may move laterally into closed position into contact with the said valve seat.

1,692,178. RADIATOR-CAP-LATCHING DEVICE. ALOYSIUS C. LIPPERT, Kenosha, Wis., assignor, by direct and mesne assignments, to The Norlipp Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 13, 1925. Serial No. 8,943. 4 Claims. (Cl. 292—128.)



1. A latching device for use with a radiator cap, having a body, means for attaching said body to the threaded filling opening of a radiator, and a cover hinged to said body, said device comprising a hooked member pivotally mounted in the front end of the cover, a hook portion on the upper part of the body and a spring mounted on the pivot of said hooked member and engaging the latter in manner to normally urge the same into engagement with said hook portion, the opposite ends of said spring engaging respectively in the apertures in said hooked member above and below the pivot point thereof.

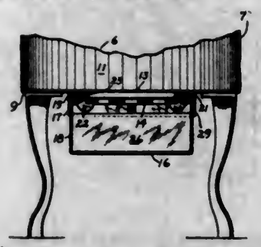
1,692,179. LATCHING DEVICE FOR RADIATOR CAPS. ALOYSIUS C. LIPPERT, Kenosha, Wis., assignor, by direct and mesne assignments, to The Norlipp Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1924. Serial No. 731,288. 6 Claims. (Cl. 220—24.)



1. In a radiator cap comprising a body attachable to the filler neck of a radiator and a cover hinged to said body and adapted to permit access to the radiator without removal of the cap body from the filler neck, means for releasably fastening said cover in closed position, said means comprising a latch member pivotally connected to the cap body and at the front thereof, said member having a part adapted to engage the top of the cover to hold the latter in closed position, said part being formed as a thumb-piece and extending vertically upward from its pivot, the engageable part of said thumb-piece being above the cover and a spring associated with said latch member and adapted to urge the latter toward latching position.

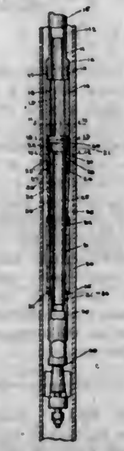


1,692,180. AIR-TIGHT HEATER. SAMUEL LOAFEA, Oakland, Calif. Filed June 30, 1925. Serial No. 40,530. 3 Claims. (Cl. 126—65.)



1. In a heater, a bottom having an opening therethrough, a grate removably positioned across said opening entirely externally of the plane of said bottom, an ash-tray removably positioned below said grate, and cooperating track members fixed to said botom adjacent said opening provided with guideways in which both said grate and ash-tray are arranged to slidably and independently engage.

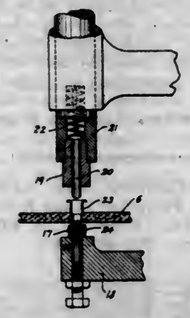
1,692,181. OIL-WELL PACKER. ALFRED P. MACHRIS, Los Angeles, Calif. Filed June 20, 1927. Serial No. 200,026. 5 Claims. (Cl. 166—12.)



2. A well packer comprising in combination a supporting structure having means to engage a well casing, a packing sleeve supported thereon, a mandrel secured at its lower end to the said structure and extending upwardly through the packing sleeve, a main sleeve having a plurality of sets of key-ways, the mandrel having lugs to engage said key-ways, means in the main sleeve for shifting the lugs from one set of key-ways to another, a tapered setting sleeve secured to the main sleeve and slidable on the mandrel, said taper sleeve engaging internally of the packing sleeve and expanding same, and means connected to the main sleeve to raise and lower same.

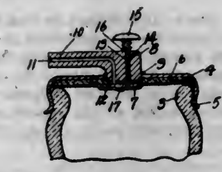


1,692,182. METHOD OF INSERTING TUBULAR RIVETS. FRANK MAYER, Milwaukee, Wis., assignor to Milwaukee Saddlery Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed May 27, 1927. Serial No. 194,718. 1 Claim. (Cl. 218—29.)



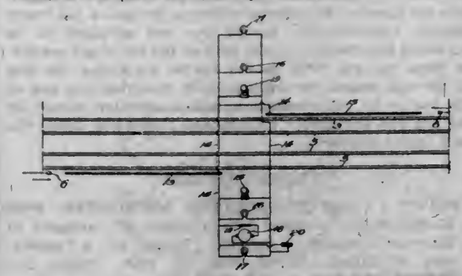
The method of reinforcing buckle holes in harness straps which consists in punching a hole in the strap, taking a tubular rivet having an outside barrel dimension of larger diameter than the hole and causing said rivet to chisel out the hole to a diameter to snugly engage the outer surface of the rivet barrel throughout its entire length and upsetting the chiselling end of the barrel against the lower side of the strap.

1,692,183. BOTTLE CAP. JOHN C. MILES, Bonners Ferry, Idaho. Filed June 27, 1927. Serial No. 201,586. 1 Claim. (Cl. 215—78.)



The combination with a bottle cap having a rigid head and discharge nozzle, of a cork layer within the cap, a valve closing said discharge nozzle and a spring pressed operating stem for the valve, a projecting lug on said valve, and a sealing layer of tin foil covering said valve and cork layer.

1,692,184. RAILWAY-CROSSING GUARD. FRANK P. MILLER, Chicago, Ill. Filed Oct. 29, 1926. Serial No. 144,049. 7 Claims. (Cl. 246—129.)

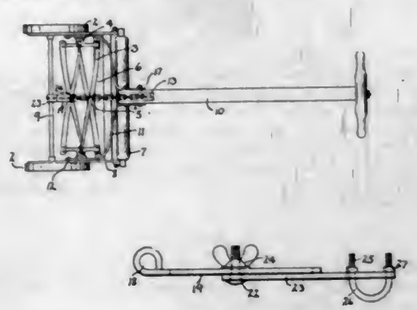


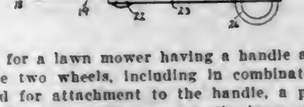
1. A crossing guard comprising in combination, a movable gate, means for automatically actuating said gate comprising an auxiliary rail and an electric motor, electric current connections between said rail and motor, electric current connections between said rail and a source of current moving toward said gate, a control switch for said

motor, clutch mechanism, electric current connections between said rail and said clutch mechanism, an electromagnet, a connection between the magnet and clutch mechanism, means operable by actuation of the clutch mechanism to automatically break the switch contact to the motor whereby further downward movement of said gate is automatically arrested after the gate has reached a predetermined lowered position, said clutch being held in engagement with said motor by said electromagnet and released from such engagement only when said magnet is deenergized by the breaking of contact between said rail and said moving source of current to permit the gates to rise.

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1,692,185. ATTACHMENT FOR LAWN MOWERS. JAMES BENEDICT PAINE and JAMES WILLOUGHBY SPRADLEY, Sherman, Tex. Filed Dec. 9, 1926. Serial No. 153,706. 1 Claim. (Cl. 56—249.)

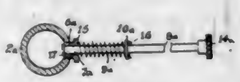




An attachment for a lawn mower having a handle and a rod bracing the two wheels, including in combination a bracket adapted for attachment to the handle, a plurality of plates adapted for attachment to the brace rod, a non-resilient connecting member between said bracket and said plates, a clevis for attaching said plates to said rod and a bolt retaining said plates in any desired adjustable position.

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1,692,186. GAS BURNER. GEORGE FOSTER REZNOR, Mercer, Pa. Filed Apr. 15, 1927. Serial No. 183,953. 2 Claims. (Cl. 158—118.)

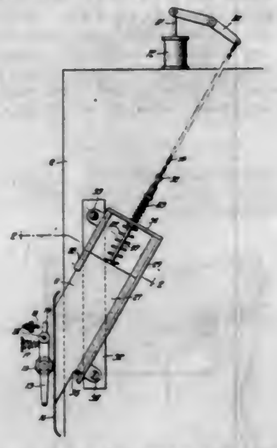


1. In a burner, an injection tube, an inlet for projecting gas into the tube, an air inlet through which air is drawn into the tube by the injector action of the gas, a rod freely slidable longitudinally having one end arranged to be projected into the tube in the path of the jet of gas projected from the gas inlet, means for so projecting the end of the rod, means for automatically restoring the end of the rod to its initial position, and a shoulder carried by the rod and engageable with a fixed element to define the said initial position.

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1,692,187. DOOR-CONTROLLING MECHANISM FOR ELEVATORS. JOSEPH RICE, Chicago, Ill., assignor to Elevator Company of America, Chicago, Ill., a Corporation of Illinois. Filed July 14, 1926. Serial No. 122,368. 10 Claims. (Cl. 187—61.)

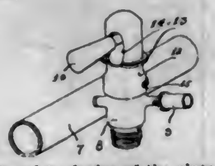
5. In a door control apparatus for elevators the combination with an elevator car having a movable abutment structure, of door control mechanism having an element adapted when said abutment structure is in its actuating position to be moved by said structure into its door-release position, said abutment structure including a slide mounted so as to fall when released, by the action of gravity into its actuating position, guides for said slide, electro-



magnetic means adapted to retract said slide, and double acting buffers to deaden the noise due to the moving parts of said abutment structure.

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1,692,188. GAS-COCK SAFETY DEVICE. CYRIEL ROOSE, St. Clair Shores, and JAMES BENZIE, Detroit, Mich. Filed June 20, 1927. Serial No. 200,060. 2 Claims. (Cl. 251—166.)



1. A gas cock safety device of the class described adapted for use with a gas cock having a shell provided with a recess in its upper edge, a plug rotatably mounted in said shell, and a handle projecting laterally from said plug, comprising: a cup shaped member adapted for seating over said plug and the upper end of said shell and provided with an enlarged opening for accommodating said handle; means carried by said cup shaped member adapted upon axial movement of said cup shaped member relatively to said shell in one direction for engaging in said recess, and upon axial movement in the opposite direction for disengaging from said recess, said plug being non-rotatable relatively to said shell upon engagement of said means in said recess; and means for adjusting the circumferential position of said engagement means relatively to said cup shaped member.

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1,692,189. HERMETIC SEAL. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed May 7, 1926. Serial No. 107,403. 7 Claims. (Cl. 215—56.)



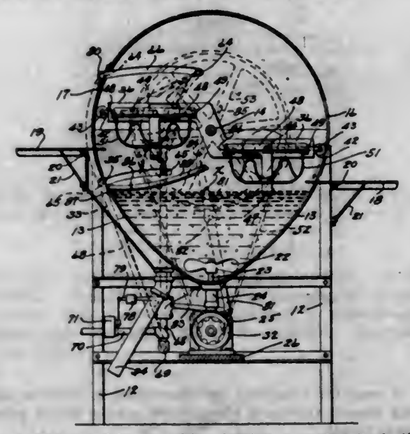
1. As an article of manufacture, a closure cap adapted to be sealed on a container having a cover portion and a skirt portion, and means comprising indentations formed



in said cover portion to support said cap and provide passageways beneath said cap when the cover portion thereof is resting upon the mouth of a suitable container for the exhaustion of air before the cap is hermetically sealed.

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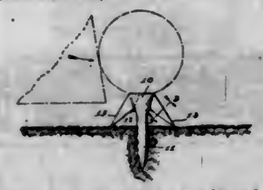
1,692,190. DISHWASHING MACHINE. CHARLES L. TEMPLETON, Minneapolis, Minn. Filed Jan. 6, 1927. Serial No. 159,303. 14 Claims. (Cl. 141—9.)



1. A dish washing machine having a water tank that, in vertical cross-section, is substantially in the form of an ovoid with its apex at the bottom of the tank, and a basket mounted in the tank to swing about a given axis, move radially in respect to said axis and follow the ovoid contour of the tank.

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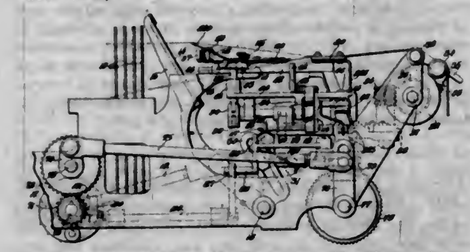
1,692,191. GOLF TEE. PAUL G. TOWSLEY, Indianapolis, Ind. Filed Sept. 6, 1927. Serial No. 217,618. 5 Claims. (Cl. 273—33.)



4. A golf tee, comprising a head adapted to support a ball, a shank rigid with said head and adapted to enter the ground, and an arm extending obliquely downward from said head.

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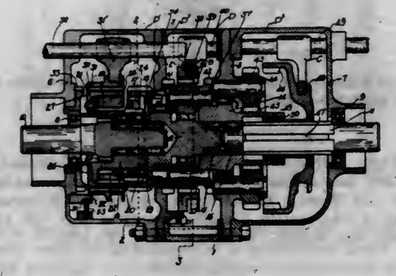
1,692,192. NARROW FABRIC LOOM. JOHN C. WARD, Boston, Mass., assignor to Milton Weaving Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1926. Serial No. 149,482. 5 Claims. (Cl. 139—135.)



1. A narrow web loom, having in combination, a lay, a clutch controlling the operation of the loom, a shuttle race, a shuttle movable therein, means for positively reciprocating the shuttle, a feeler member pivoted upon the shuttle and arranged to be moved into an operative position when the tension upon the filling falls below a predetermined value, a member adapted to be engaged by the feeler member upon movement of the shuttle when the feeler member is in an operative position, a cam adapted to be positioned in the path of the lay by movement of the said member to be engaged by said lay, and connections between the cam and clutch for stopping the loom.

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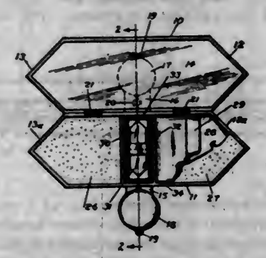
1,692,193. FOUR-SPEED TRANSMISSION. WALTER W. WELLS, Lansing, Mich., assignor to Reo Motor Car Company, Lansing, Mich., a Corporation of Michigan. Filed Feb. 24, 1925. Serial No. 11,271. 5 Claims. (Cl. 74—34.)



1. A transmission comprising a casing having a pair of end bearings and a pair of intermediate bearings, all of said bearings being co-axial, a driving shaft journaled in one end bearing, a driven shaft journaled in the other end bearing, an intermediate revoluble member journaled in one intermediate bearing, a sleeve surrounding said intermediate revoluble member and said driven member and journaled in the other intermediate bearing, antifriction bearings between said driving shaft and intermediate member, antifriction bearings between said driven shaft and said sleeve, antifriction bearings between said sleeve and said intermediate member, gearing between said driving shaft and said intermediate member, gearing between said intermediate member and said sleeve and gearing between said sleeve and said driven shaft.

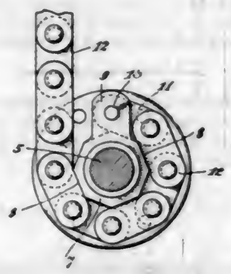
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1,692,194. COMBINATION VANITY CASE. KATHRYN L. ALLISON, Los Angeles, Calif. Filed Aug. 16, 1926. Serial No. 129,360. 5 Claims. (Cl. 132—83.)



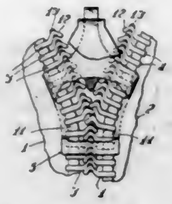
1. A compact formed with a V-shaped terminal.

1,692,195. BUCKET. HERBERT S. ATKINSON, East Orange, N. J., assignor to The Hayward Company, New York, N. Y., a Corporation of New York. Filed Apr. 29, 1925. Serial No. 26,565. 4 Claims. (Cl. 37—184.)



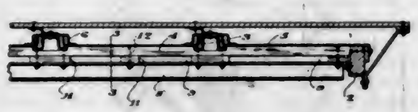
1. In a bucket, a power wheel provided with a hub having a plurality of flat chain bearing surfaces.

1,692,196. SLIDER-OPERATED FASTENER. GEORGE W. BLAIR, Mishawaka, Ind., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Mar. 25, 1926. Serial No. 97,250. 4 Claims. (Cl. 24—205.)



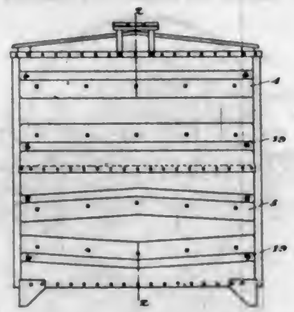
1. In a fastening device of the class described, the combination of opposed series fo fastener elements and a slider operable therealong for interlocking and releasing same, each element having an arched offset extending transversely thereof from one lateral edge to the other lateral edge of the element and terminating at each lateral edge in an added offset forming an added recess in the reverse side of the plate adjacent and opening through the corresponding lateral edge of the element.

1,692,197. LOAD-LIFTING ARRANGEMENT. CHARLES DAVID BONSALL, New Kensington, Pa. Filed Nov. 12, 1926. Serial No. 147,989. 2 Claims. (Cl. 105—355.)



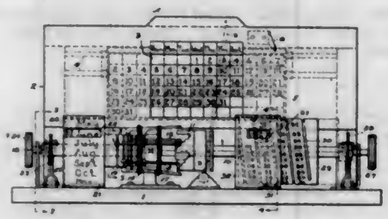
1. In a railway car, the combination of a plurality of carlines, a longitudinally extending frame member, a load lifting beam positioned below said member and spaced apart therefrom, fillers between the member and beam between the carlines secured to the member and the beam, and other fillers between the member and beam below the carlines secured to the member and the beam.

1,692,198. CAR-WALL CONSTRUCTION. CHARLES DAVID BONSALL, Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 22, 1927. Serial No. 214,715. 11 Claims. (Cl. 105—410.)



1. A wall for a railway car comprising a metallic plate having formed therein a plurality of panels within panels of equal length.

1,692,199. CALENDAR. HERBERT S. BOWMAN, Chicago, Ill. Filed Sept. 9, 1927. Serial No. 218,380. 8 Claims. (Cl. 40—107.)

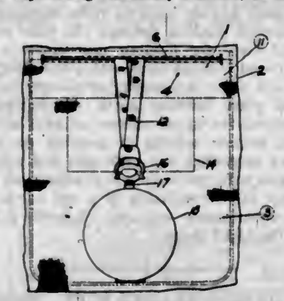


1. A calendar consisting of a movable member carrying thereon columns of numerals representing the days of the month, a fixed member in front of the movable member and having the names of the days of the week in a horizontal row, the fixed member having an aperture therein adapted to expose any seven of said columns of numerals below the said names of the day of the week, and means operatively connected to the movable member for adjusting the said member to indicate a selected month of a selected year and comprising a movable stop carrier having thereon a predetermined number of stops arranged in predetermined order to represent a period of successive years, means to selectively position any one of said stops, a series of stop engaging members, and means to actuate the engaging members selectively, said means being arranged in accordance with the months of a year.

1,692,200. WATCH-LOCK ATTACHMENT FOR POCKETS. CRESCENZO CAPUANO, Los Angeles, Calif. Filed Dec. 15, 1927. Serial No. 240,146. 2 Claims. (Cl. 2—249.)

1. A watch lock for pockets, comprising a strip of tape, having its ends permanently secured to the pocket and forming a loop greater in length than the height of a watch, said tape being relatively narrow, so that the loop





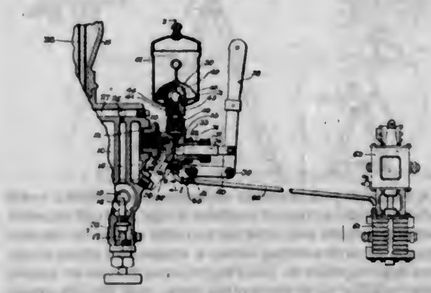
can be conveniently thrust through the ring or ball of a watch and looped about the body of the watch.

1,692,201. HAND GRIP FOR GOLF CLUBS OR THE LIKE. IRA O. DENMAN and CLEMENT W. WATSON, Toledo, Ohio; said Watson assignor to said Denman. Filed Apr. 9, 1928. Serial No. 268,632. 10 Claims. (Cl. 273—81.)



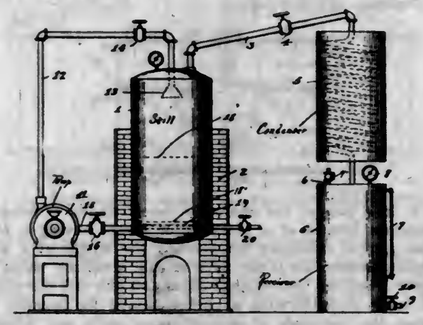
1. A hand grip for a golf club or the like, comprising a member attachable to a player's hand and having a portion engageable with the palm of the hand, and a portion spaced from the palm and engageable with the handle to retain the same against the fingers of the hand.

1,692,202. STEAM-ENGINE LUBRICATOR. PARMER DORSEY, Wichita, Kans., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 3, 1925. Serial No. 34,585. 3 Claims. (Cl. 184—53.)



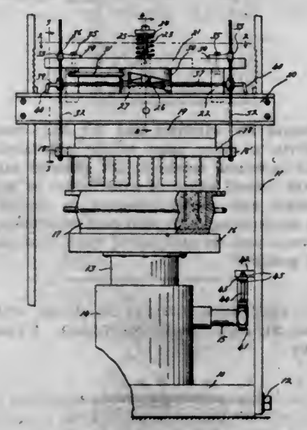
1. In a lubricator, the combination with a reservoir normally containing oil in its upper part and water in its lower part, of means for supplying normal oil-feeding pressure to the reservoir, sight-feed apparatus to carry the oil drop by drop to the part to be lubricated, a supply tank, a force pump connected to draw its supply from the tank, connections from the discharge of the pump to the reservoir, a three-way valve casing having one end screwed into the reservoir and the directly opposite end internally threaded, a hollow bolt closed at its outer end screwed into said opposite end, a valve seat located in the passage between said ends, an outlet between the valve seat and the bolt, a sliding valve adapted to co-operate with said seat and having its outer end in the hollow bolt, and a helically-coiled expanding spring in the bolt beneath the valve, substantially as and for the purpose described.

1,692,203. PROCESS OF TREATING HYDROCARBONS. GUSTAV EGLOFF, Chicago, Ill. Filed July 19, 1918, Serial No. 245,592. Renewed Apr. 21, 1928. 3 Claims. (Cl. 196—54.)



1. A process of treating hydrocarbon oil comprising heating said oil maintained in a substantial liquid body in the presence of aluminum chloride, maintaining a temperature within said body above the melting point of the aluminum chloride and sufficient to vaporize portions of the oil, withdrawing the unvaporized oil and aluminum chloride from the lower part of the liquid body and reintroducing same to the upper part of the liquid body, and continuing such circulation during the treatment, the oil and chloride being returned to the liquid body in an atomized condition.

1,692,204. CLAMP FOR MOLDING MACHINES. WILLIAM J. FIEGEL, Detroit, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Oct. 11, 1926. Serial No. 140,948. 9 Claims. (Cl. 22—47.)

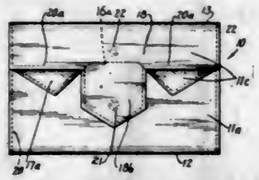


1. The combination with a molding machine and mold part, of a clamping mechanism for said mold part including an adjustable cross head, a pair of clamping elements swingingly mounted on said cross head, means normally urging said clamping elements into operative position,

means automatically operable in one direction of movement of the cross head for moving said clamping elements to inoperative position, and means for adjusting said cross head to permit said clamping elements to engage said mold part to support the same.

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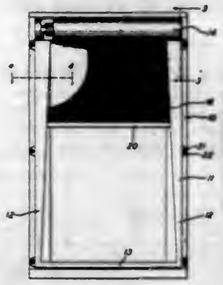
1,692,205. LADY'S HAND AND UNDERARM BAG CONSTRUCTION. LOUIS GOLDSMITH, Brooklyn, N. Y., assignor of one-half to Samuel R. Goldsmith, New York, N. Y. Filed Jan. 24, 1928. Serial No. 248,993. 5 Claims. (Cl. 150—36.)



1. In a bag of the character described, an enveloping structure formed of a plurality of layers having a foldable portion extending transversely the length at a mid-section thereof, an inner layer of said structure being secured along the longitudinal edges and one end thereof to an outer layer forming a pocket having an opening between the free ends of said layers opposite said secured end, an edge portion the free end of said inner layer extending beyond the edge portion of said overlying outer layer to camouflage the visible pocket opening on the exterior side of said structure.

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1,692,206. WINDOW SCREEN. WILLIAM E. GRIFFITHS, Flushing, N. Y. Filed July 12, 1927. Serial No. 205,066. 5 Claims. (Cl. 156—39.)



1. A closure for windows and the like, comprising a flexible fabric, a roller upon which said fabric may be wound and unwound, means at the sides of said window to guide the lateral edges of said fabric as it is wound and unwound, and means attached to the said lateral edges and cooperating with said first-mentioned means to exert a lateral pull on said fabric when it is unwound to the closed position.

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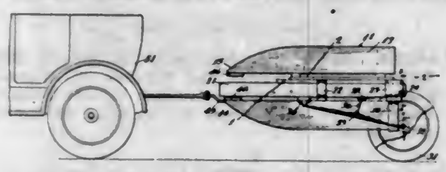
1,692,207. UKULELE. HARRY E. HALL, Chicago, Ill. Filed Dec. 21, 1925. Serial No. 76,589. 3 Claims. (Cl. 84—314.)



1. A stringed musical instrument comprising a wooden sound box and a wooden neck having a flat top, a sheet metal finger plate overlying said neck, the body of said plate being spaced from said neck, the edges of said plate being turned down into abutment with the top of said neck, said plate having integral frets stamped therein, a fastening element passing through the body of said plate between said frets for holding said plate in place, the upper end of said element terminating flush with the upper surface of said plate, a plurality of pockets on the center line of said plate between frets, the bottoms of said pockets abutting the upper surface of said neck, and fillings in said pockets serving as position marks, one end of said plate extending out over said box and being cut off at an angle with the long side remote from the player, and the other end terminating in a nut in the form of a transverse downwardly opening channel with notches stamped in the bight thereof.

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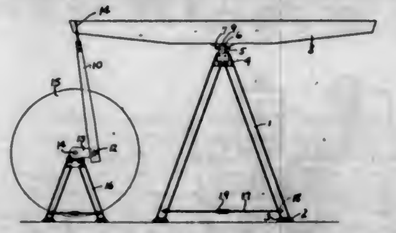
1,692,208. FOLDING TRAILER BOAT. WILLIAM I. HALLOCK, Los Angeles, Calif. Filed Jan. 5, 1928. Serial No. 244,640. 9 Claims. (Cl. 9—2.)



1. In a trailer boat, a folding cockpit comprising forward and aft sections hingedly united, a pontoon comprising a water-tight compartment secured to the bottom of each cockpit section, a spring mounted on each side of one of the cockpit sections and extending aft thereof, an axle carried by said springs, wheels removably journaled upon said axle, and a link pivoted to each spring intermediate the axle and the point of attachment to the cockpit, said links being adapted to optionally be engaged by the bottom of said cockpit to lower the axle or to be released by the cockpit to permit withdrawing the axle above said pontoon.

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1,692,209. SUPPORT. REX G. HAMAKER, Houston, Tex., assignor of one-half to A. M. Bowman, Houston, Tex. Filed June 1, 1925. Serial No. 34,075. 2 Claims. (Cl. 308—25.)



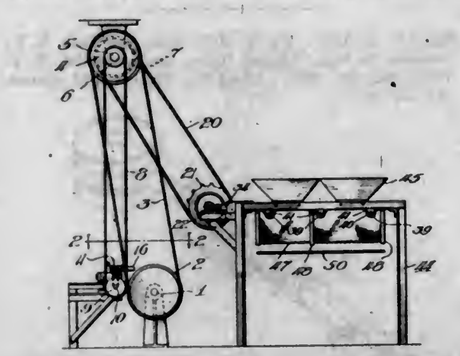
1. A Samson post adapted to support a walking beam comprising a pair of legs of uniform width inclined together at their upper ends and adapted to resist strain in the vertical plane of said walking beam, a supporting plate securing said legs together at their upper ends, means to anchor said legs rigidly to a supporting base, and an adjustable tension member connecting said legs together adjacent the lower ends thereof.

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1,692,210. APPARATUS FOR PRODUCING ROOFING ELEMENTS AND PRODUCT THEREOF. WILLIAM T. HOFMANN, La Grange, Ill., assignor to Beckman-Dawson Roofing Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1926. Serial No. 86,464. 1 Claim. (Cl. 91—18.)

An apparatus of the character described, comprising in combination means for feeding a roofing sheet, means for distributing granular material on spaced areas of said sheet, comprising stationary and movable apertured plates superposed relative each other, a container for granular material mounted above the plates, means for actuating

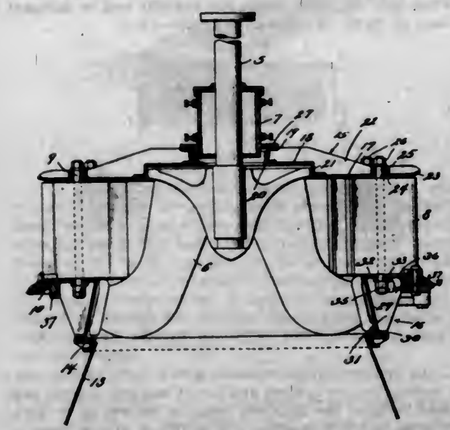




the movable plate to bring the apertures of both plates into and out of registration to cause the granular material to pass through said apertures, and means for continuously changing the speed of movement of said movable plate.

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1,692,211. PLATE-SHEET-STEEL TURBINE FRAME. GEORGE A. JESSOP, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1925. Serial No. 65,709. 8 Claims. (Cl. 253—122.)

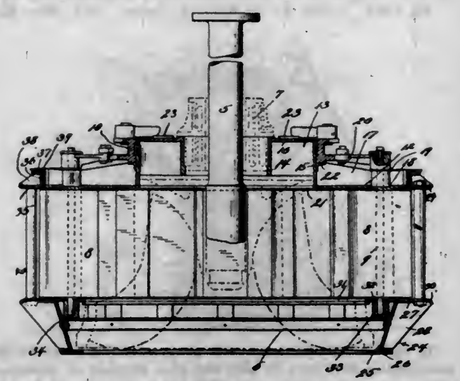


1. In a turbine frame or casing structure, the combination with gates, a runner, a shaft and bearing support for the shaft, of a top covering composed of plate sheet steel comprising outer and inner covering members connected by an interposed angular member, the inner covering member being secured to a part of the bearing support, and a lower supporting organization composed of plate sheet steel, the outer top covering member and lower supporting organization having the gate stems extending therethrough.

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1,692,212. PLATE-SHEET-STEEL TURBINE FRAME. GEORGE A. JESSOP, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1925. Serial No. 65,710. 9 Claims. (Cl. 253—122.)

1. In a frame or casing structure for turbines, the combination with a runner, a shaft for the runner, a support for the bearing for the shaft and a plurality of gates around the runner having projecting stems, of an annular plate sheet steel top covering extending over the gates and a portion of the runner, a central chamber around the bearing support and formed by plate sheet steel members secured to the bearing and top covering, and a lower plate sheet steel annular support below the gates, the gate stems projecting through the top covering and the top portion of the lower support.



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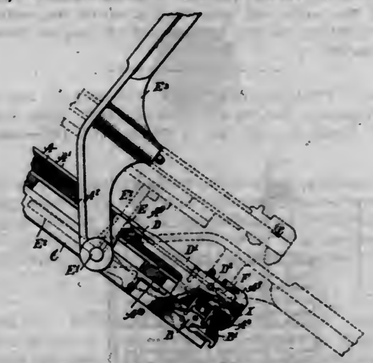
1,692,213. COILING KEY FOR COLLAPSIBLE TUBES. HENRY KIELBERG, Martins Ferry, Ohio. Filed Oct. 3, 1927. Serial No. 223,601. 2 Claims. (Cl. 221—60.)



1. A key-like device of the character described comprising a tubular sheet metal body having at one end thereof a finger-piece whereby said body may be rotated, the confronting edges of said body being correspondingly serrated and spaced apart to form a sinuous longitudinally extending slot adapted for the reception of the flattened end of a collapsible tube.

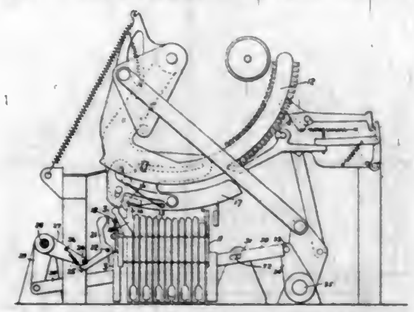
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1,692,214. TYPOGRAPHICAL MACHINE. GEORGE P. KINGSBURY, Hollis, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Apr. 21, 1928. Serial No. 271,734. 9 Claims. (Cl. 199—46.)



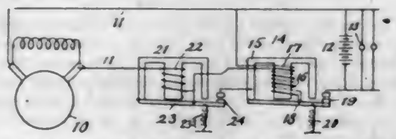
1. In a linotype machine, the combination with a matrix magazine and a bank of escapements therefor, one of said parts being movable out of operative relation to the other, of a locking device to prevent such relative movement, and a rotatable bar associated with the magazine for locking and unlocking the matrices therein, said bar being arranged to engage the locking device and capable of endwise movement to actuate the same.

1,692,215. ZERO-SHUTTER CONTROL FOR PRINTING TABULATORS. WILLIAM W. LASKER, Brooklyn, N. Y., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 29, 1925. Serial No. 26,687. 9 Claims. (Cl. 101—93.)



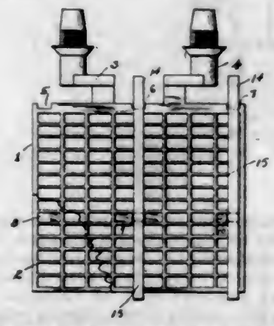
1. In combination, a movable part, selecting members for positioning said part in any one of a number of predetermined positions, a shutter device for holding said part in initial position, means for shifting said device out of the path of said movable part when one of said selecting members functions, and means holding said device in shifted position until said part returns to initial position.

1,692,216. REVERSE-CURRENT CUT-OUT FOR VEHICLE LIGHTING AND BATTERY-CHARGING SYSTEMS. BENNETT M. LEECE, Cleveland, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 10, 1925. Serial No. 74,457 5 Claims. (Cl. 175—294.)



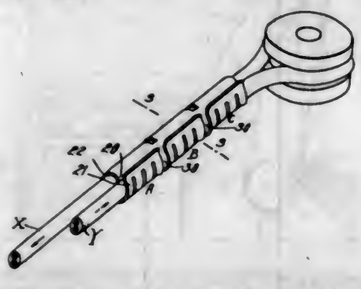
1. In a system such as described, a generator, a battery adapted to be connected thereto, a reverse current cut-out between the generator and battery and comprising a movable switch member and series and voltage coils, and means for preventing the switch member being held in closed position by the passage of heavy battery current through the series coil comprising a switch responsive to a flow of battery current for reducing the ampere turns of the series coil.

1,692,217. STORAGE BATTERY. THOMAS E. MCCARTY and HAROLD E. SALISBURY, Oakland, Calif. Filed Aug. 7, 1926. Serial No. 127,744. 1 Claim. (Cl. 136—143.)



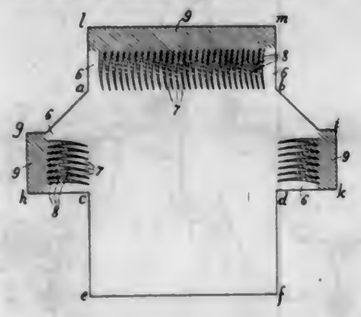
A storage battery with positive and negative plates having notches on the top of the plates and holes therethrough, insulating combs adapted to fit in said notches with teeth extending below the holes in the plates, and lugs in register with the holes to lock said combs and to hold the plates together.

1,692,218. CLAMP. ROY E. MCINTOSH, New York, N. Y., assignor to John Edward Ogden, Mountainville, N. Y. Filed Aug. 28, 1926. Serial No. 132,124. 16 Claims. (Cl. 23—123.)



1. A clamp, S-shaped in section and comprising a central web and bendable side portions and means for firmly gripping the strands in the side portions when said portions are forced toward the central web, said means including perforations in the central web and inwardly extending projections in the side portions.

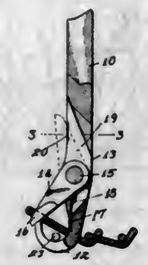
1,692,219. ENVELOPE AND OTHER ARTICLE OF PAPER. LADISLAW MEDVECZKY, Rakoshegy, Hungary. Filed Nov. 17, 1926, Serial No. 148,960, and in Hungary Nov. 21, 1925. 5 Claims. (Cl. 229—81.)



1. An article of paper consisting of a body portion having sealing incised borders and intact margins outside said incised borders, the incisions being so formed as to separate from said body portion a plurality of strips temporarily connected with one another by said margins but becoming independent of one another when said margins are cut off.

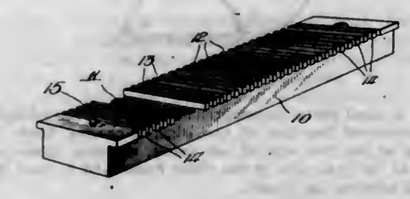
1,692,220. NEEDLE FOR REPAIRING RUNS IN KNITTED GOODS. CARL E. B. OSBERG, Des Moines, Iowa, assignor to Rollins Hosiery Mills, Des Moines, Iowa, a Corporation of Iowa. Filed May 10, 1927. Serial No. 190,244. 2 Claims. (Cl. 66—117.)

1. A knitting needle comprising a body portion having one end terminating in a hook, said body portion being provided with a central slot between its back and front edges and adjacent to the inner edge of said hook, a latch having one end pivoted in said slot and its free end designed to overlap the free end of said hook, yieldable means mounted entirely within the inner end of said slot between the latch and said hook to be engaged by the inner edge of said latch when it is moved to a nearly closed position for automatically throwing said latch to an open position, the forward edges of the upper end of the side members of said slot being bent slightly inwardly and the body portion



of said latch being adapted to frictionally engage the inwardly bent portions of said side members when moved to its open position.

1,692,221. ELECTRIC BURNER. CLARK M. OSTERHELD, Stoughton, Wis., assignor to McGraw Electric Company, Omaha, Nebr., a Corporation of Delaware. Filed Nov. 22, 1924. Serial No. 751,466. 15 Claims. (Cl. 219—37.)



1. A burner for electric devices comprising, in combination, two pairs of heating units placed side by side but insulated from each other; said heating units comprising each an insulating body and a resistance wire mounted thereon; the inner pair of units being connected in parallel and the outer pair of units likewise connected in parallel; and a single switch connected, constructed and arranged to control the current through all the units and independently to open and close the circuit including the two outer units.

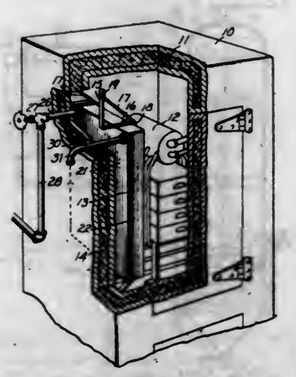
1,692,222. METHOD OF DECORATING FISH LURES. JOHN B. PAGIN, South Bend, Ind., assignor to The South Bend Bait Company, a Corporation of Indiana. Filed Aug. 8, 1927. Serial No. 211,288. 3 Claims. (Cl. 41—38.)



1. The process of decorating fish baits, which comprises forming impressions representing scales on the surface of the bait body, applying a coating of paint over said surface, filling the depressed scale-like portions with a protective layer of non-coherent material, applying a coating of a distinctively colored paint over the bait surface and removing the protective layer with whatever paint may be adhering thereto.



1,692,223. FOUNTAIN TANK. HOWARD K. PINKERTON and FREEMAN L. RHYNDRESS, Kansas City, Mo. Filed Oct. 14, 1926. Serial No. 141,505. 5 Claims. (Cl. 62—141.)



1. In a device of the character described, an insulated receptacle, refrigerating means therein, a tank mounted in said receptacle, an outlet connection therefor and a valved water inlet leading into said tank, said outlet connection being continuously open.

1,692,224. AMINO AROMATIC ESTERS FOR USE AS ANÆSTHETICS AND METHOD OF MAKING SAME. EDUARD RITSERT, Frankfort-on-the-Main, Germany. Filed Apr. 27, 1926, Serial No. 105,015, and in Germany May 14, 1925. 6 Claims. (Cl. 260—105.)

1. The method of producing an antiseptic and anæsthetic comprising combining an aromatic amino carboxylic acid ester with a compound containing a halogenated non-aliphatic sulfo acid radical.

1,692,225. TOE END. GLADYS M. ROBERTS, St. Paul, Minn. Filed July 23, 1927. Serial No. 208,386. 12 Claims. (Cl. 36—1.)

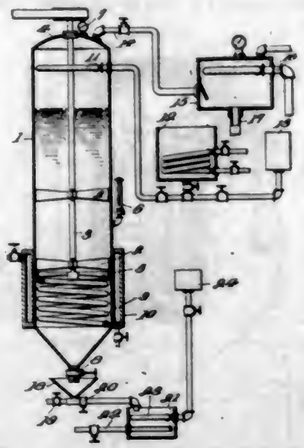


1. In combination with the convex toe of a dancing shoe, a pad secured thereto, said pad consisting of spirally arranged rows of material interconnected at suitable intervals to allow the same to flex so as to cause the pad to adjust itself to the convex form of said shoe toe.

1,692,226. PROCESS OF TREATING OILS. ALEXANDER SCHWARCMAN, Buffalo, N. Y., assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y., a Corporation of New York. Filed June 3, 1925. Serial No. 34,633. 5 Claims. (Cl. 87—12.)

1. The process of purifying vegetable oils which comprises agitating a body of such an oil with an aqueous caustic alkali solution in about the amount corresponding to the free fatty acids present, allowing the mixture to stand quiescent for a definite time less than that required to effect settling but sufficient to permit agglomeration of

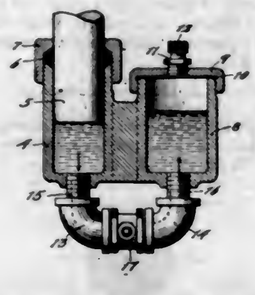
the solid soaps formed by the agitating action, raising the temperature of the oil to a point near but below 212° F.,



passing hot water therethrough in finely divided form until the oil is neutral, and removing the water solution.

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1,692,227. SHOCK ABSORBER AND THE LIKE. JOHN C. SEGELER, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,385. 1 Claim. (Cl. 267—64.)

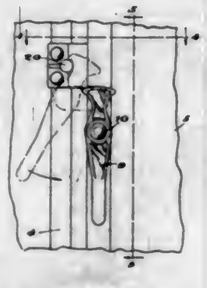


A shock absorber for the purpose specified comprising, in combination, a cylinder, a piston working therein, a closed chamber, a single passage connecting the lower portion of the cylinder with the lower portion of said chamber, oil occupying the space within the cylinder beneath the piston and also the single passage aforesaid and the lower portion of the chamber, there being an air pocket in the upper portion of the chamber, and a control valve in the single passage aforesaid between the cylinder and chamber, substantially as and for the purpose described.

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1,692,228. SIDING-DOOR OPENER AND CLOSER. ARTHUR E. SMALL, Chicago, Ill., assignor, by mesne assignments, to Railway Metal Products Company, a Corporation of Delaware. Filed Oct. 22, 1923. Serial No. 670,008. 9 Claims. (Cl. 268—44.)

1. In a railway car having a wall with a door opening therein, a door arranged to move horizontally to open or close said opening, a projection on the car wall, and a lever flexibly fulcrumed by a link to said door, the parts arranged so that said lever may be contacted with either side of said projection to initially open or close said door,



said lever being free to fall out of contact with said projection when released.

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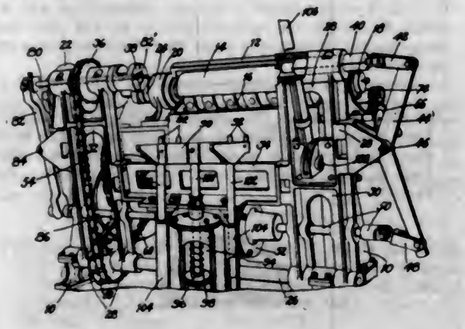
1,692,229. PLANT PROTECTOR. SAMUEL K. SMITH, New Brighton, Pa. Filed Mar. 30, 1928. Serial No. 265,865. 4 Claims. (Cl. 47—28.)



1. A plant protector comprising a pair of frames hingedly connected together at one edge, anchoring hooks located at the free edge of one frame, securing hooks carried at the free edge of the other frame and a sheet disposed between the frames.

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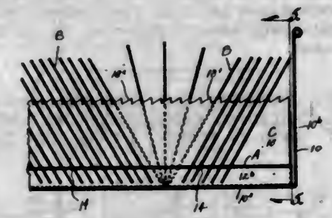
1,692,230. WOODWORKING MACHINERY. WALLACE W. STODDARD, Bingham, Me., assignor to United Shank & Findings Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1923. Serial No. 610,588. 8 Claims. (Cl. 142—40.)



1. A wood working machine comprising, in combination, a cutter, a frame movable toward and from the cutter, relatively movable head and tail stocks carried by the frame and arranged to grasp by its ends a bolt of wood, a drill constructed and arranged to operate axially of the bolt of wood, means for advancing the tail stock and the drill, a spring for returning the tail stock, and a stronger spring for returning the drill.



1,692,231. RECORD FILE. HARVEY P. THOMPSON, Des Moines, Iowa. Filed Dec. 19, 1927. Serial No. 241,011. 8 Claims. (Cl. 129—10.)

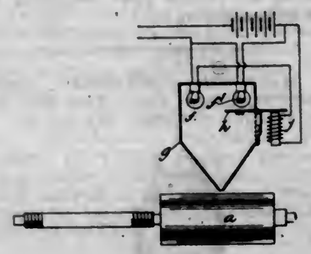


1. In a record file, a case having a bottom, a plurality of divider members, means for pivotally supporting the divider members above the bottom of the case, said divider members having downward extensions and being pivoted at such distances from each other that the swinging of one divider member causes its extension to engage the extension of the next divider member for moving such next divider member.

7. In a structure of the class described, a case, a false bottom therefor having a plurality of slots, divider plates having downward extensions received in said slots, each plate having at its lower edge a notch, and an upright rail extending into said notch.

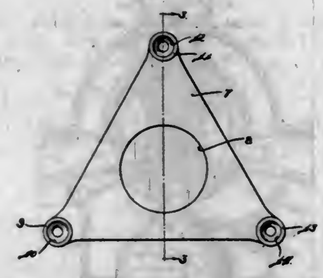
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1,692,232. PICTURE-TRANSMISSION SYSTEM. THOMAS THORNE BAKER, London, England, assignor of one-third to Charles Henry Watson and one-third to Frederick William Watson Baker, London, England. Filed Dec. 10, 1925, Serial No. 74,591, and in Great Britain Dec. 11, 1924. 1 Claim. (Cl. 178—7.)



In a receiving set for use in the telegraphic transmission of pictures, diagrams and other impressions in which signals from the transmitting station are produced by a spot of light progressively traced over the picture to be transmitted the rays from said spot being caused to act upon a light-sensitive cell which is included in a circuit adapted for the emission of signals, and the said signals are received by the said receiving set and utilized therein for varying the intensity of the light from an electric lamp, a second lamp, a movable mask normally operative for obscuring the light from said second lamp, electro-magnetic release means under control of the circuit of the first lamp and adapted for bringing about the removal of the mask from the second lamp when the first lamp fails, and light-directive means adapted for concentrating the light from either of the lamps on to a spot on a sensitive layer progressively advanced in relation to such spot simultaneously and synchronously with the advancement of the picture at the receiving station.

1,692,233. GOLFING TEE. PAUL F. VAN PATTEN, Detroit, Mich., assignor to Sterling H. Campbell, St. Louis, Mo. Filed May 7, 1928. Serial No. 275,887. 5 Claims. (Cl. 273—33.)



1. A golfing tee of the class described, comprising: a triangular shaped plate; and a plurality of tees projecting outwardly from one face thereof, each at one corner of said plate.

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1,692,234. ADJUSTABLE STREET SIGN. WALTER K. VOORHEES, Cedar Falls, Iowa, assignor to Standard Manufacturing Company, Cedar Falls, Iowa. Filed Aug. 9, 1926. Serial No. 128,100. 1 Claim. (Cl. 40—145.)



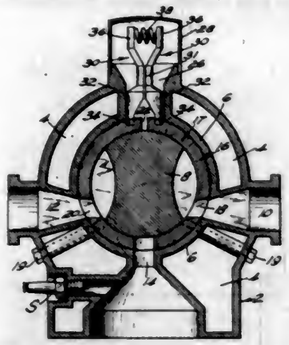

In combination, street signs superposed and separately connected for desired angular relations, the upper sign having an imperforate integral depending socket projection having interiorly threaded holes at a radial angle from each other, the lower sign having an upwardly directed boss inserted in and to fit the said socket projection and having an annular groove alined with said threaded holes, set-screws mounted in said holes to terminally engage said groove, and the lower sign having a flat top annular part around the base of said upward projection upon whose top the lower rim of said socket projection is sealingly seated, whereby the upper sign may be rotated upon said annular part and secured at a desired angle upon said lower sign with its joint connection to the lower sign sealed against entrance of moisture or other elements.

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1,692,235. VALVE CONSTRUCTION. RUDOLPH WEHR, Los Angeles, Calif., assignor to Wehr Motor Company, a Corporation of California. Filed May 9, 1927. Serial No. 189,974. 11 Claims. (Cl. 123—190.)

1. In a valve construction, in combination, a valve casing, an integral liner in said casing, a valve adapted to be rotated in said liner, and a peripherally movable

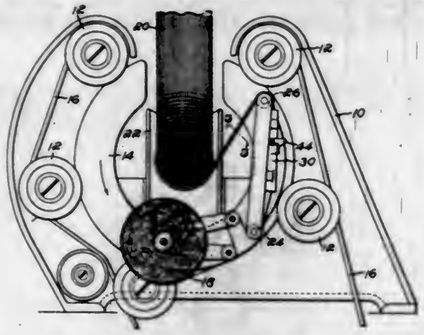
compensating device integral with said liner, and embracing substantially the entire periphery of said valve,



for compensating for the effect of the temperature changes and wear to which said valve construction is subjected.

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1,692,236. MEANS AND METHOD FOR REENFORCING THE EDGES OF STRIP MATERIAL. WILLIAM M. WHEILDON, Framingham, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Aug. 20, 1926. Serial No. 130,478. 12 Claims. (Cl. 270—93.)



1. A device of the class described comprising a guide for the paper including a series of scrolls, each making at least a complete turn, disposed in spaced relation along a line oblique to the path of travel of the paper.

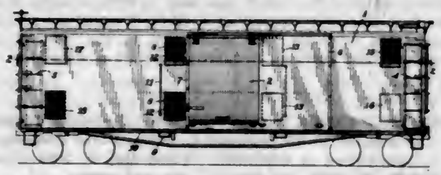
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1,692,237. ORGANIC COMPOUND OF MERCURY AND PROCESS OF PRODUCING SAME. EDWIN C. WHITE, Baltimore, Md. Filed Jan. 27, 1927. Serial No. 164,135. 14 Claims. (Cl. 260—13.)

1. Mercury derivatives of sulfon-fluorescein.

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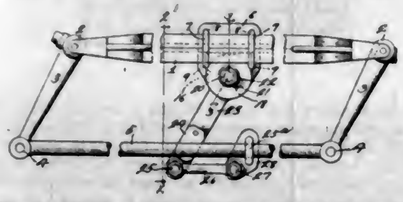
1,692,238. VENTILATED FREIGHT CAR. WILLIAM E. WINE, Toledo, Ohio. Filed Nov. 9, 1925. Serial No. 67,821. 1 Claim. (Cl. 96—6.)



A freight car of the closed box car type, provided with the usual doors and usual diagonally disposed ladders, ventilators arranged in the sides of the car adjacent the door openings, said ventilators arranged in diagonal relation to each other, further ventilators in each of the sides of the car and disposed in the upper corners of the car and near their respective adjacent ladders and a further ventilator on each side of the car and near the lower corner thereof and these last mentioned ventilators being substantially diametrically across the car from the nearby ladder.

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1,692,239. ANTIRATTLING DEVICE. RUDOLPH A. WOERPEL and HENRY KNOPP, Sawyer, Wis. Filed Feb. 9, 1927. Serial No. 166,870. 1 Claim. (Cl. 280—89.)



The combination with an axle, a connecting rod disposed adjacent one side of said axle, of an antirattling and wobbling device, said device comprising a bracket carried by the axle, an arm pivotally connected to the bracket, means for frictionally holding said arm at its pivotal point, said arm slidably and frictionally engaging one side of the connecting rod, a bracket carried by the connecting rod spaced from the arm and a link connection between said last named bracket and the arm.

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1,692,240. CADMIUM-PLATING BATH. ARTHUR WHITE YOUNG and MAURICE EMERSON LOUTH, Kokomo, Ind., assignors to Udylite Process Company, Kokomo, Ind., a Corporation of Indiana. Filed Mar. 31, 1926. Serial No. 98,914. 5 Claims. (Cl. 204—1.)

1. In the art of cadmium plating, the process which comprises electroplating cadmium from a cyanid bath in the presence of an addition agent comprising a cereal extract and caramelized sugar.

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1,692,241. DIAGNOSTIC INSTRUMENT. CHARLES E. H. ARMBRUSTER, Denver, Colo. Filed May 14, 1923. Serial No. 638,847. 17 Claims. (Cl. 88—20.)



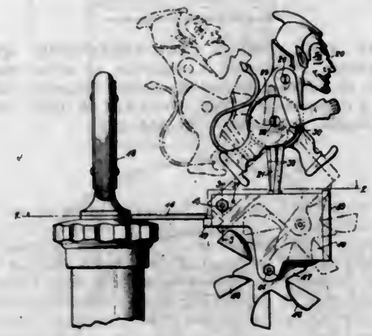
6. In a diagnostic instrument, a source of light, an enclosing element having a reflective surface to direct the light rays from the source to one focal point, and having an aperture co-incident with said point, and a light-transmitting element in said aperture adapted to condense the light rays within itself and become a secondary source of light.

9. In a diagnostic instrument, a reflector having a peep-hole, a member having in alinement with said peep-hole an opening to which the eye of the operator is applied, and a light-obstructing open-ended funnel extending forwardly from said opening and terminating in close proximity to the peep-hole of the reflector.

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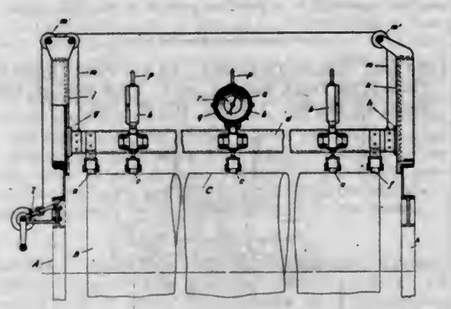
1,692,242. MOTOR-ACTUATED TOY. LOUIS V. ARONSON, Newark, N. J. Filed Aug. 14, 1926. Serial No. 129,255. 6 Claims. (Cl. 46—40.)



1. A motor toy comprising, in combination, a body, limbs pivoted on said body, a motor housing, a support for the body mounted on said housing, a motor wheel, a train of gears actuated by said motor wheel, a pitman wrist pin carried by one of said gears, a link pivoted near the top of the housing, a pitman connecting said link and pin, pins on certain of said limb members, rods connecting said pins on the limbs and said link, other pins on the limbs having the connecting rod pins, slide-ways on the other limbs engaging said other pins, whereby when the motor wheel is rotated an oscillating motion is imparted to said limbs.

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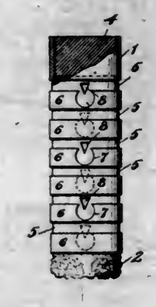
1,692,243. MEASURING APPARATUS FOR THE THICKNESS OF WEBS. WILHELM BECKMANN, Duisburg, and ALFRED SCHOPPER, Leipzig, Germany; said Beckmann assignor to said Schopper. Filed May 16, 1927. Serial No. 191,791, and in Germany Feb. 19, 1925. 1 Claim. (Cl. 33—172.)



Web-making machine comprising a frame, a web supporting cylinder in said frame, a carrier, anti-friction means for supporting said carrier on said cylinder by gravity, guides in said frame in which said carrier is adapted to reciprocate, means for lifting said carrier, a measuring instrument on the carrier, and a feeler on said measuring instrument supported on said cylinder.

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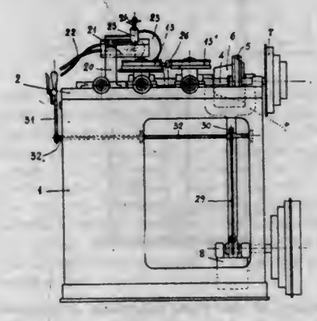
1,692,244. SCOURING DEVICE. JULES J. BAELL, New York, N. Y. Filed Jan. 15, 1927. Serial No. 161,277. 5 Claims. (Cl. 15—210.)



1. An article of the class described comprising a holder for a metallic wool abrasive, said holder being composed of a tubular casing provided with spiral exterior ribs, said casing being provided with a plurality of struck out tabs produced by the severance of some of said ribs.

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1,692,245. ELECTRIC MACHINE FOR WELDING METALLIC TUBES OR PIPES. FRANCESCO BRERO, Turin, Italy. Filed Oct. 25, 1926, Serial No. 144,089, and in Italy June 22, 1926. 11 Claims. (Cl. 219—6.)



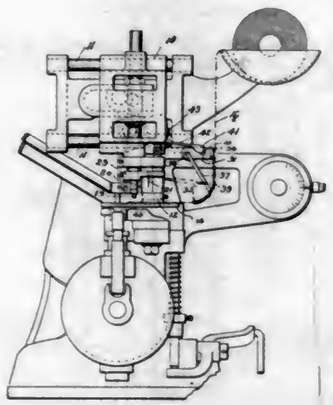
1. In a machine for electrically welding metallic tubes, the combination with feed rollers, roller electrodes, and a device for adjusting the direction of the line of the weld, of a hammering device acting upon the welded seam directly after the electrodes and between the feed rolls and actuated in tune with the tube feed.

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1,692,246. LACING-STUD-SETTING MACHINE. GEORGE W. BROWN, Quincy, Mass., assignor to Tubular Rivet & Stud Co., Boston, Mass., a Corporation of Massachusetts. Filed Nov. 22, 1923. Serial No. 676,278. 18 Claims. (Cl. 218—17.11.)

6. In a machine for setting lacing studs in shoe uppers, reciprocating means for feeding a shoe upper, means connected to said feeding means for feeding a strip of rein-

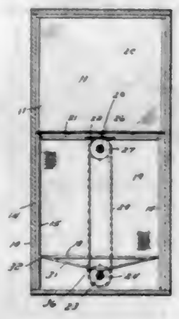
forcing tape, auxiliary means cooperating with said strip feedling means to assist in advancing the strip a distance



greater than the feeding movement of the upper, and means for setting studs into the upper and strip.

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1,692,247. COMBINED WINDOW AND SCREEN OPERATING MECHANISM. RAGNA CLEVELAND, Kelly, Iowa. Filed July 19, 1926. Serial No. 123,507. 4 Claims. (Cl. 268—128.)

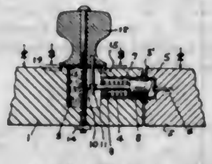


1. In a device of the c'ass described, a window frame having guide members, a screen frame slidably mounted between said guide members, said screen frame including a pair of oppositely disposed channel members, a window pane slidably mounted in said channel members, an endless flexible member having parallel runs supported adjacent to one side of said window and screen frame, means for operating said endless flexible member, and means carried by said endless member for independently or simultaneously operating said window and said screen frame.

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1,692,248. CABINET LATCH. ALEX C. D'ALFONSO, Santa Barbara, Calif. Filed Jan. 21, 1927. Serial No. 162,474. 7 Claims. (Cl. 292—169.)

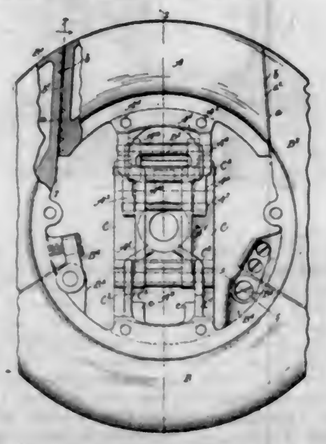
1. A cabinet latch comprising an operating handle, a rod passing freely through the handle and adapted for passing through a panel for securing thereto, a spacing plate on said rod adapted to be clamped against the face of the panel while retaining freedom of the handle on the rod thereabove, a latch bolt member slidably arranged in the panel at right angles to the rod, and a pin extending from



said handle into a space within the panel engaging an extension of said latch bolt member for slidably moving the same upon twisting the handle.

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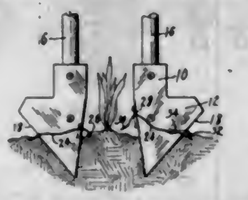
1,692,249. COLLAPSIBLE CORE STRUCTURE. PETER DE MATTIA, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 12, 1927. Serial No. 183,036. 12 Claims. (Cl. 154—9.)



1. A collapsible core comprising a key section and a plurality of secondary sections adapted to be sustained in a position of operative continuity, said key section being movable inwardly and also to a position outside of the plane of the core, a rotatable support for said core, and an actuating member pivotally sustained by the rotatable support and pivotally connected to the key section, the latter being free when drawn inwardly by the movement of the actuating member to swing about its pivotal connection therewith to a position outside of the core plane.

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1,692,250. SELF-CLEANING CULTIVATOR SHOVEL. JACOB J. DE VRIES, Sanborn, Iowa. Filed Sept. 30, 1926. Serial No. 138,654. 1 Claim. (Cl. 97—203.)



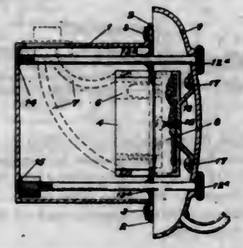
In a device of the class described, a blade having one slanting edge and one substantially vertical thickened edge, said slanting edge being sharpened whereby weeds may be cut therewith when the blade is used as a cultivator shovel,



said substantially vertical thickened edge being rounded whereby roots catching on the blade will slip upwardly along the substantially vertical edge for causing one end of the root to be pulled from the ground after which the root will be pulled across the face of said blade and will not catch thereon, said root in being so pulled, serving to keep said blade clean.

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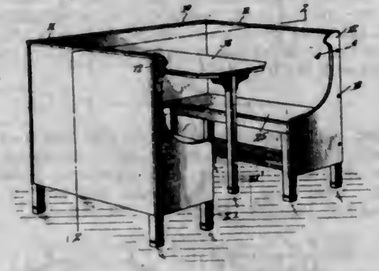
1,692,251. ELECTRICAL WALL-BRACKET SUPPORT. HENRY D'OLIER, Jr., Bridgeport, Conn. Filed Feb. 16, 1927. Serial No. 168,690. 3 Claims. (Cl. 173—338.)



1. An electrical apparatus comprising a current outlet box, a bridge piece carried by the box, a connector receptacle member supported by the bridge piece, a connector plug member adapted to be received by the receptacle member, a lamp supporting bracket plate covering the plug member and secured solely and directly to the bridge piece by means passing through the bracket plate, which may be manipulated outside said plate to secure the latter in a predetermined relation to the outlet box.

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1,692,252. KNOCKDOWN REFRESHMENT BOOTH. ARTHUR W. EICHMAN, Decatur, Ill., assignor to Adolph Mueller, trustee, Decatur, Ill. Filed Mar. 7, 1927. Serial No. 173,476. 5 Claims. (Cl. 45—31.)

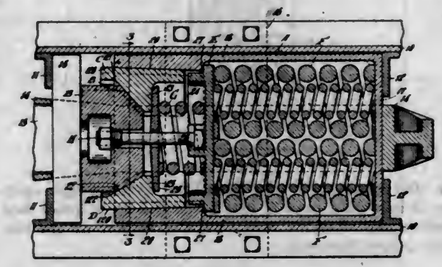


1. A knock-down booth having in combination a rear frame, side frames and spaced front frames, said side frame having members extending from the ends thereof and adapted to fit in complementary formed openings in said front and rear frames, detachable means secured to said members and substantially flush with the exposed surfaces of said front and rear frames, a seat extending parallel to each of the side frames, plate members secured to the inner walls of said frames, and means detachably connected to said plate members and extending through openings in said seats for securing the latter to the frames.

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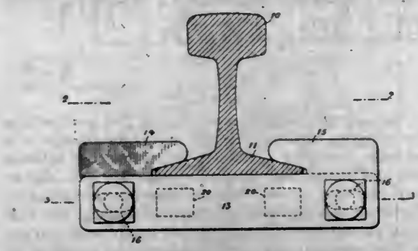
1,692,253. FRICTION SHOCK-ABSORBING MECHANISM. FREDERICK F. ERICKSON, Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 18, 1926. Serial No. 155,576. 6 Claims. (Cl. 213—32.)

1. In a friction shock absorbing mechanism, the combination with a column element; of friction shoes; said shoes and column having co-operating sets of friction surfaces, said shoes being slidable lengthwise of said column, said column also having additional surfaces; a wedge pressure transmitting block, said block and element being relatively movable longitudinally of the mechanism, said block and shoes having co-operating sets of wedge faces, said sets of co-operating friction surfaces and sets of co-operating wedge faces being of guide and groove formation confining said wedge block, shoes and column element to relative longitudinal movement only whereby said additional surfaces are maintained inactive; and spring resistance means yieldingly opposing relative longitudinal movement of the column element and shoes.



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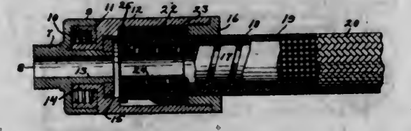
1,692,254. RAIL JOINT. CHARLES K. FREER, Fond du Lac, Wis. Filed Oct. 11, 1927. Serial No. 225,560. 7 Claims. (Cl. 238—249.)



1. A rail joint including a pair of members for disposition under and transversely of rails to be joined, the tops of said members providing a seat for the bottoms of the rail flanges, rail-flange engaging hooks at opposite ends of the respective members, said members at their ends having transverse bolt holes therein through which bolts of smaller size than the openings are adapted to be passed to secure the members together, and means whereby the hooks are forced into clamping engagement with the rail flanges as the bolts are tightened to draw the two members toward each other.

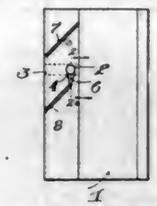
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1,692,255. UNIVERSAL GREASE GUN. WILLIAM H. FULTON, Irvington, N. J., assignor, by mesne assignments, to Titeflex Metal Hose Co., a Corporation of New Jersey. Filed Dec. 12, 1921. Serial No. 521,606. 6 Claims. (Cl. 281—97.4.)



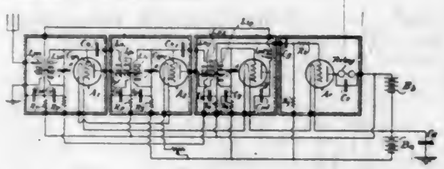
1. An outlet for a universal grease gun having a grease reservoir and means for forcing the grease from said reservoir, said outlet having a flexible grease resistant conduit and a covering fluid tight and flexible but less resistant to grease than said conduit.

1,692,256. SLIT BLOCK. RICHARD HALPENNY, Washington, D. C., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1927. Serial No. 175,067. 11 Claims. (Cl. 179—100.1.)



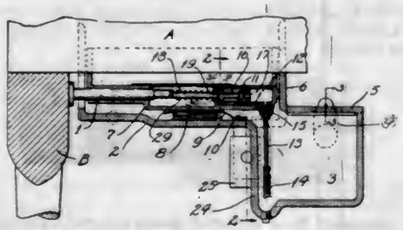
4. The combination with a slit block having a light aperture of grooves formed in said block above and below said aperture for removing dirt from the surface of the film which passes thereover.

1,692,257. WAVE SIGNALING SYSTEM. LOUIS A HAZELTINE, Hoboken, N. J., assignor to Hazeltine Corporation, a Corporation of Delaware. Original application filed Feb. 27, 1925, Serial No. 12,000, Patent No. 1,648,808, and in Canada May 4, 1925. Divided and this application filed Oct. 31, 1927. Serial No. 229,912. 4 Claims. (Cl. 179—171.)



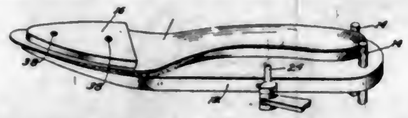
1. In an electric circuit arrangement for neutralizing capacity coupling between the grid and plate circuits of a vacuum tube, including a primary coil connected between the plate and the filament system, a secondary coil, and an auxiliary coil and a neutralizing capacity connected in series between the grid and the filament system, the auxiliary and primary coils being utilized under such circumstances that substantially unity coefficient of coupling between their circuits is not present, the method of securing substantially complete neutralization, which comprises arranging said coils so that the ratio of the mutual inductance between the secondary coil and the auxiliary coil to the mutual inductance between the secondary coil and the primary coil is equal to the ratio of the mutual inductance between the auxiliary coil and the primary coil to the self-inductance of the primary coil and so that said ratios are also equal to the ratio of the coupling capacity to the neutralizing capacity.

1,692,258. LUBRICATOR. JAMES J. HENNESSY, New York, N. Y. Filed Sept. 10, 1925. Serial No. 55,603. 20 Claims. (Cl. 308—84.)



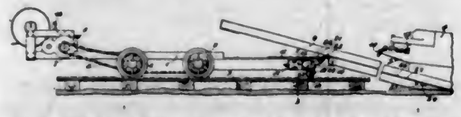
1. In a journal lubricator, a lubricant distributing chamber adapted to underlie the journal to be lubricated, a lubricant reservoir extending substantially below the level of the bottom of said chamber, a pump positioned in said chamber and including an intake member extending downwardly into said reservoir, and a removable wall on the upper portion of said reservoir whereby said pump may be removed from the lubricator while the same is applied to a journal.

1,692,259. MACHINE FOR OPERATING ON FILLER PIECES FOR SHOES. GEORGE H. HEYS, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 17, 1923. Serial No. 657,935. 25 Claims. (Cl. 12—25.)



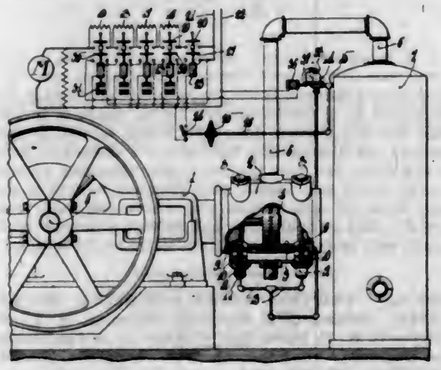
2. In a machine for operating upon filler pieces for shoes, a stock trimming device, and means for supporting a filler piece and relatively moving and guiding the filler piece and said device to cause the latter to trim the toe and forepart of the filler piece without trimming any of the remaining portion of the filler piece.

1,692,260. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 18, 1919, Serial No. 305,149. Renewed Oct. 4, 1923. 57 Claims. (Cl. 105—161.)



1. In a mining apparatus, a wheeled truck adapted to carry a load reciprocably thereon and to move along track rails, and supplemental track rail engaging supporting means for the front end thereof and including supporting means extending transversely of the apparatus into the path of the truck wheels in front of the latter and engageable with the track rails.

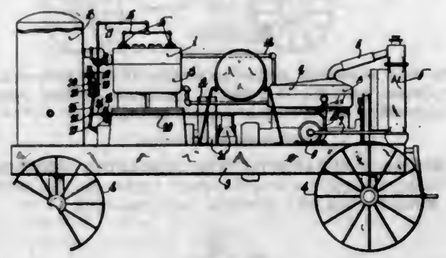
1,692,261. COMPRESSOR-CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 30, 1922, Serial No. 532,681. Renewed July 19, 1928. 13 Claims. (Cl. 230—4.)



1. In a compressor controlling system, a compressor, electric driving means therefor, pneumatic unloading means for said compressor, controller means for said driving means, and means controlled by said controller means for controlling said unloading means and comprising means constantly biased toward one of its positions by compressor discharge pressure.

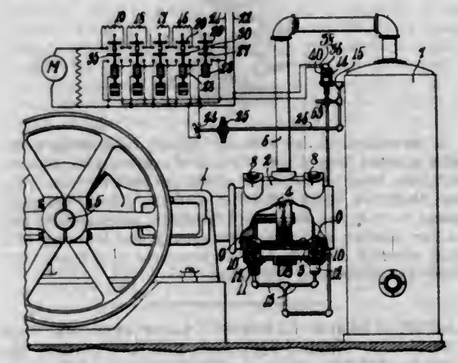


1,692,262. COMPRESSOR-UNLOADING MECHANISM. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 31, 1923. Serial No. 683,615. 17 Claims. (Cl. 230—3.)



1. The combination comprising a compressor having gaseous fluid actuated unloading means, an engine for driving said compressor, means for normally circulating a cooling liquid for said engine the pressure of which increases with the speed of said engine, and means whereby said liquid controls actuation of said unloading means.

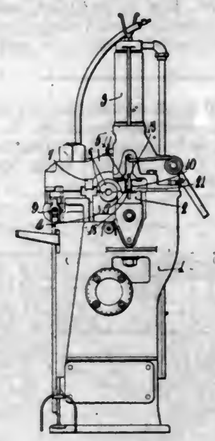
1,692,263. COMPRESSOR-CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 25, 1924, Serial No. 688,632. Renewed June 6, 1928. 10 Claims. (Cl. 230—4.)



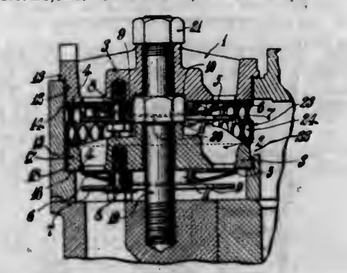
1. In a compressor controlling system, a compressor, electric driving means therefor, pneumatic unloading means for said compressor, comptroller means for said driving means, and means including a spring controlled by said controller means for controlling said unloading means, and comprising means constantly biased toward one of its positions by compressor discharge pressure.

1,692,264. PIN EXTRACTOR FOR FORGING MACHINES. FRANK A. HALLECK, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Original application filed July 30, 1920, Serial No. 400,121. Divided and this application filed Sept. 9, 1924. Serial No. 736,796. 12 Claims. (Cl. 29—86.1.)

1. Mechanism for removing a pin from a hollow drill steel comprising a movable member, a gripping means pivotally supported and actuated thereby for engaging one of the elements to be separated, and means for guiding the said movable member to move in a direction transversely of the longitudinal axis of the member being gripped.

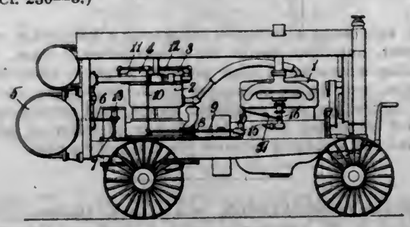


1,692,265. VALVE SHIELD. HJALMAR T. BLOM, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 28, 1925. Serial No. 26,513. 7 Claims. (Cl. 230—231.)



1. In combination, a plurality of coaxially disposed valve mechanisms each including seat, valve and guard members, and broken valve part guard means disposed between the adjacent sides of said mechanisms and held in position by said mechanisms jointly.

1,692,266. CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Sept. 15, 1925. Serial No. 56,538. 15 Claims. (Cl. 230—3.)

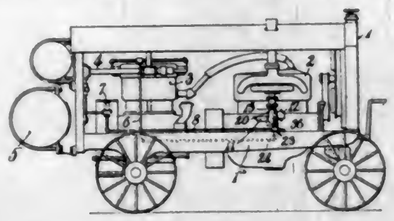


1. A controlling mechanism comprising a controlled element, a cylinder, a fluid responsive piston therein adapted to have operative connection with said element, a conduit for leading pressure fluid to said cylinder, a second conduit leading from said cylinder, the said piston being movable

in said cylinder so that in one position the flow of fluid to said second conduit is obstructed by said piston and in another position the flow is permitted, and means for maintaining fluid pressure in said second conduit during release of the actuating fluid pressure for said piston.

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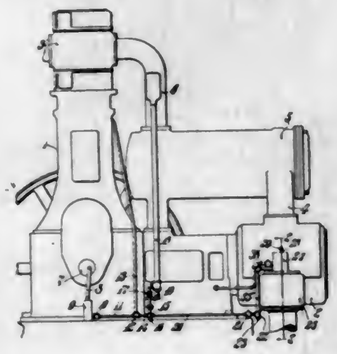
1,692,267. COMPRESSOR-CONTROLLING MECHANISM. FRED D. HOLDSWORTH, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Jan. 21, 1926. Serial No. 80,589. 4 Claims. (Cl. 230—3.)



1. The combination with a compressor and an internal combustion driving engine therefor, of controlling means for said compressor and for said engine comprising a cylinder adjustable in length, a piston therein, a plunger movable with said piston, a throttle for said engine having a controlling element engageable by said plunger, and means coaxially arranged with said piston and actuated thereby for controlling the condition of said compressor.

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1,692,268. COMPRESSOR. HALBERT B. HALVORSEN, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 26, 1926. Serial No. 104,745. 7 Claims. (Cl. 230—2.)

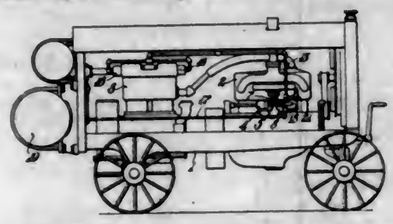


1. In a compressor system comprising a multi-stage compressor, unloading means for a low pressure stage, unloading means for a high pressure stage, a lubricating system, and means connected to the lubricating system for controlling said unloading means, said second mentioned unloading means including a plurality of relief means and a unitary actuator for said relief means.

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1,692,269. COMPRESSOR. CHARLES F. OSGOOD, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Apr. 9, 1927. Serial No. 182,449. 12 Claims. (Cl. 230—4.)

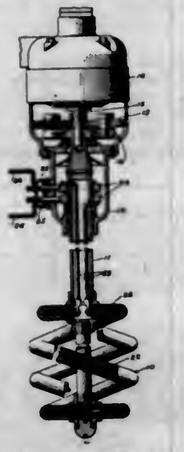
1. In a compressor controlling mechanism, a driving engine having a throttle, a governor for said throttle controlled by the speed of said engine, a fluid compressor driven by said engine, an unloading device for said compressor, a control for said unloading device operated by said engine throttle governor, and a second control



for said unloading device responsive to the compressor discharge pressure, said second mentioned control being independent of the engine throttle governor.

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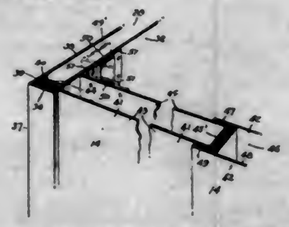
1,692,270. APPARATUS FOR TREATING LIQUIDS. AAGE JENSEN, Los Angeles, Calif. Filed Jan. 10, 1927. Serial No. 160,135. 5 Claims. (Cl. 219—41.)



4. An apparatus for treating liquids, comprising a tubular member formed into a series of convolutions, electric resistance elements arranged within the coils for imparting heat thereto, a shaft connected with the tubular member, means for rotating said shaft to impart movement to the tubular member, and means for raising and lowering said shaft whereby the coils may be immersed in a liquid container and withdrawn therefrom.

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1,692,271. DRIER CABINET. LOUIS JUDELSON, New York, N. Y. Original application filed May 28, 1924, Serial No. 716,340. Divided and this application filed Nov. 28, 1924, Serial No. 752,582. Renewed Aug. 30, 1927. 3 Claims. (Cl. 312—141.)



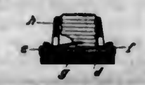
1. In a cabinet having interengaging hollow sheet metal sections, a section comprising an inner sheet each end of which is bent back on itself to form one side of a channel,



bent at an angle to form the bottom of said channel, and bent to form a flange parallel to the sheet, and an outer sheet each end of which is bent back on itself to embrace said flange and to form the other side of said channel.

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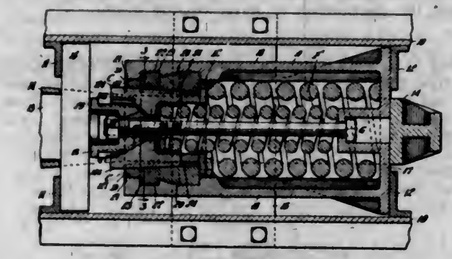
1,692,272. SUPPLEMENTAL RESISTANCE FOR SERIALLY-MOUNTED LAMPS. ALFRED LAMPL, Berlin-Halensee, Germany. Filed Nov. 9, 1925, Serial No. 68,042, and in Germany May 9, 1925. 2 Claims. (Cl. 200—118.)



1. In an electric system, electric contacting terminals and a shunt on said terminals, comprising a supply of loosely aggregated substantially granular iron chips.

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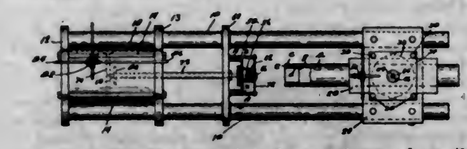
1,692,273. FRICTION SHOCK-ABSORBING MECHANISM. HARVEY J. LOUNSBURY, Glen Ellyn, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 18, 1926. Serial No. 155,573. 5 Claims. (Cl. 213—32.)



1. In a friction shock absorbing mechanism, the combination with a spring cage having a plurality of side walls, two of said side walls being opposed; of a spring resistance within the cage; a pair of detachable liners; means for preventing relative longitudinal movement of said liners and cage, said liners and side walls of the cage having interengaging faces thereon for holding the liners centered on the said walls; a pair of friction shoes cooperating with the liners; a wedge block engaging the shoes, said wedge block, shoes and liners being provided with interengaging means for holding all of said parts centered on said side walls and uniformly spaced from the remaining walls respectively.

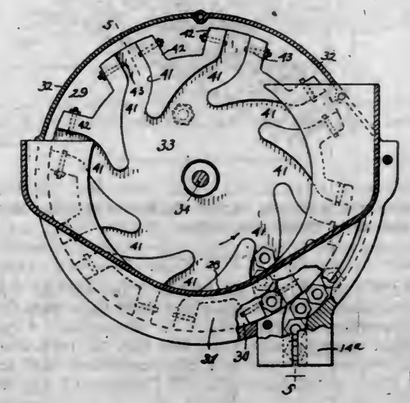
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1,692,274. DEVICE FOR REMOVING CAPS FROM PAPER CORES. MICHAEL J. MALLOY and EVERETT A. BUCK, Millinocket, Me., assignors to Great Northern Paper Company, Millinocket, Me., a Corporation of Maine. Filed Dec. 1, 1927. Serial No. 237,104. 22 Claims. (Cl. 29—88.2.)



1. A machine for removing the metal caps from the ends of tubular paper cores, including a core clamp having a movable clamping block, fluid-operated means to hold said block against the core and also to move it away from the core, a cap extractor, a carrier therefor, fluid operated means to move said carrier and the extractor toward and away from the cap on the end of the core in said clamp, and means operated by said fluid-operated means to force said extractor into pressure-applying relation with the cap.

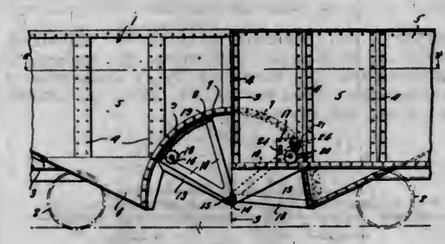
1,692,275. HOPPER FEED FOR METAL-WORKING MACHINES. BENJAMIN H. MORTUS, Cleveland, Ohio, assignor to The National Screw and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 1, 1924. Serial No. 747,304. 18 Claims. (Cl. 10—162.)



8. In a metal working machine having a tool adapted to operate on blanks, a feed hopper, a delivery member extending from said hopper, and a rotatably mounted feed disc for delivering blanks from the hopper to the delivery member, said disc having on the inner face thereof spaced slots, each extending inwardly from the periphery and of a length to receive a plurality of blanks and each being disposed angularly with respect to a radial line, each slot terminating short of the center of the disc and having unobstructed inner ends to permit blanks to pass freely into and out of the slots during rotation of the disc, each slot having means for permitting the passage of properly positioned blanks and preventing discharge of improperly positioned blanks from the peripheral end thereof.

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1,692,276. DUMP CAR. ROBERT W. MOTISHER, Sewell, N. J. Filed Aug. 6, 1927. Serial No. 211,186. 12 Claims. (Cl. 105—249.)



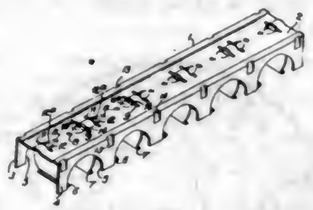
1. A hopper car comprising side members and an upwardly convex bottom portion, an arcuate door plate juxtaposed to the bottom portion.

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1,692,277. CARTRIDGE-FEEDING DEVICE FOR AUTOMATIC FIREARMS. CHRISTIAN PFEIFFER, Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 29, 1927. Serial No. 216,166. 11 Claims. (Cl. 89—33.)

1. A cartridge holder for automatic firearms comprising in combination a normally horizontal plate, means on the

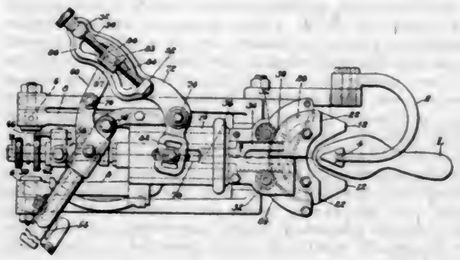
plate for holding a plurality of cartridges, and oppositely facing shoulders on the plate for engagement by the feed



mechanism of a firearm to feed the holder in either direction relatively thereto as desired.

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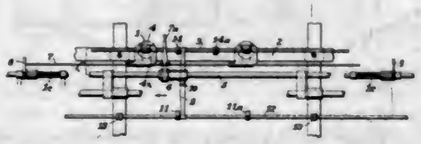
1,692,278. LASTING MACHINE. ARTHUR F. PYM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Mar. 10, 1924, Serial No. 698,099. Divided and this application filed Jan. 23, 1926. Serial No. 83,372. 23 Claims. (Cl. 12—14.)



1. In a lasting machine, the combination with shoe-positioning means, of end-embracing wipers, a hand lever, and separate connections between said lever and the wipers for advancing and closing the wipers respectively.

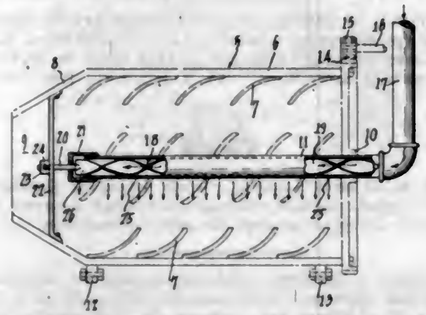
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1,692,279. FULL-FASHIONED-HOSIERY MACHINE. WOLFGANG D. RICHTER, Philadelphia, Pa., assignor to Wildman Mfg. Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Feb. 3, 1927. Serial No. 165,689. 5 Claims. (Cl. 66—130.)



1. In combination in full fashioning hosiery machines, a member for reciprocating the thread carrier, a reciprocating driving rod for said member with which said member has a friction connection to permit the member to be retarded and arrested before the stroke of the said rod is completed, and means retarding the speed of said member comprising a lever pivotally mounted on said member, a relatively stationary stop with which one end of said lever contacts, a reciprocating slur cock and a stop reciprocating with the slur cock and contacted by the other end of said lever, substantially as described.

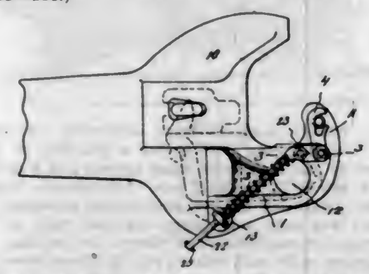
1,692,280. CONCRETE MIXER. GERALD ROUTLEDGE, Oakland, and AXEL O. NORLING, Alameda, Calif., assignors to Hutchinson Co., Oakland, Calif., a Corporation. Filed May 14, 1928. Serial No. 277,775. 5 Claims. (Cl. 83—73.)



1. A concrete mixer having a revoluble drum and a water supply pipe and a screw conveyer carried by said drum and extending into said pipe and adapted to facilitate the distribution of water to said drum.

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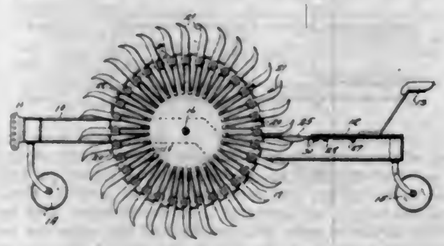
1,692,281. RAILROAD COUPLER ATTACHMENT. HARRY P. SPEER, Council Bluffs, Iowa, assignor of one-half to John M. Wheeler, Council Bluffs, Iowa. Filed Nov. 9, 1927. Serial No. 232,057. 2 Claims. (Cl. 213—116.)



1. An attachment for a coupler comprising a plate, means for attaching the plate to a coupler body, a rod for engagement with the knuckle of the coupler body to project laterally from one side thereof, an eye member on the plate, a rod slidable through the eye member, a crank pivotally engaged with the rod, a shaft journaled in the plate and rotatable by the crank, an arm extending from the shaft and having a notch to receive the rod in the knuckle.

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1,692,282. ROTARY PLOW. JAMES WILSON, Great Falls, Mont. Filed Sept. 3, 1927. Serial No. 217,403. 3 Claims. (Cl. 97—222.)



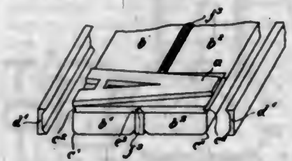
1. A mechanism of the character described including a frame, a rotatable structure mounted on the frame and having a plurality of circularly extending rows of teeth,



the teeth being angular in cross section, the vertices of the teeth being in advance, and cleaners mounted upon the frame and coacting with the teeth and resiliently urged in a direction toward the vertices of the teeth and shifted across the inclined face of the tooth by the wedging action of the tooth as a tooth passes a cleaner.

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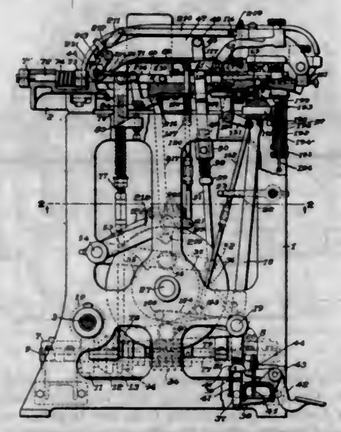
1,692,283. MEANS FOR PRODUCING PRINTING PLATES SPECIALLY FOR POSTER PRINTING. CARL ANDREAS ADAM, Hamburg, Germany. Filed Dec. 15, 1926, Serial No. 155,066, and in Germany Jan. 6, 1926. 2 Claims. (Cl. 101—384.)



1. In combination, a printing impression member formed on its rear surface with a narrow row of teeth extending transverse the member, and a block made up of a series of independent sections, each formed with a row of teeth corresponding to that on the impression member, the row of teeth on each of the several sections aligning when the sections are assembled in block form.

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1,692,284. MACHINE FOR USE IN THE MANUFACTURE OF SHOES. WILLIAM C. BAXTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 25, 1921. Serial No. 487,394. 150 Claims. (Cl. 12—97.)

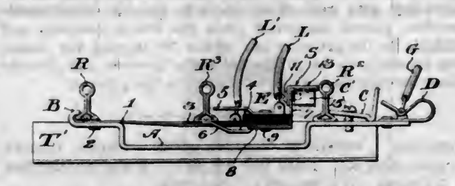


1. In a machine for shaping parts of shoes, the combination with means for applying pressure to a shoe part to give it substantially the shape which it is to have in the finished shoe, of positioning means comprising a member for engaging the shoe part in a jig hole formed in said part outside of the area where the shaping pressure is applied to position the part for the operation of the pressure applying means.

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1,692,285. AUTOMATIC SIGNALING MEANS FOR TOY TRACKS. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 3, 1927. Serial No. 237,434. 11 Claims. (Cl. 246—31.)

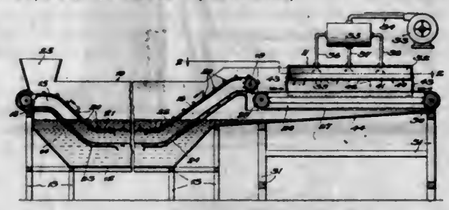
1. In a toy railway, a device adapted to be attached to a track section having a pair of wheel bearing rails and an insulated electrically charged rail, said device including a ground terminal electrically connected with a wheel



bearing rail, and a contact finger adapted to engage with said charged rail and insulated from said wheel bearing rails.

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1,692,286. PROCESS AND APPARATUS FOR FORMING A PROTECTIVE AND PRESERVING COATING UPON FRUIT AND THE LIKE. ERNEST M. BROGDEN, Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Apr. 27, 1923, Serial No. 635,206. Renewed May 18, 1926. 22 Claims. (Cl. 91—68.)

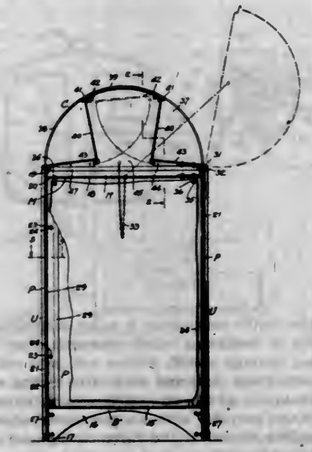


4. Apparatus for treating fruit and the like comprising in combination, means for applying a fluent coating material to the fruit, conveyor means adapted to receive fruit with fluent coating material applied thereto and to deliver said fruit to a point of discharge while freely gravity-supporting said fruit, and fluid-pressure means acting upon said fruit on said conveyor to uniformly distribute said fluent coating material thereover.

16. The process of treating fruit and the like which comprises applying coating material in a fluent condition to the fruit and then blowing air against the fruit to spread the applied material thereover.

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1,692,287. REFUSE RECEPTACLE. SAMUEL D. BUNDY, Pomona, Calif. Filed Apr. 29, 1925. Serial No. 26,773. 6 Claims. (Cl. 220—32.)

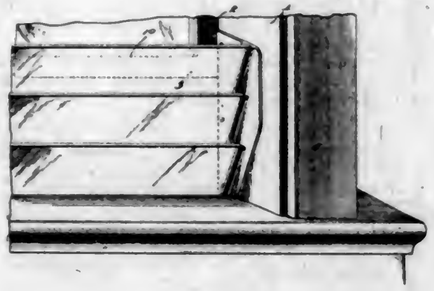


1. A receptacle of the character described comprising a base, upstanding posts secured to the base and having

offset longitudinal edges, a frame member secured to the upper ends of the posts, clamping members having lips co-operating with said off-set edges to provide constrictable grooves, panels suspended from the frame members and slidable in the grooves, and means for moving the clamping members so as to constrict the grooves and thereby clamp the panels against movement in the grooves.

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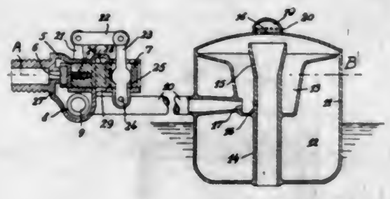
1,692,288. WINDOW VENTILATOR. FRANK CLARKE, Louisville, Ky. Filed Dec. 10, 1927. Serial No. 239,085. 7 Claims. (Cl. 98—99.)



1. A panel holder for window ventilators comprising a bracket adapted to be secured to a suitable support, a layer of elastically yieldable material secured to the inner face of said bracket, and a panel receiving groove formed in said material.

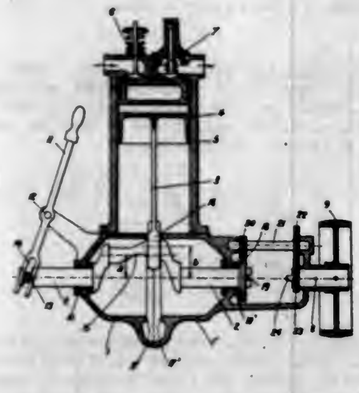
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1,692,289. FLOAT VALVE. NIELS PETER DAMGAARD, Copenhagen, Denmark. Filed Dec. 28, 1925, Serial No. 78,024, and in Germany Apr. 4, 1925. 12 Claims. (Cl. 137—104.)



10. A float valve comprising a valve casing and a float loaded with a weighting tank communicating with the valve casing through a stiff, hollow rod, said rod entering both said weighting tank and said valve casing with tight joints, the said rod, at its end entering the valve casing bent to an angle and provided with a screw thread screwing into a corresponding thread in the valve casing and swivelling therein, the said weighting tank provided with several discharge openings in its wall arranged at different levels.

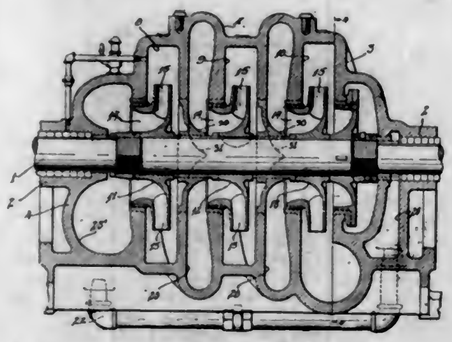
1,692,290. PUMP AND LIKE ENGINE. MANUEL GÓMEZ DE RUEDA, Paris, France. Filed July 13, 1927. Serial No. 205,304. 6 Claims. (Cl. 103—12.)



1. In a crank driven engine the combination of a crank with means for simultaneously varying both the speed and the effective radius of said crank.

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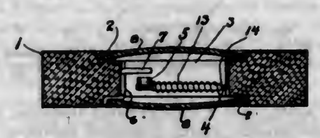
1,692,291. MULTISTAGE PUMP. WILLIAM CHARLES DOWD, Quincy, Ill. Filed Aug. 15, 1924. Serial No. 732,282. 1 Claim. (Cl. 103—108.)



A centrifugal pump comprising a casing, a plurality of impellers, means for actuating said impellers, said casing having a double volute leading from one impeller to the eye of the next impeller, said double volute consisting of two passageways, one passageway starting at a point diametrically opposite to the other making a complete circle and terminating adjacent the eye of the next impeller, the terminating point being disposed diametrically opposite the terminating point of the other passageway, said passageways increasing in area as they approach the eye of the next impeller, whereby a decreasing of velocity and increasing of pressure of the water is effected, means for preventing whirling of the water as the two streams of water from the two volutes merge into one stream, said means comprising a bushing disposed adjacent each of said impellers, and deflecting vanes integral with said bushings and having concave surfaces merging into each other at their adjacent extremities for directing the flow of the two volumes of water in one direction, whereby the two volumes of water will merge into one volume and be conducted into the eye of the adjacent impeller.



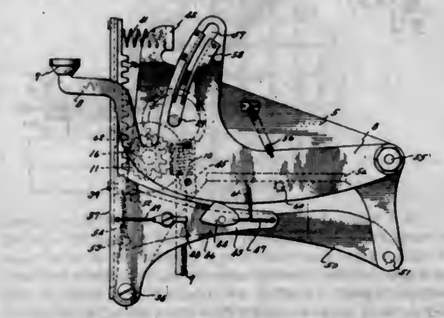
1,692,292. ELECTRIC FLASHER DEVICE. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Radio Patents Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1926. Serial No. 144,011. 5 Claims. (Cl. 200—122.)



1. In a disk-shaped flasher for an electrical circuit a thermally responsive element, a co-operating member, a heater member, an insulating support for said element and said co-operating member, the support having slots therein to be engaged by said thermally responsive element and the co-operating member.

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1,692,293. ZERO-RESETTING DEVICE. LYNDEN N. DAVY, Cheyenne, Wyo. Filed June 1, 1925. Serial No. 33,946. 17 Claims. (Cl. 235—144.)



1. In trip indicators for vehicles having a plurality of numeral wheels arranged to be turned from a moving part of the vehicle, and means for resetting all the numeral wheels to zero position including means for detaching the numeral wheels from the moving part of the vehicle, means including normally disengaged racks for simultaneously rotating the numeral wheels in the reverse direction, and means for successively stopping the numeral wheels when they have reached zero position.

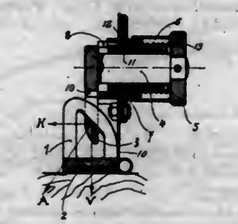
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1,692,294. RACK FOR DRYING OVENS. JOHN D. ELDER, Rockville Center, N. Y., assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1926. Serial No. 104,954. 6 Claims. (Cl. 198—134.)



1. A rack for drying ovens embodying therein parallel sprocket chains having laterally extending pivot pins, blocks having openings therethrough adapted to receive said pivot pins whereby said blocks may be pivotally mounted upon said pins, means holding said blocks against displacement with relation to said pins, said blocks having openings therein intermediate the portions thereof engaging said pivot pins, a carrier having legs entering said openings, and means passing through the walls of said blocks respectively and said legs for securing said legs in relation to said blocks.

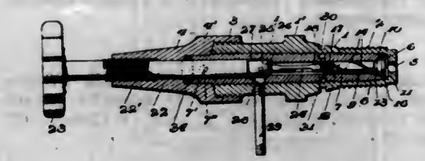
1,692,295. AUTOMATIC FASTENING DEVICE. AUGUSTE LÉON JEAN GÉRARD, Paris, France. Filed Nov. 30, 1926. Serial No. 151,788. 4 Claims. (Cl. 292—242.)



1. A device of the character described comprising in combination with the hood and frame of an automobile, a sleeve fixed to portions of said hood, a handle rotatably mounted within and extending through said sleeve, a curved hook secured to one end of the handle and having a wedging engaging surface, a keeper fixed to the frame and having an inclined surface cooperating with the wedging surface of the hook, and a coil spring engaging the fixed sleeve and the rotatable handle to continuously urge the hook into further wedging engagement with the keeper preventing the hood to move relatively to the frame.

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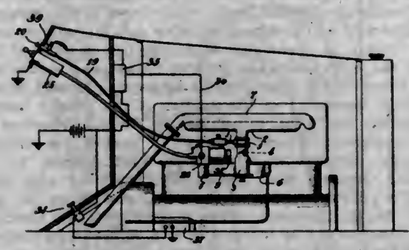
1,692,296. SAFETY VALVE. FRENCH E. GODSEY, Bluefield, W. Va. Filed Sept. 28, 1927. Serial No. 222,667. 7 Claims. (Cl. 277—27.)



1. In a valve of the character described, the combination of the casing open at its inner end, a tubular bushing secured in the casing, a valve and valve-seat located in the inner end of the bushing, a bonnet secured to the outer end of the casing, a valve-operating stem screw-threaded into the bonnet and passing into the bushing and into operative relation with the valve in the inner end of the bushing, and a valve on said valve stem and seating on a valve-seat within said bushing.

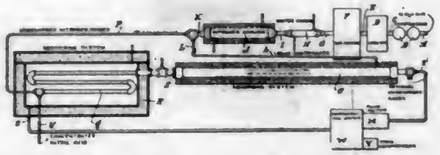
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1,692,297. ENGINE-HEATING APPARATUS. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed May 21, 1923, Serial No. 640,018. Renewed Nov. 21, 1927. 28 Claims. (Cl. 123—122.)



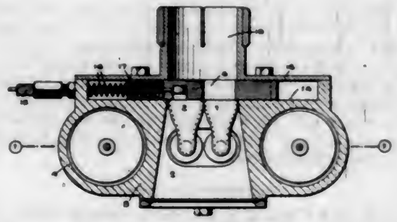
1. The combination, in an internal combustion engine, of a carburetor, an auxiliary, carburetor and a liquid fuel combustion device associated with the latter, comprising a pressure means for spraying the fuel therein and an igniter, and adapted to cause said auxiliary carburetor to deliver a hot mixture of fuel and air.

1,692,298. PRODUCTION OF NITRIC ACID FROM AMMONIA. LUCIEN H. GREATHOUSE, Clarendon, Va., assignor to Atmospheric Nitrogen Corporation, Syrscuse, N. Y., a Corporation of New York. Filed Sept. 6, 1923. Serial No. 661,151. 10 Claims. (Cl. 23—160.)



1. The process which consists in compressing a gaseous mixture containing ammonia and oxygen and subjecting the compressed gaseous mixture to catalytic oxidation cooling the resulting product so as to cause a portion thereof to become condensed to liquid form, causing such liquid condensate and the uncondensed gases to travel in contact with each other in the same direction while further cooling them, then separating the liquid condensate from the uncondensed gases, then bringing such liquid condensate and uncondensed gases into renewed contact with each other and causing them to travel in contact with each other in opposite directions while further cooling them, and finally discharging separately, the liquid nitric acid thus obtained and the remaining uncondensed gases, the entire process being conducted at a pressure above atmospheric pressure.

1,692,299. CARBURETOR. HOWARD JOSEPH HARDING, Paris, France. Filed Jan. 6, 1927, Serial No. 159,406, and in Great Britain Jan. 7, 1926. 3 Claims. (Cl. 261—18.)



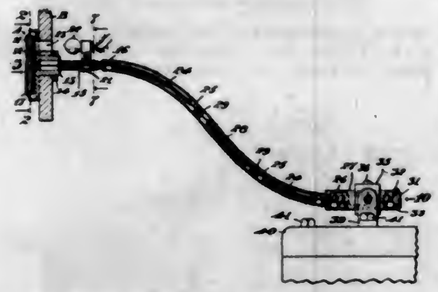
1. In a carburetor, the combination of a mixing chamber having an outlet adapted for connection with the intake of an engine a plurality of independent feed systems for supplying different fuels, an air inlet, a slide disposed transversely of the mixing chamber and the said air inlet and having an opening allowing the free passage of fuel from the feed systems and air from the air inlet to said mixing chamber, the proportion of air passing to said mixing chamber depending on the position of the slide, a control operating the slide to enable the mixing chamber to be throttled, and a plurality of nozzles for delivering the different fuels from the feed systems to the mixing chamber, said nozzles being disposed with their outlets adjacent a face of the slide, whereby as the passage through the mixing chamber is progressively throttled the outlet of one of the nozzles is progressively restricted in order to decrease the proportion of fuel supplied to an engine from the said nozzle, and, as the opening in the slide is moved to register with the mixing chamber, a projection on the slide extending into the said opening serves to restrict the outlet of a second nozzle progressively, whereby the proportion of fuel supplied to the engine from the said second nozzle is decreased.

1,692,300. VANITY CASE. HARRY HEITEL and JOSEPH HEITEL, New York, N. Y., assignors of one-half to Harry Jacobson, New York, N. Y. Filed Oct. 16, 1922. Serial No. 594,721. 17 Claims. (Cl. 132—83.)



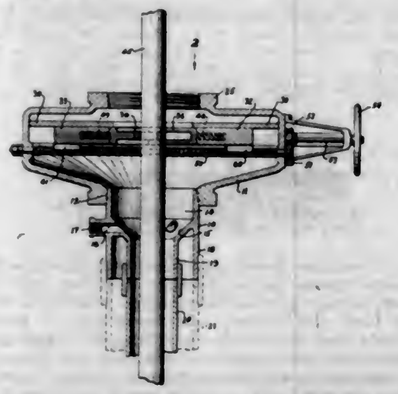
1. In a vanity case, a member fitted thereinto, a mirror, and a hinge directly joining peripheral points on the mirror and said member together.

1,692,301. THERMAL INDICATOR. WILLIAM R. HESLEWOOD, Los Angeles, Calif., assignor of one-half to Fred A. Datta, Los Angeles, Calif. Filed June 8, 1927. Serial No. 197,413. 5 Claims. (Cl. 116—114.)



1. In a thermal indicator, a thermostatic element, means for supporting said element on a heat conductive surface, a flexible shaft connected to said thermostat element; said thermostat element being operable on expansion and contraction thereof to effect rotation of said shaft, a dial fixed on said shaft having differently colored fields, a casing having a sight opening exposing a portion of said dial, means connected to said thermostat element whereby said element may be manually turned to effect adjustment of said dial relatively to the sight opening, and means for holding said last named means against rotation.

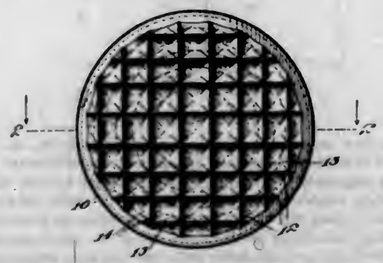
1,692,302. WELL-CAPPING DEVICE AND CONTROLLING HEAD. ALBERT ORVALL HESSEMER, Fullerton, Calif. Filed May 2, 1925. Serial No. 27,612. 2 Claims. (Cl. 166—15.)



1. The combination with a casing head including a lower body part and an upper head portion, of a series of distributing outlets in said body portion, said head portion including two parts detachably secured together, one of said parts having an apertured plate therein, ribs in said head spaced from said plate, a pair of valve members movable on said ribs, one of said valve members having a spring pressed block movable therein, the other valve member also having a spring pressed block movable therein, one of said movable members comprising two spaced portions and the other member having a portion thereon adapted to fit between said spaced portions, said movable blocks having drill stem engaging slots therein, a threaded shaft extending through said head, one portion of said threaded shaft having right-hand threads and the other part of said shaft having left-hand threads, said valve members having threaded portions thereon engaging said threads and means for rotating said threaded shaft to simultaneously move the two valve members.

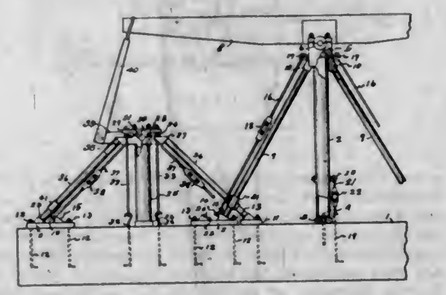


1,692,303. LENS. PAUL P. HORNI, Newark, N. J. Filed Mar. 21, 1927. Serial No. 177,126. 1 Claim. (Cl. 240—106.)



A concavo-convex lens, the concave side having a central bull's-eye, and concentric prismatic ribs cooperating with the bull's-eye to concentrate a beam of light passing through the lens, and the convex side having its whole face covered with lenticular subdivisions whereby the beam formed by the concave side is subdivided into a number of small intersecting beams dispersed both vertically and horizontally.

1,692,304. PUMPING MECHANISM. CLAUDE W. HUGHES, Odessa, Tex. Original application filed July 3, 1926, Serial No. 120,352. Divided and this application filed May 7, 1927. Serial No. 189,497. 5 Claims. (Cl. 74—5.)



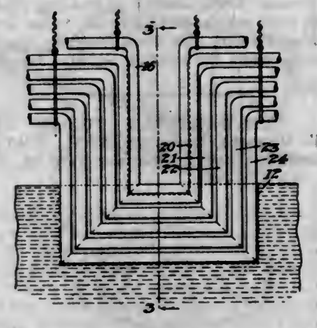
1. A device of the character described including a post, a bearing member thereon formed with a bearing, a bracket fixed in position and spaced from the post and formed with an inclined bearing face, a brace rod interposed between said bearing member and bearing face.

1,692,305. INFLATABLE GAME BALL. GEORGE R JACOBUS, Hawthorne, N. J. Filed Feb. 14, 1927. Serial No. 167,960. 1 Claim. (Cl. 273—65.)



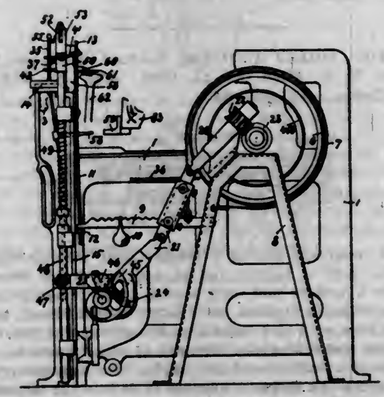
An inflatable game ball comprising a casing having a slit, a bladder entrable through the slit into the casing to be inflated therewithin, tabs fixed on the inner surface of said casing at opposite sides of the slit, interlocking fastener devices on the adjacent edges of said tabs, a flexible flap disposable under said tabs and fasteners, a slider movable over said fastener devices, and a pocket in said casing to receive and conceal said slider.

1,692,306. APPARATUS FOR CONTROLLING MOLTEN-GLASS FLOW. CHARLES B. KINGSLEY, Clairton, Pa. Filed Apr. 8, 1926. Serial No. 100,507. 5 Claims. (Cl. 49—55.)



5. In combination with a flow spout of a glass tank, a gate comprising nested conduit members adapted to extend across the pouring passage and to be submerged in the molten metal.

1,692,307. POWER LOOM. REINHARD KNOBEL and EUGEN KNOBEL, St. Gall, Switzerland, assignors to Charles Walter, Cernay, Haut Rhin, France. Filed Mar. 14, 1924, Serial No. 699,180, and in Switzerland Mar. 20, 1923. 9 Claims. (Cl. 139—227.)



1. In a power loom, a drive shaft, fast and loose pulleys driven by said shaft, loom mechanism actuated by the fast

pulley, a brake device for stopping the loom mechanism, a cam shaft, gearing adapted to be actuated by the loose pulley for actuating said cam shaft, a clutch device for throwing said gearing into and out of action, a shifter including a starting and stopping lever for shifting the power from the fast pulley to the loose pulley and vice versa, a control device governing the starting and stopping lever for throwing said lever into action to shift the power from the fast pulley to the loose pulley, a normally inactive control lever controlling said brake device, a normally inactive control lever controlling said clutch device, coacting contact members on said starting and stopping and control levers for shifting said control levers into action when the starting and stopping lever acts on its fast to loose power shifting movement and for returning said controlling levers to normal inactive position upon the return of the starting and stopping lever to normal position, and means operative by the cam shaft for returning said starting and stopping lever to normal position.

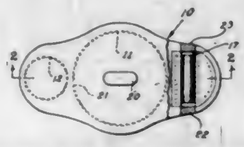
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1,692,308. PROCESS FOR THE PURIFICATION OF NITRANILINE. HAMILTON MERRILL, South Orange, N. J., assignor to Tower Manufacturing Co., Inc., a Corporation of New York. Filed July 1, 1925. Serial No. 40,978. 4 Claims. (Cl. 260—130.5.)

1. The process which consists in treating para-nitraniline formed from para-nitrochlor-benzol, in an aqueous solution of a solid alkali, then filtering off the solution from the nitraniline while the solution contains said alkali.

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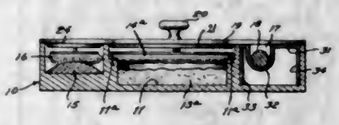
1,692,309. DRESSING-TABLE TOILET ARTICLE. LAURA L. MILLRING, New York, N. Y. Filed Apr. 10, 1925, Serial No. 22,071. Renewed July 19, 1927. 10 Claims. (Cl. 132—83.)



1. A receptacle having a compartment for receiving a cosmetic such as powder and an applying device therefor such as a powder puff, and having another compartment for receiving a lipstick, said latter compartment being in the form of a slot extending transversely of the receptacle and open-ended laterally of said receptacle, and a cover for said receptacle having a depending member adapted to fit about said receptacle and over the respective ends of said slot for closing said last-mentioned compartment.

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1,692,310. TOILET ARTICLE. LAURA L. MILLRING, New York, N. Y. Filed Dec. 11, 1926. Serial No. 154,159. 10 Claims. (Cl. 132—83.)



1. A receptacle having a compartment for receiving a cosmetic such as powder and an applying device therefor such as a powder puff, and having another compartment for receiving a lipstick, said latter compartment being in the form of a slot extending transversely of the compartment and open-ended laterally of said receptacle, and a cover for said receptacle having two oppositely disposed depending members adapted to fit into the respective ends of said slot for closing said last-mentioned compartment.

1,692,311. DISPLAY STAND. ROBERT J. RADER, New Rochelle, N. Y., assignor to J. C. Penney Company, New York, N. Y., a Corporation of Delaware. Filed May 3, 1927. Serial No. 188,422. 1 Claim. (Cl. 211—163.)



A display stand comprising a vertical support, an extension rotatably mounted thereupon, downwardly extending angularly and radially disposed bars having their inner ends connected to said extension, a series of rings positioned upon the bars and arranged exteriorly thereto, said rings increasing in diameter from the uppermost to the lowermost proportionate with the angular disposition of the bars, a second series of rings arranged inwardly of and secured to the bars, the rings of said second series being spaced with respect to the rings of the first series to form pairs of rings by means of which articles may be suspended for display, the space between the rings of each pair being governed by the dimension of the bars, and the angular disposition of the bars being of such degree as to eliminate the overlapping of the space between the rings of one pair with the space between the rings of any other pair.

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1,692,312. TROUSERS. JACOB REICHEL, New York, N. Y. Filed Mar. 31, 1925. Serial No. 19,591. 4 Claims. (Cl. 2—237.)

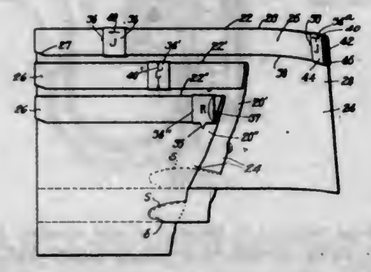


2. A garment of the character described having a waistband comprising an outer member and an inner lining, a plurality of belts secured to extend between said member and lining, the end portion of each belt being relatively narrow in width, said member being perforated at spaced distances along the waist band to permit the narrow free end portions of the belts to extend to the exterior side of the garment and being also provided with openings on each side of the perforated portions for inserting the narrow free end of the belt, and a buckle for engaging with said narrow ends of the belt for adjusting the waist band for various sizes.



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1,692,313. SLIDING SIGNAL. JOHN CHADBOURN ROBISON, New York, N. Y. Filed Dec. 4, 1923. Serial No. 678,405. 20 Claims. (Cl. 129—16.7.)

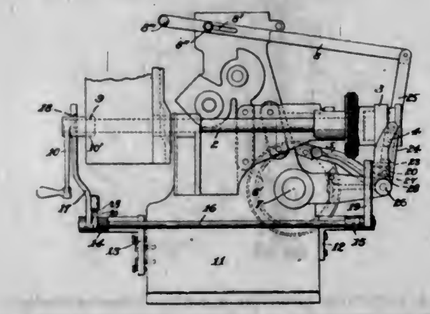


1. An indicating device of the character described comprising a card having an upper marginal flap and a sliding signal interlocked with said flap so as to hold said signal against movement transverse to its path of travel.

18. An index card having a series of sections adapted to be folded over at successive time intervals to form different guide-ways for a sliding signal.

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1,692,314. SAFETY DEVICE FOR AUTOMATIC SCREW MACHINES. OLIVER A. RUSSELL, Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 30, 1926. Serial No. 125,862. 21 Claims. (Cl. 29—64.)

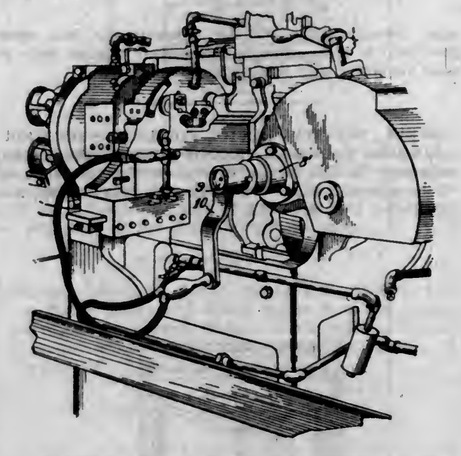


1. In a machine having a manually operative and power driven shaft and clutch, mechanism for transmitting power to the shaft, positively acting means shiftable into position to cooperate with said shaft for preventing the attachment of manually operating means to the shaft when the clutch is engaged and having connection with the clutch mechanism for preventing the operation thereof when the manual means is attached, and independent means for operating said clutch mechanism.

10. In a machine having a manually operative and power driven shaft, a clutch for transmitting power to the shaft and clutch shifting means, means for preventing the engagement of the clutch when manually operating means is attached to the shaft and comprising means shiftable to cooperate with the power shaft and having connection with the clutch mechanism, independent means for operating said clutch shifting means, and means for locking the clutch in its inoperative position.

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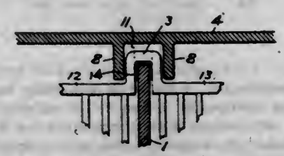
1,692,315. CRANK-HANDLE SAFETY DEVICE FOR MULTIPLE-SPINDLE SCREW MACHINES. CHARLES W. SIMPSON, Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 26, 1927. Serial No. 222,160. 17 Claims. (Cl. 29—64.)



1. In a machine having an automatically operated clutch comprising a fixed and a shiftable member and means for operating it, the combination of a feed shaft, a sliding crank handle shaft, said shafts having an interlocking connection, a sliding push rod connected with the shiftable member of the clutch and in position to engage the crank shaft thereby to slide the crank shaft out of engagement with the feed shaft when the clutch is thrown into operation.

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1,692,316. STORAGE BATTERY. EDWARD W. SMITH, Philadelphia, Pa. Filed Dec. 31, 1927. Serial No. 243,887. 2 Claims. (Cl. 136—170.)



1. A storage battery container having vertical intercell partition walls and intercell connectors provided with yokes mounted at the top portions of said walls, and an externally flanged concave cover common to several cells and adapted to fit into said container, the concave face of said cover being provided with spaced ribs adapted to receive between them the yoke of a connector and the top part of said cell wall, and said ribs on opposite sides of the yoke provided with confronting ledges.

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1,692,317. ACOUSTIC WAVE FILTER. GEORGE WALTER STEWART, Iowa City, Iowa, assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 25, 1922, Serial No. 577,409. Renewed Sept. 18, 1928. 26 Claims. (Cl. 181—0.5.)

17. An acoustic wave filter, comprising two co-axially disposed tubular bodies, a plurality of axially spaced par-

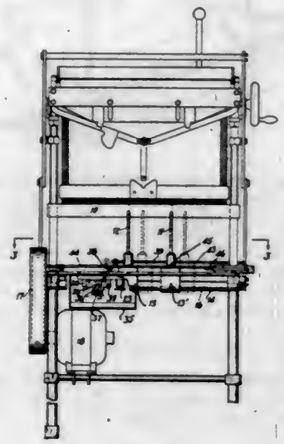
tition walls dividing the interspace into separate compartments, openings between the inner tubular body and the separate compartments and tubes extending through the



outer tubular body into the compartments into close proximity to the openings in the inner tubular body in axial alignment with said openings.

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1,692,318. SHIFTING DEVICE FOR DRILLS ON BOOK-BINDING MACHINES. NELSON S. WELK, Athens, Ohio, assignor to The McBee Binder Co., Athens, Ohio, a Corporation of Ohio. Filed May 25, 1927. Serial No. 193,958. 4 Claims. (Cl. 77—6.)

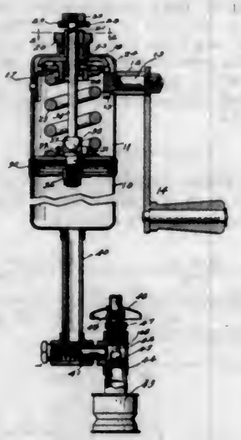


1. The combination, with a book-binding machine, of a plurality of electrically driven drills suitably connected to a source of electric power, carriages on which said drills are mounted, a guide upon which said carriages are laterally slidable, an electrical switch in the line, means connected to said switch and said carriages whereby the lateral movement of the carriages in one direction operates to close said electrical switch and in the other direction to open it and move the said drills out of the path of the drilled holes.

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1,692,319. GREASE GUN. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, a Corporation of Delaware. Filed May 25, 1921. Serial No. 472,482. 3 Claims. (Cl. 221—47.4.)

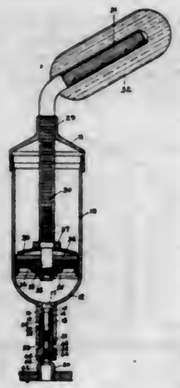
3. A lubricant coupling comprising a valve chamber having a valve seat defining an outlet for said chamber, means for making a quick detachable connection with a lubricant receiving element, said means communicating with said chamber through said outlet, a valve for closing said outlet, a valve stem extending outside said valve chamber and in axial alignment with said connecting means, said valve



stem being threaded in the wall of said chamber, and a torsion spring tending to rotate said stem and close said valve.

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1,692,320. LUBRICATING APPARATUS. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, a Corporation of Delaware. Filed Nov. 21, 1922. Serial No. 602,465. 6 Claims. (Cl. 221—47.4.)



1. A lubricating pistol for a contact pressure-lubricating system comprising a lubricant receptacle having an exit, a valve within said exit, a piston reciprocable within said receptacle, manually operable means for moving said piston to create pressure upon the lubricant within said receptacle, means for independently further moving said piston in the same direction to eject lubricant therefrom when said valve is open, and means for opening said valve by pressing said exit against the part to be lubricated.

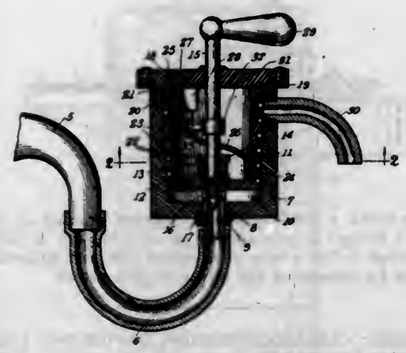
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1,692,321. INSTANTANEOUS ELECTRIC WATER HEATER. GEORGE J. ZISCH, Newark, N. J. Filed Jan. 27, 1927. Serial No. 163,874. 3 Claims. (Cl. 219—39.)

1. An electric water heater comprising a cylindrical body having means to connect with a water supply source,



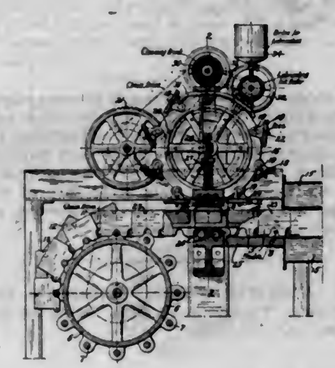
said body having a conical chamber and an opening leading thereto, a cover on the open end of said body, a hollow tapered plug having a raised helix on its periphery fitting the chamber, a high resistance wire coil disposed in the grooves of said helix, a snap switch controlling current



to said coil, a valve controlling the passage of water through the helical grooves, said valve having a stem extending through said cover, a handle thereon, an outlet on said body in communication with the groove most remote from the water inlet and means actuated by said valve handle to operate said switch.

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1,692,322. SOAP-MARKING MACHINE. CHARLES W. AIKEN, New York, N. Y. Filed Apr. 14, 1921. Serial No. 461,398. 8 Claims. (Cl. 25—7.)

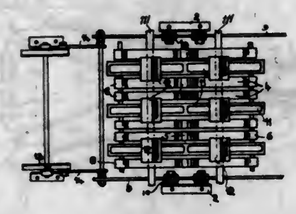


1. In a soap marking machine, an endless chain of mold boxes for carrying cakes to be marked, a plurality of marking dies rotatably mounted to move adjacent said boxes and mark the cakes therein, means for causing the lineal speed of said boxes and marking dies to be substantially equal, means for cleaning each die, and means for lubricating each die after the latter has been cleaned.

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1,692,323. FIRE GRATE. ABEILARD SANTA ROSA ARAUJO, Rio de Janeiro, Brazil. Filed Nov. 2, 1926, Serial No. 145,740, and in Brazil Nov. 25, 1925. 3 Claims. (Cl. 126—157.)

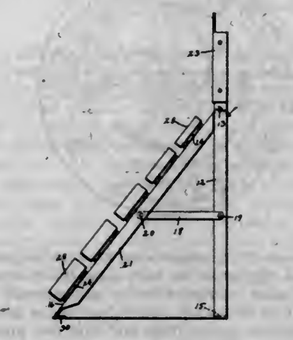
3. A grate structure of the character described comprising a set of stationary bars comprising single side bars and a plurality of pairs of bars arranged therebetween and spaced therefrom and from each other, each of said bars having upon its top a central hump and an end half hump, a set of shiftable bars comprising a single bar arranged between each of said pairs of stationary bars



and between each side bar and the adjacent pair of stationary bars, the bars of one set having laterally extending scraping projections partially overhanging the upper surfaces of the adjacent bars of the other set, and means for reciprocating the shiftable bars in unison.

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1,692,324. DISPLAY RACK. WILLIAM H. AVERILL, Boston, Mass., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 26, 1927. Serial No. 228,788. 4 Claims. (Cl. 211—160.)



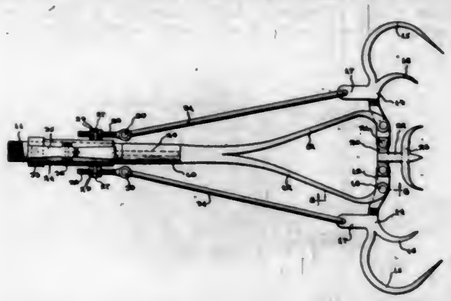
1. A display-rack structure comprising a substantially U-shaped bow composed of spaced apart parallel arms and a neck connecting the arms; a transverse coupling rod connecting the arms and spaced from the neck; a display board having merchandise-confining means, flanges adapted to overlap the outer sides of said arms, and a coupling hook adapted to separately engage the coupling rod; and parallel links pivoted to said arms and flanges, and adapted to extend either parallel with the arms, or at an angle therewith, the arrangement being such that the structure may be converted into an easel-shaped rack, adapted to bear on a horizontal support, by engaging the coupling hook with the coupling rod, and arranging the links substantially at right angles with the arms, and into a flat rack adapted to be hung on a vertical support, by disconnecting the hook from the rod, and arranging the links parallel with said arms, and extending toward the neck.

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1,692,325. GAFF HOOK. GORDON L. BELLILE and FRED REISSMANN, Rhinelander, Wis. Filed Nov. 7, 1927. Serial No. 231,558. 5 Claims. (Cl. 43—5.)

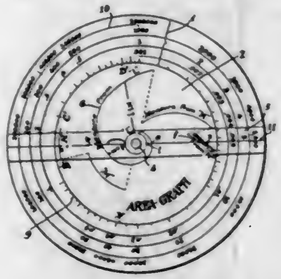
1. A gaff hook comprising a staff having terminal divergent spring arms, hook members having pivotal mountings

in the terminals of said arms and tail extensions beyond said pivotal mountings, a trip spur having terminal pivotal connections with said tail extensions, a sleeve slidably mounted on the staff, and link connections between said sleeve and said hook members.



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1,692,326. DRAWING DEVICE. SAMUEL WHITTEMORE BOGGS, Chevy Chase, Md. Filed Oct. 11, 1926. Serial No. 140,941. 19 Claims. (Cl. 33—75.)



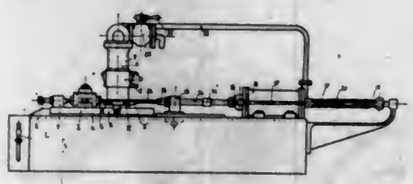
1. A drawing device comprising in combination a member having an edge provided with logarithmic graduations, a second member carried thereby and movable relative thereto and provided with a base line and a plurality of logarithmic curves spaced from said base line proportional to measurements of lines, areas, volumes, and angles, respectively, and cooperating with said graduations on said first member, and an indicator member which is movable over both said two first-mentioned members by means of which to take off at any relative setting of said two first-mentioned members a series of coordinates of the curves on said second member corresponding to the numerical values of said graduations on said first member.

17. An article of manufacture comprising an element having a polar curve formed thereon within a circle of limited radius, the curve being developed initially outwardly from a circular base-line of small radius to a point near the periphery of said circle, and being continued from a point on the same radial line with the last mentioned point in such manner that the distances measured radially from said small circular base-line to points on said curve are less than the corresponding radial co-ordinates of the respective points by a constant value.

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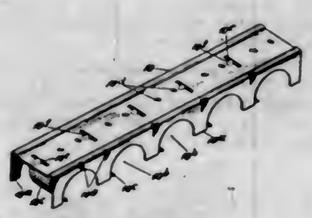
1,692,327. ELECTRIC UPSETTING OR JOLTING MACHINE. FRANCESCO BARRO, Turin, Italy. Filed Oct. 25, 1926, Serial No. 144,090, and in Italy Nov. 6, 1925. 1 Claim. (Cl. 219—3.)

An upsetting or jolting machine comprising a bed, two insulated plates mounted on said bed and connected to the terminals of a source of electricity, a ram mounted on one of said plates and the piston whereof actuates a half-bush cooperating with another half-bush for gripping the work piece, an adjustable anvil arranged on the other plate, a guide and stop support situated on the bed, a plunger axially slidable in said support, a piston connected to the piston of a second ram and adjustable means for regulating the stroke of said piston.



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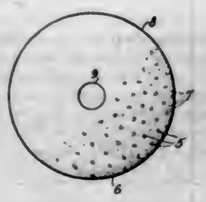
1,692,328. CARTRIDGE-FEEDING DEVICE FOR AUTOMATIC FIREARMS. JOHN M. BROWNING, Ogden, Utah; John Browning administrator of said John M. Browning, deceased. Filed Jan. 2, 1925, Serial No. 141. Renewed Aug. 18, 1928. 24 Claims. (Cl. 89—33.)



2. A cartridge holder for automatic firearms comprising a normally horizontal top plate, and cartridge engaging means depending from the top plate and including a flange extending longitudinally of the holder and having seats for receiving a plurality of cartridges, the portions of the flange at the edges of the seats being adapted to enter annular grooves in the cartridges to prevent relative endwise movements of the cartridges.

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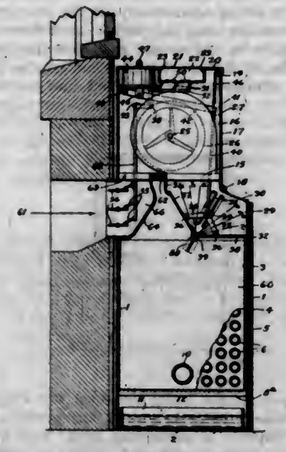
1,692,329. ABRASIVE WHEEL. GILDEROY O. BURLEW, Newark, N. J. Filed Sept. 10, 1927. Serial No. 218,695. 3 Claims. (Cl. 51—279.)



2. A grinding wheel comprising an abrasive substance in powdered form, chopped sponge incorporated therewith, and a binder of rubber vulcanized with the abrasive and sponge.



1,692,330. HEATING AND VENTILATING UNIT. MICHAEL J. CALLAHAN, New York, N. Y. Filed Jan. 19, 1924. Serial No. 687,199. 16 Claims. (Cl. 257—3.)



13. A heating and ventilating unit comprising a casing divided into a plurality of chambers, one of the chambers being at the top of the casing and adapted to contain blowers and a motor for operating the latter; another of the chambers being at the bottom of the casing and adapted to contain a heating element; another and smaller chamber being located between the heating and blower chambers and having a damper operating therein adapted to shut off the heating chamber from the blower chamber; and still another chamber located between the heating and blower chambers and in rear of the smaller chamber and communicating with the blower chamber to admit fresh air thereto.

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1,692,331. VARIABLE INDUCTANCE. NEWSOME HENRY CLOUGH, Chelmsford, England, assignor to Radio Corporation of America, a Corporation of Delaware. Filed Jan. 3, 1925, Serial No. 401, and in Great Britain Jan. 14, 1924. 7 Claims. (Cl. 171—242.)

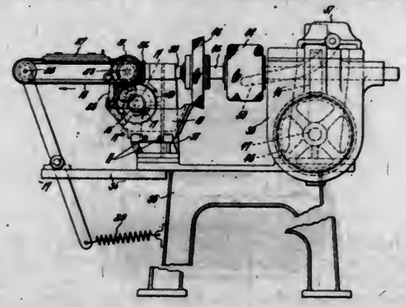


1. A variable inductance comprising a plurality of coils wound upon a spherical former and a spherical cap mounted to turn about a diameter of the former to cover varying portions of any of the coils.

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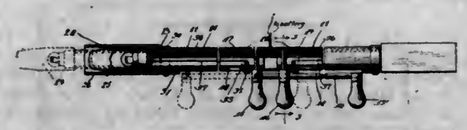
1,692,332. SOLE-WAXING MACHINE. WILLIAM A. COPELAND, Boston, Mass., assignor to International Shoe Company, St. Louis, Mo., a Corporation of Delaware. Filed Dec. 9, 1925. Serial No. 74,378. 7 Claims. (Cl. 12—79.5.)

1. In a device of the class described, a liquid container, means for heating the container, means for feeding liquid from the container, means for transferring the liquid from the feeding means and applying it to work held thereagainst, said transferring and applying means comprising a plurality of chains positioned side by side for contact with said feeding means; means adjacent a portion of said chains for heating said chains, and means for maintaining a yielding tension on said chains.



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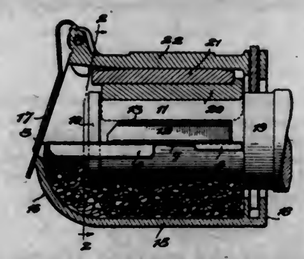
1,692,333. SIGNALING DEVICE. BENJAMIN A. CRENSHAW, Chicago, Ill. Filed May 16, 1927. Serial No. 191,631. 10 Claims. (Cl. 177—329.))



8. In a direction signal for motor vehicles, a body member arranged to be attached transversely to a motor vehicle adjacent to the instrument board, laterally extensible signal arms slidably mounted on said body member a signal at the outer end of each of said arms, and means interconnecting the arms, so that on the projection of one the other will be automatically retracted, each said signal comprising a member formed to represent a hand with the index finger extended, the central portion of said member being cut away to provide a similar hand shaped open space, an incandescent light bulb within said space, lenses of colored translucent material overlying said space on opposite sides of said bulb, an electric circuit for said light bulb and means for closing said circuit incident to extending its signal arm.

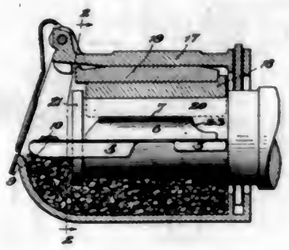
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1,692,334. JOURNAL-BOX-WASTE RETAINER. REAMEY H. DYER, Roanoke, Va. Filed July 28, 1926. Serial No. 125,363. 4 Claims. (Cl. 308—80.)



2. A waste retainer for car axle journal boxes, comprising a front member, side members extending rearwardly therefrom, said members having downwardly projecting flanges at their outer edges, and cheeks extending upwardly from the inner edges of said side members and having horizontal bearing faces at their tops, as and for the purpose described.

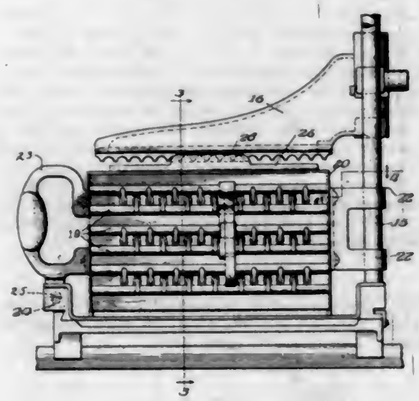
1,692,335. WASTE RETAINER. REAMEY H. DYER, Roanoke, Va. Filed Sept. 29, 1927. Serial No. 222,773. 5 Claims. (Cl. 308—89.)



1. A waste retainer for car axle journal boxes, comprising right and left hand sections, each composed of an end member and a side member, the latter having an upstanding flange on its inner edge to engage the journal brass, said members also having downward extending flanges on their outer edges, and a swinging latch to lock said end members together.

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1,692,336. GRIPPING DEVICE FOR SLICING MACHINES. JOSEPH FOLK, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Apr. 23, 1927. Serial No. 185,948. 8 Claims. (Cl. 146—217.)

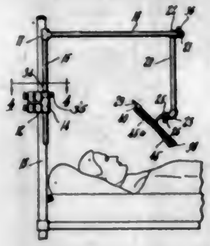


1. A work holder for slicing machines comprising a work support, an upright mounted on said work support at one side thereof, a top grip slidably mounted on said upright, an end grip attached to said upright, and means on the top of said end grip for engaging said top grip to hold said end grip in place on said work support.

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1,692,337. ADJUSTABLE HOLDER. DOROTHY FORBES, Boston, Mass. Filed Apr. 22, 1927. Serial No. 185,762. 1 Claim. (Cl. 45—82.)

For use with a bedstead and a bed thereon, an adjustable holder comprising, in combination, a clamp adapted to engage opposite sides of one of the upright corner posts of the bedstead, above the bed, and provided with a socket offset from the clamp and post; a crane including an upright member journaled in the socket and vertically adjustable therein, and provided with means whereby it may be supported by the socket and permitted to turn therein when in any position to which it is vertically adjustable, the crane including also a horizontal member fixed to and projecting from the upper end of the upright member, and adapted to swing horizontally on the axis provided by the upright member and the socket to different angular positions relative to the corner post and the bed; a terminal arm hinged to the swinging end of the horizontal member and adjustable to a vertical and to various in-



clined positions, means being provided for securing said arm to the crane to hold the arm in any position to which it may be adjusted; a supporting rack; and a ball and socket joint connecting said rack with the lower end of the terminal arm, said joint being provided with means whereby it may be locked to confine the rack in different angular positions relative to the terminal arm, the arrangement being such that the rack may be supported in various positions over the bed, and may be displaced with the terminal arm and the crane to leave the bed unobstructed.

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1,692,338. CLAMPING DEVICE FOR SLICING MACHINES. EUGENE R. FOX, Southport, England, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed May 6, 1927. Serial No. 189,297. 8 Claims. (Cl. 146—217.)



1. A clamp for slicing machines having means for gripping material to be sliced, a guard for said gripping means, springs for holding said guard in position to shield said gripping means for permitting said guard to move into a position to expose said gripping means, guides for directing the movement of said guard, and stops for limiting the movement of said guard towards its shielding position.

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1,692,339. INTERNAL-COMBUSTION ENGINE. WILLIAM H. HILL, Canton, Ohio. Filed Apr. 20, 1927. Serial No. 185,170. 9 Claims. (Cl. 123—191.)



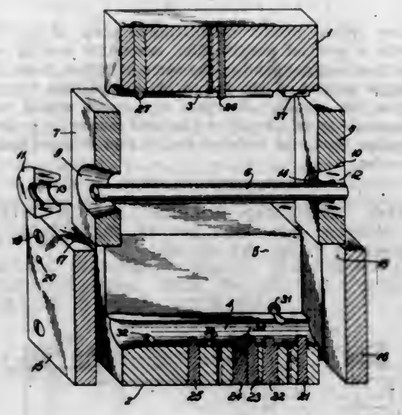
1. An internal combustion engine including a cylinder, a piston reciprocating in the cylinder, a substantially flat



initial combustion chamber consisting of an extension of one end of the cylinder bore, spark ignition means in the initial chamber, a secondary combustion chamber of greater capacity and height than the initial chamber and of a height substantially equal to its width, located entirely at one side of the end of the cylinder, and communicating tangentially with one side of the initial chamber whereby upon the compression stroke of the piston the mixture will be rapidly displaced from the initial chamber and discharged tangentially into the secondary chamber and caused to rotate in the secondary chamber, the rotation being accelerated by expansion of burning gases from the initial chamber, the flame velocity being added to the velocity of the gases rotating in the secondary chamber, causing the same to be enveloped by the flame before the combustion reaches the center of the mass.

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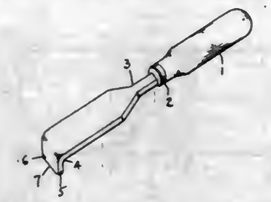
1,692,340. MOLD FOR MUSICAL-INSTRUMENT BODIES OR SIMILAR ARTICLES. ROBERT B. LATTIN, West Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a Corporation of Connecticut. Filed Jan. 27, 1927. Serial No. 163,924. 12 Claims. (Cl. 18—42.)



1. A mold for a hollow article of the type described, comprising in combination separable body members having registering recesses therein which together constitute a mold opening conforming in shape to the exterior contour of the article to be molded, one of the said body members being provided with a hole communicating with the recess therein and having its axis at an angle to the direction of separation of the said members, a removable core normally extending longitudinally through the said mold opening and conforming in shape to the interior contour of the article to be molded, a plug adapted to extend through the said hole in the last said body member and serving to form a correspondingly located hole in the article to be molded, and means operable prior to molding to move the plug inward relatively to the last said body member substantially into position for engagement with the core, the said means serving to hold the plug in fixed relation to the said body member while relative movement between the body members is effected to close the mold and also serving to move the plug outward relatively to the said body member after molding so as to withdraw it from the molded article and thereby permit the said article to be separated from the said body member.



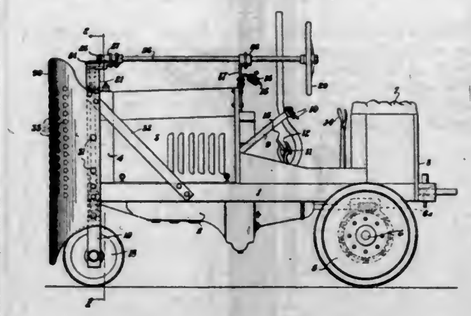
1,692,341. EYELASH CURLER. CLARA H. LOCKE, Plainfield, N. J. Filed Mar. 23, 1928. Serial No. 264,175. 2 Claims. (Cl. 132—31.)



1. An eyelash curler comprising a device of substantially flat ribbon shaped material, mounted on a suitable handle, the end of said device being bent at right angles thereof, having its depending end curved at the corner portions and its edges rounded.

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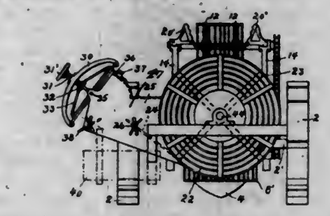
1,692,342. TRACTOR. MORRELL E. MILLER, Warren, Ohio. Filed Sept. 16, 1925. Serial No. 56,729. 1 Claim. (Cl. 180—25.)



A tractor, having an internal combustion engine mounted on the frame of the tractor at its forward end, a radiator in front of said engine, a substantially rectangular frame mounted vertically in front of the radiator at the forward end of the tractor frame, a vertical shaft carried by the rectangular frame, a taction steering wheel carried by said shaft, and a curved bumper plate connected to said rectangular frame and extending in front of the radiator and wheel and provided with a series of perforations in front of the radiator.

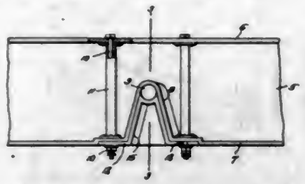
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1,692,343. POTATO DIGGER AND SEPARATOR. CARL FREDRIK MÖLLER, Oslo, Norway. Filed Mar. 11, 1925, Serial No. 14,714, and in Great Britain Mar. 25, 1924. 3 Claims. (Cl. 209—119.)



1. A machine for use in separating and sorting potatoes, stones and other matter in which the sorting mechanism comprises a resilient surface, means for adjustably stretching the resilient surface, and positive means for throwing the potatoes and stones upward against the resilient surface.

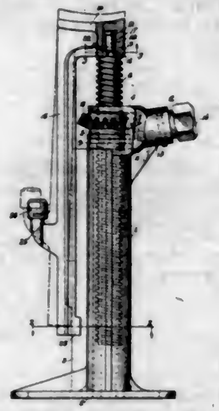
1,692,344. WHEEL FELLY. DANIEL E. MORAN, Sr., Monrovia, Calif. Filed June 27, 1927. Serial No. 201,884. 3 Claims. (Cl. 301—5.)



1. In a felly having a flange, a portion of the flange being directed inwardly to form a valve stem receiving opening, and a filler member, means for pivotally mounting the filler member.

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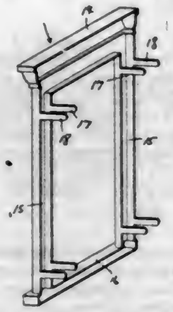
1,692,345. LIFTING JACK. JOHN A. MORRISON, Mansfield, Ohio. Filed Dec. 21, 1925. Serial No. 76,612. 4 Claims. (Cl. 254—133.)



1. A lifting jack including a standard having a plurality of vertical ribs thereon, a lifting member carried by the standard, a reduced shank upon the upper end of the lifting member and provided with a squared portion, and a lifting arm having a socket provided with a squared portion to receive the squared portion of said shank, and having means arranged to selectively slidably engage any one of said vertical ribs.

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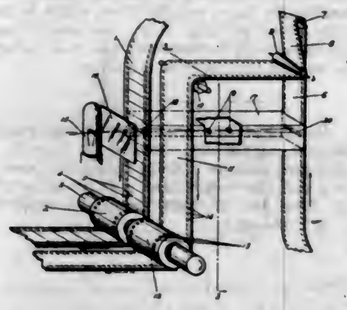
1,692,346. DOLL-HOUSE CONSTRUCTION. REINHARDT NITSCHKE and HENRY SALOIS, Lawrence, Mass. Filed Mar. 23, 1927. Serial No. 177,661. 3 Claims. (Cl. 46—37.)



1. A window frame member comprising a unitary sheet member formed to provide a rectangular frame of U-shaped cross section, the free edges of said frame being formed with a plurality of pairs of projecting tongues in a predetermined relation extending from the rear free edge portions thereof in parallel relation.

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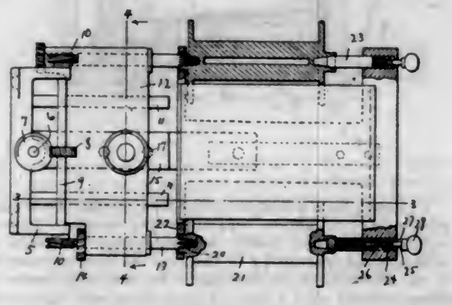
1,692,347. OPTICAL PRINTER. FREEMAN H. OWENS, New York, N. Y. Filed Nov. 12, 1926. Serial No. 147,978. 6 Claims. (Cl. 88—24.)



1. An optical printer comprising a strip of negative film and a strip of positive film, means for moving said strips synchronously and in the same direction, means for causing a portion of the length of said positive strip to move in the opposite direction at a point spaced from and opposite to said negative film, and means for projecting images from said negative film to said positive film at such point.

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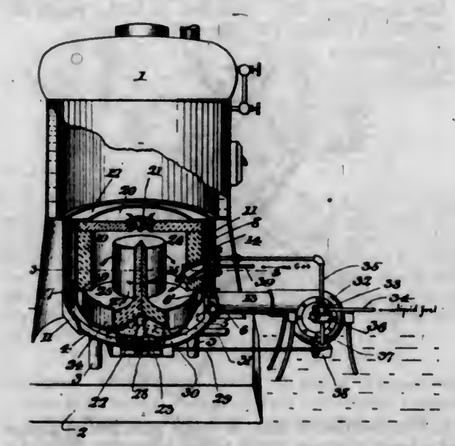
1,692,348. STRIP-MAP HOLDER. FRED A. PULLEN, La Fontaine, Ind. Filed Oct. 18, 1927. Serial No. 226,943. 1 Claim. (Cl. 40—42.)



In a strip map holder, a stationary frame, a gear mounted thereon adapted for operative connection with a speedometer drive shaft, a counter-shaft journaled on said frame, means operatively connecting the same with said gear, gears mounted on each end of said counter-shaft, a carriage slidably arranged on said frame, a pair of shafts journaled for rotation in said carriage, means operatively connecting said shafts for opposite rotation with said counter-shaft gears, manually operated means for selectively moving said carriage shafts into and out of operative position, a map spool frame, means detachably connecting said frame with said carriage, a pair of spools mounted in said map frame and arranged for rotation by said carriage shafts and means for manually operating said spools when the carriage shafts are disconnected from said speedometer drive shaft.



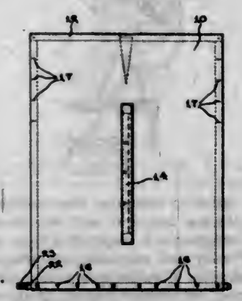
1,692,349. LIQUID-FUEL BURNER. FRANCISCO ANGEL QUIROZ and ERNEST HENRY PEABODY, New York, N. Y., assignors to Peabody Engineering Corporation, a Corporation of New York. Filed Apr. 9, 1926. Serial No. 100,838. 7 Claims. (Cl. 158—28.)



1. In a liquid fuel burner, a combustion chamber, a rotary table at the bottom of the chamber upon which the fuel is fed, said table carrying a central abutment for reflecting the heat, means at one side of the chamber for feeding fuel with an admixture of air to the table, said chamber having a discharge opening so placed with respect to the abutment that the burning gases are constrained to move above the abutment toward the discharge opening.

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1,692,350. NETHER GARMENT. ANNIE E. ROBERTSON, Coffeyville, Kans. Filed Oct. 18, 1927. Serial No. 226,889. 3 Claims. (Cl. 2—224.)

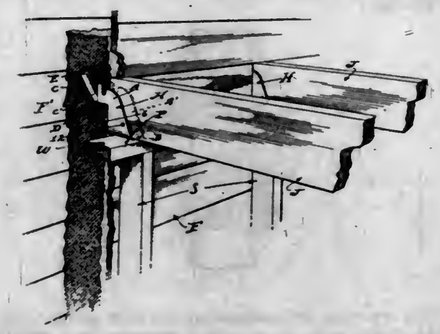


1. A nether garment comprising a rectangular piece of which one end edge defines the waist-band, the side edges adjacent said waist-band and the lower edge being provided with complemental fasteners which when attached cause the connected sections to define leg portions.

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1,692,351. JOIST HANGER. FRANKLIN N. ROPP, Los Angeles, Calif. Filed Sept. 12, 1927. Serial No. 218,980. 4 Claims. (Cl. 72—108.)

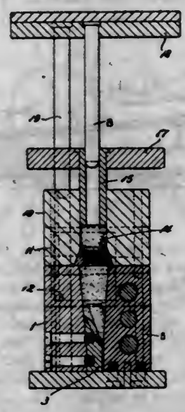
3. A hanger comprising a U-shaped stirrup for receiving a joist, an anchor having an outer horizontal supporting portion permanently secured to the upper portion of said stirrup, and a central portion inclined inwardly and



upwardly from the stirrup and bent forwardly at its inner end to form an anchor when the same is embedded in a wall.

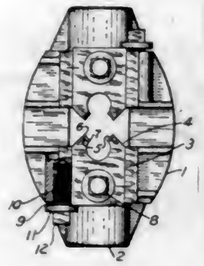
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1,692,352. MOLD FOR MUSICAL-INSTRUMENT MOUTHPIECES. WILLIAM F. SCHMALZ, Rockville, and ROBERT E. DODD, Hartford, Conn., assignors, by mesne assignments, to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a Corporation of Connecticut. Filed Sept. 11, 1926. Serial No. 134,855. 10 Claims. (Cl. 18—34.)



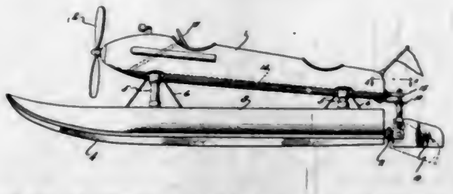
1. A mold for the mouth piece of a musical instrument or for a similar article, comprising in combination a body member having a vertical recess therein conforming to the exterior contour of the major portion of the article to be molded and having at one side a vertical slot therein communicating with the recess at one side thereof, a vertical plate adapted to fit and close the said slot and relatively movable laterally with respect to the body member during assembly and disassembly, the inner edge of the plate when in assembled relation with the body member forming an exterior flat surface on the said article, a core lug carried by the plate and projecting laterally into the recess when the body member and plate are in assembled relation so as to form a lateral opening in the said article, and a depending central core rod movable vertically into or out of engagement with the said core lug, the said rod forming a central opening in the said article communicating with the lateral opening formed by the lug.

1,692,353. DIESTOCK. LEO V. STOELTZLEN, Erie, Pa., assignor to Reed Manufacturing Company, Erie, Pa. Filed Jan. 6, 1927. Serial No. 159,304. 1 Claim. (Cl. 10—121.)



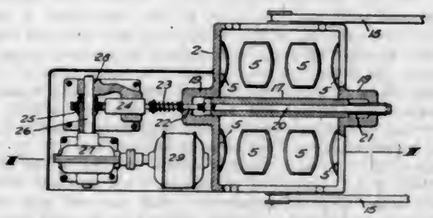
In a die stock, the combination of a body having a two-sided chaser guide groove and a screw-threaded opening along one wall of the groove; a chaser slidingly mounted and freely movable in the groove and supported at its side edges directly and only by the walls of the guide groove; and a screw in the screw opening having a head overlapping the end of the chaser, said screw forming the only backing support of the chaser and supporting said chaser only at one edge whereby the lateral yielding of the chaser in the groove under the torque of cutting pressure tends to close the die and the backing off movement tends to open the die.

1,692,354. ICE BOAT. PETER STONE, Detroit, Mich. Filed Jan. 24, 1927. Serial No. 162,973. 4 Claims. (Cl. 114—43.)



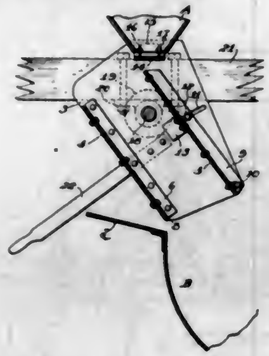
1. In a combined ice- and water-boat, the combination of a boat body, means adapted to support the boat on ice and in water, a guiding rudder mounted at the rear of said means, means for pivoting said rudder laterally, said rudder being pivotal vertically independently of the means for effecting lateral pivoting whereby the same may assume correct position for guiding the boat on ice and in water and means acting on the rudder to cause it to forcibly engage ice and submerge in water.

1,692,355. BLOCK-MOLDING MACHINE. FRANCIS J. STRAUB, New Kensington, Pa. Filed Nov. 16, 1926. Serial No. 148,674. 4 Claims. (Cl. 25—41.)



1. A block molding machine provided with a vertically arranged molding casing, a vertically movable bottom plate, a presser plate, a reciprocable side plate forming one confining wall of the casing and provided with a spring retracted stem, and an actuating eccentric therefor.

1,692,356. MEASURING BOX. FRANCIS J. STRAUB, New Kensington, Pa. Filed Feb. 1, 1927. Serial No. 165,238. 5 Claims. (Cl. 221—107.)



1. The combination with an upper open bottom hopper and a lower receiving casing having a laterally extending material supporting shelf, of an interposed pivotally mounted measuring box having an adjustable side wall, a cut off gate for the hopper and a continuously open bottom, and means for shifting the measuring box on its pivotal mounting to move contained material from direct supporting engagement with the shelf to the casing.

1,692,357. MACHINE FOR SPINNING COTTON AND OTHER TEXTILE MATERIALS. AMBROGIO TURATI, Turin, Italy. Filed Oct. 10, 1927, Serial No. 225,245, and in Italy Dec. 18, 1926. 3 Claims. (Cl. 19—130.)



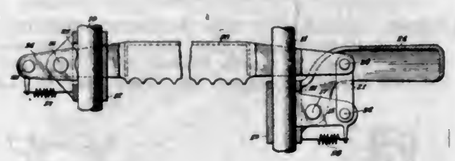
1. In a ring spinning machine, the combination with a rear pressure cylinder, and rear and intermediate grooved cylinders, of a bridge piece suspended from the pivots of the pressure cylinder and extending between the rear and intermediate cylinders substantially tangential to said cylinders and adapted to support and guide the roving in its passage between the pair of rear cylinders and the pair of intermediate cylinders.

1,692,358. CLEANING GELATINOUS SURFACES AND THE LIKE. BERTHA SUGDEN, Boston, Mass., assignor, by mesne assignments, to Technicolor Motion Picture Corporation, Boston, Mass., a Corporation of Maine. Filed Jan. 20, 1926. Serial No. 82,622. 2 Claims. (Cl. 87—5.)

1. A method for cleaning gelatinous surfaces, comprising immersing the same in a dilute, volatile solution of approximately 2% of ammonia and ethyl alcohol inert with respect to the gelatinous material, followed by drying.

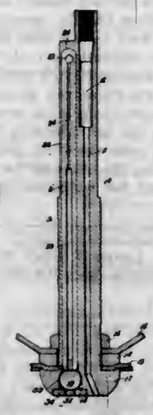


1,692,359. CLAMP FOR SLICING MACHINES. WILLEM PETRUS VAN LAMMEREN, Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Aug. 16, 1926, Serial No. 129,414, and in Germany June 11, 1925. 9 Claims. (Cl. 146—217.)



1. A clamp for holding material to be sliced comprising a clamping member, a support for said clamping member, a lock for automatically holding said clamp against reverse movement when placed into contact with the material to be clamped thereby, and means connecting said clamp with said lock for shifting said lock to its holding position by the upward force exerted on said clamp by the material held thereby.

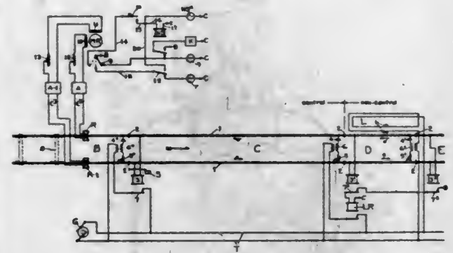
1,692,360. PRESSURE GAUGE. IRVING L. WOLCOTT and WILLIS H. GRANT, Cleveland, Ohio; said Grant assignor to said Wolcott. Filed May 7, 1923. Serial No. 637,140. 1 Claim. (Cl. 73—110.)



A pressure gauge including a stem, a transparent tube closed at one end and located in a longitudinal bore of the stem, a collapsible bulb secured to the other end of the tube, the bore of the tube being of substantially uniform diameter near the bulb and of a substantially uniform and materially reduced diameter near the closed end portion thereof, said bulb containing liquid extending upward a short distance into the bore of the tube to form a column in the tube when external pressure is applied to the bulb, the stem being provided with an enlarged recess for receiving the bulb, a ring nut forming a closure for the recess and being provided with a central aperture for exposing the bulb to pressure external to the bulb.

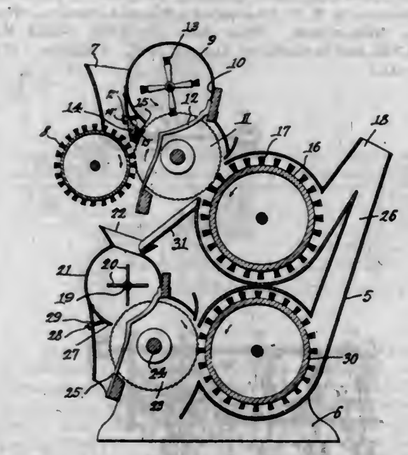
1,692,361. TRAIN CONTROL. WALTER W. WENHOLZ, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y. Filed Apr. 7, 1924. Serial No. 704,749. 26 Claims. (Cl. 246—63.)

1. A train control system of the continuous inductive control type for railroads provided with blocks comprising, means associated with each block for impressing across the track rails at the exit end thereof an alternating current voltage only if the block next in advance is unoccupied, receiving coils on a vehicle in front of the first pair



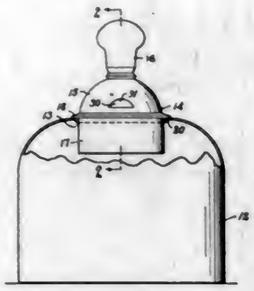
of wheels and axles thereof and disposed over the track rails in inductive relation thereto, a two-element relay of the induction type on the vehicle having its field windings connected separately to said receiving coils, and means for causing relative phase displacement of the currents of said field windings with respect to the induced voltage in the receiving coils.

1,692,362. COTTON GIN. JOHN WOOLDRIDGE, Childress, Tex., assignor of one-half to Lucille Wooldridge Farr, Childress, Tex. Filed June 22, 1926. Serial No. 117,760. 1 Claim. (Cl. 19—57.)



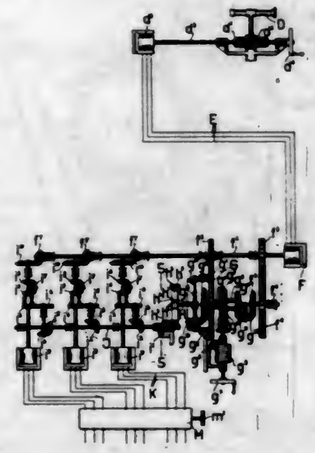
A cotton gin embodying a housing, a hopper at one end of the housing through which material is fed to the housing, a gin saw supported within the housing adjacent to the discharge end of the hopper, a rotary brush operating within the housing and contacting with the gin saw to remove material therefrom, a brush housing having an open lower extremity and into which a portion of the gin saw extends, a rotary brush within the brush housing and disposed above the gin saw and contacting with the gin saw to remove material therefrom, a depending brush hingedly connected with the brush housing and contacting with the gin saw at a point between the first mentioned brushes, means for adjusting the depending brush with respect to the gin saw and another rotary brush for contacting with the gin saw adjacent to the lower edge thereof.

1,692,363. SIGNAL MEANS FOR BOILING LIQUIDS. KLAAS ZWART, Sheboygan Falls, Wis. Filed Apr. 19, 1928. Serial No. 271,191. 3 Claims. (Cl. 116—70.)



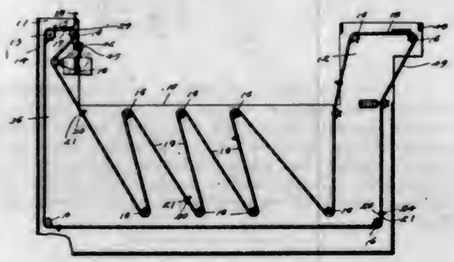
1. A signal means incorporated in a cover for a utensil comprising a dome, an annular flange depending therefrom, a plate interposed between said dome and said flange, dividing said cover into an upper section and a lower section, an opening adjacent to the wall of said dome in said plate for forming a passage between said sections, an opening in said dome having an upper edge in axial line with said passage, whereby steam in said lower section will pass through said passage and contact said upper edge of said opening in said dome.

1,692,364. TRAINING MECHANISM FOR GUNS. WALTHER AKEMANN, Essen, Germany, assignor, by mesne assignments, to N. V. Hazemeyer's Signal-Apparaten, Hengelo, Netherlands. Filed Nov. 16, 1920, Serial No. 424,522, and in Germany Apr. 12, 1917. 3 Claims. (Cl. 89—41.)



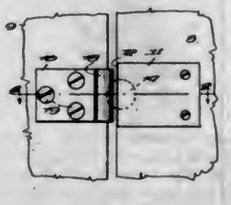
1. Apparatus for imparting the lateral direction to a plurality of guns from a distant observation point, comprising a telescope at said point, an electric transmitter mechanically connected to said telescope to rotate therewith, an electric receiver electrically connected to said transmitter, an auxiliary electric transmitter for each gun operatively connected to a corresponding receiver at each gun, which controls the directing thereof, and a transmission gearing between said first named receiver and said auxiliary transmitters including a rotatable element positively connected to said first named receiver and adjustable in accordance with the distance of the target from the observation point and an element positively connected to said auxiliary transmitters and movable in a straight line, said elements constituting a slide crank device forming part of said transmission gearing.

1,692,365. APPARATUS FOR SCALDING POULTRY. WILLIAM C. BARRIER, Fremont, Nebr., assignor of one-third to Howard W. Loomis, Fremont, Nebr. Filed Feb. 16, 1928. Serial No. 254,801. 15 Claims. (Cl. 17—11.)



1. In poultry scalding apparatus, a tank, carrier bars, means for causing the bars to travel longitudinally of the tank in opposite directions, slides at opposite ends of the tank, poultry supports slidable thereon and when engaged with one of the slides moving toward the tank and when engaged with the other thereof moving away from the tank, the end of the first named slide being disposed over the carrier bars at the beginning of their longitudinal travel in one direction and having a latch preventing the passage of the poultry supports thereover, means operated by the passage of a bar releasing said latch, means upon the poultry support engaging the bar releasing the latch when the poultry support falls from the slide, and means upon said standards and engaging the other of the slides at the opposite end of the travel for withdrawing the poultry supports from the bars.

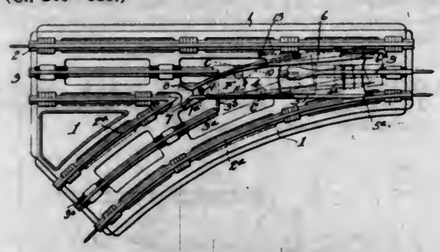
1,692,366. LATCH. JAMES H. BEAN, Sisson, Calif. Filed Apr. 28, 1924. Serial No. 709,573. 1 Claim. (Cl. 292—73.)



The combination with a frame member and a closure member having adjacent edges, of a substantially U-shaped keeper embracing the said edge of one member and having an opening through its central portion, a rotatable latch member behind the keeper and of greater area than the opening, said latch member projecting through the opening, a spring bearing against the rear side of the latch member to yieldingly hold it in projecting position through the opening, and a second keeper member secured to one side of the other member and having a free yielding portion extending across the edge of the said member to which it is secured and between the two members in line with the first keeper member, said yielding portion having an opening therethrough of less area than the opening in the first keeper member and snugly receiving the projecting end of the rotatable latch member, said spring being capable of movement toward and from the first keeper member to insure said snug reception.

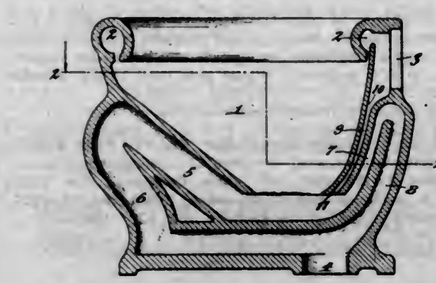


1,692,367. AUTOMATIC SWITCH. HARRY S. BECKER, River Forest, Ill., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 3, 1926. Serial No. 133,462. 3 Claims. (Cl. 246—388.)



1. A switch for toy electric railways including a base, a straight and curved track section including turn-out and stock rails mounted on the base, a frog including straight and curved lead rails pivoted to the base adjacent its narrow end, a spring mounted at the underside of the base and consisting of spring arms, means for anchoring the spring to the base at the junction of the arms, one of said arms engaging with the frog and the other of said arms engaging with the base.

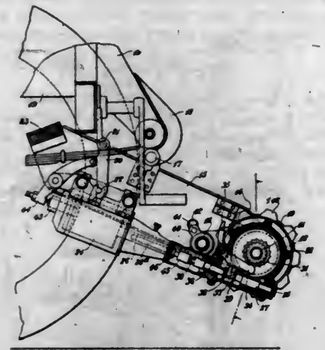
1,692,368. WATER-CLOSET. JOHN J. BOYNE, Buffalo, N. Y. Filed Feb. 17, 1926. Serial No. 88,732. 1 Claim. (Cl. 4—73.)



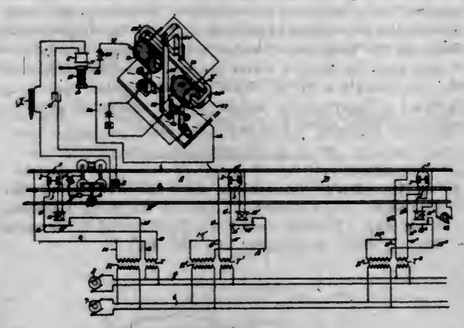
A water closet comprising a bowl; a water distributing rim arranged above the bowl and having a water inlet, an outlet at the bottom of the bowl; a main siphon having an ascending passage communicating at its lower end with the lower part of the bowl and a descending passage with said outlet; an auxiliary unobstructed overflow having no communication at its top with said water inlet and having a narrow ascending passage communicating with the lower part of the bowl opposite the lower end of said ascending siphon passage and a wide descending passage connecting the upper end of said ascending overflow passage with said outlet; and a descending unobstructed jet passage having no communication at its top with said overflow and extending directly from said water inlet along the ascending overflow passage and terminating at its lower end adjacent to the bottom of the bowl opposite the lower end of the ascending siphon passage and adapted to have its lower end submerged in the same water in the bowl which seals the lower ends of the ascending passages of the main siphon and auxiliary overflow.

1,692,369. LIFE GUARD OR OBSTRUCTION REMOVER FOR MOTOR, ROAD, AND OTHER VEHICLES. VERNON JOHN PHILIP CLIFFORD, London, England. Filed Oct. 3, 1927, Serial No. 223,810, and in Great Britain Oct. 12, 1926. 8 Claims. (Cl. 293—17.)

1. A life guard or obstruction remover comprising a frame pivotally supported between its ends, a guard member pivotally mounted at the forward end of the frame, a latch at the rear end of the frame normally holding the forward end of the frame raised, and means for releasing the latch when the guard member strikes an obstruction and is swung downwardly.



1,692,370. AUTOMATIC TRAIN-CONTROL SYSTEM. CHARLES F. ESTWICK, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Mar. 7, 1917, Serial No. 152,972. Renewed Dec. 7, 1926. 5 Claims. (Cl. 246—37.)

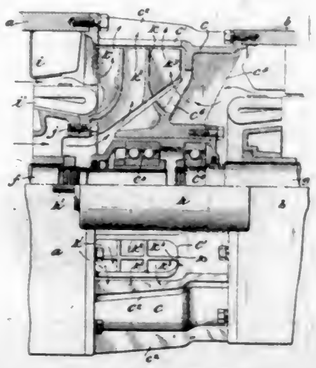


1. In an automatic train control or cab signaling system, in combination: a railway vehicle; a stationary conductor extending along the path of movement of the vehicle; traffic controlled means for supplying a periodic signaling current to said conductor; a coil on the vehicle directly coupled in inductive relation with said conductor; a circuit on the vehicle including said coil and tuned sharply to resonance for the single particular frequency of said signaling current; an electrical amplifying device included directly in said circuit; a relay affected only by current of the frequency of said signaling current and controlled by the current supplied from said amplifying device; and train control apparatus on the vehicle controlled by said relay.

1,692,371. COMBINATION ELECTRIC DRIVE. CHARLES FROESCH, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 9, 1927. Serial No. 166,860. 5 Claims. (Cl. 172—239.)

1. A combination drive unit comprising motor and generator housings, a motor and generator therein having in-

dependently mounted armatures, a housing connecting the two, means therein for supporting the motor and generator armatures independently, vents in the ends of the unit and



in the connecting housing, and means carried with the generator armature for ventilating the motor and generator separately.

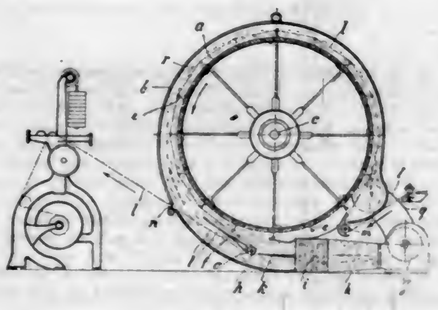
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1,692,372. TREATING ARTIFICIAL SILK. HENRY A. GARDNER, Washington, D. C. Filed May 13, 1927. Serial No. 191,276. 5 Claims. (Cl. 8—13.)

1. Process of delusterizing artificial silk fibers which comprises impregnating the same with a dilute aqueous solution of a titanium salt which is thermally decomposable in the presence of water, and heating the impregnated fibers in the presence of water whereby there is deposited in and upon the fibers a water-insoluble titanium compound, the concentration of the titanium salt solution used being such as to increase the weight of the so-treated artificial silk fibers from about 4% to about 0.5%.

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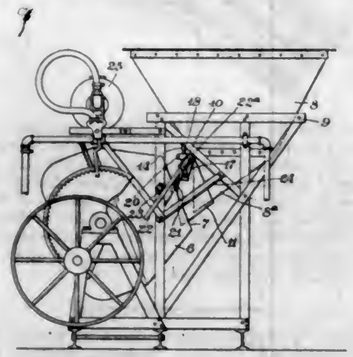
1,692,373. DRYING MEANS FOR YARN-SIZING MACHINES. PAUL GREVE, Lindau-on-the-Harz, Germany. Filed Apr. 22, 1925, Serial No. 25,172, and in Germany May 2, 1924. 4 Claims. (Cl. 34—48.)



1. In a device of the kind described in combination, a slowly rotatable, comparatively large, closed drying drum, an outer casing, eccentrically and spacedly surrounding said drum, and forming a channel of gradually decreasing diameter between the casing and the drum, hot-air-admitting means at the broad end of the channel, and air-discharging means at the narrow end of said channel, guiding means, spacedly and peripherally mounted on the drum in the interior of the channel, a supply of thread-like material in contact with said guiding means and passing from the broad end of the channel to the narrower end thereof, and substantially plate shaped subdividing means substantially in the direction of the thread-like material and extending from the air-admitting means to said material.

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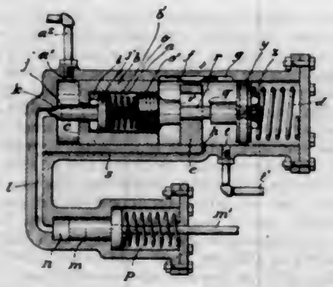
1,692,374. HOPPER CONCRETE MIXER. GERHARD JAEGER, Columbus, Ohio. Filed Feb. 10, 1926. Serial No. 87,405. 6 Claims. (Cl. 83—73.)



1. A hopper to receive components of a mixture, said hopper having its discharge end provided with a movable spout and a discharge closing gate and means for imparting a greater movement to the gate than to the movable spout.

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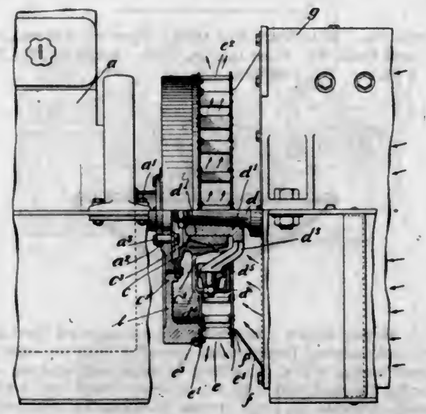
1,692,375. PRESSURE-RELIEF VALVE FOR FLUID PUMPS. LYMAN C. JOSEPHS, Jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1927. Serial No. 214,061. 3 Claims. (Cl. 137—153.)



1. In a pressure relief valve for fluid pumps having means to control the actuation of a pressure forming means, a cylinder for connection with the pressure side of the pump, means in the cylinder operable upon an increase of pressure to initiate actuation of controlling means to reduce the presure, means associated with the actuating means, and unresponsive to gradual increases in pressure to prevent actuation of the controlling means, and means to cause actuation of the controlling means after a predetermined interval, said mechanism responding to a sudden surge in pressure to cause substantially instantaneous actuation of the controlling means.



1,692,376. GENERATOR FAN CONSTRUCTION. WILLIAM B. JUPP, Brooklyn, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1927. Serial No. 214,124. 2 Claims. (Cl. 230—135.)



1. In combination, two units, connecting means therebetween, a flywheel formed with a web and an inertia portion offset with respect thereto and projecting toward one of the units, a fan secured to the face of the inertia portion of the flywheel adjacent said last named unit, and means to secure the connecting means within the inertia portion and the fan.

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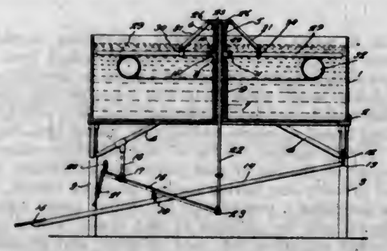
1,692,377. CAR-BODY CONSTRUCTION. WILLIAM B. JUPP, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 26, 1927. Serial No. 235,917. 3 Claims. (Cl. 105—35.)



1. A car construction of the character described comprising a body, a plurality of power plants carried therein, a central aisle section through the car, center doors at either end of the car whereby access may be had to the car through the ends thereof, and means to mount the power plants to preserve the continuity of the aisle through the car and doors from end to end thereof.

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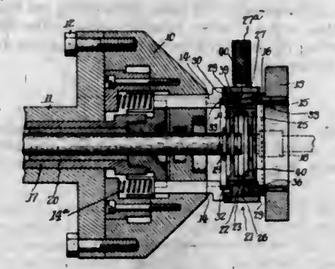
1,692,378. DEVICE FOR TESTING AUTOMOBILE TIRE INNER TUBES. JAMES A. KEENA and JESSE L. SHARKEY, Hutchinson, Kans. Filed Aug. 1, 1927. Serial No. 209,693. 10 Claims. (Cl. 73—56.)



1. A tire tube tester comprising a tank, a vertically reciprocating member within the tank, arms pivoted to said member and arranged in a vertical position when said member is in its uppermost position and shiftable on the downward movement of said member to a horizontal position, means for raising and lowering said member including a rod extending downwardly through and below the tank, and actuating means coupled to said rod.

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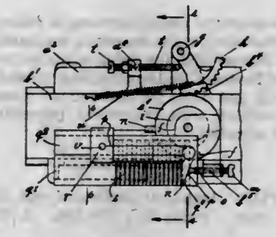
1,692,379. WORKHOLDER. HERBERT E. KEMPTON, Chicago, Ill., and KEITH F. GALLIMORE and RAYMOND M. WOYTYCH, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 25, 1924, Serial No. 728,063. Renewed Sept. 21, 1928. 7 Claims. (Cl. 279—1.)



7. In apparatus of the class described, in combination, a body constructed to support a work blank, a plurality of clamping members slidably mounted in said body, an actuator ring rotatably mounted in said body, and means independently connecting said ring with each clamping member, said means having a sliding wedge connection with the latter.

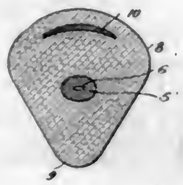
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1,692,380. NEEDLE-FEEDING MECHANISM. HERMANN NACKEN, Wurselen, Germany, assignor to Aachener Maschinenbau-Gesellschaft m. b. H., Aachen, Germany. Filed Mar. 13, 1925, Serial No. 15,332, and in Germany Mar. 31, 1924. 5 Claims. (Cl. 90—11.)



1. A needle feeding mechanism, comprising a slide movable to and fro, a stack holder carried by the slide, this stack holder forming a guide for a row of needles and having a delivery channel from which the needles are emitted one at a time, a rotary carrying head mounted on the slide, means for rotating the head in one direction during the forward stroke and in the opposite direction during the return stroke of the slide, a radial groove in the top surface of the rotary head adapted to be positioned below the outlet of the delivery channel and to receive a needle from the same at the end of the return stroke of the slide, means for retaining the needle in the said groove during the forward stroke of the slide, and means arranged for cooperation with the rotary head and adapted to shift the needle radially into the proper working position.

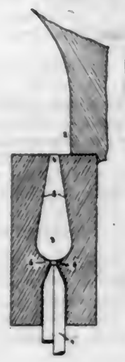
1,692,381. THERMOMETER. HARRY Y. NORWOOD, Avon, N. Y., assignor to Taylor Instrument Companies, Inc., Rochester, N. Y., a Corporation of New York. Filed Jan. 5, 1925. Serial No. 476. 2 Claims. (Cl. 73—52.)



1. In a thermometer, a stem comprising an inner tubular portion and an outer tubular portion, the inner portion defining the bore and being formed by a relatively thin wall of colored glass.

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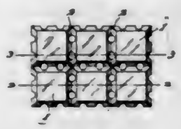
1,692,382. GAS BURNER. MAX NUSS, Darmstadt, Germany. Filed June 15, 1926, Serial No. 116,244, and in Germany Jan. 19, 1925. 1 Claim. (Cl. 158—99.)



In apparatus of the class described, a structure providing a firing chamber, a gas burner, a combustion chamber between the burner and the firing chamber, said combustion chamber having a restricted orifice formed to a broad slotted opening and inlets for fuel and air formed as broad slits and provided with transverse protecting portions of refractory material.

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1,692,383. TILE. PHILIP O'DWYER, Detroit, Mich. Filed Nov. 17, 1926. Serial No. 148,894. 1 Claim. (Cl. 72—18.)



A tile comprising a body of uniform thickness having beveled side faces extending from the upper face to the lower face of the tile, the lower edges of the side faces being adapted to contact with corresponding edges of other tiles, said side faces having vertically disposed recesses formed therein and leading from the under surface of the tile and terminating in spaced relation to its upper surfaces, the recesses being adapted to register with the recesses of adjoining tiles when set and provide openings between the tiles for the reception of cement bonds to secure the tiles to a foundation.

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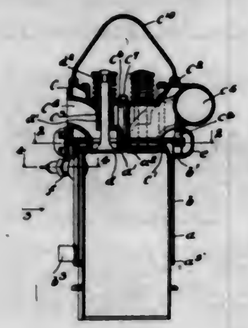
1,692,384. BLOTTER HOLDER. FRED C. PARTELL, Island Pond, Vt. Filed Dec. 14, 1926. Serial No. 154,779. 1 Claim. (Cl. 120—24.)



A blotter holder comprising a base member having a vertical opening therethrough provided with an enlarged lower end, a screw projecting through said opening and having its head seated in the enlarged lower end, a plate freely slidable on said screw, cooperating positioning means on the plate and body to hold the plate from revolving with respect to the body, a handle having an opening extending upwardly therein and provided with an enlarged lower end, a nut seated in said enlarged lower end and fitting said screw, and wedge pins extending into the handle at opposite sides of the nut to secure the same from rotation with respect to the handle.

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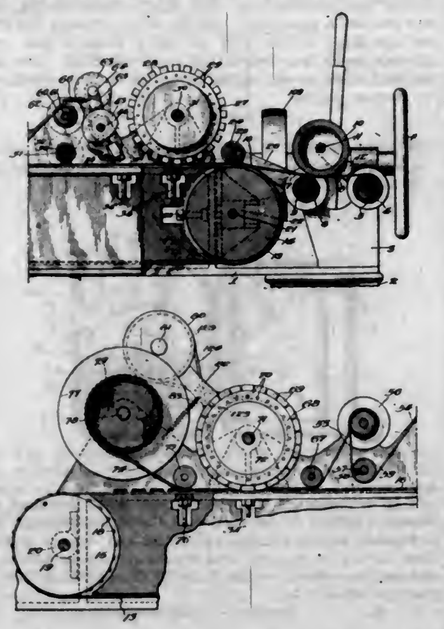
1,692,385. COOLING DEVICE FOR THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES. FREDERICK HENRY ROYCE, Elmstead, West Wittering, near Chichester, England, assignor to Rolls-Royce Limited, Derby, England. Filed July 31, 1926, Serial No. 126,283, and in Great Britain Sept. 24, 1925. 4 Claims. (Cl. 123—173.)



1. In a water cooled internal combustion engine, a cylinder, a water jacket enveloping and spaced from the top and sides of said cylinder and having its lowered ends secured with water tight fit to said sides, the top of said cylinder and jacket being provided with valve and bolt receiving bossed apertures having their bosses extending in watertight fit against the top of said jacket, a valve casing seated on the top of said jacket and detachably fixed to said cylinder and having cooling passages therein, and means providing a passageway for cooling liquid between said jacket and the passages in said casing, and a spark plug socket extending into said cylinders and secured to the water jacket and cylinder with a water passage from said jacket around said socket.



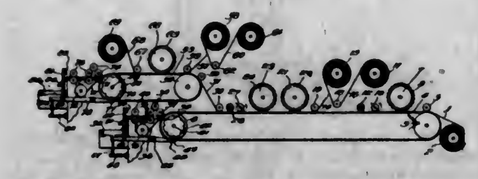
1,692,386. APPARATUS FOR MAKING PADS. OTTO G. SCHMITT, Chicago, Ill. Filed Nov. 10, 1926. Serial No. 147,604. 12 Claims. (Cl. 154—1.)



11. A machine comprising in combination, an endless conveyor, means for driving same, means for feeding thereto a continuous strip of flexible material, means adapted to act on said strip while moving forward on said conveyor to produce incisions of predetermined outline therein, means for removing as waste the severed material within the incisions, means for feeding and uniting another strip of material to said first mentioned strip, means adapted to act on said united sheet to produce incisions around the first mentioned incision, means for removing as waste the material exterior of these latter incisions to leave separated pads on the conveyor, means for feeding and uniting a base of gauze-like material to said separated pads, and means for imparting an increased speed of forward travel to the gauze relative to the conveyor to space the separated pads a greater distance apart on the gauze than on the conveyor.

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1,692,387. MACHINE FOR MAKING FLEXIBLE PADS. OTTO G. SCHMITT, Chicago, Ill. Filed Mar. 9, 1927, Serial No. 173,882. Renewed May 31, 1928. 4 Claims. (Cl. 154—1.)



1. A machine for simultaneously making pads of different sizes, comprising in combination, primary and auxiliary moving conveyors, means for feeding to the primary conveyor a strip of flexible adhesive tape, sets of rotatable means adapted to act successively on said strip to produce incisions of predetermined outline taking the form of the small size pad, means interposed therebetween adapted to feed and unite another strip of adhesive tape with the first mentioned strip, means for removing the surrounding waste material in connected strip form to leave separately formed pads of small size on the primary conveyor, means for feeding and uniting to said connected strip of waste an additional strip of adhesive tape, rotatable means acting thereon to produce incisions of predetermined outline taking the form of the large size pads, means for removing the surrounding waste, and means cooperatively associated with each conveyor for feeding and uniting strips of gauze-like material to said separated pads.

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1,692,388. SHINGLE. WILLIAM A. SCHOLLMEYER, Yonkers, N. Y. Filed Nov. 4, 1926. Serial No. 146,244. 3 Claims. (Cl. 108—33.)



1. A shingle having a metallic plate secured thereto adjacent an edge thereof and extending beyond said edge, said plate having a tab projecting therefrom in a direction opposite said extension adapted for use when the shingle is laid in one position and having oppositely projecting tabs on the extension thereof, adapted to use when the shingle is laid substantially at right angles to said position.

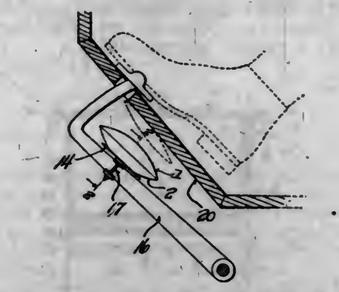
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1,692,389. COLOR-BINDING PREPARATION. EDUARD SCHWARZ, Chicago, Ill. Filed Aug. 4, 1926. Serial No. 127,185. 1 Claim. (Cl. 134—46.)

A color binder consisting in a mixture of the following ingredients: casein, glue, flour, linseed oil, china wood oil, borax, ammonia, thymol, benzol, and cobalt dryer in the following proportions: 5.3 units of casein, 0.3 units of glue, 0.3 units of flour, 2.4 units of linseed oil, 3.7 units of china wood oil, 0.8 units of borax, 0.1 unit of ammonia, 0.03 units of thymol, 0.1 unit of benzol, and 0.01 unit of cobalt dryer.

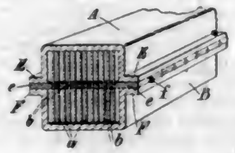
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1,692,390. CLUTCH CONTROL. ANDREW SMITH, Milwaukee, Wis., assignor to Smith Laboratories, Inc., Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 19, 1926. Serial No. 102,969. 6 Claims. (Cl. 192—109.)



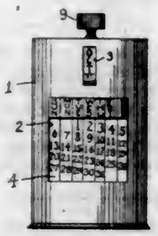
5. The combination of an automobile having a control pedal and a fluid cushioning device carried by said pedal, said device having relatively movable portions one of which is adapted to contact with a stationary portion of the automobile and one of which is attached to the said pedal, said device having means controlling the escape of fluid, whereby the motion of said pedal in one direction is automatically cushioned.

1,692,391. HEAT-TRANSFER APPARATUS. CECIL WHEATLEY STANCLIFFE, London, England. Filed Mar. 8, 1928, Serial No. 260,124, and in Great Britain Jan. 6, 1927. 2 Claims. (Cl. 257—245.)



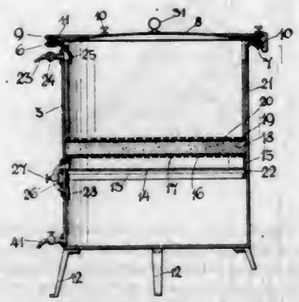
1. Heat transfer apparatus comprising an upper casing, a lower casing, a division wall comprising alternately assembled plates and spacing bars, means for clamping said upper casing, division wall, and lower casing together, and headers for inlet and outlet clamped at each end of said casing.

1,692,392. PERPETUAL CALENDAR. FAYE A. STEVENSON, Lancaster, Ohio. Filed Nov. 2, 1927. Serial No. 230,404. 10 Claims. (Cl. 40—111.)



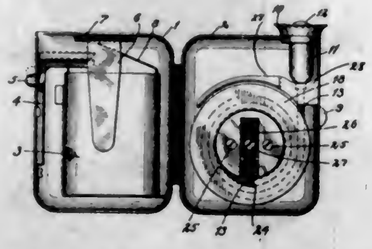
1. A calendar comprising an outer shell having openings therein, a cylinder revolvably positioned inside said outer shell provided with numerals denoting days of the mouth arranged in numerical order and in spiral groups, said numerals extending entirely around the cylinder, said cylinder further adapted to carry legends indicating the months of the year, said month numerals and month legends being so arranged as to be exposed through the said openings in the outer shell when the cylinder is revolved and so arranged as to be turned together in one continuous direction in relation to the outer shell for exhibiting the monthly calendars in proper order throughout the year.

1,692,393. APPARATUS FOR FILTERING AND BOTTLING FLUIDS UNDER PRESSURE. GOTTLIEB STRIFFLER, Chicago, Ill. Filed Jan. 20, 1928. Serial No. 248,077. 2 Claims. (Cl. 210—103.)



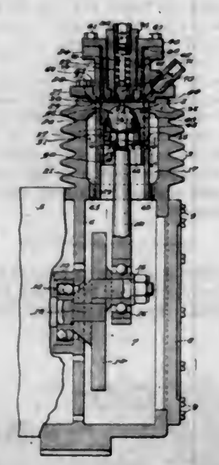
1. In a device of the class described a container, a lid therefor, means for seating said lid tightly and firmly onto the container, a false bottom in said container arranged at a distance from the real bottom thereof, a filter arranged in said container at a distance above said false bottom, an air compressing device communicating with the top portion of the container, an inlet pipe communicating with said portion, a pipe connecting the space between the filter and the false bottom with the space beneath said false bottom, means for conducting compressed air into said last named space, and an outlet on the container adjacent the bottom thereof.

1,692,394. FLASH LIGHT. AUGUST SUNDH, Hastings upon Hudson, N. Y. Filed Oct. 29, 1925. Serial No. 65,545. 9 Claims. (Cl. 240—10.5.)



1. In a device of the class described, a sectional enclosure, a battery in one section of the enclosure and a reel in another section of said enclosure, and contact mechanism carried by the reel and arranged to cooperate with said battery when the sections of the enclosure are in closed position.

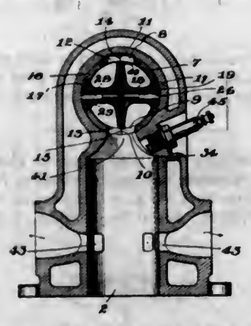
1,692,395. COMPRESSOR. JOSEPH R. THOMAS, Philadelphia, Pa., assignor, by mesne assignments, to Widmer Compressor, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed June 8, 1922, Serial No. 566,767. Renewed Apr. 13, 1928. 3 Claims. (Cl. 230—27.)



1. In a compressor, the combination of an internally cored cylinder block, a cylinder sleeve having a plurality of ports communicating with the cored space within the block, and a groove in its inner wall spaced above said ports and forming an exhaust port, means for rigidly securing the sleeve within the block, a cylinder head having a portion extending into the sleeve, and a piston slidable in the sleeve and having a guide skirt adapted to enter the space between the head and the sleeve said skirt being provided with a plurality of ports positioned to register with said first mentioned ports when the piston is at the extremity of its travel in one direction and with said groove when the piston is at the end of its travel in the other direction.

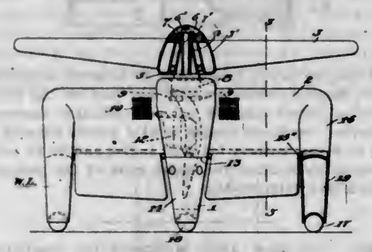


1,692,396. ROTARY VALVE. WILLIAM D. TIPTON, Towson, Md. Filed Dec. 11, 1926. Serial No. 154,219. 10 Claims. (Cl. 123—190.)



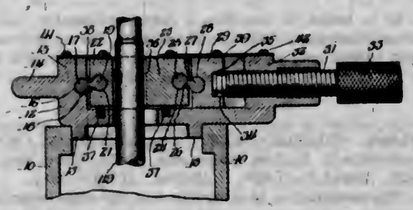
1. The combination with a cylindrical valve chamber of a cylindrical valve rotatable therein, said valve being formed of two similar halves, and means between said halves to force them into yielding contact with the wall of said chamber.

1,692,397. HELICOPTER. RUDOLF WAGNER, Hamburg, Germany. Filed Oct. 10, 1925, Serial No. 61,723, and in Germany June 10, 1922. 5 Claims. (Cl. 244—19.)



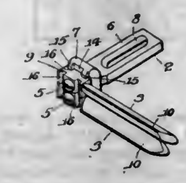
1. A helicopter comprising a main rotatable propeller and a stationary counter-propeller with curved blades mounted immediately below the main propeller for taking up and neutralizing the swirl of the fluid stream from the main propeller.

1,692,398. VISE. GAILARD E. WEAVER and WILLIAM C. KEIM, Springfield, Ill., assignors to Weaver Manufacturing Company, Springfield, Ill., a Corporation of Illinois. Filed Jan. 2, 1926. Serial No. 78,776. 8 Claims. (Cl. 81—33.)



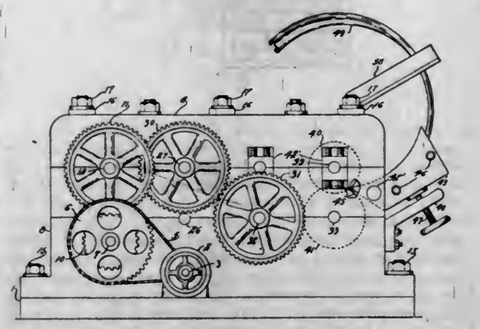
1. In a vise, the combination of a substantially C-shaped support open at one side, a jaw movable at substantially right-angles to the plane of the C to engage one side of the body to be clamped by the vise, a link connecting said jaw to said support, a second jaw movable at substantially right-angles to the plane of the C to engage the opposite side of said body, a block adjustable on said support toward and from said first jaw, and a link connecting said second jaw to said block, whereby movements of the jaws with the body cause their increased clamping action on the latter due to the rocking of said links, said jaws registering with the opening at the side of said support.

1,692,399. KNOT CATCHER AND YARN CLEANER. JACOB K. ALTEMUS, Philadelphia, Pa. Filed Sept. 22, 1926. Serial No. 136,916. 9 Claims. (Cl. 28—71.)



1. The combination of a supporting member, and two bars comprising base portions secured to the member, and parallel extensions forming a yarn passage between them, each bar being invertible, the member and the bars having opposing surfaces which engage each other and position the bars relatively to each other and prevent them from turning, and the opposing surfaces of the extensions diverging forwardly from the region of the entrance to the passage in each position of each bar.

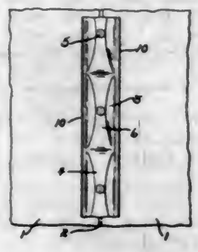
1,692,400. METAL-REFORMING METHOD AND APPARATUS. JAMES L. AUBLE, Toledo, Ohio, assignor, by direct and mesne assignments, of one-half to Nancy M. Auble and one-half to Jeannette M. Seybold, Toledo, Ohio. Filed Feb. 11, 1924, Serial No. 691,965. Renewed Oct. 1, 1928. 7 Claims. (Cl. 153—2.)



1. Re-forming strip metal stock embodying transversely re-shaping said stock by rolling in a plane, and in addition to said rolling and as a continuation therefrom increasing the degree of the transverse re-shaping by causing said rolling re-shaping to propel the stock therefrom through a stationary die out of said plane.

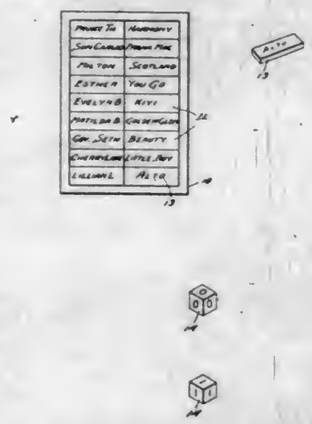
6. A metal re-working machine embodying a train of roll pairs including a terminal roll pair, therefrom a further re-shaping embracing adjustable width stationary die of arc form mounted to extend into proximity to the re-forming region of the terminal roll pair, and driving means for the roll pairs for progressing material from said terminal roll pair into and through said die, the axis of the die arc being transversely of the line of the roll pairs.

1,692,401. FASTENER FOR ROOFING SHEETS. DALE R. BARD, Bryan, Ohio. Filed Mar. 31, 1928. Serial No. 266,139. 1 Claim. (Cl. 108—33.)



A sheet metal fastener having a rectangular base, flat longitudinal and symmetrically curved nail-receiving portion, the curvature from opposite ends being such that a line tangent to the center thereof forms with a chord from such center to either end an angle of the order of 12°, said nail-receiving portion diverging uniformly in opposite directions from the central part thereof, and sides depending downwardly and outwardly from said nail-receiving portion, and upturned flanges on the side edges thereof.

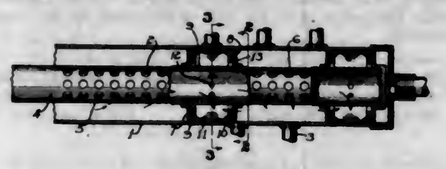
1,692,402. HORSE-RACE GAME. JOHN BARTHEL, Oak Park, Ill. Filed Apr. 20, 1928. Serial No. 271,546. 2 Claims. (Cl. 273—135.)



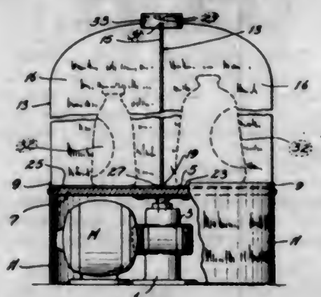
1. A game of the character described comprising a board, said board being divided into a number of spaces, a number of blocks corresponding to the number of said spaces upon said board, said blocks being adapted to be either positioned in said spaces upon said board or taken therefrom, and means whereby the player may be apprised whether to place the block upon the board or take one from the board.

1,692,403. FLUID-TIGHT PACKING. JOHN A. BROOKS, Detroit, Mich. Filed Nov. 28, 1927. Serial No. 236,079. 2 Claims. (Cl. 251—78.)

1. In a device of the class described, a tubular stem having a fluid inlet and outlet in spaced relation, a packing unit on each side of said outlet, each unit comprising longitudinally spaced retainer members and a flexible annulus with the ends thereof engaged by said retainer members, said stem having means to supply fluid to the inside of the annuli for exerting an expanding force thereagainst.



1,692,404. DISPLAY DEVICE. LEE R. CONWELL, Elmhurst, N. Y., assignor to Conwell Graphic Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 17, 1926. Serial No. 109,558. 7 Claims. (Cl. 40—33.)



1. A display device comprising a platform, a holding lip thereon, display elements adapted to rest on the platform comprising panels adapted to form dihedral angles with one another, segments hinged to said panels adapted to be folded to act as spacers for said angles and to fit said lip, and means for holding the upper ends of the panels in a predetermined relationship.

1,692,405. TICKET AND METHOD OF PRODUCING THE SAME. CHARLES A. FREEMAN, Chicago, Ill., assignor to The Simplex Ticket Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 19, 1924. Serial No. 700,360. 6 Claims. (Cl. 283—8.)

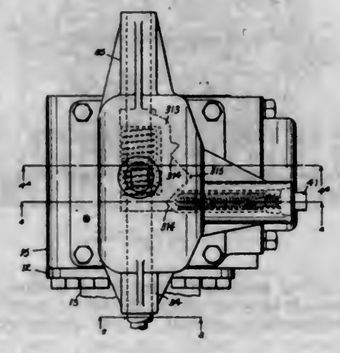


1. In a ticket or the like, a warning imprint and a warning-obscuring imprint, said imprints having different actinic values, and co-operating to form a completed design not disclosed by either of said imprints alone.

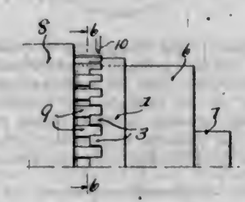
1,692,406. CHANGE-SPEED TRANSMISSION GEAR. LAWRENCE C. FULLER, Kalamazoo, Mich. Filed Feb. 9, 1925. Serial No. 7,928. 5 Claims. (Cl. 74—39.)

1. The combination in a structure of the class described comprising a shiftable member having two operative positions and an intermediate neutral position, of a reciprocating control rod, a shifter yoke for said shiftable member provided with arms slidably mounted on said rod, said rod being provided with a collar between said arms, springs arranged on said rod between said collar and the arms of said yoke, said yoke being provided with a pointed cam projection and with notches at each side thereof, and a spring pressed detent coacting with one of said notches when said shiftable member is in one of its operative positions and with the other of said notches when in the other of its operative positions, said detent coacting with said cam to cause a complete actuation of said shifter yoke after the crown of the cam has passed the detent thereby preventing the stopping of said shiftable member in its neutral position.





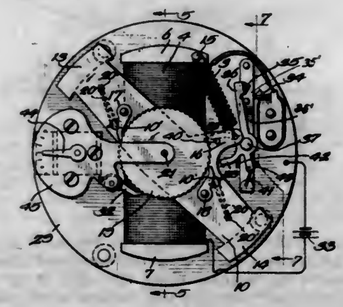
1,692,407. PROCESS OF FORMING AND WELDING END RINGS FOR ROTOR BARS. KLAUS L. HANSEN and WILLIAM J. OESTERLEIN, Milwaukee, Wis., assignors of one-third to Northwestern Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 26, 1925. Serial No. 65,008. 1 Claim. (Cl. 29—155.5.)



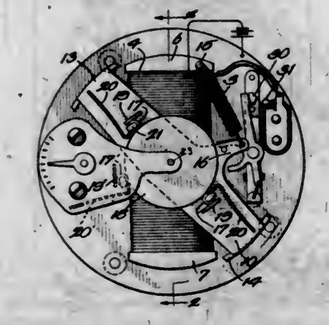
The method of making end rings for rotor bars comprising forming a strip with notches in its marginal edge, with solid portions between said notches, positioning the projecting rotor bars in said notches with the intermediate solid portions of the strip positioned between successive rotor bars, and arc welding the rotor bars to the intermediate portion whereby a localized application of intense heat is secured and whereby the main body and the intermediate portions of the strip retain their original characteristic.

1,692,408. ELECTRIC MOTOR. JOHN W. HOBBS, Moline, Ill., assignor to George W. Borg, Chicago, Ill. Filed Dec. 9, 1926. Serial No. 153,577. 5 Claims. (Cl. 172—126.)

1. An electric motor having a moving element and including a field magnet inclusive of a magnetizable core; a block of non-magnetizable material assembled with an intermediate portion of said core and formed with slots on opposite sides thereof and in communication with the winding spaces of the magnet that are spaced apart by said block, an energizing wire winding disposed about said core and passing through said slots and wound in a direction to induce magnetic flux through said core in a single direction; a shaft passing through said block and core; and motion transmitting means between the moving element of the motor and said shaft.



1,692,409. OSCILLATING MOTOR. JOHN W. HOBBS, Moline, Ill., assignor to George W. Borg, Chicago, Ill. Filed May 21, 1927. Serial No. 193,368. 8 Claims. (Cl. 172—126.)

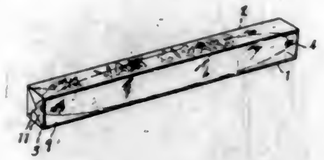


1. The combination with an electro-magnet having an oscillating armature turned in one direction by the magnet; of a spring operating upon the armature to reverse the direction of movement of the armature and connected with the armature and so disposed as to have its power increased when the armature is moved by the magnet; a switch in the magnet circuit, there being means whereby the magnet opens the switch and the spring, in functioning, also closes the switch; a wheel which is to be turned by the armature when the armature is moved by the spring; a clutch member carried by the armature and having a side opposed to the rim of the wheel and sloping toward the wheel in the direction of rotation of the armature that is effected by the magnet; a roller carried by the armature and engageable at the same time with said clutch member side and the rim of the wheel; and a spring urging the roller into engagement with said clutch member side and the rim of the wheel.

1,692,410. PACKAGE FOR CIGARS, CANDY, AND THE LIKE. HAROLD H. JONES, Kalamazoo, Mich., assignor to Kalamazoo Vegetable Parchment Company, Kalamazoo, Mich. Filed Mar. 7, 1927. Serial No. 173,564. 2 Claims. (Cl. 206—46.)

2. A package comprising an open sided frame member having a fingernail opening adjacent one end thereof pro-

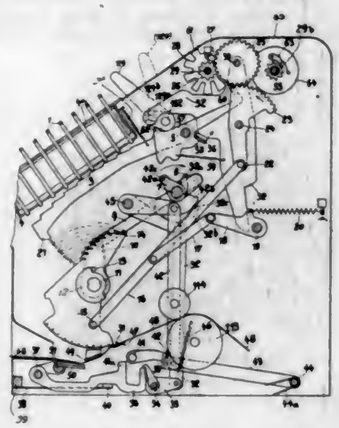
viding an engaging and a fracturing point, and an enclosing wrapper completely enclosing said frame and overlying said nail opening therein, said nail opening facilitating the fracturing of the wrapper over the opening and the



engagement of the frame through the fractured wrapper, and the fracturing thereof at a predetermined point and the tearing of the wrapper along the edges of the frame as it is pulled apart exposing the contents of the package.

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1,692,411. CHECK ISSUING AND ADDING MACHINE. ERNST KASSNER, Berlin, Germany. Filed May 26, 1923, Serial No. 641,650, and in Germany Mar. 11, 1921. 4 Claims. (Cl. 235—7.)

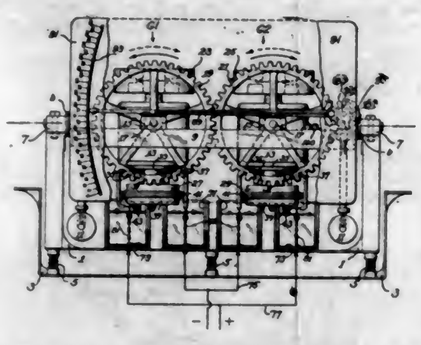


1. In a machine of the class described, the combination of a bank of keys arranged in a row, a setting up lever extending longitudinally of the row of keys and pivoted adjacent to one end of the row and provided adjacent the other end of the row with a catch, said setting up lever having a step-like formation presenting a series of faces arranged to be engaged by the keys for moving the setting up lever to different positions, and a pivoted member provided with a step-like formation presenting a series of faces arranged to be engaged by the catch on the setting up lever in the different positions thereof, whereby the amount of movement of the said member is controlled by and corresponds to the movement of the key actuated setting up lever.

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1,692,412. GYROSCOPIC SPEED INDICATOR. LLOYD R. KOENIG, St. Louis, Mo. Filed May 28, 1926. Serial No. 112,245. 7 Claims. (Cl. 33—204.)

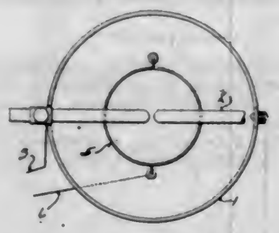
1. In a gyroscopic speed indicator, a frame rotatable about an axis of support, a gyroscope rotatably held for indicating purposes in said frame on its own axis of precession the latter axis being located at right angles to said frame axis and said gyroscope being adapted to precess its axis of spin about said axis of precession when said frame turns on its axis of support, said axis of spin being located at right angles to the axis of precession, the precessional angle being adapted to lie on both sides of a plane positioned perpendicular to the axis of support, the spin



axis in normal starting position being inclined to said plane which is perpendicular to the axis of support at an angle substantially one-half of the indicating range thereof.

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1,692,413. THERAPEUTIC LAMP. WILLIAM TURNOR LEWIS, Racine, Wis., assignor to Western Coil & Electrical Company, Racine, Wis. Filed May 21, 1927. Serial No. 193,244. 4 Claims. (Cl. 174—177.)



1. A therapeutic lamp comprising a reflector, an arc light mounted therein, a heater mounted within said reflector and connected to said arc light, and means for producing a blast of air through said reflector from the front to the rear, whereby particles falling from said arc light are projected from the rear of said reflector and are prevented from accumulating upon said reflector.

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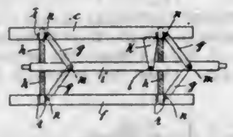
1,692,414. ELECTRIC-WIRE CONNECTER. WILLIAM P. MARR, Toronto, Ontario, Canada. Filed Oct. 13, 1926. Serial No. 141,382. 8 Claims. (Cl. 173—263.)



1. An electric wire connecter, comprising a tube of insulating material closed at one end, a tube permanently arranged within said insulating tube adapted to receive the ends of the wires to be connected a fastening member carried by said latter tube for securing the wire ends therein, an opening through the wall of said insulating tube to permit access to said fastening member, and an insulating member interposed between said tubes and adapted to be moved into a position to close the opening in the insulating tube.



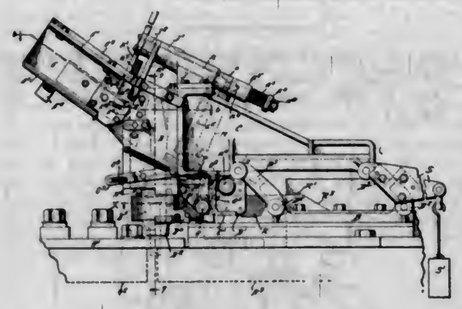
1,692,415. YARN REEL, MORE PARTICULARLY FOR THE WINDING OF FRESHLY-SPUN ARTIFICIAL SILK. KARL MEYER-GAUS, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Filed Oct. 1, 1926, Serial No. 138,962, and in Germany Oct. 3, 1925. 4 Claims. (Cl. 242—111.)



1. A reel comprising spiders, cross bars fixed to said spiders, cross bars mounted in said spiders and shiftable radially only therein, a shaft axially movable in said spiders, and toggle joints intermediate said shiftable cross bars and shaft.

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1,692,416. MECHANISM FOR FEEDING AND OPERATING UPON ARTICLES. CHARLES F. NEWPHER, Shaker Heights, Ohio, assignor to The Bourne-Fuller Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 18, 1927. Serial No. 206,502. 27 Claims. (Cl. 80—8.)



1. The combination, with a guide along which articles are moved, of mechanism for operating upon the articles delivered from the said guide, and means for delivering the articles successively to such operating mechanism, such delivering means comprising a pair of arms spaced apart in the direction of the length of the said guide, and means for projecting the said arms transversely alternately across the said guide and into and out of the path of movement of the articles therealong, whereby one of said arms serves to retain the series of articles therebeyond against movement when the other of said arms is withdrawn from the guide to permit the delivery of an article from said guide and whereby, on reverse movement of said arms, the second arm will be brought into the path of movement of said articles and the first arm will be withdrawn from such path of movement, and means movable by and with the first arm and adapted to be projected across the said guide to engage an article between the said arms thereby to facilitate the discharge of such article from the guide when the second arm is withdrawn therefrom.

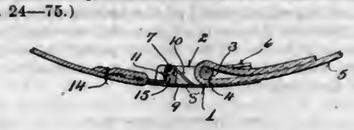
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1,692,417. MANUFACTURE OF CYANIDES OF THE PERYLENE SERIES. ALFRED PONGRATZ, Graz, Austria, assignor to Felice Bensa, Genoa, Italy. Filed June 18, 1926, Serial No. 116,943, and in Austria June 26, 1925. 3 Claims. (Cl. 260—108.)

1. A process for manufacturing cyanides of the perylene series consisting in mixing halogen compounds of perylene with metal cyanides and heating the mixture to 300° centigrade.



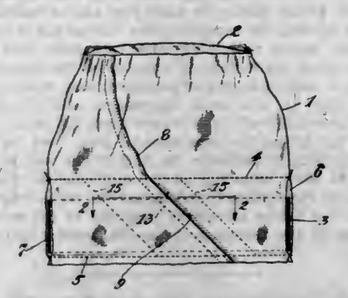
1,692,418. BELT BUCKLE. ADAM PRIMAK, Milwaukee, Wis. Filed Sept. 26, 1925. Serial No. 58,811. 1 Claim. (Cl. 24—75.)



The combination of a belt, a buckle having a body portion provided with outwardly turned marginal flanges, a transversely extending member carried between said flanges adjacent one end of the body portion and having a lip extending towards and spaced from the body portion, said member having a slanting extension projecting towards the center of the body portion and contacting therewith, the other end of said body portion having inwardly turned lugs and having a locking transversely extending member located between and spaced from said slanting extension and said last mentioned lugs, one end of said belt being wrapped about said transversely extending locking member and having its end positioned beneath said last mentioned inturned lugs, a second member secured to the other end of said belt and having a right angular lip adapted to interlock with said first mentioned lip.

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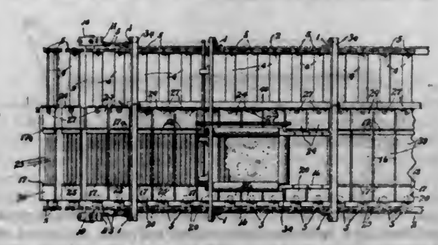
1,692,419. HAT LINING AND SIZE REDUCER. PHILIP ROSENBERG, Brooklyn, N. Y. Filed Feb. 13, 1928. Serial No. 253,829. 2 Claims. (Cl. 2—190.)



1. A lining for a hat comprising a body shaped to fit the interior of the hat, said body having a portion attached adjacent its lower edge to the body and extending circumferentially thereof, the upper edge of said portion also being secured to the body, the lining and said portion thus providing a continuous annular pocket closed at the top and bottom, said pocket having an opening and a flexible strip of filling material in the pocket and removable through said opening to adjust the size of the hat to the head of the wearer.

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1,692,420. GYPSUM-BLOCK MACHINE. GEORGE H. A. RUBY, East Grand Rapids, Mich. Filed Oct. 31, 1927. Serial No. 229,808. 9 Claims. (Cl. 25—99.)

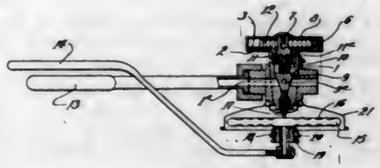


1. A consecutive series of block forms, each comprising a bottom plate, a vertical side plate pivotally connected

to the bottom plate, an end member permanently secured at one end of the bottom plate, a second end member located at the opposite end of the bottom plate and having an inturned flange, the upper side of which is flush with the upper side of the bottom plate, and means for mounting said second end member for movement toward or away from said bottom plate.

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1,692,421. VALVE FOR REGULATING GAS FLAMES. GEORGE SCHLUSSELBURG, Chicago, Ill., assignor to Francis Edward Hale, London, England. Filed June 8, 1926, Serial No. 114,431, and in Great Britain June 8, 1925. Renewed Aug. 17, 1928. 9 Claims. (Cl. 67—116.)



1. In a device of the class described in combination with a burner and gas passage, a main plug for regulating the flow of gas through the gas passage, a supplemental plug provided with a cross bore and rotatably mounted and normally seated within the main plug and extending across the gas passage for regulating the flow of gas for lighting purposes, means associated with both main and supplemental plugs for imparting rotation to the supplmenetal plug by a limited degree of movement and rotation to the main plug by continued movement, and thermostatic means associated with the burner when the flame is maintained for lifting the supplemental plug from its seat in the main plug to maintain the flow of gas, and means operable to effect reseating of the supplemental plug when the gas is extinguished, and means for regulating the extent of the lifting movement imparted to the supplemental plug by the thermostatic means, substantially as described.

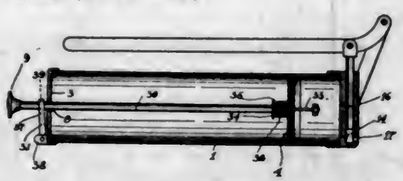
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1,692,422. METHOD OF TREATING SULPHUR. JAMES W. SCHWAB, Gulf, Tex., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Mar. 16, 1927. Serial No. 175,935. 7 Claims. (Cl. 23—229.)

1. The method of purifying sulphur contaminated with hydrocarbons, which comprises agitating the sulphur while molten in the presence of anhydrous aluminum chloride and separating the molten sulphur from the combined impurities.

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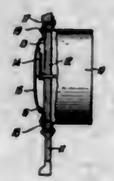
1,692,423. GREASE GUN. ALBERT T. SHERE, Oakland, Calif., assignor, by mesne assignments, to Gat Gun Lubricating Corporation, Oakland, Calif., a Corporation of California. Filed Apr. 25, 1922. Serial No. 556,393. 2 Claims. (Cl. 221—47.3.)



1. In combination, a cylinder adapted to contain grease and having a booster pump associated with the front end thereof, a rod extending slidably into the cylinder from the rear end thereof and having a piston slidable thereon, an abutment on said rod, a spring cushion bearing on the abutment and on the piston so as to urge the latter forwardly and a locking means for the rod associated with the rear end of the cylinder, the said locking means being arranged to allow the rod to be pushed forwardly but to resist rearward motion of the rod.

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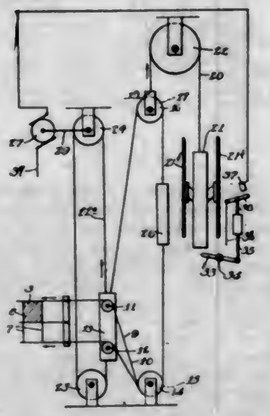
1,692,424. CLOCK CRYSTAL. LOUIS STERN, Woodmere, N. Y., assignor to The De Luxe Clock & Mfg. Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 13, 1927. Serial No. 239,657. 3 Claims. (Cl. 58—91.)



2. In combination a clock face having a dial, a crystal having a center portion, a peripheral wall and a marginal portion, said marginal portion being substantially parallel to and spaced from said center portion by said wall, and means for securing said marginal portion directly to said clock face outside of said dial.

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1,692,425. DEVICE FOR STOPPING HIGH-POWERED VEHICLES. JOSEPH B. STRAUSS, Chicago, Ill. Filed Nov. 9, 1925. Serial No. 67,805. 12 Claims. (Cl. 39—1.)



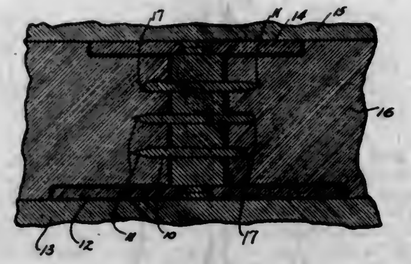
3. A device for stopping vehicles comprising separated posts, a barrier portion extending between said posts, flexible pay out members connected with said barrier portion, direction changing devices over which said pay out members pass, a spacer to which said direction changing devices are connected, direction changing devices connected with said posts over which the pay out members pass and located below the first-mentioned direction changing devices, direction changing devices above the spacer over which said pay out members pass, said pay out members passing downwardly from said latter direction changing devices and being connected with said spacer, resisting means with which said latter direction changing devices are connected and which resist the paying out of said flexible pay out members, and a raising and lowering mechanism for said spacer.

12. A device for stopping vehicles comprising a barrier portion extending across the space to be protected, means for raising and lowering said barrier portion, means for causing the pressure exerted on the barrier portion by a vehicle striking it, to be exerted in a downward direction and a stop for resisting said downward pressure.



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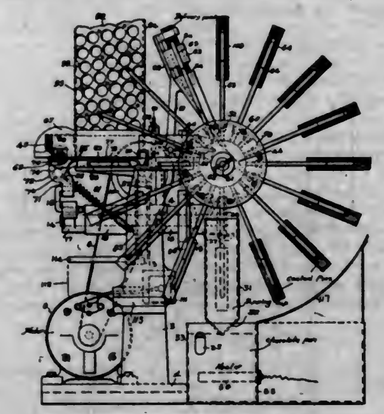
1,692,426. MOLDER'S CHAPLET. HUGH STUART, Granite City, Ill., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed June 25, 1927. Serial No. 201,336. 2 Claims. (Cl. 22—184.)



1. In a molder's chaplet, a core-supporting shank, core or mold engaging heads on said shank, and a radial fin on said shank between said heads, said shank comprising a continuous solid section of substantial thickness between said heads to firmly support the core throughout a casting operation, and said fin being of substantially larger diameter than said shank and the outer portion of said fin being much thinner than said shank or the inner portion of said fin so that said outer portion will be melted by the heat of the molten metal poured into the mold during the casting operation and unite with the casting metal to form a fluid-tight joint with the chaplet before any similar melting of said shank occurs and irrespective of shrinkage of the cast metal away from said shank upon cooling of the casting.

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1,692,427. ICE-CREAM CUTTING AND COATING MACHINE. WILLIAM E. URSCHEL, Valparaiso, Ind., assignor to Eskimo Pie Corporation, Louisville, Ky., a Corporation of Delaware. Filed July 12, 1924. Serial No. 725,734. 10 Claims. (Cl. 91—14.)



1. For sizing of material in block form, a machine comprising means for severing a section of the material from the block, a well for holding a sizing fluid, means for separating a portion of the sizing fluid from the main body thereof, and means cooperating with said separating means to effect the enveloping application of said separated portion of sizing fluid to the severed section of block material.

10. A machine for sizing material in block form which comprises a Ferris wheel having spokes and impaling needles secured near the outer extremity of said spokes, a knife for severing sections from said block, said knife designed to sever a section of block and force the severed sections onto a set of impaling needles in one continuous operation, a well for containing sizing liquid, a dipper for withdrawing a portion of the liquid and enveloping one of the impaled sections therewith, means for withdrawing the sized sections, and synchronizing means whereby the Ferris wheel is alternately rotated a distance equal to the distance between the sets of impaling needles and held against rotation intermediate successive movements, the severing and impaling, sizing and removing steps occurring simultaneously while said Ferris wheel is held against rotation.

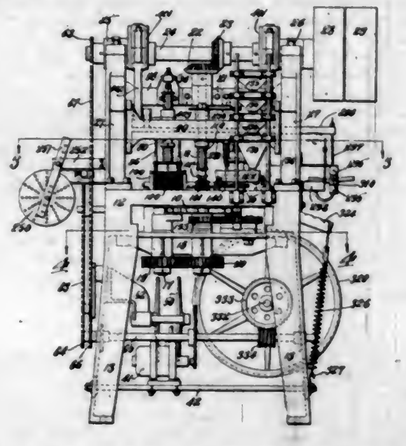
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1,692,428. LATCH FOR COVERS FOR TYPEWRITING MACHINES. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Nov. 4, 1921, Serial No. 512,741. Divided and this application filed Aug. 13, 1925. Serial No. 49,973. 3 Claims. (Cl. 292—87.)



1. The combination with a casing having a cover hinged thereto, of a flexible and shiftable arm pivoted to one side of said cover and provided with a projection thereon generally parallel to said pivot, there being corresponding apertures in the side of said cover and said casing registering with each other in closed position of the cover and normally retained in registration by said arm-projection passing therethrough, said arm being conditioned to be first withdrawn by flexure thereof to withdraw said projection from said apertures, and thereafter shiftable about said pivot to shift and thereby displace said projection from said apertures to an idle position.

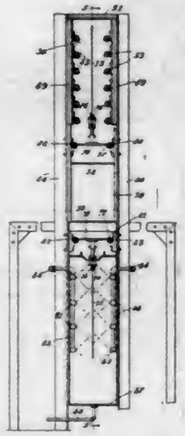
1,692,429. PACKAGING MACHINE. HANS H. WANDERS, Boston, Mass. Filed Feb. 14, 1922, Serial No. 536,523. Renewed Apr. 21, 1928. 13 Claims. (Cl. 93—5.)



1. In a packaging machine, means for cutting a disk of sheet material, means for crimping the edge of said disk to form a receptacle, means for filling said receptacle, means for folding said crimped edge down over the filling, and means for sealing the receptacle.

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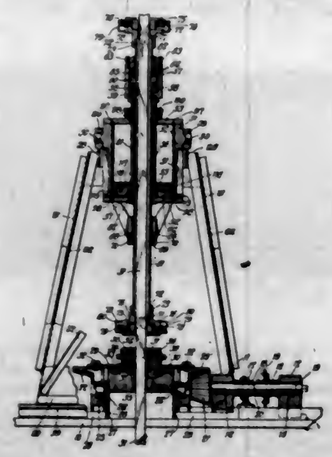
1,692,430. APPARATUS FOR DRYING AND SHAPING KNITTED ARTICLES. EDWARD J. ZIOCK, Rockford, Ill. Original application filed May 7, 1924, Serial No. 711,565. Divided and this application filed Sept. 20, 1924. Serial No. 738,755. 2 Claims. (Cl. 34—12.)



1. In apparatus of the character described, in combination, a drying compartment, a carrier for moving knitted articles lengthwise through said compartment, heating pipes at opposite sides of the knitted articles, a centrifugal fan the intake end of which is in communication with the compartment at the carrier entrance end thereof, an air conduit leading from the discharge end of said fan to the carrier outlet end of said compartment, and nozzles located on opposite sides of the knitted articles at the point at which they emerge from the outlet end of said compartment and arranged to discharge air from said conduit into the outlet end of said compartment past the stockings, whereby to produce an injector action for drawing fresh air into the compartment past the stockings emerging therefrom.

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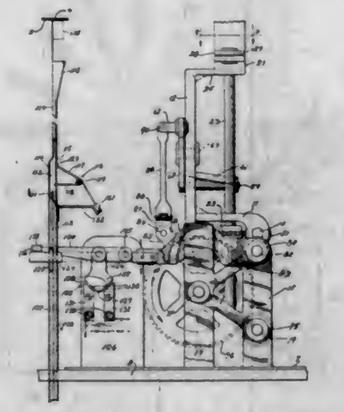
1,692,431. HYDRAULIC-FEED ROTARY DRILL. OLOF B. ANDERSON, Marquette, Mich., assignor to E. J. Longyear Manufacturing Company, a Corporation of Delaware. Filed June 7, 1924. Serial No. 718,568. 11 Claims. (Cl. 255—24.)



1. A device of the character described comprising a stem, a rotatable table for rotating said stem, said stem being slidable therethrough, and means for advancing said stem during rotation thereof comprising a cylinder, a piston in said cylinder, a member moving with said piston having means for gripping said stem and means for supplying fluid under pressure to said cylinder to move said piston therein said cylinder being swingably mounted so as to automatically align itself with said stem.

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1,692,432. CORN-POPPING MACHINE. DANIEL WEBSTER BAKER, Oakland, Calif., assignor, by direct and mesne assignments, of one-fourth to Dominick John Collins, one-fourth to George Bettandorff, Oakland, Calif., and one-fourth to Harry C. Schroeder, Concord, Calif. Filed May 19, 1927. Serial No. 192,518. 14 Claims. (Cl. 53—4.)

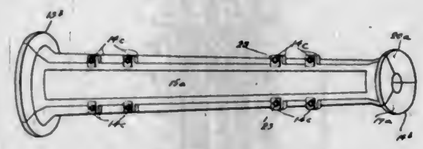


1. In a machine for popping corn or other grain, a receptacle, means in operative relation to said receptacle for automatically heating the grain therein until the grain pops; and means for automatically vibrating said receptacle so as to cause a uniform roasting of the grain.



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1,692,433. METHOD FOR MAKING HOLLOW MOLDS. HENRY BARKSCHAT, Los Angeles, Calif., assignor to Marbelite Corporation of America, Los Angeles, Calif., a Corporation of Delaware. Filed Mar. 29, 1926. Serial No. 98,177. 5 Claims. (Cl. 22—193.)



4. The method of making hollow, cast molds from a substantially cylindrical model, that includes detachably securing a pair of angularly spaced defining strips to the peripheral face of the model, said strips extending longitudinally in substantial parallelism with the axis of the model, applying plastic material to the peripheral face of the model between said strips at one side only of a given axial plane, allowing the plastic material to set at least partially, removing at least one of the strips, applying a separative film to the edge of the material where exposed by such removal, and applying a body of plastic substance to the peripheral face of the model, said body being extended angularly about the model to meet the film on said exposed edge.

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1,692,434. HINGE FOR JEWELRY. GASTON CANDAS, Paris, France. Filed Mar. 12, 1926, Serial No. 94,207, and in France Jan. 22, 1926. 1 Claim. (Cl. 59—80.)

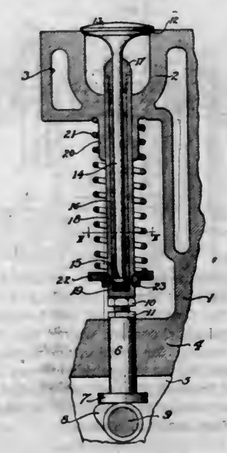


A sectional band of rigid material comprising a plurality of relatively movable substantially rectilineal abutting sections having oblique end faces, means for permitting the band to be opened into a rectilineal line or broken into a polygonal configuration, the said means comprising an apertured sector of a circle secured to one section and projecting from the end thereof an extent substantially equal to about one-half of its total length, the inner face of the portion of such section to which the sector is secured corresponding to a radius of the circle from which such sector is described and the said projecting portion of the sector having an oblique face corresponding to another radius of the same circle but projecting to an angle of the first mentioned radius, said sector being provided with a slot concentric to the circumference of such circle, and the other section having a plurality of concentric arcuate lugs, one of which is adapted to travel in the aforesaid concentric slot and the other of which is adapted to ride on the circumference of the circle of said sector and a stop member projecting from the periphery of said sector and adapted to abut the end of the latter lug when the aforesaid sections are opened so that their outer surfaces are in rectilineal alignment with each other.

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1,692,435. TAPPET-NOISE ELIMINATOR. AXEL CLEMENSEN, Chicago, Ill. Filed Jan. 22, 1927. Serial No. 162,709. 11 Claims. (Cl. 123—90.)

1. The combination with an internal combustion engine and a tappet mechanism thereof, of a valve, a valve stem formed thereon, a disk formed on the lower end of said valve stem, an inner sleeve surrounding the valve stem and resting on said disk, an outer sleeve surrounding said inner sleeve with the lower end of said outer sleeve closed and in contact with said tappet mechanism, a plurality of superimposed friction plate springs in the lower end of said outer sleeve below said valve stem disk, a stop ring recessed into the outer periphery of said outer sleeve,



a stop plate engaged on said outer sleeve above said stop ring, and a coiled spring engaged around said outer sleeve and seated against said stop plate.

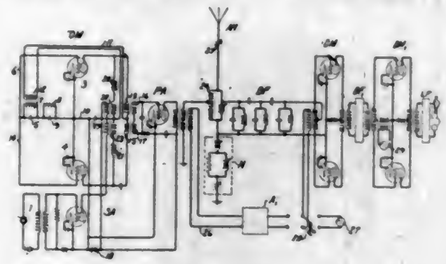
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1,692,436. TURF-CUTTING DEVICE. HARRY B. DEANE, Monroe, Mich. Filed Aug. 31, 1926. Serial No. 132,721. 3 Claims. (Cl. 97—226.)



1. In a turf cutting device, a cylindrical cutter, a spider having depending ends extending into the cylindrical cutter and to which the cutter is secured, a tube extending upwardly from the spider, a union threaded onto the upper end of the said tube and having an opening therethrough in alignment with the opening of the tube, a pair of arms threaded into opposite sides of the said union and extending at a right angle to the said tube, a rod reciprocably mounted in the tube and extending through the said union, a head on the upper end of the said rod the said rod also extending from the lower end of the pipe, a plunger secured to the lower end of the rod and fitting within the cylindrical cutter, downward movement of the said plunger being limited by said head striking the said union and upward movement of the plunger being limited by striking the depending ends of the spider.

1,692,437. SIGNALING SYSTEM. JOHN F. FARRINGTON, Flushing, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 11, 1924. Serial No. 698,358. 9 Claims. (Cl. 250—9.)



1. In a radio system comprising a station having an incoming wave receiving circuit including a broad band filter selective to the frequencies of the incoming wave, a source of high frequency carrier waves for transmitting outgoing signals, means for combining waves from said source with incoming waves whereby waves of an inaudible frequency different from that of either of said frequencies are produced, and means for deriving audible incoming signals from said last mentioned wave.

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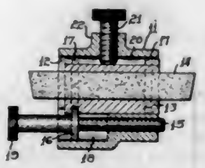
1,692,438. TAR-LAID BUILDING MATERIAL. SYLVESTER A. GATES, Detroit, Mich. Filed Apr. 10, 1926. Serial No. 101,049. 3 Claims. (Cl. 72—19.)



2. A building slab having tongues at certain edges and grooves at other edges thereof, said grooves containing a fusible material which is hard at ordinary temperatures.

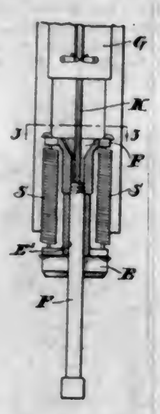
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1,692,439. GRINDING TOOL. ERNEST A. HALL, Toledo, Ohio, assignor to The Hall Manufacturing Co., Toledo, Ohio, a Corporation of Ohio. Filed Dec. 5, 1927. Serial No. 237,615. 8 Claims. (Cl. 51—204.)



1. In a machine of the character described, a tool holder having a longitudinal groove, a housing in which the holder is mounted, means for adjusting the tool longitudinally in the housing, means cooperating with said groove to guide the holder longitudinally but adjustable away from the groove to permit the holder to be rotated, said holder having means normally engageable with the holder adjusting means to fix the longitudinal position of the holder but releasable to permit free longitudinal movement of the holder after the latter has been partially rotated.

1,692,440. MUD GUARD FOR SUBMARINE DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 6, 1927. Serial No. 224,303. 3 Claims. (Cl. 255—51.)



1. A submarine drill unit, having a main frame provided with guides, a guide frame vertically movable on said guides, a drilling element, a tubular mud guard slidably supported at the lower end of said guide frame below the drilling element whereby the weight of the drilling element may rest upon the mud guard to force it down to the rock to be drilled, and an elastic connection between the guide frame and the mud guard constantly tending to force the mud guard downwardly.

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1,692,441. BOBBIN SUPPORT. LOUIS B. HASBROUCK, Elmira, N. Y., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y., a Corporation of New York. Continuation of and substitute for applications Serial No. 140,430, filed Oct. 9, 1926, and Serial No. 149,050, filed Nov. 18, 1926. This application filed May 26, 1928. Serial No. 280,675. 16 Claims. (Cl. 242—130.)



1. The combination with the creel of a spinning frame and the like and a roving bobbin, of means for supporting the bobbin on the creel providing a bearing which is located well above the center of gravity of the bobbin, and with respect to which the bobbin rotates and about which it is free to tip.



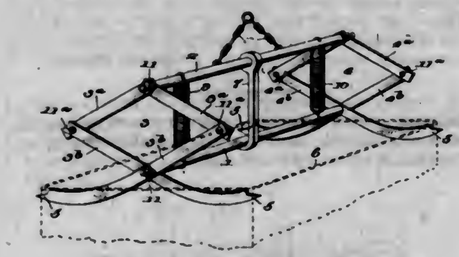
1,692,442. HIGH-PRESSURE STEAM BOILER. CHARLES GILBERT HAWLEY, Chicago, Ill. Filed Mar. 15, 1924. Serial No. 699,592. 2 Claims. (Cl. 122—332.)



1. A steam boiler of tubular construction throughout and hence adapted to sustain high pressures, and, bodily suspended above a suitable furnace chamber; said boiler being characterized by a horizontally positioned group of water drums which frame the top of said chamber, in combination with horizontally spaced return tubes rising from all said drums and framing a fire chamber which extends above said furnace chamber, brick walls supported by said drums and tubes and extending to the tops of the latter, a horizontally positioned group of parallel steam-and-water drums elevated above the first group and wherewith the upper ends of respective return tubes communicate, said elevated group supporting the lower drums, tubes and brick.

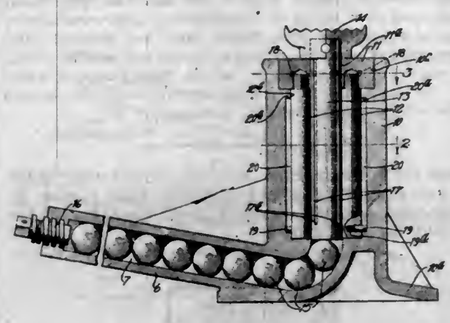
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1,692,443. BAG HOLDER. WILLIAM BRADFORD HEBBARD, Trumansburg, N. Y. Filed July 23, 1926. Serial No. 124,433. 9 Claims. (Cl. 83—26.)



1. A loading support for receptacles comprising symmetrically arranged pairs of parallel projecting members adapted to engage and hold a receptacle, a pair of parallel connecting rods symmetrically connected at their ends to said projecting members and adapted to have relative movement with respect to each other to advance and retract said projecting members thereby, and means to hold the parts normally in operative position to engage and hold a receptacle.

1,692,444. JACK. MARCUS A. HIRSCHL, Chicago, Ill., assignor to National-Standard Company, Niles, Mich., a Corporation of Michigan. Filed Aug. 5, 1927. Serial No. 210,859. 17 Claims. (Cl. 254—98.)



1. A jack comprising, a standard having a bore; a lifting member telescoping in said bore; a ball retaining member telescoping into said standard and having ball retaining bars surrounding said bore; a collar on the ball retaining member surrounding the lifting member; a ball receiving extension having a bore communicating with the lower end of the bore in the standard; a row of balls lying in said ball receiving extension; means for forcing said balls from said extension into the bore in the standard and against the lower end of the lifting member; and means for limiting the upward movement of the lifting member through the collar on the ball retaining member.

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1,692,445. ELECTRIC FUSE. VERNON HOPE, Macclesfield, England. Filed Oct. 16, 1924, Serial No. 743,985, and in Great Britain Oct. 17, 1923. 6 Claims. (Cl. 200—135.)

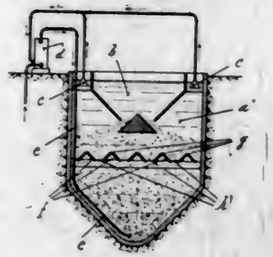


1. In an electric fuse in combination;—a tape composed of woven weft threads and warp threads of flexible insulating material; multiple fuse wires extending longitudinally from end to end of the tape and being

secured to the tape at frequent intervals in such manner that the flexible wires are supported by the tape clear of the edges of the tape and with sufficient slackness to ensure that when the ends of the tape are pulled apart the tension to resist such pull is taken by the insulating warp threads of the tape, without subjecting the multiple fuse wires to tension, some of the said fuse wires being composed of a metal of comparatively high conductivity and comparatively high fusing point and some of them composed of a metal of comparatively low melting point; a contact plate at each end of the flexible tape attached to the said tape and making contact with the several fuse wires; substantially as described.

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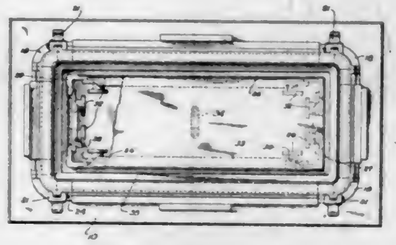
1,692,446. HEATABLE SLUDGE-DIGESTION CHAMBER FOR SEWAGE TREATMENT. KARL IMHOFF, Essen, Germany. Filed June 18, 1927. Serial No. 199,786. 2 Claims. (Cl. 210—2.)



1. The combination in a sludge digestion chamber, of means for heating the latter at its deepest point, and a partition between the top and bottom of the tank separating the heated lower part of the chamber from the upper part thereof, said partition comprising separator members placed side by side and spaced apart along their lateral edges, each of said members having openings therethrough.

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1,692,447. MOLD FOR VAULTS AND THE LIKE. JOHN L. JANISCH, Chicago, Ill. Filed June 16, 1927. Serial No. 199,278. 12 Claims. (Cl. 25—130.)

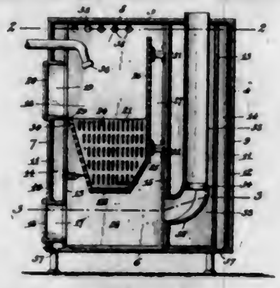


1. In a mold having removable corner, side and end walls, means detachably adjustable whereby said side and end walls may be both joined together and conveniently elevated and manipulated.

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1,692,448. GARBAGE AND REFUSE INCINERATOR. FREDERICK R. JONES, Chicago, Ill. Filed Dec. 8, 1925. Serial No. 74,153. 11 Claims. (Cl. 110—8.)

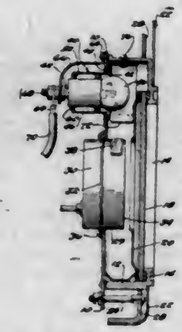
1. A garbage and refuse incinerator having an incinerating chamber provided with a refuse receptacle having open-work walls to contain and support a quantity of garbage or refuse, a gas burner situated above said supporting means and directing its flame downwardly onto the garbage or refuse, and an outlet for the products of combus-



tion beneath the lowest point of said refuse receptacle to cause suction downwardly through all parts of said receptacle.

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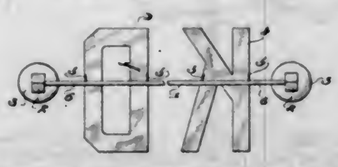
1,692,449. LAMP MOUNTING FOR INSTRUMENT PANELS. DON E. KEENEY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 27, 1928. Serial No. 257,257. 7 Claims. (Cl. 240—8.16.)



5. In an instrument assembly: a panel having openings therein; an instrument in one of the openings in said panel; a forwardly removable sleeve in another of said openings; a rearwardly removable light bulb supported by said sleeve and having a central end contact; and resilient means, pivoted to said panel and yieldably engaging end contact and thereby normally serving not only to conduct a current to said bulb but to retain said bulb against movement in either mentioned direction.

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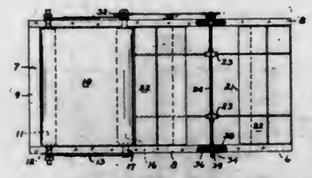
1,692,450. WINDOW-SIGN HOLDER. CLARENCE M. KIMBALL, Atlanta, Ga. Filed Mar. 28, 1925. Serial No. 18,982. 1 Claim. (Cl. 40—142.)



In a supporting member for window signs or notices, vacuum cups attached to the window, rearwardly extending lug portions from the cups having openings therein, a supporting bar mounted in the openings in the lug portions, a section of the supporting bar being bent inwardly in order to support the sign in close contact with the window.



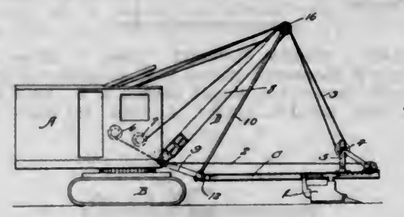
1,692,451. FISH SCREEN. GEORGE C. KENNEY, Bishop, Calif. Filed June 9, 1927. Serial No. 197,562. 4 Claims. (Cl. 210—175.)



1. In a device of the character described, the combination of a flume, a fish screen of the endless belt type mounted in said flume, a water wheel supported on a rotatable shaft and disposed in the channel of said flume, bearing blocks for said shaft supported by said flume and displaceable upwardly from their normal position, and means operatively connecting said shaft to said screen.

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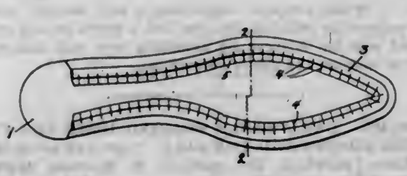
1,692,452. SKIMMER-SCOOP CRANE. JOSEPH E. KIRKHAM, Topeka, Kans., assignor to Koehring Company, Milwaukee, Wis., a Corporation. Filed Oct. 3, 1924, Serial No. 741,345, and in Canada June 9, 1925. 27 Claims. (Cl. 214—102.)



1. In a skimmer scoop crane, in combination, a traction support and a rotative car body thereon, a skimmer boom and skimmer bucket to operate on said boom, and means connecting the skimmer boom to the car body including an auxiliary boom supporting unit pivoted to said body and having an off-standing arm, and means pivotally connecting the said arm at its outer end with the skimmer boom, the skimmer boom being free at all times to swing on said pivotal connection toward and independently of the auxiliary supporting unit.

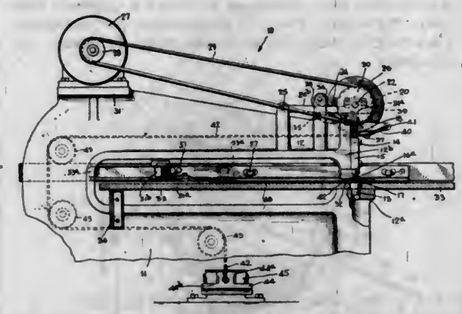
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1,692,453. INSEAM SEWING MACHINE. EUCLID I. LA CHAPELLE, Brockton, Mass., assignor to C. C. Blake, Incorporated, Boston, Mass., a Corporation of New York. Filed July 6, 1923. Serial No. 649,853. 8 Claims. (Cl. 112—35.)



1. An awl for inseam shoe sewing machines having a point to engage the base of the channel of the sole, and a knife constructed and arranged with relation to the point to cut a lateral slit in the channel flap.

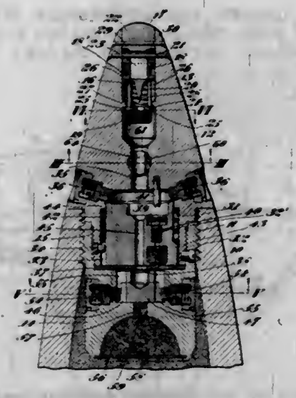
1,692,454. APPARATUS FOR PERFORATING INSCRIPTIONS, ORNAMENTATIONS, OR THE LIKE ON SHEET MATERIAL. JOSEPH LEVY, Brooklyn, N. Y. Filed Mar. 22, 1926. Serial No. 96,544. 10 Claims. (Cl. 164—47.)



1. An apparatus of the character described comprising a punch head having a lower and upper jaw, a die mounted on the lower jaw, a punch normally supported for sliding movement on the upper jaw in cooperative relation to said die, eccentric means for reciprocating said punch, said means being pivotally mounted on the punch head, and means for swinging said eccentric means to raise the punch into a non-cooperative position relative to the die while reciprocating the punch to and from the die for permitting the free movement of sheet material between the punch and the die.

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1,692,455. DETONATING FUSE. WILLIAM L. LUKENS and NEVIL GREENWELL, Bethlehem, Pa., assignors to Bethlehem Steel Company. Filed Oct. 20, 1925. Serial No. 63,594. 6 Claims. (Cl. 102—39.)

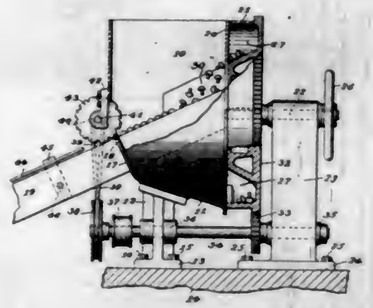


1. In a fuse, the combination of a fuse body, a detonating element, a firing mechanism mounted in the fuse body, a duct formed in said body to transmit the flame from said firing mechanism to the detonating element, a valve member rotatably mounted in said body and having an aperture therein whereby said duct is open in one position of said

member and closed in another position of said member, and a passageway formed in said valve member for venting the flame from said firing mechanism to the atmosphere when the duct is closed.

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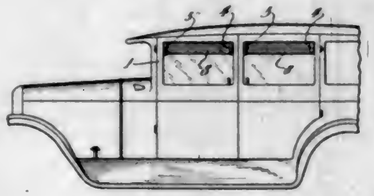
1,692,456. MACHINE FOR FEEDING HEADED BLANKS. JOHN M. LYNCH, Oakville, and WILLIAM S. GILMOUR, Waterbury, Conn., assignors to Blake & Johnson Company, Waterbury, Conn., a Corporation of Connecticut. Filed Sept. 6, 1923. Serial No. 661,210. 4 Claims. (Cl. 10—165.)



1. In a machine for feeding headed blanks, a hopper open at the rear side thereof, adapted to contain a quantity of blanks, an inclined chute extending through said hopper, a vertical blank feeding wheel at right angles to the plane of said chute closing the rear side of said hopper, said blank feeding wheel having a plurality of recesses having openings on the side only for automatically picking up blanks from said hopper and delivering them out of the plane of said wheel to said chute as said wheel is rotated, said blank feeding wheel being mounted on a shaft at the rear of said hopper, and a hand wheel on the end of said shaft for manually operating said feeding wheel.

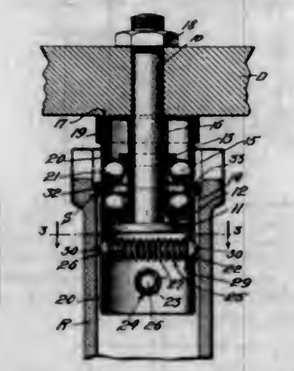
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1,692,457. CANOPY FOR AUTOMOBILE WINDOWS. HARRY M. MAGID, Chicago, Ill. Filed May 7, 1927. Serial No. 189,487. 14 Claims. (Cl. 296—44.)



1. A device of the character described comprising a holder adapted to extend across and be frictionally held in a window frame, said holder having grooves adapted to lie at opposite sides of the window opening and facing each other in a plane forming an angle with the plane of the window, said grooves being open at the ends that are the inner ends when the device is on a window, and a stiff canopy sheet of a length sufficient to extend between said grooves, said sheet being adapted to be slipped into the grooves through their open ends.

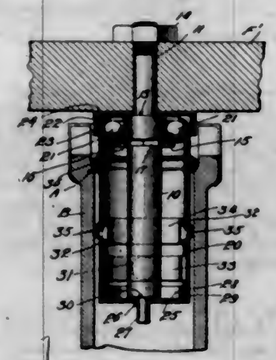
1,692,458. BOBBIN SUPPORT. JOHN V. MANN and LOUIS B. HASBROUCK, Elmira, N. Y., assignors to Eclipse Textile Devices Inc., Elmira Heights, N. Y. Filed Aug. 12, 1926. Serial No. 128,778. 19 Claims. (Cl. 242—130.)



15. A bobbin support comprising a depending rotary holder mounted on a bearing located above the center of gravity of the bobbin and resiliently engaging the bobbin to permit a tipping of its axis with respect to the axis of the bearing.

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1,692,459. BOBBIN SUPPORT. JOHN V. MANN and LOUIS B. HASBROUCK, Elmira, N. Y., assignors to Eclipse Textile Devices, Inc., Elmira Heights, N. Y. Filed Aug. 14, 1926. Serial No. 129,117. 4 Claims. (Cl. 242—130.)

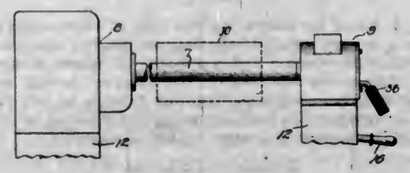


1. A bobbin support, comprising a ball bearing, means for supporting said ball bearing, and a sleeve having at its upper edge an incurved lip extending over said ball bearing to suspend the sleeve therefrom.

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1,692,460. DETACHABLE BEARING HEAD FOR CUTTER SHAFTS AND THE LIKE. CARL LAWRENCE MATTISON, Rockford, Ill., assignor to Mattison Machine Works, Rockford, Ill., a Corporation of Illinois. Filed Mar. 27, 1924. Serial No. 702,194. 5 Claims. (Cl. 308—58.)

1. In a machine of the character described, the combination of a frame, a cutter shaft, a stationary bearing head for one end of the shaft adapted to support the shaft permanently on said frame for rotational and against longitudinal movement, a cutter carried on said shaft adapted to be slid off the other end thereof for removal from the machine, a bearing head for the said other end of the shaft slidable on said frame longitudinally of the shaft for disengagement from the shaft and removable from the machine to permit removal of the cutter, said head having a bearing sleeve rotatably mounted therein arranged to receive the said other end of the shaft, and means for effecting a connection between the shaft and said sleeve adapted to center the shaft in the sleeve.



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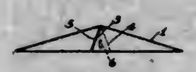
1,692,461. UMBRELLA. FRANCIS B. MCKINNEY, Pittsburgh, Pa., assignor to The Parella Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1928. Serial No. 267,961. 3 Claims. (Cl. 135—20.)



1. An emergency umbrella consisting of a sheet of self form-sustaining material provided with adjacently-disposed straight lines of weakness extending from the edge to a point materially within the sheet, the portion of the sheet between said lines of weakness being turned inwardly to form a gripping member which when engaged maintains the sheet in conical form.

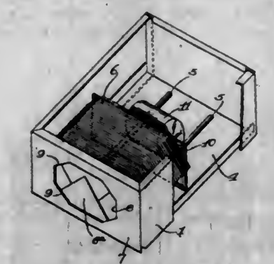
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1,692,462. UMBRELLA. FRANCIS B. MCKINNEY, Pittsburgh, Pa., assignor to The Parella Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1928. Serial No. 267,962. 5 Claims. (Cl. 135—20.)



1. An emergency umbrella comprising a sheet of self form-sustaining material slit and overlapped to form a conical, umbrella-like structure having an underlying flap of substantial width, and connected together along the upper overlying edge to maintain said form and to leave said flap free for gripping engagement.

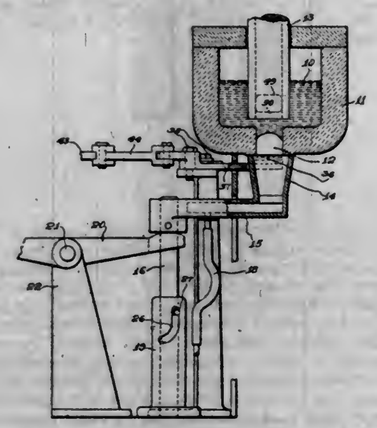
1,692,463. DISPENSER FOR PAPER NAPKINS AND THE LIKE. SAMUEL A. MERRIN, Chicago, Ill., assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1926. Serial No. 130,855. 4 Claims. (Cl. 312—61.)



1. A dispenser for folded paper napkins, towels and the like, comprising a receptacle having an inclined bottom arranged to support the napkins on edge, a substantially vertical wall toward which said bottom inclines downwardly, said wall having a delivery window smaller than the folded form of the napkin, and a follower for the napkins movable by gravity along the inclined bottom to exert substantially uniform pressure against the napkins toward the window, said follower comprising a substantially flat plate directly engaging a quantity of napkins at the opposite side of the latter from the delivery window, and a weight resting on the inclined bottom against said plate but unconnected therewith or with the receptacle and movable by gravity toward the window as the napkins are withdrawn.

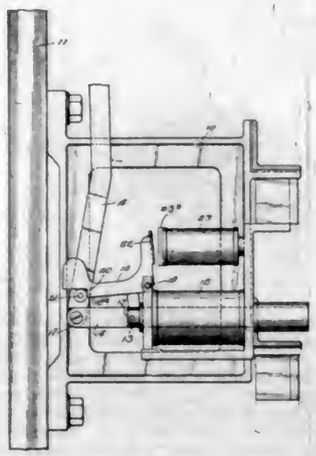
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1,692,464. METHOD AND APPARATUS FOR FEEDING GLASS. KARL E. PEILER, Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Mar. 22, 1923. Serial No. 626,986. 11 Claims. (Cl. 49—55.)



4. In a glass feeder, the combination with a glass container having a submerged orifice, of a tubular throttling element having its lower open end adjacent to the upper end of the orifice, the internal diameter of the element decreasing upwardly, and means for creating a periodically fluctuating gas pressure below the orifice.

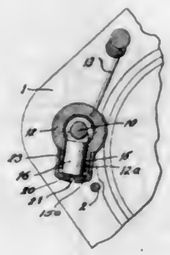
1,692,465. DAMPER CONTROL. OSCAR PETERSEN, Chicago, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 17, 1924. Serial No. 707,113. 3 Claims. (Cl. 84—218.)



3. In means of the character set forth, a damper-actuating lever provided with a latching-shoulder, an electromagnet having a core linked to said lever and serving to secure it to the damping position, a pivoted latching-pawl operative to engage said shoulder and releasably hold said first-named lever in damping position, and a second electro-magnet adapted to retract said latching-lever.

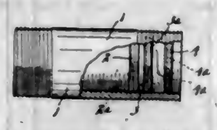
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1,692,466. LEVEL-WIND MECHANISM FOR FISHING REELS. CHARLES T. PFLUEGER and WALTER L. ADAMS, Akron, Ohio, assignors to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 30, 1926. Serial No. 105,711. 7 Claims. (Cl. 242—84.4.)



1. Level wind mechanism for fishing reels, comprising a reversely threaded shaft, a line guiding carriage mounted upon said shaft and adapted for movement back and forth therealong, said carriage being provided with an opening, a pawl removably positioned within said opening and adapted for engagement with said shaft, and means threaded to the external surface of said carriage for confining said pawl within said opening in engagement with said shaft.

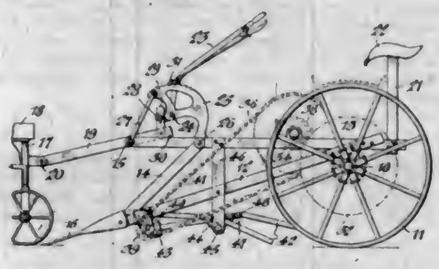
1,692,467. FUEL-GAS REGULATOR. JAMES QUINLAN, Minneapolis, Minn. Filed June 18, 1926. Serial No. 116,890. 5 Claims. (Cl. 137—112.)



1. A device for controlling the flow of combustible gas from a storage supply to the burners therefor comprising a conduit for the gas and a plurality of spaced members extending across said conduit, said members having holes therethrough arranged in staggered relation in the adjacent members said holes in the respective members decreasing in size toward the supply end of the conduit.

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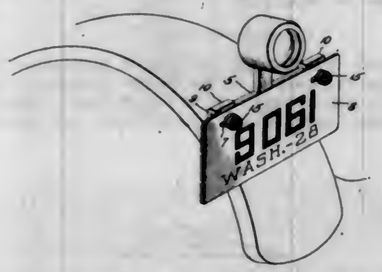
1,692,468. POTATO DIGGER. JOHN REUTHER, East Aurora, N. Y. Filed Feb. 26, 1927. Serial No. 171,290. 3 Claims. (Cl. 55—141.)



1. In a potato digger, the combination of a frame, a plow, a crank shaft mounted on said frame in rear of the plow, a supporting rod arranged parallel to and rearwardly of said crank shaft, upwardly-facing rock arms mounted on said rod and free to swing vertically thereon and a plurality of separator bars arranged side by side lengthwise of the frame and connected at their front ends to said crank shaft and at a point intermediate their ends to the free upper ends of the respective rock arms.

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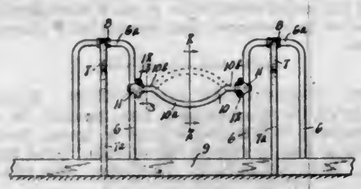
1,692,469. LICENSE-PLATE HOLDER. WALTER H. REX, Tallahassee, Fla., assignor to Crorex Holding Company, a Corporation of Florida. Filed Mar. 28, 1928. Serial No. 265,448. 3 Claims. (Cl. 40—125.)




1. The combination with an automobile license holder and a license plate adapted to be supported thereon, of a bolt having its head disposed in anchored engagement with said support, the stem of said bolt extending through said license plate, a nut threaded on said bolt for clamping said plate against said support, a rotary cutter movable longitudinally over said bolt for penetrating engagement in said license plate upon advancing movement of said nut, and means on said nut for rotating said cutter upon retractive movement of said nut.



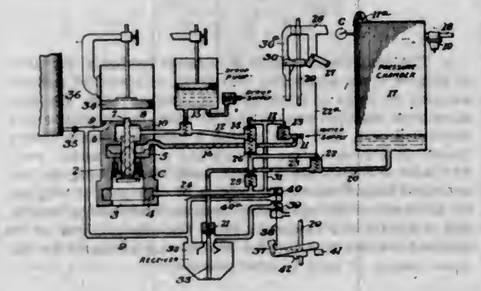
1,692,470. CATTLE-STALL BAR. LUDWIG E. SEDERBERG, St. Paul, Minn. Filed Aug. 19, 1926. Serial No. 130,224. 6 Claims. (Cl. 119—27.)



1. A stanchion having in combination, spaced front posts, a member extending therebetween and having a yoke-like portion between its ends, said member being revolubly mounted whereby said yoke-like portion may be disposed in various vertical positions.

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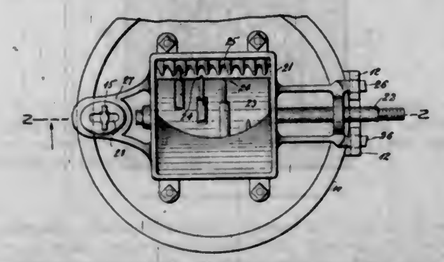
1,692,471. METHOD AND APPARATUS FOR BOTTLING. PATRICK W. SHIELDS and WALTER J. BLENKO, Pittsburgh, Pa., assignors to McKenna Brass and Manufacturing Company, Incorporated, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 5, 1923. Serial No. 678,588. 20 Claims. (Cl. 226—77.)



2. The method of bottling carbonated liquids which includes placing a bottle in operative relation to a source of carbonated liquid, sealing the bottle through the medium of a liquid under pressure, raising the pressure inside the bottle to above atmosphere, and thereafter directing carbonated liquid into the bottle, the sealing pressure and the pressure within the bottle being maintained substantially equal.

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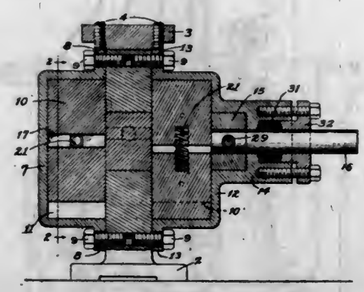
1,692,472. ICE CRUSHER. CHARLES M. SMITH, East Pepperell, Mass. Filed Mar. 25, 1926. Serial No. 97,239. 1 Claim. (Cl. 83—63.)



The combination with a tub, of ears secured to said tub, an ice crusher, prongs extending laterally from said ice crusher and arranged to take into said ears, respectively, an arm extending laterally from said crusher and provided with a slot, a bolt rotatably attached to said tub, a locking button on the upper end of said bolt, said button projecting through the slot in said arm, and a shaft for actuating said ice crusher.

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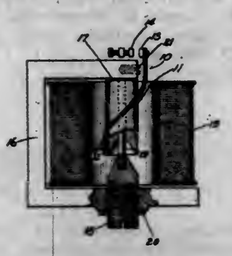
1,692,473. AIR COMPRESSOR. WILLIAM J. SMITH, Philadelphia, Pa., assignor to Vincent S. Clymer, Souderton, Pa. Filed Jan. 4, 1928. Serial No. 244,766. 5 Claims. (Cl. 230—152.)



1. In an air compressor, a standard having a bearing therein, chambers formed on opposite sides of the standard, a disk head having an integral shaft extending therefrom arranged in one of the chambers, and having its shaft located in the bearing, a corresponding disk head and shaft arranged in the opposite chamber, and means for connecting the second disk head to the shaft of the first disk head.

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1,692,474. ELECTROTHERMAL DEVICE. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 11, 1925. Serial No. 14,829. 17 Claims. (Cl. 200—122.)



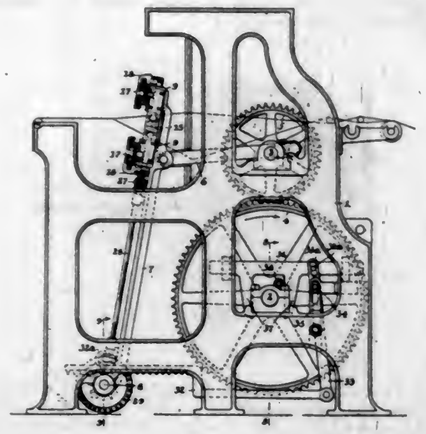
9. A thermal electric circuit controlling device comprising current conducting thermal responsive means, switch mechanism arranged to be controlled by said means responsive to variations in the temperature thereof, means for inducing a flow of current for heating said thermal responsive means comprising an energizing winding and a magnetic structure therefor having a magnetic member adjustable along the axis of said winding for varying the value of the current induced for heating said thermal responsive means upon variation in the energizing current of said winding.

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1,692,475. LOOM-SHUTTLE MOTION. ARTHUR J. VERVAET, North Haledon, N. J. Filed June 4, 1927. Serial No. 196,499. 6 Claims. (Cl. 139—133.)

1. In combination, means affording a shuttle race, shuttle driving means extending lengthwise of and spaced from the race and including longitudinally arranged

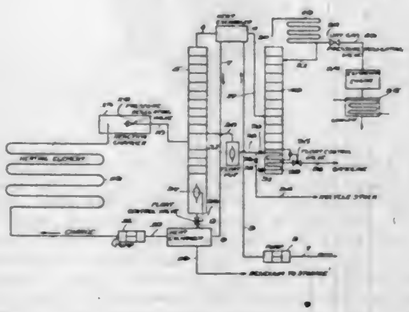
shuttle-driving portions individually movable toward the race, and having their ranges of movement wholly at one side of the same, means to hold the warp stretched in a plane extending between the first two means, a shuttle



movable along the race and having an end-surface against which said portions are active cam-fashion, and means to successively urge said portions against said end-surface to advance the shuttle along the race.

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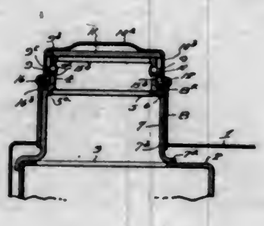
1,692,476. METHOD AND APPARATUS FOR CRACKING AND RECTIFYING PETROLEUM OILS AND THE LIKE. JAMES M. WADSWORTH, Sand Springs, Okla. Filed Mar. 12, 1926. Serial No. 94,288. 6 Claims. (Cl. 196—94.)



1. In a method of treating petroleum oils, cracking the oil under heat and pressure to produce a mixture of gasoline hydrocarbons, hydrocarbons lighter and heavier than gasoline hydrocarbons, and residuum, rectifying said mixture to sharply separate the gasoline hydrocarbons and lighter hydrocarbons from heavier hydrocarbons and residuum, subsequently rectifying said gasoline hydrocarbons and lighter hydrocarbons, and separately withdrawing from the second rectification step, rectified liquid gasoline and uncondensed gases, and utilizing during the rectification steps, the pressure resulting from the cracking step to effect the second rectification at super-atmospheric pressure and at temperatures from substantially atmospheric upwardly.

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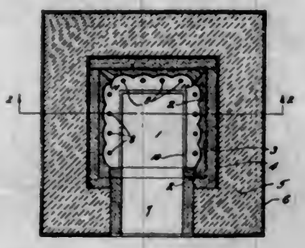
1,692,477. DETACHABLE CONNECTION. EUGENE C. WAMELINK, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 25, 1923. Serial No. 641,312. 14 Claims. (Cl. 220—40.)



1. The combination, with a member having a plurality of pins or studs projecting therefrom, of a second member adapted to form a telescoping connection with the first mentioned member and having at such telescoping end a channeled seat, said seat having a pair of tongues struck therefrom corresponding to each pin or stud, and a resilient wire for each pin or stud, each wire having an end anchored behind one of the tongues of each pair of tongues, an inclined portion extending from such anchoring tongue, and a second end extending from the opposite end of its inclined portion and located behind and anchored by the other tongue of such pair of tongues.

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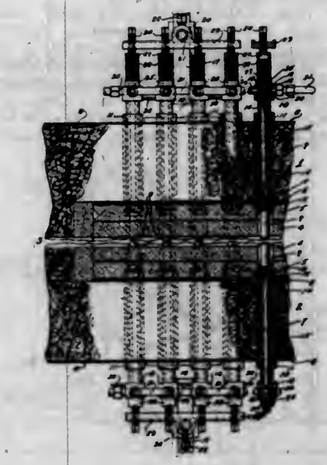
1,692,478. ELECTRIC FURNACE. JACOB WEINTZ, Cleveland, Ohio, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 26, 1927. Serial No. 163,704. 3 Claims. (Cl. 266—1.5.)



1. In a furnace having a wall, a refractory lining therefor having parallel depressions of curved section the side portions of which meet at an angle to form ridges, and parallel heating elements spaced forwardly of the plane of said ridges and one before each of said depressions.



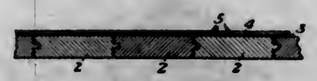
1,692,479. ELECTRIC FURNACE. JACOB WEINTZ, Cleveland, Ohio, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 3, 1927. Serial No. 223,800. 4 Claims. (Cl. 266—1.5.)



3. In an electric furnace, a bank of heating elements arranged in parallel relation, each extending between a pair of contactors, separate backing means for each set of contactors and secured upon opposite walls of the furnace, and yielding connections between one of said backing means and its set of contactors.

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1,692,480. LAYING LINOLEUM OR THE LIKE. CALVIN N. WENRICH, Lancaster, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 15, 1927. Serial No. 161,421. 4 Claims. (Cl. 94—3.)

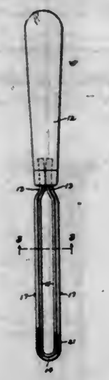


4. The combination of a wooden floor, a linoleum or similar hard surfaced floor covering, and a lining between the floor and said floor covering comprising felt reinforced by lines of stitching.

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1,692,481. SHOE CREASER. GEORGE H. WILKINS, Brockton, Mass, assignor to Geo. E. Keith Company, Campello, Mass., a Corporation of Massachusetts. Filed June 8, 1928. Serial No. 283,894. 2 Claims. (Cl. 12—96.)

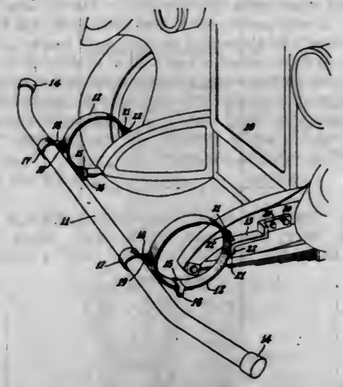
1. A shoe-creasing implement comprising an oblong loop of wire, secured at one end to a handle and including a longitudinal side member having flat longitudinal faces oppositely inclined, and a narrow fillet between said faces, the side faces and fillet collectively forming a longitudinal creasing ridge and being adapted to act conjointly in forming a relatively narrow crease, the bottom of which is



formed by the fillet, the implement being operable to cause the side faces to act alternately in widening the crease, without increasing the depth thereof.

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1,692,482. BUMPER. MIRZA J. WILSON, Kenmore, Ohio. Filed Aug. 26, 1927. Serial No. 215,654. 11 Claims. (Cl. 293—55.)



1. In a bumper, the combination of a buffer-bar, and a pair of yielding, generally circular members each formed with an integral loop encircling said buffer-bar for supporting the same.

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1,692,483. PENCIL AND ERASER THEREFOR. MAURICE ALLAND, Atlantic City, N. J. Filed Nov. 14, 1925. Serial No. 68,951. 1 Claim. (Cl. 120—38.)



An instrument of the class described comprising a hollow container body provided with exterior screw threads adjacent one end thereof, an eraser removably closing the body at said end, a ferrule surrounding said body and eraser, said ferrule having interior screw threads spaced from its ends and engaging the first mentioned screw threads so that the ferrule is adjustable longitudinally of

the body to compensate for wear of the eraser, said ferrule at one end having a portion longer than and covering the screw threaded portion of the body and spaced outwardly from the body, the other end portion of the body being interiorly smooth, the last mentioned portion and screw threads of the ferrule being spaced outwardly from the eraser.

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1,692,484. VENTILATING DOOR. LEWIS S. BARR, Chicago, Ill. Filed May 5, 1928. Serial No. 275,467. 3 Claims. (Cl. 98—6.)



1. In a car of the character described having a vertical ventilating shaft with an opening to the outside at the lower end thereof, means for closing said shaft near the lower end thereof and above said opening, said means including a door hingedly attached to one wall of said shaft by means of curved supporting strips extending through holes in said wall, said door being accessible for manual control through the opening at the lower end of the shaft and adapted to be moved from horizontal position closing the shaft to vertical position opening the same.

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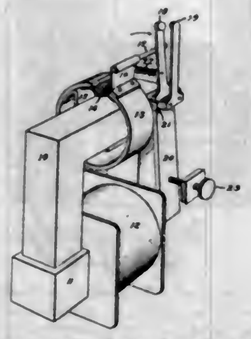
1,692,485. PACKER FOR WORKING BARRELS. PATRICK H. BRAY, Huntington Beach, Calif. Filed Nov. 1, 1926. Serial No. 145,579. 1 Claim. (Cl. 74—109.)



A deep well plunger pump unit including a cylindrical body member having a uniform diameter flow passage from end to end and each being threaded for attachment of coordinate members; the outer surface of the body being turned down and presenting an elongated packing recess between integral shoulders, the bottom of the recess including a straight cylindrical portion and shallow expanding conical faces at the ends of the cylindrical portion, and an elongated stack of packing rings seating on the bottom of the recess each end of the packing being expanded as it shifts in one direction on the conical faces as the load of liquid pressure is taken by the packing.

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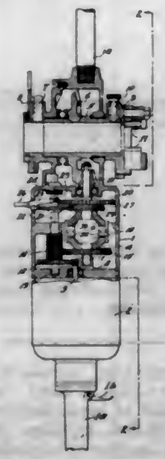
1,692,486. THERMAL AND ELECTRORESPONSIVE DEVICE. ALFRED COHN, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed May 2, 1927, Serial No. 188,249, and in Germany May 20, 1926. 9 Claims. (Cl. 175—356.)



1. An electroresponsive device for alternating currents comprising a transformer having a closed magnetic structure provided with polar extensions for the stray flux set up upon excessive energization of the primary circuit of the transformer, a thermal responsive element arranged to be heated by the current in the secondary circuit of the transformer to effect operation thereof, and a movable magnetic member mounted to be operated by the stray flux through said polar extensions.

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1,692,487. MOTOR-DRIVEN THREADING TOOL. EDWIN L. CONNELL, Cleveland, Ohio, assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 10, 1925. Serial No. 49,839. 5 Claims. (Cl. 10—89.)

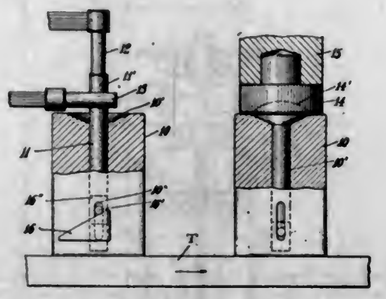


3. Thread cutting apparatus, comprising a tool rotating shaft carrying differential mechanism including two opposed gears, a driving shaft arranged in substantially parallel relation with said tool shaft, means whereby said driving shaft rotates one of said gears at fixed speed in one direction, and means whereby said driving shaft also rotates the opposed gear at two different speeds, one greater and the other less than that of the first named gear.

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1,692,488. ELECTRICAL HEATING AND FORMING METHOD. ARTHUR G. DANNELL, New York, N. Y., assignor to Elektromatik Forging Machine Corporation, New York, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,492. 20 Claims. (Cl. 219—3.)



1. The method of heating a metal article held in a die cavity, which comprises supporting said article in said die cavity so that the portion desired to be heated extends beyond said die cavity in advance of its forging position in said die cavity, and heating said portion to a forging temperature while held in said die in such advanced position.

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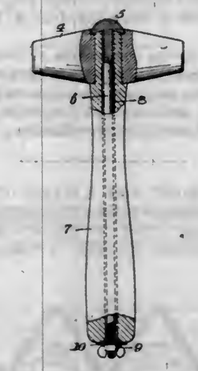
1,692,489. ODOMETER TRANSFER MECHANISM. CLARENCE B. DINSMORE, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Feb. 28, 1927. Serial No. 171,707. 2 Claims. (Cl. 235—139.)



1. In a registering instrument, number wheels having internal gears, an external star pinion between said number wheels in driving and driven relation thereto, a mounting for said star pinion including segmental plate means coaxial with and of the same radius as the number wheels having a radial extension, means to engage said extension and flexibly support said mounting.



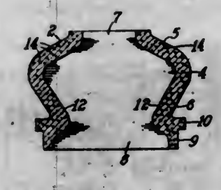
1,692,490. TOOL HANDLE. JOSEPH DRAGON, McKees Rocks, Pa. Filed Mar. 17, 1927. Serial No. 176,006. 1 Claim. (Cl. 306—38.)



The combination with a hammer head having an eye, of a handle for the head, comprising a metallic sleeve, a rod slidably fitting in the sleeve but having its ends protruding therefrom, and its outer end portion extending into said eye and having connection with said head, a grip member snugly fitting the sleeve, and adjustable means carried by the inner end of the rod and abutting against the adjacent end of the grip member, for forcing said member into engagement with the hammer head, the sleeve serving to reinforce the grip member.

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1,692,491. HOT TOP FOR INGOT MOLDS. MAXWELL GERSON DUMAS, Pittsburgh, Pa., assignor to Dumas Engineering Company, Youngstown, Ohio, a Corporation of Ohio. Continuation of application Serial No. 221,461, filed Sept. 23, 1927. This application filed July 27, 1928. Serial No. 295,680. 5 Claims. (Cl. 22—147.)



2. In a hot top or sink head, a hollow body having a predetermined inner dimension at its intermediate section, the body tapering inwardly in both directions from the intermediate section, and terminating in openings at the upper and lower ends thereof.

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1,692,492. PROCESS OF DYEING CELLULOSE DERIVATIVES. HEINZ EICHWEDE, ERICH FISCHER, and CARL ERICH MÜLLER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 23, 1925, Serial No. 77,399, and in Germany Jan. 9, 1925. 6 Claims. (Cl. 8—5.)

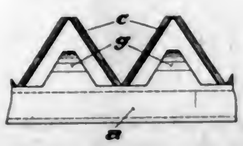
1. Process of dyeing compounds of the group including cellulose esters and cellulose ethers consisting in using for the dyeing process monoazo dyes obtainable by coupling a diazo compound containing at the most one sulfo group with an ortho-aminophenolether.

1,692,493. PROCESS OF DYEING CELLULOSE DERIVATIVES. HEINZ EICHWEDE, ERICH FISCHER, and CARL ERICH MÜLLER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 23, 1925, Serial No. 77,400, and in Germany Jan. 9, 1925. 6 Claims. (Cl. 8—5.)

1. Process of dyeing compounds of the group including cellulose esters and cellulose ethers consisting in using for the dyeing process monoazo dyes obtainable by coupling a diazo compound containing at the most one sulfo group with a monoacyl-metaphenylenediamine.

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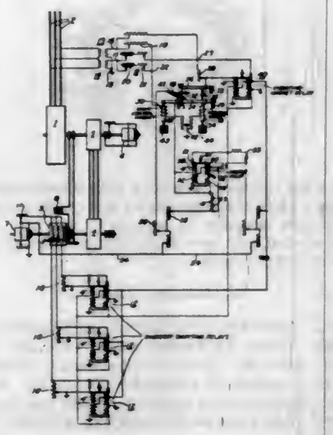
1,692,494. SUPPORT FOR KNIVES OF MOWING MACHINES. LEONHARD EISELE, Pfaffenhofen, Post Buttenwiesen, Germany. Filed Oct. 21, 1925, Serial No. 63,897, and in Germany Oct. 20, 1924. 1 Claim. (Cl. 56—299.)



A support for the knives of mowing machines, comprising a U-shaped supporting bar having a top plate of relatively great width and a bottom plate of relatively small width, said top plate being cut out to form a plurality of tongues, said tongues being adapted to rest upon the several blades of the mowing knife when inserted into the support.

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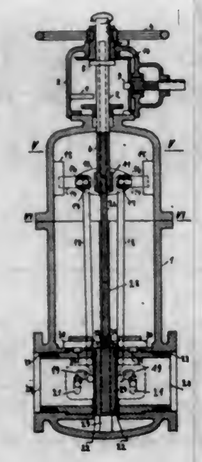
1,692,495. QUICK-EXCITED MACHINE AND SYSTEM OF TRANSMISSION. ROBERT D. EVANS, Pittsburgh, CHARLES F. WAGNER, Swissvale, ALEXANDER D. DOVJIKOV, Wilkinsburg, and ERROL B. SHAND, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1927. Serial No. 218,432. 21 Claims. (Cl. 171—119.)



1. The combination with a synchronous dynamo-electric machine, of a quick-response excitation system therefor, having a quickness of response sufficient to make a significant increase in exciting voltage before the air-gap flux of the machine has had time to drop more than about 3% by reason of the demagnetizing armature reaction equivalent to full-load demagnetizing current suddenly drawn from the machine terminals, and a voltage-responsive regulator operative to complete a corrective action necessary to initiate an increase in the excitation-system voltage in a time interval which is very small as compared to the first-mentioned time.

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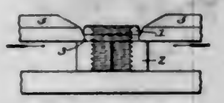
1,692,496. SLIDE STOP VALVE. WALTHER FRÖB, Eberswalde, near Berlin, Germany, assignor to the Firm Franz Seiffert & Co., Aktiengesellschaft, Berlin, Germany. Filed Oct. 11, 1926, Serial No. 140,952, and in Germany Oct. 16, 1925. 6 Claims. (Cl. 251—59.)



1. A slide stop-valve, comprising in combination, a casing and two oppositely located branches extending thereunto; a shiftable tubular member in each of said branches; a slide adapted to be introduced between, and withdrawn from, said tubular members; an operating mechanism for said slide and the tubular members and comprising means for lowering and lifting the slide, means for pressing the tightening faces of the tubular members against, and for withdrawing them from, the lowered slide, and means for pressing the tubular end members against one another when the slide is lifted.

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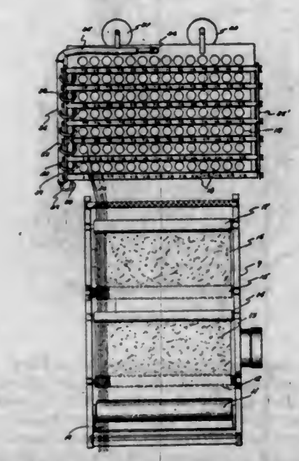
1,692,497. METHOD OF MAKING LOCK NUTS. JOHN GUY FURLAN, New York, N. Y., assignor to Furlan Nut Machinery Corporation, New York, N. Y., a Corporation of New York. Filed May 1, 1923, Serial No. 635,880. Renewed Apr. 16, 1928. 4 Claims. (Cl. 10—86.)



3. The method of making lock nuts which comprises the steps of forming a polygonal portion at one end of the nut and a rounded portion at the other end of the nut, and then expanding the said rounded portion next to the polygonal portion, to effect an axial extension of the rounded portion from the polygonal portion.



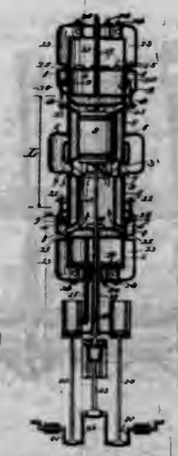
1,692,498. DRYING APPARATUS. WALTER S. GATES, Detroit, Mich., assignor, by mesne assignments, to General Cable Corporation, a Corporation of New Jersey. Filed Dec. 7, 1925. Serial No. 73,681. 7 Claims. (Cl. 34—48.)



1. A device of the class described adapted for effecting the drying of a plurality of threads consisting of a header having a plurality of emitting outlets each adapted for emitting a current of air directed against one of said threads.

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1,692,499. INTERNAL-COMBUSTION ENGINE WITH COUNTERRUNNING PISTONS. JOHN G. GRÖNVALL, Stockholm, Sweden. Filed Nov. 2, 1920, Serial No. 421,344, and in Great Britain Sept. 15, 1920. Renewed May 16, 1928. 8 Claims. (Cl. 133—62.)



1. A double acting two cycle internal combustion engine comprising a cylinder having a ring of exhaust ports arranged in the medial portion thereof, a hollow piston mounted to reciprocate in said cylinder, said hollow piston having a central ring of exhaust ports adapted to communicate with the exhaust ports of said cylinder, and a ring of inlet ports arranged adjacent each end thereof, said cylinder having air scavenging, air after charging and explosive fuel ports arranged in each end thereof adapted to communicate directly with the rings of inlet ports arranged at the opposite end of the hollow piston, and a piston reciprocating in said hollow piston forming combustion chambers therein, substantially as for the purpose specified.

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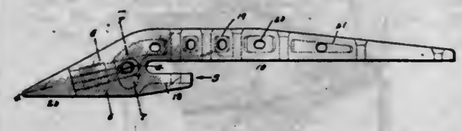
1,692,500. ROTARY RUST OR SCALE CLEANER. KNUT HARALD VILHELM GUSTAFSSON, Gottenborg, Sweden. Filed Apr. 18, 1927, Serial No. 184,744, and in Sweden Mar. 22, 1927. 2 Claims. (Cl. 15—104.14.)



1. A rotary rust or scale cleaner for internal cleaning of boiler and like tubes including a rotatable shaft, a chipping member eccentrically mounted at the free end of said shaft, guide means for said shaft located at a substantial distance from the chipping member whereby the axis of the journalled portion of said shaft is held in position in the centre of the tube under treatment to prevent displacement across the interior of the tube.

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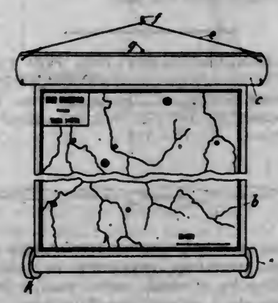
1,692,501. DIPPER TOOTH. GEORGE R. HANKS, High Bridge, N. J., assignor to Taylor-Wharton Iron and Steel Company, High Bridge, N. J., a Corporation of New Jersey. Filed Mar. 25, 1926. Serial No. 97,270. 3 Claims. (Cl. 37—142.)



1. A solid base having rivet openings and intervening metal reducing cavities whereof the entries are at right angles to the rivet openings, whereby provision is made for uniform heat treatment without weakening the structure of the base.

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1,692,502. SUSPENSION DEVICE FOR WALL CHARTS. RUDOLF HARM, Berlin-Schoneberg, Germany. Filed Nov. 28, 1925, Serial No. 72,027, and in Germany Dec. 7, 1927. 7 Claims. (Cl. 40—28.)



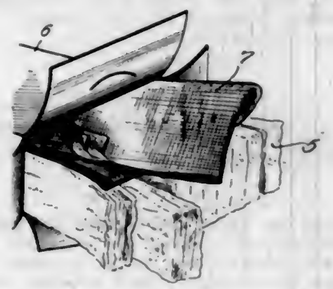
1. A suspension device for wall charts, maps and the like comprising two independent holding elements, one of said elements comprising two folding parts forming when closed a hollow cylinder.

1,692,503. MEANS FOR DISPENSING SURGICAL PLASTER. ROBERT P. HAYDEN, Highland Park, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed Apr. 30, 1926. Serial No. 105,749. 1 Claim. (Cl. 142—68.)



A hospital appliance, comprising a base having uprights whereof one is provided with a center point and whereof the other is formed with a downwardly opening slot, spring elements mounted therein to form downwardly opening reverse jaws, and a mandrel having one end adapted to said point and having its other end formed with a peripheral groove whereby it may be snapped into or out of place with relation to said spring jaws, said mandrel operating as a carrier for a factory filled plaster core.

1,692,504. PACKAGING SURGICAL NAPKINS. ROBERT P. HAYDEN, New Brunswick, N. J., assignor to Johnson & Johnson, New Brunswick, N. J., a Corporation of New Jersey. Filed Sept. 3, 1926. Serial No. 133,396. 2 Claims. (Cl. 206—47.)



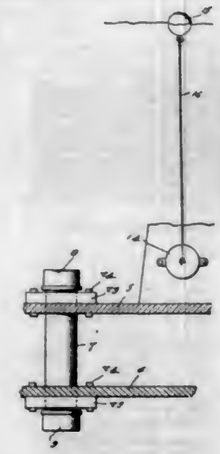
1. As an article of manufacture, means to admit of fabrication of sanitary napkins to suit the fancy or requirements of the individual, comprising a package containing a plurality of absorbent pads in a raw or blank state whereby they are capable of facile individual or collective modification, and a supply of gauze or muslin sufficient to accommodate the pads.

1,692,505. REENFORCEMENT BAR FOR CONCRETE STEEL AND METHOD OF MANUFACTURING THE SAME. ERNST HOFFMANN, Vienna, Austria. Filed Nov. 9, 1926, Serial No. 147,275, and in Austria Nov. 18, 1925. 4 Claims. (Cl. 72—111.)



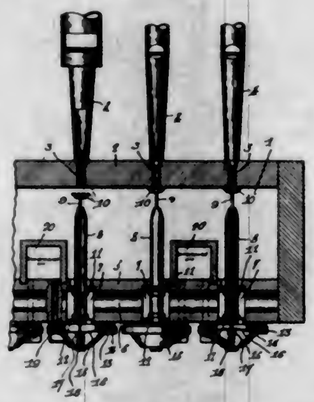
1. A method of manufacturing reenforcement bars for concrete steel structures consisting in cold twisting together, a plurality of single rods, equal in length contacting in pairs along generatrices throughout their entire length and having substantially the same round transverse section throughout their entire length, until at least the parts of the twisted bar remote from the center of the total transverse section are stretched beyond the limit of elasticity.

1,692,506. SUBMARINE SAFETY DEVICE. RICHARD M. JOHNSON, Red Bank, N. J. Filed Mar. 29, 1928. Serial No. 265,797. 2 Claims. (Cl. 114—16.4.)



1. A submarine safety device of the class described comprising a tube for extending between the outer and inner portions of the upper deck of a submarine, means for anchoring the tube in place, a plug threaded in the inner end of the tube, a coupling on the outer end of the tube, a tubular member engaged in the coupling, a conduit leading upwardly from the tubular member, a plug threaded in the upper end of the tubular member and an elongated handle depending from the last mentioned plug and terminating immediately above the first mentioned plug.

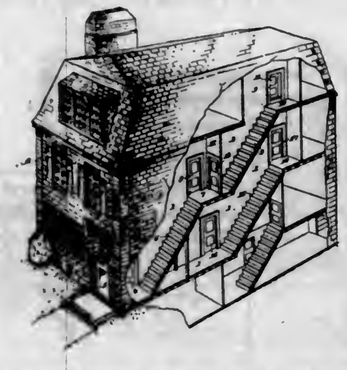
1,692,507. PNEUMATIC ACTION FOR PIPE ORGANS. FRÉDÉRIC LAMONTAGNE, Montreal, Quebec, Canada. Filed Sept. 8, 1925. Serial No. 55,150. 5 Claims. (Cl. 84—335.)



1. A pneumatic action for pipe organs comprising in combination with an air chest and an organ pipe communicating therewith, an air conduit member, an air chamber intersecting said conduit, a diaphragm having one side exposed to said chamber, said member having a duct independent of the conduit and leading to the other side of said diaphragm, a valve connected to said diaphragm and adapted to engage directly the inlet of said pipe, and a chamber containing compressed air.



1,692,508. BUILDING CONSTRUCTION. DANIEL E. MCAVOY, Long Island City, N. Y. Filed Sept. 11, 1924. Serial No. 737,189. 3 Claims. (Cl. 20—1.)

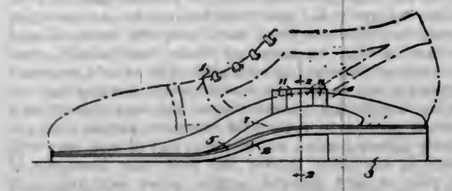


1. A building having a stair-well and straight flights of steps therein reaching from the ground floor to the uppermost floor of the building and completely bridging the space between the side walls of the well, thereby forming a continuous upwardly and rearwardly extending barrier between the front and the rear ends of the stair well; platforms or landings at the floors of successive stories; an outlet into the body of the building at each landing or platform, each such outlet provided with a closure; a main entrance at the ground floor, opening from the outside of the building into the stair-well; a doorway and door at the foot of the lowermost flight of steps, opening from the stair-well into the body of the building; a second stairway extending in rear of the first-named stairway from one story to another; and an outlet and a closure therefor, at the foot and head of such second stairway, opening into the body of the building on the floors connected by said second stairway; whereby a private passageway is afforded between the floors connected by such second stairway.

1,692,509. MANUFACTURE OF PHYSIOLOGICALLY-ACTIVE SUBSTANCES FROM ORGANS. WERNER MERKI, Basel, Switzerland, assignor to the Firm of Society of Chemical Industry in Basle, Basel, Switzerland. Filed Jan. 26, 1928, Serial No. 249,780, and in Switzerland Feb. 23, 1927. 8 Claims. (Cl. 167—7.)

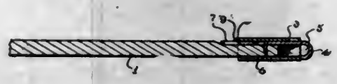
1. A process of extracting the internal secretory organs of females, wherein the fresh organs are cooled to such a low temperature that they become hard and in this condition are pulverized, whereupon the powder thus obtained is extracted with a suitable solvent.

1,692,510. SHOE AND ARCH PRESERVER. MICHAEL MINUTILLO, Holyoke, Mass. Filed May 23, 1927. Serial No. 193,086. 2 Claims. (Cl. 36—71.)



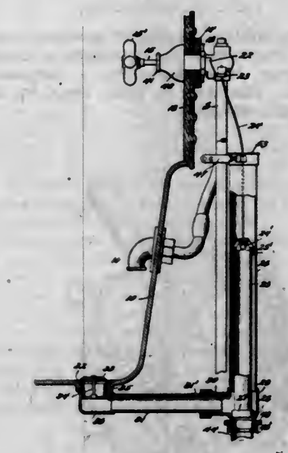
1. A shoe comprising a main sole, an inner sole having its inner side portion extended transversely from the main sole along the instep and adjacent heel and ball portions thereof and curved upwardly to form a brace for the instep portion of the shoe, an auxiliary bracing sheet of stiff material for the instep portion of the inner sole and brace forming portion thereof fitting against the under face thereof with its outer side face spaced from the adjacent side edge of the inner sole, and bracing strips extending transversely between the bracing sheet and instep portion of said inner sole with their outer end portions projecting from the bracing sheet and extending beyond the marginal edge of the brace forming portion of the innersole.

1,692,511. STRAP CONNECTION. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed June 7, 1928. Serial No. 283,647. 4 Claims. (Cl. 24—265.)



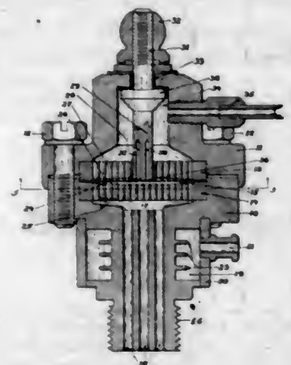
1. The combination with a strap, and an open ended box surrounding the strap, of an attaching device having a plate portion lying between an inner face of the box and the outer face of the strap and provided with a prong engaging the strap, and movable means carried by said plate portion for interlocking with the box to hold the latter against movement.

1,692,512. WASTE-CONTROL MECHANISM. PHILIP MUELLER and LUCIEN W. MUELLER, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Dec. 22, 1926. Serial No. 156,376. 9 Claims. (Cl. 4—202.)



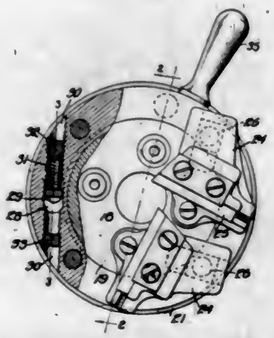
1. In a waste control, a stand pipe having a gravitative valve and a valve seat therein, a branch pipe adapted to conduct waste thereto from a tub or the like and operating means for said valve comprising a manually rotatable shaft, an arm carried by said shaft, a pin on said arm extending in substantially the direction of the shaft, and a continuous, integral wire-form element freely bendable and forming a connection between said pin and valve adapted to permit positioning of said stand pipe on various radii with respect to the axis of said shaft, said element having a loose connection directly with said pin at one end thereof and with the valve at the other end thereof.

1,692,513. INDICATOR. FLOYD B. NEWELL, Elmira, N. Y., assignor to Leopold Freedman and William H. Reynolds, Copartners, doing business as American Instrument Company, Washington, D. C. Filed May 3, 1920, Serial No. 378,694. Renewed Feb. 12, 1926. 10 Claims. (Cl. 73—110.)



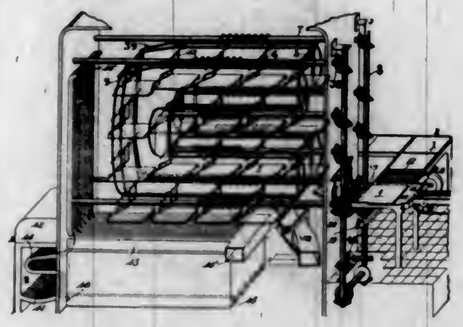
1. In an indicator, a body portion, diaphragm supporting means therein, a diaphragm held by said supporting means, the supporting means being provided with closely spaced ribs upon which the diaphragm will rest when pressure on its opposite side tends to force it out of its plane, said body portion having a pressure chamber on each side of the diaphragm adjacent a support and in communication with the respective side of the diaphragm.

1,692,514. DIE HEAD. SAMUEL F. NEWMAN and JAMES G. HARPER, Waynesboro, Pa., assignors to Landis Machine Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed Aug. 11, 1922. Serial No. 581,160. 13 Claims. (Cl. 10—100.)



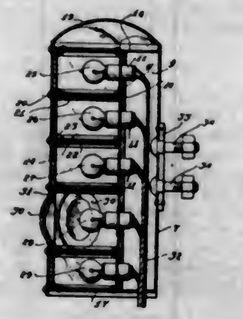
7. In a die head, a head body, rings surrounding the body, an integral circumferential flange at the end of the body for holding the rings in place, a shoulder on the said body, a thin ring surrounding said body and adapted to rest against said shoulder, a thin ring secured to said body for securing said first-named thin ring in position, and a supporting shank for the body bearing against the rearmost ring, said shank being movable axially relatively to said ring, substantially as set forth.

1,692,515. AUTOMATIC BAKING OVEN. FORTUNATO FERNANDEZ OVIEDO, Madrid, Spain. Filed Mar. 3, 1924, Serial No. 696,659, and in Spain Apr. 11, 1923. 6 Claims. (Cl. 107—57.)



1. An oven for baking loaves of bread and the like, including a heating chamber, an endless tray carrier operating within the chamber, an ovening table communicating with the chamber, automatic tray transferring mechanism between the table and carrier, automatic discharging mechanism for the trays including means for tipping the trays, means for separating the loaves from the trays, and means for separately discharging the loaves and the trays.

1,692,516. VEHICLE SIGNAL. JAMES H. REED, Detroit, Mich. Filed Mar. 1, 1926. Serial No. 91,366. 2 Claims. (Cl. 177—329.)



2. A vehicle signal housing of the class described having a rear portion comprising a rear wall; inclined side walls mounted on said rear wall, said side walls diverging outwardly from said rear wall; a forward portion comprising a front wall; side walls inclined to and diverging outwardly from said front wall, said side walls on said forward portion engaging at their longitudinal edges the longitudinal edges of said side walls of said rearward portion; a top formed on said forward portions and extending rearwardly thereof beyond the rear edge of said forward portion to cover said rearward portion; an angularly turned portion on the upper end of said rear wall extending forwardly thereof and projecting forwardly of the rear of said forward portion below said top; and an angularly turned portion on the lower end of said rear wall extending forwardly thereof and projecting forwardly of the rear of said forward portion to provide a bottom for said housing; and means for connecting said forward portion to said rearward portion.

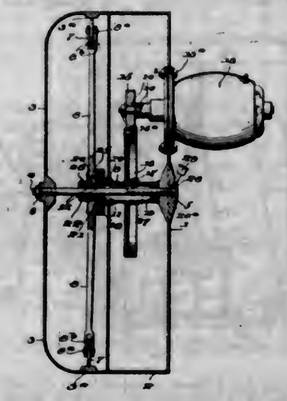


1,692,517. CORD REEL. DANIEL BENSON REPLOGLE, Berkeley, Calif., assignor to Commerce Guardian Trust and Savings Bank, trustee, Toledo, Ohio. Filed Aug. 20, 1923, Serial No. 658,349, and in Germany about June 21, 1923. 5 Claims. (Cl. 242—97.)



1. A cord reel comprising essentially a dish shaped cover and a thin spool, the said cover having a rigidly anchored central bearing member on which the spool is adapted to be revolved, said spool being provided with a central slotted disk adapted to have looped therethrough the cord to be wound, and a separate disk adapted to make a closure of the cover when the spool is in place.

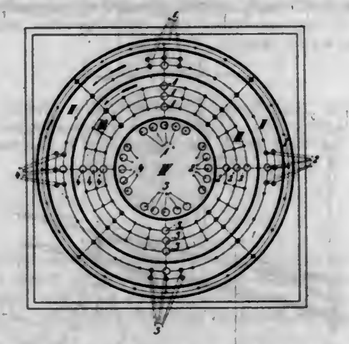
1,692,518. ALARM. SAMUEL SOTAK, Jr., Lansford, Pa. Filed Nov. 18, 1925. Serial No. 69,864. 4 Claims. (Cl. 116—158.)



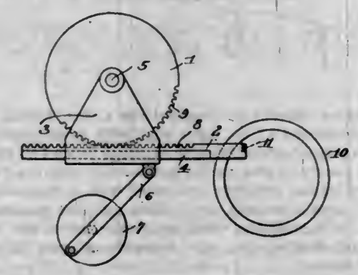
1. A signal device comprising a supported stud carrying an alarm member, a hollow shaft rotatably mounted concentrically with the stud and supported by it, a member cooperating with said alarm member and mounted on said stud and rotatable independently of said hollow shaft, and means connecting said co-operating rotatable member and the hollow shaft for effecting such independent rotation in but one direction.

1,692,519. SOCIETY GAME. ARTHUR SPILLING, Cassel, Germany. Filed July 7, 1927, Serial No. 204,008, and in Germany Apr. 14, 1927. 5 Claims. (Cl. 273—134.)

1. A society game, comprising a board showing four concentric rings, an annular line in each of the outer two rings and three annular lines in the third ring, counter- or men-fields inserted into all said lines, separate fields located in the fourth or innermost ring and radial lines connecting some of the fields in one ring with some of the fields in another ring.



1,692,520. METHOD AND APPARATUS FOR CUTTING GEARS. HAROLD E. STONEBRAKER, Rochester, N. Y. Filed Apr. 25, 1927. Serial No. 186,435. 6 Claims. (Cl. 90—9.)



1. The method of imparting endwise curvature to gear teeth, consisting in rolling a tool support bodily and without slippage on a curved guide member with which the tool support is in immediate contact, the latter being located with reference to the blank so that said rolling motion causes the tool to travel across the face of the blank in a curved non-circular cutting path.

6. A gear cutter mechanism comprising a tool support and a circular guide member on which the tool support has bodily rolling movement, the guide member being so located with reference to the gear blank that said rolling movement causes the tool to travel across the face of a blank in a curved cutting path, rack teeth on the tool support engaging teeth on the guide member, and a carrier mounted concentrically of the guide member and slidably holding the tool support, the latter being arranged between the circular guide member and the bottom surface of the carrier.

1,692,521. MANUFACTURE OF CONTAINERS FOR COMPRESSED GASES. HERMAN E. STÜRCKE, Port Orange, Fla. Filed May 8, 1924. Serial No. 711,877. 7 Claims. (Cl. 148—12.)

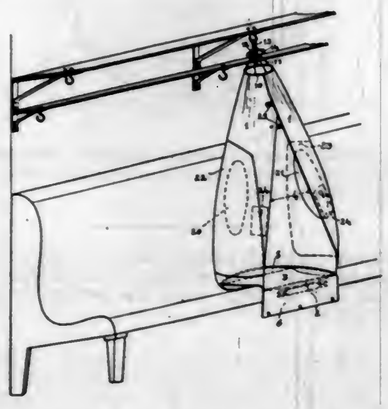


1. In the manufacture of containers for compressed gases, the method which consists in forming them from

comparatively soft steel substantially devoid of heat and mechanical stresses, annealing them, subjecting the containers to internally applied pressure corresponding to the ultimate test pressure, and removing the mechanical stresses set up thereby.

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1,692,522. HANGING SLEEPING TENT. JOSEFINE TILL and KONRAD TILL, Neutitschein, Czechoslovakia. Filed Aug. 24, 1925, Serial No. 52,192, and in Czechoslovakia Dec. 19, 1924. 1 Claim. (Cl. 155—58.)



Hanging sleeping-tent comprising a seat bottom, a tent cloth connected at its lower edge with three edges of the seat bottom a hollow roll with openings formed on the upper end of the tent a disk having a relatively large central opening and lateral openings, connected with a suspending ring a cord drawn through the hollow roll and passing alternatively through the openings of the latter and through the holes of the disk in order to secure an equal distribution of the load.

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1,692,523. HINGED DRYING FRAME. PAUL J. TIMBERLAKE, Jackson, Mich. Filed July 14, 1926. Serial No. 122,378. 2 Claims. (Cl. 223—19.)



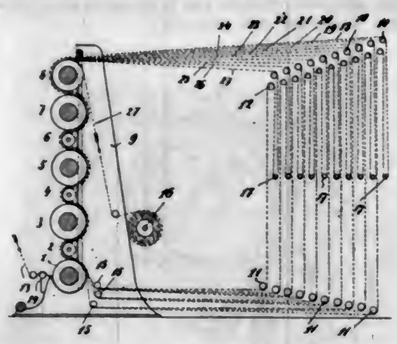
1. In a drying form, a frame to support the article to be dried, formed with a hinge portion; and a cooperating hinge member encircling the said hinge portion in which the latter may turn, the said hinge parts being formed with interengaging friction-producing means which, while permitting movement of the drying frame, operate to hold the latter in desired position.

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1,692,524. PLASTIC RESINOUS MATERIAL AND PROCESS OF MAKING SAME. HARRY M. WEBER, Montclair, N. J., assignor to Ellis-Foster Company, a Corporation of New Jersey. Filed Jan. 12, 1924. Serial No. 685,887. 8 Claims. (Cl. 106—22.)

1. In the process of making resinous molding composition the step which comprises grinding magnesium oxide with formaldehyde.

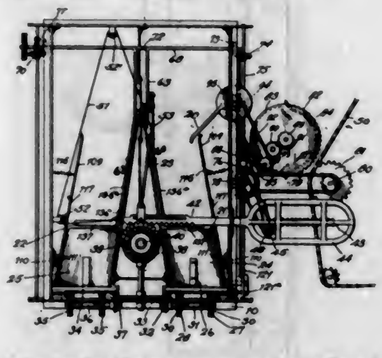
1,692,525. CALENDER. ERNST WERNER, Oberlangenbielau, Germany. Filed Dec. 16, 1927, Serial No. 240,597, and in Germany Nov. 13, 1926. 4 Claims. (Cl. 26—39.)



1. The combination in a calendering machine of a set of calendering rollers adapted to operate on superimposed layers of a continuous web of fabric, a set of upper guiding rollers and a set of lower guiding rollers, one of each set of upper and lower guiding rollers being associated with a corresponding layer of said web and adapted to guide said layer in its course from one passage through said calendering rollers to the next, an intermediate guide roller arranged immediately underneath each of said upper guiding rollers and receiving the web coming from the apurtenant upper guiding roller in such a way that a slack is formed in the web between it and said appurtenant upper guiding roller, and means for compensating for said slack.

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1,692,526. SHOCKER. GEORGE B. WEST, Lester Township, Black Hawk County, Iowa. Filed Jan. 2, 1926. Serial No. 78,922. 15 Claims. (Cl. 56—415.)



1. A shocker for binders comprising two valleys for receiving the bundles, alternately operated packers for moving the bundles to the rear and means under direct control of the ejecting mechanism of the binder for operating the packers.

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1,692,527. SLEEVE HOLDER. ALBERT WIEGEL, Cassel, Germany. Filed July 7, 1927, Serial No. 204,000, and in Germany May 5, 1926. 1 Claim. (Cl. 24—15.)



A sleeve holder consisting of a flat clasp, which is bent from thin elastic wire, the opposite halves of which are bent to a semi-circle in the middle and are connected by a ball at each end.

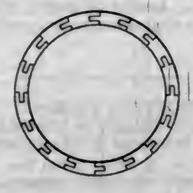


1,692,528. METHOD FOR THE MANUFACTURE OF BICHROMATE-GLUE PRINTING PLATES FOR HAND PRINTING OR PRESS DEEP PRINTING. MAX WIRLAND, Berlin-Tempelhof, Germany. Filed Nov. 7, 1924, Serial No. 748,487, and in Germany Nov. 13, 1923. Renewed Sept. 22, 1928. 3 Claims. (Cl. 95—5.6.)

1. In the method of producing chromic acid salt colloid printing plates the step of mixing a colloid with a hydraulic binding substance in such proportions as to preserve the ability of the colloid to swell.

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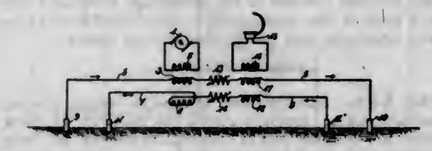
1,692,529. MACHINE FOR MAKING HOLLOW TUBES OR CONDUCTORS. JOHANN ZAGORSKI, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to American Luigi Corporation, New York, N. Y., a Corporation of New York. Original application filed Jan. 29, 1926, Serial No. 84,796, and in Germany Feb. 3, 1925. Divided and this application filed Dec. 14, 1926. Serial No. 154,841. 11 Claims. (Cl. 29—1.)



1. A machine for forming hollow tubes or conductors from bands provided with corresponding projections and recesses consisting of pressure means for interlocking the bands, such means comprising a mandrel and a die surrounding the mandrel and having an internal diameter corresponding to the external diameter of the finished tube, means for guiding the bands into engagement with each other and means for pulling the bands through the pressure means, whereby pressure is applied to the wires or strips to force the projections and recesses into interlocking engagement.

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1,692,530. METHOD AND APPARATUS FOR LOCATING ORE BODIES. THEODORE ZUSCHLAG, New York, N. Y., assignor to The Taumac Corporation, New York, N. Y., a Corporation of New York. Filed May 15, 1925. Serial No. 30,478. 7 Claims. (Cl. 175—182.)



1. In the art of locating ore bodies by observing the characteristics of subterranean electric currents, the method of generating subterranean currents which consists in causing a flow of current between spaced points, causing another opposite flow of current of equal magnitude and adjacent to and parallel with the first-mentioned flow, and grounding said currents at spaced points to produce subterranean currents.

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1,692,531. POWER-TRANSMISSION MECHANISM. ALEXANDER ABRAMSON, Prague, Czechoslovakia. Filed July 21, 1927, Serial No. 207,526, and in Russia Aug. 9, 1926. 3 Claims. (Cl. 74—7.)

1. A power transmission mechanism having a limited free movement for use as a differential gear, especially in motor cars, comprising driving half-axles, abutments secured to said half-axles, said abutments being formed with angular recesses in their adjacent surfaces, a driving casing, a common driving pin arranged in said casing for normally driving said abutments, a ball cake stationarily located in the driving casing, a locking ball arranged between the angular recesses in the abutments and displaceable in a direction parallel to the axes in said ball cage, said locking ball being adapted to lock one of the abutments to the casing when the other abutment runs freely.



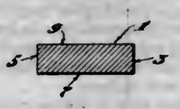
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1,692,532. WASH OR COATING FOR INGOT MOLDS. JOHN W. ALDEN, Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 19, 1926. Serial No. 82,377. 6 Claims. (Cl. 22—189.)

1. The herein described coating for ingot molds comprising a mixture of commercial aluminum powder and tar.

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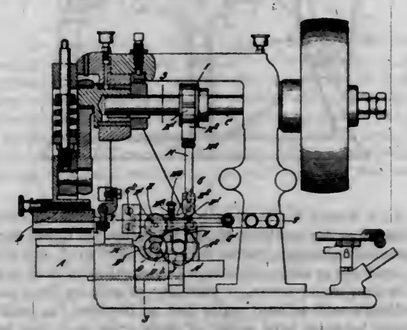
1,692,533. WELTING. EDWARD W. ARNOLD, North Abington, Mass. Filed Sept. 20, 1926. Serial No. 136,487. 10 Claims. (Cl. 36—78.)



1. A method of manufacturing welting for shoes characterized by making a longitudinal incision in the body of a leather strip near an edge thereof, and pressing outward the portion of the strip between the incision and said edge to open the incision, set the inner edge out to be oblique to the grain face, and increase the width of the strip.

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1,692,534. MACHINE FOR MAKING CARDBOARD AND SIMILAR BOXES. NICHOLAS PENTREATH ANDREW, WILLIAM LESLIE MACFIE, and ROBERT WILLIAM ROSE, Finsbury, London, England, assignors to Nicholas Pentreath Andrew and George Ernest Suter, Copartners, trading as Andrew & Suter, Finsbury, England. Filed Dec. 22, 1926, Serial No. 156,202, and in Great Britain Mar. 15, 1926. 14 Claims. (Cl. 93—56.)

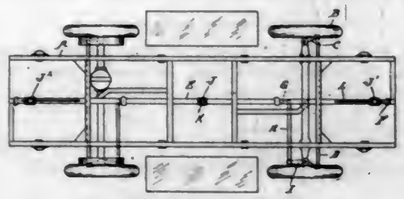


1. Feeding mechanism for advancing a strip to the cutter and anvil of a box corner staying machine as hereinbefore

referred to, comprising feed rollers for advancing the strip, gearing for actuating said rollers, a toothed rack for actuating said gearing, means for reciprocating the said toothed rack, means whereby the advancing movement is rendered intermittent, means for varying the position of the anvil in relation to a plunger that applies the strip to the box corner and means whereby the said adjustment of the anvil varies the extent of movement of the toothed rack in order to impart a feeding movement that advances a length of strip to suit the position of the anvil.

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1,692,535. STEERING MECHANISM FOR MOTOR VEHICLES. GEORGE M. BACON, Detroit, Mich., assignor to Divco-Detroit Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 14, 1924. Serial No. 686,163. 7 Claims. (Cl. 280—91.)

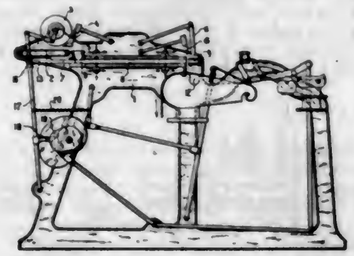


1. The combination with a vehicle chassis and steering mechanism therefor, of a rock shaft extending longitudinally of said chassis and operatively connected to said steering mechanism, a plurality of socket bearings on said rock shaft at different points in the length thereof, certain of said sockets being keyed to said shaft but longitudinally adjustable thereon and an upwardly extending controlling lever for engaging said sockets.

6. The combination with a vehicle chassis and steering mechanism therefor, of a rock shaft for actuating the steering mechanism, a plurality of sockets splined to said rock shaft for longitudinal adjustment thereon, and controlling arms detachably engageable in the said sockets.

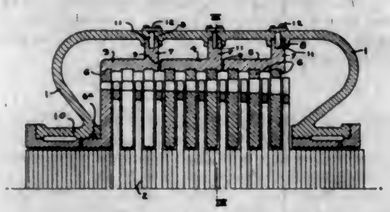
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1,692,536. FEEDING DEVICE. ADOLF BARGEBOER, Rotterdam, Netherlands. Filed Sept. 23, 1924, Serial No. 739,435, and in the Netherlands Oct. 23, 1923. 3 Claims. (Cl. 131—39.)



1. In a device for feeding tobacco and similar material to a machine for working on the material, an upper series of parallel conveyor bars, a lower series of conveyor bars, said lower series of bars being parallel to each other and to said upper series, a plurality of gripper bars associated with each of said series and an impeller for feeding material between said series of bars, said conveyor bars being adapted to move toward each other to grip the material and move it longitudinally.

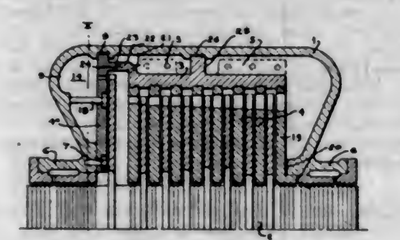
1,692,537. ELASTIC-FLUID TURBINE. KARL BAUMANN, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1924, Serial No. 720,663, and in Great Britain Aug. 2, 1923. 10 Claims. (Cl. 253—69.)



1. A turbine having an internal stator wherein the internal stator is connected with some other stationary part of the turbine by a number of guides which are capable of movement in a radial direction only relative to at least one of these parts.

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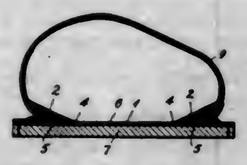
1,692,538. ELASTIC-FLUID TURBINE. KARL BAUMANN, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 8, 1924, Serial No. 736,639, and in Great Britain Sept. 12, 1923. Renewed Aug. 9, 1928. 21 Claims. (Cl. 253—69.)



1. In a turbine, the combination of a casing, a diaphragm carrying stator disposed within the casing and means supporting at least one end of the diaphragm carrying stator from a part of the casing substantially unaffected by irregular expansion and contraction of said casing.

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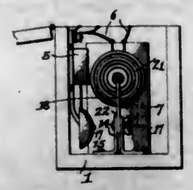
1,692,539. FOOTWEAR. JAROSLAV BENDA, Prague, Czechoslovakia. Original application filed Oct. 11, 1924, Serial No. 743,140, and in Czechoslovakia Oct. 19, 1923. Divided and this application filed May 8, 1926. Serial No. 107,820. 3 Claims. (Cl. 36—22.)



1. In boots and shoes of the character described, an insole having an inclined margin of a width representing from ⅛ to ¼ of the wides portion of the insole extending right round the latter except at the inside of the waist, said margin being inclined so as to present a concave surface to the foot.



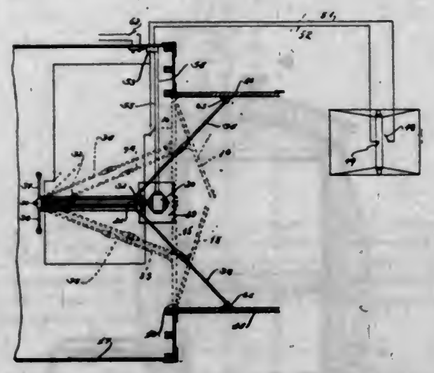
1,692,540. THERMOSTATICALLY-OPERATED SWITCH. ERNEST L. BENSON, Pueblo, Colo. Filed Sept. 3, 1921. Serial No. 498,334. 1 Claim. (Cl. 200—136.)



An adjustable thermostat mounting, comprising a bracket including a pair of members one of which is adapted to be mounted in upright position and is provided with a slot, the other member being arranged in overlapping end relation to the slotted member, a bolt extending through the other member and through the slot, a nut for said bolt cooperating therewith to maintain the members in adjusted position with relation to one another, lug members carried by said other member and adapted to rest upon the top edge of the slotted member, and a thermostat mounted on said other member whereby it may be adjusted in spaced relation with respect to an associate instrument, said slotted member having the slot formed therein transversely of the upper end thereof to permit horizontal adjustment of said thermostat.

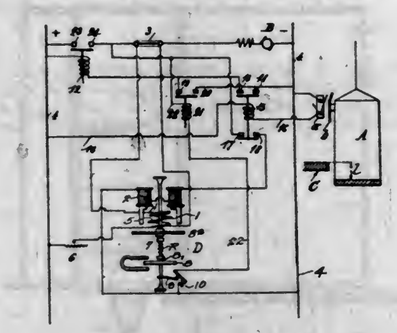
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1,692,541. DOOR OPENER AND CLOSER. HARRY HILL BLISS and KURT PORTER, Royal Oak, Mich.; Olive M. Bliss administratrix of said Harry Hill Bliss, deceased. Filed Feb. 19, 1927. Serial No. 169,442. 1 Claim. (Cl. 268—63.)



In a door opener of the class described, a rotatable member; an electrically operated motor for rotating said member; a carriage on said rotatable member movable axially thereof upon rotation thereof; a pair of supporting members in spaced relation and extending parallel to, at opposite sides of, said threaded member, said carriage extending between and above and below said supporting members; a switch mounted on the outer face of each of said supporting members, adjacent one end of one of said supporting members, and adjacent the other end of the other of said supporting members; a downwardly projecting rockable arm on each of said switches; a pair of rockable dogs mounted on said carriage below said supporting members and at the outer sides thereof; and a spring for normally retaining said dogs in upwardly extended position, said dogs engaging said arms upon movement of said carriage past said switches, the engagement of said dogs, upon movement of said carriage in one direction, effecting a rocking of said switch arms to control the circuit to said motor, said dogs being oppositely faced.

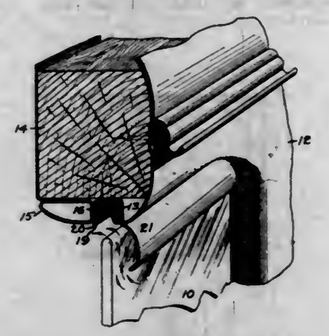
1,692,542. ELECTRICAL MEANS FOR CONTROLLING LIFTS AND THE LIKE. ANTOINE BOSSELUT, Paris, France. Filed Jan. 19, 1926, Serial No. 82,274, and in France Dec. 3, 1925. 7 Claims. (Cl. 187—29.)



5. In an electrically controlled lift the combination with a cage, an electric motor driving the cage, a limit switch associated with the cage, a wattage relay associated with said motor and with said switch, adjustable means to take into account the usual balance of the lift, a movable member displaced when said relay is energized and means for breaking the circuit of the said motor on the return of said member to its initial position.

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1,692,543. BODY CONSTRUCTION. JOSEPH H. BOURGON, Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind., a Corporation of New Jersey. Filed July 2, 1926. Serial No. 120,118. 3 Claims. (Cl. 296—44.)



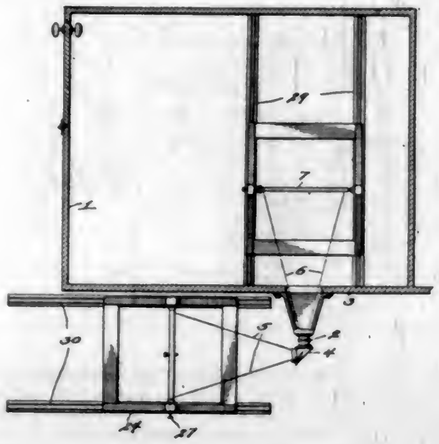
1. In combination with a window and a window frame having a longitudinally disposed recess therein, a pliable channel member for receiving the upper edge of said window, and a metallic channel member supporting said pliable member fitting within said recess and secured to said window frame, said metallic member having an imperforate deflector portion curved outwardly and then inwardly positioned in spaced relation to the plane of said window.

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1,692,544. PHOTOGRAPHIC COPYING MACHINE. ARTHUR W. CAPE and IVAN E. LEININGER, Kansas City, Mo., assignors, by mesne assignments, to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 19, 1924. Serial No. 687,278. 10 Claims. (Cl. 88—24.)

10. In a photographic machine for copying pages, a lens and prism, a page-holder mounted for reversal to present

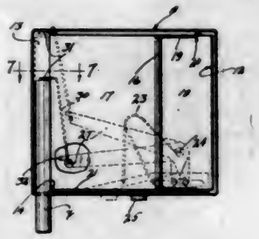
opposite sides of a page to the lens and prism, and a sensitized paper holder arranged to receive images in proper



registration from the page holder and mounted for reversal to expose in proper arrangement the opposite sides of the sensitized paper.

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1,692,545. CIGARETTE CASE. FRANCIS W. CARPENTER, Minneapolis, Minn., assignor of one-half to Maurice H. Graham, St. Louis Park, Minn. Filed May 9, 1927. Serial No. 189,867. 6 Claims. (Cl. 206—41).

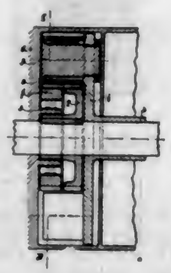


1. In a cigarette case, a body having a displaceable cover, and a partition in the body dividing the same into a supply compartment and a reserve compartment, said supply compartment having a discharge passage and being of a width less than that of the length thereof, said partition being displaceable to permit cigarettes to be moved laterally thereunder from the reserve compartment to the supply compartment.

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1,692,546. ELECTROMECHANICAL STARTING DEVICE FOR HEAT ENGINES. GASTON DOLNE-DEHAN, Juan les Pins, France. Filed Jan. 21, 1926, Serial No. 82,829, and in Belgium Jan. 21, 1925. 2 Claims. (Cl. 74—34.)

1. In a transmission mechanism for a heat engine, a toothed gear secured to the shaft of said engine, a second toothed gear disposed axially to said first-gear and rotatable with respect thereto, a sleeve freely mounted on said shaft and provided with an annular flange, and a planet gear freely mounted on said flange and engaging both of said toothed gears, said second gear and said planet gear being provided with free wheel clutches, one of said clutches locking said second gear when said sleeve is driving said engine, the other of said clutches locking said planet gear when the engine is running to drive said sleeve, whereby there is no longitudinal displacement of the members upon transmission from one position to the other.



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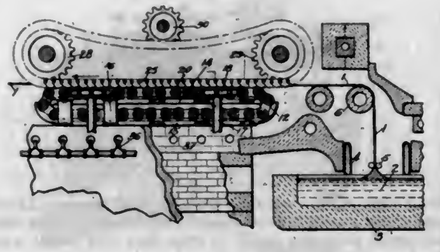
1,692,547. PORTABLE ELECTRIC COOKER. MORRIS EVANS, Washington, D. C. Filed Dec. 19, 1922. Serial No. 607,850. 2 Claims. (Cl. 219—35.)



1. A portable electric cooker including outer and inner walls spaced apart around the sides and bottom and having an iner heating chamber within the inner wall, said inner wall being bent outwardly at the upper end thereof for closing the space between the outer and inner walls, insulating material interposed between the outer and inner walls, a heating unit of refractory material, having a wire of high resistance molded therein surrounding the inner wall for heating the inner chamber, a mica lining interposed between the heating unit and the insulating material, means for supporting the heating unit from the bottom of the outer wall, an electric plug connected with the side of the outer wall for supplying electric current to the resistance wire, and an insulated cover for the heating chamber.



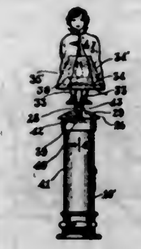
1,692,548. METHOD AND APPARATUS FOR DRAWING AND FLATTENING SHEET GLASS. ENOCH T. FERNOREN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,031. 22 Claims. (Cl. 49—17.)



1. In the art of continuously drawing sheet glass, the process of supporting the moving sheet during the flattening period along a plurality of straight parallel lines which are constantly shifting with respect to the sheet to prevent sagging of the sheet between the lines of support.

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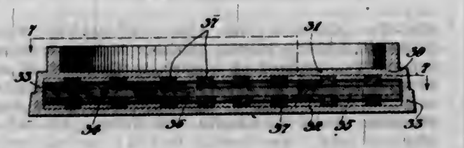
1,692,549. ELECTRIC POST LAMP. MIGUEL A. CARVAJAL DE CASTRO, Bogota, Colombia. Filed Oct. 24, 1927. Serial No. 228,165. 6 Claims. (Cl. 240—6.4.)



1. An electric post lamp of the class described comprising a flashlight, an attachment mounted on the casing of said flashlight, a doll supported by said attachment and a reflector mounted on said attachment disposed below the torso of said doll and beneath the skirt thereof adapted to direct rays of light downwardly.

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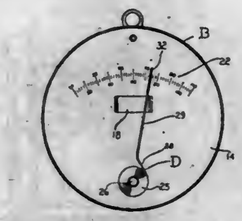
1,692,550. METHOD OF CONSTRUCTING VAULT OR SAFE DOORS AND THE LIKE. GUSTAVE M. GOLDSMITH, Cincinnati, and CARL BARTELS, Hamilton, Ohio, assignors to The Mosler Safe Company, Hamilton, Ohio, a Corporation of New York. Original application filed Aug. 18, 1923, Serial No. 658,004. Divided and this application filed Sept. 25, 1926. Serial No. 137,654. 2 Claims. (Cl. 22—206.)



1. The method of constructing walls for safes, which consists of placing a metallic insert having recesses between recessed walls of a chamber in a metallic body portion with the recesses in said insert and chamber walls in alignment, surrounding said insert and filling said aligned recesses and the cracks and crevices between the insert and the body portion by flowing molten material into said recesses, cracks and crevices, the molten material solidifying therein.

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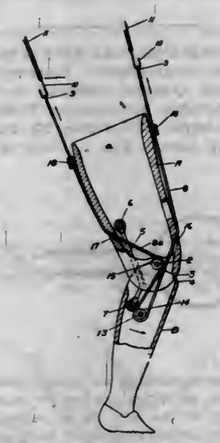
1,692,551. THERMOMETER. BLAINE H. HARRIS, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 15, 1926. Serial No. 148,477. 3 Claims. (Cl. 73—118.)



1. A thermometer comprising front and back telescoping members of sheet metal adapted to form a casing, a thermo unit secured to said back member between said members, said back member having gauge marks thereon, an indicating finger integral with the thermo unit and cooperating with said gauge marks to indicate the temperature and said front member having an opening formed therein providing a window to disclose the relation between the indicating finger of said thermo unit and said gauge marks.

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1,692,552. ARTIFICIAL LIMB. HARRY W. KARN, Pittsburgh, Pa. Filed Jan. 7, 1925. Serial No. 997. 4 Claims. (Cl. 3—2.)

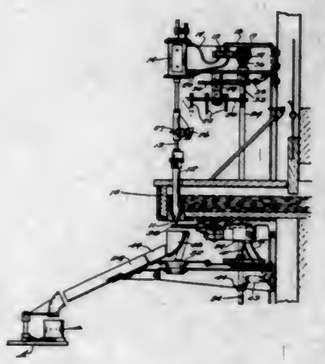


4. The combination with a hollow thigh member having inwardly extending centrally spaced pivot bearings, and a hollow lower shin member pivoted thereto and provided with a cross bearing roller below the pivot, said pivot consisting of a cross pin extending through the inwardly disposed bearings with an intervening roller thereon, of a pair of continuous substantially parallel tension members passing down directly in front and oppositely back

of the thigh member, then inwardly at front and back above the joint, over and in front of the pivotal connection and over the bearing roller thereon between the pivot bearings of the thigh member and around the cross bearing roller of the shin member, and having separable connections at their upper outer ends at front and back with a pair of shoulder straps.

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1,692,553. GLASS-FEEDING MECHANISM. RICHARD LA FRANCE, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 23, 1921. Serial No. 502,764. 10 Claims. (Cl. 49—55.)



5. The combination of a receptacle for molten glass having an outlet through which the glass is discharged, a device operable periodically to control said discharge, a series of stops to limit the movement of said controlling device, and automatic means to bring said stops successively into operative relation to said device, said stops being individually adjustable to selectively vary the extent of movements of said controlling device.

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1,692,554. DEVICE FOR ILLUMINATING ALL KINDS OF HOLLOW MEMBERS. FRIEDRICH FERDINAND LEITER, Vienna, Austria, assignor to Josef Leiter, Fabrik Chirurgischer Instrumente, Vienna, Austria, a Company of Austria. Filed Jan. 22, 1924, Serial No. 687,880, and in Austria Feb. 1, 1923. 4 Claims. (Cl. 128—6.)



1. A cystoscope comprising an ocular tubulus, an external source of light, an optical system for transmitting light from said source to the area to be examined, a second optical system for transmitting light from said area to the front end of said tubulus and a tubular member enveloping both optical systems.

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1,692,555. AIR PISTOL OR GUN. GEORGE S. LEWIS, Springfield, Mass. Filed Feb. 8, 1927. Serial No. 166,698. 9 Claims. (Cl. 124—10.)

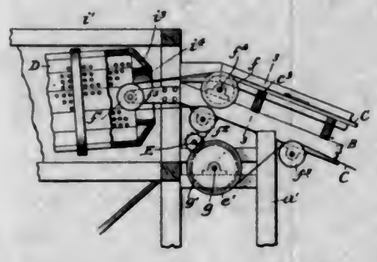
8. The combination, in an air pistol or gun, with a frame provided with a fixed barrel, of a breech block slidingly mounted on said frame behind said barrel, a perforated plug in the forward end of said block, and a pusher carried by said block and extending into the opening therein, said pusher being of less area transversely



than that of the opening through said plunger to permit of the passage of air therethrough, and adapted, when advanced with said block, to force into said barrel a bullet inserted in the breech thereof.

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1,692,556. SCREEN-FEEDING MEANS FOR TILE-CLEANING MACHINES. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Company, Ltd., New York, N. Y., a Corporation of New York. Original application filed July 22, 1921, Serial No. 487,854. Divided and this application filed Apr. 16, 1925. Serial No. 23,593. 2 Claims. (Cl. 209—284.)



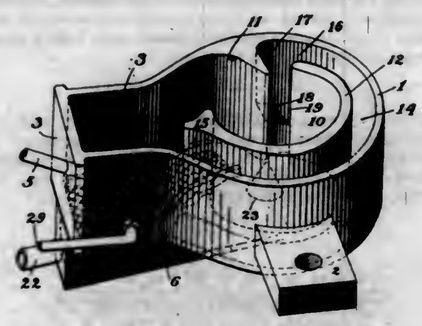
1. A tile cleaning machine embodying a rotary separating cylinder the receiving end of which is reduced in diameter, a cylindrical band concentric with the cylinder, said band extending into said cylinder inwardly from the reduced end thereof, said cylindrical band and the reduced cylinder end partially closing the receiving end of the cylinder and said band affording an inlet for material, and an endless conveyor the discharge end portion of which is projected beyond the cylindrical band, said discharge end of the conveyor being located slightly above the level of the lower portion of the band and said discharge end being enveloped by the cylindrical band and by the cylinder.

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1,692,557. METHOD OF AND APPARATUS FOR BURNING LIQUID FUEL. HERBERT R. MARSH, Philadelphia, Pa., assignor of one-half to Daniel F. Ryan, Kirklyn, Pa., Mutual Trust Company of Philadelphia, executor of said Daniel F. Ryan, deceased. Filed Aug. 20, 1926. Serial No. 130,374. 12 Claims. (Cl. 158—28.)

1. The method of burning liquid fuel, which consists in vaporizing the fuel, commingling the fuel with air, causing the commingled gases to travel in a path which is first eccentric and then concentric relatively to a combustion chamber, and introducing into the combustion chamber above the commingled gases in proximity to the fuel and air inlet and in the direction of flow of gases in the

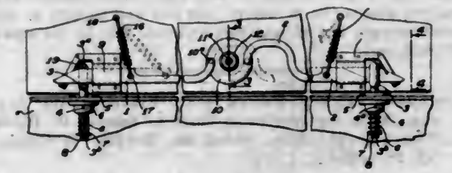




combustion chamber a stratum of highly heated air and fuel through which the commingled gases pass to their discharge outlet.

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1,692,558. AUTOMOBILE ENGINE-HOOD RETAINING AND LOCKING MEANS. ARTHUR C. MCBRIDE and FREDERICK W. RENWORTH, San Diego, Calif., assignors of one-third to Charles H. E. Remondino, San Diego, Calif. Filed Oct. 26, 1926. Serial No. 144,239. 4 Claims. (Cl. 70—74.)



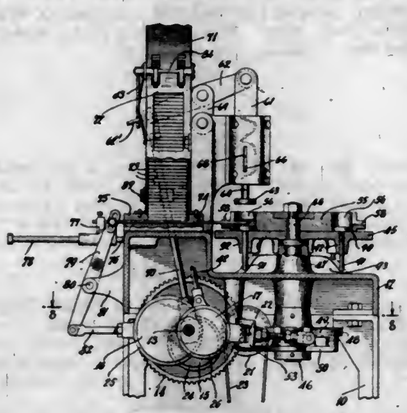
1. In a means of the class described, a guide member, a bolt member longitudinally reciprocally mounted in said guide member and also laterally shiftable therein, a rotatable member pivotally connected to the inner end of said bolt member, and a spring means adapted to force said bolt member outwardly and normally against one side of said guide member and adapted also to resiliently retain said bolt member in its withdrawn position.

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1,692,559. CANDY-MAKING MACHINE. ERECK C. MILLER, Newark, N. J., assignor, by mesne assignments, to Racine Confectioners Machinery Company, Racine, Wis., a Corporation of Wisconsin. Filed Dec. 7, 1922. Serial No. 605,516. 13 Claims. (Cl. 107—8.)

8. In a lollypop machine, a turntable having a plurality of mold cavities, a plunger adapted to co-operate with said cavities successively, and means for rotating said turntable to bring said cavities successively into position to co-operate with said plunger, said rotating means comprising a ratchet connected with said turntable, a pawl for advancing said ratchet, a second pawl for preventing reverse movement of said ratchet, and a third pawl controlled by movement of said first-named pawl for limiting the advance movement of the ratchet.

12. The combination with sizing and feeding rollers, of a guideway extending to and from said rollers and disposed axially of the passage between the rollers, and a cutting device disposed transversely across the delivery end of the guideway, the cutting device comprising upper and lower blades pivotally supported at opposite sides of the guideway, means for causing the blades to simul-



taneously move in opposite directions, and a hammer adjacent the said blades and adapted to be operated subsequently to the movement of the blades to sever the candy material to drive the separated section thereof away from the blades.

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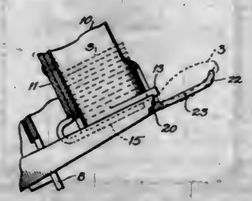
1,692,560. STOPPING MECHANISM FOR STRINGED MUSICAL INSTRUMENTS. JOHN MOKREJS, New York, N. Y. Filed Nov. 27, 1925. Serial No. 71,658. 35 Claims. (Cl. 84—314.)



7. A chord control device for stringed instruments, said device comprising a bank of chord selector plates, said plates being individually adapted to control the setting of a musical chord and having each a rigid finger piece disposed in a different position whereby the plates may be independently manipulated, the finger pieces forming virtually a keyboard.

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1,692,561. EJECTOR FOR COIN-HANDLING MACHINES. AXEL MONSON, Chicago, Ill., assignor to Universal Stamping & Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 10, 1927. Serial No. 211,955. 11 Claims. (Cl. 133—5.)

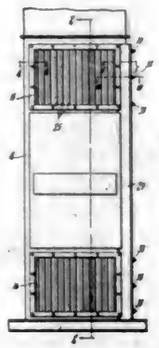


1. The combination with a coin handling mechanism having a magazine provided with an outlet, of an ejector comprising an arm movable transversely to said outlet, a shoulder on said arm adapted to engage the rim of a coin supported in said outlet, and a finger projecting beyond said shoulder and having a tip for engagement with

the lower face of the coin, said tip being offset from said finger for holding the coin out of engagement with the greater part of said finger.

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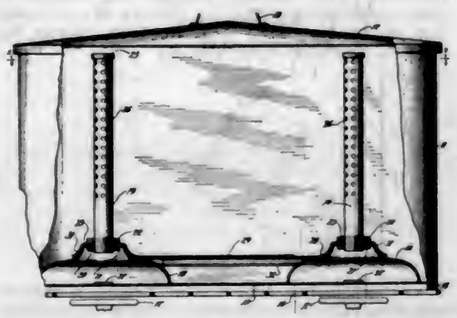
1,692,562. PLATE AIR HEATER. CHARLES D. MOSHER, Hyde Park, Mass. Filed Dec. 31, 1927. Serial No. 243,895. 5 Claims. (Cl. 257—245.)



1. An air heater of the plate type, comprising a heat-conducting casing adapted to receive hot gases at one end and discharge the same at the opposite end, and having side openings at its end portions, a group of air chambers extending side by side lengthwise of the casing, each chamber including a pair of parallel rectangular plates united at their edges to form a thin air passage which is oblong in cross section, one longitudinal edge of the chamber having at one end portion an air inlet port registering with one of the casing openings, and at its opposite end portion an air outlet port registering with the other casing opening, and attaching means adapted to detachably secure the chambers to the casing, the form of the chambers and the attaching means permitting the reversal of the chambers end for end, the chambers being provided with filling members surrounding the ports and formed to collectively close the casing openings around the chambers and space the chambers apart, the arrangement being such that the casing is adapted to conduct hot gases in one direction between the chambers, while the chambers conduct air in the opposite direction from the inlet to the outlet port.

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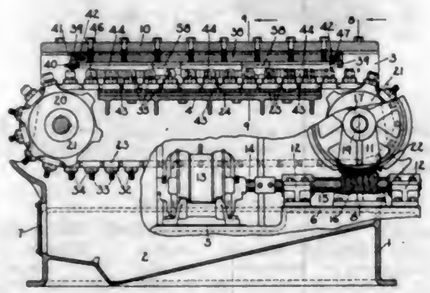
1,692,563. WASHING DEVICE. ALFRED C. MURR and FRANK L. CURRAN, Chicago, Ill. Filed Nov. 24, 1924. Serial No. 751,772. 2 Claims. (Cl. 68—30.)



1. A washing device adapted to be inserted in a wash boiler, comprising, two hollow members, each having an open mouth adapted freely to rest on the bottom of the tub, the upper portions of said members being perforated, a tube having a threaded end inserted in the perforation of each member, two sheet metal members, each having an aperture adapted to register with the mouth of the tubular member and nuts threading on said tube and maintaining the tube, the sheet metal members and the tubular members in assembled relation, said sheet metal members being arranged in overlapping relation between said hollow members to provide a clothes support.

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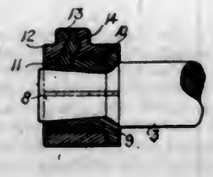
1,692,564. BROACHING MACHINE. JOHN OAKLEY, Springfield, Mass., assignor, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1926. Serial No. 137,014. 2 Claims. (Cl. 90—33.)



1. In a broaching machine, a broach holder having a longitudinal dove-tail slot therein, and provided with end lugs, a bolt in one of said lugs, and broaches and spacers adapted to fit within said slot and be held at the ends between one of said lugs and said bolt in the other of said lugs.

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1,692,265. TIE-ROD FASTENING. STEPHEN PAUL, Lansing, Mich., assignor of one-half to Samuel H. Davis. Filed May 21, 1926. Serial No. 110,769. 4 Claims. (Cl. 287—52.)



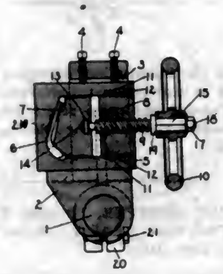
3. In combination with a tapering rod end, the tapering portion being largest at the end of the rod, a composite sleeve having a grooved part, an external sleeve provided with a passage registering with the said groove, a locking member engaging the said passage and groove, and means for retaining the said member in place.

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1,692,566. WORK HOLDER. JULIAN L. PERKINS, West Springfield, and HIRAM D. CROFT, Springfield, Mass., assignors, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass., a Corporation of Massachusetts. Original application filed Jan. 9, 1926, Serial No. 80,326. Divided and this application filed Aug. 17, 1926. Serial No. 129,701. 3 Claims. (Cl. 90—59.)

1. A work holder, of the class described, comprising a carrier having a top, bottom, and sides, and an opening therethrough from front to back, a female clamping block receivable in said opening, said block having a part at the rear end to support the work, and an opening through the sides and front end, means to secure said block in said carrier, a bearing block in said first-named block, and provided with means to hold said bearing block against

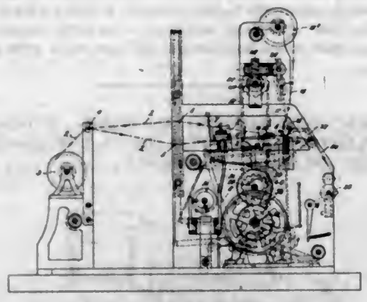




forward and backward movement, an operating screw in threaded engagement with said bearing block, and a male clamping block in said female clamping block, in front of said work-supporting part, said screw also being in engagement with said male clamping block and adapted when rotated to actuate said male clamping block toward or away from said work-receiving parts.

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1,692,567. MEANS FOR PRODUCING A FABRIC BY COMBINED KNITTING AND WEAVING. FRIEDRICH HUGO PEUCKERT, Dresden-Kaditz, Germany, assignor to Edwin Wildt, Leicester, Great Britain. Filed May 1, 1926, Serial No. 106,175, and in Germany Dec. 24, 1925. 6 Claims. (Cl. 139—1.)



1. In a loom, a lay, means for operating said lay so as to effect a partial beating-up of the weft threads, reed dents adapted to enter the shed from between the warp threads, means for operating said dents so as to complete the beating-up, knitting needles arranged under the beating-up point of the loom, means for reciprocating said needles through the warp so as to form stitches around the weft threads, thread guides for the knitting needles arranged above the beating-up point, and means for moving said guides so as to feed the threads to the needles and change the threads over from one needle to another so as to enmesh the warp in the stitches.

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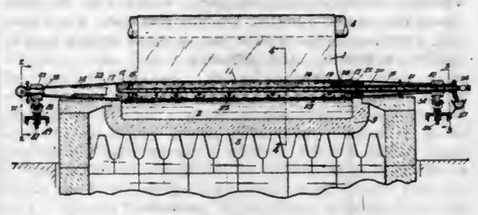
1,692,568. FURNITURE BRACE. GEORGE W. L. PRETTYMAN, Bergenfield, N. J. Filed Aug. 8, 1925. Serial No. 48,932. 3 Claims. (Cl. 155—197.)

1. A furniture bracing device comprising tension elements, an adjustable coupler member therefor, comprising a coupler shank having its opposite end portions reversely threaded and having an intermediate shoulder portion for the engagement of a manipulating tool, nuts threaded to the shank end portions, connector members fitted to the shank inwardly of the nuts, said connector members being formed of stamped metal with their outer portions bending outwardly in angular relation to the body thereof and having their opposite sides slotted to form key shoulders for securing engagement with the tension elements in position whereby the latter are positioned to operate as locks for the nuts, substantially as described.



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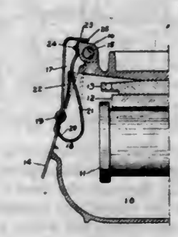
1,692,569. SHEET-GLASS-DRAWING APPARATUS. JOSEPH A. REECE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 30, 1923. Serial No. 677,658. 18 Claims. (Cl. 49—17.)



1. In an apparatus for drawing sheet glass, a pair of rotatable cylindrical coolers at opposite sides of the sheet, each rotary cylindrical cooler, provided with a longitudinally fluted outer surface, which is arranged out of contact with the glass.

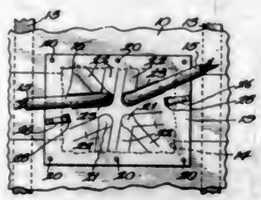
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1,692,570. JOURNAL BOX. FREDERIC O. REEMER, Chicago, Ill. Filed Aug. 3, 1925. Serial No. 47,863. 4 Claims. (Cl. 308—47.)



4. As an article of manufacture, the combination of a journal box lid adapted to be hinged to a journal box, a spring bent to form a loop with arms of unequal length, and means for securing the shorter arm to the lid adjacent to the bend of the loop, the longer arm extending upwardly in spaced relation to the lid and having a lug engaging surface adjacent to its free end, and the shorter arm extending upwardly between the lid and the longer arm and adapted to bear at its free end against the intermediate portion of the longer arm.

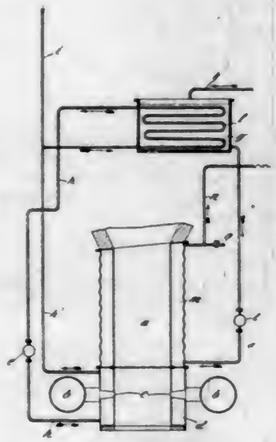
1,692,571. FLOOR PLATE AND HANGER. WILLIAM R. REIN, Chicago, Ill. Filed Apr. 16, 1926. Serial No. 102,592. 6 Claims. (Cl. 247—21.)



1. A closure member of plate like formation having a series of apertures therein and slots radiating from each aperture in combination with a knockout closure for each aperture and a bendable closure for each slot formed from and attached to said plate.

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1,692,572. PRODUCER OR SHAFT FURNACE. JAMES WILSON REEER, London, England, assignor to Woodall-Duckham (1920) Limited, London, England. Filed Jan. 25, 1927, Serial No. 163,514, and in Great Britain July 7, 1926. 4 Claims. (Cl. 122—6.)
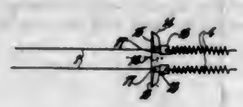


1. A method of operating a producer or shaft furnace having a jacket comprising two superposed sections and blast nozzles extending through the lower section, which comprises supplying water under high pressure to the upper section of the jacket and supplying water under low pressure to the lower section of the jacket.

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1,692,573. VACUUM ELECTRIC-TUBE DEVICE. ERNEST YEOMAN ROBINSON, Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited, a British Company. Filed Oct. 22, 1924, Serial No. 745,194, and in Great Britain Nov. 9, 1923. 3 Claims. (Cl. 250—27.5.)

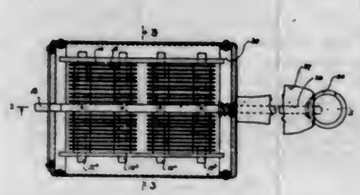
1. For a vacuum electric tube device, a cathode comprising two substantially parallel filament arms, two lead-in members to which said filament arms at one end are respectively secured, an electrically conducting elongated member secured to the cathode at right-angles to the arms at the other end, said member, when the cathode is heated



being flexible in the longitudinal direction of the cathode but fixed length in a direction transversely of the cathode whereby it maintains the space relationship of the arms thereof, and resilient means for placing said filament arms in tension.

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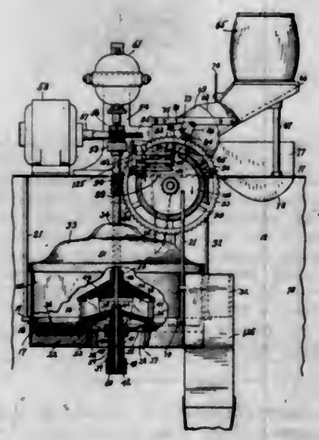
1,692,574. MEAT CHOPPER. ROBERT ROESSLER, Hoboken, N. J. Filed Sept. 22, 1927. Serial No. 221,274. 3 Claims. (Cl. 146—210.)



1. In a meat chopper the combination comprising a central rod, pins arranged in the same plane perpendicularly to and equidistantly on both sides of aforesaid rod, a plurality of safety razor blades arranged on said frame parallel to and in a short distance from each other, means holding said blades on aforesaid pins, an upper basket detachably arranged on aforesaid holding means, a lower basket, surrounding the aforesaid members, rotatably secured to aforesaid rod, and a handle slidably connected with aforesaid rod.

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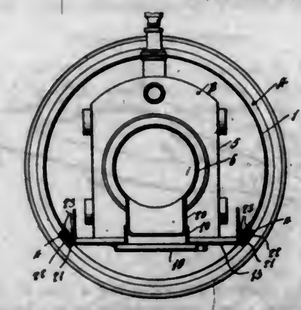
1,692,575. CORN-POPPING MACHINE. WILLIAM D. ROOT, Cleveland, Ohio. Filed May 19, 1927. Serial No. 192,699. 31 Claims. (Cl. 53—4.)



1. In a corn popping machine, a popping chamber, and pneumatic means within said chamber for discharging the corn.



1,692,576. EXPANSION MEANS FOR FURNACES. MORGAN M. ROTE, Sunbury, Pa., assignor of one-half to Charles J. Reitz, Sunbury, Pa. Filed Apr. 26, 1928. Serial No. 273,031. 1 Claim. (Cl. 126—114.)



In a furnace structure, a casing, a heating unit in the casing, the casing and unit having returned flanges on their meeting edges and channeled slide members engaging said flanges to hold the heating unit in the casing and permit relative expansion of said parts.

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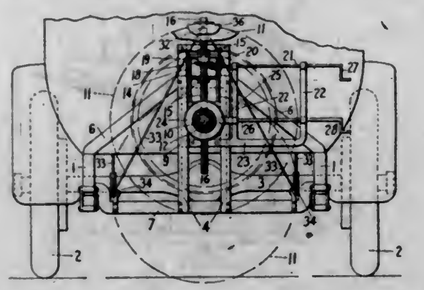
1,692,577. EMERGENCY REPAIR LINK. ROBERT R. ROTH, Thomas, W. Va. Filed Jan. 6, 1927. Serial No. 159,416. 1 Claim. (Cl. 59—85.)



A link of the character described, comprising a body having loops extending from the opposite ends thereof, said loops being in planes at other than right angles to one another and having ends the prolongation of which overlie one another when the link is open, said ends being in abutment when the link is closed.

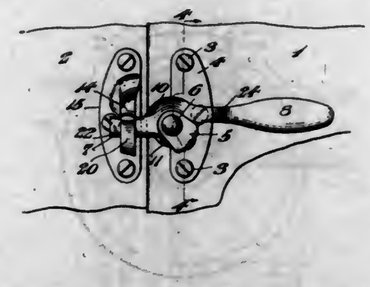
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1,692,578. PARKING DEVICE FOR AUTOMOBILES AND THE LIKE. INGEMAR KRISTOFFER RYSTEDT, Dayton, Ohio. Filed Mar. 24, 1924. Serial No. 701,348. 16 Claims. (Cl. 180—1.)



1. The combination with an automobile comprising a frame, an axle having movement toward and from said frame, and wheels carried by said axle, of a supporting structure mounted on said frame and having means for rotatably supporting a spare wheel on an axis transverse to said axle, means for actuating said wheel supporting means to move said spare wheel into engagement with the ground and to cause the same to lift said frame, and means connected with said supporting structure for causing said axle to move with said frame when the latter is elevated by said spare wheel.

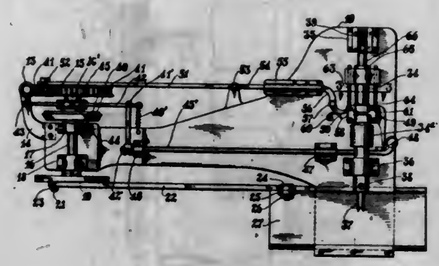
1,692,579. SPRING-CONTROLLED LATCH. THOMAS O. SCHRADER, Allentown, Pa., assignor to The Dent Hardware Co., Fullerton, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1928. Serial No. 269,316. 2 Claims. (Cl. 292—241.)



1. In a spring controlled latch, a supporting plate arranged for attachment to a door, a latch lever pivotally mounted thereon to swing in a plane parallel to the door, one end of which lever extends forwardly from the pivot point to form a keeper engaging nose while the opposite end of said lever is prolonged to form a handle, the longitudinal axes of said nose and handle being arranged in parallelism, a hub formed on said lever, an overhanging flange for said hub forming a spring chamber, a spring coiled around said hub within said overhanging flange, one end of said spring abutting against the end of said flange and the opposite end of said spring being fixedly secured to an extension of said supporting plate, a portion of the latter serving as an abutment for the bottom of said handle to retain the latter normally always in a horizontal position, and a keeper having its bottom edge inclined inwardly and downwardly for coaction with said nose.

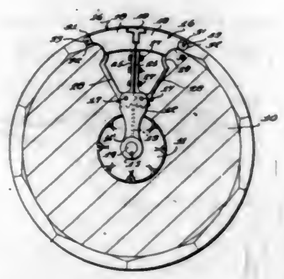
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1,692,580. MORTISING MACHINE. REYNALDO SÁNCHEZ, Monterey, Mexico. Filed Aug. 23, 1927. Serial No. 214,904. 1 Claim. (Cl. 144—69.)



In a chiseling machine, a rod slidably mounted and adapted for holding a cutting tool, a means for urging the rod forward for operating the cutting tool, a release member attached to the rod and formed with teeth on one side, a bell crank pivotally mounted and arranged for normally engaging the said teeth for restraining forward motion of the rod, a second rod engaging against the said bell crank, a third rod hinged to the second rod, and eccentrically connected with a driver wheel for motion to move the bell crank and release the cutting tool.

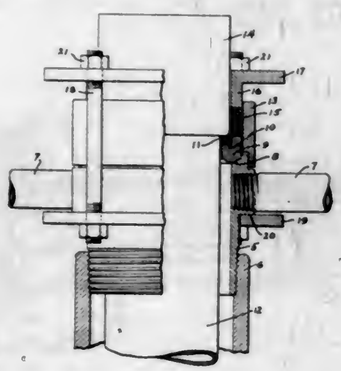
1,692,581. COUNTERBALANCED BAND WHEEL. WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed July 1, 1927. Serial No. 202,953. 7 Claims. (Cl. 74—71.)



1. A device of the character described comprising a rotatable member, a supporting arm carried by and spaced from said member, counter-balancing means pivotally mounted on said supporting arm, said counter-balancing means being adapted to swing in a plane parallel to the plane of said rotatable member, and means for securing said counter-balancing means in operative or counter-balancing and inoperative or neutral positions.

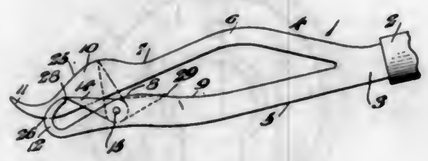
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1,692,582. OIL-WELL PACKING HEAD. WILLIAM D. SHAFFER, Brea, Calif., assignor of one-third to E. J. Williams, Whittier, Calif., and one-third to George S. Fosnaugh, Compton, Calif. Filed Oct. 10, 1925. Serial No. 61,682. 2 Claims. (Cl. 166—14.)



2. A casing head construction comprising a tubular body member adapted to be detachably secured to the upper end of a string of well casing, said body member being provided with an internal seat adjacent its upper end, a metallic supporting ring disposed upon the seat of said body member, a circular sleeve detachably secured to the upper end of the body member, a packing ring disposed within said sleeve to pack the space between the tubing coupling and the circular sleeve, a gland follower disposed upon the packing ring, and means to move the gland follower to compress the packing ring.

1,692,583. RUNNER-MENDER NEEDLE. JOSEPH E. SHEPPERACK, Mont Clare, Pa., assignor of one-fourth to John Di Clo and one-fourth to Harry C. Simons, Norristown, Pa. Filed Aug. 3, 1928. Serial No. 297,145. 5 Claims. (Cl. 66—117.)



1. A runner mender for repairing a run in a knitted fabric, comprising a rear arm terminating in a hook adapted to be inserted through a loose loop in said run and having a pivotal latch coacting therewith, and a front arm having a guard for said latch to prevent the latter from engaging the cross threads in said run, said front arm extending beyond said hook to guide the latter between said cross threads.

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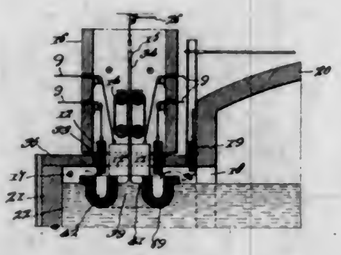
1,692,584. BRUSHING LACQUERS. STANLEY D. SHIPLEY, Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 28, 1925. Serial No. 59,164. 6 Claims. (Cl. 134—79.)

6. A nitrocellulose brushing lacquer, consisting of a nitrocotton base, and a liquid vehicle comprising the following ingredients combined in substantially the proportions stated

| | Per cent. |
|---|---|
| Ethyl glycol | 40 |
| Gum solution | 25 |
| Gasoline | 35 |

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1,692,585. METHOD OF AND APPARATUS FOR DRAWING GLASS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed Jan. 10, 1918, Serial No. 211,266. Renewed Aug. 2, 1926. 43 Claims. (Cl. 49—17.)

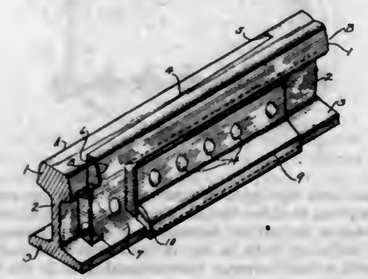


14. In an apparatus for drawing sheet glass, the combination of a furnace having molten glass therein, a segregating member placed in the molten glass for creating a restricted area from which the sheet is to be drawn, means for drawing the sheet from said restricted area, independent adjustable shields surrounding said restricted area for locally controlling the temperature of the glass from which the sheet is drawn whereby said restricted area may be kept at a uniform drawing temperature throughout, and means for controlling the temperature of the segregating member at diametrically opposite points and in line with the sheet being drawn whereby the glass forming the edges of the sheets is caused to adhere to said segregating member and the full width of the sheet maintained thereby throughout the drawing operation.



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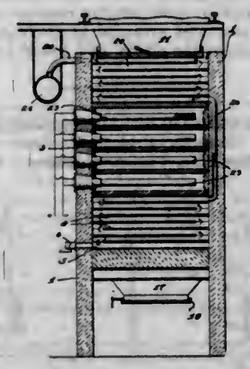
1,692,586. MORTISE JOINT. CHARLES E. SKAGGS and BYRON E. LOGAN, Bay Point, Calif. Filed Jan. 25, 1927. Serial No. 163,343. 4 Claims. (Cl. 238—287.)



1. A device of the type described, comprising two rail sections having mitered ends, reinforcing means for the rail heads disposed at the ends of said sections and being integral with said sections, angle bars cooperating with said reinforcing portions for preventing lateral movement of said rail sections with respect to each other, said angle bars also aiding in reinforcing the heads of said sections.

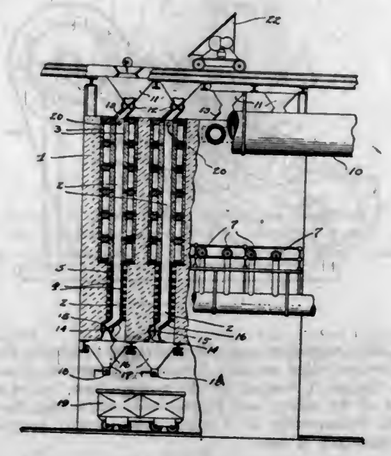
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1,692,587. APPARATUS FOR REDUCING METALLIC OXIDES. WILLIAM H. SMITH, Detroit, Mich., assignor to General Reduction Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 17, 1926. Serial No. 88,774. 14 Claims. (Cl. 263—29.)



14. Iron ore reducing apparatus, comprising the combination of a plurality of retorts arranged in a row, said retorts being relatively long and narrow in cross section, means between each of the retorts to provide preheating, reducing the cooling zones, and heating means to heat each reducing zone to a substantially uniform reducing temperature.

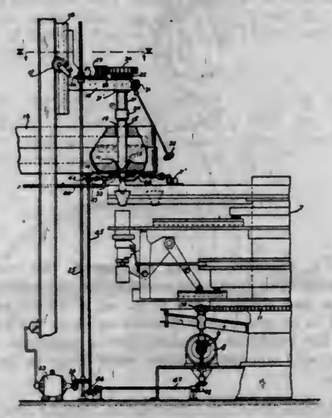
1,692,588. METHOD OF REDUCING METALLIC OXIDES. WILLIAM H. SMITH, Detroit, Mich., assignor to General Reduction Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Feb. 17, 1926, Serial No. 88,774, and in Canada June 28, 1926. Divided and this application filed Nov. 26, 1926. Serial No. 150,715. 14 Claims. (Cl. 75—14.)



1. The method of reducing iron ore, or similar metallic oxides which consists in continuously passing the ore and its reducing agent through a reducing zone of fixed temperature, and absorbing the heat from the reduced iron to pre-heat the incoming ore.

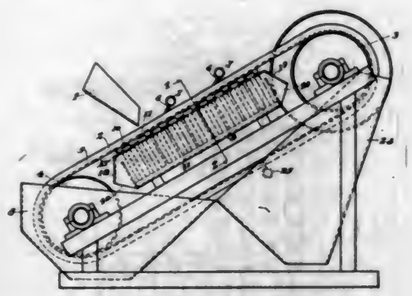
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1,692,589. METHOD AND APPARATUS FOR PRODUCING CHARGES OF MOLTEN GLASS. LEONARD D. SOUBIER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 22, 1926. Serial No. 96,497. 13 Claims. (Cl. 49—5.)



2. The method of producing formed charges of molten glass which comprises causing the glass to flow from a supply body through an outlet orifice, applying pneumatic pressure to a surface of the glass beneath said orifice, confining the pressure to a narrow annular surface between the main body of the issued glass and the walls of the orifice, and periodically severing the column of glass below the point of application of pneumatic pressure, to form charges.

1,692,590. METHOD OF AND APPARATUS FOR MAGNETIC SEPARATION. ROSWELL H. STEARNS, Milwaukee, Wis., assignor to Magnetic Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed May 28, 1924. Serial No. 716,416. 20 Claims. (Cl. 209—226.)



1. The method of magnetic separation consisting in moving finely divided material containing magnetite in a shallow stream of flowing water in opposition to the movement of the water, and magnetically attracting the magnetite transversely in a plane substantially parallel to the direction of flow.

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1,692,591. DIVING EQUIPMENT. HERMANN STELZNER, Lubeck, Germany, assignor to Alexander Bernhard Dräger, Lubeck, Germany; Elfriede Dräger, née Stangen, executrix of said Dräger, deceased. Filed Sept. 27, 1927, Serial No. 222,274, and in Germany Oct. 11, 1926. 2 Claims. (Cl. 61—70.)

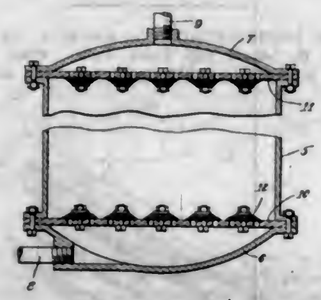


1. In a dressless diving equipment, the combination with a breathing apparatus arranged to be positioned about the back and chest of the diver, of a weighting element adapted to be worn by said diver so as to act at approximately the height of the shoulders to overcome the buoyancy of said apparatus when said diver is in stooping position.

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1,692,592. WATER-SOFTENER INJECTOR. CHARLES A. STICKNEY, Rockford, Ill., assignor to Stickney Hydraulic Co., Rockford, Ill., a Corporation of Illinois. Filed Apr. 18, 1927. Serial No. 184,519. 3 Claims. (Cl. 210—24.)

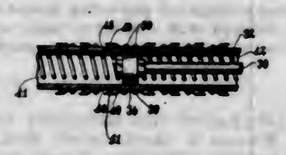
1. A liquid injector or ejector nozzle, such as adapted for use in distributing the water flow through a water softener, the said nozzle comprising a series of disks of graduated sizes one superposed on another in the order of size so that the peripheral portion of each disk is disposed above the marginal portion of the top of the next larger disk, or beneath the bottom thereof, as the case may be, the peripheral portion of each disk being offset in the form of a flanged rim between which rim and the next



adjoining disk an interstice is arranged to be formed, means serving to space the disks according to the predetermined size of interstices desired, and means for supporting the stack of disks in the relation described and provided with a fluid passage communicating with the interstices between the disks.

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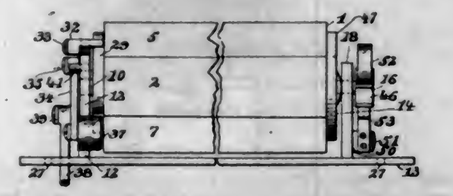
1,692,593. SHOCK ABSORBER FOR MOTOR CYCLES. LOUIS SZABÓ, Montreal, Quebec, Canada. Filed Jan. 16, 1928. Serial No. 247,138. 3 Claims. (Cl. 208—97.)



1. In a device of the class described, a tubular member provided with closed ends and with a slidable piston having a piston rod extending thru one of the ends, expansion springs acting on opposite sides of the piston, normally holding the piston in an intermediate position in the tubular member, said tubular member being formed with rows of apertures arranged in graduated order and on opposite sides of the piston, and means for closing the apertures.

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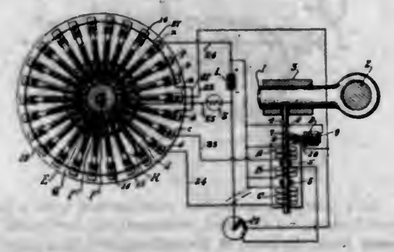
1,692,594. ROTATABLE ADVERTISING DEVICE. WILLIAM J. TANNER, Bridgeport, Conn. Filed July 13, 1925. Serial No. 43,128. 7 Claims. (Cl. 40—69.)



1. An advertising device comprising a supporting base, standards thereon, a display reel having end journals detachably mounted in the standards, a ratchet plate adjustably secured to one end of the reel, a pivotally supported dog adapted to engage the teeth of the ratchet plate and check a reverse movement of the reel, and a pivotally supported pawl carrying lever for effecting a step by step rotation of the reel.



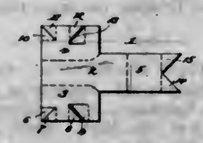
1,692,595. LOCKING MECHANISM. EDWARD H. THOMAS, East Orange, N. J. Filed July 27, 1926. Serial No. 125,223. 8 Claims. (Cl. 70—50.)



1. In a locking mechanism, the combination, with a locking bar having a notch, a latch bar arranged to enter said notch, means for forcing said latch bar into the notch, electro-magnetic means arranged to withdraw said latch bar from said notch, and a pair of solenoid arranged when both are energized to retract the locking bar and when only one is energized only to stress the locking bar without retracting it, of a key-actuated series of switch levers, circuit connections between three of said switch levers and the said electro-magnetic means and the said solenoids, respectively, a source of electric energy for energizing said circuits whereby when said three switch levers are operated to close their respective circuits the latch bar will withdraw from the notch in the locking bar and the latter will be retracted, and a circuit arranged to be closed by another switch lever to short circuit the said source of energy.

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1,692,596. FASTENER FOR CRATES. JOSEPH O. TURNER, Winston-Salem, N. C., assignor to Mengel Company, Louisville, Ky. Filed Aug. 10, 1926. Serial No. 128,453. 5 Claims. (Cl. 217—22.)

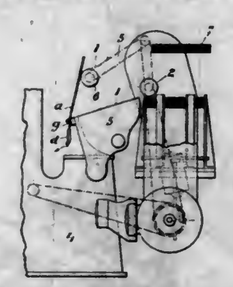


1. As a new article of manufacture, a fastener for securing the adjacent edges of two abutting members standing at right angles to each other, said fastener being formed from a single piece of sheet metal, comprising a body portion, two flanges depending from opposite sides of said body portion adjacent an unobstructed edge thereof, a third flange spaced from the other flanges by an elongated portion of the body and depending therefrom, said flanges being notched inwardly of their edges with the pointed portions bent inwardly therefrom producing spurs adapted to be forced into the elements to be secured together, and to draw said members into closely engaging aligned relation.

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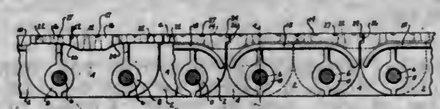
1,692,597. SHEET FEEDING-AND DELIVERING APPARATUS FOR PLATEN PRINTING PRESSES. KARL VICUM, Erfurt, Germany, assignor to Georg Spiess, Leipsic, Germany. Filed Nov. 29, 1927, Serial No. 236,504, and in Germany Dec. 6, 1926. 4 Claims. (Cl. 101—287.)

1. A sheet feeding and delivering apparatus for platen printing presses, comprising in combination with the platen, hollow grippers pivotally mounted on said platen for holding the sheet during the forward movement of the platen, means for producing vacuum in said hollow gripper when said platen is returning into its initial position to lift the printed sheet from the platen, and a rotatable suction device for receiving the printed sheet from the gripper and for conveying the printed sheet with the printed side uppermost.



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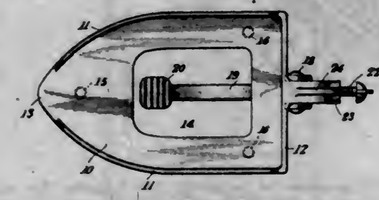
1,692,598. CHAIN GRATE. JOHN VAN BRUNT, Flushing, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed July 19, 1923. Serial No. 652,514. 5 Claims. (Cl. 110—40.)



2. A chain grate comprising a plurality of rows of links, the links of each row being arranged end to end, the links of the several rows being arranged side by side in staggered relation with their ends pivotally connected, and adjacent links of adjacent rows having one flange extending longitudinally thereof and the other a recess for receiving the flange, the flange being spaced from the wall of the recess so as to enable air to pass upwardly between the flange and said wall, each of the links of alternate rows having one such flange on each side thereof and each of the links of the other rows having one such recess on each side thereof.

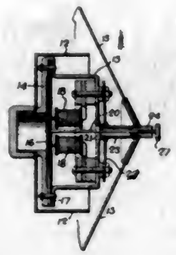
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1,692,599. FLATIRON SUPPORT. CARL E. WENZEL, Newark, N. J., assignor to Hedwig Mfg. Co., Newark, N. J., a Corporation of New Jersey. Filed Dec. 3, 1927. Serial No. 237,848. 1 Claim. (Cl. 68—27.)



A flat iron support comprising a plate shaped to receive a flat iron on its upper surface, guide means at the side edges of said plate, a single foot at the bottom of said plate centrally at the front thereof, a pair of feet at the rear corners, said feet being longer than the first foot, a lug depending from the rear of said plate, an arcuate lever pivoted to said lug, a serrated plate at the free end of said lever to contact the bottom surface of a support on which said feet rest, and means for manually actuating said lever.

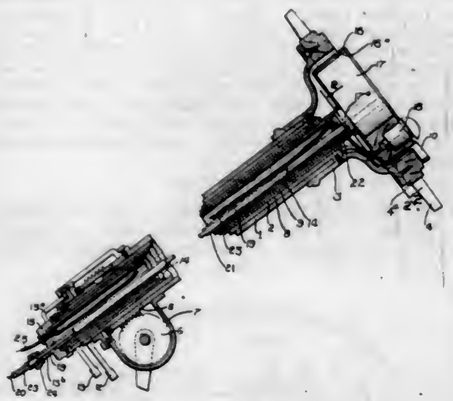
1,692,600. LOUD-SPEAKER UNIT. ROBERT B. WHEELAN, New York, N. Y. Filed June 23, 1926. Serial No. 117,923. 19 Claims. (Cl. 179—115.)



1. A reproducing unit, including an electromagnet, sound-reproducing means including a resilient armature adapted normally to extend in contact with the poles of said magnet, means for moving said armature to a position at which it is spaced from said pole pieces, a diaphragm, and a resilient element for operatively supporting said diaphragm disposed in operative conjunction with said means.

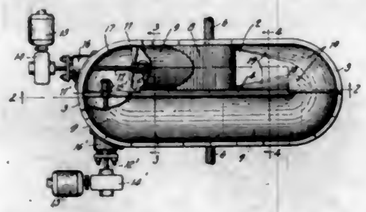
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1,692,601. SPEEDOMETER MOUNTING FOR VEHICLES. WILLIAM H. WHEELER, San Diego, Calif. Filed Sept. 20, 1926. Serial No. 136,505. 4 Claims. (Cl. 180—78.)



1. In a speedometer mounting for vehicles, the combination with a steering post and a steering wheel mounted thereon, of a supporting tube extending through said post and non-rotatably fixed relative thereto, said tube having an enlarged supporting portion at the end contiguous to said wheel, said supporting portion being spaced from said wheel, a speedometer mounted on said supporting portion, a small rigid shaft revolubly mounted within said tube and operatively connected at one end to the back side of said speedometer, and a flexible cable directly connecting the end of said shaft extending beyond said tube to a revolving part of the vehicle.

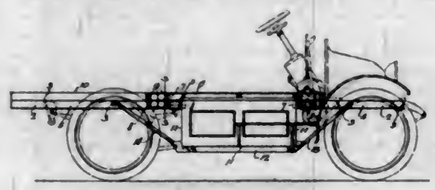
1,692,602. BEATING ENGINE. GEORGE STANFORD WITHAM, Jr., Hudson Falls, N. Y. Filed Dec. 13, 1926. Serial No. 154,508. 12 Claims. (Cl. 92—24.)



1. In a beating engine, the combination with a roll, of means forming an enclosed, substantially horizontal stock passage from the rear of the roll around to a point near the front thereof, and means within said passage for forcing the stock therethrough.

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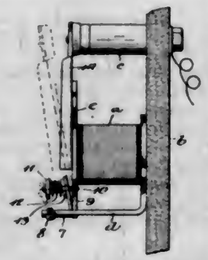
1,692,603. CHASSIS FOR MOTOR VEHICLES. EDDY R. WHITNEY, Philadelphia, Pa., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 5, 1924. Serial No. 736,049. 6 Claims. (Cl. 180—65.)



1. In a chassis frame, the combination with side beams comprising each a front section, a rear section aligned with and spaced apart from the front section, and an intermediate section connecting said front and rear sections and offset therefrom both laterally and upwardly, and a body-supporting beam mounted over the tops of said front and rear sections and bridging the space therebetween.

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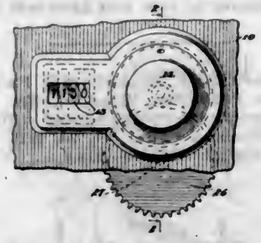
1,692,604. SWITCH MECHANISM. GEORGE H. WHITTINGHAM, Baltimore, Md., assignor to Monitor Controller Company, Baltimore, Md., a Corporation of Maryland. Filed Apr. 26, 1924. Serial No. 709,163. 3 Claims. (Cl. 200—87.)



1. An electro-magnetic switch comprising a magnet, a sheet metal support forming part of the magnetic circuit of the magnet and having a transverse notch, an armature member fulcrumed on the bottom wall of the notch and interlocking with the end walls of the notch, a locking member detachably secured to said support and having a part extending close to the armature and retaining the latter in the notch and a part extending longitudinally of the armature from the support, and a spring interposed between said latter part and a part on the armature.



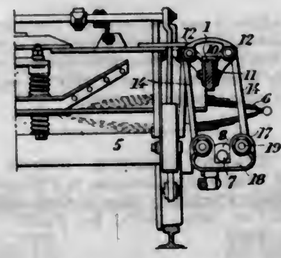
1,692,605. CONTROL KNOB AND INDICATOR. ROBERT E. WOLF, Chicago, Ill. Filed May 8, 1926. Serial No. 107,733. 6 Claims. (Cl. 40—68.)



1. In a radio apparatus, a tunable element having a shaft, a knob, a speed reducing train connecting said knob and said shaft, an indicating device independent of said shaft, and a speed multiplying train connecting said knob and said indicating device whereby said knob actuates said element at a speed lower than its own and said indicating device at a speed higher than its own so that a small movement of said element corresponds to a large movement of said indicating device.

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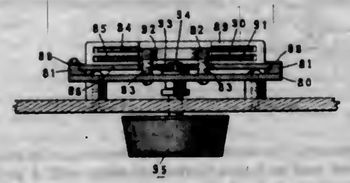
1,692,606. CAR TRUCK. JACQUES WORMS, Paris, France, assignor to The J. G. Brill Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 19, 1927, Serial No. 241,086, and in France Dec. 30, 1926. 5 Claims. (Cl. 105—192.)



1. In combination with a truck frame including sidebars, equalising rods disposed beneath said side-bars and disposed in offset relation thereto, and means for suspending the levers from the side-bars comprising structure in the form of a changeable parallelogram, one end of which is pivotally connected to said side-bars and the other end of which is pivotally connected to the end of the said rods.

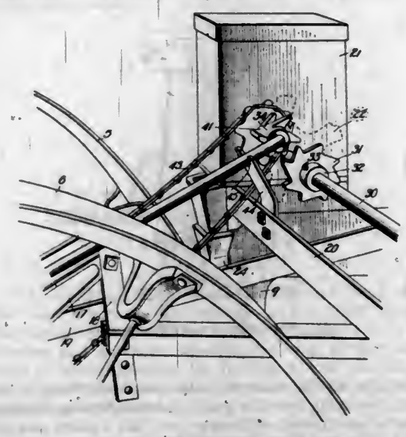
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1,692,607. VARIABLE CONDENSER. WILSON AULL, Jr., Astoria, N. Y. Filed Sept. 1, 1926. Serial No. 132,974. 7 Claims. (Cl. 175—41.5.)



1. A condenser comprising an outer bearing ring, a substantially rigid rotor plate having its outer edge supported by said bearing ring and its center free and a stator plate supported from said outer bearing ring but insulated therefrom.

1,692,608. PLANTER. SILAS E. BAILOR, Dill, Okla. Filed July 20, 1927. Serial No. 207,185. 6 Claims. (Cl. 111—21.)

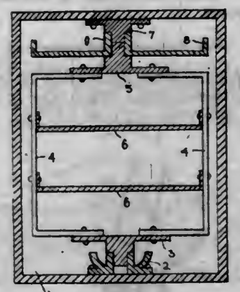


1. In a device of the character described, including a wheel-supported frame, a standard pivotally connected to said frame, and a seed-delivery element carried by the standard, means carried by the frame for actuating the seed-delivery element including a pivotal gear-supporting arm, means carried by the frame for lifting said standard, and means for removing said actuating means from actuating position including a fulcrum member supported by the standard, and engageable with said arm upon lifting of the standard.

6. In a planter comprising a wheel-supported frame, a pair of seed hoppers pivotally connected thereto, a rotatable dropper disk in each hopper, a shaft connecting them, and a gear on the shaft, an arm pivotally mounted on the frame, a plurality of gears carried by the arm engageable with said shaft gear for rotating the same, means for fixing the gear on the shaft in alignment with any one of the gears on the arm, means for rotating said plurality of gears, and means including said gear rotating means for urging the gears on the arm into mesh with the gear on the shaft.

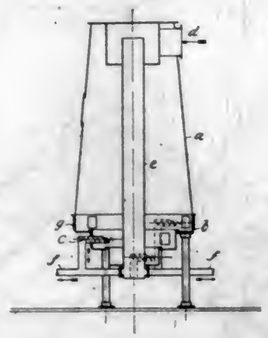
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1,692,609. ANTPROOF CUPBOARD. BERNARD S. BASSETT, San Jose, Calif. Filed June 7, 1926. Serial No. 114,350. 2 Claims. (Cl. 45—71.)



1. A cupboard having a plurality of horizontal shelves, metal standards supporting said shelves, and top and base members affixed to said standards having slots to permit of the lateral adjustment of said standards for the accommodation of sets of shelves of different dimensions.

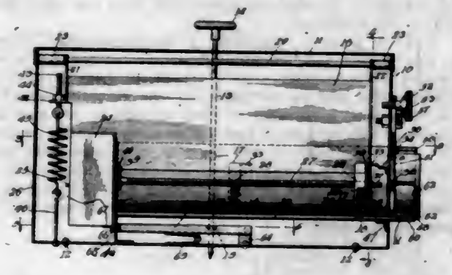
1,692,610. SILO. EMIL BARTHELMESS, Dusseldorf-Oberkassel, Germany. Filed Aug. 21, 1926, Serial No. 130,727, and in Germany Aug. 22, 1925. 5 Claims. (Cl. 214—17.)



1. A silo of the character described comprising a bell-shaped, upwardly tapering single chamber having discharge apertures distributed uniformly over the bottom and disposed at different distances from the center.

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1,692,611. RECORDING MECHANISM. JOHN B. BASKERVILLE, Roanoke, Va., assignor to Impactograph Corporation, Roanoke, Va., a Corporation of Virginia. Filed Dec. 18, 1924. Serial No. 756,668. 8 Claims. (Cl. 234—1.)



1. In a recording mechanism, the combination with a support for a record sheet; of a swingable member cooperating with said support for movement transversely thereto; and means for progressively feeding said member lengthwise of said support.

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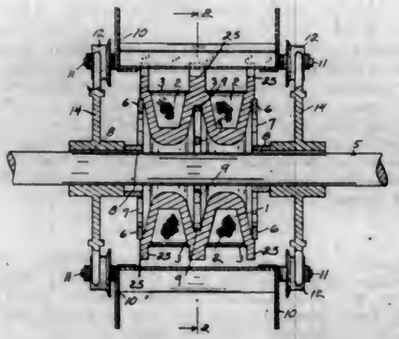
1,692,612. ILLUMINATED POINTING HEAD. LEMUEL BENNINGTON, Denver, Colo. Filed May 1, 1928. Serial No. 274,227. 7 Claims. (Cl. 40—126.)



1. An indicating device comprising an open V-shaped frame; a housing closing the open extremity of said frame; a light source in said housing adapted to illuminate the interior of said frame; transparent faces in said frame; a reflector in said housing adapted to direct light rays between said transparent faces; and a secondary reflector in said frame adapted to turn said light rays toward said faces.

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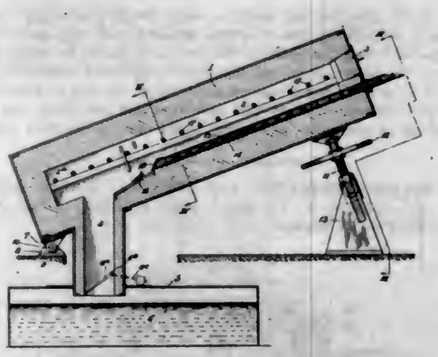
1,692,613. MAGNETIC PULLEY FOR PAN CONVEYERS. JOHN P. BETHKE, Milwaukee, Wis., assignor to Magnetic Separator Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1925. Serial No. 10,700. 18 Claims. (Cl. 209—218.)



1. In a magnetic pan conveyer, the combination with an apron composed of interconnected pans, of a magnetic pulley having pole pieces provided with surfaces corresponding substantially in contour and area with the registering surfaces of the pans passing thereover.

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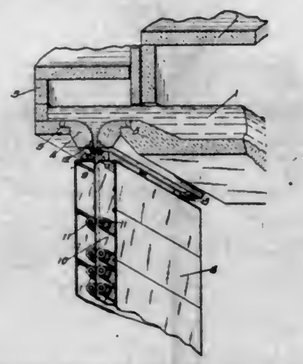
1,692,614. HEATING FURNACE. RICHARD E. BISSELL, Cleveland Heights, Ohio, assignor to Thompson Products, Incorporated, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 20, 1925. Serial No. 70,234. 12 Claims. (Cl. 263—6.)



1. A furnace for simultaneously heating a plurality of unit pieces, and having a heated chamber with a guideway therein at an angle to the horizontal and adapted to receive and guide the pieces, a discharge chute adjacent to the inner end of said guideway and within the heating chamber; and a slideway between the guideway and chute of greater angularity to the horizontal than the guideway and of greater length than the length of the unit piece being heated.



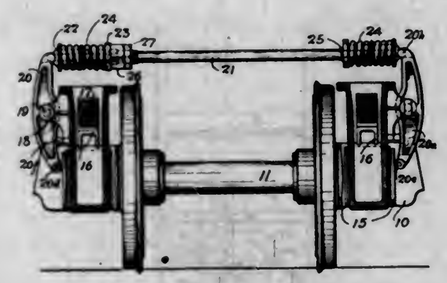
1,692,615. SHEET-GLASS DOWNFLOW APPARATUS. JAMES C. BLAIR, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 24, 1925. Serial No. 11,099. 3 Claims. (Cl. 49—17.)



2. In an apparatus for producing sheet glass, the combination of a container for molten glass provided with a submerged elongated discharge outlet wider at each end than at its center, and means below the outlet and adjacent the end portions thereof for engaging the edge portions of the sheet to hold the same to width.

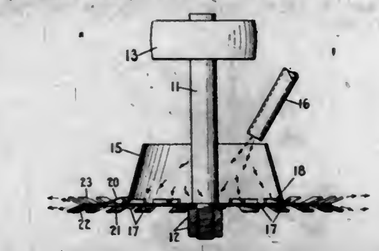
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1,692,616. LATERAL-MOTION DEVICE FOR LOCOMOTIVE DRIVING BOXES. JAMES G. BLUNT, Schenectady, N. Y. Filed Nov. 19, 1927. Serial No. 234,322. 4 Claims. (Cl. 105—222.)



1. In a locomotive of the outside bearing type, the combination of a plurality of pairs of driving wheels; an axle for each pair of wheels, having journals disposed outside of the wheels; a frame, comprising two side frame members supported by the journals; pedestals in said side frame members; driving boxes mounted on the journals and fitted in the pedestals, with the capacity of a limited lateral movement; a lever, fulcrumed at the outerside of each side frame member, and having a lower leg disposed below the fulcrum, adapted to bear on an adjacent driving box, and an upper leg disposed above the fulcrum; and means, associated with the upper legs of a pair of levers, disposed on opposite sides of the frame, said means being adapted to store sufficient power when one of the levers is tilted by an outward lateral movement of a driving box, to cause the tilted lever to restore the outwardly moved driving box to normal position, when the force causing such outward lateral movement is removed.

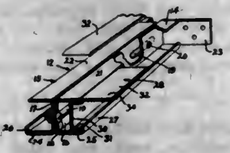
1,692,617. CENTRIFUGAL DISINTEGRATOR FOR LIQUIDS. WILLIAM SPENCER BOWEN, Westfield, N. J. Filed July 19, 1928. Serial No. 293,857. 12 Claims. (Cl. 259—96.)



1. A centrifugal disintegrator for liquids having in combination a rotatable disk member, and a liquid container centrally secured thereto for receiving the liquid to be disintegrated and provided adjacent the disk surface with a series of outlet openings for the liquid, and the said disk having openings therethrough located beyond a number of the said outlet openings.

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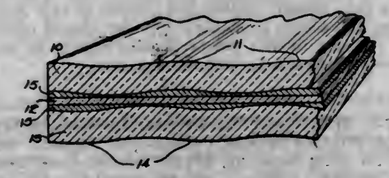
1,692,618. SLIDE FOR EXTENSION TABLES. CLAUDE E. BOWERS, Los Angeles, Calif. Filed Nov. 10, 1925. Serial No. 68,229. 1 Claim. (Cl. 45—115.)



An extension table slide comprising a guide bar including a pair of metal channel bars, means on the vertical webs of said channel bars for adjusting the bars longitudinally with respect to each other, the longitudinally extending edges of each of said bars having flanges extending therefrom, the flange of both bars extending in opposite directions, each of said bars having at one end thereof an attaching flange for rigidly securing the guide bar to the table frame, and a slide of channel form mounted to slide between the flanges of each metal bar, the upper flange of each channel slide extending beyond the longitudinal edges of the upper flanges of the metal guide bars, whereby the extension table top sections may be secured thereto to move therewith.

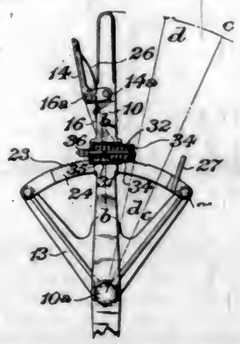
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1,692,619. LAMINATED GLASS AND PROCESS OF PRODUCING THE SAME. WILBUR F. BROWN, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 26, 1926. Serial No. 104,656. 6 Claims. (Cl. 49—81.)



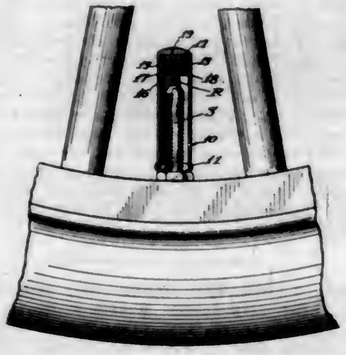
1. The process of producing laminated glass, consisting in uniting a plurality of sheets of glass having wave formations therein, in a manner that the formations in the sheets of glass extend in substantially the same direction in the finished laminated sheet.

1,692,620. METHOD OF AND APPARATUS FOR CONTROLLING THE CUT-OFF OF DISTRIBUTION VALVES OF LOCOMOTIVES. ALFRED W. BRUCE, New York, N. Y., and JOSEPH B. ENNIS, Paterson, N. J. Filed Apr. 5, 1927. Serial No. 181,100. 1 Claim. (Cl. 74—39.)




Distributing valve operating mechanisms, comprising, in combination with the reach rod and the hand lever operatively connected thereto, of a quadrant over which said lever plays, notches in the centre portion only of said quadrant, a latch carried by said lever to engage said notches, a handle for lifting said latch out of such engagement, a stop secured to one end of said quadrant, a socket carried by said lever adjacent the quadrant, a hollow piston slidable in said socket, a spring between the socket and piston ends, and means to limit the outward movement of said piston by said spring.

1,692,621. QUICKLY-DETACHABLE VALVE CAP. NELLIE L. BUCKMAN, Santa Ana, Calif. Filed Dec. 23, 1925. Serial No. 77,225. 3 Claims. (Cl. 152—12.)

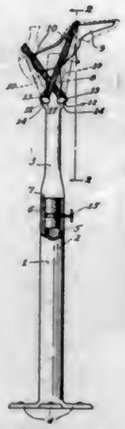


1. In a quickly detachable valve cap, a tubular member, a valve stem closure confined and slidable in said tubular member, said closure including a disc and integral resilient arms, and said tubular member having therein an annular recess engageable by said resilient arms.

1,692,622. MANUFACTURE OF CELLULOSE ACETATE. JAMES WILLIAM BULMER, Cullingworth, England. Filed Feb. 15, 1928, Serial No. 254,635, and in Great Britain Jan. 2, 1928. 1 Claim. (Cl. 260—101.)

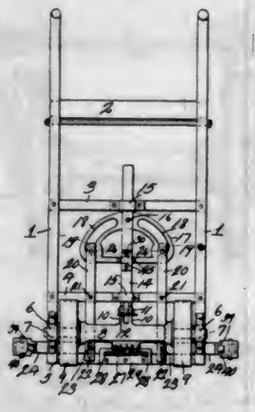
A process of preparing cellulose for acetylation which consists in mixing the cellulose with acetic acid of such strength that the acid crystallizes when cooled and then cooling the mixture until crystallization of the acid has occurred throughout the mass.

1,692,623. SHOE MAKING OR REPAIRING APPARATUS. SAMUEL W. BURTCHAELL, Oakland, Calif. Filed Sept. 27, 1927. Serial No. 222,241. 3 Claims. (Cl. 12—123.)



1. A shoe making or repairing apparatus comprising a jack member provided in its side wall near its upper end with a recess, one of the recess forming walls terminating in a lip overlapping the other in spaced relation, affording a contracted mouth for the recess.

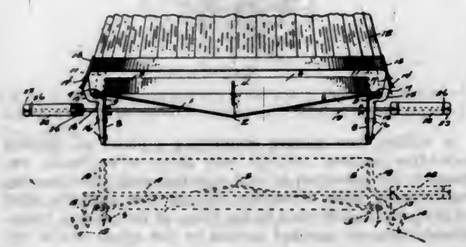
1,692,624. HAND TRUCK. JAMES AUGUST BYINGTON, Orlando, Fla. Filed Aug. 8, 1927. Serial No. 211,451. 5 Claims. (Cl. 214—65.5.)



1. The combination with a truck, an axle carried by said truck, ground engaging wheels carried by said axle, gripping bars slidably mounted in the lower end of said truck, of means for controlling said gripping bars comprising a cam member having arcuate cam slots, a vertically movable slide bar carried by the truck and to which the cam member is connected, substantially vertically disposed rock bars pivotally connected to the truck below the cam member, bearing members carried by the rock bars and disposed in the cam slots of the cam member, the lower ends of said rock bars being connected to the gripping bars.

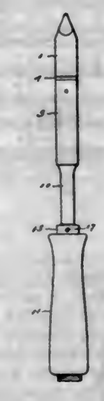


1,692,625. MEANS AND METHOD OF PACKING FRUITS, VEGETABLES, AND OTHER PRODUCTS. LUTHER HENRY CASKEY, Martinsburg, W. Va., assignor to Caskey Turn-Kwik Corporation, Martinsburg, W. Va., a Corporation of West Virginia. Filed Feb. 18, 1928. Serial No. 255,399. 16 Claims. (Cl. 226—17.)



2. A packing device of the type defined, comprising a support, and a handling device connected with the support and set off-center with respect to the center of dead weight of the load and support, thereby to automatically swing the load and support about the handling device to invert it when the same is lifted and thereby free to move.

1,692,626. ELECTRICALLY-HEATED IMPLEMENT HANDLE. CLARENCE M. CHAPMAN, Terryville, Conn., assignor to The Chapman Machine Company, Terryville, Conn., a Corporation of Connecticut. Filed Mar. 31, 1926. Serial No. 98,674. 5 Claims. (Cl. 219—26.)



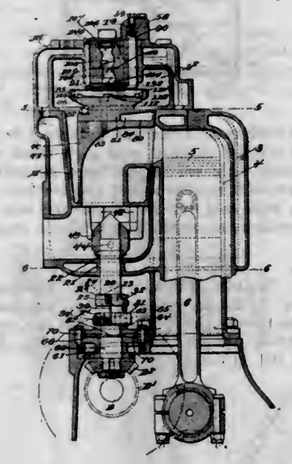
3. A handle for an electrically heated implement, said handle comprising a body of heat non-conducting material and having a central bore with a metallic bushing held against rotation in one end of said bore, said bushing having a socket at the outer end of the bushing, a tubular implement shank with a collar thereon, detachably fitted into said bushing and socket, means detachably fastening said collar in said socket, and an unexposed metallic ferrule surrounding but separated from said bushing, embedded in the end of the handle body whereby the metallic strengthening ferrule is heat insulated from the bushing, the socket, the shank, and the outer surface of the handle.

1,692,627. IGNITER. EDWARD FOSTER CLARK, North Attleboro, Mass., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass., a Corporation of Maryland. Filed Mar. 1, 1927. Serial No. 171,883. 3 Claims. (Cl. 67—7.1.)




3. In an igniter, a burner tube, having an interior bore, and a multiplicity of projections or depression of capillary dimensions, within the bore, to form connecting capillary spaces from end to end of the tube.

1,692,628. INTERNAL-COMBUSTION MOTOR. GUY B. COLLIER, Kinderhook, N. Y. Filed Dec. 2, 1925. Serial No. 72,653. 11 Claims. (Cl. 123—190.)

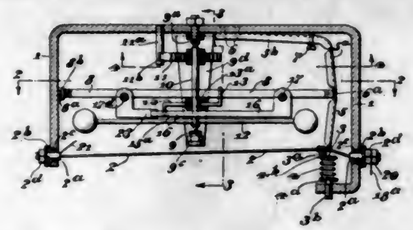


1. An internal combustion motor comprising a cylinder, a valve chamber adjacent the cylinder and communicating therewith, a conical valve in the chamber, means for rotating the valve, means for normally maintaining the valve on its seat governed in accordance with changes of pressure in the cylinder, and independent means for maintaining the valve on its seat automatically governed in accordance with variations in temperature of the valve.

1,692,629. ELECTRIC FLASH-LIGHT APPARATUS. GUSTAF DALÉN, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J., a Corporation of New Jersey. Filed July 10, 1923, Serial No. 650,588, and in Sweden July 12, 1922. 13 Claims. (Cl. 200—113.)

1. An electric flash light apparatus, comprising, in combination, a member adapted to be heated by an electric current, a switch device, a movable support for said switch device which support is adapted to be actuated by said

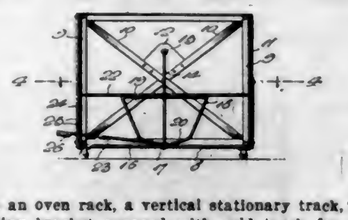
member, a spring connected to said support and adapted to rotate the same, and a pendulum device mounted upon said movable support and operating in conjunction with



the said spring to regulate the movements of said support and of the said switch device, the said switch device being included within a circuit including an electric lamp.

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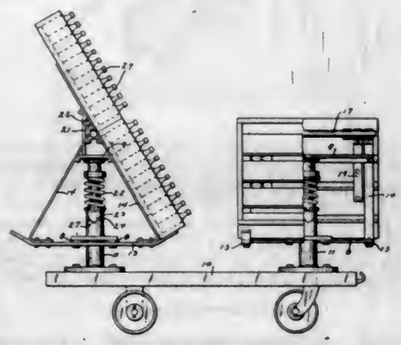
1,629,630. OVEN RACK. FANNIE MITCHEN DELAIH, Chicago, Ill. Filed Oct. 20, 1927. Serial No. 227,584. 7 Claims. (Cl. 126—337.)



1. In an oven rack, a vertical stationary track, a grate supporting bracket engaged with said track for vertical sliding thereon, said bracket having a projecting arm by means of which it may be raised and lowered, and means co-operable with said arm for supporting said bracket at different positions along the length of the track.

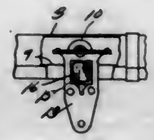
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1,692,631. WARE RACK. DAVID DENELSBECK and CLARENCE D. DILLE, Newark, Ohio, assignors to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 2, 1924. Serial No. 703,687. 4 Claims. (Cl. 211—1.)



1. The combination of a base comprising a pair of horizontally spaced interconnected triangular frames, each having downwardly and outwardly divergent sides, a horizontal pivot rod interconnecting the upper ends of said frames, trays hinged to the rod and normally resting on said sides, said trays being free to be individually swung upwardly above the pivot rod into alignment with the other tray, and means to hold either tray in the upward position.

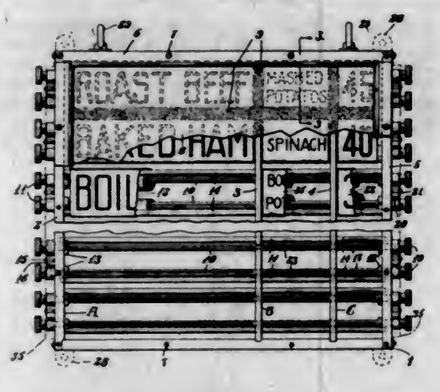
1,692,632. DOOR HANGER. JOSEPH DICKEY, Snyder, Nebr. Filed Mar. 23, 1927. Serial No. 177,624. 1 Claim. (Cl. 16—91.)



A sliding door hanger comprising a plate, an opening extending entirely through said plate, a vertically disposed roller mounted in said opening, said roller having its opposite sides extending beyond the opposite sides of the plate and its axis in the plane of the plate, a transversely disposed member carried by the upper end of the plate and antifrictional rollers carried by the ends of the transversely disposed member.

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1,692,633. ADJUSTABLE MENU OR ADVERTISING DEVICE. JAMES DICOMES and PETER JANOS, Boston, Mass. Filed June 23, 1928. Serial No. 287,670. 3 Claims. (Cl. 40—86.)

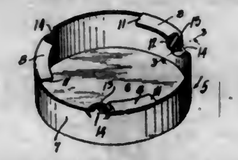



1. In a device of the kind described, a casing, a plurality of partitions dividing said casing into at least three vertical compartments, a pair of spindles in each end compartment, a pair of spindles in the central compartment, said last pair of spindles being parallel with and of sufficient length to extend directly in back of the spindles in one end compartment, a flexible strip carried by each pair of spindles, the front of said casing having alined sight openings therein, guide rods extending the full length of said casing and in close proximity to said sight openings, each of said flexible strips passing over said guide rods and being fed past said sight openings, and means operable from the ends of said casing to selectively wind said flexible strips from one spindle to the other.

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1,692,634. CLOSURE. JAMES C. DOWZIKO, Brooklyn, N. Y., assignor to National Seal Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 21, 1927. Serial No. 241,502. 7 Claims. (Cl. 215—44.)

7. In combination with a container having a lug, a closure having a lip to engage said lug upon rotation of the closure in one direction, said lip having a stop end to limit the rotation of the closure, and a supporting brace



for said stop end comprising a crimped, inwardly indented folded portion of the lip behind said stop end and integral therewith.

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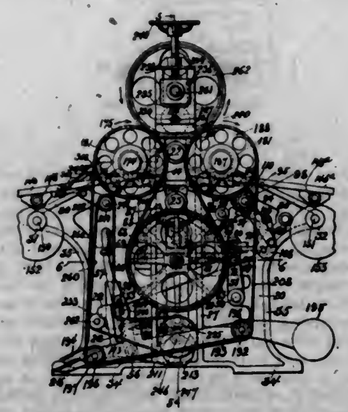
1,692,635. GRINDING HEAD. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 1, 1926. Serial No. 98,949. 3 Claims. (Cl. 51—209.)



1. A grinding head for use in the surfacing of flat glass comprising a circular plate carrying on one surface thereof a plurality of projections arranged radially from the center in rows and positioned and shaped in a manner that the entire area of the glass will be subjected to the action of equal areas of grinding head surface.

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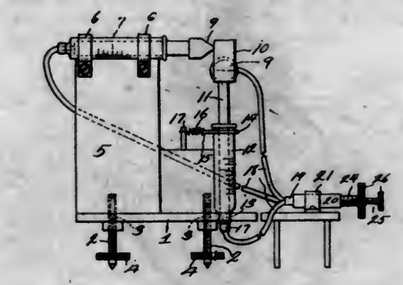
1,692,636. MACHINE FOR OBTAINING THE REGISTER OF THE ETCHINGS FOR MULTICOLOR INTAGLIO PRINTING CYLINDERS. ARTHUR DULTGEN, New York, and ADOLPH WEISS, Brooklyn, N. Y. Filed Dec. 8, 1925. Serial No. 74,034. 9 Claims. (Cl. 101—33.)



1. In a machine of the character described having an etched cylinder and a blank cylinder journaled therein, the combination of a transfer drum in rolling contact with said cylinders to transfer an impression from the etched cylinder to the blank cylinder, and means to adjust the transfer drum to different positions for cylinders of various diameters.



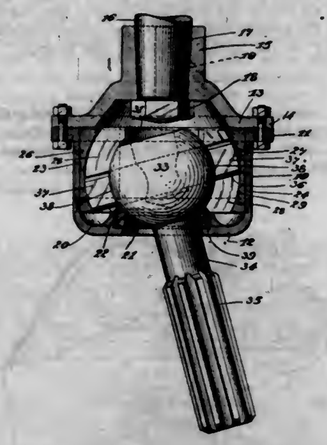
1,692,637. MEASURING DEVICE. FRANK L. DUNN, Omaha, Nebr. Filed Mar. 2, 1927. Serial No. 172,034. 3 Claims. (Cl. 33—1.)



2. A measuring device comprising a frame, plunger cylinders disposed at an angle to each other and carried by said frame, object engaging plungers in said plunger cylinders, liquid cylinders, pipe connections between the liquid cylinders and the plunger cylinders, sleeves threaded into the liquid cylinders and a liquid moving screw threaded into each of said sleeves.

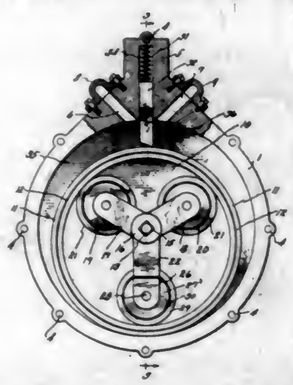
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1,692,638. UNIVERSAL JOINT. EUGENE P. EDWARDS, Flemington, N. J., assignor to Simplex Universal Joint, Inc., Flemington, N. J., a Corporation of New Jersey. Filed Mar. 25, 1927. Serial No. 178,166. 3 Claims. (Cl. 64—91.)



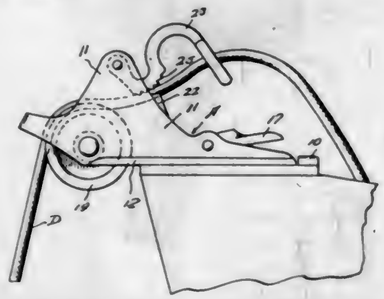
1. In a universal joint, a cylindrical casing having oppositely disposed walls in which there are similarly placed longitudinal bores, cylindrical bearing members each fitting within one of said bores and having a longitudinal groove therein with the edge portions defining the groove having a spherical recess therein, a shaft having a ball head adapted to fit between the oppositely disposed walls of the cylinder casing, a pin passing through and journalled in a transverse bore in the said ball head, the said pin extending beyond the surface of the ball head with the ends of the pin having flattened surfaces with spherical shoulders at the inner ends thereof adapted to co-operate with said spherical recesses in the said cylindrical bearings, and means for connecting a second shaft to the said cylindrical casing.

1,692,639. PUMP. HENRY L. ELSNER, Detroit, Mich. Filed Dec. 11, 1926. Serial No. 154,078. 3 Claims. (Cl. 103—123.)



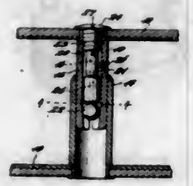
1. A pump comprising a casing having a cylindrical chamber therein, a shaft extending through the center of the chamber and rotatably mounted in the casing, a member secured to the shaft within the chamber and supporting three rollers, one of the said rollers being movable toward or away from the shaft, a ring smaller in diameter than the chamber and positioned about the three rollers, yieldable means tending to move the movable roller outwardly to move the ring into contact with the wall of the cylindrical chamber, the ring being equal in width to the depth of the chamber, a tongue extending from the wall of the chamber and yieldable means forcing the tongue into contact with the outer peripheral face of the ring, the casing being provided with an intake conduit opening into the chamber on one side of the tongue and a discharge conduit opening into the chamber on the opposite side of the tongue.

1,692,640. ANCHOR-CABLE GUIDE AND HOLDER FOR BOATS. ERICK G. ERICKSON, Alexandria, Minn. Filed Apr. 21, 1928. Serial No. 271,879. 3 Claims. (Cl. 114—199.)



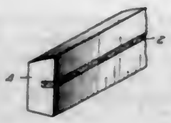
1. In an anchor cable guiding and locking means for boats, a plate casting constructed for rigid association with the boat, a second casting consisting of a pair of spaced vertical walls, and a bottom bridge wall extending between the rear end of said vertical walls, complemental construction between the bridge wall of the second mentioned casting, and the said plate casting, means associated with the bridge wall of said second mentioned casting for automatically engaging with the said complemental sliding construction of the plate casting to prevent sliding movement of the second casting upon said plate casting, a cable guide pulley arranged between the walls of the casting, and releasable means whereby the cable may be locked between said walls.

1,692,641. LOOSE-LEAF BINDER. CHARLES A. FINLEY, Rutherford, N. J., assignor to Boorum & Pease Company, New York, N. Y., a Corporation of New York. Filed July 28, 1928. Serial No. 296,016. 2 Claims. (Cl. 129—13.)



1. In a loose leaf binder a locking member comprising a tube and a cooperating slotted sleeve, the split walls of the sleeve being formed with a tapering bore at its free end, in combination with a ball of smaller diameter than the bore of the greater part of the sleeve, but of greater diameter than the bore at the free end of the sleeve and a screw pin adapted to bear against the ball.

1,692,642. RAIL FILLER. ALBERT C. FISCHER, Chicago, Ill. Filed July 23, 1927. Serial No. 207,953. 12 Claims. (Cl. 238—9.)



1. A rail filler having a weakened portion extending longitudinally of the exterior face of the rail filler.

1,692,643. IDENTIFYING RIBBON OR CHECK HOLDER. ALBERT C. FORTE, Virginia, Minn. Filed July 9, 1925. Serial No. 42,575. 1 Claim. (Cl. 40—1.5.)



A holder for the purpose set forth comprising a retaining section consisting of a hollow body portion including a top, a side and a dish-shaped bottom formed with a central opening, said bottom being concavo-convex in cross section and a frusto-conical sleeve integral at its larger end with said bottom and arranged completely within the body portion and of a length to project beyond said bottom, the inner end of said sleeve being spaced from the inner face of said top, and a supporting section consisting of a circular base and an integral stem extending through said sleeve into said body portion, said stem formed of two portions of different diameters to provide a shoulder, that portion of smallest diameter integral concentrically with one face of said base and of less length than the portion of greatest diameter, said portion of greatest diameter slitted to provide a series of resilient arms, and a triangular shaped head integral with the free end of each arm and having its outer face curving outwardly and downwardly throughout from its apex to its base, said heads co-acting with the inner edge of said means for securing the retaining section and supporting section together, and said shoulder and base co-acting to secure a check to said stem.



1,692,644. ELECTRIC COOKING UTENSIL. BERNARD M. FROMKNECHT, Erie, Pa., assignor to The Griswold Manufacturing Company, Erie., Pa., a Corporation of Pennsylvania. Filed Dec. 2, 1926. Serial No. 152,163. 5 Claims. (Cl. 53—10.)



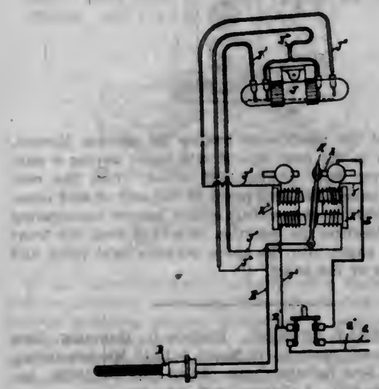
1. In an electric cooking utensil, the combination of a hot plate having a cooking surface thereon; a heating element secured under the plate; and a guard plate clamped at its center to the underside of the hot plate and having a depending drip protecting skirt at its edge.

1,692,645. SAFETY PAPER. LOUIS GAILER, New York, N. Y., assignor to E. E. Lloyd Paper Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1928. Serial No. 244,844. 9 Claims. (Cl. 283—9.)




5. A safety paper having a coating of dye coloring having compressed portions to provide identification matter in said coating.

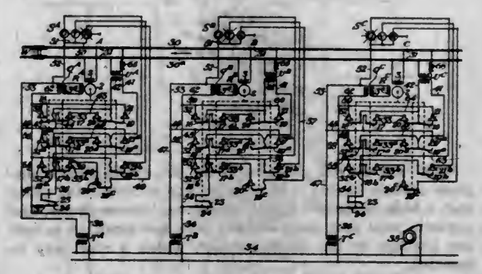
1,692,646. SYSTEM FOR HEATING WATER. JAMES E. GANNON and MONTAGUE W. WARD, Erie, Pa.; said Ward assignor to John Mark Gannon, Erie, Pa. Filed Dec. 29, 1926. Serial No. 157,774. 1 Claim. (Cl. 219—20.)



In a system for heating water, a tank, an electric heating unit within said tank, a main electric circuit including a make and break device, a shunt circuit including a magnetic coil connected with said main circuit, a make and break device in said shunt circuit by means of which said shunt circuit can be closed, a second shunt circuit including a magnetic coil connected with said main circuit, a make and break device in said second shunt circuit by means of which said second shunt circuit can be closed, and a thermostatic device actuated by the temperature of the water in said tank to alternately energize said magnetic coils.

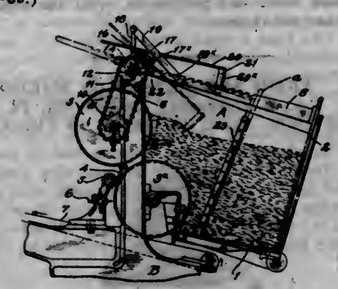


1,692,647. RAILWAY SIGNALING APPARATUS. ROBERT M. GILSON, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Original application filed Jan. 8, 1923, Serial No. 611,275, Patent No. 1,682,749, dated Sept. 4, 1928. Divided and this application filed Jan. 12, 1928. Serial No. 246,179. 9 Claims. (Cl. 246—38.)



1. In combination, a plurality of successive sections of railway track, a relay for each section having a winding connected with the rails of the section and having a movable member responding to reversals of relative polarity of the current in the rails by moving to two extreme positions in opposite directions from a biased position, means controlled by said member when in either extreme position for supplying current of one relative polarity to the rails of the section in the rear and when in its biased position for supplying current of the opposite relative polarity to the rails of the section in the rear, a signal for each section, means controlled by the movable member of each relay for causing the associated signal to indicate proceed or caution or stop according as said member is in one extreme position or the other extreme position or the biased position, an auxiliary contact for each relay arranged when open to prevent the supply of current of said opposite relative polarity to the rails of the section in the rear and also to prevent the associated signal from indicating stop when said movable member of the relay is in the biased position, said auxiliary contact being open when said member is in either extreme position and closed when said member is at rest in its biased position, and means associated with said auxiliary contact for preventing momentary closure thereof during continuous movement of said member from one extreme position to the other.

1,692,648. CONSTANT-LEVEL HOPPER FOR TOBACCO-FEEDING MACHINES. CLAIBORNE WATTS GOOCH, Jr., Lynchburg, Va., assignor to United Cigarette Machine Co. Inc., Lynchburg, Va., a Corporation of Virginia. Filed Sept. 9, 1926. Serial No. 134,352. 5 Claims. (Cl. 131—39.)



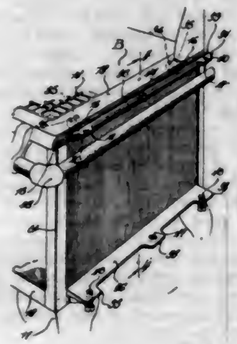
1. In a device of the character described, a chamber adapted to contain tobacco, a registering device the position of which is determined by the quantity of the tobacco in said chamber, and a movable member and actuating means therefor controlled by said registering device for decreasing the effective area of said chamber when the registering device reaches a predetermined position.

1,692,649. JUMP-RING COUPLING. GILBERT W. GOODRIDGE, Fairfield, and WILLIAM J. GAGNON, Bridgeport, Conn., assignors to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 1, 1927. Serial No. 171,846. 5 Claims. (Cl. 24—116.)



1. A coupling for chains and the like comprising a one-piece capsule having a hole in its side to admit the chain end, a hole in its end, a slot connecting the two holes, and opposite said first hole another hole too small to permit the passage of the chain through which a ring may be inserted.

1,692,650. RANGE. WILLIAM L. GREGG, Milwaukee, Wis., assignor to The Fuller-Warren Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 14, 1925. Serial No. 75,349. 10 Claims. (Cl. 126—332.)



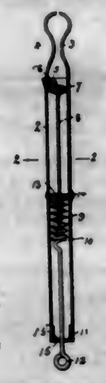
1. In a gas range having a burner section and a top frame for the section, a supporting rail connectible with the top frame, a heater removably supported from the supporting rail and having an interlocking connection therewith, and a shelf structure carried by the range below the supporting rail and engageable with the heater at its inner lower end portion to, with the supporting rail, give support thereto.

1,692,651. BRAID AND METHOD OF MAKING THE SAME. CARL J. GREENSPAN, Philadelphia, Pa. Filed Feb. 13, 1926. Serial No. 88,006. 9 Claims. (Cl. 96—26.)



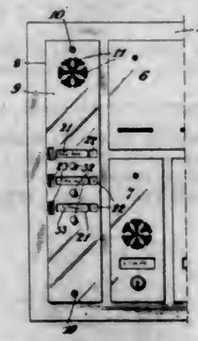
1. A rug braid comprising strands on opposite surfaces thereof extending longitudinally of said braid and substantially parallel with one another; and binder threads engaging said strands together and concealing such strands only at spaced points.

1,692,652. CIGARETTE CLIP. JOHN G. HABBART, Prairie du Chien, Wis. Filed Sept. 13, 1926. Serial No. 135,265. 3 Claims. (Cl. 131—51.)



1. A device as described consisting of a tube having an integrally extending jaw, a movable jaw having a lever end pivotally mounted within said tube, and means for operating the last jaw to cooperate with the first jaw to hold a cigarette.

1,692,653. METAL RECEPTACLE. SAMUEL HAMMER, Brooklyn, N. Y. Filed Oct. 19, 1926. Serial No. 142,541. 3 Claims. (Cl. 40—64.)



1. A panel for receptacles having an opening therein, a plate fixed to the rear side of said panel having a part extending over said opening and spaced from the rear face of said panel, and said panel at one end of said opening therein having an inwardly struck tongue constituting means for directing the insertion of a card from the front side of said panel into the space between said plate and the rear face of the panel.

1,692,654. BELT BUCKLE. HORACE G. HANCOCK, New Britain, Conn., assignor to North & Judd Manufacturing Company, New Britain, Conn. Filed July 23, 1926. Serial No. 124,435. 7 Claims. (Cl. 24—191.)



1. A belt buckle comprising a buckle body, a lever mounted thereon, and a gripper permanently carried by the lever, the gripper consisting of a split elliptical loop, and there being retaining elements on the lever extending over the terminals of the loop and across the edges thereof.

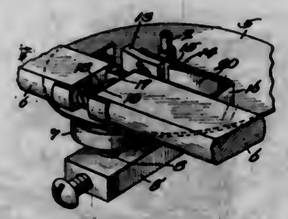


1,692,655. FLYING HORSE. CLYDE R. HARDING, Council Bluffs, Iowa. Filed May 5, 1927. Serial No. 189,153. 5 Claims. (Cl. 155—65.)



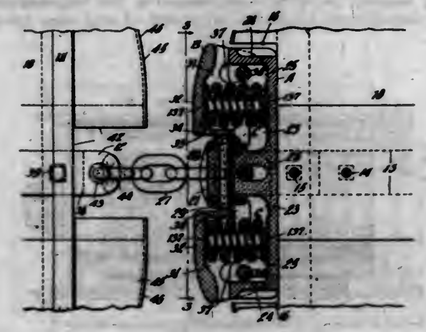
1. A swing including a seat rigidly secured to a depending tubular member, said tubular member being adapted to be pivotally secured at its upper extremity to an overhead support, an operating linkage secured to said tubular member and to an overhead support at points remote from said tubular member, and foot actuated means for imparting movement to said operating linkage for propelling said swing, said means being inside said tubular member and connected at its upper extremity to said operating linkage and at its lower extremity to a stirrup below said seat and said tubular member.

1,692,656. ELECTRICITY METER. JESSE HARRIS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Dec. 27, 1926. Serial No. 157,228. 4 Claims. (Cl. 171—84.)



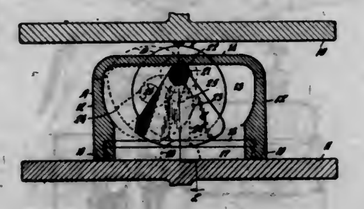
1. An electricity meter inclusive of a motor having a motion damping armature upon its moving element; a motion damping magnet furnishing a magnetic field in which said armature turns; a block of magnetic material disposed in the polar region of said magnet to alter the strength of the aforesaid magnetic field in which said armature turns; a mounting strip carrying said block at one end and having a mounting to which it is secured at its other end, said strip being formed to flex in response to change in temperature whereby the proximity of said block to said magnet is varied to vary the effect of said block upon the aforesaid magnetic field; and a fulcrum located between the mounted end of said strip and said block and positioned to enable said strip to become engaged therewith or separated therefrom in response to changes in temperature to vary the effective length of said strip and its consequent influence upon the position of said block.

1,692,657. CAR CONSTRUCTION. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Sept. 26, 1923. Serial No. 664,869. 6 Claims. (Cl. 213—9.)



1. In a car, the combination with a draw-bar fixed to one end of the car and projecting outwardly therefrom, said drawbar being slotted; of a buffing member; a pin fixed to said buffing member and working in the slot of said drawbar; a draft member adapted to abut the ends of the car, said buffing and draft members being movable relatively toward and from each other; cushioning means interposed between said buffing and draft members; and means for detachably connecting the draft member to an adjacent car.

1,692,658. ANTIFRICTION BEARING. STACY B. HASELTINE, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Feb. 9, 1924. Serial No. 691,577. 5 Claims. (Cl. 308—226.)

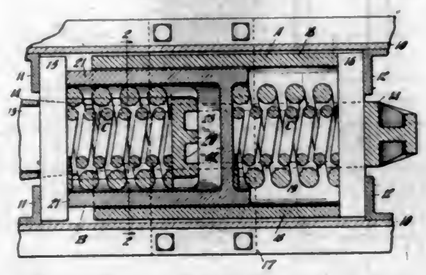


3. In an anti-friction bearing, the combination with a mounting having a horizontally disposed bearing surface; of a member pivotally connected with said mounting at one of its ends to swing about a fixed axis and normally urged to a vertical position; an anti-friction roller adapted to move to and fro on said bearing surface; and inter-connecting means between said anti-friction roller and said member, said means including contacting surfaces on said member and said roller operating upon movement of said roller to either side of central position to displace said member from normal vertical position, said surfaces being shaped to effect returning force upon said roller by said member in a direction substantially parallel with the line generated by the center of said roller at all points during the movement of said roller.

1,692,659. SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 16, 1927. Serial No. 168,557. 8 Claims. (Cl. 213—48.)

1. In a tandem spring shock absorbing mechanism adapted for co-operation with the usual front and rear main fol-

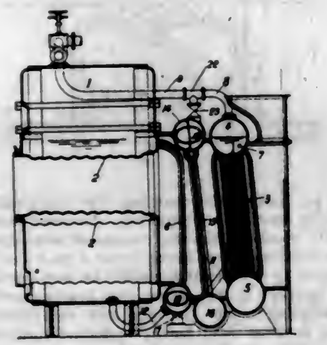
lowers of a railway draft rigging, the combination with a casing open at opposite ends and adapted to bear on one of said main followers, said casing having intermediate follower means thereon; of a pressure transmitting member telescoped within said casing, said pressure transmitting member including arms spanning the intermediate follower of said casing, the outer ends of said arms being



adapted to bear on the other main follower; a second intermediate follower serving as a connecting section for said arms; and tandem arranged springs, one of said tandem springs being interposed between the main follower on which said casing bears and the second named intermediate follower, and the other tandem spring being interposed between said first named intermediate follower and the remaining main follower.

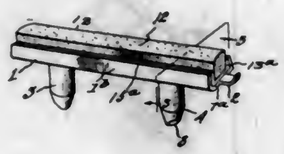
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1,692,660. STEAM-GENERATING PLANT. JAMES HOWDEN HUME, Glasgow, Scotland. Filed Mar. 25, 1927, Serial No. 178,234, and in Great Britain May 27, 1926. 3 Claims. (Cl. 122—42.)



1. A steam generating plant comprising a boiler of the cylindrical type, an economizer spaced from the back end of the boiler and comprising upper and lower drums and substantially vertical tubes connecting said drums, a connection between the steam space of the upper drum and the steam space of the boiler, the lower drum being unconnected with the boiler otherwise than by way of said tubes, a water box at about the level of the bottom of the boiler, a connection between said water box and the lower side of the boiler, upcast circulating tubes led from said water box to the back of the boiler, said circulating tubes being located nearer the back end of the boiler than said first-mentioned tubes, and a downcomer connection from said upper drum to said water box.

1,692,661. COMBINED ABRASIVE AND CARRIER. MARSDEN C. HUTTO, Detroit, Mich. Filed Dec. 11, 1926. Serial No. 154,280. 5 Claims. (Cl. 51—206.)



1. As a new article of manufacture, a combined abrasive and holder therefor adapted for replacement of similar articles used in a cylinder grinder such as described comprising a channeled member and a grinding stone or abrasive secured in the channel by means of a solder and with the face of the stone parallel with the back of the channel member, guide pins secured to the back of the member each having its axis at a right angle to the said back and finished to an equal length from the face of the stone.

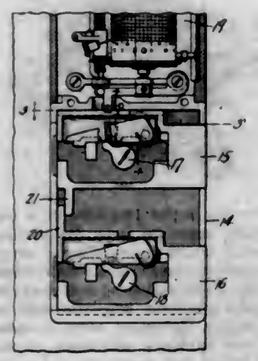
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1,692,662. ETHYL-ALCOHOL SUBSTITUTE AND PROCESS FOR MAKING SAME. ROBERT M. ISHAM, Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed May 6, 1926. Serial No. 107,262. 9 Claims. (Cl. 252—1.)

3. A product including isopropyl alcohol, acetaldehyde and butyl acetate, the proportion of alcohol being greatly in excess of the combined amount of aldehyde and acetate and the odor of the product resembling that of ethyl alcohol.

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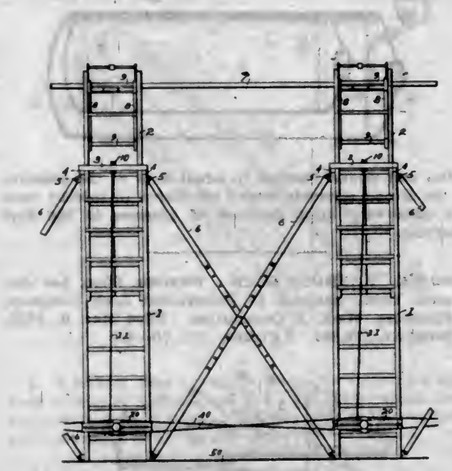
1,692,663. DOUBLE LOCK FOR DOORS. THEODORE H. JOSEPH, New York, N. Y., assignor to The Silent Watchman Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 7, 1927. Serial No. 181,683. 4 Claims. (Cl. 70—74.)



1. The combination comprising a lock case, first and second lock bolts slidably mounted in the case, a portion of the first bolt adapted to engage forward of a part of the second bolt and a key operated member adapted to throw the bolts into locked position by first engaging with and locking the first bolt and then engaging with and locking the second bolt.



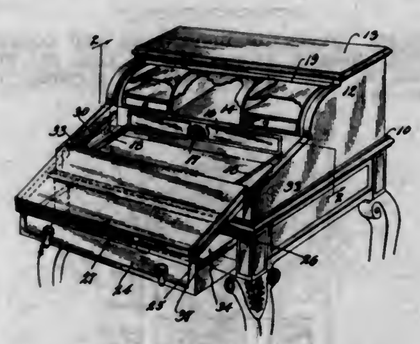
1,692,664. MULTIPLE-UNIT SINGLE-CONTROL EXTENSION STAGING. MICHAEL KIRSCH, Milwaukee, Wis. Filed June 30, 1927. Serial No. 202,662. 7 Claims. (Cl. 304—10.)



1. A staging comprising a main ladder and an extension ladder section and a drum rotatably supported by the main ladder section, a pulley on the main ladder section, and spaced from the drum and a cable wound upon the drum and operable over the pulley for control of the extension ladder section and a second cable wound upon the drum for remote control of rotation thereof.

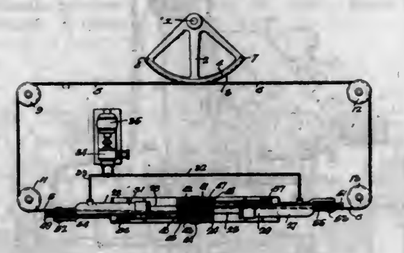
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1,692,665. CABINET DESK. LEON KNABSTER, Union City, N. J. Filed Mar. 1, 1927. Serial No. 171,816. 5 Claims. (Cl. 45—6.)



4. In a desk, a platform, a public cabinet section disposed above the same, a secret container intermediate said cabinet and platform and withdrawable toward the front of the desk, means at the forward portion of the desk for concealing said container and movable to permit access thereto, a cover for the cabinet section cooperating with the concealing means, a drawer beneath said platform connected to said cover and provided with an extended front panel, and means upon the platform to engage said panel for limiting the inward movement of said drawer.

1,692,666. HYDRAULIC STEERING GEAR. CHARLES VERNON KOONS, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 8, 1925. Serial No. 49,146. 4 Claims. (Cl. 114—150.)



1. A pair of spaced motors having a common ram extending therebetween, a portion of said ram intermediate said motors being recessed to receive a sheave, and means for supporting said sheave in said recess.

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1,692,667. TOY HORSE. JEROME P. KRIMKE, Newark, N. J. Filed Apr. 20, 1928. Serial No. 271,529. 4 Claims. (Cl. 208—42.)



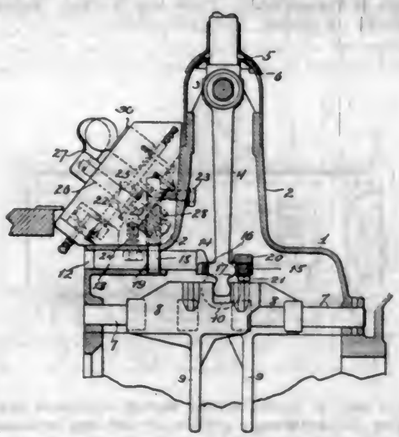
1. A toy comprising a body simulating that of an animal, a saddle pivoted upon the body, a lever fulcrumed upon the body and having one end frictionally engaging the saddle, an axle pivotally connected with the lower end of the lever, wheels carried by said axle, a ratchet wheel mounted upon the axle, a pawl pivotally supported with relation to the lever and engaging said ratchet wheel, an axle journalled at the rear portion of the body, wheels carried by the last mentioned axle, a ratchet wheel carried by the last mentioned axle and a pawl pivotally mounted with relation to the body and engaging the last mentioned ratchet wheel.

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1,692,668. AUTOMOBILE LOCK MEANS. JOSEPH S. LACH, Bridgeport, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 4, 1926. Serial No. 127,089. 1 Claim. (Cl. 70—90.)

The combination with a transmission housing member, shift block, and a shifting member cooperable with said shift blocks, of a lock casing secured to said housing, a bolt mounted in said casing and movable through the

top of the housing to engage the shifting member, said bolt having rack teeth, a manually operable shaft mounted in the lock casing, a pinion carried by said shaft and



meshing with the rack teeth on the bolt, and key-controlled means mounted in the lock casing for controlling the operation of said shaft.

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1,692,669. ELECTRODE TO BE APPLIED TO THE HUMAN BODY. EAWIN LAST, Vienna, Austria. Original application filed Dec. 18, 1925, Serial No. 76,165, and in Austria Nov. 14, 1925. Divided and this application filed Feb. 17, 1927. Serial No. 168,873. 5 Claims. (Cl. 174—89.)



1. In an electrode to be applied to the human body for diathermic treatment, the combination of an electrically non-conductive carrier molded from a material of a nature possessing sufficient pliability to adapt itself intimately and closely to the surface to be treated and capable of maintaining its molded shape and configuration, an electrically conductive lining on the side of such carrier next to the said part of the body and means for electrically connecting such lining with a source of electric current.

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1,692,670. APPARATUS FOR STORING FLUID UNDER PRESSURE. LOUIS JOHN LE MESURIER, Belmont, England. Filed July 20, 1925, Serial No. 44,953, and in Great Britain Dec. 30, 1924. 8 Claims. (Cl. 220—3.)

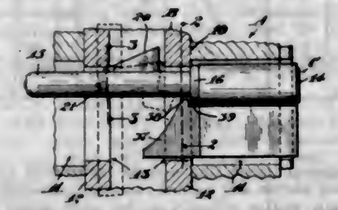
1. In apparatus for storing fluid under pressure, in combination with a reservoir adapted to contain fluid under pressure a reservoir disposed within the first reservoir and subjected to the pressure of the fluid therein and adapted to contain fluid at a higher pressure than that in the first reservoir, and a connection between said reservoirs including a main valve, a piston controlling said



valve, and means operable to admit fluid at the pressure of the second reservoir behind the piston to thereby open the main valve upon decrease of pressure in the first reservoir.

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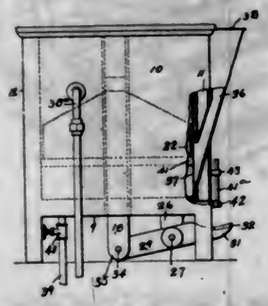
1,692,671. KEYHOLE LOCK. WENDELL LOGG, Los Angeles, Calif., assignor to Independent Lock Company, Fitchburg, Mass., a Corporation. Filed Mar. 9, 1927. Serial No. 173,867. 3 Claims. (Cl. 70—8.)



3. A device of the class described comprising a keyhole stoppel consisting of a substantially cylindrical portion and a radially extending web said web having a plurality of bores formed therein to receive lock tumblers, a lock cylinder rotatably mounted in said stoppel, a stem extending from the lock cylinder, a spring actuated catch carried by the stem, a collar between said cylinder and stem, there being a key slot formed in said cylinder and through said collar, a portion of said web being extended through the slot in said collar and said collar being burred to prevent movement of the said web portion axially relative to the stem.

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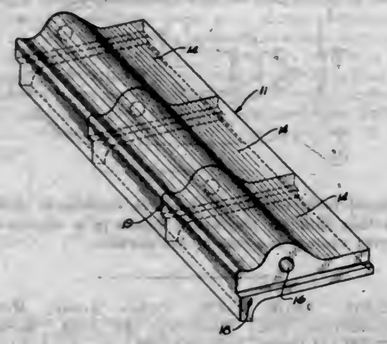
1,692,672. BEVERAGE DISPENSING AND COOLING BOX. HENRY R. LOOSLEY, East St. Louis, Ill. Filed Mar. 25, 1927. Serial No. 178,332. 2 Claims. (Cl. 62—76.)



1. A beverage dispensing and cooling box comprising a box having a lid, a tray divided into compartments suspended in said box, means for raising and lowering said tray, means located within said box for limiting the lowering of said tray, means carried by the front of said box through which crushed ice can be inserted in said box below said tray without removing said tray or draining or opening the lid of said box, and means for holding said tray in raised position.



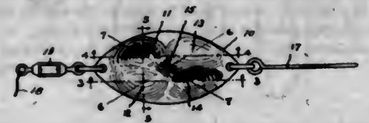
1,692,673. SHEET-GLASS APPARATUS. NESTOR NAMBOURG, Lancaster, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 11, 1926. Serial No. 134,823. 7 Claims. (Cl. 49—17.)



1. In a sheet glass apparatus, means for drawing a sheet from a mass of molten glass, and a lip tile arranged above the molten glass, a support therefor, said lip tile comprising a plurality of sections threaded on said support.

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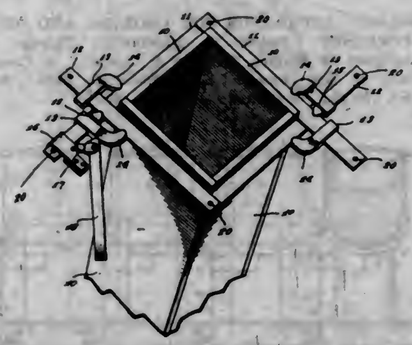
1,692,674. TROLLING SPOON. GEORGE MAPEL, Seattle, Wash. Filed Aug. 13, 1927. Serial No. 212,675. 5 Claims. (Cl. 43—42.)



1. In a trolling spoon, a thin metal body member having four symmetrically arranged spoon shaped portions, two of which are formed side by side near each end of the body member the two spoon shaped portions near each end of the body member being dished in opposite directions.

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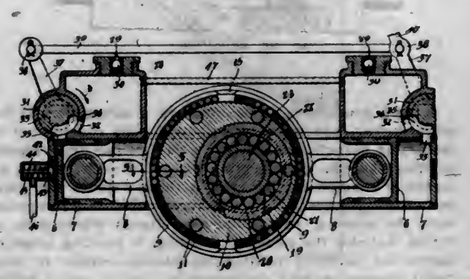
1,692,675. COLUMN CLAMP. CHARLES M. MARKHAM, Indianapolis, Ind. Filed July 27, 1925. Serial No. 46,247. 5 Claims. (Cl. 144—291.)



1. A clamp for clamping together hollow polygonal column forms, comprising a bar adapted to extend across each outer face of such form, said bars being arranged to cross in pairs at corners of such form, a locking dog on each bar having a portion rigid with the remainder of the dog for engaging the intersecting bar, each of said dogs being adapted to grip its own bar by outward pressure of such intersecting bar to prevent loosening of the clamp, and clamp-tightening means adapted to draw each of said bars through the dog thereon.

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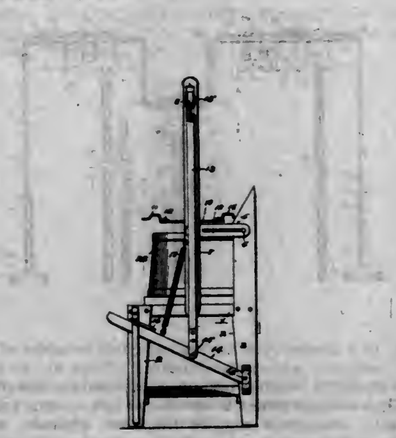
1,692,676. FLUID-PRESSURE BRAKE. HOWARD E. MARSH, Lompoc, Calif., assignor to J. F. Frick and E. J. Talbott, trustees. Filed Sept. 29, 1926. Serial No. 138,509. 6 Claims. (Cl. 188—99.)



1. A fluid pressure brake comprising a cylinder, a plunger in the cylinder, a chamber provided with a port, an inwardly opening check valve controlling said port, valve means to control the flow of fluid between the cylinder and chamber, and means to operably connect the plunger with a vehicle wheel.

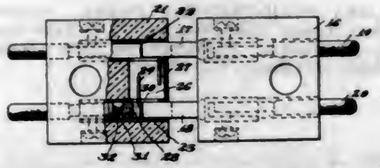
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1,692,677. FRUIT-PACKING DEVICE. ROBERT E. MARTIN, Crozet, Va. Filed Oct. 18, 1926. Serial No. 142,838. 2 Claims. (Cl. 147—1.)



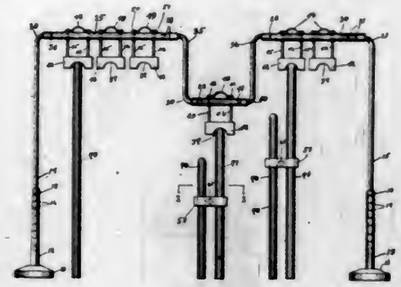
1. In a device for assembling the ends of a container, and packing and pressing same and its contents, said device comprising a platform and a removable frame supported thereby and of substantially the same contour as the container, a manually and positively operated resilient pressure member adapted to maintain the component parts of said container in position upon said frame for assembly, and subsequently after the removal of the frame, the reversal of, and the filling of said container, adapted to be applied thereto for pressing said container and its contents.

1,692,678. ELECTRICAL CONNECTION. THOMAS H. MCCOMSEY, Los Angeles, Calif. Filed Nov. 26, 1924. Serial No. 752,342. 3 Claims. (Cl. 200—2.)



1. As a new article of manufacture, a socket element for an electrical connection comprising a body constructed of insulating material and having a pair of relatively spaced cavities therein, a conducting sleeve in each cavity, an immobile contact consisting of a tongue struck out from one of said sleeves, a mobile contact electrically connected with the other of said conducting sleeves whose path of travel includes the immobile contact, a yielding pressure means for normally holding the mobile contact in electrical connection with the immobile contact, and a device carried by and movable with the mobile contact, whereby a circuit including both of said conducting elements will be normally closed by said mobile and immobile contacts, and whereby such circuit will be broken upon the insertion of a plug in the cavity having the mobile contact.

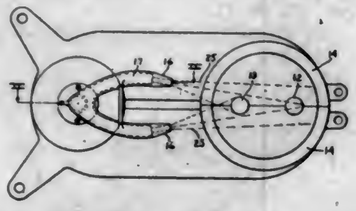
1,692,679. DISPLAY AND STORAGE RACK. LEE L. MCGOOGAN, St. Pauls, N. C. Filed Jan. 26, 1927. Serial No. 163,700. 6 Claims. (Cl. 211—123.)



4. In a display rack for head and foot members of beds, two vertically adjustable standards, elbows at the top of the standards leading towards each other, a plurality of tubular sections joined to the elbows and to each other to form a continuous support from one standard to the other, holes through the sections, vertically slidable members mounted in the holes, members having a notch in their lower edges being secured to the vertically slidable members, said notches being adapted to engage the tops of hand and foot members to hold the same in approximately vertical position.

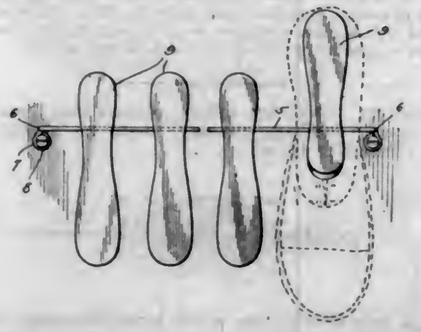
1,692,680. MACHINE FOR FORMING GLASS ARTICLES. JOHN E. MCLAUGHLIN, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 19, 1927. Serial No. 227,092. 6 Claims. (Cl. 49—14.)

1. In a glass forming machine, the combination of means for suspending a parison of glass while in a plastic condition, and means for directing cooling air against one side of the parison comprising a plurality of air nozzles



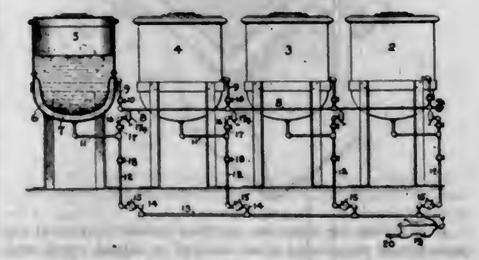
arranged to direct blasts of air in convergent directions such that said air blasts are united in a stream of air directed against one side of the parison.

1,692,681. SHOE RACK. CUBAN ALFRED MONSEES, Brownsville, Tex. Filed Sept. 27, 1927. Serial No. 222,291. 1 Claim. (Cl. 211—35.)



A shoe rack including a supporting rod, said supporting rod having right angled ends formed with eyes, a plurality of shoe forms having openings to receive the rod, means for supporting the forms in a position to cause the forms to swing inwardly under the weight of shoes positioned thereon, and means extending through the eyes for securing the supporting rod to a supporting surface.

1,692,682. APPARATUS FOR COOKING AND OTHER PURPOSES. FRANK H. MONTREUIL, Chicago, Ill., assignor to Warren Webster & Company, a Corporation of New Jersey. Filed Dec. 27, 1924. Serial No. 758,332. 5 Claims. (Cl. 126—370.)

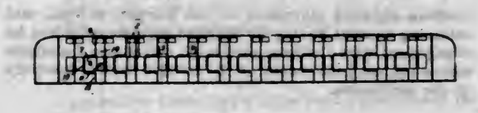


1. In apparatus of the character stated, a plurality of steam heated units and a common source for supplying steam to the several units, in combination with a drainage



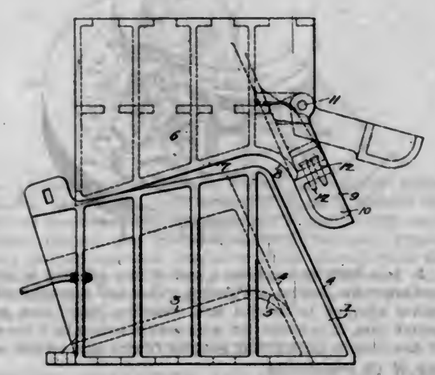
main common to all of the heating units for receiving the water of condensation therefrom, a trap for normally sealing the drainage main but permitting the escape of water therefrom, and a plurality of connecting means each between said drainage main and one of the heating units each connecting means comprising a stand-pipe receiving water of condensation from the lower part of the heating unit and at its bottom connecting with the drainage main and further provided with a check valve at the bottom of the stand-pipe for permitting water to pass therefrom into the drainage main but prevent the passage of water from the drainage pipe into the stand-pipe, and means for permitting the escape of air from the upper portion of the stand-pipe.

1,692,683. RAILWAY CAR. WOOLRIDGE B. MORTON, New York, N. Y. Filed July 16, 1927. Serial No. 206,294. 4 Claims. (Cl. 105—315.)



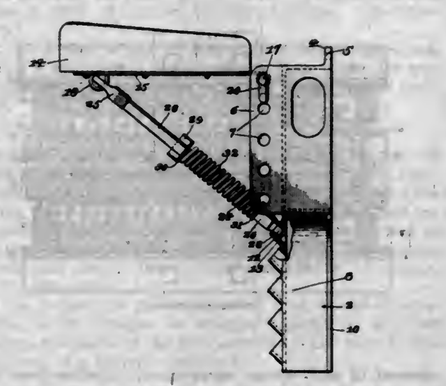
1. In a compartment car, a plurality of separate compartments extending transversely of the car, a berth in each compartment, the berths for two adjacent compartments being arranged one above the other, one of said compartments having its free floor space on one side of said berths and the other of said compartments having its free floor space on the other side of said berths, windows in the side wall of said car at the end of said free floor space, and mirrors adapted to be closed against said windows or moved away therefrom.

1,692,684. DIES FOR FORMING THROAT SHEETS FOR BOILERS. WILLIAM NEES, Drexel Hill, Pa. Filed June 8, 1927. Serial No. 197,496. 3 Claims. (Cl. 113—49.)



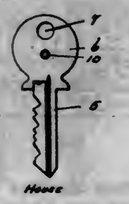
1. The combination in a die for forming sheet metal having a body portion and a deep flange, such as a throat sheet of a locomotive boiler, of a lower die having a segmental cavity and a face to form the flange of the blank; and a single upper die conforming to the shape of the lower die and having a movable nose section arranged to be moved from the path of the formed blank so that the flanged piece can be removed from the lower die.

1,692,685. LOCOMOTIVE-CAB SEAT. WILLIAMS S. A. NEWMAN, Childress, Tex. Filed July 19, 1927. Serial No. 206,940. 8 Claims. (Cl. 155—51.)



1. A seat for the purpose set forth comprising a stationary standard, a seat member, a combined seat member supporting and pivot bar for detachably connecting said member to the standard, and an inclined cushioned supporting means for the seat member, said means detachably engaging into said standard and connected with the seat member, said standard provided with means at its sides and centrally thereof for selectively positioning said bar and cushioned supporting means respectively relative thereto.

1,692,686. TACTUAL INDICATOR. HARRY J. NICHOLS, Washington, D. C. Filed Apr. 17, 1924. Serial No. 707,053. 3 Claims. (Cl. 70—9.)

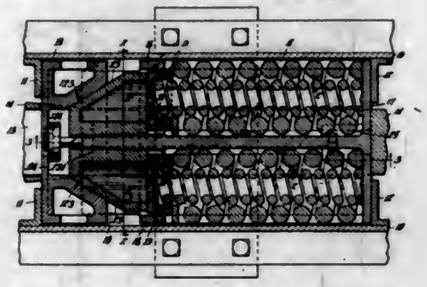



2. In combination with a key having a flat grip provided with a plurality of holes arranged in predetermined relation in said grip, and indicating means mounted in any one of said holes and projecting in a predetermined relation laterally from the flat face of said grip, whereby the key may be distinguished from other keys of similar shape by a sense of touch.

1,692,687. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 11, 1925, Serial No. 14,591. Renewed Apr. 23, 1928. 5 Claims. (Cl. 213—36.)

1. In a friction shock absorbing mechanism, the combination with a spring cage having top and bottom walls; of a central, longitudinally disposed partition dividing the cage into spring compartments, said partition having V-

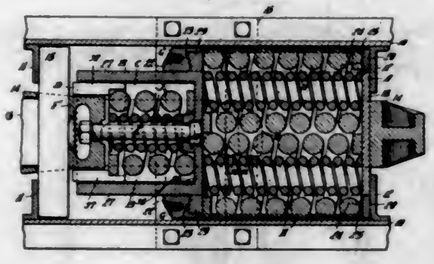
arranged friction surfaces at the forward end thereof, the top and bottom walls of said cage being co-extensive in length with the partition and being formed integral with the latter to reinforce the same; a main spring resistance



element in each spring compartment; friction-shoes having wedge faces and V-arranged friction surfaces co-operating with the friction surfaces of the partition; and a hollow wedge element having interior wedge faces.

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1,692,688. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,345. 7 Claims. (Cl. 213—24.)

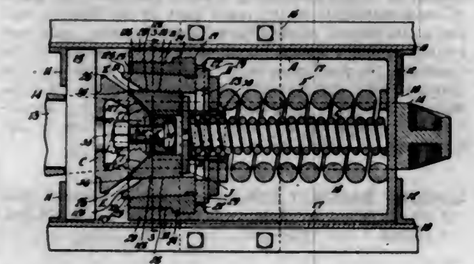


1. In a friction shock absorbing mechanism, the combination with a spring cage having detachable side wall sections, said side wall sections having overhanging retaining portions at the forward end thereof; of a friction shell, said shell and cage being relatively movable to a limited extent, said shell having means thereon engaging behind said overhanging portions of the side wall sections for limiting outward movement of the shell with respect to the cage; friction means cooperating with the shell; and spring resistance means opposing movement of the friction means and movement of the shell with respect to the spring cage.

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1,692,689. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,346. 9 Claims. (Cl. 213—34.)

1. In a friction shock absorbing mechanism, the combination with a combined friction shell and spring cage; of a friction system cooperating with the friction shell section of the cage; removable liners mounted on opposite walls of the friction shell, said liners having friction surfaces cooperating with the friction system; wear elements for the remaining walls of the friction shell, said wear elements forming a part of the liners; a retaining element for



limiting outward movement of the friction system, said retaining element having its outward movement limited by engagement with the wear elements; and spring resistance means opposing movement of the friction system inwardly of the mechanism.

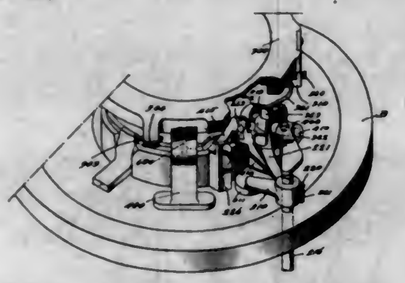
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1,692,690. RAPID MAGNETIZING AND DEMAGNETIZING METAL ALLOYS. SIDNEY OSSEA, Wichita, Kans. Filed June 26, 1926. Serial No. 118,040. 3 Claims. (Cl. 75—1.)

1. A rapidly magnetizable and demagnetizable metal alloy resulting from a combination of or including iron, manganese, substantially .51%, phosphorus, from .10% to .15%, and silicon, from .3% to .5%, and iron sufficient in quantity to make the other ingredients according to the percentage employed 100%.

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1,692,691. KNITTING MACHINE. ALBERT E. PAGE, Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Apr. 8, 1927. Serial No. 182,130. 3 Claims. (Cl. 66—48.)



1. In a knitting machine, a switch cam adapted to raise and lower the needles, a widening picker and cam-controlled means adapted to control said widening picker and said switch cam, in combination with means moved by a change of direction in the knitting adapted to give said switch cam one of its movements.

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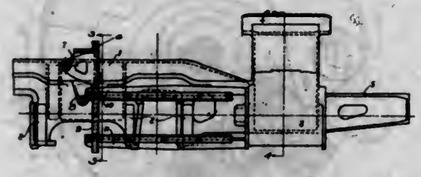
1,692,692. PROCESS FOR THE MANUFACTURE OF SULPHATE OF ALUMINUM. LOUIS GABRIEL PATROUILLEAU, Paris, France, assignor to Société Alumine et Dérivés, Paris, France, a Joint Stock Company. Filed Sept. 23, 1925, Serial No. 58,100, and in France Sept. 29, 1924. 4 Claims. (Cl. 23—124.)

4. The herein-described process for obtaining an insoluble sulphate of aluminum from bauxite, consisting in subjecting the bauxite to the action of sulphuric acid to reduce the bauxite to a solution of multiple sulphates, transforming the salts of iron contained therein to soluble ferrous salts through the addition of iron and the action of heat, diluting the resultant so as to precipitate the basic sulphate of aluminum, and recovering the insoluble sulphate of aluminum.

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1,692,693. LOCOMOTIVE CONSTRUCTION. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed Mar. 10, 1927. Serial No. 174,273. 20 Claims. (Cl. 105—172.)



1. A locomotive frame and a cross head guide formed integrally with each other.

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1,692,694. COMBINED SHIELD AND BRACKET SUPPORT FOR DOUBLE SHADES. ELMER F. PIDGEON, Spiceland, Ind., assignor of one-half to Luther O. Draper, Spiceland, Ind. Filed Mar. 10, 1927. Serial No. 174,275. 8 Claims. (Cl. 156—10.)



1. A combined shield and bracket support for double shades, comprising a light excinding shield of angular formation in vertical section adapted to support double shade rollers thereon and having a vertical dimension greater than the corresponding dimension of the space between the rollers, and the shield being arranged at the outer sides of the rollers with its apex extending into the space between the rollers.

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1,692,695. ANÆSTHETIC AND PROCESS FOR MANUFACTURING SAME. WILLIAM JACKSON POPE, Cambridge, England, assignor to The British Drug Houses Limited, London, England, a British Company. Filed Mar. 18, 1926, Serial No. 95,785, and in Great Britain July 28, 1925. 11 Claims. (Cl. 260—105.)

1. As a new article of manufacture a borate of an anæsthetic base which borate has a composition of approximately one molecular proportion of the base to 5 molecular proportions of boric acid and has in solution a high anæsthetic effect when applied to a sensitive surface.

1,692,696. BENZAMINE BORATE AND PROCESS OF MAKING SAME. WILLIAM JACKSON POPE, Cambridge, England, assignor to The British Drug Houses Limited, London, England, a British Company. Original application filed Mar. 18, 1926, Serial No. 95,785, and in Great Britain July 28, 1925. Divided and this application filed Dec. 7, 1926. Serial No. 153,212. 7 Claims. (Cl. 260—43.)

2. As a new article of manufacture benzamine borate having a composition of approximately one molecular proportion of benzamine to five molecular proportions of boric acid.

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1,692,697. PROCESS FOR THE MANUFACTURE OF BENZAMINE BORATE. WILLIAM JACKSON POPE, Cambridge, England, assignor to British Drug Houses Limited, London, England, a British Company. Original application filed Mar. 18, 1926, Serial No. 95,785, and in Great Britain July 28, 1925. Divided and this application filed Dec. 7, 1926. Serial No. 153,213. 2 Claims. (Cl. 260—43.)

1. A process for the manufacture of a borate of benzamine, which consists in bringing together in a liquid medium benzamine in the form of sulphate and boric acid in the form of a barium compound.

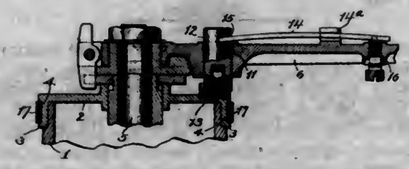
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1,692,698. PHARMACEUTICAL PRODUCT. WILLIAM JACKSON POPE, Cambridge, England, assignor to The British Drug Houses Limited, London, England, a British Company. Original application filed Mar. 18, 1926, Serial No. 95,785, and in Great Britain July 28, 1925. Divided and this application filed Dec. 7, 1926, Serial No. 153,211. Renewed Sept. 11, 1928. 4 Claims. (Cl. 260—105.)

1. A process for the manufacture of borates of anæsthetic bases which consists in bringing together in a liquid an anæsthetic base in the form of sulphate and boric acid in the form of a barium compound.

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1,692,699. DOOR CLOSER. ROBERT S. POTTER, Greenwich, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Apr. 22, 1925. Serial No. 25,087. 4 Claims. (Cl. 16—49.)



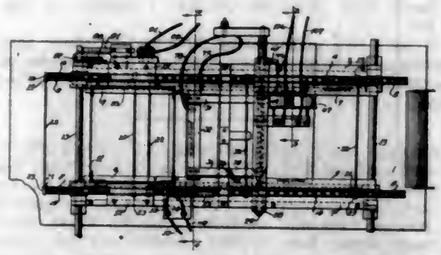
1. The combination with the casing, cover and lever arm of a door closer, of a holding member carried directly by the cover, an engaging member carried by the lever arm for cooperation with said holding member, a clamping band operable to clamp the cover to the casing, and means for anchoring said clamping band to the casing.

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1,692,700. MACHINE FOR REJECTING FAULTY SEPARATORS. FRANK B. RAE and VERNON A. SMITH, Berkeley, Calif., assignors to Western Lumber Manufacturing Co., Incorporated, San Francisco, Calif. Filed Feb. 2, 1927. Serial No. 165,293. 14 Claims. (Cl. 209—81.)

1. In a machine for rejecting faulty separators, a primary circuit, a high tension secondary circuit having a

spark gap therein, means for advancing a separator to pass through the spark gap, the spark gap being arranged to allow a spark to jump thereacross when a defective part of the separator passes therethrough whereby a change



in current is produced in the primary circuit, means for ejecting the faulty separator from the machine and means timed relative to the advance of said separator utilizing the change of current in the primary for rendering the said means active.

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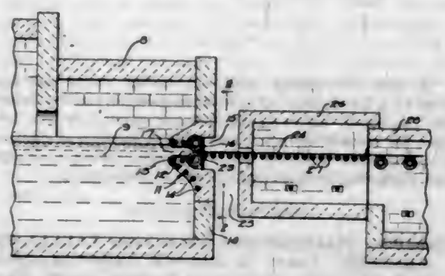
1,692,701. SNAP FASTENER. LUES REITER and ALLAN B. COLBY, Providence, R. I., assignors to Rau Fastener Co., Providence, R. I., a Corporation of Rhode Island. Filed Nov. 5, 1927. Serial No. 231,238. 2 Claims. (Cl. 24—217.)



2. A female snap fastener element comprising a cup-shaped body having a beaded rim and split at its mouth to provide a spring socket having an opening in its bottom, a headed rivet having a hollow shank, the head having a rounded edge and the shank passed through the opening and upset against the bottom of the cup, and a ring having one of its edges rolled, said ring being mounted on the body in engagement with the head of the rim with its rolled edge projecting beyond the bottom of the socket of said body.

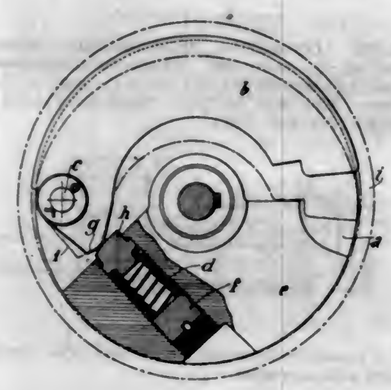
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1,692,702. METHOD AND APPARATUS FOR FORMING SHEET GLASS. JOSEPH A. REECE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 19, 1926. Serial No. 102,843. 29 Claims. (Cl. 49—33.)



2. In an apparatus for producing a continuous sheet of glass, a tank for containing a mass of molten glass, an end wall extending inwardly and rearwardly thereof, said wall having an orifice therein, and a sheet glass rolling means associated with the orifice.

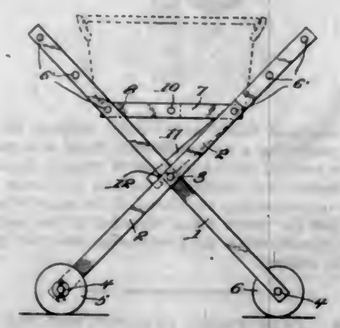
1,692,703. CONSTRUCTION OF AUTOMATIC CLUTCHES PROVIDED WITH A CENTRIFUGAL MASS. MAURICE JEAN JOSEPH RIOOLAOB, Paris, France, assignor to Société d'Eugins Graisseurs, Paris, France. Filed Oct. 13, 1924, Serial No. 743,426, and in France Oct. 24, 1923. 2 Claims. (Cl. 192—105.)



1. In an automatic clutch, a drive plate, a drum loosely mounted with respect to the plate, and constituting an oil-tight casing enclosing the plate, a clutch shoe pivoted to the plate, said plate having a passage therein, a thrust member guided in said passage, an adjustable stop member in said passage, a coil spring located in the passage intermediate the stop and thrust members, an inclined face on the thrust member, said clutch shoe having an inclined face corresponding with the inclined face of the thrust member, the respective profiles of said inclined faces being formed in such manner that when said shoe has entered into contact with the drum to effect clutching the point of contact between them is moved into line with the axis of the shoe and the axis of movement of the thrust member.

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1,692,704. CLOTHES BASKET CARRIER AND RACK. CLARA E. ROHRIG, Davenport, Iowa. Filed Mar. 21, 1928. Serial No. 263,514. 1 Claim. (Cl. 280—43.)

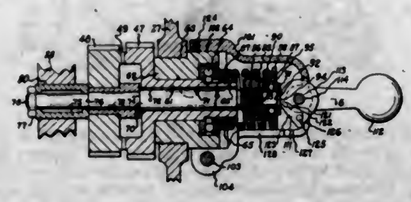


In a device for the purpose set forth, four legs arranged in crossed pairs, a rod pivotally connecting the legs, rollers on which the legs are mounted, spaced rounds connecting the legs above the pivot rod, comparatively long plates pivoted on the lower round of one pair of legs and having beveled ends to contact with the inner edges of the second pair of legs when the device is arranged in one position, comparatively short plates pivoted on the lower round for the second pair of legs and a pivot rod connecting the comparatively long plates with the free ends of the comparatively short plates, and a hook member pivotally secured on one of the lower rounds, swingable to engage with the pivot which connects the legs and likewise swingable to engage with the lower round of the second pair of legs when the said comparatively long and comparatively short plates are swung at opposite upward angles.



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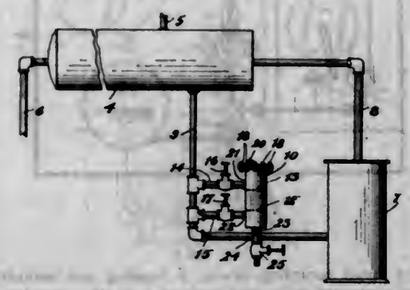
1,692,705. CLUTCH-ACTUATING MEANS FOR MACHINE TOOLS. WILLIAM L. SCHELLENBACH, Wyoming, Ohio, assignor to The American Tool Works Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 3, 1927. Serial No. 172,404. 4 Claims. (Cl. 82—22.)



1. The combination, in a lathe, of a tool-holder, a lathe apron, and means on said lathe apron for feeding said tool-holder comprising a driving member journaled and held endwise in said lathe apron, a shaft slidable endwise in and held rotatively to said driving member, a driven member at one side of said driving member held endwise to said shaft, said shaft rotatable in said driven member, a clutch between said members, a spring about said shaft at the other side of said driving member, means on said shaft for adjusting the tension of said spring, an end-thrust bearing for said shaft, a housing on said apron about said spring and end-thrust bearing, means securing said housing to said apron independent of support by said shaft, and a cam lever pivoted to said housing and arranged for coaction with said end-thrust bearing.

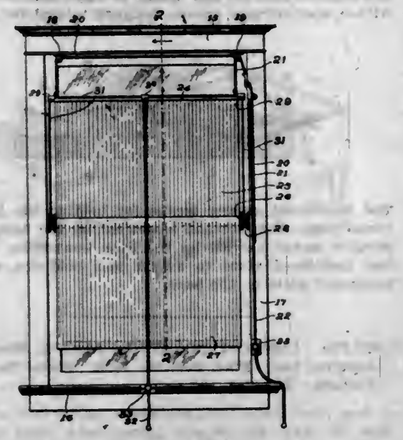
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1,692,706. RUST PREVENTION. RALPH A. SEALEY, Newark, N. J. Filed May 18, 1927. Serial No. 192,853. 1 Claim. (Cl. 210—36.)



In a water handling system, the combination of a water heater, a hot water container, a hot water line from the heater to said container, a cold water line from said container back to the heater, a receptacle for a rust minimising material, a valved connection from said cold water line to a point on said receptacle, a valved connection from a lower point on said receptacle back to said cold water line, and a drain connection from still a lower point on said receptacle, there being within said receptacle a perforate means for supporting said material to hold the bottom level thereof above the valved connection from the receptacle to the cold water line.

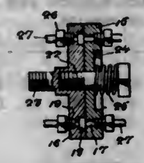
1,692,707. WINDOW SHADE. ARTHUR D. SEARS, Nashville, Tenn. Filed June 28, 1924. Serial No. 722,927. 2 Claims. (Cl. 156—27.)



1. In a shade structure, a roller having a shade extended in opposite directions therefrom, a vertically movable mounting for the roller, means to shift the mounting and separate means to extend and retract the shade, the means to extend the shade including a cord attached to the shade extremity, and the means to shift the mounting including also a cord, the two said cords connected to form a continuous element extending from the shade mounting to the shade end, means forming a common adjustment for the cords, and means to take up one of the cords only, at will, being included in the structure.

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1,692,708. JOINT. ERNEST J. SERPAS, New Orleans, La. Filed Aug. 22, 1925. Serial No. 51,780. 1 Claim. (Cl. 285—21.)



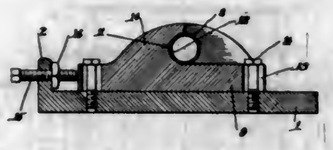
A lubricant coupling joint comprising stationary and movable sections, a stud carried upon the stationary section for anchoring the same upon its work, the inner face of the stationary section being provided with circumferentially disposed recesses having discharge openings at right angles to the face of the stationary member, the movable section lying flush agains tthe recessed face of the stationary section and having openings adapted for selective communication with the openings in the stationary section, a pin passed through the movable section and having connection with the stationary section axially of the stud therefor, and a spring encircling the pin and having its ends in engagement with the pin and the outer surface of the movable section to resiliently seat the latter upon the stationary section to prevent leakage between the sections incident to back pressure of lubricant.

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1,692,709. BEARING BOXING. SAMUEL A. SHIELDS, Eureka, Calif. Filed Nov. 26, 1927. Serial No. 235,937. 2 Claims. (Cl. 308—65.)

1. A bearing for a line shaft including a base, and having integral rightangularly disposed spaced plates on one of the faces thereof, each of said plates having one of their ends arched upwardly and merging into a straight face

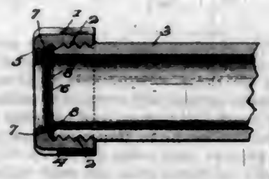
which has a semi-circular groove therein, a second plate slidable between the first mentioned plates and having an upwardly arched portion whose straight face is provided with a semi-circular groove designed to register with the



first mentioned groove, means for holding the last mentioned plate from vertical movement on the base and adjustable means carried by the base, contacting with the last mentioned plate to adjust and hold the said last mentioned plate on the base.

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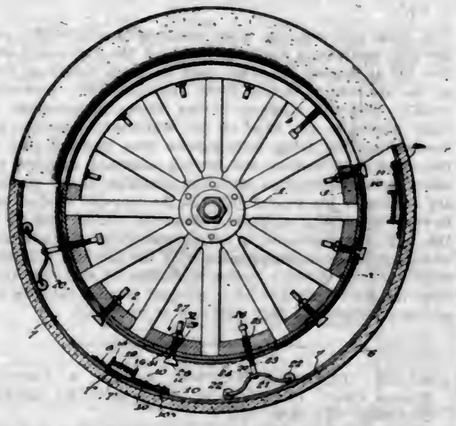
1,692,710. CONDUIT BUSHING. JOHN A. SPAHN, Wilmington, Del. Filed Feb. 25, 1925. Serial No. 11,616. 1 Claim. (Cl. 247—26.)



A conduit bushing having a rounded enlargement upon its outer end which projects inwardly beyond the bore of the bushing and opposes one end of a conduit upon which the bushing is received, and a sealing disk of deformable and malleable metal for closing the outer end of the bushing and having a relatively thick edge portion to be clamped between the rounded enlargement and conduit end whereby such edge portion will be mashed to lock the bushing against counter rotation and to afford a seal between the conduit and bushing.

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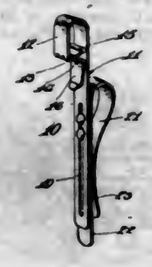
1,692,711. VEHICLE SPRING TIRE. LITCH J. SWARTZ, Wenatchee, Wash. Filed May 21, 1926. Serial No. 110,726. 6 Claims. (Cl. 152—8.)



3. A spring tire for vehicle wheels comprising a supporting ring comprising a plurality of cooperative sections having complementarily beveled meeting end portions, compression spring means urging adjacent sections of said ring apart and tending to expand said ring circumferentially, and adjustable spring means for resiliently supporting said ring on the rim of a wheel.

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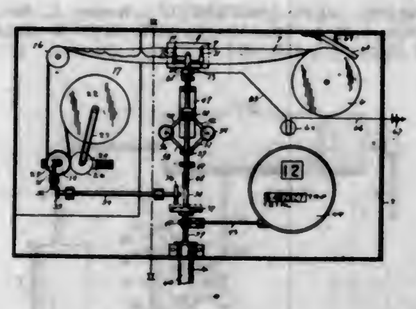
1,692,712. POCKET GUARD. CARL TANNEBAUM, New York, N. Y. Filed Dec. 30, 1927. Serial No. 243,716. 1 Claim. (Cl. 24—3.)



A pocket guard comprising an elongated body member bent upon itself at one end to provide an arm, a clamping device pivoted to said arm and adapted to co-act with said body member for clamping the wall of a pocket therebetween, said elongated member having an elongated slot therein, and a spring clip provided with headed pins extending through said slot for slidably mounting said clip upon said body member.

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1,692,713. AUTOGRAPHIC SPEED RECORDER. LEONARD A. WEBER, San Francisco, Calif. Filed Mar. 4, 1927. Serial No. 172,851. 1 Claim. (Cl. 234—31.)



In a speed recording device, a housing and actuating means connected with said housing, a shaft connected to said actuating means, a second shaft in axial alignment with said first mentioned shaft, a spring interposed between said shafts, and connected to each of said shafts, a governor secured to said second mentioned shaft, and adapted to move said shaft endwise, a stylus adapted to be moved through the endwise movement of said shaft, a tape passing beneath said stylus, means for moving said tape, said means comprising a friction disc secured on said first mentioned shaft, a second friction disc adapted to be contacted by said first mentioned disc, a driving drum over which said tape is reaved, and means for rotating said driving drum from said second mentioned friction disc.



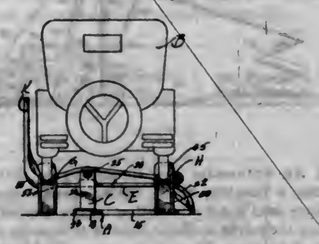
1,692,714. PROJECTING FIGURE WHEEL TOY. CLARE A. WETZELL, Sterling, Ill. Filed Nov. 12, 1926. Serial No. 148,080. 10 Claims. (Cl. 46—45.)



1. A toy including a body having a recess formed in an end portion thereof, supporting members pivotally connected to the body portion, said body portion being adapted to be pivoted relative to said supporting members, kick-off members pivotally connected to the body portion at said end portion and adapted to pivotally move relative to the body portion when said body portion is pivoted relative to said supporting members, means normally confined in said recess under tension for pivoting said kick-off members relative to the body portion, means for releasably holding said kick-off members in a position to increase the tension of said pivoting means, and means connected to said body portion for pivoting the body portion relative to said supporting members to release the kick-off members from said holding means whereby said kick-off members will be pivoted relative to the body portion in kick-like action by action of said pivoting means, and a member positioned in the path of movement of said kick-off members and adapted to be projected free from the body portion by pivotal movement of the kick-off members in a direction to strike an object remotely positioned from the body.

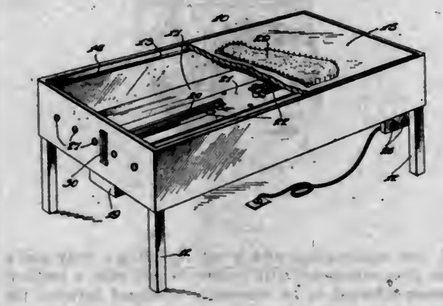
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1,692,715. TILTING DEVICE FOR VEHICLES. ALVA WILLIAMSON, San Bernardino, Calif. Filed Apr. 15, 1926. Serial No. 102,266. 9 Claims. (Cl. 214—1.)



1. In a vehicle tipping device the combination of a supporting base, an elongated frame pivotally mounted longitudinally thereof for transverse tipping, said frame having vehicle wheel receiving trackways thereon in parallel relation, and disposed parallel with respect to the pivot axis of the frame, one of said trackways being disposed closer to the pivot axis of the frame than the other trackway, that trackway which is disposed closest to the pivot axis of the frame having an inclined entrance and exit runway thereon pivotally mounted with respect to the trackway for swinging out of alignment therewith laterally toward the other trackway.

1,692,716. FUR-DRYING APPARATUS. HENRY A. ALTER, Yonkers, and MORRIS SCHWARTZMAN, New York, N. Y. Filed Mar. 7, 1928. Serial No. 259,779. 9 Claims. (Cl. 34—26.)



7. In a fur drying apparatus, a heated oven, and a reversible panel constituting one of the walls of said oven and adapted to have the pelts to be dried applied to the exterior side of the same and the panel reversed to dispose the pelts within the oven to subject them to the action of the heat therein.

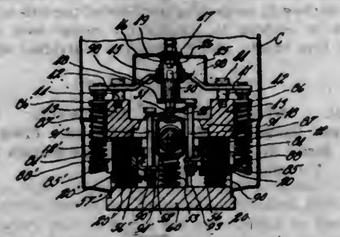
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1,692,717. METHOD OF TREATING SPUN YARNS IN THE COURSE OF THEIR MANUFACTURE. JAMES J. BOYLE, New York Mills, N. Y. Filed Aug. 27, 1926. Serial No. 132,032. 4 Claims. (Cl. 118—69.)

1. The method of treating spun rayon yarns which consists in subjecting the yarn in the presence of moisture to a reverse twisting after the yarn has been completely spun to thereby improve the luster.

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1,692,718. MAGNETO. PHELPS BROWN, Springfield, and IRA E. HENDRICKSON, West Springfield, Mass.; said Hendrickson assignor to Wico Electric Company, West Springfield, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1926. Serial No. 152,487. 27 Claims. (Cl. 123—149.)



1. In a magneto, having two magnetic circuits including two sets of magnetic poles, reciprocable means forming part of said circuits for connecting first one and then the other of said sets of poles, a normally short circuited choke winding for each magnetic circuit, a generating winding for each circuit, a single set of relatively movable breaker points for simultaneously opening and subsequently simultaneously closing said choke windings, and means operable first from one armature and then from the other for separating said breaker points at an intermediate point in the flight of each armature away from its poles, and connections between said generating windings for merging the currents produced therein.

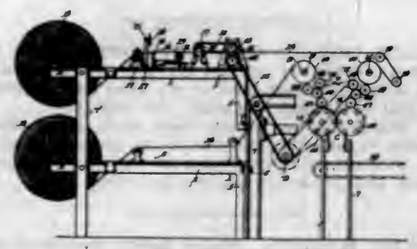
1,692,719. CAP FASTENER. RUTH BUSEY, Seattle, Wash. Filed Jan. 3, 1928. Serial No. 244,292. 2 Claims. (Cl. 132—59.)



1. The combination with a cap including a body and a front piece superposed with respect to said body, a resilient fastener adapted to be removably arranged between the body and front piece for the purpose of securing the cap to the wearer's head.

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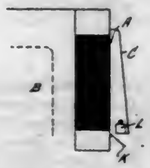
1,692,720. WEB-CONVERTING APPARATUS. WILLIAM H. CANNARD, Green Bay, Wis. Filed May 7, 1926. Serial No. 107,474. 12 Claims. (Cl. 270—39.)



1. The herein-described method of producing folded crepe products from a traveling web of material which includes the steps of spreading the web, moistening the spread web, subjecting the moist web to pressure against one of its surfaces to transversely narrow it, subjecting the web to pressure upon both surfaces to corrugate and further narrow it, subjecting portions of the web to unequal pressure to emboss it, drying the moist web, severing the web into sheets, and folding the individual sheets.

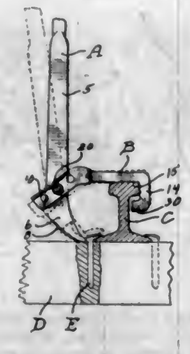
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1,692,721. MOTOR-VEHICLE RADIATOR. RICHARD HERBERT CARPMAEL, Moulton, England. Filed Feb. 2, 1928, Serial No. 251,385, and in Great Britain Nov. 22, 1926. 1 Claim. (Cl. 257—132.)



In combination with a radiator and its core, a shield at the front of the core restricting the entrance of air and insuring entrance thereof at the lower end of the core, heating means carried by the shield at its lower end, and an air-regulating shutter carried by the lower part of the radiator, said shutter being movable toward and away from said end.

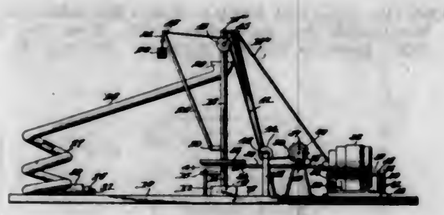
1,692,722. CLAW BAR. ALBERT E. DAYTON and JAMES V. CARLSEN, Pocatello, Idaho. Filed June 20, 1927. Serial No. 200,140. 3 Claims. (Cl. 254—25.)



1. A device of the class described comprising a lever bar embodying a handle portion and a shoe portion having claws provided at its end for engaging beneath the head of a track spike, a rail engaging member embodying a head portion provided with a laterally projecting tread plate, and a hooked portion formed at the opposite end of the member from said head for engaging over the ball of a rail, and means pivotally and adjustably connecting the lever bar at its shoe portion to the head of the rail engaging member against movement of the member transversely of the bar.

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1,692,723. AUTOMATIC TOY CRANE. GARRETT B. DOWNS, Mauch Chunk, Pa. Filed Apr. 23, 1924. Serial No. 708,596. 3 Claims. (Cl. 46—37.)



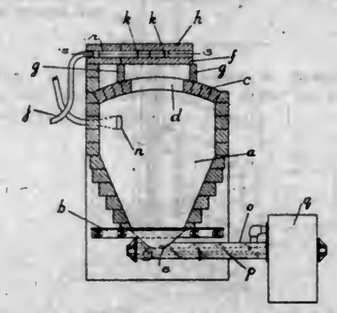
2. An automatic toy simulating a crane or the like having a turnable shaft, lifting means thereon, means to actuate said shaft and lifting means, the second mentioned means including a motor, means to reverse the direction of flow of current through the motor including a rocker and associated contacts, electro-magnets to actuate said rocker, a contact extending from the shaft, and contacts in circuit wtih said magnets engageable by the last contact.

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1,692,724. GAS PRODUCER. FREDERICK LINDLEY DUFFIELD, Brassington, England. Filed Jan. 10, 1924, Serial No. 685,296, and in Great Britain Mar. 19, 1923. 4 Claims. (Cl. 48—63.)

2. A gas producer comprising a gas generating chamber of conoidal form having a gas outlet in the top, means for introducing powdered carbonaceous matter into the generating chamber, means for introducing primary air and means for introducing steam for causing gasification within the chamber, means for admitting secondary air to unite with the gas, said means comprising refractory plates spacedly positioned above the gas outlet in the chamber,

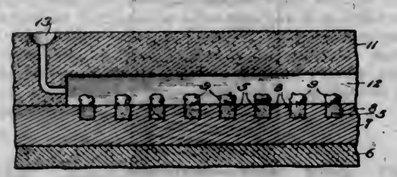




means for admitting the secondary air between the said plates, means provided between said plates for distributing said secondary air, and means for supplying the steam to the generator from an aperture provided in its base.

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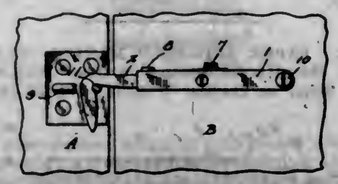
1,692,725. MANUFACTURE OF ARTICLES ADAPTED TO RESIST ABRASION. RALPH S. EDMONDSON, Elizabeth, N. J., and EUGENE HAHN, Philadelphia, Pa., assignors to American Abrasive Metals Company, a Corporation of New York. Filed Feb. 9, 1926. Serial No. 87,019. 3 Claims. (Cl. 22—202.)



1. The method of casting chilled metal articles with wear-resisting inserts, which method consists in providing a mold with a permanent chill-section formed with recesses, filling said recesses with non-chill material, anchoring to said non-chill material the wear-resisting elements, and pouring into the mold the molten metal without incorporating the non-chill material in the resultant casting.

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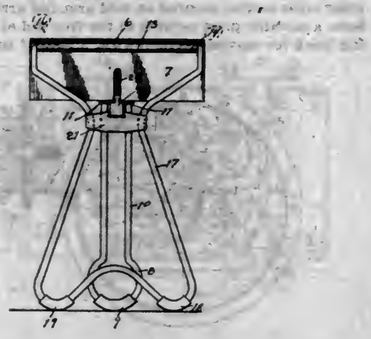
1,692,726. DOOR HOOK. MAURICE A. ESTABROOKS, Augusta, Me. Filed July 25, 1927. Serial No. 208,350. 2 Claims. (Cl. 292—113.)



1. A latch of the class described comprising a pivoted part and a hook part, a guide on the pivoted part through which the other part passes, a plate pivoted to the pivoted part and having one end pivoted to the inner end of the hook part and a lever connected with the plate for turning the same on its pivot to project and retract the hook part and also to raise and lower the hook part as it is projected and retracted.



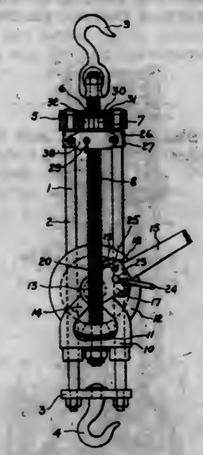
1,692,727. BOOKHOLDER. JAMES W. GRABHART, Fresno, Calif. Filed Sept. 12, 1927. Serial No. 219,067. 3 Claims. (Cl. 45—80.)



1. A book holder comprising a substantially U-shaped member, a brace extending from the base of said U-shaped member, a support pivotally secured to one of the sides of said U-shaped member and a locking device interposed between said brace and U-shaped member.

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1,692,728. ROPE PULLER. JOSEPH OSCAR GRENIER, Vancouver, British Columbia, Canada. Filed Sept. 15, 1927. Serial No. 219,769. 4 Claims. (Cl. 254—67.)



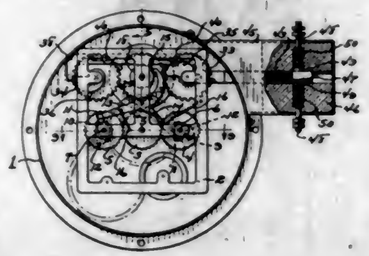
1. In a rope puller comprising a pair of slides connected by transverse members, one of said members having a recess, a screw rack adapted for attachment to the rope to be pulled and having endwise movement through said recess, a split nut engaging said screw rack and normally housed in said recess, said nut comprising a pair of half portions slidably connected to a collar slidably movable along the screw rack, and means for imparting parallel movement to the half portions.

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1,692,729. CLOCK AND TIME CONTROLLED SWITCH FOR ELECTRIC LIGHTS. FRANK GROSSI, Providence, R. I. Filed Jan. 27, 1927. Serial No. 164,047. 4 Claims. (Cl. 200—40.)

1. In a device of the character described, a clock, a time controlled switch associated with said clock and including a

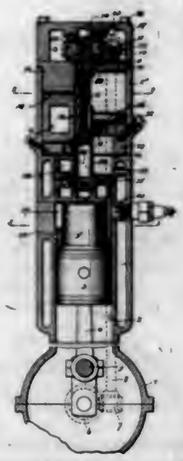
casing laterally disposed and secured to the casing of the clock, an arm mounted for reciprocation in the clock casing, insulating material arranged in said first mentioned casing and being provided with a bore, an insulating block of circular cross section secured on said arm and arranged in said bore, a metallic piece secured to the free end of said insulating block for movement therewith, a pair of spaced binding



posts arranged in alignment in bores formed in said insulating material, heads on said posts and being arranged in the path of the insulating block and metallic piece respectively, means on one of said heads and being engageable in grooves formed in the metallic piece and said insulating block, and mechanism operated by the clock mechanism for reciprocating said arm at predetermined times.

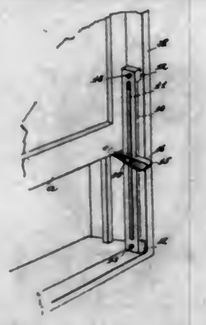
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1,692,730. INTERNAL-COMBUSTION ENGINE. EMIL C. GUNDELACH, New Rochelle, N. Y., assignor of one-half to Robert J. Ehlers, New York, N. Y. Filed Feb. 1, 1927. Serial No. 165,181. 6 Claims. (Cl. 123—80.)



1. An internal combustion engine comprising a cylinder provided with an inlet port and an exhaust port, an ignition device carried by said cylinder, said ignition device and ports being approximately in the same horizontal plane with the ignition device positioned intermediate said ports, a piston adapted to reciprocate in said cylinder, said piston having a reduced upper extension, a reciprocating and rotary valve positioned in the upper end of said cylinder and provided at its lower portion with a working chamber into which said extension of the piston extends, said valve having a single port adapted to register successively with said inlet port, said ignition port and said exhaust port, a series of stationary cams, and a series of movable cams coacting with said valve for causing the same to rotate and reciprocate in proper time with the movement of the piston.

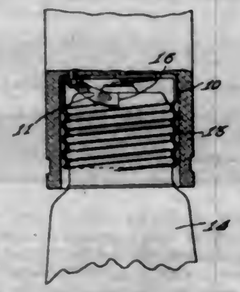
1,692,731. WINDOW-SASH HOLDER. ANTON M. GUNDERSON, Ironwood, Mich. Filed Nov. 22, 1927. Serial No. 235,075. 2 Claims. (Cl. 292—67.)



1. A sash holding means, including a strip adapted to be secured vertically on a window frame, and a sash holding element movable along said strip and vertically rockable, said sash holding element having a lateral member adapted to bind against said strip at the side edge thereof when said element is projected beneath the window sash.

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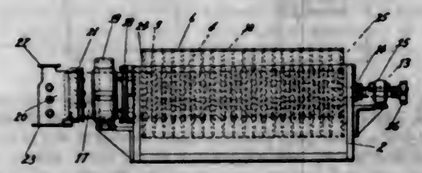
1,692,732. ELECTRIC-LIGHT SOCKET AND BULB BASE. PAUL S. HALL, Austin, Minn., assignor of one-half to Gustav J. Voss, Austin, Minn. Filed Sept. 22, 1926. Serial No. 137,095. 1 Claim. (Cl. 173—356.)



The combination with an electric light socket, a lamp bulb base received by said socket and having a peripheral inclined surface and a vertical shoulder formed thereon, and a horizontally disposed flat resilient finger terminally secured to the base of said socket and spaced therefrom, said finger being twisted at a point in its length to position its free end tangentially to the bulb base and contact said shoulder for locking the bulb against movement within the socket.

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1,692,733. PAPER AND PULP MAKING CYLINDER MOLD. TOM HARVEY, Middletown, Ohio. Filed Aug. 23, 1927. Serial No. 214,954. 1 Claim. (Cl. 92—43.)



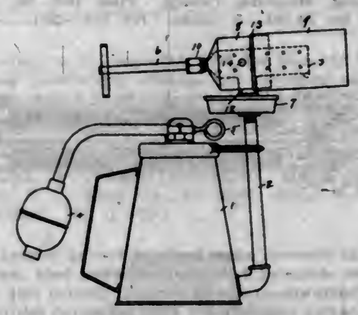
In a paper making machine the combination of a pulp vat, a cylinder mold within the vat, said mold having closed ends, a hollow tubular axial support extending



through said mold having suction apertures, said support having spiders fixedly mounted thereon supporting said mold, a plug in one end of said support having a drive shaft connected therewith, said support having its other end open, and means for connecting said open end with a water and air escape line.

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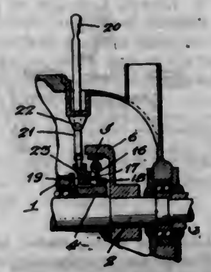
1,692,734. BLOWTORCH. WARREN W. HASLETT, Baltimore, Md. Filed June 21, 1927. Serial No. 200,485. 1 Claim. (Cl. 158—33.)



The combination with a burner, of an air and gasoline receptacle, a pipe connecting said receptacle with the burner, a needle valve to control the flow of air and gasoline to the burner, a wind shield surrounding said burner and comprising two sections, one of which sections is removably fitted to the needle valve stem and is provided with a cut out portion which fits around the lower portion of the burner and an annular shoulder on its outer surface and the other section being removably fitted over the end of the first named section and adapted to impinge against said annular shoulder.

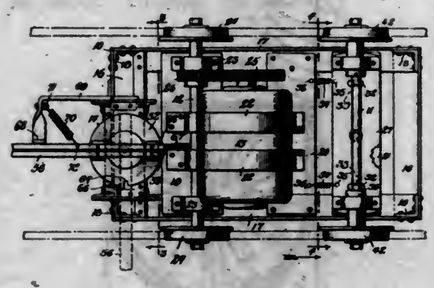
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1,692,735. ELECTROMOTOR. BJÖRN HEGER, Vestre Aker, near Oslo, Norway. Filed Feb. 16, 1925, Serial No. 9,691, and in Norway May 14, 1924. 1 Claim. (Cl. 172—120.)



In an electric motor having its rotor loosely mounted on the motor shaft, a centrifugal friction coupling adapted to interconnect said rotor and said shaft on said shaft attaining a predetermined speed comprising a two part coupling having one part fixedly mounted on the rotor and the other part fixedly mounted on the shaft within the motor housing, said members adapted to frictionally engage one another, a handle extending through the casing of the motor, and means associated with said handle and said centrifugal friction coupling whereby upon the actuation of said handle the centrifugal friction members are prevented from engaging.

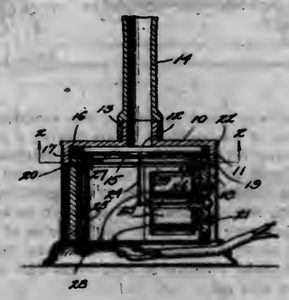
1,692,736. RABBIT-CARRYING TRUCK FOR GREYHOUND RACING. GEORGE WILLIAM HEINTZ, New Orleans, La. Filed Oct. 20, 1926. Serial No. 142,916. 2 Claims. (Cl. 272—4.)



1. On a truck, a turn table at the rear, a lure carrying arm carried by said turn table, said turn table having radial notches therein, a pivoted member in advance of said turn table, said pivoted member having a holding portion, said pivoted member positioned with respect to the turn table so that said holding portion will be movable into and out of each of said notches, means acting on said member and having a normal tendency to move said holding portion toward said turn table and operative to move said holding portion into a notch when brought into registration with said holding portion, means constantly acting on said arm for effecting the movement of the arm to a non-luring position when said member has been moved to disengage the holding portion, and means rigidly secured which is encountered by said arm limiting the movement of said arm by said last means.

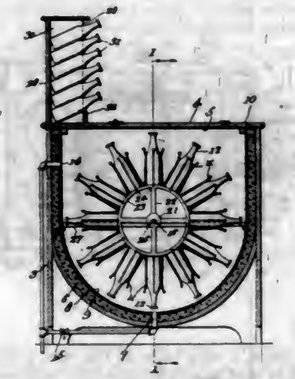
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1,692,737. BASE FOR LOUD-SPEAKER UNITS. JOHN S. HEMMING, Salt Lake City, Utah, assignor to Fidelity Radio Corporation, Salt Lake City, Utah. Filed Jan. 15, 1927. Serial No. 161,376. 1 Claim. (Cl. 179—179.)



In a reproducer unit, a receptacle, a cover for the top of the receptacle, said cover having a sound escape opening therein, a flange carried by the cover and extending into the top of the receptacle and having an annular groove upon its inner face, a diaphragm within the flange and spaced from the cover, a gasket bearing upon the diaphragm, a cross sectionally flat ring within the flange and bearing upon the gasket, a split ring within the groove of the flange to hold the parts assembled, actuating means for the diaphragm, means within the receptacle to mount said actuating means, and means connecting the flat ring with the means to mount the diaphragm actuating means to hold the parts assembled.

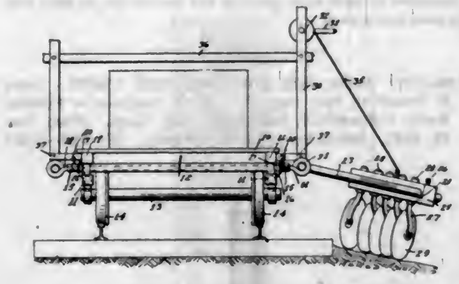
1,692,738. CONTAINER FOR COOLING BOTTLED LIQUIDS. FRANK N. HENKEL, Hammond, La. Filed July 21, 1927. Serial No. 207,458. 4 Claims. (Cl. 312—36.)



2. A container for cooling bottled liquids comprising a cooled cabinet, a shaft in the cabinet having spaced flanges, spiders spaced by the flanges and joined at their outer portions, and bottle-holding means on the outer portions of the spiders.

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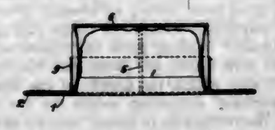
1,692,739. WEED-DESTROYING ATTACHMENT FOR RAILWAY CARS. MARTIN HOLLAND, Laurens, Iowa. Filed Nov. 9, 1926. Serial No. 147,258. 4 Claims. (Cl. 37—105.)



1. In a railway weed destroyer, the combination with a railway car, of an auxiliary frame having a pair of laterally extending pivoted arms, a beam adjustably secured to the free ends of said arms to move toward and from said car and capable of having its angularity adjusted relative to the line of advance of said car, means for elevating and lowering said beam, and a series of disks carried by said beam, and means for adjusting the angle of each of said disks relative to said beam and to the line of advance of said car.

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1,692,740. HAT. ALBERT CONRAD HUBER, Zurich, Switzerland. Filed Oct. 1, 1927. Serial No. 223,380. 1 Claim. (Cl. 2—180.)



A method of manufacturing hat frames of sheet metal, consisting in cutting a brim part including two rings connected by arms and connecting members projecting from the inner ring out of sheet metal, cutting a ring forming the crown and also having connecting members out of sheet metal, bending the first connecting members upwardly and the last mentioned connecting members downwardly, bending the free ends of all of the connecting members at right angles, and fixing certain of the right angular ends to the brim and others of said ends to the crown.

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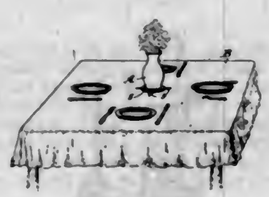
1,692,741. ELECTRIC HEATER. WILLIAM HURST, Winnipeg, Manitoba, Canada. Filed Dec. 10, 1925. Serial No. 74,581. 5 Claims. (Cl. 219—39.)



4. In an electrical water heater, a heating element comprising an elongated cylindrical insulating body provided with a lengthwise extending centrally located bolt opening and having concentrically arranged spaced coil receiving openings passing lengthwise therethrough and slots connecting the ends of the coil receiving openings, insulating closure caps applied on the ends of the body, a bolt fastening the caps to the body and passing through the bolt opening aforesaid, binding posts carried by one of the caps, a heating coil passing successively through the coil receiving openings and across the slots and having the end terminals passing through the adjacent end cap and connected to the binding posts and a cylindrical guard cap provided with pockets to receive and enclose the outer ends of the binding posts and with outlet holes for feed wires leading to the posts.

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1,692,742. PLACE INDICATOR FOR TABLES. CHARLES F. JACOBS, Brooklyn, N. Y. Filed July 10, 1928. Serial No. 291,660. 5 Claims. (Cl. 116—114.)

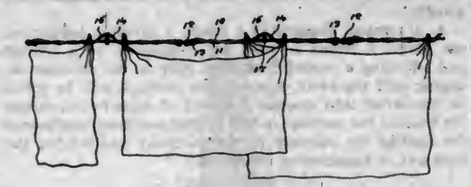


1. A place indicator for dining tables, including a support, and pointer elements bearing identification indicia detachably associated with the support and pointing outwardly toward the places to be indicated.

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1,692,743. CLOTHESLINE. THOMAS J. JAMES, Buckner, Va., assignor of one-half to Edward W. Higgins, Crewe, Va. Filed June 22, 1927. Serial No. 200,784. 1 Claim. (Cl. 68—3.)

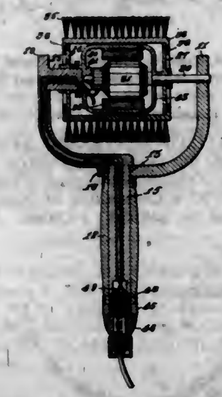
A clothes line comprising a plurality of identically constructed links arranged in end to end relation, each link including two strands one of said strands having a substantially straight portion terminating to provide eyes whereby the links are pivotally connected and permitted to fold when not in use, the other of said strands being twisted in opposite directions about the straight portion of the first mentioned strand and having is intermediate portion coiled about the first mentioned strand and offset to provide loops adapted to receive the corner ends of



the article to be suspended from the line, the loops including intertwisted portions, and the outer extremities of said second mentioned strand being coiled about the eyes of the first mentioned strand.

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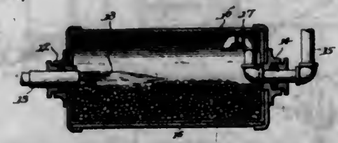
1,692,744. MOTOR-DRIVEN BRUSH. MAX KAPLAN, Passaic, N. J. Filed Sept. 22, 1926. Serial No. 137,094. 1 Claim. (Cl. 15—23.)



1. A flagman's kit comprising a cylindrical casing having one end two spaced elements forming a fork, one of said elements being rigid with the handle and the other element mounted on the fixed element to rotate about the axis of the handle, said fixed element having mounted thereon a motor and housing therefor, the shaft of the motor having an extension beyond the housing for mounting in said rotatable element, and a brush detachably connected to said extension.

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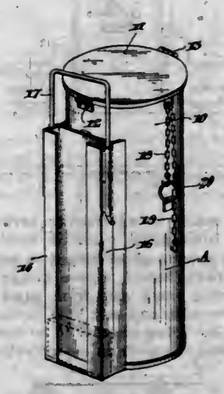
1,692,745. METHOD OF TREATING BONE BLACK OR CHAR. WILLIAM WALLACE KEMP, Baltimore, Md. Filed Oct. 28, 1924. Serial No. 746,321. 5 Claims. (Cl. 252—3.)



1. The method of revivifying char, which consists in enclosing the char in a container, burning within the container a gaseous body, homogeneously premixed outside the container and composed of fuel gas and air, the proportion of air not exceeding that required to furnish oxygen necessary to effect combustion of the gas, while excluding other air from the container, and discharging from the container the products of combustion and vapors and gases released by the treatment.



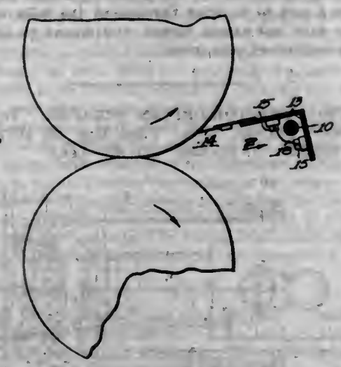
1,692,746. FLAGMAN'S KIT. WILLIAM LEACH, deceased, Moose Jaw, Saskatchewan, Canada, by Norman William Leach, administrator, Moose Jaw, Saskatchewan, Canada, assignor of one-half to Clarence W. Leach, Ottawa, Ontario, Canada. Filed May 6, 1927. Serial No. 189,411. 2 Claims. (Cl. 246—488.)



1. A flagman's kit comprising a cylindrical casing having an open end provided with a hinged cap, a magazine member on the outside of the casing adapted to detachably carry torpedoes, a handle connected to the magazine, a tubular member open at the top adapted to be suspended within the casing, a signalling flag with a pole formed of hinged foldable sections designed to fit within the tubular member, rings pivoted on opposite sides of the container outside, slots in the top of the casing registering with said rings, carrying chains connected to the rings and adapted in an inoperative position to engage with said slots to permit the chains to fit within the casing when not in use.

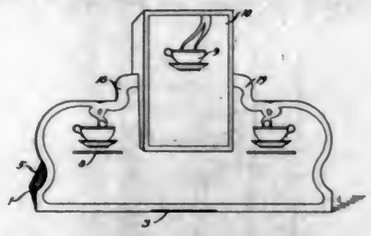
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1,692,747. CALENDER DOCTOR. CARL G. LINDSTROM, Worcester, Mass., assignor to Rice, Barton & Fales, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1927. Serial No. 232,881. 3 Claims. (Cl. 92—74.)



3. In a doctor support, the combination with a shaft, and a doctor back for carrying the doctor, of means for applying the turning movement of the shaft to the doctor back at the center only and means for freely supporting the doctor back near its ends.

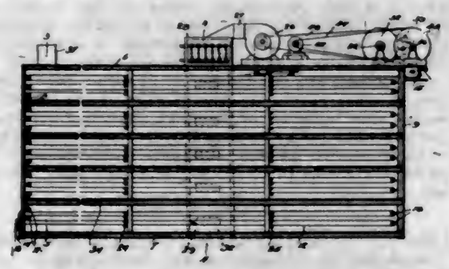
1,692,748. DISPLAY STAND. EDWIN A. LOCKE, Jr., Arlington, Mass., assignor to The Nevins Church Press, New York, N. Y., a Corporation of New Jersey. Filed Mar. 14, 1928. Serial No. 261,652. 4 Claims. (Cl. 211—157.)



2. A display stand or advertising device, comprising an ornamented front panel provided with a notch centrally thereof, a bracing panel hinged to said front panel near the upper part thereof, a base hinged to the lower edge of said bracing panel, said front panel having a slit at the front lower edge and said base having a tab at its front edge, said tab being adapted to be inserted through said slit for holding the parts in operative position.

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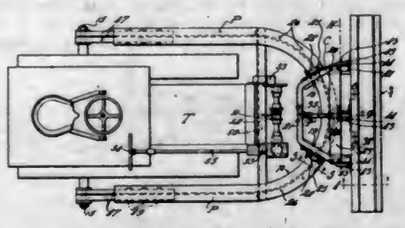
1,692,749. DRIER. ABNER JUDSON LURRY, New Orleans, La. Filed Jan. 26, 1928. Serial No. 249,717. 4 Claims. (Cl. 34—49.)



1. A drier comprising a drying chamber having outlets for saturated gas at opposite ends and inlets for drying medium at opposite sides of its central portion, a cellular interior structure within the chamber, means to movably support a web to be dried throughout the cells, means for driving said last-named means, and means to supply the drying medium to said inlets.

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1,692,750. TRACTOR-DRIVEN SCRAPER. VINCENT P. MARRAN, Holyoke, Mass. Filed Mar. 15, 1927. Serial No. 175,521. 11 Claims. (Cl. 37—144.)

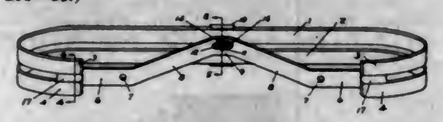


1. A scraper, comprising, supporting and driving means adapted for attachment to a tractor, a carriage mounted on said means for angular adjustment relative thereto about a vertical axis, a blade pivoted to the carriage on a horizontal axis, and stops provided on said carriage to limit the rearward swinging movement of the blade and to abut the blade when the same is propelled forwardly, said blade being free to swing forwardly about its pivotal connection to said carriage while it is being drawn rearwardly.

3. A scraper, comprising a blade, a carriage supporting the blade, a frame adapted for connection to a tractor and affording a curved trackway, rolls on the carriage engaging said trackway, whereby the carriage may be rolled on the latter into various positions of adjustment, means for holding the carriage in any of said positions, and means for binding the carriage to the trackway and forcing the rolls out of engagement therewith.

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1,692,751. BUMPER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Central Brass and Fixture Company, Springfield, Ohio, a Corporation of Ohio. Filed Mar. 5, 1928. Serial No. 259,059. 10 Claims. (Cl. 293—55.)



7. In a bumper, spaced bumper bars and a supporting bar attached thereto at its ends rigidly and its center slidably.

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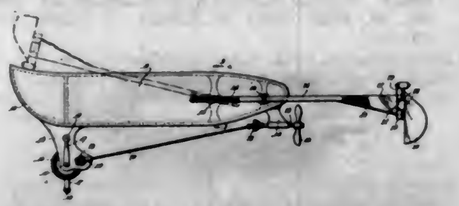
1,692,752. TIRE-CHAIN FASTENER. ARCHIBALD LACHLAN MCKINNON, St. Catharines, Ontario, Canada, assignor to The Columbus-McKinnon Chain Company, Tonawanda, N. Y., a Corporation of Ohio. Filed Dec. 12, 1927. Serial No. 239,430. 4 Claims. (Cl. 24—68.)



1. A fastener for a side chain of an anti-skid chain including a hook connected with one end of the side chain and a keeper therefor, said hook having its free end formed with two recesses, one beyond the other to be engaged by said keeper.

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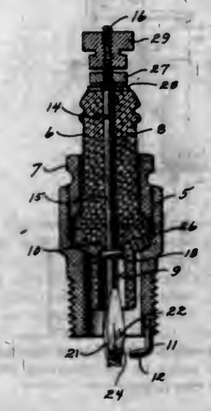
1,692,753. SWIMMING DEVICE. CHRISTIAN MEYER, New York, N. Y. Filed July 13, 1927. Serial No. 205,409. 1 Claim. (Cl. 9—18.)



A swimming device, including a buoyant hull upon which the user is adapted to lie in prone position, hand-operated propulsion means carried by and disposed beneath the hull, a rearwardly-projecting frame carried by the hull, a foot-operated rudder on said frame, and a forwardly and upwardly inclined planing surface on said frame for elevating the rear end of the device upon forward motion thereof.



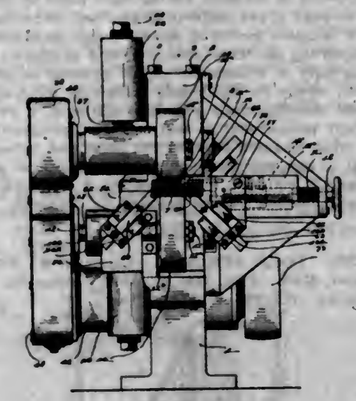
1,692,754. SPARK PLUG. PAUL MILLER, Pittstown, N. Y., assignor of one-third to Frederick C. Claessens, Troy, N. Y. Filed Mar. 23, 1927. Serial No. 177,809. 5 Claims. (Cl. 123—169.)



3. In a spark plug, the combination of an insulating core, a core supporting shell carrying a ground electrode at its inner end, and a central electrode carried by the core having a divided inner end forming independent firing tines extending in divergent relation and oppositely curved longitudinally and each being formed with a corrugated inner edge.

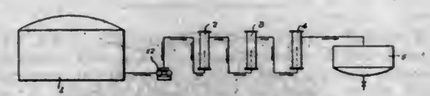
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1,692,755. BEVELING MACHINE FOR STRIP MATERIAL. EDWIN S. MIX and JOHN RALPH WHITEHOUSE, Rochester, N. Y., assignors to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Dec. 12, 1925. Serial No. 74,984. 6 Claims. (Cl. 164—39.)



1. A beveling machine comprising a guide for a strip of material, means for feeding a strip along the guide, a cutter having a cutting edge and a portion which engages the material in immediate proximity to the cutting edge and means for yieldingly supporting said cutter for movement in a line at an angle other than a right angle to the plane of travel of a strip under the action of the cutter portion engaging the material in proximity to the cutting edge so that a uniform bevel is provided notwithstanding any variation in the thickness of the strip.

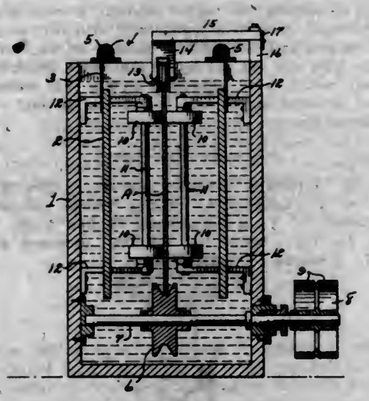
1,692,756. DESULPHURIZING HYDROCARBON OILS. ROBERT C. MORAN, Woodbury, N. J., assignor to Vacuum Oil Company, New York, N. Y., a Corporation of New York. Filed Jan. 18, 1927. Serial No. 161,784. 8 Claims. (Cl. 196—24.)



1. The process of desulphurizing hydrocarbon oils which consists in subjecting the oil to be treated to the action of metallic mercury and simultaneously subjecting the metallic mercury to a water solution of an alkali sulphide.

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1,692,757. ELECTROLYTIC APPARATUS. FOSTER C. NIXON, Apollo, Pa. Filed Feb. 8, 1927. Serial No. 169,325. 1 Claim. (Cl. 204—11.)



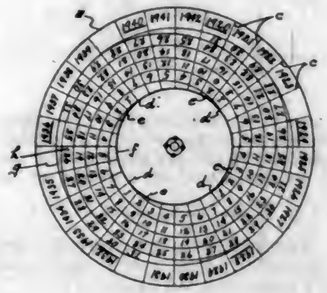
An electrolytic apparatus for treating plates comprising a tank, a pair of rods extending longitudinally across the top of the tank and insulated therefrom, anode plates, hooks at the upper edges thereof for engaging the rods so that the plates will be suspended in the tank, a plurality of shafts journaled in the lower part of the tank, a grooved roller on each shaft for engaging the lower edges of the plates to be treated, means for rotating the shafts, vertically arranged shafts in the tank arranged in pairs, a pair of rollers on each shaft for engaging the faces of the plates to be treated, the rollers on one pair of shafts being staggered with relation to the rollers on another pair of shafts, a grooved roller for engaging the upper edges of the plates to be treated, means for supporting the same, means for connecting said roller and the rods to a source of supply and an arm hinged to a part of the tank and carrying the supporting means for the last mentioned roller.

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1,692,758. MULTIPLE-YEAR CALENDAR. HENRY NOGRADY, Detroit, Mich., assignor of one-half to Alexander Weiss, Fordson, Mich. Filed July 25, 1927. Serial No. 208,232. 10 Claims. (Cl. 40—115.)

1. A multiple year calendar comprising: a disk having the ordinals of a number of years arranged in numerical order in a ring but with blank spaces preceding leap years, radial lines dividing said disk into sectors corresponding to said year ordinals, a series of ordinals for days of a month circularly spaced according to said sectors and arranged spirally upon said disk in such manner that any

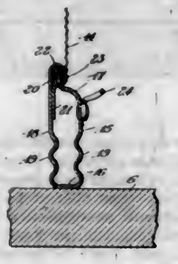
seven adjacent sectors will properly represent a calendar month divided into weeks, and a second disk arranged coaxially with said first disk and rotatable thereupon, said second disk having a sector cut out exposing a calendar month on the first disk, and also having a portion cut out exposing a plurality of the year ordinals in said ring, and



indexes identifying the twelve calendar months arranged each thereupon so as to be registerable with any one of said year ordinals and individually located in such relative position with said cut out sector that when the index for a certain month is set opposite a certain year ordinal the exposed calendar month will be correct for said certain month and year.

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1,692,759. WINDOW SCREEN. ALVIN F. NYE, Rochester, N. Y., assignor to Fil-Bac Screen Corporation, Rochester, N. Y., a Corporation of New York. Filed May 14, 1921, Serial No. 469,503. Renewed Apr. 1, 1927. 3 Claims. (Cl. 156—39.)

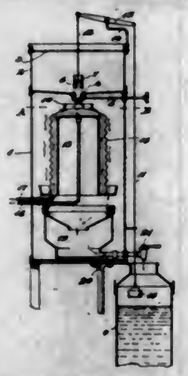


1. A binding rail for a window screen comprising an integrally formed substantially channel shaped bottom rail having its intermediate portion at the bottom for contact with the window sill and upwardly extending flanges at the sides thereof, an upper portion on one of said flanges bent downwardly on itself to form an upwardly projecting ridge and a downturned edge for attachment to the other flange, and an upper portion on the other of said flanges bent over and closely embracing said ridge with a downwardly extending edge adapted to hold a screen material between said ridge and said embracing portion.

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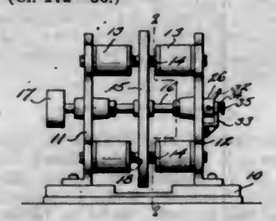
1,692,760. MILK COOLING AND FILTERING APPARATUS. ANGEL FRANCISCO ORTIZ, Buenos Aires, Argentina. Filed Jan. 7, 1927. Serial No. 159,513. 1 Claim. (Cl. 31—4.)

In a milk receiving apparatus of the character described, the combination of an upright casing, a receiving receptacle supported on said casing, a valve in the bottom of the receptacle to control the flow of milk therefrom, a strainer in the head of the receptacle, a cooling unit disposed within the casing and beneath the receptacle, a filter receptacle beneath the cooling unit to receive the milk and direct its flow to an awaiting receptacle, and a float controlled system of levers and rods at the side of the casing connected at one end to the valve in the receiving receptacle and a float suspended at the other.



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1,692,761. MAGNETIC MOTOR. SIDNEY OSSER, Wichita, Kans. Filed June 21, 1926. Serial No. 117,554. 4 Claims. (Cl. 172—36.)



1. In a motor, a field comprising a series of magnets, a second series of magnets having their poles in alinement with the poles of the magnets first named, mounting means for the magnets including spaced frame members and a base mounting the frame members, said members and base forming part of a magnetic circuit common to all alined magnets, means for electrically energizing the magnets of the field simultaneously and intermittently, a rotor mechanically independent of said means of energization, the rotor being mounted between the poles and including an element of non-magnetic material and individual members of magnetic material for completing a magnetic circuit between oppositely located poles of the magnets.

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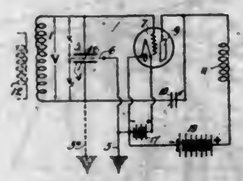
1,692,762. LOUD SPEAKER. CHARLES W. PETERSON, Detroit, Mich. Filed Dec. 30, 1925. Serial No. 78,287. 5 Claims. (Cl. 181—31.)



1. In a loud speaker, a cone diaphragm supported in free access to air, a supported ring for mounting the diaphragm, and a ring detachable from the supported ring, and having a conical spider of arms tapering to a center, so as to surround but not touch the convex face of the cone.



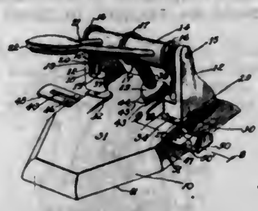
1,692,763. RADIOFREQUENCY AMPLIFYING CIRCUITS. WLADIMIR J. POLYDOROFF, Chicago, Ill., assignor to Johnson-Williamson Laboratories, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1927. Serial No. 166,107. 12 Claims. (Cl. 179—171.)



11. A radio apparatus including an oscillatory circuit, a three-electrode tube having the usual filament, grid and plate, one plate of the condenser in said oscillatory circuit being connected with the grid electrode and the other plate thereof being connected with the plate electrode of said tube through an adjustable condenser, and an element electrostatically associated with and insulated from said condenser and connected with the filament of said tube.

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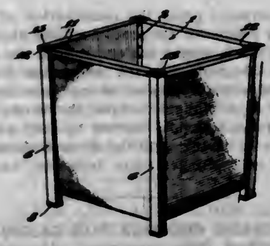
1,692,764. PUNCH. ELMER H. SALT, Norwood, Ohio, assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Filed Dec. 13, 1926. Serial No. 154,424. 9 Claims. (Cl. 164—91.)



3. In a perforator, a base, an eccentric shaft journaled thereon and having an arcuate operating stroke and a like return stroke, and a resilient return device compressible by said eccentric shaft on the operating stroke of the latter, said device being mounted angularly on said base so as to exert a tangential pressure on said eccentric shaft when the latter is at the bottom of its operating stroke.

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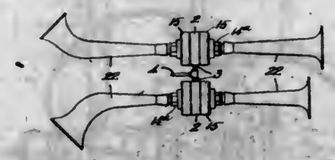
1,692,765. SHEET-METAL WASTE-PAPER BASKET. ELMER H. SALT, Norwood, Ohio, assignor to The Globe-Wernicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 20, 1927. Serial No. 207,244. 1 Claim. (Cl. 220—4.)



A sheet metal waste paper basket, comprising a body of sheet metal, side walls, the walls at their upper ends each bent into a hollow rim open at opposite ends, a corner brace, one for each corner engaged into the end of the rims of adjoining walls, tubular molding engaged longitudinally over each of the corners of said body and providing legs therefor, each corner molding at its upper end socketed into a respective corner brace and at the base of the body engaged over an extension thereof, and a rod for each corner extending longitudinally through the molding and engaged with said corner brace and base extension.

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1,692,766. FLUID-PRESSURE HORN. HARLEY E. ANDERSON, Kansas City, Mo., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed June 22, 1928. Serial No. 287,626. 14 Claims. (Cl. 116—142.)



1. A body for fluid-pressure actuated sound producing devices comprising a member formed with a securing base adapted for attachment to a support, a nipple for attachment to a source of compressed fluid supply, a plurality of diaphragm seats, and a plurality of air supply passageways of equal length.

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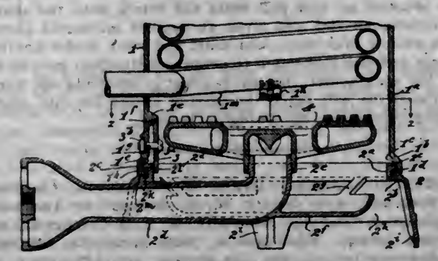
1,692,767. STRANDED SECTOR-SHAPED CONDUCTOR. NORMAN C. DAVIS, Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y., a Corporation of New Jersey. Original application filed Apr. 20, 1927, Serial No. 185,096. Divided and this application filed Mar. 31, 1928. Serial No. 266,357. 2 Claims. (Cl. 173—13.)



1. The method herein described of forming a stranded sector-shaped electrical conductor which consists in forming a tubular blank of individually free, helically stranded wires, each wire extending in a true helix, the turn of all of the helices extending in the same direction, and while the component wires are individually free to move both longitudinally and transversely with respect to adjacent wires crushing and elongating such blank and the component wires thereof and bringing the blank to sector shape with elimination of the tubular space within, and bringing the component wires to polygonal section with extended surfaces of contact between adjacent wires.

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1,692,768. WATER HEATER. LORAN F. DORN, Cleveland, Ohio, assignor to The Cleveland Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 11, 1924. Serial No. 749,173. 14 Claims. (Cl. 122—250.)

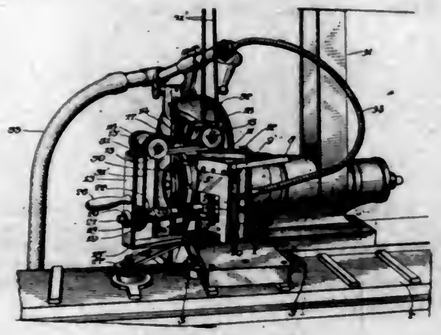


8. In a water heater assembly a heater casing comprising a fixed and a relatively movable section, a unitary

skirted base member, drip pan and gas supply conduit, cast in one piece and means to secure said unitary skirted base member to the fixed section of said heater casing.

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1,692,769. GRINDING MACHINE. EDMOND E. DROWNS, Cleveland, Ohio. Filed June 23, 1925. Serial No. 38,965. 16 Claims. (Cl. 51—97.)



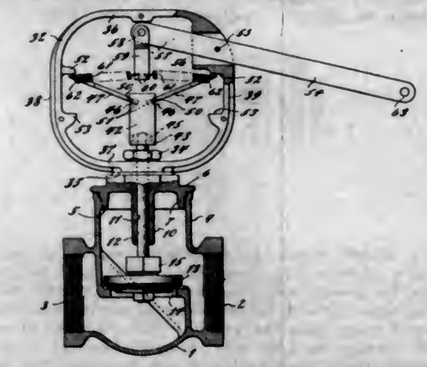
1. In a grinding machine having a shiftable table, a grinding wheel, and means for driving it, the combination of supporting means carried by the table, a pair of opposed ball seats carried by said supporting means, one shiftable toward and from the other, a bracket swingable about an axis common to the ball seats, a rotatable shaft carried thereby and having its axis transverse to the axis of the ball seats so as to be capable of occupying a position radial to the axis of the ball seats, means for driving it, and a work holder carried by said shaft for carrying the work in position to be positioned between the ball seats, the relation of the parts being such that the spherical portion of the work may be steadied by said ball seats but rotate with the shaft therebetween and also given an angular movement about the axis of said seats.

5. In a grinding machine having a shiftable table, a grinding wheel, and means for driving it, the combination of supporting means carried by the table, a pair of opposed ball seats carried by said supporting means, one located above the other and one shiftable toward and from the other, a bracket swingable about an axis common to the ball seats, a rotatable shaft carried thereby and having its axis transverse to the axis of the ball seats so as to be capable of occupying a position radial to the axis of the ball seats, means for driving it, and a work holder carried by said shaft for carrying the work in position to be positioned between the ball seats, the relation of the parts being such that the spherical portion of the work may be steadied by said ball seats but rotate with the shaft therebetween and also given an angular movement about the axis of said seats, said shaft and work holder having a pin and slot connection to permit longitudinal movement of the work holder, thereby to assist in centering the work between the ball seats, the driving means for said shaft being carried by the swinging bracket.

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1,692,770. VALVE. LEWIS W. EGGLESTON, Clarence Township, Erie County, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1923, Serial No. 622,062. Renewed July 2, 1926. 19 Claims. (Cl. 137—139.)

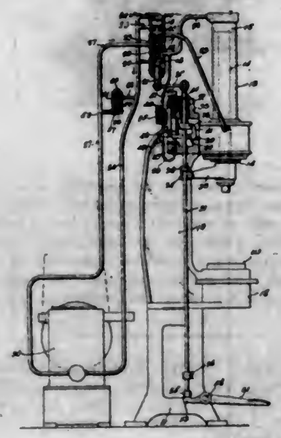
19. A valve of the character described, comprising a casing, a valve in the casing, an element adapted to move said valve, oppositely disposed members fulcrumed on said element, fixed stops in the paths of movement of



said members, and means to move said members into engagement with said stops, the force exerted by said means reacting through said members to move said element.

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1,692,771. HYDRAULIC PRESS. WALTER FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 8, 1924. Serial No. 748,634. 10 Claims. (Cl. 138—10.)

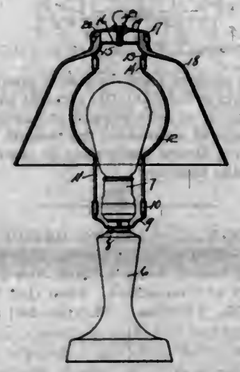


1. In a hydraulic press the combination of a plunger, fluid actuated means for reciprocating said plunger toward and from the work, means for controlling the direction of movement of said plunger, latch mechanism for releasably retaining said control means in one position to effect movement of said plunger toward the work, and means responsive to the pressure exerted by said plunger upon the work for releasing said latch mechanism to effect movement of said plunger away from the work.

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1,692,772. SHADE SUPPORT FOR LAMPS. JOHN J. FOLEY, Hartford, Conn., assignor to Henry Reuber, jr., and himself, doing business as The Art Lamp and Novelty Company, Hartford, Conn. Filed Sept. 30, 1927. Serial No. 223,140. 1 Claim. (Cl. 240—148.)

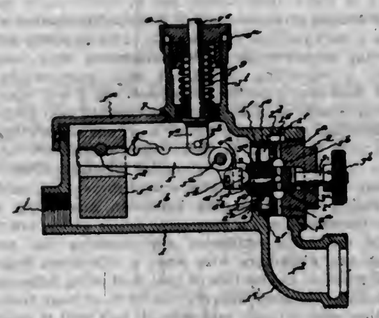
A shade support comprising a top and bottom member of like construction each having a transverse part and sides together forming a dish-shaped structure terminating in spaced parallel sockets, posts mounted at their ends in the sockets and spread apart to provide a bulb



clearance, a shade having a part thereof mounted on the sides of the top member, and retaining means for the shade engaged with the shade and top member.

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1,692,773. RELIEF VALVE. ARTHUR FRIEDMAN, Cleveland, Ohio, assignor to The Cleveland Heater Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 30, 1924. Serial No. 740,749. 13 Claims. (Cl. 137—53.)



1. In a device of the character described, a valve housing, a head provided with main port and branch ports, the latter terminating in an annular recess on the face side of said head, and a removable and replaceable thermostatic member comprising a diaphragm having openings sealed with a fusible material normally closing said annular recess and branch ports.

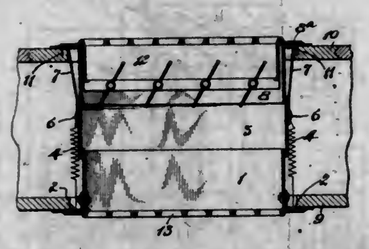
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1,692,774. PAPER AND PAPER STOCK AND METHOD OF PRODUCING THE SAME. LEWIS GRAFFLIN, Springfield, Ohio, assignor to Ball Brothers Company, Muncie, Ind., a Corporation of Indiana. Filed June 18, 1925. Serial No. 38,105. 11 Claims. (Cl. 92—9.)

1. A paper containing straw fibres and the residue of a weak sodium sulphate liquor in which the straw has been disintegrated.



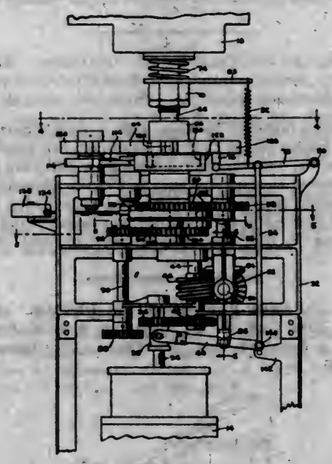
1,692,775. VENTILATOR THIMBLE. HOWARD S. HART, New Britain, Conn., assignor to The Hart & Cooley Manufacturing Company, New Britain, Conn., a Corporation of Connecticut. Filed May 24, 1928. Serial No. 280,140. 6 Claims. (Cl. 126—314.)



1. A ventilating thimble comprising a lower thimble section, a flange carried thereby for engaging the surface of a surrounding wall, an upper thimble section slidable on the lower thimble section, spring means serving to draw said sections toward each other, with means carried by said upper section for withdrawing the same from the first section and increasing the tension of the spring means and for holding said upper section in said position.

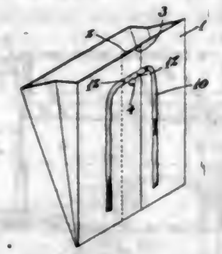
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1,692,776. VALVE-OPERATING MECHANISM. STANLEY G. HARWOOD and DONALD GRISWOLD, Minneapolis, Minn., assignors to Ward-Love Pump Corporation, Rockford, Ill., a Corporation of Illinois. Filed Mar. 21, 1925, Serial No. 17,446. Renewed July 6, 1926. 46 Claims. (Cl. 137—78.)



3. In mechanism of the class described, the combination of a fluid operated meter, a fluid supply pipe connected with said meter, a valve casing having fluid passage communication with said meter, a shiftable valve in said valve casing for controlling the passage of fluid, connections between said meter and valve for shifting said valve for differently controlling the passage of fluid when a predetermined amount of fluid has passed through said meter, a signal device, means for operating said signal device shortly before said shifting movement commences, and means whereby said connections may be rendered inoperative, after said signal device has been operated.

1,692,777. PAPER LAUNDRY BAG. THEODORE E. JEWELL, Newton, Mass., assignor to Waltham Bag and Paper Company, Waltham, Mass., a Corporation of Massachusetts. Filed June 21, 1927. Serial No. 200,484. 1 Claim. (Cl. 229—53.)



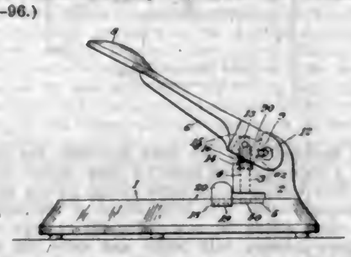
An improved laundry bag of the type described comprising a paper bag having overlapping portions, a recess through said portions to receive a hook to hang the bag thereon, and a combined reenforcing tape or cord and bag closing member secured to the overlapped portions adjacent to the recess to cooperate therewith in supporting the bag when hung on a hook or like member.

1,692,778. HINGED PIN FASTENER. GEORGE A. KING, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Jan. 3, 1928. Serial No. 244,156. 5 Claims. (Cl. 24—150.)



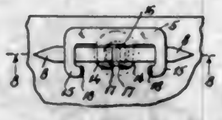
1. A snap-fastener member and a double-pointed pin hingedly connected, so that the snap-fastener member may be rotated on the pin, and a prong on the snap-fastener member below and apart from the hinging elements of the snap-fastener member and extending rearwardly between the limbs of the pin, the snap-fastener member and the pin cooperating to hold the snap-fastener member in closed position.

1,692,779. PAPER-PERFORATING DEVICE. FRED J. KLINE, New York, N. Y. Filed Jan. 4, 1926, Serial No. 79,129. Renewed May 31, 1928. 10 Claims. (Cl. 164—96.)



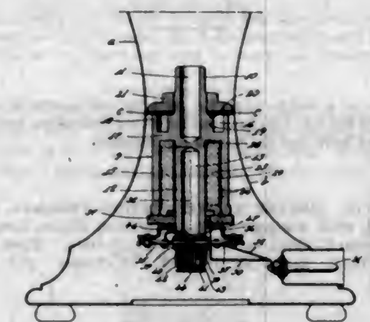
7. In a paper perforating device, the combination of a base having an upright portion provided with a punch bearing, a punch vertically slidable in said bearing, said upright portion having a fulcrum slot transverse to the axis of said punch, a lever connected to said punch, and a fulcrum pin slidable in said fulcrum slot and connecting said lever to said upright portion.

1,692,780. LOCK FOR PAPER FASTENERS. FRED J. KLINE, Bayville, N. Y. Filed Oct. 7, 1926. Serial No. 139,996. 5 Claims. (Cl. 24—153.)



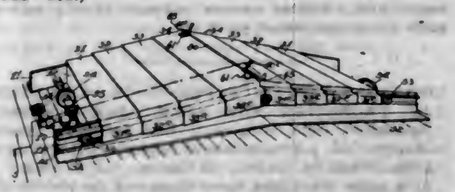
2. A lock for pronged paper fasteners comprising a plate having a plurality of substantially straight parallel tongues adapted respectively to pass beneath and above and thereby to grip the prongs of a fastener, the tongues which overlie the prongs having lateral projections at their ends to hold the lock in locking position.

1,692,781. ELECTRIC HEATING DEVICE. JOSEPH F. LAMB and JOSEPH FREDERICK SMART, New Britain, Conn., assignors to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed Oct. 20, 1925. Serial No. 63,755. 7 Claims. (Cl. 219—44.)



7. A heater of the character described including a part having a body portion, an upwardly extending projection, a depending extension in vertical alinement with said projection, a depending cylindrical skirt surrounding and spaced from said depending extension and a well constituting a vaporizing chamber extending through said projection and down into said body portion; a cylindrical heating unit within said skirt and in direct heat conductive relation thereto and comprising a cylindrical member of insulating material and a resistance wire wound thereabout, said unit surrounding said depending extension and being slight spaced therefrom, and a protective device at the lower end of said depending extension for breaking the current through said resistance wire when a dangerous degree of heat is reached, the bottom of said well being adjacent the top of said extension whereby the path of heat from said resistance wire through said skirt to said well is relatively shorter than to said protective device.

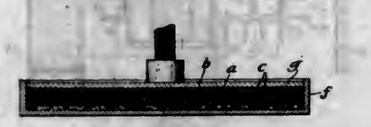
1,692,782. HATCH COVER. JAMES F. MACKIN, Chicago, Ill., assignor to Charlotte K. Mackin, Chicago, Ill. Filed Jan. 29, 1927. Serial No. 164,406. 7 Claims. (Cl. 114—202.)



1. Closing means for hatches and like floor openings, comprising in combination with a hatch coaming a plurality of cover sections mounted for sliding on the coaming successively overlapping one another longitudinally of the hatch, said lapipng edges having hook flanges adapted to interlock at closed position of the cover sections, and means interposed in the hook flanges for water-tight interlocking of said hook flanges of the consecutive cover sections.



1,692,783. BUILDING SLAB AND METHOD OF MAKING SAME. CHARLES E. MCMANUS, New York, N. Y., assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 25, 1925. Serial No. 71,300. 12 Claims. (Cl. 18—59.)

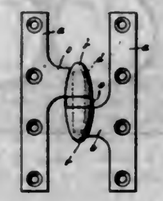


6. The herein described method of making building slabs consisting in bringing a semi-fluid batch of granular material and a plaster cement within a mould cavity and in intimate surface contact with a previously formed thin sheet composed of granular cork and a binder, and subjecting the same to a continuing slight pressure until the cement is set, whereby the granules of said granular material will be bonded together and be simultaneously bonded to said thin sheet.

1,692,784. FUEL AND FUEL INGREDIENTS. JOHN W. OBELUP, East Orange, and O. IVAN LEE, Jersey City, N. J., assignors, by mesne assignments, to Boyce-Ite Products, Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 23, 1925. Serial No. 4,255. 6 Claims. (Cl. 44—9.)

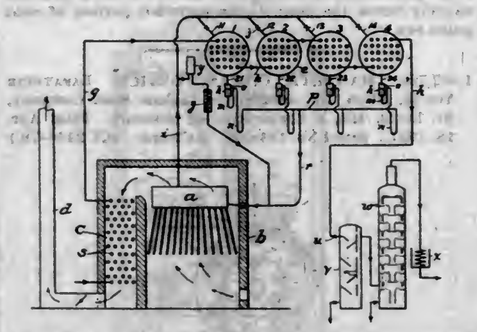
1. A hydrocarbon fuel suitable for automobile use containing ethyl esters of the higher fatty acids in the approximate proportion of 1/10 of one per cent as a carbon removing agent.

1,692,785. METHOD OF FORMING A HINGE LEAF. STUART W. PARSONS, New Britain, Conn., assignor to The Stanley Works, New Britain, Conn., a Corporation of Connecticut. Filed July 24, 1924. Serial No. 727,943. 8 Claims. (Cl. 29—11.)



4. The herein described method of forming a hinge leaf of the character described, which consists in stamping from a sheet of metal a blank having an attaching portion, a shank extending from one edge of said attaching portion, and a knuckle forming portion extending above the upper edge of said shank and having its outer edge inclined to the length of the attaching portion, said knuckle forming portion having its lower edge on an arc and having at its upper outer corner a projection, rolling the metal of the knuckle forming portion in an arc back upon itself into conical form, and then swaging the partially formed conical knuckle to dome shape.

1,692,786. PROCESS OF CRACKING MINERAL OIL. ARTHUR E. PEW, Jr., Bryn Mawr, and HENRY THOMAS, Ridley Park, Pa., assignors to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Jan. 25, 1926. Serial No. 83,437. 7 Claims. (Cl. 196—58.)

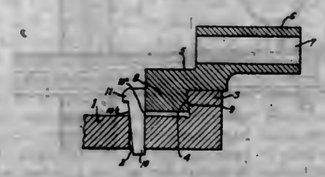


6. The process of cracking mineral oil which comprises heating a body of liquid mercury under an absolute pressure required to produce mercury vapor at a temperature above that at which substantial cracking of the oil will occur, establishing a continuously flowing stream of oil at a temperature below that of the mercury vapor and flowing said stream and the mercury vapor into heat exchange relation to effect condensation of mercury vapor and such transfer of its latent heat to the oil as will decompose higher boiling constituents thereof into lower boiling products, maintaining at the locus of heat exchange a predetermined absolute mercury vapor pressure less than that at the locus of mercury vapor generation by restricting the rate of flow of the mercury vapor to the locus of heat exchange, returning the condensed mercury to the body of liquid mercury and continuously removing the oil from the locus of heat exchange.

1,692,787. METHOD OF PURIFYING GASES CONTAINING PHOSPHORUS. GUSTAV PISTOR, Bitterfeld, and ERNEST BORSBACH, Bitterfeld-Sandersdorf, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Dec. 8, 1925, Serial No. 74,158, and in Germany Feb. 6, 1925. 5 Claims. (Cl. 23—223.)

1. The method of separating the dust from the raw gases escaping from a phosphorus furnace, which comprises passing the said gases through a filter chamber kept at a temperature above the dew-point of phosphorus.

1,692,788. REST BAR AND GUIDE BOX FOR METAL-ROLLING MILLS. LAFAYETTE YOUNG, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 9, 1927. Serial No. 182,288. 3 Claims. (Cl. 80—51.)

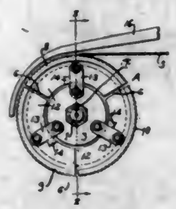


3. A metal rolling mill comprising a rest bar having a plurality of spaced apertures formed through a portion thereof and an upwardly extended portion provided with an inclined face, a guide box provided with a downwardly extended portion having an inclined face adapted to cooperate with the inclined face of said rest bar to prevent upward movement of said guide box relative to said rest

bar, and wedge-shaped members driven into said apertures in said rest bar in a manner to abut against said guide box and prevent disengagement of said inclined faces, said wedge-shaped members having overhanging head portions adapted to facilitate easy removal of said members from said apertures, said plurality of apertures being disposed entirely below the downwardly extended portion of said guide box.

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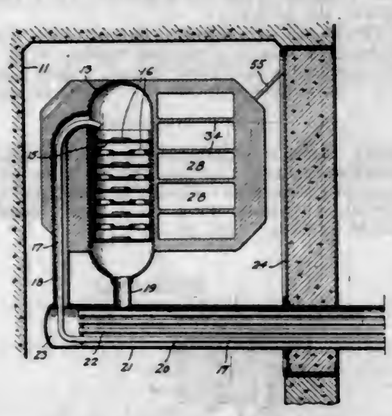
1,692,789. MAGNETIC COILING DEVICE. LAFAYETTE YOUNG, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 18, 1927. Serial No. 184,605. 2 Claims. (Cl. 242—78.)



1. A machine for coiling metal, comprising a drive shaft, a reel mounted on said drive shaft, said reel comprising a cylindrical member having annular flanges at its opposite ends, disks adjacent to said annular flanges, means whereby said cylindrical member and said disks are caused to rotate with said drive shaft, a plurality of segmental members, means whereby said segmental members are pivotally attached to said disks, and a plurality of electro-magnets supported by said cylindrical member, said electro-magnets being of a shape corresponding to the shape of said segmental members and being adapted to attract an end of said metal so that it will be attached to said reel.

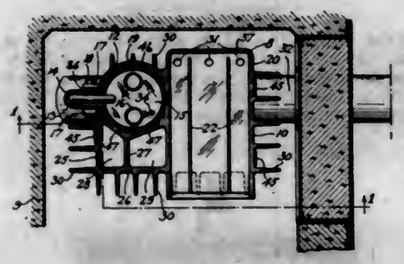
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1,692,790. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 21, 1926, Serial No. 136,753, and in Germany Aug. 3, 1926. 33 Claims. (Cl. 62—95.)



6. An evaporator comprising a steel shell, means to supply refrigerant to and withdraw refrigerant from said shell, a heat transmitting member comprising walls forming an enclosure adapted to receive ice-molds and a curved portion integral with and extending outwardly from said enclosure and secured around said shell with heat transmitting contact surfaces tightly bound together.

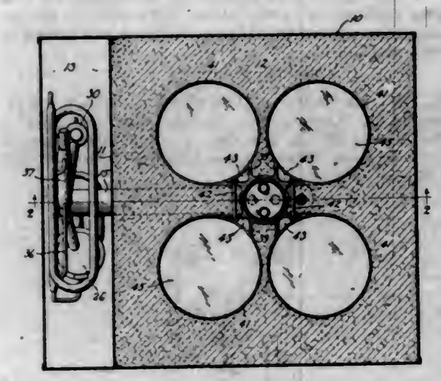
1,692,791. REFRIGERATION. ALVAR LENNING, Newburgh, N. Y., assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 9, 1927. Serial No. 218,418. 7 Claims. (Cl. 62—95.)



1. A refrigerator comprising a cabinet, an evaporater within said cabinet, said evaporator comprising a shell, a heat transmitting casting comprising a boxshaped portion adapted to hold ice trays, a plurality of arms extending from said box-shaped portion and encircling said shell, and tightening means for drawing said arms toward each other.

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1,692,792. CABINET FOR ICE CREAM AND THE LIKE. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 5, 1928, Serial No. 244,599, and in Germany Jan. 22, 1927. 7 Claims. (Cl. 62—95.)



3. Refrigerating apparatus including an evaporator comprising a vertically extending shell, a casting comprising a hub portion, said hub portion having metallic contact with said shell, a web extending from said hub portion and an arc-shaped member extending from said web.

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1,692,793. EARTH-BORING DRILL. CLARENCE E. REED, Wichita, Kans. Filed Feb. 27, 1928. Serial No. 257,259. 2 Claims. (Cl. 255—71.)

1. A roller cutter unit for earth boring drills comprising a spindle and shank, said spindle having an annular groove in its surface, a ring of one piece mounted to turn



on said spindle, segmental pieces seated in the annular groove, and furnishing a retaining bearing for and engaging the front face of the ring, and a roller cutter



mounted on the spindle and to which the ring is attached, said roller cutter having a bore adapting it to slip axially along the spindle over the segmental pieces to the ring for attachment thereto substantially as described.

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1,692,794. RECEPTACLE. HENRY C. ASH, Duluth, Minn. Filed Aug. 9, 1926. Serial No. 128,052. 1 Claim. (Cl. 220—62.)

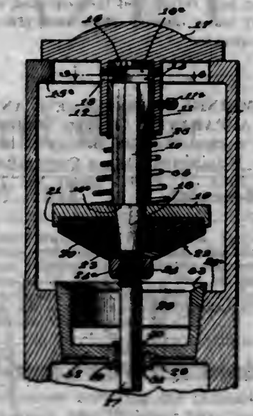


A receptacle of the class described characterized by being formed of a single sheet of metal cut inwardly in equal distances on the four corners thereof at an angle of forty-five degrees and the corners made to overlap each other with the cut edges thereof brought into the same plane with the bottom, forming a receptacle having a rectangular bottom and an elliptical opening for the purpose described.

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1,692,795. PUMP VALVE. LESLIE B. CLIFFORD, Texarkana, Ark. Filed Jan. 7, 1927. Serial No. 159,650. 1 Claim. (Cl. 251—144.)

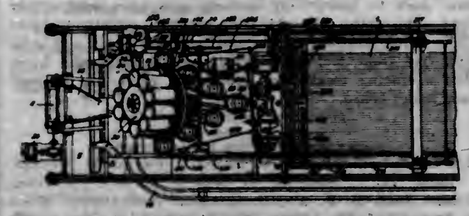
A valve having a body construction comprising a valve formed of composition material, a metal cover in contact with the valve, a stem having a threaded portion for engagement with the valve body, the stem projecting upon opposite sides of the valve, a tubular guide at one side of the valve, a bushing received by the guide, said bushing and guide having aligned passages, one end of the stem being slidably mounted in said bushing, a cup-shaped member at the opposite side of the valve and provided with a valve seat, a guide carried by the cup-shaped member for the other end of the stem, said cup-shaped member being



provided with openings for permitting the free passage of the water, the seat and valve being sheared off at an angle of 25° so that foreign matter will be prevented from collecting on the valve seat.

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1,692,796. AUTOMATIC PIN-SETTING MACHINE. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 2, 1925. Serial No. 20,093. 69 Claims. (Cl. 273—43.)



1. A bowling alley pin setter, comprising an elevator, a plurality of buckets on the elevator, and means for maintaining said buckets in a vertical position on the downward travel of the elevator and in a horizontal position on the upward travel of the elevator.

8. In a pin setter, an elevator comprising a stationary back and having a plurality of buckets, each bucket adapted to carry a pin, and means on said back operating when more than one pin is carried by a bucket to discharge the extra pin.

29. In a pin setter, a distributor comprising a plurality of superposed plates each plate provided with holes through which pins may pass, said holes being normally out of alignment to prevent passage of pins therethrough, means operated by the pin before it enters the distributor for rotating said distributor to bring the holes in one of said plates successively into position to receive the pin, and means for causing relative movement between said plates to bring said holes into alignment at a predetermined point.

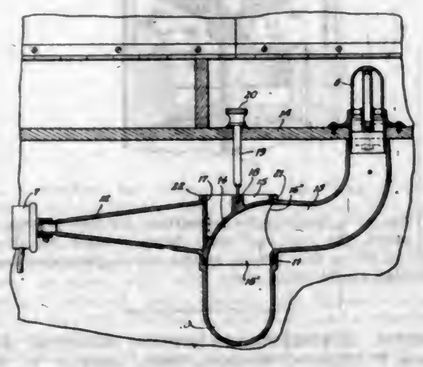
40. In a pin setting mechanism, a setter having a plurality of containers for pins, and a frame disposed above

said setter and controlling the passage of pins into said containers, the operation of said frame being controlled by the presence or absence of pins in said setter.

68. In a pin setting mechanism, a setter, means controlling the passage of pins to said setter, means for raising and lowering said setter and including an electric circuit, said circuit being opened when said pin controlling means is being operated.

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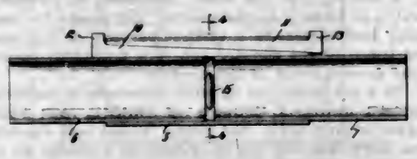
1,692,797. COMBINED PHONOGRAPH AND RADIO RECEIVING APPARATUS. JOSEPH W. BISHOP, Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,115. 6 Claims. (Cl. 179—100.1.)



1. In a device of the character described, a motor-board, a phonograph, a radio loud speaker, an amplifying horn, a neck having arms connected to said phonograph, said loud speaker and said horn respectively, a valve in said neck to operatively connect said horn with either said phonograph or said loud speaker, selectively, said valve being located between and independent of said arms and free from said phonograph, loud speaker and horn, and operating means for said valve extending through said motor-board.

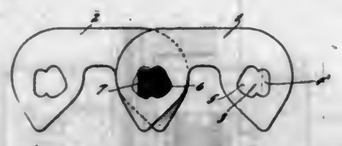
---

1,692,798. CONDUIT COUPLING. FRANK M. POTTER, Rome, N. Y., assignor to General Cable Corporation, New York, N. Y., a Corporation of New Jersey. Filed Aug. 19, 1925. Serial No. 51,155. 2 Claims. (Cl. 247—27.)



1. A coupler for elliptical conduits comprising in combination a sleeve substantially elliptical in cross-section, its smaller diameter being substantially that of the conduit sections to be connected and its larger diameter being greater than the larger diameter of the conduit ends, opposed wedges superposed within said sleeve and each extending from end to end thereof, the inner wedge substantially fitting the edge of the conduit section, the outer wedge substantially fitting the sleeve, whereby movement of said wedges upon each other in opposite directions will cause said sleeve to firmly engage substantially the entire enclosed surface of the conduit sections.

1,692,799. POWER-TRANSMISSION CHAIN. HAROLD E. STURTEVANT, Hartford, Conn., assignor to The Whitney Mfg. Co., Hartford, Conn., a Corporation of Connecticut. Filed June 20, 1925. Serial No. 38,397. 2 Claims. (Cl. 74—32.)



2. A chain of the silent link type having joints between the pitches, two-part pintles passing through the links at the joints, said pintle parts being symmetrical and one fixed with each set of links, each having flat parallel sides and rounded edges, the said parts being reversible and interchangeable.

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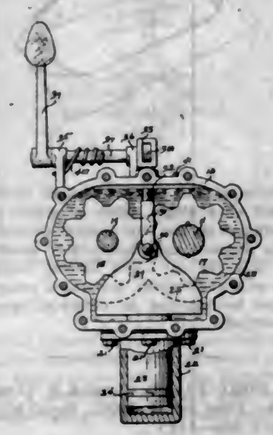
1,692,800. ACOUSTIC DIAPHRAGM. HERMAN G. PAPE, Newark, N. J. Filed Jan. 14, 1925. Serial No. 2,358. 13 Claims. (Cl. 179—181.)



1. In a sound instrument, a diaphragm having plane surfaces free of loading material at the central and outer parts thereof, and magnetic comminuted loading material arranged in a comparatively narrow annular ring concentrically on one of said surfaces about the center of said diaphragm and in a pile for shunting the magnetic lines of force through said pile while substantially maintaining the resilience and flexibility of said diaphragm, said pile being superposed upon and secured to the said surface of said diaphragm and serving to increase the effective thickness thereof.

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1,692,801. FLUID BRAKE FOR ROTATING SHAFTS. OLUF FRED JENSEN, Council Bluffs, Iowa. Filed Oct. 24, 1927. Serial No. 228,299. 9 Claims. (Cl. 188—92.)



1. In combination with a rotating shaft, a brake comprising a housing, a spur gear permanently secured to said shaft and inside said housing, a second spur gear rotatably mounted in said housing and meshing with said first mentioned spur gear, a fluid in said gear housing, and a means for partially or totally housing the lower portions of said spur gears.

Patents Nos. 1,602,802 to 1,603,587.

THE

# OFFICIAL GAZETTE

OF THE

# United States Patent Office.

Vol. 376—No. 4. TUESDAY, NOVEMBER 27, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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| | | | |
|---|---|---|---|
| Trade-Marks | 387 | No. 249,526 to No. 249,912 | inclusive. |
| T. M. Renewals | 43 | | |
| Labels | 35 | No. 34,995 to No. 35,029 | inclusive. |
| Prints | 17 | No. 11,341 to No. 11,357 | inclusive. |
| Reissues | 4 | No. 17,795 to No. 17,798 | inclusive. |
| Designs | 75 | No. 76,874 to No. 77,048 | inclusive. |
| Patents | 703 | No. 1,602,802 to No. 1,603,587 | inclusive. |
| Total | 1,264 | | |

## Adjudicated Patents.

(D. C. Ill.) Cowles patent, No. 1,103,567, for interchangeable automobile wheel, claims 9, 11, and 18 *Held* infringed. *Packard Motor Car Co. v. Overland Motor Co.*, 28 F. (2d) 206.

(D. C. N. Y.) Rousso design patent, No. 42,206, for design for towel cabinet, *Held* valid and infringed. *Rousso v. Rico Towel Cabinet Co.*, 28 F. (2d) 200.

## International Convention—Adhesion.

### Portugal.

This Office has been notified by the Secretary of State of the receipt of a notice from the Swiss Legation that the Government of Portugal has adhered to the Convention of the Union for the Protection of Industrial Property, as revised at The Hague November 6, 1925, the adhesion to take effect November 17, 1928.

THOMAS E. ROBERTSON,
*Commissioner of Patents.*

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,521,441, J. W. Fraser, Rectifier, decided October 30, 1928, claims 1, 2, and 3.

Pat. 1,581,922, R. T. Ferngren, Glass feeder, decided October 15, 1928, claims 1, 4, 11, and 12.

Pat. 1,615,225, Rosenberger and Zimmerman, Thermostat for heating systems, decided September 6, 1928, and September 24, 1928, claims 1, 4, 11, and 15.

Pat. 1,617,686, J. M. Soares, Articulated car, decided October 16, 1928, claim 8.

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Final decision in interference has been rendered against the following trade-mark:

T. M. 222,631, Liquid motor fuel, The Denver Powerine Company (The Powerine Company substituted), Denver, Colo. Registered January 4, 1927. Decided October 19, 1928.

## Amendments and Status Letters.

DIVISION OR ROOM NUMBER SHOULD BE INDICATED.

Attorneys and applicants should, in making amendments and in writing letters asking for the status of applications, indicate the division to which the application was assigned or the room number of the division.

If papers are thus marked, it will save a large amount of time of this Office in looking up the records in order to ascertain to what divisions they should be sent.

## Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Nov. 5, 1928.*

*Frederick Edward Veasey Baines, his assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Frederick Edward Veasey Baines, of 2 Orchard Road, Blackheath, county of Kent, England, No. 70,782, dated October 6, 1908, and the notice of such proceeding sent by registered mail to the said Frederick Edward Veasey Baines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Frederick Edward Veasey Baines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications Under Examination at Close of Business November 16, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 110,109; Trade-Mark Division, 1,747. Oldest new case, Jan. 12, 1928; oldest amended, Jan. 26, 1928. The dates given are 1928.)

| Room No. | Divisions, Examiners, and Subjects of Inventions. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Mar. 8 | Mar. 17 | 1,538 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 17 | Mar. 17 | 1,629 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Mar. 14 | Apr. 2 | 1,324 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Feb. 7 | Feb. 11 | 1,505 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 13 | Feb. 13 | 1,496 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Feb. 2 | Feb. 14 | 2,513 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Feb. 2 | Feb. 9 | 1,946 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 16 | Apr. 23 | 1,694 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Apr. 19 | Apr. 3 | 1,772 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Mar. 10 | Mar. 20 | 1,737 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | May 12 | May 21 | 866 |
| 380 | 12. PIERCE, P. P., Machine Elements | Mar. 8 | Mar. 3 | 1,933 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Mar. 10 | Mar. 2 | 1,891 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Feb. 29 | Feb. 16 | 1,142 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Feb. 3 | Feb. 4 | 2,702 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 3 | Apr. 4 | 1,222 |
| 307 | 17. BAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Feb. 9 | Mar. 3 | 1,421 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Jan. 20 | Jan. 29 | 1,715 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Mar. 9 | Mar. 20 | 1,621 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fastners; Locks and Latches; Safes; Undertaking. | May 17 | May 17 | 1,414 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Feb. 28 | Mar. 16 | 1,013 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Feb. 1 | Feb. 10 | 1,668 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Jan. 21 | Jan. 24 | 1,122 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Mar. 3 | Mar. 5 | 1,535 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | May 3 | 1,674 |
| 228* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Mar. 13 | Mar. 12 | 1,178 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 11 | Apr. 16 | 1,470 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 10 | Mar. 10 | 1,612 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Mar. 12 | Mar. 20 | 1,042 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Feb. 20 | June 8 | 1,490 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Mar. 1 | Mar. 8 | 2,073 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Feb. 4 | Feb. 6 | 2,052 |
| 152 | 33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | June 4 | June 11 | 1,041 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Feb. 1 | Feb. 10 | 1,341 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 22 | May 24 | 1,620 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring. | Mar. 23 | Mar. 23 | 2,008 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Jan. 12 | Feb. 4 | 2,412 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Apr. 3 | Apr. 3 | 1,985 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Feb. 6 | Feb. 8 | 1,920 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Feb. 23 | Apr. 2 | 2,726 |
| 125 | 41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 1 | Mar. 8 | 1,395 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Jan. 26 | Mar. 12 | 1,536 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 21 | Mar. 20 | 2,190 |
| 283 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Feb. 27 | Mar. 2 | 2,611 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Feb. 9 | Mar. 2 | 2,467 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 15 | Feb. 20 | 1,796 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 8 | Mar. 14 | 1,987 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Mar. 3 | Mar. 1 | 1,536 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Mar. 10 | Mar. 20 | 1,454 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Mar. 12 | Mar. 14 | 2,541 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 21 | Feb. 17 | 2,241 |
| 144 | 52. MORGAN, E. T., Supports; Chocks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Mar. 22 | Mar. 20 | 2,267 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | May 7 | Apr. 28 | 1,785 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Feb. 18 | Mar. 1 | 2,376 |
| 102 | 55. BOWEN, S. T. { Bread, Pastry, and Confection Making; Cutlery | Mar. 4 | Mar. 4 | 773 |
| | { Designs | Oct. 17 | Nov. 2 | 476 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substances Preparation | Jan. 21 | Jan. 29 | 2,444 |
| 257* | 57. NICOLSON, C. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Mar. 3 | Feb. 9 | 1,127 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Jan. 19 | Jan. 21 | 1,378 |
| 315 | 59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 21 | Jan. 21 | 2,766 |
| 213* | 60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Feb. 4 | Feb. 10 | 1,660 |
| 269 | 61. PARKS, C. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 3 | Feb. 13 | 2,296 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Feb. 3 | Mar. 17 | 2,731 |
| 163 | Trade-Marks, Labels, and Prints: F. A. RICHMOND { Trade-Marks | Oct. 20 | Nov. 5 | 1,611 |
| | { Labels and Prints | Oct. 27 | Nov. 8 | 136 |

* Refers to room numbers in the annex.







# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decisions.

### Ex parte Hall.

*Decided November 8, 1928.*

Applications—Examination—Making Special.

The examination of an application will not be made "special" merely because the application was filed more than 12 months after the filing of the corresponding application in a foreign country.

Petition to make case "special."

Robertson, *Commissioner:*

This is a petition to make this case "special" because not filed within 12 months of the filing of the foreign application.

The International Convention and Revised Statutes 4887 permit a foreign inventor to file an application within 12 months, one whole year, after filing in the home country and preserve his priority rights. If filed after the year, the patent would be invalid if issued after the grant in the home country (R. S. 4887). During the war an application not filed within the year was made "special" if it could be issued before the grant abroad. Several years after the war this rule was changed to require a showing as to the issuance of the foreign patent, etc. (*Ex parte Tesorn et al.*, 305 O. G. 633.) However whenever a case was made "special" it necessarily resulted in discrimination against the citizens of this country by taking the application of the foreigner out of its turn and placing it ahead of hundreds of applications of American citizens so as to give immediate action to the foreign case. This might have been continued if there had been only several such cases each year, but there were hundreds each year and hence the rule was changed on July 28, 1927 (effective Jan. 1, 1928), to revert to prewar conditions. Since then applications of foreign citizens have not been made "special" merely because filed late, and foreigners must file their applications within the year specified in the Convention or run the risk of rejection if the foreign patent issues first.

In view of the foregoing the petition is denied.

### Ex parte Jones.

*Decided July 30, 1927.*

1. Application—Combination Claims—Anticipation.

"A claim for a combination of cooperating elements forming a unitary device is not anticipated by a combination lacking some of those elements or by a combination in which some of the operations are performed by hand, even though some of those elements may be stated in the form of means qualified by a statement of function."

2. Same—Broad Claims.

Claims for a knitting machine for knitting stockings of a certain type *Held* not broad enough to cover all ways of producing such stockings, where it appears that they can be made by hand manipulations of machines of a known type or that mechanism having no pickers could be devised for producing them which would not infringe those claims.

[This application has resulted in Patent No. 1,641,589.]

Appeal from Examiners in Chief.

Hosiery Machine for Making Right and Left Toe Pockets.

*Messrs. Emery, Booth, Janney & Varney* for appellant.

Moore, *Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the decision of the Examiner finally rejecting claims 1 to 11, inclusive, 16, 17, 19, 23, 29, 30, and 35, of which the following will serve as an illustration:

1. A circular hosiery knitting machine having a relatively rotatable needle cylinder and cam ring, and means for automatically imparting such relative movement, narrowing and widening pickers having fixed stations with respect to the cam ring but having needle elevating and depressing movements at their fixed stations, and means for automatically controlling said pickers, so as to form a stocking or hose having fashioned heel gores, and a toe pocket fashioned at one edge only of said toe pocket.

The references relied on are: Folsom, No. 369,637, September 6, 1887; Barr, No. 1,160,819, November 6, 1915.

The invention relates to a circular hosiery knitting machine having narrowing and widening pickers with means for automatically controlling said pickers so as to form a stocking or hose having fashioned heel gores, and a toe pocket fashioned at one edge only of said toe pocket.

Such a stocking is old in the prior art, as shown in either of the patents to Barr or Folsom. Appellant, however, is not claiming a stocking, but a machine for making a stocking. The stocking of Barr can be made on known commercial machines by certain manipulations of the needles of the machine as described by Barr at page 1, lines 70 to 88. How the manipulation is accomplished is not stated in the patent, but it could be a hand manipulation by some knitter's tool which, however, would result in the stocking being slowly, awkwardly, and expensively produced.

[1] Appellant has conceived that by adding to the known commercial machines, means for automtically controlling the pickers in the manner claimed, stockings of the form admittedly old in the art may be rapidly and expeditiously produced, which amounts to a new machine or combination of elements for producing an old article. A claim for a combination of cooperating elements forming a unitary device is not anticipated by a combination lacking some of those elements or by a combination in which some of the operations are performed by hand, even though some of those elements may be stated in the form of means qualified by a statement of function.

Of course every element defined in the form means for performing a function does, and is intended to, cover every means for performing the function stated for the element.

[2] The objection of Examiners in Chief that certain of the appealed claims are broad enough to cover all ways of producing the stocking shown in Folsom or Barr or the known commercial hosiery

knitting machine does not appear warranted. These stockings may still be produced by hand manipulations on machines of the type described by Barr at page 1, lines 70–88, without infringing the appealed claims. Or if a mechanism be devised for producing these stockings, said mechanism having no pickers, that mechanism would not infringe the appealed claims.

Appellant's claims define a new combination of elements for producing an old article, but do not appear so broad as to cover all means for producing that article. The appealed claims are accordingly considered allowable.

The decision of the Examiners in Chief is reversed as to all the appealed claims.

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## U. S. Circuit Court of Appeals—Third Circuit.

CRAFT-STONE, INC., v. ZENITHERM CO., INC.

*Decided September 24, 1927; rehearing denied.*

[22 Fed. Rep. (2d) 401.]

1. PATENTABILITY—FIREPROOF INSULATING BUILDING MATERIAL.

Sutter patent, No. 1,183,694, for fireproof insulating building material and process of making same, claims 1 and 4 *Held* not anticipated, valid, and infringed.

2. SAME—COMPOSITION OF MATTER—COACTION OF ELEMENTS.

Bringing together for the first time of different elements into a unitary whole forming a new and useful product is patentable.

3. INFRINGEMENT—PROCESS—TRANSPOSITION OF STEPS OF—DOES NOT AVOID.

Transposition of some steps in patented process, which does not change the principle, mode of operation, or result, does not avoid infringement.

APPEAL from the District Court of the United States for the District of New Jersey; Joseph L. Bodine, Judge.

Suit in equity by the Zenitherm Company, Inc., against Craft-Stone, Inc. Decree for complainant and defendant appeals. Affirmed.

*Mr. Walter W. Burns*, (*Mr. Merritt Lane*, and *Mr. Robert Watson* of counsel) for the appellant.

*Mr. Fred J. Beckert* and *Messrs. Mitchell & Beckert* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

DAVIS, *Cir. J.*:

This is an appeal from a decree adjudging United States Letters Patent No. 1,183,694, issued to Balthasar Sutter, to be valid and infringed.

The defendant has brought the case here for review on 14 assignments of error, but they all relate to two main questions: validity and infringement. The defendant filed a counterclaim which the court dismissed, but his action in so doing is not before us, for it has not been made the subject of an assignment or discussion.

[1] The patent relates to new and useful improvements in fireproof insulating building material and the process of producing the same. We have, therefore, a patent for a process and a product. It has nine claims, only two of which, the first and the fourth, are in issue. The first claim is for the process and the fourth for the product.

The process consists in mixing granulated vegetable and mineral matter in its natural state, such as wood chips or shavings, with granulated mineral matter—powdered magnesite—until each particle of vegetable matter is coated with the mineral matter. Then these chips or shavings coated with magnesite are mixed with a binder solution of magnesium chloride. The magnesite or magnesium oxide and magnesium chloride form a cement which lightly coats the wood particles, leaving them in a loose, nonhomogeneous, and incompacted state. This loose mass or aggregation of coated wood particles is put into a mold so as to form a layer of uniform thickness, which is then compressed, under a pressure of about 2,500 to 3,000 pounds per square inch, into a homogeneous mass, the cement being permitted to set so as to form a solid slab, mainly made from the wood particles which have been crushed and brought into intimate contact with each other, with a minimum amount of cement holding them together.

This product may be sawed, nailed, or otherwise worked as wood. Yet it is light, fireproof, strong, nonhygroscopic, possesses high insulating and sound-deadening properties, will not warp, and is well adapted to use on floors and interior and exterior walls. There seems to have been no product just like it before.

The plaintiff company had two men in its employ, Mr. George C. Wilson, its sales manager, and Mr. Thomas Garvin, a salesman. After working for the plaintiff for some time and, one or both, becoming more or less acquainted with its process and product, and the names and location of its customers, they left its employ and early in 1925 incorporated the defendant, Craft-Stone Corporation. Mr. Wilson became its president and Mr. Garvin its vice president. They began to manufacture an insulating building material which the plaintiff says is substantially identical with its own in character and was made by practically the same process.

The primary question is validity. None of the many patents of the prior art upon which the defendant relies had taught the world the art of coating granulated, vegetable matter in its natural state with granulated mineral matter, and then of compressing this loose, nonhomogeneous mass into a solid, homogeneous, useful slab having characteristics of both wood and stone. There seems to be some controversy between the district court and appellant as to whether or not the appellant's "best reference is the Mattison patent, No. 893,961," or whether "the nearest approach to defendant's process is found in Bidtel, 827,286." However that may be, the proofs show that there never was a product on the market like Zenitherm before the invention of the patent and none since except that of the defendant. Judge Bodine, after carefully analyzing the Mattison patent, defendant's best reference, said:

> The Mattison floor differs in no essential from any other magnesite floor. Neither Mattison's product nor his process has the slightest resemblance to Dr. Sutter's invention.

In the Mattison floor, there was a layer of cork coated with Sorel cement; then a layer of wood splinters bound together with Sorel cement and troweled; the next and last layer was of wood flour, asbestos, and Sorel cement troweled to form the finishing floor surface. This invention neither in process nor product anticipates the invention of Sutter's patent.

The defendant said:

> The nearest approach to defendant's process is found in Bidtel, 827,286.

If the defendant's process is substantially identical with that of plaintiff's, which we will later discuss, we would expect Bidtel to anticipate it.

What Bidtel claims to have invented are "certain new and useful improvements in magnesia cement," which "consists in mixing a concentrated solution of chloride of magnesium, sawdust, or other suitable filler, preferably of a porous nature, which will absorb the solution." Such a filler remains moist and difficult to handle. To overcome this, he added infusorial earth or fossil flour, which forms a coating over the particles of the filler, absorbs the moisture and renders the mixture dry and easy to handle. After the cement has been shipped to the point where it is to be used, Bidtel there adds to the mixture finely-pulverized burnt magnesite and water which effects the chemical reaction necessary to cause the mass to set and become hard. The proportions of these ingredients are stated in his claims as follows:

> 1. The combination of substantially thirty-six parts by weight of sawdust, eighty-five parts of magnesium chloride solution (30.5° Baumé) and twenty-five parts of infusorial earth, forming a substantially dry ingredient of magnesium cement.
>
> 2. The herein described composition of matter, which consists substantially of thirty-six parts by weight of an absorbent filler, eighty-five parts of magnesium chloride solution (30.5° Baumé), twenty-five parts infusorial earth, seventy-five parts pulverized burnt magnesite, and forty-three and one-half parts water.

The plaintiff's product has three ingredients: granulated cork, wood chips, shavings, or other vegetable matter; magnesite or other granulated mineral matter; and a binder solution of magnesium chloride, acetyl cellulose, etc. The process by which the patentee made his product had three steps: (1) mixing the shavings with magnesite until they were coated; (2) mixing coated shavings with a binder solution of magnesium chloride, which produces a loose nonhomogeneous mass; and (3) compressing by regulated—"sufficient" but not "excess"—pressure this loose mass into a homogeneous mass.

The invention lies in the creation and compression of this loose, nonhomogeneous mixture of mineral-coated vegetable matter into a homogeneous mass of artistic appearance and useful qualities. Whatever may be said about the different constituent elements used by the plaintiff and Bidtel, the latter did not have the third and important element of the plaintiff's process. This the defendant admits, but says that the state of the art permits the use of pressure with any Sorel cement process. The patentee invented a new and useful product, and it is not permissible for an infringer to go to the prior art and defeat the patent by selecting the various elements of the patentee's process from different patents, bring them together, and say that this aggregation anticipates.



Knowledge after the event is always easy, and problems once solved present no difficulties. *Loom Co.* v. *Higgins*, 105 U. S. 580, 26 L. Ed. 1177; *Diamond Rubber Co., Etc.*, v. *Consolidated Rubber Tire Co.*, 220 U. S. 428, 31 S. Ct. 444, 55 L. Ed. 527.

Many other patents were cited to show that the Sutter patent was anticipated and is invalid. We have examined them, together with argument of counsel bearing on them, but do not think that they anticipate the patent in issue here. The Sorel patent, No. 100,945, is an illustration of the many patents cited. Counsel says:

> The ingredients of Zenitherm product are all mentioned by Sorel; the steps of the process are the same, and the order of the steps is the same.

If this is true, anticipation is unescapable. Sorel's own statement in describing his process disproves defendant's contention:

> I throw into a furnace the natural rock magnesite, and subject it to a red heat from one to fifty hours; I prefer for general use about twenty-four hours; I pulverize what remains. I use this product, or the magnesia of commerce, according to convenience or economy, which may depend, in part, upon the place where the cement is made and in part upon the result proposed. I thoroughly mix with the magnesia, however obtained, any mineral substance, as sand, gravel, the dust and fragments of marble and other stones, emery or other grits, or cotton, wood, or other fibrous material, according to the result desired. The proportion of such substances varies with the work to be done, from one-half to twenty or more to one. This mixture is then moistened with a solution of either of the following substances of the density of from 20° to 28° Baumé, instead of the chloride of magnesium or the bittern water, as described in my said patent, viz, chloride of barium, chloride of strontium, chloride of aluminum, chlorhydrate and bisulphate of ammonium, sulphate of magnesia, sulphate of aluminum, solutions of potash or of soda, or of the carbonates of these bases, as well as by the solutions of most of the double chlorides and other double salt containing salts with magnesia basis. These solutions can be employed singly or mixed together, or with the chloride of magnesium. They are employed more or less concentrated, according to the nature of the cement desired to be obtained. The mixture is wet sufficiently, in some cases, to form a mortar, and in some cases only to produce a dampness like that of molding sand when prepared for use. The plastic substance thus formed is then poured, pressed, or rammed into molds, or rolled or spread in slabs or sheets, or other form required, and soon sets, and forms hard, strong, and durable stone or other product, partaking of the color and qualities of the substances combined.

It will serve no good purpose to analyze all the other patents. We have carefully considered them, and do not think that they anticipate Sutter.

[2] The several elements in Sutter's combination conjointly, each element acting according to the law of its own nature, produced a new floor. He was the first to bring these elements together in a unitary whole, which is therefore patentable. *National Cash Register* v. *American Cash Register* (C. C. A.) 53 F. 367; *Macbeth-Evans Glass Co.* v. *L. E. Smith Glass Co.* (C. C. A.) 284 F. 128; *Blake* v. *Robertson*, 94 U. S. 729, 24 L. Ed. 245; *Lock Co.* v. *Sargent*, 117 U. S. 536, 6 S. Ct. 934, 29 L. Ed. 954.

Did the defendant infringe? The proofs show that defendant moistens wood chips or sawdust with magnesium chloride and then mixes them or it with powdered magnesium oxide until they are coated, and thereafter mixes these coated chips with magnesium chloride, which results in a loose mixture of coated chips which are then compressed, by hydraulic pressure, into a homogeneous mass substantially identical with the plaintiff's product. Just why the vegetable material is first moistened with magnesium chloride or what final effect it has does not clearly appear.

[3] The gist and principle of the invention lie in lightly coating the chips with mineral matter and then compressing them into a homogeneous mass having the qualities described in the patent, and these the defendant's product has. The patentee had to mix the chips either with magnesite or magnesium chloride first. But the patent does not state, nor do the proofs show, any advantage in the order. So far as appears, the order might have been reversed without effect. The transposition of some of the steps in a patented process, which does not change the principle, mode of operation, or result, does not avoid infringement. *Malignani et al.* v. *Germania Lamp Co.* (C. C.) 169 F. 290; *Malignani et al.* v. *Hill-Wright Electric Co.* (C. C.) 177 F. 430; *General Electric Co.* v. *Hill-Wright Electric Co.* (C. C. A.) 174 F. 996. The defendant in our opinion uses the process and obtains the product of the patent and therefore infringes it.

The decree is accordingly affirmed.

## Patent Suits.

[Notices under sec. 4911, R. S., as amended Feb. 18, 1922.]

1,013,672, W. B. McCann, Ice-cream freezer, D. C., S. D. N. Y., Doc. E 41/360, *Auto Vacuum Freezer Co., Inc.*, v. *The Stirrup Mfg. Co., Inc.* Stipulation dismissing case Oct. 27, 1928.

1,158,123, R. A. Fessenden, Apparatus for generating and receiving electromagnetic waves, filed Oct. 17, 1928, D. C., N. D. Ohio, E. Div., Doc. 2693, *Radio Corp. of America et al.* v. *The Sparks-Withington Co.*

1,218,880, J. E. McGinnes, Heating apparatus, D. C., W. D. N. Y., Doc. E 980, *The Buckeye Blower Co.* v. *H. J. Wood & Co., Inc.* Dismissed Oct. 19, 1928.

1,247,540, W. Jones, Purification of sewage and analogous liquids, appeal filed Sept. 11, 1926, C. C. A., 7th Cir., Doc. 4091, *Activated Sludge, Inc.*, v. *The Sanitary District of Chicago.*

1,298,974, W. L. Sullivan, Check-issuing machine, D. C., S. D. N. Y., Doc. E 37/24, *National Electric Ticket Register Co.* v. *Automatic Ticket Register Corp.* Dismissed Oct. 18, 1928.

1,307,734, A. V. Gullborg, Lubricating means, filed Oct. 15, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2207–L, *The Bassick Mfg. Co.* v. *Hi-Pressure Sales Co., Inc.*

1,399,482, H. C. Hirschy, Wringer, C. C. A., 8th Cir. (St. Louis), Doc. 7852, *Wisconsin-Minnesota Gas & Electric Household Appliance Co.* v. *The Hirschy Co.* Affirmed Oct. 13, 1928.

1,445,193, E. Alschuler, Battery hand lamp, C. C. A., 8th Cir. (St. Louis), Doc. 7967, *H. Hymen* v. *F. W. Woolworth Co.* Affirmed Oct. 11, 1928.

1,450,032, J. W. Gardner, Compressor mechanism, C. C. A., 7th Cir., Doc. 3811–3816, *Wall Pump & Compressor Co.* v. *Gardner Governor Co.* Affirmed as to claims 4, 14, 16, 20, and 24 and reversed as to claims 42, 47, 49, and 51 Sept. 13, 1928.

1,460,716, B. F. Greer, Book-form savings bank, D. C., N. D. Ohio, E. Div., Doc. 2585, *Bankers Utilities Co., Inc., et al.* v. *The Bankers Savings & Credit System Co.* Dismissed under rule 22 Sept. 12, 1928. Same, D. C., N. D. Calif. (San Francisco), Doc. 2069–L, *Bankers Utilities Co., Inc.*, v. *Schwabacher-Frey Stationery Co.* Decree for plaintiff Oct. 20, 1928.

1,492,361, M. J. Davy, Fastener, D. C., S. D. N. Y., Doc. E 39/73, *M. J. Davy* v. *M. H. Strube.* Consent decree for plaintiff Oct. 22, 1928. Same, D. C., S. D. N. Y., Doc. E 40/307, *M. J. Davy* v. *Diecherhoff, Raffloer & Co., Inc.* Dismissed for want of equity Oct. 22, 1928.

1,520,683, S. E. MacGregor, Composition of matter, filed Oct. 17, 1928, D. C., E. D. Mich. (Detroit), Doc. 2974, *S. E. MacGregor* v. *P. C. Chesterfield.*

1,533,858, L. A. Hazeltine, Neutralizing capacity coupling in audions, filed Oct. 18, 1928, D. C., S. D. N. Y., Doc. E 47/36, *Hazeltine Corp.* v. *Grigsby-Grunow Co. et al.*

1,554,898, A. F. Teigen, Tobacco pipe, filed Sept. 12, 1928, D. C. Minn. (St. Paul), Doc. 1263, *A. F. Teigen et al.* v. *United Cigar Stores Co. of America.*

1,561,836, N. Q. Donnelly, Apron, filed Oct. 19, 1928, D. C., S. D. N. Y., Doc. E 47/37, *Donnelly Garment Co.* v. *The Brand Hat Co., Inc.* Consent decree for plaintiff Oct. 26, 1928.

1,562,226, C. Glantz, Folding chair, D. C. Mass., Doc. E 3010, *C. Glantz et al.* v. *Brown Bros. Co.* Injunction Oct. 18, 1928.

1,562,521, C. P. Schlegel, Grip strap, filed Oct. 16, 1928, D. C., S. D. N. Y., Doc. E 47/21, *The Schlegel Mfg. Co.* v. *H. Rubin (Rubin Trimming Works).*

1,568,761, Miles & Bayless, Siren and attaching means therefor, filed Oct. 6, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–55–M, *L. H. Miles* v. *C. P. Meussdorffer et al.*

1,576,125, S. P. Yeo, Night depository entrance, filed Oct. 24, 1928, D. C., S. D. N. Y., Doc. E 47/53, *S. P. Yeo* v. *Herring, Hall, Marvin Safe Co.*

1,605,446, F. L. Killian, Machine for manufacturing thin rubber articles, D. C., N. D. Ohio, E. Div., Doc. 2218, *P. H. Stevens* v. *The J. L. Shank Rubber Co.* Claims 1, 8, 9, 11, and 15 to 20, incl., held valid and infringed Oct. 18, 1928.

1,607,589, I. J. Kusel, Coin bank and process of making, appeal filed Sept. 24, 1928, C. C. A., 7th Cir., Doc. 4067, *Stronghart Co.* v. *Bankers Thrift Corp. et al.*

1,614,191, H. H. Everhard, Ventilating screen, filed Oct. 18, 1928, D. C., N. D. Ohio, E. Div., Doc. 2695, *H. H. Everhard* v. *The F. H. Schumacher Co.*

1,664,980, A. Holtz, Trimming and method of making same, filed Oct. 22, 1928, D. C., S. D. N. Y., Doc. E 47/39, *Sadinoff & Wendroff, Inc.*, v. *H. Weisrub (Weisrub Bros.).*

1,665,428, C. Wagner, Ditcher, D. C. Colo. (Denver), Doc. 3727, *C. Wagner* v. *J. Kessler.* Decree for plaintiff Oct. 26, 1928.

1,669,837, W. Hertsberg, Mop mounting, D. C., S. D. N. Y., Doc. E 46/27, *W. Hertsberg* v. *Maxwell Brushes, Inc.* Consent decree for plaintiff Oct. 22, 1928. Same, filed Oct. 22, 1928, D. C., S. D. N. Y., Doc. E 47/40, *W. Hertsberg* v. *N. Yelroff et al.* (*Globe Brush Mfg. Co.*).

1,684,756, W. S. Close, Means for shipping by parcel post, filed Oct. 23, 1928, D. C., S. D. N. Y., Doc. E 47/52, *Ad-Tape Co., Inc.*, v. *J. J. Brandt et al.*

Re. 13,477, H. Hoerlein, Phenylethylbarbituric acid, D. C., S. D. N. Y., Doc. E 42/41, *Synthetic Patents Co., Inc., et al.* v. *P. Kocherin (Kocherin Drug Co.).* Consent decree for plaintiff Oct. 26, 1928.

Des. 56,902, J. L. Wentz, Dish or receptacle, filed Oct. 18, 1928, D. C., S. D. N. Y., Doc. E 47/35, *J. L. Wentz* v. *Rubbeross Products, Inc.*

Des. 67,837, J. N. Joerger, Casing for cylinder oiler, D. C., S. D. Calif. (Los Angeles), Doc. E L–30–M, *Oroverolier Co. of America* v. *Joy Mfg. Co.* Dismissed Oct. 16, 1928.

Des. 69,358, A. Orlik, Tobacco pipe, D. C., S. D. N. Y., Doc. E 40/57, *A. Orlik, Inc.*, v. *Delecour & Lewis Corp.* Consent decree for plaintiff Oct. 27, 1928.

Des. 74,384, E. E. Nahon, Chair, filed Oct. 17, 1928, D. C., S. D. N. Y., Doc. E 47/32, *E. E. Nahon et al.* v. *The Imperial Upholstering Corp.*

T. M. 89,918, H. H. Hughes, Stock and poultry food, D. C., N. D. Ala. (Birmingham), Doc. 616, *Ralston Purina Co.* v. *Western Grain Co.* Defendant enjoined from using the word "Just" or expression "Just Right" Sept. 5, 1928.

# TRADE-MARKS

OFFICIAL GAZETTE, NOVEMBER 27, 1928.

[VOL. 376. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

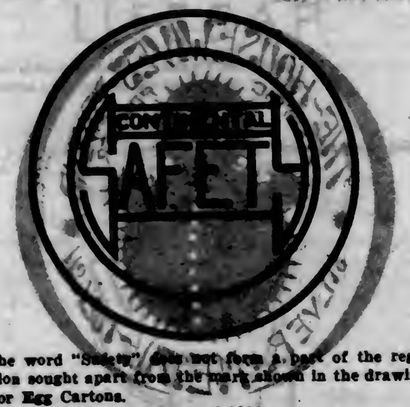
Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 2.

### Receptacles.

Ser. No. 246,001. THE SAFETY CARTON & CONTAINER COMPANY, Cincinnati, Ohio. Filed Mar. 18, 1927.




The word "Safety" does not form a part of the registration sought apart from the mark shown in the drawing.

For Egg Cartons.

Claims use since beginning of 1909.

Ser. No. 265,507. UNION BAG & PAPER CORPORATION, New York, N. Y. Filed Apr. 27, 1928.

MARSHMALLOW

For Paper Bags.

Claims use since Mar. 15, 1922.

## CLASS 3.

### Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 270,771. LIVINGSTON BROS., INC., San Francisco, Calif. Filed Aug. 8, 1928.

*Solette*

For Children's and Ladies' Hand Bags.

Claims use since July 21, 1928.

Ser. No. 273,956. JESSICA M. BRADY, Mamaroneck, N. Y. Filed Oct. 18, 1928.

BRADKA

For Traveling Bags.

Claims use since Sept. 5, 1928.

## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 256,856. MAYER & SCHMIDT, SCHLEIFMASCHINEN & SCHMIRGELWERKE, A. G., Offenbach-on-the-Main, Germany. Filed Oct. 20, 1927.

*Elektrorubin*

For Abrasive Materials in Blocks and Grains and Abrasive Grinding Wheels, Disks, and Segments.

Claims use since October, 1901.

Ser. No. 258,306. WILLIAM R. ZEMINGER, West Baden, Ind. Filed Dec. 1, 1927.

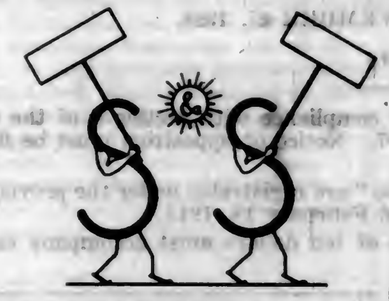
TAM O'WATER
HOROLOGIC STONE

No claim is made for the exclusive use of the words "Horologic Stone."

For Abrasive Stones.

Claims use since Sept. 1, 1927.

Ser. No. 265,043. GERTRUDE GREEN, doing business as S. & S. Cleaning Products Co., Birmingham, Ala. Filed Apr. 18, 1928.



For Household Cleaning Compound.
Claims use since Apr. 3, 1928.

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Ser. No. 267,020. WALGREEN CO., Chicago, Ill. Filed May 25, 1928.




The words "Peau-Doux" form a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Shaving Cream.
Claims use since Mar. 1, 1926.

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Ser. No. 267,357. OTTO HOLZMAN, doing business as Le Roy Manufacturing Co., Chicago, Ill. Filed June 13, 1928.

**Magicleen**

For Soaps.
Claims use since about May, 1927.

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Ser. No. 271,942. G. H. PACKWOOD MFG. CO., St. Louis, Mo. Filed Sept. 5, 1928.

**PAX**

For Powdered Soap Product That Has Antiseptic Properties, and That Very Efficiently Cleans the Skin of All Grease, Paint, Dirt, Etc.
Claims use since June, 1928.

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Ser. No. 272,644. DARNEE INC., New York, N. Y. Filed Sept. 19, 1928.

**LA SPANGLA**

For Toilet Soaps.
Claims use since Sept. 11, 1928.

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Ser. No. 273,482. B. ALTMAN & CO., New York, N. Y. Filed Oct. 6, 1928.

**ALSAM**

For Toilet Soap.
Claims use since May 3, 1927.

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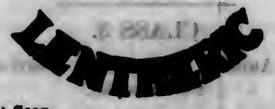
Ser. No. 273,492. JOSEPH FEIGLESON, Brooklyn, N. Y. Filed Oct. 8, 1928.




No claim is made to the words "Powder" and "Silver and Metal Polish" apart from the mark shown in the drawing.
For Silver and Metal Polish.
Claims use since Sept. 1, 1928.

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Ser. No. 273,552. LENTHERIC, INCORPORATED, New York, N. Y. Filed Oct. 9, 1928.




For Toilet Soap.
Claims use since 1873.

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Ser. No. 273,722. SAPOLIN CO. INC., New York, N. Y. Filed Oct. 12, 1928.

**RONORO**

For Metal Polish.
Claims use since Oct. 5, 1928.



## CLASS 5.
## Adhesives.

Ser. No. 272,961. CRYSTAL SPRINGS PASTE COMPANY, Boston, Mass. Filed Sept. 26, 1928.

**HANDY**

For Adhesive Paste, Adhesive Paste Powder, and Adhesive Wall Size.
Claims use since November, 1906.

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## CLASS 6.
## Chemicals, Medicines, and Pharmaceutical Preparations.

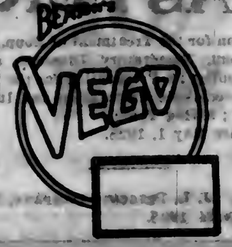
Ser. No. 239,123. IRVING KULIK, doing business as Kulik Lifesap Products Corporation, Brooklyn, N. Y. Filed Oct. 28, 1926.

**LIFESAP**

For Hemoglobin Enriching Iron Tonic.
Claims use since on or about Apr. 1, 1926.

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Ser. No. 243,504. SMITH CHEMICAL CORPORATION, Johnson City, Tenn. Filed Jan. 28, 1927.




No claim is made for the word "Vego" aside from the mark shown in the drawing.
For Tonic Having Laxative and Diuretic Qualities.
Claims use since Oct. 16, 1926.

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Ser. No. 260,791. MARTIN VAN BUREN CREAGAN, doing business as Van Seaton Chemical Co., Fort Worth, Tex. Filed June 20, 1927.

**Aspir-Mint**

The descriptive word "Mint" is disclaimed apart from the mark shown.
For Soluble Aspirin Tablets to be Used for La Grippe, Colds, Neuralgia, Lumbago, Acute Rheumatism, Sore Throat, and Headache.
Claims use since Jan. 1, 1926.

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Ser. No. 256,165. H. TH. BÖHME A. G., Chemnitz, Germany. Filed Oct. 17, 1927.

**Benso**

For Finishing and Dressing Preparations for Textile Goods.
Claims use since May 25, 1914.

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Ser. No. 261,542. THE WEINBERGER DRUG COMPANY, Cleveland, Ohio. Filed Feb. 10, 1928.

**SUPERIOR HEALTHO LABORATORIES**

For Medicines and Pharmaceutical Preparations—Eczema Lotions, Emulsion of Cod-Liver Oil, Insecticides, Syrup of Hypophosphite, Laxative Preparations, Stomach-Tonic, an Antiseptic and Deodorant; a Preparation for the Relief of Tired, Aching, Swollen, and Inflamed Feet; Analgesic Liniment, Astrin, Lemon Cream, Cold Cream, Foot Powder, Skin Salve, Vanishing Cream, Diuretic Capsules, Cinchophen (Acid Phenylcinch. U. S. P.), Rheumatic Capsules, and Hemorrhoidal Suppositories.
Claims use since Nov. 25, 1927.

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Ser. No. 261,965. LA POMPADOUR, INC., Minneapolis, Minn. Filed Feb. 20, 1928.




The words "Toilet Requisites" apart from the trade-mark as shown in the drawing are disclaimed.
For Cold Creams, Vanishing Creams, Tissue Creams, Face Powders, Perfumes, Hair Oils, Hair Tonics, Lemon Creams, Foundation Creams, Hand Lotions, Face Lotions, After-Shaving Lotions, Marcelling Oils, Toilet Waters, Body Powders, Bath Salts, Bath Perfumes, Liquid Powders, Rouge, Lip Stick, Massage Creams, Massage Oils, Massage Liquids, Mouth Washes, and Tooth Paste.
Claims use since July 1, 1927.

Ser. No. 264,768. ANTONINO R. MARTINO, doing business as Italy Laboratories, New York, N. Y. Filed Apr. 13, 1928.




Applicant disclaims the use of the word "Nor!" apart from the mark as shown.

For Blood and Nerve Tonic.

Claims use since Aug. 1, 1927.

Ser. No. 265,049. M R SON COMPANY, Boston, Mass. Filed Apr. 18, 1928.




For Preparation for the Treatment of Colds, Sore Throat, Neuralgia, Sciatica, Lumbago, Acute Rheumatism, Headache, Earache, Toothache, and Periodical Pains.

Claims use since Sept. 26, 1927.

Ser. No. 266,747. THE ROYCE R. POWELL COMPANY, Cleveland, Ohio. Filed May 21, 1928.

CĀ-DIS

For Medicine for Use in Treatment of Canine Distemper.

Claims use since Mar. 30, 1928.

Ser. No. 269,036. CHARLES PFIZER & COMPANY, New York, N. Y. Filed July 3, 1928.

CIOMA

For Laxative.

Claims use since May 3, 1928.

Ser. No. 269,263. SCHERING-KAHLBAUM A. G., Berlin, Germany. Filed July 7, 1928.

Selectan

For Medicinal Preparations for Subcutaneous and Intravenous Injection for the Treatment of Streptococcic Infections.

Claims use since about January, 1927.

Ser. No. 269,276. BAUMWIG DRUG COMPANY, Los Angeles, Calif. Filed July 9, 1928.

GRAPE SALT

For Preparation Intended for the Treatment of Constipation, Indigestion, and Headache Due to Liver Disorders Resulting from the Excessive Use of Alcoholic Beverages and for Use as a Laxative and as a Diuretic.

Claims use since Dec. 1, 1919.

Ser. No. 269,676. MASTER REMEDIES COMPANY, Omaha, Nebr. Filed July 16, 1928.

MASTER

For Preparation for the Treatment of Roup, Pox, Canker, Diphtheritic Roup, Respiratory Diseases, and Brooder Pneumonia of Poultry; a Preparation for the Treatment of Diarrhea and Coccidiosis Preparation and Intestinal Diseases of Poultry; a Hog Tonic.

Claims use since May 1, 1928.

Ser. No. 270,096. J. L. PRESCOTT COMPANY, Philadelphia, Pa. Filed July 24, 1928.




The lining for color appearing on the drawing is for the purpose of illustration only. The picture shown is manciful.

For Germicide Deodorant, Sterilizer Disinfectant, Cleanser, and Bleacher.

Claims use since June 11, 1928.

Ser. No. 270,661. SCIENTIFIC MANUFACTURING COMPANY, INCORPORATED, Scranton, Pa. Filed Aug. 6, 1928.

Pheno-Isolin

For Antiseptic.

Claims use since Apr. 1, 1927.



Ser. No. 270,662. CARL H. WAHLS, doing business as L. A. Knight Co., St. Louis, Mo. Filed Aug. 6, 1928.

PEARLO

For Tooth Whitener a Preparation for Removing Tartar, Nicotine and Other Unsightly Stains from the Teeth.

Claims use since about May 28, 1928.

Ser. No. 271,607. JOHN J. KNOLLS, doing business as San-Tan Laboratories, Cedar Rapids, Iowa. Filed Aug. 27, 1928.

SEPTO-SAN

For Vaginal Suppositories.

Claims use since on or about Mar. 1, 1926.

Ser. No. 271,695. M. M. FLEBON & SON, INC., doing business as Bercy's Laboratories, Trenton, N. J. Filed Aug. 29, 1928.

JOY RUB

The word "Rub" is disclaimed apart from the mark as shown.

For Astringent, Antiseptic Lotion, Face Lotions, Hair Tonic, Shampoo and Dandruff Cream.

Claims use since June, 1905.

Ser. No. 272,237. FLORIDA PINE EXTRACTS COMPANY, Tampa, Fla. Filed Sept. 13, 1928.




For Scientifically-Prepared Pine Tar for Treatment of Mange and All Skin Diseases of Dogs and Other Animals.

Claims use since June 15, 1928.

Ser. No. 272,564. K. P. & S. PHARMACAL COMPANY, Lamont, Okla. Filed Sept. 17, 1928.




The word "Menthol" is disclaimed apart from the mark shown on the drawing.

For Medical Compound to be Used as a Gargle for Sore Throat or as an Antiseptic Wash in Various Cases of Infection.

Claims use since Oct. 1, 1927.

Ser. No. 272,576. PEOPLES DRUG STORES, INC., also doing business as Shure-Fyre Products Company, Washington, D. C. Filed Sept. 17, 1928.




For Spirits for Filling Pocket Cigarette and Cigar Lighters.

Claims use since Sept. 1, 1927.

Ser. No. 272,735. WILLIAM NATHANIEL PERKINS, Hoboken, N. J. Filed Sept. 20, 1928.




The drawing is lined for the colors blue and gold.

For Liniment for Use in the Treatment of Rheumatism.

Claims use since Sept. 15, 1928.

Ser. No. 272,760. KALAK WATER CO. OF NEW YORK, INC., New York, N. Y. Filed Sept. 21, 1928.




For Artificially-Prepared Alkaline Water for Neutralising the Acidity of the Urine.

Claims use since June 26, 1915.

Ser. No. 272,788. R. L. Bruce Co., Memphis, Tenn. Filed Sept. 22, 1928.

BRU-CELL-IZE

For Chemical Composition for Impregnating Wood to Protect It Against Moisture, Absorption, Insects, Decay, and the Like.

Claims use since January, 1928.

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Ser. No. 272,811. G. W. Higgs & Co., Ada, Okla. Filed Sept. 22, 1928.



H.S.B.

The portrait appearing on the drawing is that of W. H. Higgs, a member of the firm.

For Stomach Bitters, Cough Syrup, Ointment for Use in the Treatment of Piles, Chill Tonic, and Syrup of Pines for Use in the Treatment of Rheumatism.

Claims use since Apr. 10, 1928.

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Ser. No. 272,965. Samuel Lewis Summers, Whitemarsh Township, Pa. Filed Sept. 25, 1928.

GUAIBEN

For Medicinal Compound for Use in the Treatment of Coughs, Colds, Catarrhal Conditions, Influenza, Pneumonia, and Bronchitis.

Claims use since Sept. 10, 1928.

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Ser. No. 273,071. L. T. Pivan, Inc., Wilmington, Del., and New York, N. Y. Filed Sept. 27, 1928.

CARMINADE

For Perfumed Extracts.

Claims use since Sept. 11, 1928.

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Ser. No. 273,111. Arthur McWilliams, doing business as Colloseal Laboratories, Columbus, Ohio. Filed Sept. 28, 1928.

COLDSEAL

"Sweetens the Body"

No claim is made to the words "Sweetens the Body" except in the association shown.

For Alkaline Treatment for Colds, Grippe, and Intestinal Flu.

Claims use since Apr. 1, 1928.

Ser. No. 273,171. Abortis Company, Fond du Lac, Wis. Filed Oct. 1, 1928.

ABORTIS

For Medicinal Preparation for Treating Abortion in Cattle.

Claims use since July 15, 1927.

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Ser. No. 273,236. Frank Keezer, doing business as The T. S. P. Co., Haverhill, Mass. Filed Oct. 2, 1928.

T.S.P.

For Chemical Preparation for Removing Rust and Scale from the Water-Cooling Systems of Internal-Combustion Engines.

Claims use since Sept. 1, 1928.

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Ser. No. 273,504. L. Leichner, Incorporated, New York, N. Y. Filed Oct. 8, 1928.

Evenglo

For Toilet Powder, Toilet Water, Cold Cream, Rouge.

Claims use since about Aug. 20, 1928.

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Ser. No. 273,516. Joseph Christopher Shepard, Wilmington, N. C. Filed Oct. 8, 1928.

NO-BAC-T

For Sanitary Washing Compounds, Disinfectants, and Deodorizers.

Claims use since on or about Dec. 8, 1927.

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Ser. No. 273,557. National Aniline & Chemical Company, Inc., New York, N. Y. Filed Oct. 9, 1928.

BARNAC

For Organic Chemical Compound for Use as a Flotation Agent.

Claims use since Sept. 10, 1928.

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Ser. No. 273,797. Demetre Bouroucoglou, doing business as Hair Palm Tonic Co., St. Louis, Mo. Filed Oct. 15, 1928.

SULTAN MAIZED

For Toilet Products—Namely, Toilet Water and Hair Tonic.

Claims use since Oct. 1, 1928.



Ser. No. 273,919. Houbigant, Inc., New York, N. Y. Filed Oct. 17, 1928.

AU LOIN

For Perfume, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Vegetal.

Claims use since Oct. 9, 1928.

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Ser. No. 273,920. Houbigant, Inc., New York, N. Y. Filed Oct. 17, 1928.

L'ART DE PLAIRE

For Perfume, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Vegetal.

Claims use since Oct. 9, 1928.

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Ser. No. 273,921. Houbigant, Inc., New York, N. Y. Filed Oct. 17, 1928.

RAFFINEMENTS

For Perfume, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Brilliantine, Bandoline, Rouge, Lip Sticks, Dusting Powder, Sachet, Cold Creams, Lotion for the Skin and Hair, Powder and Rouge Compacts, and Vegetal.

Claims use since Oct. 9, 1928.

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Ser. No. 273,968. Irving Horowitz, doing business as Lenore Perfume and Bag Shop, Brooklyn, N. Y. Filed Oct. 18, 1928.

La Ronele

For Toilet Articles—Namely, Face Lotions, Face Creams, Face Powders, Toilet Powders, Talcum Powders, Rice Powders, Perfumes, Toilet Waters, Bath Salts, Sachets, Bleaches, Pomades (in Pots, Sticks, and Cakes), Lip Sticks and Pastes, Hair Tonics, Rouges (Liquid, Powder, and Compact).

Claims use since about July 15, 1927.

Ser. No. 274,059. David Mason, New York, N. Y. Filed Oct. 20, 1928.

BELLE HEAVEN

For Toilet Articles—Namely, Face Lotions, Face Creams, Face Powders, Toilet Powders, Talcum Powders, Rice Powders, Perfumes, Toilet Waters, Bath Salts, Smelling Salts, Sachets, Bleaches, Pomades (in Pots, Sticks, and Cakes), Hair Tonics, Rouges (Liquid, Powder, and Compact), and Preparations for Scenting the Bath.

Claims use since Sept. 1, 1928.

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Ser. No. 274,068. The Preservaline Manufacturing Co., Brooklyn, N. Y. Filed Oct. 20, 1928.

VEGECOL

For Vegetable Coloring for Foods, Especially Smoked Meats (including Sausage, Hams, Bacon) and Smoked Fish.

Claims use since 1906.

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Ser. No. 274,121. Frederick J. McFarland, doing business as WellsEver Company, Galveston, Tex. Filed Oct. 22, 1928.

"WellsEver"

For Preparations for Cuts, Burns, Sores, Wounds, and Blisters; Preparation for Coughs, Diarrhea, Stomach Troubles, Headaches, Rheumatism, Cramps; a Laxative; Preparation for Canker Sores, Diarrhea, Fever Blisters, Eczema, Dandruff, and Pyorrhea; and a Foot Powder.

Claims use since July, 1928.

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CLASS 7.

Cordage.

Ser. No. 261,648. Ralli Brothers, New York, N. Y. Filed Feb. 13, 1928.



For Binding Cord of Jute Fibre.

Claims use since July 1, 1904.

## CLASS 8.

**Smokers' Articles, Not Including Tobacco Products.**

Ser. No. 267,338. BORDONS, MARNEO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Marble Ash Trays and Receivers.
Claims use since May, 1927.

Ser. No. 270,209. SCHNEIDER BROTHERS INC., Chicago Ill. Filed July 26, 1928.

SMOTHERSTAND

For Combination Ash Tray, Cigarette and Match Holder.
Claims use since Apr. 15, 1928.

## CLASS 10.

**Fertilizers.**

Ser. No. 271,700. THEODORE KRUMM, doing business as The Krumm Mfg. Co., Redlands, Calif. Filed Aug. 29, 1928.

KRUMM'S DIAMOND X BRAND

The descriptive word "Brand" appearing on the drawing is disclaimed apart from the mark as shown.
For Fertilizers.
Claims use since July 6, 1928.

Ser. No. 272,586. VIRGINIA-CAROLINA CHEMICAL CORPORATION, Richmond, Va. Filed Sept. 17, 1928.

VIRGINIA CAROLINA V-C Fertilizers CHEMICAL CORP.

No claim is made to the word "Fertilizers" apart from the mark shown.
For Fertilizers.
Claims use since 1911.

Ser. No. 273,353. BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Oct. 4, 1928.

BAUGH'S HALF CENTURY PERFECTION BRAND

No claim is made to the words "Perfection Brand" apart from the mark shown in the drawing.
For Fertilizer.
Claims use since about 1911.

## CLASS 11.

**Inks and Inking Materials.**

Ser. No. 271,548. GRAPHITE PAPER COMPANY, Chicago, Ill. Filed Aug. 25, 1928.

GraphicWrite

For Ink Ribbons and Carbon Paper.
Claims use since Aug. 7, 1927.

## CLASS 12.

**Construction Materials.**

Ser. No. 265,625. RUDOLPH J. KUDLATA, doing business as Holestite Plaster Base Company, Chicago, Ill. Filed Apr. 30, 1928.

HOLESTITE

For Plaster Base.
Claims use since Feb. 29, 1928.



Ser. No. 272,221. KEYSTONE PORTLAND CEMENT COMPANY, Philadelphia, Pa. Filed Sept. 11, 1928.

KEYSTONE

For Portland Cement.
Claims use since July 15, 1923.

Ser. No. 273,269. THE M. B. FARRIN LUMBER CO., Cincinnati, Ohio. Filed Oct. 3, 1928.

Seal dri

For Oak, Maple, Ash, and Gum Flooring.
Claims use since June 19, 1928.

Ser. No. 273,309. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed Oct. 3, 1928.

TROWELTEX

For Composition Used as a Plaster and Wall Finish.
Claims use since Sept. 13, 1923.

## CLASS 13.

**Hardware and Plumbing and Steam-Fitting Supplies.**

Ser. No. 257,094. BRIDGEPORT BRASS COMPANY, Bridgeport, Conn. Filed Nov. 5, 1927.

COPPERITE

For Piping, Tubing, Pipe Fitting, Pipe Couplings, Vent Tubes, and Sink Traps, All of Metal.
Claims use since on or about Aug. 28, 1927.

Ser. No. 268,117. SIGG A. G., Frauenfeld, Switzerland. Filed June 15, 1928.

ARTA SIGG

No claim is made to the exclusive use of the word "Sigg" apart from the mark as shown.
For Hardware—Namely, Pans, Kettles, Steamers, Ladles, Egg Poachers, Pie Dishes, Food Moulds, Patty Tins, Teapots, Coffeepots, Butter Dishes, Colanders, Tea and Coffee Strainers, Bowls, Trays, Soup Tureens, Cruets, Egg Cups, Serviette Rings, Tumbler and Teapot Stands, Funnels, Wall Soap Dishes, Shaving Bowls, Soap Trays, Cake Dishes and Baskets, Mugs, and Cups, All Being Goods of Metal.
Claims use since May 30, 1927.

Ser. No. 271,701. LAVELLE RUBBER CO., Chicago, Ill. Filed Aug. 29, 1928.

DUR-A-BAL

No claim is made to the exclusive right to the word "Bal" apart from the mark shown in the drawing.
For Flush-Tank Valve Balls.
Claims use since Mar. 1, 1928.

Ser. No. 272,378. WHEELING STEEL CORPORATION, Wheeling, W. Va. Filed Sept. 13, 1928.

COP-R-LOY

For Wire Nails, Cut Nails, Woven-Wire Fencings, Barbed Wire, and Track Spikes.
Claims use since July 25, 1928.

Ser. No. 273,162. SHEET ALUMINUM CORPORATION, Jackson, Mich. Filed Sept. 29, 1928.

HYB-LUM Art Craft Ware

No claim is made for the word "Ware" or to the representation of the utensil apart from the mark as shown in

the drawing. The lining of the knob and handle of the utensil is for the color red.

For Base-Metal Pots, Pans, Kettles, Percolators, Roasters, Food Cookers, Bowls, Basins, Colanders, Steamers, Fryers, Strainers, Pitchers, Dippers, Cups, Saucers, Plates, Trays, and Table Hollow Ware.

Claims use since Aug. 20, 1928.

## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 271,723. EDGAR T. WARD'S SONS COMPANY, Pittsburgh, Pa. Filed Aug. 29, 1928. Under 10-years proviso.

MUNKFORS BRAND

The word "Brand" is disclaimed apart from the mark shown in the drawing.

For Strip Steel.

Claims use since Feb. 18, 1894.

Ser. No. 273,059. MORRIS, WHEELER & CO., INC., Philadelphia, Pa. Filed Sept. 27, 1928.

**"Mor Weld"**

For Steel Welding Rods for Welding by the Acetylene and Electric Method, Alloy-Steel Welding Rods for Welding by the Electric Method, Cast-Iron Welding Rods, Aluminum Welding Rods, Nickel-Steel Welding Rods, High-Carbon-Steel Welding Rods, Vanadium-Alloy Welding Rods, Manganese-Bronze Welding Rods, and Manganese-Steel Welding Rods for Welding by the Acetylene Method.

Claims use since Dec. 15, 1927.

Ser. No. 273,824. LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed Oct. 15, 1928.

KA2

For Alloy Steel.

Claims use since Oct. 11, 1928.

Ser. No. 273,825. LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed Oct. 15, 1928.

KA2S

For Alloy Steel.

Claims use since Oct. 11, 1928.

## CLASS 15.

### Oils and Greases.

Ser. No. 265,688. PHILLIPS PETROLEUM COMPANY, Bartlesville, Okla. Filed Apr. 30, 1928.

WOOLAROC

For Gasoline and Lubricating Oils.

Claims use since August, 1927.

Ser. No. 269,495. UTILITY OIL CORPORATION, Long Island City, N. Y. Filed July 12, 1928.

SUPER X MOTOR OIL

The words "Motor Oil" appearing on the drawing are disclaimed apart from the mark as shown and used.

For Petroleum Products—Namely, Gasoline, Kerosene, Lubricating Oils, and Lubricating Greases.

Claims use since February, 1926.

Ser. No. 269,804. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y. Filed July 18, 1928.

PRIMOL

For Highly-Refined White Lubricating Oils and Non-Sticking Oils for Confectioners' and Bakers' Use.

Claims use since June 14, 1928.

Ser. No. 270,812. UTILITY OIL CORPORATION, Long Island City, N. Y. Filed Aug. 9, 1928.

SUPER-X

For Petroleum Products—Namely, Gasoline, Kerosene, Lubricating Oils, and Lubricating Greases.

Claims use since February, 1926.



Ser. No. 271,328. WHITE STAR REFINING CO. OF DELAWARE, Detroit, Mich. Filed Aug. 20, 1928.

STAR-O-PENN

For Lubricating Oils and Greases.

Claims use since about Apr. 10, 1928.

Ser. No. 271,981. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

DARK POCO

No claim is made to the exclusive use of the word "Dark" apart from the mark as shown in the drawing.

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils and Greases, and Steam-Cylinder Oils.

Claims use since Sept. 10, 1924.

Ser. No. 271,982. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

ENERGY

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils, Lubricating Greases, and Gasoline.

Claims use since July 5, 1923.

Ser. No. 271,987. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

M—MINERAL

No claim is made to the word "Mineral" apart from the mark as shown in the drawing.

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils and Greases, Steam-Cylinder Oil, Calender-Lubricating Oil, and Crusher-Lubricating Oil.

Claims use since Sept. 10, 1924.

Ser. No. 271,996. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

PUROLA

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils, Lubricating Greases, and Engine, Dynamo, Diesel, Compressor, and Harvester Lubricants.

Claims use since Sept. 10, 1924.

376 O. G.—51

Ser. No. 271,998. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

PURON

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils and Greases, Engine, Dynamo, Gas-Engine, and Bearing Lubricants.

Claims use since Sept. 10, 1924.

Ser. No. 272,000. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

ROLLEX

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils, Lubricating Greases, and Engine, Dynamo, Spindle, Turbine, Gas-Engine, Crank-Case, and Compressor Lubricants.

Claims use since Sept. 10, 1924.

Ser. No. 272,003. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

TIOL

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils and Greases, Engine, Diesel, Compressor, and Harvester Lubricants.

Claims use since Sept. 10, 1924.

## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 253,295. SOCIETE ANONYME DES ETABLISSEMENTS LEFRANC, Paris, France. Filed Aug. 10, 1927.

MARQUE

DE FABRIQUE

The words "Marque de Fabrique" are disclaimed. The lining shown on the drawing is for shading purposes only.

For Artists' Oil Colors, Water Colors in Granular Form and in the Form of Paste, Powder, and Cakes; Varnishes; and Paints, Dry and Ready Mixed.

Claims use since June 14, 1885.

Ser. No. 268,830. F. J. WICKS, Sr., Casper, Wyo. Filed June 28, 1928.

RED ROSE WAX-IT

The descriptive term "Wax-It" is disclaimed apart from the mark shown in the drawing.

For Preparation for Polishing, Preserving, and Protecting Furniture and Automobiles and All Painted and Varnished Surfaces.

Claims use since June 6, 1928.

Ser. No. 269,989. SAMUEL CABOT, INC., Boston, Mass. Filed July 21, 1928.

Flexiblac

For Waterproof Paints and Paint Coatings.
Claims use since April, 1915.

Ser. No. 270,524. THE TISIT COMPANY, Haddon Heights and Camden, N. J. Filed Aug. 2, 1928.

TISIT

For Polish for Furniture, Pianos, Automobiles, and Painted and Varnished Surfaces.
Claims use since June 7, 1926.

Ser. No. 272,144. DETROIT WHITE LEAD WORKS, Detroit, Mich. Filed Sept. 10, 1928.

Oh-Boy

For Polish for Cleaning and Polishing Motor Cars, Furniture, and All Other Lacquered, Varnished, and Enameled Surfaces.
Claims use since on or about Apr. 21, 1920.

Ser. No. 272,808. ALFRED HAGUE & COMPANY, INC., New York, N. Y. Filed Sept. 22, 1928.

RUBALT

For Ready-Mixed Paints.
Claims use since Aug. 10, 1928.

Ser. No. 272,886. HERBERT P. HARDING, Chicago, Ill. Filed Sept. 24, 1928.

ASBEST-O-PHALT

For Ready-Mixed Paint.
Claims use since May 15, 1928.

## CLASS 17.

### Tobacco Products.

Ser. No. 260,594. POR LARRANAGA FABRICA DE TABACOS, Habana, Cuba. Filed Jan. 24, 1928.



For Cigars, Cheroots, and Little Cigars.
Claims use since October, 1908.

Ser. No. 263,984. M. TRELLES & COMPANY, New Orleans, La. Filed Mar. 29, 1928.



For Cigars, Cheroots, Cigarettes, and Little Cigars.
Claims use since Apr. 1, 1914.

Ser. No. 264,639. THE GOLD LEAF CIGARETTE & TOBACCO COMPANY, Habira, Ga. Filed Apr. 10, 1928.

OTEEN

For Cigarettes.
Claims use since Jan. 29, 1928.

Ser. No. 271,567. RAMON RODRIGUEZ, Habana, Cuba. Filed Aug. 25, 1928.

LADY STANHOPE

The trade-mark consists of the name "Lady Stanhope" a historical character, made famous in early history.
For Cigarettes.
Claims use since January, 1927.



Ser. No. 273,233. A. HANNAN & BRO., Pittsburgh, Pa. Filed Oct. 2, 1928. Under 10-year proviso.




For Stogies and Cigars.
Claims use since May 28, 1892.

## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 272,023. CUTS-CRAFT COMPANY, Fall River, Mass. Filed Sept. 7, 1928.

CUTS-CRAFT

Exclusive right to the use of the word "Craft" by itself and separate from the rest of the mark is disclaimed.
For Outboard-Motor Racing Hulls.
Claims use since Mar. 1, 1927.

Ser. No. 272,634. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y. Filed Sept. 19, 1928.

acf

For Railway Cars, Car Wheels; Boats—Namely, Motor Cruisers, Launches, Rowboats, Excursion Boats, and Barges.
Claims use since Apr. 28, 1926.

Ser. No. 272,636. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y. Filed Sept. 19, 1928.

ACF

For Railway Cars and Structural Parts Thereof.
Claims use since May, 1927.

Ser. No. 272,697. CHILDS-SHAW, INCORPORATED, Minneapolis, Minn. Filed Sept. 20, 1928.

B&J

For Automobile Awnings.
Claims use since Apr. 6, 1928.

Ser. No. 272,971. BACH AIRCRAFT COMPANY, INC., Santa Monica, Calif. Filed Sept. 26, 1928.



The word "Safety" is disclaimed apart from the mark shown in the drawing.
For Aeroplanes.
Claims use since on or about Nov. 11, 1926.

Ser. No. 273,200. MIDDLETOWN MILLWORK CO. INC., Middletown, Del. Filed Oct. 1, 1928.

DEL-MAR-VA BOATS

No claim is made to the word "Boats" apart from the mark shown.
For Motor Boats.
Claims use since Jan. 3, 1928.

Ser. No. 273,536. THE ANTWERP ENGINEERING CO. (SOC. ANON.), Antwerp, Belgium. Filed Oct. 9, 1928.

Aquamobile

For Boats, Canoes, Launches, Ships, and Skiffs, All Provided with Motors.
Claims use since July 1, 1928.

## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 256,602. BARNEY & BERRY, INC., New Haven, Conn. Filed Oct. 26, 1927. Under section 5b of the act of 1905 as amended in 1920.

BARNEY & BERRY

No claim is made to the exclusive use of the words "Trade Mark" apart from the mark shown on the drawing. Under section 9 (1920) owner of Certificate No. 181,758, effected under the 10-year proviso.
For Flash Lights and Batteries.
Claims use since Oct. 10, 1927.

Ser. No. 260,002. MILES F. DEACH, Oakland, Calif. Filed Jan. 12, 1928.

**AJUST-O-LIER**

For Adjustable Electric-Lighting Fixtures for the Shop, Garage, Store, Office, and Home.
Claims use since Sept. 1, 1925.

Ser. No. 264,541. TEMPLE, INCORPORATED, Chicago, Ill. Filed Apr. 7, 1928.

**DEALEROLA**

For Loud Speakers of the Telephonic-Receiver Type Suitable for Use in Connection with Radio Receiving Sets and Phonographs.
Claims use since Aug. 25, 1927.

Ser. No. 264,752. HENRY L. CROWLEY & COMPANY, INC., East Orange, N. J. Filed Apr. 13, 1928.

**CROLITE**

For Ceramic, Electric Insulating Compound.
Claims use since Apr. 6, 1928.

Ser. No. 270,285. ELECTROLUX, INC., New York, N. Y. Filed July 28, 1928.




The words "Made in Sweden" are disclaimed apart from the mark shown in the drawing.
For Electrically-Driven Household Appliances Comprising Floor Polishers and Parts Therefor.
Claims use since Feb. 11, 1928.

Ser. No. 271,890. THE GEM ENGINEERING CORPORATION, Hempstead, N. Y. Filed Sept. 4, 1928.

*The ASTRACHRON*

For Electrical Switching Apparatus Controlling the Flashing of Lights or the Like.
Claims use since July 1, 1927.

Ser. No. 272,179. OHMITE MANUFACTURING COMPANY, Chicago, Ill. Filed Sept. 10, 1928.

**OHMITE**

For Resistors for Voltmeters, X-Ray Work, Electric Locomotives, Dimming Headlights; Radio Receivers, Transmitters, and Battery Eliminators; Electric-Furnace Control, Motor-Speed Control, Etc.
Claims use since Aug. 1, 1925.

Ser. No. 272,337. ALEXANDER LIPTON, doing business as Allied Metal Industries, Inc., Inglewood, Calif. Filed Sept. 13, 1928.

**BOOKOLIER**

For Electric Lamps.
Claims use since Aug. 1, 1928.

Ser. No. 272,496. INDIANA LAMP CORPORATION, Connersville, Ind. Filed Sept. 15, 1928.

**APROVLITE**

For Electric Tail Lamps for Vehicles.
Claims use since Aug. 24, 1928.

Ser. No. 272,528. THE ARMSTRONG ELECTRIC AND MANUFACTURING CORPORATION, Huntington, W. Va. Filed Sept. 17, 1928.

**OLD SOUTH**

For Electrical Waffle Irons.
Claims use since Aug. 30, 1928.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 269,088. CHRYSON'S, INC., Los Angeles, Calif. Filed July 5, 1928.

**CHRYSON'S**

For Playing Cards and Novelty Games—Namely, Puff Billiards.
Claims use since June 1, 1925.



Ser. No. 270,212. A. G. SPALDING & BROS., New York, N. Y. Filed July 26, 1928.



No claim is made to the representation of a golf ball. The mark consists of a plurality of isolated or spaced red figures of approximately square or diamond shape distributed around the surface of the balls.
For Golf Balls.
Claims use since June 29, 1928.

Ser. No. 270,565. LOUIS AMBERG & SON, New York, N. Y. Filed Aug. 4, 1928.

**SO BIG**



No claim is made to the representation of the doll broadly, but only for the particular form of doll shown.
For Dolls.
Claims use since July 17, 1928.

Ser. No. 272,471. THE DENT HARDWARE COMPANY, Fullerton, Pa. Filed Sept. 15, 1928.

**"LUCKY BOY"**

For Toy Aeroplanes, Toy Pistols, and Wheeled Toys.
Claims use since Sept. 1, 1928.

Ser. No. 272,858. R. H. BUHRKE COMPANY, Chicago, Ill. Filed Sept. 24, 1928.

*Medalist*

For Golf Clubs.
Claims use since Aug. 30, 1928.

Ser. No. 272,859. R. H. BUHRKE COMPANY, Chicago, Ill. Filed Sept. 24, 1928.

*Stylist*

For Golf Clubs.
Claims use since Dec. 1, 1926.

Ser. No. 272,978. CONDUIT AND GOLD, Chicago, Ill. Filed Sept. 26, 1928.

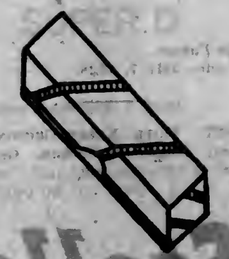
**SANTA SON**

For Footballs, Baseballs, Baseball Bats, Baseball Gloves, Basket Balls; Tennis Rackets, Balls, and Nets; Volley Balls, Musical Toys, Toys on Wheels, Toy Stuffed Animals, Dolls, Doll Carriages, Doll Clothes, Doll Houses, Coaster Sleds, Skates, Tobogans, Toy Furniture, Toy Totem Poles and Igloos, Toy Games, Toy Stockings, Toy Christmas Trees, Toy Aeroplanes.
Claims use since Sept. 1, 1928.

## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 247,756. AUG. REUTERSHAN G. M. B. H. STAHLWARENFABRIK, Solingen, Germany. Filed Apr. 20, 1927.



The lining used in the drawing is intended to show red color.
For Tin Openers and Corkscrews.
Claims use since July 8, 1926.

Ser. No. 262,483. THE PHILADELPHIA DRYING MACHINERY COMPANY, Philadelphia, Pa. Filed Mar. 1, 1928.

HURRICANE

Applicant claims ownership of Trade-Marks No. 67,853, No. 67,854, and No. 67,855, all issued Feb. 25, 1908, and all renewed, and of No. 131,361, issued May 11, 1920. No claim is made to the exclusive use of the words "Ideal Drying Every Day" apart from the mark shown in the drawing.

For Drying Machines, and Cooling and Conditioning Machines, Combined or in Separate Units, for Use in the Textile Industry in the Handling of Fibres and Fabrics; in the Ceramic Industry Including Dryers for Tableware, Enameled Ware, Electrical Insulators, Spark Plugs, Saggers, Crucibles, Tiles, and the Like; in Chemical Industries, Tobacco Dryers, Leather Dryers, and Paper Dryers, and Vacuum Extractors.

Claims use since Feb. 22, 1924.

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Ser. No. 267,340. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

# LITOSLAZULI

For Marble Soda Fountains, Marble Automobile Gear-Shift Ball Tops, and Marble Valve Tops for Soda Fountains.

Claims use since May, 1927.

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Ser. No. 271,392. LE ROY H. LABAW, doing business as L. R. H. Labaw & Company, Belle Mead, N. J. Filed Aug. 22, 1928.

## "The Little Gusher"

For Drainage Pumps.

Claims use since July 7, 1928.

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Ser. No. 272,027. FRIED. KRUPP GRUSONWERK AKTIENGESELLSCHAFT, Magdeburg-Buckau, Germany. Filed Sept. 7, 1928.

# *Stella*

For Machinery for Reclaiming Fibres from Fibrous Plants.

Claims use since Feb. 3, 1928.

Ser. No. 272,302. PETERS AND RUSSELL, INC., Springfield, Ohio. Filed Sept. 12, 1928.

# DUOTROL

For Combined Carburetor Choke Control and Electric Starter Actuator for Internal-Combustion Engines.

Claims use since on or about Apr. 1, 1928.

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Ser. No. 272,513. ROYAL TYPEWRITER COMPANY, INC., New York, N. Y. Filed Sept. 15, 1928.

# ROYTYPE

For Typewriting-Machine Accessories, and Particularly for Cushion or Rubber Keys for Typewriting Machines, for Rubber Cushion Feet for Typewriting Machines, and for Rubber Twirler Knobs and Rings for Typewriter Platens.

Claims use in respect to cushion or rubber keys for typewriting machines since Mar. 8, 1928; to rubber cushion feet for typewriting machines since May 23, 1928; and to rubber twirler knobs and rings since May 31, 1928.

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Ser. No. 273,181. THE BRIDGEPORT HARDWARE MANUFACTURING CORPORATION, Bridgeport, Conn. Filed Oct. 1, 1928.



For Screw Drivers.

The trade-mark consists in having the end portion of the handle colored red in contrast to the remainder of the handle. The straight-line hatching in the drawing at the end portion of the handle indicates the color red. No claim is made to any trade-mark rights in the handle or other portions of the screw driver illustrated.

Claims use since Apr. 1, 1928.



Ser. No. 273,182. THE BRIDGEPORT HARDWARE MANUFACTURING CORPORATION, Bridgeport, Conn. Filed Oct. 1, 1928.



For Screw Drivers.

The trade-mark consists in having the end portion of the handle colored orange in contrast to the remainder of the handle. The broken-line hatching in the drawing at the end portion of the handle indicates the color orange. No claim is made to any trade-mark rights in the handle or other portions of the screw driver illustrated.

Claims use since Apr. 1, 1928.

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Ser. No. 273,404. MANCHA STORAGE BATTERY LOCOMOTIVE COMPANY, St. Louis, Mo. Filed Oct. 5, 1928.

## "COALGETTER"

For Coal-Loading Machines.

Claims use since July 27, 1928.

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Ser. No. 273,435. ASIA DRUG COMPANY, INC., New York, N. Y. Filed Oct. 6, 1928.

# SUNRISE

For Razor Blades.

Claims use since Apr. 18, 1928.

Ser. No. 273,537. ASIA DRUG COMPANY, INC., New York, N. Y. Filed Oct. 9, 1928.



Applicant disclaims exclusive right to the representation of the wrapper shown in the drawing except as the same is used in connection with the other features of the mark.

For Razor Blades.

Claims use since Apr. 18, 1928.

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Ser. No. 273,682. THE CLEVELAND FILE COMPANY, Cleveland, Ohio. Filed Oct. 12, 1928.

## S-D

For Files.

Claims use since about Aug. 1, 1928.

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Ser. No. 273,683. THE CLEVELAND FILE COMPANY, Cleveland, Ohio. Filed Oct. 12, 1928.

## SUPER. D

For Files.

Claims use since about Aug. 1, 1928.

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Ser. No. 273,684. THE CLEVELAND FILE COMPANY, Cleveland, Ohio. Filed Oct. 12, 1928.

## SUPER DUTY

For Files.

Claims use since about Aug. 1, 1928.

Ser. No. 273,887. ROLLS RAZOR (1927) LIMITED, London, England. Filed Oct. 16, 1928.




For Safety Razors.
Claims use since Apr. 1, 1922.

Ser. No. 274,074. D. B. SMITH & COMPANY, INC., Utica, N. Y. Filed Oct. 20, 1928.

SAVOL

For Hand and Power Operated Sprayers, Spray Pumps, Fire Pumps, Pumps, Spray Guns, Continuous Sprayers, Compressed-Air Sprayers, Bucket Pumps, Barrel Pumps, Knapsack Sprayers, Air Brushes, Atomizers for Domestic and Industrial Purposes, and Powder Dusters.
Claims use since on or about June 15, 1928.

Ser. No. 274,122. WILLIS L. MCQUEEN, Dallas, Tex. Filed Oct. 22, 1928.

IDEAL

For Hedge Cutter and Trimmer.
Claims use since Aug. 14, 1928.

## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 272,729. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

THE BRASS CHIEF



Applicant disclaims the word "Brass" apart from the mark as shown.
For Washboards.
Claims use since about Jan. 1, 1907.

Ser. No. 272,730. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

Model Globe

For Washboards.
Claims use since about Jan. 1, 1907.

Ser. No. 272,732. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

THE SILVER CHIEF



For Washboards.
Claims use since about Jan. 1, 1907.

Ser. No. 272,733. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

MAJESTIC MEDIUM LAUNDRY

Applicant disclaims apart from the mark as shown the words "Medium Laundry."
For Washboards.
Claims use since about Jan. 1, 1907.

Ser. No. 272,734. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich. Filed Sept. 20, 1928.

MIDGET

FOR USE IN KITCHEN SINK

Applicant disclaims the words "For Use in Kitchen Sink" apart from the mark as shown.
For Washboards.
Claims use since about Jan. 1, 1907.

Ser. No. 273,568. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood, Cincinnati, Ohio. Filed Oct. 10, 1928.

CHAMPION

For Dry-Cleaning Machines.
Claims use since Sept. 17, 1928.



## CLASS 25.

### Locks and Safes.

Ser. No. 270,906. ZEISS IKON AKTIENGESELLSCHAFT, Dresden, Germany. Filed Aug. 11, 1928.

Zeiss Ikon

For Locks, Keys, Safety Locks, Safety Keys, and Cash Boxes.
Claims use since Oct. 1, 1926.

Ser. No. 273,018. C. SHOCKLEY, doing business as Bank Manufacturing Co., Los Angeles, Calif. Filed Sept. 26, 1928.

SPIRIT OF SAVING

For Money Container in the Nature of a Portable Home Savings Bank.
Claims use since July 1, 1928.

## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 273,021. STILLFILM COMPANY, Los Angeles, Calif. Filed Sept. 26, 1928.



The drawing is lined to indicate red, gold, and blue. No claim is made to the word "Stillfilm" apart from the mark as shown.
For Exposed Film of the Nature of Motion-Picture Film.
Claims use since the 10th day of October, 1927.

Ser. No. 273,246. LOUIS H. SCADRON, New York, N. Y. Filed Oct. 2, 1928.

"Thru Life with Better Vision."
OPTICAL GUILD PRODUCTS

Applicant is owner of trade-mark registration No. 227,969, dated May 17, 1927. Applicant disclaims all words appearing in the drawing excepting the word "Guild."
For Optical Instruments, Lenses, and Optical Products—Namely, Rough Lens Blanks, Bifocal Blanks, Bifocal Lenses, Ophthalmic Lenses, Eyeglass Frames and Mountings, Spectacle Frames and Mountings, Goggle Frames, Goggles, Eyeglass Springs, Eyeglass Studs, Eyeglass Guards, Spectacle Springs, Spectacle Temples or Bows, Spectacle Fronts, Spectacle Bridges, Eyeglass Bridges, Oxford Eyeglass Frames, Oxford Spectacle Frames.
Claims use since Oct. 10, 1914.

Ser. No. 273,247. LOUIS H. SCADRON, New York, N. Y. Filed Oct. 2, 1928.

"Thru Life with Better Vision."
OPTICAL Optometric Guild PRODUCTS

Applicant owns trade-mark registration No. 227,969, issued May 17, 1927. Applicant disclaims all words appearing in the drawing except the word "Guild."
For Optical Instruments, Lenses, and Optical Products—Namely, Rough Lens Blanks, Bifocal Blanks, Bifocal Lenses, Ophthalmic Lenses, Eyeglass Frames and Mountings, Spectacle Frames and Mountings, Goggle Frames, Goggles, Eyeglass Springs, Eyeglass Studs, Eyeglass Guards, Spectacle Springs, Spectacle Temples or Bows, Spectacle Fronts, Spectacle Bridges, Eyeglass Bridges, Oxford Eyeglass Frames, Oxford Spectacle Frames.
Claims use since Oct. 10, 1914.

## CLASS 27.

### Horological Instruments.

Ser. No. 272,235. THOMAS B. WILSON & COMPANY, Minneapolis, Minn. Filed Sept. 11, 1928.

WILSONIAN

For Watches and Clocks.
Claims use since May, 1928.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 261,813. HELGEN MANUFACTURING COMPANY, Providence, R. I. Filed Feb. 17, 1928.

TRADE MARK

No claim is made to the exclusive right to use of words "Trade Mark," apart from the mark as shown.
For Jewelry, Particularly Finger Rings, Brooches, Bracelets, Fobs and Charms, Ornamental Pins, Buttons of Precious Metal and Metal Plated with Precious Metal, and Necklaces.
Claims use since Dec. 15, 1927.

Ser. No. 263,260. DURAND & CO., Newark, N. J. Filed Mar. 16, 1928.



For Lockets, Brooches, Scarf Pins, Fobs, Finger Rings, Bracelets, Belt Buckles, Shoe Buckles, Combs, Clasps, Watch Chains, Necklaces, Hand Bags, Cigarette Cases, Cigar Cases, Match Boxes, Cigar Cutters, All Made of or Plated with Precious Metal.
Claims use since June 1, 1907.

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Ser. No. 263,958. MARK CROSS COMPANY, New York, N. Y. Filed Mar. 29, 1928.

ESTABLISHED 1821
MARK
CROSS
FACTORIES
WALSALL-WESTBURY
ENGLAND

The words "Factories Walsall-Westbury England" are disclaimed apart from the mark as shown. Applicant is owner of registrations Nos. 62,233 and 92,959, which cover the word "Cross" under the 10-year proviso.
For Silverware and Articles Trimmed or Plated with Silver—Namely, Candlestick Holders, Cocktail Sets, Flasks, Jewel Boxes, Baskets of Silver and Silver Trimmed.
Claims use since Jan. 8, 1928.

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Ser. No. 267,341. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Marble Stones for Rings, Scarf Pins, Brooches, Necklaces, Bracelets, Pendants, Pins, Buckles, Marble Beads, and Articles of Jewelry for Personal Wear, Not Including Watches.
Claims use since May, 1927.

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Ser. No. 269,194. L. & C. MAYERS CO., New York, N. Y. Filed July 6, 1928.

LYCEUM

For Jewelry for Personal Wear, Not Including Watches.
Claims use since Feb. 1, 1928.

## CLASS 30.

### Crockery, Earthenware, and Porcelain.

Ser. No. 271,152. TAYLOR, SMITH & TAYLOR COMPANY, East Liverpool, Ohio. Filed Aug. 16, 1928.

DURO-EDGE

No claim is made to the exclusive use of the descriptive term "Edge" apart from the mark shown in the drawing.
For Chinaware.
Claims use since July 14, 1928.

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## CLASS 31.

### Filters and Refrigerators.

Ser. No. 270,794. EDWARD FRIEDRICH, San Antonio, Tex. Filed Aug. 9, 1928.

"SEAPLANE"

For Refrigerator Counters.
Claims use since September, 1927.

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Ser. No. 273,400. HOLMES PRODUCTS, INC., New York, N. Y. Filed Oct. 5, 1928.



For Electric Refrigerators and Parts Thereof, Including Operating Mechanisms or Units.
Claims use since Sept. 10, 1927.

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Ser. No. 273,401. HOLMES PRODUCTS, INC., New York, N. Y. Filed Oct. 5, 1928.

HOLMES

For Electric Refrigerators and Parts Thereof, Including Operating Mechanisms or Units.
Claims use since Sept. 10, 1927.



## CLASS 32.

### Furniture and Upholstery.

Ser. No. 255,660. LEO T. HUNSTIGER, doing business as Space-Making Fixture Company, Chicago, Ill. Filed Oct. 5, 1927.

SPAMAC FIXTURES

No claim is made to the word "Fixtures" apart from the mark as shown.
For Display Racks and Parts Therefor, Including Brackets, Hooks, and Hanging Chains.
Claims use since Apr. 1, 1927.

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Ser. No. 267,202. FRED E. MOORE, Alhambra, Calif. Filed May 29, 1928.




For Furniture, Particularly an Article of Furniture in the Nature of a Chair Which May be Converted into a Lounge and Bed or the Like.
Claims use since Mar. 12, 1928.

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Ser. No. 267,342. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Marble Frames for Mirrors and Pictures, Marble Tops for Tables and Other Articles of Furniture and Marble Book Ends.
Claims use since May, 1927.

Ser. No. 272,118. UNITED STEEL AND WIRE COMPANY, Battle Creek, Mich. Filed Sept. 8, 1928.




For Steel and Wire Shelving for Stores, Warehouses, and the Like.
Claims use since Jan. 15, 1928.

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Ser. No. 273,112. OWEN CARD PUBLISHING COMPANY, INC., Elmira, N. Y. Filed Sept. 28, 1928.

CABINDEX

For Card Display and Supply Holder.
Claims use since Sept. 4, 1928.

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Ser. No. 273,231. GOODREST TRADING CORPORATION, Springfield, Mass. Filed Oct. 2, 1928.




No claim is made to the words "Quality, Durability, Health, Comfort," and "Mattress" apart from the mark as shown.
For Mattresses, Beds, Bed Springs.
Claims use since on or about July 1, 1928.

Ser. No. 273,310. NEW ORLEANS FURNITURE MANUFACTURING COMPANY, New Orleans, La. Filed Oct. 3, 1928.




For China Closets, Cupboards, Kitchen Cabinets, Medicine Cabinets, Filing Cabinets, Buffets, Mirrors, Picture Frames, Serving Tables, Console Tables, Occasional Tables, End Tables, Gate-Leg Tables, Card Tables, Folding Tables, Extension Tables, Nest of Tables, Tilt Tables, Davenport Tables, Tea Wagons, Vanity Tables, Semivanity Tables, Side Chairs, Windsor Chairs, Boudoir Chairs, Cogswell Chairs, High Chairs, Folding Stools, Folding Chairs, Rocking-Chairs, Armchairs, Piano Chairs, Lawn Chairs, Couches, Davenports, Folding Cots, Day Beds, Cribs, Beds, Bed Springs, Mattresses, Pillows, Metal Beds, Cots, Sliding Couches, Strollers, Settees, Chaise Longues, Vanity Dressers, Semivanities, Chiffoniers, Chiffonobes, Chiffonettes, Chest of Drawers, Lockers, Household Benches, Night Tables, Clothes Trees, Hatracks, Sewing Cabinets, Radio Cabinets (Exclusive of Sets) Radiotables, Telephone Sets Consisting of Tables and Chairs, Cabinet and Pedestal Smoking Stands, Cedar Chests, Desks, Bookcases, Taborets, Book Ends, Book Stands, Creepers, Children's Reed Rockers, Children's Reed Suits, Three-Piece Davenport Suits (Leather, Velour, Mohair, or Tapestry), Three-Piece Living-Room Suits (Leather, Velour, Mohair, or Tapestry), Three-Piece Reed Suits, Reed Tables, Reed Ferneries, Porch Rockers, Couch Hammocks, and Folding Dressing Screens.

Claims use since Dec. 6, 1927.

## CLASS 34.

### Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 269,061. WILSON BROTHERS, Media, Pa. Filed July 3, 1928.

WILSON AUTOMATIC
KOAL-DRAFTOR

The word "Automatic" is disclaimed apart from the other features of the mark shown in the drawing.

For Automatic Forced-Draft Blowers for Furnaces, Boilers, and Stoves.

Claims use since May, 1928.

Ser. No. 272,253. CLAYTON & LAMBERT MANUFACTURING CO., Detroit, Mich. Filed Sept. 12, 1928.




For Liquid-Fuel Blowtorches, Fire Pots, and Stoves.
Claims use since Oct. 1, 1903.

Ser. No. 272,254. CLAYTON & LAMBERT MANUFACTURING CO., Detroit, Mich. Filed Sept. 12, 1928.



The drawing is lined for the colors red and gold.
For Liquid-Fuel Blowtorches, Fire Pots, and Stoves.
Claims use since Apr. 1, 1928.

Ser. No. 272,255. CLAYTON & LAMBERT MANUFACTURING CO., Detroit, Mich. Filed Sept. 12, 1928.

C&L

For Liquid-Fuel Blowtorches, Fire Pots, and Stoves.
Claims use since Oct. 1, 1903.



Ser. No. 272,478. R FLINT CORPORATION, New York, N. Y. Filed Sept. 15, 1928.




No claim is made to the representation of the goods apart from the mark shown on the drawing. The vertical lines on the drawing represent red color.

For Flint for Pocket Cigar Lighters.
Claims use since January, 1928.

Ser. No. 272,479. R FLINT CORPORATION, New York, N. Y. Filed Sept. 15, 1928.




For Flint for Pocket Cigar Lighters.
Claims use since January, 1928.

Ser. No. 273,567. IRON FIREMAN MANUFACTURING COMPANY, Portland, Oreg. Filed Sept. 12, 1928.

FIREMAN

For Automatic Coal Burners.
Claims use since June 27, 1928.

Ser. No. 273,602. JESSE L. D. KEPPY, doing business as Ward Furnace Company, Oakland, Calif. Filed Oct. 10, 1928.

KE-RO-CO

For Gas Heaters.
Claims use since July 30, 1928.

## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 251,147. MILLS NOVELTY COMPANY, Chicago, Ill. Filed June 25, 1927.

Violano Virtuoso

For Combined Piano and Violin Instruments of the Automatic or Self-Playing Type.
Claims use since 1908.

Ser. No. 271,973. ARTHUR B. MILLER, Seattle, Wash. Filed Sept. 6, 1928.

SOPRANI

For Piano Accordions, Chromatic Accordions, German-Style Accordions, Accordion Stands, Cornets, Clarinets, Trumpets, Flutes, Banjos, Piccolos, Mandolins, Bassoons, Guitars, Oboes, Ukuleles, Violins, Cellos, Basses, Pianos, Organs, Saxophones, and Drums.
Claims use since July 1, 1928.

## CLASS 37.

### Paper and Stationery.

Ser. No. 253,533. THE DIARY PUBLISHING CORPORATION, New York, N. Y. Filed Aug. 16, 1927.

DPC Reminder Advertising

Applicant disclaims the right to the exclusive use of the word "Advertising" apart from the mark as shown in the drawing. The drawing is lined to indicate the color red.

For Advertising Specialties in Leather, Metal, and Celluloid—Namely, Desk Diaries, Pocket Diaries, and Memorandum Books Bound in Leather, Imitation Leather, or Paper, Desk Appointment Pads, Desk Blotters, Personal-Paper Cases, Shopping-List Books, Desk Boxes for Scratch Memorandum Papers, Golf-Score Memorandum Books, Signature Blotters, Wooden Pencils, Celluloid Visiting Cards, Mechanical Pencils, Binders, Rocker Blotters, Glass Paper Weights, Bridge-Score Memorandum Books, Desk Sets, Celluloid Telephone Indexes, Telephone-Book Holders.

Claims use since Mar. 1, 1927.

Ser. No. 261,289. THE SUPERIOR TYPE COMPANY, Chicago, Ill. Filed Feb. 6, 1928.

REDTOP

For Rubber Type.
Claims use since 1922.

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Ser. No. 262,489. THE SAGER PEN CORPORATION, Chicago, Ill., and New York, N. Y. Filed Mar. 1, 1928.




Applicant disclaims the right to the registration of the word "Sackless" and the representation of a fountain pen apart from the mark as shown.
For Fountain Pens.
Claims use since Nov. 1, 1926.

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Ser. No. 267,344. BORZONE, MARENGO & Co., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Marble Paper Weights, Marble Bases for Penholders and Fountain Pens, and Marble Ink Wells and Stands.
Claims use since May, 1927.

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Ser. No. 268,135. BINNEY & SMITH COMPANY, New York, N. Y. Filed June 16, 1928.




For Crayons, Slate Pencils, and Chalk.
Claims use since April, 1915.

Ser. No. 268,721. S. WALTER INCORPORATED, Philadelphia, Pa. Filed June 26, 1928.




The drawing is lined for the color yellow. The word "Yorktowne" is herein disclaimed apart from the mark shown.
For Wrapping Paper, Cardboard, Tissue Paper, Writing Paper, Bond Paper, Ledger Paper, Mimeograph Paper, Tablet Paper, Blotting Paper, Cover Paper, and Toilet Paper.
Claims use since April, 1928.

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Ser. No. 269,344. CALDWELL-SITES COMPANY, Roanoke, Va. Filed July 10, 1928.




For School Tablets, Composition and Note Books, Loose-Leaf Binders; Filler Paper—Namely, Cut and Punched Sheets in Packages for Loose-Leaf Binders; Boxed Writing Paper, Typewriter Paper, Mailing and Correspondence Envelopes; Pound Paper—Namely, Correspondence Paper Put in Solid Boxes; Paper Clips, and Pencils.
Claims use since January, 1928.



Ser. No. 273,348. STAUNTONS LIMITED, Toronto, Ontario, Canada. Filed Oct. 3, 1928.




No claim is made to the use of the words "Wallpaper" and "Its Beauty Lasts" apart from the mark as shown.
For Wall Paper.
Claims use since Jan. 27, 1928.

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## CLASS 38.

### Prints and Publications.

Ser. No. 260,360. SEYMOUR WEMYSS SMITH, doing business as The Financial Publishing Co., Hartford, Conn., and New York, N. Y. Filed Jan. 19, 1928.

The FINANCIAL DIGEST

For Monthly Magazine.
Claims use since on or about February, 1924.

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Ser. No. 266,962. Mrs. FANNIE B. WHITE, New York, N. Y. Filed May 24, 1928.

ANNABEL LEE

For Nom de Plume for Writings by the Applicant Appearing in Various Publications Such as Books and Newspapers.
Claims use since 1898.

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Ser. No. 272,252. THE CATHOLIC EDUCATION PRESS, INC., Washington, D. C. Filed Sept. 12, 1928.

THE CATHOLIC EDUCATIONAL REVIEW

For Periodical Published Monthly.
Claims use since January, 1911.

## CLASS 39.

### Clothing.

Ser. No. 238,512. MILLSAP-WOODRUFF COMPANY, INC., Birmingham, Ala. Filed Oct. 12, 1926.

SUPERB

For Men's and Boys' Caps and Dress, Negligee, and Work Shirts.
Claims use since Jan. 1, 1918.

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Ser. No. 243,574. AMERICAN LADY CORSET CO., Detroit, Mich. Filed Jan. 31, 1927.

ARTIST MODEL

Applicant owns registration No. 206,570. Applicant disclaims exclusive use of the word "Model."
For Ladies' Wearing Apparel—Namely, Cloaks, Capes, Wraps, Dresses, Gowns, Hats, Boudoir Caps, Underwear of Knitted and Textile Fabrics, Bath Robes, Gloves of Knitted Fabric or Leather, Hosiery, Negligees, Pajamas, Slips, Kimonos, Dressing Sacks, Petticoats, Tunics, Sport Skirts, Blouses, and Middies.
Claims use since January 1, 1927.

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Ser. No. 254,238. GIMBEL BROTHERS, INC., New York, N. Y. Filed Sept. 1, 1927.

Fashonia

For Women's Trimmed and Untrimmed Hats.
Claims use since Jan. 1, 1926.

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Ser. No. 254,946. THE UNITED STATES SHOE COMPANY, Cincinnati, Ohio. Filed Sept. 19, 1927.

ARCH PROTECTOR

For Men's, Women's, and Children's Shoes of Leather, Fabric, Rubber, and Combinations of Said Materials.
Claims use since October, 1920.

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Ser. No. 255,780. ULTRAMARES CORPORATION, New York, N. Y. Filed Oct. 7, 1927.

Optimo

For Hosiery, Sweaters, and Bathing Suits.
Claims use since July 14, 1927.

Ser. No. 259,740. SAMUEL LEWIS MERCHANT, Boston, Mass. Filed Jan. 5, 1928.

100% LIVE VIRGIN WOOL

Virwool

DYED IN THE WOOL

The words "100% Live Virgin Wool" are disclaimed apart from the mark as shown on the drawing.
For Overcoats for Men, Women, and Boys.
Claims use since Dec. 23, 1926.

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Ser. No. 263,599. H. FRIEDMAN HAT CO., INC., New York, N. Y. Filed Mar. 22, 1928.

Bentley Brooks

For Discriminating Dressers

No claim is made to the exclusive use of the words "For Discriminating Dressers" and "Bentley Brooks" apart from the mark shown. The lining indicates shading only.
For Men's Hats.
Claims use since Oct. 3, 1927.

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Ser. No. 263,704. JACKSON SHOE MANUFACTURING CORPORATION, New York, N. Y. Filed Mar. 24, 1928.

STONEWALL JACKSON

AS RELIABLE AS A STONEWALL

For Children's Shoes Made of Leather or Canvas or Combinations Thereof.
Claims use since Apr. 1, 1927.

Ser. No. 267,072. HARRY J. MOSKOWITZ, doing business as The Victor Infants Wear House, New York, N. Y. Filed May 26, 1928.

VICTOR

For Infants' Dresses, Infants' Capes, Infants' Coats, Infants' Nightgowns, Infants' Sleeping Bags, Infants' Kimonos, and Infants' Sacques.
Claims use since Jan. 1, 1919.

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Ser. No. 267,075. PARIS BROTHERS, New Orleans, La. Filed May 26, 1928.

Paris

Paris Hosiery

The Height of Fashion

Hosiery

The words "Paris" and "Hosiery" (both occurrences) and the term "The Height of Fashion" are disclaimed apart from the other features of the mark appearing in the drawing.
For Hosiery.
Claims use since Apr. 1, 1928.

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Ser. No. 267,928. CALYORK MANUFACTURING CO., Los Angeles, Calif. Filed June 13, 1928.

CAPAFLORIS

California Paris

Applicant disclaims the words "California" and "Paris" apart from the mark shown. The color linings on the drawing are not intended to indicate any particular color, but merely contrasting colors.
For Women's and Children's Hats and Caps.
Claims use since Apr. 5, 1928.



Ser. No. 268,696. THE C. J. LANG CLOTHING COMPANY, Akron, Ohio. Filed June 26, 1928.

THRIFTY-THIRTY FIVE

For Men's, Boys', and Youths' Suits and Overcoats.
Claims use since on or about Mar. 24, 1927.

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Ser. No. 270,292. HEIDELBERG, WOLFF & CO., New York, N. Y. Filed July 28, 1928.

Free-fit

For Outer Clothing—Namely, Men's and Boys' Overcoats, Raincoats, Smoking Jackets, House Coats, Norfolk Jackets, Topcoats, Sack Suits, Golf Suits, and Sport Suits.
Claims use since on or about July 1, 1928.

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Ser. No. 270,772. LIVINGSTON BROS., INC., San Francisco, Calif. Filed Aug. 8, 1928.

Solette

For Children's and Ladies' Hats, Hosiery, Knitted and Textile Underwear, Corsets, Leather and Fabric Gloves, Dresses, Coats, and Sweaters.
Claims use since July 21, 1928.

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Ser. No. 271,736. BANCROFT WALKER COMPANY, Boston and South Boston, Mass. Filed Aug. 30, 1928.

AMALGO

For Women's Leather Shoes.
Claims use since Aug. 24, 1928.



Ser. No. 271,896. KALMAN MONROE JACOBS, doing business as K. M. Jacobs Company, New York, N. Y. Filed Sept. 4, 1928.

ECLIPSE

For Hose Supporters.
Claims use since Aug. 14, 1928.

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Ser. No. 272,203. FASHION PARK INCORPORATED, Rochester, N. Y. Filed Sept. 11, 1928.

TAILORED AT FASHION PARK

The words "Tailored at" are disclaimed apart from the mark as shown.
For Women's Coats.
Claims use since about Jan. 1, 1915.

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Ser. No. 272,375. WOLIN-FEINBERG, INC., New York, N. Y. Filed Sept. 13, 1928.

MOSTWAIR

For Hosiery.
Claims use since July 2, 1927.

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Ser. No. 272,484. GENERAL GARMENT MANUFACTURING COMPANY, INCORPORATED, Petersburg, Va. Filed Sept. 15, 1928.

THE General WORK SHIRT

The words "The Work Shirt" are disclaimed apart from the mark as shown on the drawing.
For Clothing—Namely, Work Shirts.
Claims use since Mar. 15, 1928.

Ser. No. 272,642. H. CHILDS & CO. INC., Pittsburgh, Pa. Filed Sept. 19, 1928.

The Dolly Shoe

No claim is made to the word "Shoe" apart from the mark shown in the drawing.
For Shoes Made of Leather, Rubber, Fabric, or Combinations.
Claims use since July, 1928.

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Ser. No. 272,687. LOUIS BASKIND & COMPANY, INCORPORATED, New York, N. Y. Filed Sept. 20, 1928.

Gold Medal

The words "Gold Medal" are disclaimed apart from the mark shown in the drawing. The drawing is lined for yellow or gold.
For Men's and Boys' Dress, Negligee, Flannel, and Work Shirts and Pajamas.
Claims use since May 1, 1928.

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Ser. No. 272,688. THE BEARFOOT SOLE COMPANY, INC., Boston, Mass. Filed Sept. 20, 1928.

Bearfoot

For Soles of Rubber Composition or Its Equivalent for Boots and Shoes.
Claims use since about Apr. 1, 1924.

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Ser. No. 272,737. SHELBURNE SHIRT COMPANY, New York, N. Y. Filed Sept. 20, 1928.

Shelburne

The word "Shelburne" is disclaimed apart from the mark as shown in the drawing.
For Shirts—Namely, Dress, Negligee, and Work Shirts for Men and Boys.
Claims use since Mar. 9, 1928.

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Ser. No. 272,738. J. SHERROW & SON, New York, N. Y. Filed Sept. 20, 1928.

SHEROWEAR

The word "Wear" is disclaimed apart from the mark shown in the drawing.
For Ladies' Underwear of Knitted Rayon Fabrics, Woven Silk, and Woven Cotton Fabrics.
Claims use since July 1, 1928.

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Ser. No. 272,944. LIVINGSTON BROS., INC., San Francisco, Calif. Filed Sept. 25, 1928.

Libro

For Children's and Ladies' Hosiery, Knitted and Textile Underwear, Hats, Corsets, and Leather and Fabric Gloves.
Claims use since Aug. 20, 1928.

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Ser. No. 273,020. THE L. D. STICKLES SHOE COMPANY, Red Wing, Minn. Filed Sept. 26, 1928.




The mark consists in a fanciful picture and the name of a famous American nurse who served in the World War and is now deceased.
For Shoes for Women, Made of Leather, Satin, Canvas, Fabrics, and Combinations of These Materials.
Claims use since Aug. 20, 1928.

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Ser. No. 273,049. GLENWOOD MANUFACTURING COMPANY, Raleigh, N. C. Filed Sept. 27, 1928.

KING KOTTON

The word "Kotton" is disclaimed apart from the mark shown in the drawing.
For Work Clothing—Namely, Work Shirts.
Claims use since April, 1923.



Ser. No. 273,279. AMERICAN TEXTILES, INC., Bay City, Mich. Filed Oct. 3, 1928.

AUFAIT

For Hosiery for Men, Women, and Children.
Claims use since Sept. 5, 1928.

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Ser. No. 273,438. BEAR BRAND HOSIERY CO., Chicago, Ill. Filed Oct. 6, 1928.

CECILY

For Hosiery.
Claims use since June 29, 1928.

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Ser. No. 273,494. GRACE'S A SHOP FOR LADIES, Nashville, Tenn. Filed Oct. 8, 1928.

Grace's

For Women's Coats and Wraps, Dresses; Underwear, Silk and Knitted Silk; Silk Hosiery, Kimonos, and Negligees.
Claims use since Mar. 16, 1925.

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Ser. No. 273,497. KAHN TAILORING CO., Indianapolis, Ind. Filed Oct. 8, 1928.

KAHNCREST

For Men's Outer Wearing Apparel—Namely, Coats, Vests, Trousers, Suits, Overcoats, and Topcoats.
Claims use since Sept. 1, 1928.

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Ser. No. 273,566. THOMAS MILLS, INC., High Point, N. C. Filed Oct. 9, 1928.



RETRIEVER

For Hosiery.
Claims use since Aug. 28, 1928.

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Ser. No. 273,595. HEXTER GARMENT MFG. CO., Los Angeles, Calif. Filed Oct. 10, 1928.



"Colonial Dame"

For Women's, Misses', and Children's Dresses.
Claims use since Oct. 15, 1927.

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Ser. No. 273,624. THE B. V. D. COMPANY, INC., Baltimore, Md. Filed Oct. 11, 1928.

KNIT
THE B.V.D.CO.,INC.
ATHLETIC

No claim is made to the exclusive right to the use of the words "Knit" and "Athletic" apart from the mark shown.
For Knit Undershirts.
Claims use since Aug. 28, 1928.

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Ser. No. 273,645. THE BUCKEYE OVERALL COMPANY, Versailles, Coldwater, and Greenville, Ohio. Filed Oct. 11, 1928.

OVERONS

For Men's, Youths', and Boys' Overalls and Coveralls, Coats, Vests, and Pants; Women's, Misses', and Children's Frocks, Smocks, and Aprons; Children's Play Suits, and Baseball Suits.
Claims use since Aug. 27, 1928.

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Ser. No. 273,652. NATHAN S. GOLDMAN, Fort Wayne, Ind. Filed Oct. 11, 1928.

Frances Joan

For Hosiery
Claims use since January, 1925.

Ser. No. 273,668. PECK & PECK, New York, N. Y. Filed Oct. 11, 1928.

handwoven
hillbilly homespun

No claim is made to the exclusive right to the use of the words "Handwoven" and "Homespun" apart from the mark shown.
For Outer Suits and Coats for Women.
Claims use since July 1, 1928.

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## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 266,663. THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928.

CLIP-PER-ETTES

For Hairpins, Said Hairpins Being More Particularly Described as Composed and Made of Steel, Aluminite, and Various Other Metals, Alloys, and Materials; but Said Hairpins are Not Made of, Plated with, or Ornamented with Precious Metals.
Claims use since Nov. 19, 1926.

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Ser. No. 266,667. THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928.

LOX-THE-LOCKS

For Hairpins, Said Hairpins Being More Particularly Described as Composed and Made of Steel, Aluminite, and Various Other Metals, Alloys, and Materials; but Said Hairpins are Not Made of, Plated with, or Ornamented with Precious Metals.
Claims use since Apr. 7, 1927.

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## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 263,669. POSTER PARTS COMPANY, Terre Haute, Ind. Filed Mar. 23, 1928.

VEGO-CLOTH

The word "Cloth" is disclaimed apart from the mark as shown.
For Cotton Fabric in the Piece.
Claims use since Feb. 20, 1928.

Ser. No. 265,425. MAX DOFT, doing business as Princeton Knitting Mills, Brooklyn, N. Y. Filed Apr. 26, 1928.

Rex Ray

For Piece Goods Made of Rayon, Wool, and Mixtures Thereof from Which may be Made Children's, Ladies', and Men's Underwear.
Claims use since Feb. 10, 1928.

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Ser. No. 271,648. GOODALL WORSTED COMPANY, Sanford, Me. Filed Aug. 28, 1928.

Rolls-Moray

Applicant disclaims exclusive right to the word "Moray" separate and apart from the drawing.
For Piece Goods of Combinations of Cotton, Mohair, Wool, Silk, Alpaca, or Rayon to be Used as an Automobile Upholstery Fabric.
Claims use since Aug. 1, 1928.

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Ser. No. 272,914. WELCH, FAIRCHILD & CO., INC., New York, N. Y. Filed Sept. 24, 1928.




The words "Fabrics, Woolens," and "Flannels" are disclaimed apart from the mark shown. The lines on the drawing indicate shading.
For Woolen and Flannel Fabrics in the Piece.
Claims use since about August, 1927.

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Ser. No. 273,167. WECHSLER-BARBER SILK COMPANY, INC., New York, N. Y. Filed Sept. 29, 1928.

KLIDE-A-SCOPE

For Piece Goods of Silk, Cotton, and Wool and Mixtures of Silk and Cotton and Silk and Wool.
Claims use since Sept. 18, 1928.



Ser. No. 273,210. THE STONEWALL COTTON MILLS, Stonewall, Miss. Filed Oct. 1, 1928.

SUNSET

For Woolen Cheviot in the Piece.
Claims use since January, 1922.

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Ser. No. 273,358. BRIGHTON MILLS, Allwood and Passaic, N. J., and Shannon, Ga. Filed Oct. 4, 1928.

FIN-EDGE

For Netted Woven Cord Fabrics of Cotton.
Claims use since Oct. 15, 1927.

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Ser. No. 273,738. GRANVILLE A. BEALS, doing business as The Greenwich Mills, New York, N. Y. Filed Oct. 12, 1928.



No claim is made to the representation of the goods. The mark consists of adjacent green and orange stripes disposed in or immediately adjacent the selvage.
For Cotton, Woolen, and Worsted Fabrics.
Claims use since about Jan. 1, 1918.

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Ser. No. 274,020. STUNZI SONS SILK COMPANY, INC., New York, N. Y. Filed Oct. 19, 1928.

Tacca

For Artificial-Silk Crepe in the Piece.
Claims use since Oct. 12, 1928.

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Ser. No. 274,210. DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Oct. 24, 1928.

ROYSHIRE

For Woolen and Worsted Fabrics in the Piece.
Claims use since Sept. 29, 1928.

Ser. No. 274,211. DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Oct. 24, 1928.

ROXWIK

For Woolen and Worsted Fabrics in the Piece.
Claims use since Sept. 29, 1928.

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Ser. No. 274,212. DETMER, BRUNER & MASON, INC., New York, N. Y. Filed Oct. 24, 1928.

DELCHESTER

For Woolen and Worsted Fabrics in the Piece.
Claims use since Sept. 28, 1928.

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## CLASS 43.

### Thread and Yarn.

Ser. No. 273,186. COURTAULDS, LIMITED, London, England. Filed Oct. 1, 1928.

COURTO

For Yarns of Cellulose.
Claims use since Dec. 30, 1925.

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## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 220,841. COOK LABORATORIES, INC., Chicago, Ill. Filed Sept. 26, 1925.

Carpule

For Cartridges for Containing Medicament for Use in Hypodermic Syringes.
Claims use since about March, 1922.

Ser. No. 266,322. ALBERT A. HYDE, Wichita, Kans., and Buffalo, N. Y. Filed May 12, 1928.

GRENFELL
COLOSTOMY
POUCH
TRADE MARK

No claim is made to the use of the words "Colostomy Pouch, Trade-Mark" and the outline of a pouch apart from the mark shown in the drawing.
For Colostomy Pouch.
Claims use since Apr. 19, 1928.

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Ser. No. 272,380. THE BURDICK CORPORATION, Milton, Wis. Filed Sept. 14, 1928.

BURDICK

The lining on the drawing indicates the colors red and gold.
For Therapeutic Appliances and Parts Thereof—Namely, Light-Bath Cabinets, Deep Therapy Lamps, Infra-Red Lamps, Ultra-Violet Lamps, and Bakers.
Claims use since Dec. 19, 1923.

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Ser. No. 272,531. ASSOCIATED MERCHANDISING CORPORATION, New York, N. Y. Filed Sept. 17, 1928.

*Aimcee*

For Sanitary Napkins, Sanitary Shadow Skirts, Sanitary Aprons, Sanitary Dress Protectors, Sanitary Belts, Sanitary Step-Ins, and Sanitary Bloomers.
Claims use since February, 1927.

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Ser. No. 272,544. CLEVELAND IONOCO OFFICE, INC., Cleveland, Ohio. Filed Sept. 17, 1928.

THERONOID

For Therapeutic Solenoids.
Claims use since Sept. 13, 1928.

Ser. No. 272,714. HARRY C. HOCHSTADTER, Philadelphia, Pa. Filed Sept. 20, 1928.

CONCENTR SCHAEDE

For Eye Shades.
Claims use since Sept. 5, 1928.

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Ser. No. 273,118. STATE REGISTERED DENTISTS, Aberdeen, Wash. Filed Sept. 28, 1928.

CORALITE

For Denture Plates.
Claims use since November, 1926.

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Ser. No. 273,144. L. HILSENBECK, INC., New York, N. Y. Filed Sept. 29, 1928.

SPHINX

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Aug. 1, 1928.

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Ser. No. 274,002. L. BAMBERGER & COMPANY, Newark, N. J. Filed Oct. 19, 1928.

DUBBL-EX

For Sanitary Napkins.
Claims use since about Oct. 15, 1928.

## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 269,690. PEE DEE BOTTLING COMPANY, Wadesboro, N. C. Filed July 16, 1928.

PEE DEE CLUB

For Maltless, Nonalcoholic, Carbonated Beverages and Ingredients for Making the Same.
Claims use since about Dec. 1, 1927.



Ser. No. 273,977. PAUL J. MANDABACH, doing business as Na-Dru-Ho Springs, Chicago, Ill. Filed Oct. 18, 1928.

PAM
M-X-R

For Ginger Ale.
Claims use since Sept. 21, 1928.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 214,653. FIDALGO ISLAND PACKING COMPANY, Seattle, Wash. Filed May 21, 1925.

No claim is made to the representation of the fish apart from the mark as shown on the drawing.
For Canned Salmon.
Claims use since 1896.

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Ser. No. 228,670. SOUTH HAVEN PRESERVING CO., South Haven, Mich. Filed Mar. 15, 1926.

SWEET PEA

For Canned Fruits and Vegetables.
Claims use since about 1900.

Ser. No. 255,403. THE SPRAY COFFEE AND SPICE COMPANY, Denver, Colo. Filed Sept. 29, 1927.

THE SPRAY COFFEE & SPICE CO.

For Roasted Coffee Mixtures, Teas, Spices, Chocolate, Cocoa, Shredded Cocoanut, and Flavoring Extracts for Food.
Claims use since Feb. 28, 1906.

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Ser. No. 258,549. KUENZER & CO. AKTIENGESELLSCHAFT, Zurich, Switzerland. Filed Dec. 6, 1927.

COFFAROM

For Coffee, Coffee Substitutes, Succedaneous Coffee, Coffee Extracts, Natural and Synthetic Coffee Flavors, Cocoa, Chocolate, Candies, Pralines, Toffee, Biscuits, Wafers, Pastry, Cakes, Tarts, Chewing Gum, Gelatine, Puddings, Custards, Table Syrups, Ice Cream, Condensed Milk, and Malted Milk.
Claims use since Aug. 8, 1927.

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Ser. No. 261,288. SOUTH FLORIDA PRODUCTS CORP., Fort Pierce, Fla. Filed Feb. 6, 1928.

FLORIDA'S CALL




No claim is made to the phrase "Direct from Farms and Groves" apart from the mark as shown.
For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Canned Fruits, Canned Vegetables, Fruit Preserves, Canned Fish, Evaporated Fruits, Dehydrated Vegetables, Wheat Flour, and Guava Marmalade Made from Guavas, Sugar, and Water.
Claims use since Dec. 24, 1927.

Ser. No. 261,634. JOBBERS SERVICE INCORPORATED, Coldwater, Mich. Filed Feb. 13, 1928.



The lining appearing in the drawing is to indicate shading only.
For Coffee.
Claims use since Apr. 12, 1927.

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Ser. No. 264,620. WARFIELD-PRATT HOWELL COMPANY, Des Moines, Iowa. Filed Apr. 9, 1928.



The representation of the head shown in the trade-mark is fanciful.
For Canned Corn, Canned Peas, Canned Tomatoes, Canned Cherries, Coffee, Catsup, and Oatmeal.
Claims use since 1909.

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Ser. No. 266,040. NORWINE COFFEE COMPANY, St. Louis, Mo. Filed May 7, 1928.

DINING CAR

For Tea, Cocoa, Coffee, Food-Flavoring Extracts, and Spices.
Claims use since about Mar. 15, 1927, upon tea, cocoa, flavoring extracts, and spices, and since about Dec. 10, 1908, on coffee.

Ser. No. 267,062. KOLB'S BAKERY, Los Angeles, Calif. Filed May 26, 1928.

OVEN-JEM

The word "Oven" is disclaimed apart from the mark as shown on the drawing.
For Bread.
Claims use since Apr. 19, 1928.

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Ser. No. 268,944. WHITE SATIN MILLS CORPORATION, Minneapolis, Minn. Filed June 30, 1928.

WHITE SATIN

For Icing Sugar, Granulated Sugar, Powdered Sugar, and Loaf Sugar.
Claims use since July 15, 1921.

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Ser. No. 268,995. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Filed July 2, 1928.

Sippels KREME WHIPT HONEY

No claim is made to the words "Honey" and "Sippel's" apart from the mark shown in the drawing.
For Honey.
Claims use since June 1, 1928.

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Ser. No. 269,350. HORLUCKS, INC., Seattle, Wash. Filed June 10, 1928.




All the wording on the drawing is disclaimed apart from the mark shown.
For Ice Cream.
Claims use since Mar. 24, 1928.



Ser. No. 269,551. FULGENZIO C. RUSCONI, Merced, Calif. Filed July 13, 1928.

GOLDEN BIRD

For Fresh Grapes and Fresh Deciduous Fruits.
Claims use since Sept. 17, 1927.

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Ser. No. 269,584. GRIFFIN GROCERY COMPANY, Muskogee, Okla. Filed July 14, 1928.

POLAR BEAR

For Extract of Vanilla for Food Purposes, Prepared Cocoanut, Mincemeat, Coffee, Peanut Butter, Pickles, Grape Jelly, Apricot Preserves, Cherry Preserves, Powdered Sugar, Rice, Raisins, Black Pepper, and Macaroni.
Claims use since 1912.

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Ser. No. 269,784. HULL CANNING CO., INC., Port Orchard, Wash. Filed July 18, 1928.

"Just taste it"

For Canned Chicken.
Claims use since Jan. 1, 1928.

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Ser. No. 269,959. JACKSON BREWING COMPANY, New Orleans, La. Filed July 21, 1928.

SABANA

For Malt Syrup.
Claims use since May 1, 1928.

Ser. No. 270,895. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Filed Aug. 11, 1928.




For Table Syrup, Fruit Preserves, Jellies, Mincemeat, Honey, Garnishing Cherries and Grapes, Spiced and Sweet Pickled Fruits and Melons, Canned Fruits and Vegetables.
Claims use since Mar. 1, 1894.

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Ser. No. 270,937. NORDIC BAKING & IMPORTING COMPANY, Seattle, Wash. Filed Aug. 13, 1928.



The lining on the drawing indicates brown color for the representation of the loaf of bread and orange color for representation of the orange. The representation of a loaf of bread and the descriptive words "Rye Bread" are disclaimed apart from the mark as shown on the drawing.
For Rye Bread.
Claims use since Jan. 1, 1927.

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Ser. No. 271,056. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

ATLAS

For Molasses and Cane Syrup.
Claims use since July, 1928.

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Ser. No. 271,058. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

S. E. M.

The drawing is lined to indicate shading.
For Molasses and Cane Syrup.
Claims use since July, 1928.

Ser. No. 271,060. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

KIKI

For Molasses and Cane Syrup.
Claims use since July, 1928.

Ser. No. 271,061. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

ORED

For Molasses and Cane Syrup.
Claims use since July, 1928.

Ser. No. 271,272. SATISFACTION COFFEE CO., Braddock, Pa. Filed Aug. 18, 1928.

TROPICAL PIE

For Candy.
Claims use since July 6, 1928.

Ser. No. 271,425. BRAND-DUNWOODY MILLING COMPANY, Joplin, Mo. Filed Aug. 23, 1928.

MOZARKA

For Plain and Self-Rising Wheat Flour.
Claims use since Aug. 9, 1928.

Ser. No. 271,426. BRAND-DUNWOODY MILLING COMPANY, Joplin, Mo. Filed Aug. 23, 1928.

PASTRY QUEEN

For Plain and Self-Rising Wheat Flour.
Claims use since Aug. 13, 1928.

Ser. No. 271,547. FRUIT PRODUCTS COMPANY OF FLORIDA, Eagle Lake, Fla. Filed Aug. 25, 1928.

FLORIGOLD
BRAND

The word "Brand" is disclaimed apart from the other features of the mark shown in the drawing.
For Canned Grapefruit, Canned Grapefruit Juice, and Canned Orange Juice for Food Purposes.
Claims use since July 20, 1928.

Ser. No. 272,076. BLAKE & CHENEY, Portland, Me. Filed Sept. 8, 1928.

HOT-POT

For Canned Oven-Baked Beans and Pork, and Potato Chips.
Claims use since Mar. 1, 1928.

Ser. No. 272,115. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Sept. 8, 1928.

BESS LOUISIANA

No claim is made to the word "Louisiana" apart from the mark as shown.
For Molasses and Cane Syrup.
Claims use since July, 1928.

Ser. No. 272,322. CALIFORNIA GRAPE PRODUCTS CO. INC., Ukiah, Calif., and New York, N. Y. Filed Sept. 13, 1928.

GRAP-O-NEY

For Grape Syrup for Use in the Baking Industry.
Claims use since July 20, 1928.



Ser. No. 272,662. M. A. KENNAN & SONS, New London, Conn. Filed Sept. 19, 1928.

MALTHOP

The word "Malthop" is disclaimed apart from the mark shown in the drawing.
For Malt Extract.
Claims use since January, 1921.

Ser. No. 272,709. FISCHER BAKING CO., Newark, N. J. Filed Sept. 20, 1928.

FISCHER'S

The lining in the drawing indicates the color red.
For Crullers, Doughnuts, Pies, Pastry, Sweetened Crackers, and Cookies.
Claims use since Jan. 20, 1928.

Ser. No. 272,780. VERMONT MAPLE SYRUP CO. INC., Burlington, Vt. Filed Sept. 21, 1928.

PRIDE OF THE AD-I-RON-DACKS

For Maple Syrup.
Claims use since about April, 1911.

Ser. No. 272,782. VERMONT MAPLE SYRUP CO. INC., Burlington, Vt. Filed Sept. 21, 1928.

Mayflower

For Syrup Composed of Granulated Cane Sugar and Maple Syrup.
Claims use since about April, 1906.

Ser. No. 272,783. VERMONT MAPLE SYRUP CO. INC., Burlington, Vt. Filed Sept. 21, 1928.

Green Mountain Boy

For Syrups—Namely, Maple Syrups.
Claims use since about 1890.

Ser. No. 272,843. ZUCCA'S RESTAURANT, INC., also doing business as Zucca's Italian Gardens, New York, N. Y. Filed Sept. 22, 1928.

ZUCCA'S SOUP ZUCCA'S SOUP

No claim is made to the word "Minestrone" or "Soup" apart from the mark as shown.
For Soups.
Claims use since about Aug. 15, 1928.

Ser. No. 272,855. SIMON BITTERMAN, doing business as American Artichoke Products Company, Denver, Colo. Filed Sept. 24, 1928.

INULAX

For Dried Ground Jerusalem Artichokes.
Claims use since Aug. 2, 1928.

Ser. No. 272,916. WHITE SATIN SUGAR COMPANY, Minneapolis, Minn. Filed Sept. 24, 1928.

CREAM OF SUGAR

The word "Sugar" is disclaimed apart from the mark as shown in the drawing.
For Icing Sugar and Granulated Sugar.
Claims use since June 15, 1927.

Ser. No. 273,035. WHITE-STOKES CO., INC., Chicago, Ill. Filed Sept. 26, 1928.

WHISTOJEL

For Pectin Product for Use in Making Cast and Cut Plain and Fruit Jellies for the Confectioner, Baker, and Soda Fountain.
Claims use since Sept. 10, 1928.

Ser. No. 273,066. PIEL BROS. STARCH CO., Indianapolis, Ind. Filed Sept. 27, 1928.




The words "Corn Starch" are disclaimed apart from the mark shown.
For Cornstarch.
Claims use since Sept. 14, 1928.

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Ser. No. 273,083. TARKIO MOLASSES FEED CO., Kansas City, Mo. Filed Sept. 27, 1928.




No claim is made to the words "Greatest and Best Fat Producer" apart from the mark as shown.
For Animal Feeds—Namely, Molasses Feed, Sugar Cottonseed Feed, and Dairy Feed.
Claims use since Oct. 1, 1913.

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Ser. No. 273,089. OTTO H. WILLARD, doing business as The Indian Products Company, Chicago, Ill. Filed Sept. 27, 1928.

**SQUAW STEW**

The word "Stew" is hereby disclaimed apart from the other features of the mark.
For Canned, Hydrated, or Dry Compound of Vegetables, Meats, or Nuts and Eggs.
Claims use since Aug. 30, 1928.

Ser. No. 273,306. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Oct. 3, 1928.

**Pony Express Bar**

No claim is made to the word "Bar" apart from the mark as shown.
For Candy.
Claims use since Aug. 1, 1928.

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Ser. No. 273,374. FRANK L. NAPIERALSKI, doing business as Superior Baking Company, Alma, Mich. Filed Oct. 4, 1928.

SUPERIOR
QUE-TEE
MEANS
QUEEN'S TASTE

No claim is made to the exclusive use of the word "Superior" except in the association shown.
For New Bread in Loaves.
Claims use since May 7, 1927.

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Ser. No. 273,420. STERLING MINT CO. INC., New York, N. Y. Filed Oct. 5, 1928.



No claim is made to the exclusive use of the words "New York" apart from the mark shown.
For Candy.
Claims use since January, 1928.



Ser. No. 273,427. JOHN J. WOODS, doing business as Molly Stark Candy Co., Maywood, Ill. Filed Oct. 5, 1928.

**MOLLY STARK**

For Confectionery—Namely, Hard Candies, Cherry and Nut Nougatines, Cream Caramels, Black Walnut Creams, Orange Creams, Nut and Fruit Bonbons, Mallow Dates, Butterscotch Caramels, Snow Balls, Butter Creams, Vanilla Whipped Creams, and Ting-a-Ling, Which are Clusters of Ground Molasses Chips Dipped in Chocolate.
Claims use since about September, 1927.

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Ser. No. 273,788. THE S. R. YANTIS MILLING CO., Fulton, Mo. Filed Oct. 13, 1928.

Elixir

For Wheat Flour.
Claims use since Aug. 28, 1928.

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Ser. No. 273,806. THE DENVER ALFALFA MILLING & PRODUCTS CO., Lamar, Colo. Filed Oct. 15, 1928.




For Alfalfa Meal.
Claims use since Sept. 10, 1928.

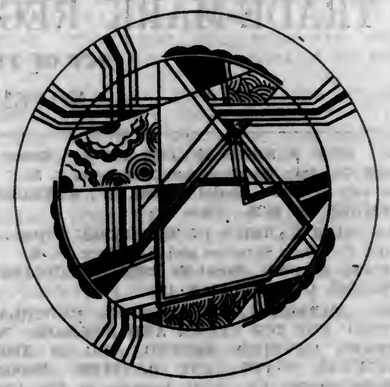
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Ser. No. 273,821. LADY CAROLINE CAKES, INC., Spartanburg, S. C. Filed Oct. 15, 1928.

Lady Caroline

For Cakes.
Claims use since Mar. 23, 1928.

Ser. No. 273,985. SWEETHEART SWEETS CANDY COMPANY, INC., New York, N. Y. Filed Oct. 18, 1928.



For Assorted Chocolates and Other Candies.
Claims use since Oct. 8, 1928.

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Ser. No. 273,988. TAYLOE & CALDWELL, Walkerton, Va. Filed Oct. 18, 1928.

LONDON HILL

For Canned Vegetables.
Claims use since 1926.

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Ser. No. 274,113. A. KESSLER & SONS, Tell City, Ind. Filed Oct. 22, 1928.




No claim is made to the picture of a pretzel and the words "Tell City" apart from the mark shown in the drawing.
For Pretzels.
Claims use since Oct. 6, 1928.

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Ser. No. 274,124. PAPENDICK BAKERY CO., St. Louis, Mo. Filed Oct. 22, 1928.

HAN-DEE

For Bread.
Claims use since Oct. 15, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

NOVEMBER 27, 1928.

249,923. SILK FABRICS IN THE PIECE. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y.
Filed July 21, 1928. Serial No. 269,982. PUBLISHED SEPTEMBER 18, 1928. Class 42.

249,924. SILK FABRICS IN THE PIECE. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y.
Filed July 21, 1928. Serial No. 269,981. PUBLISHED SEPTEMBER 18, 1928. Class 42.

249,925. MARSHMALLOW TOPPING, CHOCOLATE SYRUP FOR ICE CREAM AND SUNDAES; NUT MEATS, CANDIED, SALTED, AND IN THEIR NATURAL STATE; AND CANDIES. PAINCESS CONFECTIONERY CO., doing business as Fox Candy Co., Milwaukee, Wis.
Filed April 26, 1928. Serial No. 265,447. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,926. MEDICINES—NAMELY, MEDICINES FOR THE DISORDERS OF THE STOMACH, KIDNEYS, BOWELS, AND BLOOD. ACME PRODUCTS LIMITED, Winnipeg, Canada, and Detroit, Mich.
Filed April 28, 1928. Serial No. 265,513. PUBLISHED SEPTEMBER 11, 1928. Class 6.

249,927. CERTAIN NAMED PAINT PRODUCTS. GUSTAV RUTH AKTIENGESELLSCHAFT, Wandsbek, Germany.
Filed May 2, 1928. Serial No. 265,791. PUBLISHED SEPTEMBER 11, 1928. Class 16.

249,928. WHEAT FLOUR. THE REA-PATTERSON MILLING COMPANY, Coffeyville, Kans.
Filed April 30, 1928. Serial No. 265,693. PUBLISHED JULY 17, 1928. Class 46.

249,929. CERTAIN NAMED NOTIONS. BARTONS BIAS COMPANY, New York, N. Y.
Filed May 4, 1928. Serial No. 265,879. PUBLISHED SEPTEMBER 11, 1928. Class 40.

249,930. LADIES' TEXTILE-FABRIC UNDERWEAR. BRAFMAN BROS., Brooklyn, N. Y.
Filed May 5, 1928. Serial No. 265,944. PUBLISHED SEPTEMBER 4, 1928. Class 39.

249,931. LADIES' HAND BAGS OF METAL, LEATHER, STRAW, OR TEXTILE MATERIAL OR COMBINATIONS OF THE SAME. SHOECRAFT SHOP INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,991. PUBLISHED SEPTEMBER 11, 1928. Class 3.

249,932. TARTS AND COFFEE RINGS. SAVORY BAKING COMPANY, Newark, N. J.
Filed May 5, 1928. Serial No. 265,986. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,933. INCINERATOR. YARD-BOY INCINERATOR CO., Chicago, Ill.
Filed August 14, 1928. Serial No. 271,014. PUBLISHED SEPTEMBER 18, 1928. Class 34.

249,934. HUMIDORS. JOHN WILLIAM ROGOSKI, Los Angeles, Calif.
Filed August 13, 1928. Serial No. 270,977. PUBLISHED SEPTEMBER 18, 1928. Class 8.

249,935. COTTON PIECE GOODS. J. L. STIFEL & SONS, Wheeling, W. Va.
Filed August 13, 1928. Serial No. 270,944. PUBLISHED SEPTEMBER 18, 1928. Class 42.

249,936. MATCHES. AMTORG TRADING CORPORATION, New York, N. Y.
Filed August 11, 1928. Serial No. 270,870. PUBLISHED SEPTEMBER 18, 1928. Class 9.



249,937. MEDICINE FOR THE TREATMENT OF GONORRHEA, GLEET, STRICTURE, AND PROSTATIC DISEASES. JOHN HEILAND CO., Chicago, Ill.
Filed August 10, 1928. Serial No. 270,845. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,938. MEDICINE FOR THE TREATMENT OF GONORRHEA AND GLEET. JOHN HEILAND CO., Chicago, Ill.
Filed August 10, 1928. Serial No. 270,844. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,939. CANNED SALMON. KADIAK FISHERIES COMPANY, Seattle, Wash.
Filed August 9, 1928. Serial No. 270,796. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,940. CANNED FRUITS. HUNT BROTHERS PACKING COMPANY, San Francisco, Calif.
Filed August 8, 1928. Serial No. 270,770. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,941. SERUM FOR THE TREATMENT OF TUBERCULOSIS. DUANE MEREDITH, Wichita Falls, Tex.
Filed August 8, 1928. Serial No. 270,773. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,942. SYNTHETIC OR CHEMICALLY-PREPARED RESINS. THE RESINOUS PRODUCTS AND CHEMICAL COMPANY, Philadelphia, Pa.
Filed August 8, 1928. Serial No. 270,757. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,943. FRESH CITRUS FRUITS—NAMELY, ORANGES, LEMONS, AND GRAPEFRUIT. RIALTO ORANGE CO., Rialto, Calif.
Filed August 7, 1928. Serial No. 270,722. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,944. PICKLES. EM-IT-PRODUCTS COMPANY, Snyder, Tex.
Filed August 7, 1928. Serial No. 270,695. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,945. REDUCING CREAM. MAUDE H. SPANGLER, doing business as Star Spangler Mfg. Co., Birmingham, Ala.
Filed August 6, 1928. Serial No. 270,656. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,946. [WITHDRAWN.]

249,947. MEDICATED CANDY USED AS A GENTLE CATHARTIC. CHARLES F. AMPT, doing business as The Charles F. Ampt Company, Columbia Township, Hamilton, County, Ohio.
Filed August 3, 1928. Serial No. 270,529. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,948. MEDICINE FOR THE TREATMENT OF PAIN, FEVER, FERMENTATION, LITHEMIC CONDITIONS, RHEUMATISM, NEURALGIAS, GRIPPE, TONSILITIS, DYSMENORRHEA, COLIC, CRAMPS, AND HEADACHE. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,484. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,949. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, ETC. SILVER MOON COMPANY, INC., New Orleans, La.
Filed August 4, 1928. Serial No. 270,613. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,950. MALT SYRUP. MANITOWOC PRODUCTS COMPANY, Manitowoc, Wis.
Filed July 10, 1928. Serial No. 269,360. PUBLISHED SEPTEMBER 4, 1928. Class 46.



249,951. DICE, DICE SHAKERS, DOMINOES, POKER CHIPS, SPINNING TOPS, HOLLOW BALLS, SCORE PADS, AND PLAYING-CARD CASES. GUSTAVE E. KOPPE, doing business as The Elkloid Company, Providence, R. I.
Filed July 10, 1928. Serial No. 269,352. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,952. FISHING LINES. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass.
Filed July 9, 1928. Serial No. 269,339. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,953. FISHING LINES. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass.
Filed July 9, 1928. Serial No. 269,338. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,954. FISHING LINES. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass.
Filed July 9, 1928. Serial No. 269,337. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,955. GOLF CLUBS. UNITED STATES WHIP CO., also doing business as U. S. Golf Manufacturing Co., Westfield, Mass.
Filed July 9, 1928. Serial No. 269,336. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,956. GOLF CLUBS. UNITED STATES WHIP CO., also doing business as U. S. Golf Manufacturing Co., Westfield, Mass.
Filed July 9, 1928. Serial No. 269,335. PUBLISHED SEPTEMBER 11, 1928. Class 22.

249,957. CHOCOLATE MALT SYRUP. WILLIAM S. SCULL COMPANY, Camden, N. J.
Filed July 9, 1928. Serial No. 269,322. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,958. CANNED EVAPORATED MILK. PAGE MILK CO., Merrill, Wis.
Filed July 9, 1928. Serial No. 269,313. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,959. EXTRA HIGH PATENT WINTER-WHEAT FLOUR. GRAHAM MILL & ELEVATOR CO., Graham, Tex.
Filed July 9, 1928. Serial No. 269,288. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,960. CLEANER AND POLISH FOR FURNITURE, FLOORS, LINOLEUM, PIANOS, AND AUTOMOBILES. BEATS-ALL CO., Chicago, Ill.
Filed July 9, 1928. Serial No. 269,275. PUBLISHED SEPTEMBER 11, 1928. Class 16.

249,961. STOCK AND POULTRY FEEDS. PHILIP R. PARK, Naval Station, San Pedro, Calif.
Filed July 7, 1928. Serial No. 269,251. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,962. STOCK AND POULTRY FEEDS. PHILIP R. PARK, Naval Station, San Pedro, Calif.
Filed July 7, 1928. Serial No. 269,250. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,963. LUBRICATING OILS, LUBRICATING GREASES, AND LUBRICATING COMPOUNDS. AMERICAN OIL CORPORATION, Jackson, Mich.
Filed July 7, 1928. Serial No. 269,217. PUBLISHED SEPTEMBER 18, 1928. Class 15.

249,964. FOOD COMPOUND OF RICE, TAPIOCA, AND ARROWROOT. THE ALLEY COMPANY, New Bedford, Mass.
Filed July 7, 1928. Serial No. 269,216. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,965. LIGHT VEHICLES—NAMELY, BABY CARRIAGES GENERICALLY AND CHILDREN'S CARRIAGES GENERICALLY. F. A. WHITNEY CARRIAGE COMPANY, Leominster, Mass.
Filed July 6, 1928. Serial No. 269,214. PUBLISHED SEPTEMBER 18, 1928. Class 19.

249,966. CAKES. EDWIN MAYER, doing business as Liberty Cake Company, Philadelphia, Pa.
Filed July 6, 1928. Serial No. 269,193. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,967. ICE CREAM, ICES, SHERBETS, PIE, AND ICE-CREAM PIE. THE RUBYETTE CO., San Francisco, Calif.
Filed July 5, 1928. Serial No. 269,154. PUBLISHED SEPTEMBER 4, 1928. Class 46.

249,968. ADHESIVE ISINGLASS. CAPE ANN ISINGLASS COMPANY, Boston, Mass.
Filed July 5, 1928. Serial No. 269,084. PUBLISHED SEPTEMBER 11, 1928. Class 5.

249,969. CORN MEAL, DAIRY RATIONS, POULTRY FEED, AND STOCK FEED. LA FAYETTE ROLLER MILLS, La Fayette, Ga.
Filed July 3, 1928. Serial No. 269,029. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,970. RAYON YARN. THE VISCOSE COMPANY, Marcus Hook, Pa.
Filed July 21, 1928. Serial No. 270,000. PUBLISHED SEPTEMBER 11, 1928. Class 43.

249,971. LIPOIDAL EXTRACT FOR THE TREATMENT OF AMENORRHEA AND SCANTY MENSTRUATION. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed July 23, 1928. Serial No. 270,044. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,972. SALVE FOR THE TREATMENT OF ITCH, PILES, BURNS, CUTS, AND ECZEMA. G. N. PAPPAS, doing business as Sterolic Salve Company, Atlanta, Ga.
Filed July 25, 1928. Serial No. 270,143. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,973. CANDY. IMPERIAL CANDY CO., Seattle, Wash.
Filed July 26, 1928. Serial No. 270,186. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,974. POLITICAL NOVELTY OR CAMPAIGN HANDKERCHIEF. EMILE H. KLUGE, West New York, N. J.
Filed July 26, 1928. Serial No. 270,190. PUBLISHED SEPTEMBER 18, 1928. Class 42.

249,975. READY-MIXED ASPHALT PAINT. RED SPOT PAINT & VARNISH CO., INC., Evansville, Ind.
Filed July 26, 1928. Serial No. 270,202. PUBLISHED SEPTEMBER 11, 1928. Class 16.

249,976. A SIZING COMPOUND USED BY COTTON MILLS AS A COTTON SOFTENER. SEYDEL-WOOLLEY COMPANY, Atlanta, Ga.
Filed July 26, 1928. Serial No. 270,210. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,977. CANDY. M. J. HOLLOWAY & CO., Chicago, Ill.
Filed July 28, 1928. Serial No. 270,294. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,978. CANDY. M. J. HOLLOWAY & CO., Chicago, Ill.
Filed July 28, 1928. Serial No. 270,295. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,979. SILK FABRICS IN THE PIECE. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y.
Filed July 28, 1928. Serial No. 270,302. PUBLISHED SEPTEMBER 18, 1928. Class 42.

249,980. LUBRICATING OIL. SUN OIL COMPANY, Philadelphia, Pa.
Filed July 28, 1928. Serial No. 270,306. PUBLISHED SEPTEMBER 18, 1928. Class 15.

249,981. GASOLINE. SKELLY OIL COMPANY, Tulsa, Okla.
Filed July 30, 1928. Serial No. 270,355. PUBLISHED SEPTEMBER 18, 1928. Class 15.

249,982. NETTED WOVEN CORD LAUNDRY BAGS OF COTTON. Brighton Mills, Allwood, N. J., Shannon, Ga., and Passaic, N. J.
Filed July 31, 1928. Serial No. 270,365. PUBLISHED SEPTEMBER 18, 1928. Class 2.

249,983. CHEESE OF SWISS ORIGIN. ALFRED GEBERT, Thun, Switzerland.
Filed July 31, 1928. Serial No. 270,374. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,984. LUBRICATING OILS. MID-WEST OIL COMPANY, Kansas City, Kans.
Filed July 31, 1928. Serial No. 270,385. PUBLISHED SEPTEMBER 18, 1928. Class 15.

249,985. CONNECTION CLIPS. MUELLER ELECTRIC COMPANY, Cleveland, Ohio.
Filed April 24, 1928. Serial No. 265,340. PUBLISHED SEPTEMBER 4, 1928. Class 21.

249,986. MEN'S AND WOMEN'S UNIFORMS AND CAPS. PUBLIX THEATRES CORPORATION, New York, N. Y.
Filed April 20, 1928. Serial No. 265,164. PUBLISHED AUGUST 28, 1928. Class 39.

249,987. PERMANENT-WAVING MACHINES AND ACCESSORIES AND EQUIPMENT THEREOF. THE REALISTIC PERMANENT WAVE MACHINE CO., Cleveland, Ohio.
Filed April 13, 1928. Serial No. 264,777. PUBLISHED SEPTEMBER 11, 1928. Class 44.

249,988. STICK CANDY. DUNCAN MAY CANDY CO., INC., Montgomery, Ala.
Filed April 13, 1928. Serial No. 264,753. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,989. MEN'S, WOMEN'S, AND CHILDREN'S COATS AND HATS. LUCILE STAFF, INC., New York, N. Y.
Filed March 29, 1928. Serial No. 263,957. PUBLISHED SEPTEMBER 11, 1928. Class 39.

249,990. PERFUMES, TOILET POWDERS, AND TOILET WATERS. BAROUH HERMANOS, Habana, Cuba.
Filed March 29, 1928. Serial No. 263,914. PUBLISHED SEPTEMBER 18, 1928. Class 6.

249,991. INDESTRUCTIBLE PEARL NECKLACES AND STRINGS OF PEARLS, AND NOVELTY JEWELRY, WHICH CONSISTS OF SETS OF MATCHED EARRINGS, NECKLACES, AND BAR PINS, AND THE LIKE. LEO BABCHIN, New York, N. Y.
Filed March 27, 1928. Serial No. 263,810. PUBLISHED SEPTEMBER 18, 1928. Class 28.

249,992. TOILET FIXTURES, VALVES, AND PLUMBING SUPPLIES COMPRISING METAL TOILET FLUSH VALVES, HANDLES, FLUSH CONNECTIONS, SPUD COUPLINGS, WALL FLANGES, SPUD REDUCERS, ELBOW FLUSH CONNECTIONS, VALVE BUMPERS, AND OPEN-SEAT BUMPERS. REPCAL BRASS MFG. CO., Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,513. PUBLISHED SEPTEMBER 18, 1928. Class 13.

249,993. CEREAL BREAKFAST FOOD. KELLOGG COMPANY, Battle Creek, Mich.
Filed March 17, 1928. Serial No. 263,321. PUBLISHED SEPTEMBER 11, 1928. Class 46.

249,994. COMBS EXCEPT COMBS MADE OF PRECIOUS METAL. Dr. HEINR. TRAUN & SÖHNE, VORMALS HARBURGER GUMMI-KAMM-COMPAGNIE, Hamburg, Germany.
Filed March 10, 1928. Serial No. 262,984. PUBLISHED SEPTEMBER 4, 1928. Class 40.

249,995. FRESH FISH FILLETS. HARRY I. BEDNER, doing business as Quaker Fresh Fish Fillet Co., Philadelphia, Pa.
Filed March 10, 1928. Serial No. 262,948. PUBLISHED AUGUST 7, 1928. Class 46.

249,996. CERTAIN NAMED PAINT PRODUCTS. EVERLASTING PAINT & SALES COMPANY, Los Angeles, Calif.
Filed March 5, 1928. Serial No. 262,601. PUBLISHED SEPTEMBER 11, 1928. Class 16.

249,997. INCANDESCENT LAMPS. FEDERAL DISTRIBUTING COMPANY, Newark, N. J.
Filed February 16, 1928. Serial No. 261,748. PUBLISHED SEPTEMBER 18, 1928. Class 21.

249,998. PACKAGES OF WASHED DRIED FIGS. FEDERAL DATE AND FIG COMPANY, Detroit, Mich.
Filed February 6, 1928. Serial No. 261,299. PUBLISHED SEPTEMBER 18, 1928. Class 46.

249,999. DRIED FRUITS. SUNRISE PACKING COMPANY, Fresno, Calif.
Filed January 30, 1928. Serial No. 260,922. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,000. CANNED VEGETABLES—NAMELY, CARROTS, ONIONS; CANNED SAUERKRAUT JUICE, DILL PICKLES, CANNED FRUIT FOR SALAD, SHELLED WALNUT MEATS, SHELLED BLACK-WALNUT MEATS, SHELLED PECAN MEATS, SHELLED ALMOND MEATS, CREME MAYONNAISE DRESSING, POP CORN IN ITS NATURAL STATE, DRIED CODFISH, PASTRY CAKE FLOUR, CANNED SOUPS — NAMELY, CELERY, GREEN PEA, CONSOMMÉ, BEEF, MULLIGATAWNEY, MOCK TURTLE, OXTAIL, AND CHICKEN; CANNED PRUNES, SUGAR-STUFFED DATES, AND DRIED WASHED SMYRNA FIGS. WESTERN GROCER COMPANY, Marshalltown, Iowa.
Filed January 28, 1928. Serial No. 260,863. PUBLISHED September 4, 1928. Class 46.

250,001. FRESH FRUITS, PARTICULARLY APPLES AND PEACHES. HOOSIER APPLE AND PEACH GROWERS, INC., Indianapolis, Ind.
Filed January 28, 1928. Serial No. 260,826. PUBLISHED September 18, 1928. Class 46.

250,002. CANNED FISH. GRIFFITH-DURNEY CO., San Francisco, Calif.
Filed January 18, 1928. Serial No. 260,269. PUBLISHED JULY 17, 1928. Class 46.

250,003. TOOTH POWDERS, TOOTH PASTES, TOOTH WASHES, AND OTHER DENTIFRICES. KOTOBUKIYA COMPANY LIMITED, Osaka-Shi, Japan.
Filed January 16, 1928. Serial No. 260,180. PUBLISHED JULY 17, 1928. Class 6.

250,004. TOILET ATOMIZERS. ANDRÉ PERUGIA, Paris, France.
Filed January 14, 1928. Serial No. 260,133. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,005. ARTIFICIAL BAIT. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed January 14, 1928. Serial No. 260,108. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,006. ARTIFICIAL BAIT. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed January 14, 1928. Serial No. 260,107. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,007. FISHING-REEL PARTS. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio.
Filed January 14, 1928. Serial No. 260,106. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,008. HAIRDRESSING PREPARATION. PHILIP MAROCHINI, doing business as Marochini Chemical Company, Chicago, Ill.
Filed July 2, 1928. Serial No. 268,987. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,009. WEDDING RINGS, RING MOUNTINGS, AND DIAMOND RINGS. BOLOTIN & SHEININ, Chicago, Ill.
Filed July 2, 1928. Serial No. 268,962. PUBLISHED SEPTEMBER 18, 1928. Class 28.

250,010. WELDING RODS. THE OHIO BRASS COMPANY, Mansfield, Ohio.
Filed June 30, 1928. Serial No. 268,934. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,011. ALARM CLOCKS. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed June 30, 1928. Serial No. 268,924. PUBLISHED SEPTEMBER 18, 1928. Class 27.

250,012. SKIN CREAM. GODEFROY MANUFACTURING COMPANY, St. Louis, Mo.
Filed June 30, 1928. Serial No. 268,922. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,013. LUBRICATING OILS AND GREASES. AIR-WAY MOTOR OIL COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,900. PUBLISHED SEPTEMBER 18, 1928. Class 15.



250,014. PAINT FOR IGNITION SYSTEMS AND OTHER ELECTRICAL WORK WHERE WATERPROOFING IS DESIRED. ALLEN H. SWEET, New Orleans, La.
Filed June 29, 1928. Serial No. 268,892. PUBLISHED SEPTEMBER 11, 1928. Class 16.

250,015. DENTAL APPLIANCE ASSEMBLIES SOLD AS UNITS. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y.
Filed June 29, 1928. Serial No. 268,886. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,016. DENTAL APPLIANCE ASSEMBLIES SOLD AS UNITS. RITTER DENTAL MANUFACTURING COMPANY, INC., Rochester, N. Y.
Filed June 29, 1928. Serial No. 268,885. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,017. WATCHES, WATCH MOVEMENTS, WATCH-CASES, AND PARTS THEREOF. FEDERAL MAIL ORDER CORPORATION, New York, N. Y.
Filed June 29, 1928. Serial No. 268,859. PUBLISHED SEPTEMBER 18, 1928. Class 27.

250,018. MOTOR-LUBRICATING OILS. DEARBORN CHEMICAL COMPANY, Chicago, Ill.
Filed June 29, 1928. Serial No. 268,850. PUBLISHED SEPTEMBER 18, 1928. Class 15.

250,019. LADIES' DRESS COATS. SACKRIN, EISENBERG & PERLSTEIN, New York, N. Y.
Filed June 28, 1928. Serial No. 268,818. PUBLISHED SEPTEMBER 4, 1928. Class 39.

250,020. TOBACCO CONTAINERS, TOBACCO-PIPE HOLDERS, AND COMBINATION TOBACCO CONTAINERS AND TOBACCO-PIPE HOLDERS. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Filed June 28, 1928. Serial No. 268,776. PUBLISHED SEPTEMBER 18, 1928. Class 8.

250,021. MEN'S AND BOYS' WORK SHIRTS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed June 8, 1928. Serial No. 267,723. PUBLISHED AUGUST 21, 1928. Class 39.

250,022. NUTS—NAMELY, SALTED AND ROASTED CASHEWS IN WHOLES, HALVES, AND CHIPS, AND ALSO SHELLED WALNUTS AS WHOLES, EXTRA HALVES, AND MEATS. A. NONES & CO., New York, N. Y.
Filed June 8, 1928. Serial No. 267,716. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,023. HORSE FEEDS, POULTRY FEEDS, MASH FEEDS, DAIRY FEEDS, HOG FEEDS, AND STOCK FEEDS. THE CORNO MILLS COMPANY, East St. Louis, Ill.
Filed June 7, 1928. Serial No. 267,633. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,024. READY-MIXED PAINTS, VARNISHES, AND LACQUERS. MICHAEL MCNAMARA VARNISH WORKS, Detroit, Mich.
Filed June 6, 1928. Serial No. 267,598. PUBLISHED SEPTEMBER 11, 1928. Class 16.

250,025. LADIES' HATS. ROSEN-BRANDT, INC., New York, N. Y.
Filed June 5, 1928. Serial No. 267,512. PUBLISHED AUGUST 7, 1928. Class 39.

250,026. BRONZE INGOTS, CASTINGS, PRESSED PARTS, SHEETS, WIRE, AND RODS. THE AMERICAN BRASS COMPANY, Waterbury, Conn.
Filed June 5, 1928. Serial No. 267,476. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,027. BRONZE INGOTS, CASTINGS, PRESSED PARTS, SHEETS, WIRE, AND RODS. THE AMERICAN BRASS COMPANY, Waterbury, Conn.
Filed June 5, 1928. Serial No. 267,475. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,028. TOY RUBBER STAMPS, REPRESENTING PARTICULARLY ANIMALS, BIRDS, ETC. THE SUPERIOR TYPE COMPANY, Chicago, Ill.
Filed June 4, 1928. Serial No. 267,469. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,029. LIMITING DEVICE TO WORK IN CONJUNCTION WITH A REGULATOR TO LIMIT THE PRESSURE AND TEMPERATURE IN A VAPOR HEATING SYSTEM. MINNEAPOLIS-HONEYWELL REGULATOR COMPANY, Wabash, Ind., and Minneapolis, Minn.
Filed June 2, 1928. Serial No. 267,375. PUBLISHED SEPTEMBER 18, 1928. Class 34.

250,030. COMPLEXION POWDER, CLEANSING CREME, TISSUE CREME, ASTRINGENT LOTION, ETC. PURITAN PHARMACEUTICAL COMPANY, St. Louis, Mo.
Filed May 25, 1928. Serial No. 267,010. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,031. PEANUTS—NAMELY, SALTED PEANUTS. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed May 25, 1928. Serial No. 266,978. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,032. CERTAIN NAMED COATED AND EMBOSSED TABLECLOTHS, NAPKINS, SCARFS, AND SHELVING. MAYFAIR TEXTILE CORPORATION, New York, N. Y.
Filed May 24, 1928. Serial No. 266,942. PUBLISHED SEPTEMBER 18, 1928. Class 20.

250,033. PORK PRODUCTS—NAMELY, SAUSAGE. S. WALTER STAUFFER, doing business as Southern Farms Company, Walkersville, Md.
Filed May 23, 1928. Serial No. 266,894. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,034. NOSE AND THROAT SPRAY. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed May 21, 1928. Serial No. 266,763. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,035. GELATIN DESSERT. POSTUM COMPANY, INCORPORATED, New York, N. Y.
Filed May 16, 1928. Serial No. 266,480. PUBLISHED AUGUST 28, 1928. Class 46.

250,036. CERTAIN NAMED BUTTONS. ART BUTTON NOVELTY M'F'G. CO., INC., New York, N. Y.
Filed May 16, 1928. Serial No. 266,452. PUBLISHED SEPTEMBER 11, 1928. Class 40.

250,037. IRON AND STEEL IN THE SHAPE OF ROLLED OR HAMMERED BARS, WIRE RODS, OR DRAWN WIRE. UDDEHOLMS AKTIEBOLAG, Uddeholm, Sweden.
Filed May 15, 1928. Serial No. 266,445. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,038. IRON AND STEEL IN THE SHAPE OF ROLLED OR HAMMERED BARS, WIRE RODS, OR DRAWN WIRE. UDDEHOLMS AKTIEBOLAG, Uddeholm, Sweden.
Filed May 15, 1928. Serial No. 266,444. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,039. POULTRY TONIC. LITTLE B. BROWN, doing business as The Chic-Tone Company, Angola, Ind.
Filed May 11, 1928. Serial No. 266,239. PUBLISHED AUGUST 7, 1928. Class 6.

250,040. FRUIT PRESERVES IN CANS AND JARS, PIES, COFFEE CAKE, MACAROONS, FRUIT AND NUT CAKE, AND BOX LUNCHES CONTAINING AN ASSORTMENT OF PREPARED FOODS. THE SAVARINS, INC., New York, N. Y.
Filed May 7, 1928. Serial No. 266,049. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,041. RADIOACTIVE CLOTH, RADIOACTIVE TEXTILE FABRIC, AND RADIOACTIVE COMPRESSES. AXEL RUDOLF BLOMBERG, Stockholm, Sweden.
Filed July 17, 1928. Serial No. 269,711. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,042. GOLF CLUBS. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,704. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,043. PARLOR GAMES. J. W. SPEAR & SONS, INC., New York, N. Y.
Filed July 16, 1928. Serial No. 269,695. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,044. CLEANING AND POLISHING PREPARATIONS FOR CELLULOSE-FINISHED MOTOR VEHICLES. WILLIAM R. KNOTT, Rochester, N. Y.
Filed July 16, 1928. Serial No. 269,666. PUBLISHED SEPTEMBER 11, 1928. Class 16.

250,045. MOTOR BOATS. FAIRCHILD AVIATION CORPORATION, New York, N. Y.
Filed July 16, 1928. Serial No. 269,649. PUBLISHED SEPTEMBER 18, 1928. Class 19.

250,046. OLIVE OIL. COTTONE BROS., INC., Brooklyn, N. Y.
Filed July 16, 1928. Serial No. 269,639. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,047. ELECTRIC BAKE OVENS. BAKERS SUPPLY & EQUIPMENT CO., St. Paul, Minn.
Filed June 27, 1928. Serial No. 268,728. PUBLISHED SEPTEMBER 18, 1928. Class 21.

250,048. RADIO ELECTRON TUBES AND ELECTRIC LAMPS. SYLVANIA PRODUCTS COMPANY, Emporium, Pa.
Filed June 26, 1928. Serial No. 268,710. PUBLISHED SEPTEMBER 18, 1928. Class 21.

250,049. BROOCH PINS. EVANS CASE COMPANY, North Attleboro, Mass.
Filed June 26, 1928. Serial No. 268,686. PUBLISHED SEPTEMBER 18, 1928. Class 28.

250,050. ARTICHOKE FLAKES PUT UP IN DRIED FORM. SIMON BITTERMAN, doing business as Jeru Artichoke Products Company, Denver, Colo.
Filed June 26, 1928. Serial No. 268,670. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,051. MALT SYRUP FOR FOOD PURPOSES. W. F. ZIMMERMANN, doing business as Red Wing Supply Co., Red Wing, Minn.
Filed June 25, 1928. Serial No. 268,622. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,052. ELECTRIC CIGAR LIGHTERS. JOSEPH H. COHEN, doing business as The Perfection Motor Products Company, Bridgeport, Conn.
Filed June 25, 1928. Serial No. 268,585. PUBLISHED SEPTEMBER 18, 1928. Class 21.

250,053. BAGGAGE BAGS. ELIZABETH ALLEN MCDONALD, New York, N. Y.
Filed June 19, 1928. Serial No. 268,291. PUBLISHED SEPTEMBER 11, 1928. Class 3.

250,054. TOOTH PASTE. A/S SI-KO, Oslo, Norway.
Filed June 19, 1928. Serial No. 268,260. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,055. GOLF TEES. COLLINGBOURNE MILLS, INC., Elgin, Ill.
Filed June 18, 1928. Serial No. 268,212. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,056. FRESH ORANGES AND GRAPEFRUIT. AMERICAN FRUIT DISTRIBUTORS, INC., Jacksonville, Fla.
Filed June 18, 1928. Serial No. 268,202. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,057. LUBRICATING OILS. TEXAS PACIFIC COAL AND OIL COMPANY, Fort Worth, Tex.
Filed June 16, 1928. Serial No. 268,188. PUBLISHED SEPTEMBER 18, 1928. Class 15.

250,058. HEALING SALVES FOR EXTERNAL APPLICATION. WADE H. MCCREE, doing business as McCree Products Company, Chicago, Ill.
Filed June 14, 1928. Serial No. 268,051. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,059. STRINGED MUSICAL INSTRUMENTS HAVING CHORD-SELECTOR DEVICES FOR MUTING CERTAIN STRINGS AND ALLOWING CERTAIN OTHER STRINGS TO SOUND WHEN PLUCKED. INTERNATIONAL MUSICAL CORPORATION, Hoboken, N. J.
Filed June 14, 1928. Serial No. 268,015. PUBLISHED SEPTEMBER 18, 1928. Class 36.

250,060. FRESH CITRUS FRUITS, FRESH DECIDUOUS FRUITS, FRESH VEGETABLES, FRESH GRAPES, FRESH MELONS. PEPPERS FRUIT COMPANY, Los Angeles, Calif.
Filed June 13, 1928. Serial No. 267,992. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,061. CANNED FISH—NAMELY, FRIED FISH CAKES. PACIFIC TRADING CO. INC., San Francisco, Calif.
Filed June 13, 1928. Serial No. 267,989. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,062. FERTILIZERS. INTERNATIONAL AGRICULTURAL CORPORATION, New York, N. Y.
Filed June 13, 1928. Serial No. 267,960. PUBLISHED SEPTEMBER 18, 1928. Class 10.

250,063. A MEDICINAL PREPARATION FOR VENEREAL AND TROPICAL DISEASES—NAMELY, SYPHILIS, LEISHMANIASIS, KALAAZAR, BILHARZIOSIS, GRANULOMA VENEREUM, SLEEPING SICKNESS, TRYPANOSOMIASIS OF ANIMALS, FILARIASIS, LEPROSY, SPIRILLOSIS, EPIDEMIC ENCEPHALITIS, MULTIPLE SCLEROSIS, AND MALARIA. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York.
Filed June 13, 1928. Serial No. 267,932. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,064. A MEDICINAL PREPARATION FOR TROPICAL DISORDERS AND FEBRILE DISEASES OF THE TEMPERATE ZONES—NAMELY, MALARIA, SLEEPING SICKNESS, BILHARZIASIS, LEPROSY, VENEREAL GRANULOMA, ENCEPHALITIS, AND MULTIPLE SCLEROSIS. CHEMISCHE FABRIK VON HEYDEN, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y., a Corporation of New York.
Filed June 13, 1928. Serial No. 267,931. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,065. CERTAIN NAMED WEARING APPAREL. L. J. & C. D. JAFFEE INC., New York, N. Y.
Filed June 9, 1928. Serial No. 267,772. PUBLISHED AUGUST 28, 1928. Class 39.

250,066. MALT SYRUP. HAAS-LIEBER GROCERY COMPANY, St. Louis, Mo.
Filed June 9, 1928. Serial No. 267,765. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,067. NURSING BOTTLES. FRASER VALVO CORPORATION, Newark, N. J.
Filed July 14, 1928. Serial No. 269,581. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,068. TOY PISTOLS. NATIONAL FIREWORKS, INC., West Hanover, Mass.
Filed July 13, 1928. Serial No. 269,545. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,069. TOY PISTOLS. NATIONAL FIREWORKS, INC., West Hanover, Mass.
Filed July 13, 1928. Serial No. 269,544. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,070. TOY PISTOLS. NATIONAL FIREWORKS, INC., West Hanover, Mass.
Filed July 13, 1928. Serial No. 269,543. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,071. ALLOY METAL MIXTURE OF HIGH WEARING QUALITIES. MUELLER BRASS CO., Port Huron, Mich.
Filed July 13, 1928. Serial No. 269,537. PUBLISHED SEPTEMBER 11, 1928. Class 14.

250,072. PLATE GLASS AND LENSES FOR AUTOMOBILES. FORD MOTOR COMPANY, Fordson, Mich.
Filed July 13, 1928. Serial No. 269,521. PUBLISHED SEPTEMBER 18, 1928. Class 33.

250,073. WALKING PULL TOYS. WALLIE DORR CO. INC., New York, N. Y.
Filed July 11, 1928. Serial No. 269,437. PUBLISHED SEPTEMBER 11, 1928. Class 22.



250,074. WOOLEN GOODS IN THE PIECE. MAX HYMAN & CO., INC., New York, N. Y.
Filed July 11, 1928. Serial No. 269,408. PUBLISHED SEPTEMBER 18, 1928. Class 42.

250,075. MALT SYRUP. NAT MILGRAM, doing business as Malt Products Co., Kansas City, Mo.
Filed July 11, 1928. Serial No. 269,417. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,076. POWDER PUFFS. HOUSE OF TRE-JUR, INC., New York, N. Y.
Filed July 11, 1928. Serial No. 269,407. PUBLISHED SEPTEMBER 11, 1928. Class 29.

250,077. FISHING LINES. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass.
Filed July 10, 1928. Serial No. 269,378. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,078. FISHING LINES. UNITED STATES WHIP CO., doing business as U. S. Line Company, Westfield, Mass.
Filed July 10, 1928. Serial No. 269,377. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,079. VITAMINOUS DIETARY SUPPLEMENT. E. R. SQUIBB & SONS, New York, N. Y.
Filed July 10, 1928. Serial No. 269,372. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,080. MOLASSES. PENICK & FORD, LTD., New York, N. Y.
Filed July 10, 1928. Serial No. 269,364. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,081. FRESH CITRUS AND DECIDUOUS FRUITS, FRESH VEGETABLES, ETC. ROBBINS RUSSEL, Thermal, Calif.
Filed November 17, 1926. Serial No. 240,216. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,082. FRESH CITRUS AND DECIDUOUS FRUITS, FRESH VEGETABLES, ETC. ROBBINS RUSSEL, Thermal, Calif.
Filed November 17, 1926. Serial No. 240,217. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,083. BRIEF CASES, WALLETS, PURSES, PORTFOLIOS, MUSIC CASES, CATALOG CASES, NAME TAGS, ENVELOPE POCKETS, SCHOOL BAGS, AND SALESMEN'S CASES FOR CONTAINING AND CARRYING SILK SAMPLES. STEIN BROS. MFG. CO., INC., Chicago, Ill.
Filed January 7, 1927. Serial No. 242,512. PUBLISHED SEPTEMBER 11, 1928. Class 3.

250,084. SURGICAL INSTRUMENTS. S. DONIGER & CO. INC., New York, N. Y.
Filed January 8, 1927. Serial No. 242,526. PUBLISHED SEPTEMBER 11, 1928. Class 44.

250,085. CREAM ROUGE FOR THE LIPS AND LIP STICKS. JOSEPH LESQUENDIEU, Paris, France, assignor to Lesquendieu, Incorporated, New York, N. Y., a Corporation of New York.
Filed February 5, 1927. Serial No. 243,865. PUBLISHED JULY 19, 1927. Class 6.

250,086. DRIED CURRANTS AND MINCEMEAT. THE W. H. MARVIN COMPANY, Urbana, Ohio.
Filed March 28, 1927. Serial No. 246,490. PUBLISHED MAY 31, 1927. Class 46.

250,087. WASHBOARDS. NATIONAL WASHBOARD COMPANY, Chicago, Ill., and Saginaw, Mich.
Filed April 22, 1927. Serial No. 247,865. PUBLISHED JUNE 14, 1927. Class 24.

250,088. SERIES OF CARTOONS. THE TRIBUNE COMPANY, Chicago, Ill.
Filed May 25, 1927. Serial No. 249,553. PUBLISHED JULY 19, 1927. Class 38.

250,089. OINTMENT FOR RHEUMATISM. MOURAT MOURTAOGLOU, Weirton, W. Va.
Filed June 22, 1927. Serial No. 250,935. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,090. FRESH, STUFFED, AND CANDIED DATES AND TOASTED AND SALTED NUTS. FIORITA NUT COMPANY, St. Louis, Mo.
Filed June 30, 1927. Serial No. 251,328. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,091. WHEAT FLOUR, BREAKFAST CEREAL, PANCAKE FLOUR. DOUD MILLING COMPANY, Manning, Iowa.
Filed July 5, 1927. Serial No. 251,492. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,092. GAME BALL HOLDERS. JUDD SPECIALTIES INC., Boston, Mass.
Filed July 5, 1927. Serial No. 251,505. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,093. ELECTRIC CLOCKS AND PARTS THEREOF AND WATCHMEN'S TIME-INDICATING CLOCKS FOR WATCHMEN'S CONTROL INSTALLATIONS. SIEMENS & HALSKE AKTIENGESELLSCHAFT, Berlin-Siemensstadt, Germany.
Filed August 25, 1927. Serial No. 253,960. PUBLISHED SEPTEMBER 18, 1928. Class 27.

250,094. FRESH GRAPES. PRESTON MORRIS, Escalon, Calif., assignor to Salute Brand Association, San Joaquin and Stanislaus Counties, Calif. (Unincorporated).
Filed October 8, 1927. Serial No. 255,818. PUBLISHED AUGUST 7, 1928. Class 46.

250,095. MULTIPLE ELECTRIC CONNECTING DEVICES. COLT'S PATENT FIRE ARMS MANUFACTURING CO., Hartford, Conn.
Filed October 26, 1927. Serial No. 256,604. PUBLISHED SEPTEMBER 18, 1928. Class 21.

250,096. VOILE IN THE PIECE OF COTTON, SILK, OR WOOL. MANVILLE JENCKES COMPANY, Pawtucket, R. I.
Filed November 8, 1927. Serial No. 257,244. PUBLISHED SEPTEMBER 18, 1928. Class 42.

250,097. CANNED TUNA FISH, BUTTER, COFFEE, CANNED CLAMS, SARDINES, CANNED LOBSTERS, CANNED SHRIMP, FOOD-FLAVORING EXTRACTS, ROLLED OATS, CORN FLAKES, CANNED PRUNES, MINCEMEAT, OLIVES, CATSUP, VINEGAR, SUGAR, RICE, HONEY, JELLY, FRUIT PRESERVES, MARMALADE, CONSERVE, CANNED FIGS, CANNED PIMENTOS, SANDWICH FILLER COMPOSED OF PICKLES, MAYONNAISE DRESSING AND PIMIENTOS, MAYONNAISE, THOUSAND ISLAND DRESSING, PREPARED MUSTARD, SWEET RELISH, PICKLES, PEANUT BUTTER, CHEESE, AND SALAD MUSTARD. THE MCCLINTOCK-TRUNKEY CO., Spokane, Wash.
Filed November 16, 1927. Serial No. 257,632. PUBLISHED SEPEMBER 4, 1928. Class 46.

250,098. MALT EXTRACTS. FOREST HILLS COMPANY, doing business as Old Colony Brewing Co., Boston, Mass.
Filed November 21, 1927. Serial No. 257,866. PUBLISHED JANUARY 17, 1928. Class 46.

250,099. MEDICINE FOR DYSPEPSIA. DISPEPCURA MEDICINE COMPANY, Nuevo Laredo, Tamaulipas, Mex.
Filed December 12, 1927. Serial No. 258,799. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,100. FROCKS AND DRESSES FOR USE OF MISSES. HARMONY DRESS CO., INC., New York, N. Y.
Filed December 12, 1927. Serial No. 258,812. PUBLISHED JULY 10, 1928. Class 39.

250,101. COOKING COMPOUNDS COMPOSED OF COTTONSEED OIL, OLEOSTEARINE, AND BEEF FATS; SALAD DRESSING, AND PREPARED MUSTARD. CREAM DOVE MFG., INC., Binghamton, N. Y.
Filed December 17, 1927. Serial No. 259,052. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,102. CANNED FRUITS—NAMELY, APRICOTS, CHERRIES, GRAPES, PEACHES, PEARS, PLUMS, PINEAPPLE, FRUIT SALAD; PREPARED PRUNES IN SYRUP, AND TOMATO PURÉE. RICHMOND-CHASE COMPANY, San Jose, Calif.
Filed December 17, 1927. Serial No. 259,080. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,103. ELASTIC BANDS FOR WOMEN'S AND CHILDREN'S GARMENTS. ROSENAU BROS., INC., Philadelphia, Pa.
Filed December 20, 1927. Serial No. 259,184. PUBLISHED SEPTEMBER 4, 1928. Class 40.

250,104. MALT SYRUP. BLUE RIBBON PRODUCTS COMPANY, Baltimore, Md., assignor to Gebauer & Kimpel, a Firm composed of Edward H. Gebauer and Edward A. Kimpel, Baltimore, Md.
Filed January 5, 1928. Serial No. 259,710. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,105. EVAPORATED MILK. THE PANGO MILK CHOCOLATE CO., Toledo, Ohio.
Filed January 7, 1928. Serial No. 259,819. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,106. MAYONNAISE SALAD DRESSING, GELATINE, GELATINE DESSERTS, YEAST, CUSTARD POWDER, AND DESSERT POWDER. ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y.
Filed August 4, 1925. Serial No. 218,375. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,107. LINSEED MEAL. LINSEED MEAL EDUCATIONAL COMMITTEE, Milwaukee, Wis.
Filed October 6, 1928. Serial No. 273,483. Class 46.

250,108. SILK FABRICS IN THE PIECE. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y..
Filed July 21, 1928. Serial No. 269,980. PUBLISHED SEPTEMBER 18, 1928. Class 42.

250,109. TOY OR GAME COMPRISING A SET OF CHARTS FROM WHICH VARIOUS CALCULATIONS AND INFORMATION CAN BE EVOLVED. KNAPP ELECTRIC CORPORATION, Port Chester, N. Y.
Filed July 21, 1928. Serial No. 269,962. PUBLISHED SEPTEMBER 11, 1928. Class 22.

250,110. PREPARATION FOR DESTROYING RODENTS. CALIFORNIA REX SPRAY CO., Benicia, Calif.
Filed July 21, 1928. Serial No. 269,941. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,111. GASOLINE. GENERAL PETROLEUM CORPORATION OF CALIFORNIA, San Francisco, Calif.
Filed July 20, 1928. Serial No. 269,895. PUBLISHED SEPTEMBER 18, 1928. Class 15.

250,112. BEADED BAGS. JAY THORPE, INC., New York, N. Y.
Filed July 18, 1928. Serial No. 269,788. PUBLISHED SEPTEMBER 11, 1928. Class 3.

250,113. SEPARABLE FASTENERS OF THE SLIDER-CONTROLLED TYPE. HOOKLESS FASTENER COMPANY, Meadville, Pa.
Filed July 18, 1928. Serial No. 269,783. PUBLISHED SEPTEMBER 18, 1928. Class 13.

250,114. REFRIGERATORS AND REFRIGERATING APPARATUS. KRISTOL-KOLD COMPANY, Detroit, Mich.
Filed July 18, 1928. Serial No. 269,770. PUBLISHED SEPTEMBER 18, 1928. Class 31.

250,115. FRESH CARROTS, LETTUCE, APPLES, CANTALOUPES, BEETS, CABBAGE, SPINACH, TOMATOES, AND ONIONS. ATLANTIC COMMISSION CO., INC., New York, N. Y.
Filed June 6, 1928. Serial No. 267,526. PUBLISHED AUGUST 21, 1928. Class 46.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

250,116. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) BOYLE LEATHER GOODS CO. INC., New York, N. Y. Filed Oct. 19, 1927. Serial No. 256,279.

BOYLE

For Traveling Bags, Hand Bags, Portfolios, Suitcases, Hatboxes Equipped with Handles for Use as Traveling Bags; Trunks; Messenger Bags—to wit, Bags with Handles and Straps for Containing Paper and Small Parcels; Money Bags—to wit, Leather Bags Equipped with Straps for the Transportation of Valuables by Hand; Tool Bags—to wit, Heavy Bags of Leather, Canvas, or Other Strong Material, Equipped with Straps and Handles, For Enclosing Tools, for Hand Transportation; Toilet Roll (Leather Roll Case Fitted with Toilet Articles), and Brief Cases, All of Leather.
Claims use since Aug. 17, 1927.

250,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN ANSEHL, doing business as Benjamin Leland & Company, St. Louis, Mo., assignor to Benjamin Leland & Company, St. Louis, Mo., a Corporation of Missouri. Filed May 16, 1927. Serial No. 249,033.

Lines-out

For Skin Cream.
Claims use since Apr. 15, 1926.



250,118. (CLASS 10. FERTILIZERS.) BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Sept. 27, 1928. Serial No. 273,092.

BAUGH'S ADVANCED GROWERS SPECIAL

For Fertilizer.
Claims use since about 1914.

250,119. (CLASS 10. FERTILIZERS.) BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Sept. 27, 1928. Serial No. 273,091.

BAUGH'S YUCATAN TOBACCO GUANO

For Fertilizer.
Claims use since about 1918.

250,120. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUPERIOR PRODUCTS COMPANY, Dallas, Tex. Filed Aug. 21, 1928. Serial No. 271,364.

SUPERIOR CEDAR-POLISH

For Preparation for Cleaning and Polishing Furniture, Floors, Automobiles, Woodwork, and Pianos.
Claims use since Apr. 26, 1922.

250,121. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MURRAY RADIATOR CORPORATION, Brooklyn, N. Y. Filed Aug. 4, 1928. Serial No. 270,600.

murray radiator

For Air Heating and Cooling Radiators.
Claims use since Nov. 6, 1924.

250,122. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHESTER I. LEEPER, doing business as The Leepers Great Indian Medicine Co., Sioux City, Iowa. Filed July 30, 1928. Serial No. 270,339.

LEEPERS

For Medicinal Preparations for Treating Rheumatism, Heart Trouble, Blood Diseases, Pimples, Boils, Salt Rheum, Eczema, Kidney Trouble, Stomach Trouble, Nerve Trouble, Gas on Stomach, Dropsy, Female Weakness, Gastritis, Nerve Trouble, Catarrh, Ulcers, Tumors, and Sores.
Claims use since 1913.

250,123. (CLASS 37. PAPER AND STATIONERY.) BERMINGHAM & PROSSER COMPANY, Chicago, Ill. Filed June 18, 1928. Serial No. 268,205.

TRUE SLANT

For Writing Paper.
Claims use since Jan. 1, 1927.

250,124. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE AMERICAN COACH & BODY CO., Cleveland, Ohio. Filed June 5, 1928. Serial No. 267,477.

AMERICAN

For Vehicle Bodies and Tops.
Claims use since about January, 1922.

250,125. (CLASS 10. FERTILIZERS.) BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Oct. 4, 1928. Serial No. 273,354.

BAUGH'S COMPLETE ANIMAL BASE FERTILIZER

For Fertilizer.
Claims use since about 1910.

250,126. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MID-WEST INCINERATOR CORPORATION, Chicago, Ill. Filed Sept. 26, 1928. Serial No. 272,997.

"Domestik"

For Garbage Incinerators.
Claims use since May 16, 1927.

250,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAIRY MADE ICE CREAM COMPANY, Paterson, N. J., assignor to Dairy Made Ice Cream Company, Inc., Paterson, N. J., a Corporation of Delaware. Filed Apr. 9, 1928. Serial No. 264,567.

DAIRY MADE ICE CREAM

For Ice Cream.
Claims use since Dec. 31, 1915.

250,128. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE C. G. SPRING AND BUMPER COMPANY, Detroit, Mich. Filed Sept. 29, 1926. Serial No. 237,895.

TWIN-GARD

For Automobile Bumpers.
Claims use since about Sept. 15, 1926.

250,129. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE C. G. SPRING AND BUMPER COMPANY, Detroit, Mich. Filed July 31, 1926. Serial No. 235,377.

TIRE-GARD

For Automobile Bumpers.
Claims use since about July 20, 1926.

250,130. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN SALM, doing business as Salm Manufacturing Company, Torrance, Calif. Filed Dec. 21, 1926. Serial No. 241,793.

Salm

For Manicuring Sets.
Claims use since Nov. 30, 1926.

250,131. (CLASS 39. CLOTHING.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed Mar. 16, 1927. Serial No. 245,845.

SPLASH-GUARD

For Stocking Protectors.
Claims use since Feb. 18, 1927.

250,132. (CLASS 32. FURNITURE AND UPHOLSTERY.) B. AND J. JACOBS COMPANY, Cincinnati, Ohio. Filed Apr. 18, 1927. Serial No. 247,617.

B. & J. Jacobs Co.
Superior
RADIATOR
SHIELDS & CABINETS

For Radiator Shields and Cabinets.
Claims use since Apr. 12, 1927.

250,133. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROMA MACARONI COMPANY, San Francisco, Calif. Filed Mar. 20, 1928. Serial No. 263,519.

ROMA

For Alimentary Paste—Namely, Macaroni and Egg Noodles.
Claims use since September, 1890.

250,134. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SUMTER PACKING COMPANY, INC., Sumter, S. C. Filed Mar. 29, 1928. Serial No. 263,981.

MIAMI

For Canned Grapefruit.
Claims use since Jan. 7, 1927.

250,135. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRYE & COMPANY, Seattle, Wash. Filed May 7, 1928. Serial No. 266,025.

FRYE'S SEATTLE
DELICIOUS BRAND
LETTUCE

For Fresh Garden Lettuce.
Claims use since July 1, 1927.



250,136. (CLASS 39. CLOTHING.) THE BLOCH COMPANY, Cleveland, Ohio. Filed Mar. 29, 1928. Serial No. 263,920.

Barrington

For Men's Suits.
Claims use since on or about Sept. 14, 1927.

250,137. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MID-CONTINENT LACQUER MFG. CO., Kansas City, Mo. Filed Feb. 23, 1928. Serial No. 262,110.

Slo-Dri-Lac

For Finishing Lacquer.
Claims use since Jan. 1, 1927.

250,138. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE UNIVIS LENS COMPANY, Dayton, Ohio. Filed Jan. 26, 1928. Serial No. 260,703.

UNIVERSAL VISIBILITY

For Ophthalmic Lenses.
Claims use since Jan. 20, 1927.

250,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE OHIO BUTTERINE CO., Cincinnati, Ohio. Filed Dec. 31, 1927. Serial No. 259,574.

Oxford

For Oleomargarine.
Claims use since Sept. 1, 1927.

250,140. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM AYRES & SONS, INC., Philadelphia, Pa. Filed Dec. 3, 1927. Serial No. 258,396.

PURWOOL

For Pure Wool Textile Automobile Blankets and Robes.
Claims use since Oct. 15, 1927.

250,141. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR A. CRAFTS & CO., Boston Mass. Filed Nov. 9, 1927. Serial No. 257,280.

CRAFTS

For Diamond Tools—Namely, Grinding-Wheel Dressers and Truing Tools; Lithographers' Etching Tools, Engraving Tools; Drills of Various Types, Including Core Drills, Glass Cutters, and Glaziers' Tools; Engine Turning Tools, Wire-Drawing Dies, Saw Teeth, Grooving Wheels, Lathe Turning Tools, Screw-Machine Tools, and Instrument Bearings.
Claims use since Dec. 31, 1907.

250,142. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MCCANN & COMPANY, INC., Pittsburgh, Pa. Filed Oct. 22, 1927. Serial No. 256,470.

Shellwhite

For Eggs.
Claims use since Oct. 18, 1927.

250,143. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIDWEST CHEMICAL PRODUCTS, INC., Milwaukee, Wis. Filed Oct. 6, 1928. Serial No. 273,471.

KOIL KLEEN

For a Scientific Purge and Preservative for Auto Tractor and Truck Radiators and Motors.
Claims use since Mar. 19, 1927.

250,144. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VERMONT MAPLE SYRUP CO., INC., Burlington, Vt. Filed Sept. 24, 1928. Serial No. 272,912.

TRAVIS

For Maple Syrup.
Claims use since about 1897.

250,145. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) OSBORNE P. SELLS, doing business as Double Seal Ring Company, New York, N. Y. Filed Sept. 24, 1928. Serial No. 272,903.




For Piston Rings.
Claims use since September, 1918.

250,146. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) F. T. LORD POLISH CO., Cambridge, Mass. Filed Sept. 20, 1928. Serial No. 272,723.

LORD'S

For Silver, Metal, and Stove Polish.
Claims use since Jan. 1, 1899.

250,147. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. PROCHASKA, LTD., Prague, Czechoslovakia. Filed Sept. 11, 1928. Serial No. 272,240.

ORIGINAL BOUVARDIA
F. PROCHÁSKA
PRAGUE

For Face Creams—Namely, Vanishing Creams, Cleaning Creams, Cold Creams, Pomades for Absorbing Excess Oil from the Hair, Lip Sticks, Talcum Powders, Face Powders, Face-Powder Cakes, Brilliantines in Both Solid and Liquid Form, Perfumes, Toilet Waters, Sachet Powders, Hair Waters, and Smelling Salts.
Claims use since Mar. 15, 1927.

250,148. (CLASS 12. CONSTRUCTION MATERIALS.) LAVA CRUCIBLE COMPANY OF PITTSBURGH, Pittsburgh, Pa. Filed Sept. 8, 1928. Serial No. 272,111.

LAVA BOND

For Refractory Bonding Material for Use with Refractory Materials.
Claims use since about June, 1923.

250,149. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DIRECT CONTROL VALVE COMPANY, Wilmington, Del., and Chicago, Ill. Filed Sept. 5, 1928. Serial No. 271,925.




For Heating Valves and Flush Valves.
Claims use since Oct. 1, 1927.

250,150. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PERFECTION RADIO CORPORATION OF AMERICA, doing business as Perfection Radio Stores, New York, N. Y. Filed Aug. 20, 1928. Serial No. 271,313.




The drawing is lined for blue.
For Radio Products—Namely, Radio Receiving Sets, Radio Speakers, Radio A Batteries, Radio B Batteries, Radio Electron Tubes, Radio B Battery Eliminators, Radio A Battery Eliminators, Radio A and B Battery Eliminators, Television Receiving Sets and Parts Used in Radio Receiving and Television Receiving Sets Consisting of Switches, Binding Posts, Transformers, Grid Leaks, Condensers.
Claims use since October, 1922.

250,151. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) SEATTLE ASTORIA IRON WORKS, Seattle, Wash. Filed Aug. 18, 1928. Serial No. 271,275.

TROYER-FOX

Applicant claims ownership of registered Trade-Mark No. 157,627, issued Aug. 8, 1922.
For Machinery for Canning and Can Making.
Claims use since 1907.



250,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. NELSON, St. Petersburg, Fla. Filed Aug. 4, 1928. Serial No. 270,601.




For a Preparation for Exterminating Ants.
Claims use since July 1, 1922.

250,153. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. T. VANDERBILT COMPANY, INCORPORATED, New York, N. Y. Filed July 31, 1928. Serial No. 270,402.

STOP-PIT

For a Preparation to be Added to Acid Pickling Baths to Retard or Prevent the Pitting of Metals.
Claims use since Mar. 1, 1927.

250,154. (CLASS 12. CONSTRUCTION MATERIALS.) THE BESSLER DISAPPEARING STAIRWAY CO., doing business as The Disappearing Stairway Company and The Stairway Manufacturing Company, Akron, Ohio. Filed July 30, 1928. Serial No. 270,315.

Cabinet Stairway

For Disappearing Stairways Sold as Complete Units for Installation in Buildings.
Claims use since June, 1927.

250,155. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) UNAKA POTTERIES, INCORPORATED, High Point, N. C., and New York, N. Y. Filed July 7, 1928. Serial No. 269,270.

UNAKA

For Potteries—Viz, Vases and Urns.
Claims use since June 1, 1927.

250,156. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WURM BROTHERS COMPANY, Chicago, Ill. Filed Dec. 12, 1927. Serial No. 258,849.

TRULY GOOD

For Canned Fruits, Canned Vegetables, Canned Fish, Preserved Fruit, Dried Fruit, Candied and Salted Nuts, Nuts in Their Natural State, Catsup, and Chili Sauce.
Claims use since Sept. 7, 1927.

250,157. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTHUR BEIR & CO., INC., New York, N. Y. Filed Nov. 17, 1927. Serial No. 257,652.

Alwasbest Voile

For Cotton Piece Goods.
Claims use since Sept. 8, 1927.

250,158. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GUY LEE LEATHER COMPANY, Philadelphia, Pa. Filed Aug. 17, 1927. Serial No. 253,602.

TRU-OAK

For Sole Leather.
Claims use since Aug. 2, 1927.

250,159. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) KEYSTONE STEEL & WIRE COMPANY, South Bartonville, (Peoria), Ill. Filed July 29, 1927. Serial No. 252,714.

Red Brand

For Wire Fence.
Claims use since July 26, 1927.

250,160. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) L. J. MUELLER FURNACE COMPANY, Milwaukee, Wis. Filed Feb. 14, 1927. Serial No. 244,362.

PERFECTION

For Air Moistener and Humidifier Which May be Installed in Warm-Air Furnaces.
Claims use since July 7, 1926.

250,161. (CLASS 39. CLOTHING.) INTERNATIONAL MILLINERY CO. INC., New York and Albany, N. Y. Filed Jan. 11, 1927. Serial No. 242,669.

Grace & Merit

For Ladies' and Misses' Hats.
Claims use since March, 1919.

250,162. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN CHAIN COMPANY, INC., Bridgeport, Conn. Filed Dec. 1, 1926. Serial No. 240,797.

CAMPBELL

For Cotter Pins.
Claims use since December, 1923.

250,163. (CLASS 12. CONSTRUCTION MATERIALS.) EGBERT CONCRETE PRODUCTS, INC., Brooklyn, N. Y. Filed Mar. 23, 1926. Serial No. 229,025.

BESTILE

For Tiles.
Claims use since about Mar. 17, 1926.

250,164. (CLASS 12. CONSTRUCTION MATERIALS.) WOODBRIDGE ORNAMENTAL IRON COMPANY, Chicago, Ill. Filed Feb. 9, 1928. Serial No. 261,471.

PRESTEEL

For Stairways.
Claims use since Feb. 5, 1920.

250,165. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE ADJUSTA CO., New York, N. Y. Filed Mar. 29, 1928. Serial No. 263,913.

ANTIRUST

For Buckles for Personal Wear—Namely, for Men's and Boys' Knickerbocker Pants, Belts, Garters, Hats, and Caps and for Women's Undergarments.
Claims use since Aug. 2, 1919.

250,166. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) W. F. HIRSCHMAN CO., INC., Leroy, N. Y. Filed Apr. 14, 1928. Serial No. 264,821.

VANELESS OSCILLATOR

For Wind-Actuated Roof Ventilators.
Claims use since Oct. 1, 1927.

250,167. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES S. BROOKING, Kevil, Ky. Filed May 9, 1928. Serial No. 266,122.

BROOKING'S

For Preparation for Piles.
Claims use since 1926.

250,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YOUNGLOVE AND COMPANY, Tacoma, Wash. Filed June 28, 1928. Serial No. 268,833.

WAFFLE

For Cane and Maple Syrup.
Claims use since 1914.

250,169. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LESQUENDIEU, INCORPORATED, New York, N. Y. Filed June 30, 1928. Serial No. 268,930.

PATE D'AMANDES

For Cream for the Hands.
Claims use since Nov. 2, 1922.

# TRADE-MARK REGISTRATIONS RENEWED

65,988. FISHHOOKS. Registered November 5, 1907. W. E. COMPTON. Renewed November 5, 1927, to Emily Compton, Robert Ernest Compton, William Frederick Lofthouse, Bernard Beverley Wills, and Herbert Andrew Pearson, executors and trustees of the estate of Wm. E. Compton, deceased, doing business as Arthur James, Redditch, England, successor.

69,138. REMEDY FOR CERTAIN DISEASES. Registered May 19, 1908. NEIL C. POLSON, Kingston, Ontario, Canada, and Hartford, Conn. Renewed May 19, 1928, to Neil C. Polson, doing business as N. C. Polson & Company, Limited, Montreal, Canada, and Rouses Point, N. Y.

69,537. SHOES MADE OF LEATHER. Registered June 16, 1908. J. MARSHALL & BALL, INCORPORATED, Newark, N. J. Renewed June 16, 1928, to Marx B. Hausman and Max L. Friedman, trustees, New York, N. Y., assignees.

70,818. A PREPARATION FOR CERTAIN DISEASES. Registered October 6, 1908. THOMAS M. SAYMAN, St. Louis, Mo. Renewed October 6, 1928.

70,853. PERFUMED TOILET SOAP. Registered October 13, 1908. A. & F. PEARS LIMITED, London, England. Renewed October 13, 1928, to A. & F. Pears Limited, Isleworth, England, a Corporation of Great Britain and Ireland.

70,909. PANCAKE FLOUR. Registered October 13, 1908. E. R. PAHL & Co., Milwaukee, Wis. Renewed October 13, 1928, to Royal Baking Powder Company, New York, N. Y., a Corporation of New Jersey, assignee by mesne assignments.

70,912. COTTONSEED OIL. Registered October 13, 1908. MCCAW MANUFACTURING CO., Macon, Ga. Renewed October 13, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio, successor.

70,940. A POWDER FOR SOFTENING WATER AND FOR CLEANSING. Registered October 20, 1908. JAMES PYLE & SONS, Edgewater, N. J. Renewed October 20, 1928, to The Procter & Gamble Company, Cincinnati, Ohio, a Corporation of Ohio, assignee.

70,947. PLANT-FERTILIZING MATERIALS. Registered October 20, 1908. WILSON & TOOMER FERTILIZER CO., Jacksonville, Fla., a Corporation of Florida. Renewed October 20, 1928.

71,075. PLOWS AND PARTS THEREOF. Registered October 27, 1908. SYRACUSE CHILLED PLOW CO. Renewed October 27, 1928, to Syracuse Chilled Plow Co., Inc., Syracuse, N. Y., a Corporation of New York, assignee.

71,076. PLOWS AND PARTS THEREOF. Registered October 27, 1908. SYRACUSE CHILLED PLOW CO. Renewed October 27, 1928, to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y., a Corporation of New York, assignee.

71,086. LAMP CHIMNEYS, LANTERN GLOBES, AND GLASS REFLECTORS. Registered October 27, 1908. GILL BROTHERS COMPANY, Steubenville, Ohio, a Corporation of West Virginia. Renewed October 27, 1928.

71,232. CIGARS. Registered November 10, 1908. JAMAICA TOBACCO COMPANY, New York, N. Y., and Kingston, Jamaica. Renewed November 10, 1928, to B. & J. B. Machado Tobacco Co. Ltd., Kingston, Jamaica, a Corporation of Jamaica, assignee.

71,272. SPOOL COTTON, SEWING COTTON, AND THREAD. Registered November 17, 1908. THE AMERICAN THREAD COMPANY, Jersey City, N. J. Renewed November 17, 1928, to The American Thread Company, New York, N. Y., a Corporation of New Jersey.

71,374. OLIVE OIL. Registered November 24, 1908. GEORGE EHRAT. Renewed November 24, 1928, to Ehrat Cheese Company, Chicago, Ill., a Corporation of Illinois, assignee, by mesne assignments.

71,432. DENTAL CREAM. Registered November 24, 1908. COLGATE & CO., Jersey City, N. J., and New York, N. Y. Renewed November 24, 1928, to Colgate-Palmolive-Peet Company, Chicago, Ill., a Corporation of Delaware, assignee.

71,680. WATCHES. Registered December 8, 1908. E. HOWARD WATCH CO., Riverside, N. J., and Waltham, Mass. Renewed December 8, 1928, to Keystone Watch Case Corporation, Riverside, N. J., a Corporation of Pennsylvania, assignee.

71,912. ELECTRICAL SWITCHES. Registered December 22, 1908. THE PERKINS ELECTRIC SWITCH MANUFACTURING COMPANY. Renewed December 22, 1928, to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut, assignee.

71,953. TICKINGS. Registered December 22, 1908. AMOSKEAG MANUFACTURING COMPANY. Renewed December 22, 1928, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under declaration of trust of Massachusetts, assignee by mesne assignments.

71,954. TICKINGS. Registered December 22, 1908. AMOSKEAG MANUFACTURING COMPANY. Renewed December 22, 1928, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under declaration of trust of Massachusetts, assignee by mesne assignments.

71,965. HANDKERCHIEFS. Registered December 22, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed December 22, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

71,966. HANDKERCHIEFS. Registered December 22, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed December 22, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

71,967. HANDKERCHIEFS. Registered December 22, 1908. THE INTERNATIONAL MANUFACTURING CO. Renewed December 22, 1928, to The International Handkerchief Manufacturing Company, New York, N. Y., a Corporation of New York, successor.

72,033. CANNED FRUITS AND CANNED VEGETABLES. Registered December 29, 1908. STEVENS BROTHERS. Renewed December 29, 1928, to C. S. Stevens & Sons, Cedarville, N. J., a Copartnership, assignee.

72,284. MOLDED PULP PLATES AND DISHES. Registered January 12, 1909. KEYES FIBRE COMPANY, Fairfield, Me. Renewed January 12, 1929, to Keyes Fibre Company, Inc., Waterville, Me., a Corporation of Maine, assignee.

72,315. CANNED FRUITS AND CANNED VEGETABLES. Registered January 19, 1909. STEVENS BROTHERS. Renewed January 19, 1929, to C. S. Stevens & Sons, Cedarville, N. J., a Copartnership, assignee.

72,457. MOLDED PULP PLATES AND DISHES. Registered January 26, 1909. KEYES FIBRE COMPANY, Fairfield, Me. Renewed January 26, 1929, to Keyes Fibre Company, Inc., Waterville, Me., a Corporation of Maine, assignee.

73,004. STOVES AND RANGES. Registered March 9, 1909. THE GLOBE STOVE AND RANGE COMPANY, Kokomo, Ind., a Corporation of Indiana. Renewed March 9, 1929.

73,093. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,094. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,095. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,096. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,097. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,098. GRANULATED SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,099. HARD SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,100. HARD SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J. and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,101. HARD SUGAR. Registered March 16, 1909. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J. and New York, N. Y., a Corporation of New Jersey. Renewed March 16, 1929.

73,147. HOOKS AND EYES. Registered March 23, 1909. AMERICAN PIN CO., Waterville, Conn. Renewed March 23, 1929, to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut, assignee.

73,183. PORK ROLL. Registered March 23, 1909. THE TAYLOR PROVISION COMPANY, Trenton, N. J., a Corporation of New Jersey. Renewed March 23, 1929.

73,188. METAL POLISH. Registered March 30, 1909. F. T. LORD POLISH CO., Somerville, Mass. Renewed March 30, 1929, to F. T. Lord Polish Co., Cambridge, Mass., a Corporation of Massachusetts.

73,207. STOCKINGS. Registered March 30, 1909. JOSEPH BLACK & SONS COMPANY, York, Pa., a Corporation of Pennsylvania. Renewed March 30, 1929.

73,225. MACARONI, SPAGHETTI, VERMICELLI, AND IMPORTED SARDINES. Registered March 30, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed March 30, 1929.

# LABELS

## REGISTERED NOVEMBER 27, 1928.

34,988.—*Title:* ARWELL KLOROMIST. For Insecticide. ARWELL PRODUCTS COMPANY, Waukegan, Ill. Published September 1, 1928.

34,989.—*Title:* ANSWER. For Soap. WILLIAM K. BANES, doing business as Answer Soap Company, Huntington Park, Calif. Published March 15, 1928.

34,990.—*Title:* BARDELL VIEWPACK NO. 5. For Souvenir Mailing Cards. JAMES C. BARDELL, San Francisco, Calif. Published August 7, 1928.

34,991.—*Title:* BEECH-NUT COFFEE. For Coffee. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 15, 1928.

34,992.—*Title:* MOTHER'S BREAD. For Bread. CENTRAL WAXED PAPER COMPANY, Chicago, Ill. Published October 5, 1928.

34,993.—*Title:* HOME MADE BREAD. For Bread. CENTRAL WAXED PAPER COMPANY, Chicago, Ill. Published October 10, 1928.

34,994.—*Title:* YOLANDA. For Mushroom Sauce. LORENZO CLEMENTE, doing business as Yolanda Packing Co., Los Angeles, Calif. Published January 14, 1928.

34,995.—*Title:* F. H. C. HOME MADE PRESERVE. For Preserves. HARRY COHEN, doing business as F. H. C. Preserve, Chicago, Ill. Published June 30, 1928.

34,996.—*Title:* MIAMI MAID. For Bread. THE DAYTON BREAD COMPANY, Dayton, Ohio. Published November 15, 1927.

34,997.—*Title:* BULL FROG. For Malt Extract. GREAT WEST SALES CORPORATION, Chicago, Ill. Published September 8, 1928.

34,998.—*Title:* HOME KRAFT CANDIES. For Candy. GEO. HAAS & SONS, San Francisco, Calif. Published August 15, 1928.

34,999.—*Title:* HOME-MADE SPECIALS. For Candy. GEO. HAAS & SONS, San Francisco, Calif. Published September 27, 1928.

35,000.—*Title:* CONEY ISLAND. For Malt Beverages. G. HEILEMAN BREWING CO., La Crosse, Wis. Published April 2, 1928.

35,001.—*Title:* POLLY JUNIOR. For Boxes. HOAGUE-SPRAGUE CORPORATION, Lynn, Mass. Published January 3, 1928.

35,002.—*Title:* KOZAK AUTO DRY WASH. For Chemically-Treated Cleaning and Polishing Cloths. KOZAK, INC., Batavia, N. Y. Published October 3, 1928.

35,003.—*Title:* C. H. BAKER. For Footwear. FRANK C. MEYER COMPANY, INC., New York, N. Y. Published August 15, 1927.

35,004.—*Title:* MILLER'S MALTED MILK BREAD. For Bread. MILLER-PARROTT BAKING CO., Terre Haute, Ind. Published October 8, 1928.

35,005.—*Title:* MOTHER HUBBARD. For Chocolate Malt Syrup. MOTHER HUBBARD FOOD CO. INC., New York, N. Y. Published September 4, 1928.

35,006.—*Title:* TED'S BREAKFAST CLUB COFFEE. For Coffee. THEODOR MUNCK, Los Angeles, Calif. Published August 1, 1928.

35,007.—*Title:* PIC O PAC. For Fresh Packed Pears. PINNACLE PACKING COMPANY, INC., Medford, Oreg. Published August 30, 1928.

35,008.—*Title:* ARPEAKO. For Sausage Meat. ROCHESTER PACKING CO., INC., Rochester, N. Y. Published January 6, 1927.

35,009.—*Title:* ARPEAKO BUTTER. For Butter. ROCHESTER PACKING CO., INC., Rochester, N. Y. Published July 29, 1927.

35,010.—*Title:* ARPEAKO LARD. For Lard. ROCHESTER PACKING CO., INC., Rochester, N. Y. Published August 30, 1927.

35,011.—*Title:* ARPEAKO PURE PORK SAUSAGE (LITTLE LINKS). For Pure Pork Sausage, Little Links. ROCHESTER PACKING CO., INC., Rochester, N. Y. Published November 10, 1927.

35,012.—*Title:* MILK CHOCO—TALES CIRCUS PERFORMERS. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.

35,013.—*Title:* MILK CHOCO—TALES HANS & GRETCHEN. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.



35,014.—*Title:* MILK CHOCO—TALES LITTLE RED RIDING HOOD. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.

35,015.—*Title:* MILK CHOCO—TALES COWBOYS AND INDIANS. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.

35,016.—*Title:* MILK CHOCO—TALES LITTLE SNOW-WHITE. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.

35,017.—*Title:* MILK CHOCO—TALES FARMYARD CAPERS. For Molded Chocolate Cakes. SCHARF BROTHERS CO. INC., New York, N. Y. Published August 15, 1928.

35,018.—*Title:* GOLD SPUN EGG NOODLES. For Noodles. SCHONEBERGER & SONS, Chicago, Ill. Published September 20, 1928.

35,019.—*Title:* 1933 WORLD'S FAIR. For Malt Syrup. UNITED STATES BREWING CO. OF CHICAGO, Chicago, Ill. Published September 10, 1928.

35,020.—*Title:* MEADOW GOLD. For Candy. WILLIAMSON CANDY CO., Chicago, Ill. Published September 1, 1928.

# PRINTS

## REGISTERED NOVEMBER 27, 1928.

11,341.—*Title:* BEECH-NUT CANDY DROPS. For Candy. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 8, 1927.

11,342.—*Title:* FOR MORE THAN ONE HUNDRED YEARS THIS HOUSE HAS COLLECTED PEARLS. For Pearl Necklaces. BLACK, STARR & FROST, New York, N. Y. Published October 15, 1928.

11,343.—*Title:* OZARK BLACK WALNUTS. For Toasted Black Walnuts. BLODGETT NUT COMPANY, Fayetteville, Ark. Published September 17, 1928.

11,344.—*Title:* BABY RUTH, AMERICA'S FAVORITE CANDY. For Candy and Candy Bars. THE CURTISS CANDY COMPANY, Chicago, Ill. Published July 15, 1928.

11,345.—*Title:* DE LAVAL, 50 YEARS OF SERVICE TO THE DAIRYMEN OF THE WORLD. For Milking Machinery. THE DE LAVAL SEPARATOR CO., New York, N. Y. Published December 31, 1927.

11,346.—*Title:* QUALITY. For Tanks, Bodies, and Hoists THE HEIL CO., Milwaukee, Wis. Published February 20, 1928.

11,347.—*Title:* CRYSTAL TREES AND BOUTONNIERES—HOW TO MAKE THEM. For Materials for Making Glass Trees and Boutonnieres. HERBERT H. ILLCH, New York, N. Y. Published October 3, 1928.

11,348.—*Title:* THE PRINTER'S INSPIRATION. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published June 1, 1928.

11,349.—*Title:* MERCURY. For Printing Inks. CHARLES ENEU JOHNSON AND COMPANY, Philadelphia, Pa. Published July 1, 1928.

11,350.—*Title:* KELLY SPRINGFIELD TIRES. For Tires. KELLY-SPRINGFIELD TIRE CO., New York, N. Y. Published January 20, 1928.

11,351.—*Title:* BALL BEARINGS. For Ball Bearings. THE NEW DEPARTURE MANUFACTURING COMPANY, Bristol, Conn. Published December 26, 1927.

11,352.—*Title:* NOW YOU'LL LIKE BRAN. For Post's Bran Flakes. POSTUM COMPANY, INCORPORATED, New York, N. Y. Published February 20, 1928.

11,353.—*Title:* MODERN DECORATIVE EFFECTS CAN BE HAD WITH SANITAS. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y. Published August 1, 1928.

11,354.—*Title:* GRACE TANCILL JERSEY DRESS MODEL 11A. For Dresses. GRACE TANCILL, St. Louis, Mo. Published October 15, 1928.

11,355.—*Title:* GRACE TANCILL JERSEY DRESS MODEL V. For Dresses. GRACE TANCILL, St. Louis, Mo. Published October 15, 1928.

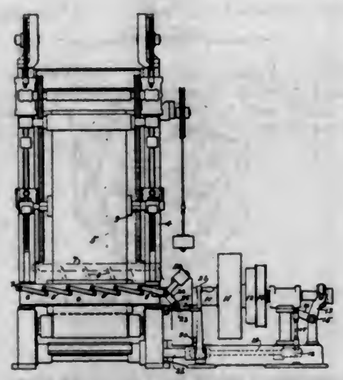
11,356.—*Title:* GRACE TANCILL JERSEY DRESS MODEL V11A. For Dresses. GRACE TANCILL, St. Louis, Mo. Published October 15, 1928.

11,357.—*Title:* WELCH CONCORD HARVEST BULLETIN. For Welch's Grape Juice. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Published October 1, 1928.

# REISSUES

## NOVEMBER 27, 1928.

17,145. PROTECTIVE GUARD FOR WINDING OR OTHER MACHINES. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1928. Serial No. 310,652. Original No. 1,605,170, dated Nov. 2, 1926, Serial No. 678,336, filed Dec. 3, 1923. 4 Claims. (Cl. 74—105.)

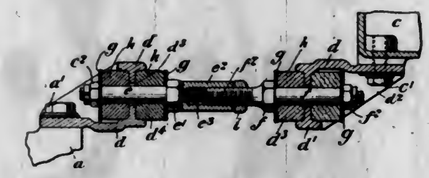


1. The combination with a surface winding drum and a winding shaft to receive wound material that engages the upper surface of the winding drum of a support in front of the drum, a bar above the support, a plurality of parallel links pivotally connected with the support and bar, an actuating device to move the links, to raise the bar and thereby to shield the lip between the drum and wound material, driving mechanism to operate said drum, a clutch to control the draving connection between said drum and driving mechanism, and connections between said actuating device and said clutch.

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17,146. YIELDING CONNECTIONS FOR RELATIVELY-MOVABLE MEMBERS. ERVING R. GURNEY, Beechhurst, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed July 20, 1928. Serial No. 294,297. Original No. 1,660,671, dated Feb. 28, 1928, Serial No. 56,911, filed Sept. 17, 1925. 4 Claims. (Cl. 180—54.)

1. A connection and support between a radiator and the top of an engine comprising, in combination, a bracket carried with the radiator, a bracket carried with the engine top, seats formed on the brackets, respectively, and apertures formed in the seat portions, a telescoping element passing through the apertures in the respective brackets, blocks of yielding non-metallic material interposed operatively between the adjustable elements and the



seat portions, means to retain said yielding non-metallic material under compression, and means to vary the effective length of the connecting elements.

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17,147. VEHICLE BRAKE. ROY S. SANFORD, South Bend, Ind., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1928. Serial No. 315,089. Original No. 1,668,338, dated May 1, 1928, Serial No. 581,945, filed Aug. 15, 1922. 33 Claims. (Cl. 188—78.)



19. A brake comprising, in combination, a drum, a support at the open side of the drum, friction means housed within the drum and between the drum and support, applying means within the drum, a flexible conduit fixedly secured at its end to the support, and a flexible device extending through the conduit and inside of the drum beyond the conduit and there connected to said applying means.

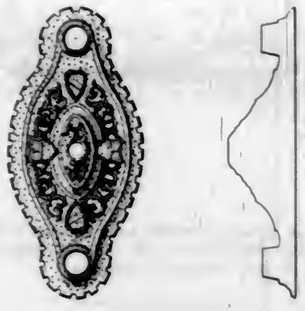
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17,148. [WITHDRAWN.]

# DESIGNS

## NOVEMBER 27, 1928.

76,974. LIGHTING-FIXTURE PLATE OR ANALOGOUS ARTICLE. GEORGE H. ALTBACH, Brooklyn, N. Y., assignor to Eagle Lites, Inc., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,216. Term of patent 3½ years.



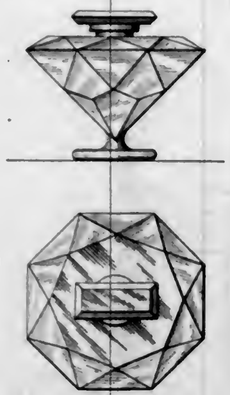
The ornamental design for a lighting-fixture plate or analogous article substantially as shown.

76,975. BRACKET PLATE FOR LIGHTING FIXTURES OR ANALOGOUS ARTICLE. GEORGE H. ALTBACH, Brooklyn, N. Y., assignor to Eagle Lites, Inc., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,218. Term of patent 3½ years.



The ornamental design for a bracket plate for lighting fixtures or analogous article substantially as shown.

76,976. BOTTLE. SAMUEL K. APPLEBAUM, Hollywood, Calif. Filed Aug. 21, 1928. Serial No. 27,903. Term of patent 14 years.



The ornamental design for a bottle, as shown.

76,977. CANDY OR SIMILAR ARTICLE. CARL M. BALDWIN, Columbus, Ohio. Filed Mar. 31, 1927. Serial No. 21,415. Term of patent 14 years.



The ornamental design for candy or similar article as shown.





76,978. WRAPPING PAPER. ABNER BARON, New York, N. Y., assignor to Royal Card & Paper Co., a Corporation of New York. Filed May 26, 1928. Serial No. 26,871. Term of patent 14 years.



The ornamental design for wrapping paper as shown.

76,979. HOT-WATER BOTTLE. HARRY A. BAUMAN, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 12, 1928. Serial No. 25,812. Term of patent 14 years.



The ornamental design for a hot water bottle as shown and described.

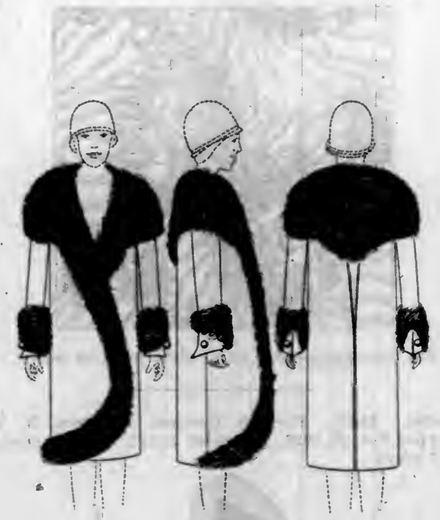
76,980. TABOURET. GUNDE BERGSTROM, Los Angeles, Calif. Filed Oct. 3, 1927. Serial No. 23,611. Term of patent 7 years.



The ornamental design for a tabouret, substantially as shown.



76,981. COAT. ELIZABETH CARNEY, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 4, 1928. Serial No. 27,716. Term of patent 3½ years.



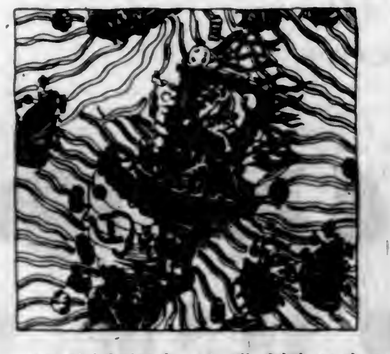
The ornamental design for a coat substantially as shown and described.

76,982. TEXTILE FABRIC. JEANNE CASTRO, New York, N. Y., assignor to R. & H. Simon Company, n Corporation of New Jersey. Filed Sept. 25, 1928. Serial No. 28,272. Term of patent 3½ years.



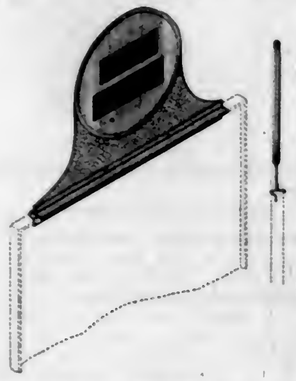
The ornamental design for a textile fabric as shown.

76,983. TEXTILE FABRIC. JEANNE CASTRO, New York, N. Y., assignor to R. & H. Simon Company, a Corporation of New Jersey. Filed Sept. 25, 1928. Serial No. 28,273. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

76,984. SIGN. FREMONT CHESTER, Rochester, N. Y. Filed Nov. 28, 1927. Serial No. 24,317. Term of patent 7 years.



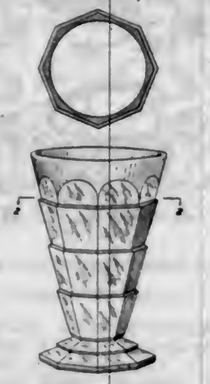
The ornamental design for a sign, as shown.

76,985. TUMBLER OR SIMILAR ARTICLE. JEDDIA B. CLARK, Dunkirk, Ind., assignor to The Indiana Glass Company, Dunkirk, Ind., a Corporation of Indiana. Filed Sept. 24, 1928. Serial No. 28,253. Term of patent 7 years.



The ornamental design for a tumbler or similar article, as shown.

76,986. TUMBLER OR SIMILAR ARTICLE OF MANUFACTURE. JEDDIA B. CLARK, Dunkirk, Ind., assignor to The Indiana Glass Company, Dunkirk, Ind., a Corporation of Indiana. Filed Sept. 24, 1928. Serial No. 28,254. Term of patent 7 years.



The ornamental design for a tumbler or similar article of manufacture.

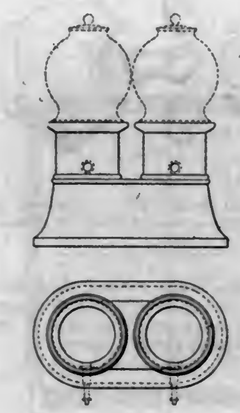
76,987. TABLE LAMP OR ARTICLE OF ANALOGOUS NATURE. PAUL CRICCHIO, New York, N. Y., assignor to Majestic Lamp Works, New York, N. Y., a Partnership consisting of Philip Silberhartz, Jacob Silberhartz, and Harry Scheiner. Filed Sept. 5, 1928. Serial No. 28,050. Term of patent 7 years.



The ornamental design for a table lamp or article of analogous nature substantially as shown and described.

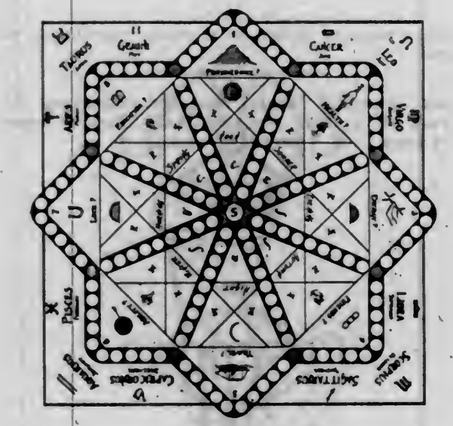


76,988. VENDING STAND. ALVIE C. CRIMMEL, Hartford City, Ind. Filed Mar. 1, 1928. Serial No. 25,630. Term of patent 3½ years.



The ornamental design for a vending stand, as shown and described.

76,989. GAME BOARD. JOSEPH G. CULLIGAN, New York, N. Y. Filed June 25, 1928. Serial No. 27,265. Term of patent 3½ years.



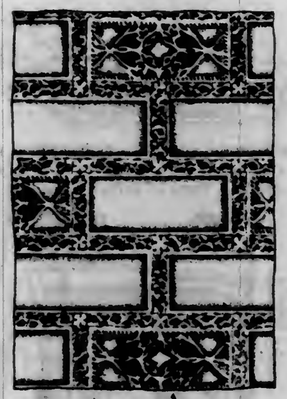
The ornamental design for a game board, as shown and described.

76,990. BOTTLE. JEROME P. CURRAN, Toledo, Ohio, assignor to The American Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 12, 1927. Serial No. 20,351. Term of patent 14 years.



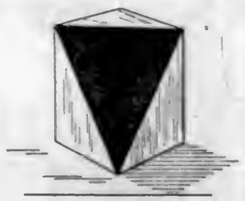
The ornamental design for a bottle, substantially as shown.

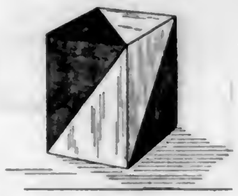
76,991. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,148. Term of patent 3½ years.



The ornamental design for oilcloth as shown.

76,992. CARTON OR SIMILAR ARTICLE. WALTER W. FAWCETT, Shaker Heights, Ohio, assignor to Fuller & Smith, Cleveland, Ohio, a Corporation of Michigan. Filed Oct. 2, 1926. Serial No. 19,232. Term of patent 14 years.





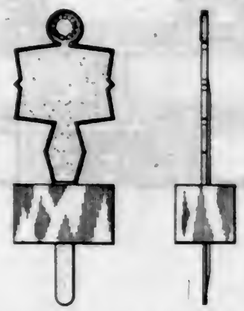
The ornamental design for a carton or similar article substantially as shown and described.

76,993. AUTOMOBILE RADIATOR EMBLEM. ELMER W. FERGUSON, New Haven, Conn., assignor to Connecticut Chiropractors' Association, New Haven, Conn. Filed June 25, 1928. Serial No. 27,282. Term of patent 7 years.



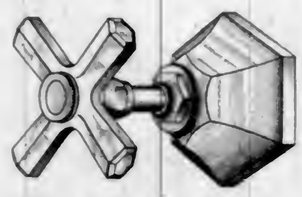

The ornamental design for an automobile radiator emblem, as shown.

76,994. MEMORIAL GRAVE MARKER. FRANK F. FISCHER, Oklahoma City, Okla. Filed May 3, 1928. Serial No. 26,559. Term of patent 3½ years.



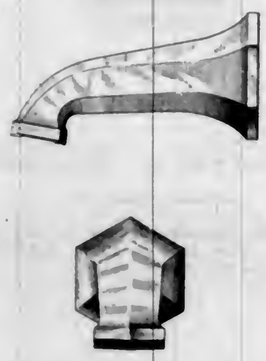
The ornamental design for a memorial grave marker, as shown.

76,995. COMBINED VALVE STEM, HANDLE, AND ESCUTCHEON. JAMES FRASER, Edge Moor, Del., assignor to The Speakman Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1928. Serial No. 25,676. Term of patent 7 years.



The ornamental design for a combined valve stem, handle, and escutcheon, substantially as shown.

76,996. NOZZLE. JAMES FRASER, Edge Moor, Del., assignor to The Speakman Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 5, 1928. Serial No. 25,677. Term of patent 7 years.



The ornamental design for a nozzle, substantially as shown.

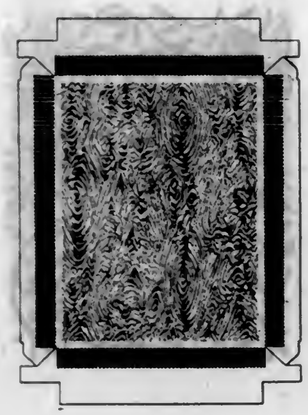
76,997. HOSIERY. ROBERT FRIEDRICH, Philadelphia, Pa. Filed Dec. 9, 1927. Serial No. 24,427. Term of patent 14 years.



The ornamental design for hosiery, as shown.

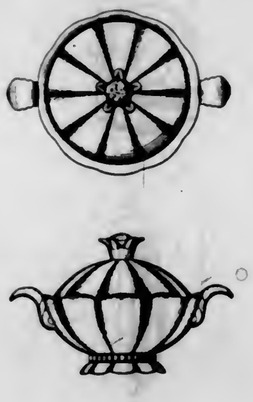


76,998. BOX BLANK OR SIMILAR ARTICLE. LOUIS H. GEBHART, Dayton, Ohio, assignor to The Gebhart Folding Box Company, Dayton, Ohio, a Corporation of Ohio. Filed May 17, 1928. Serial No. 26,711. Term of patent 14 years.



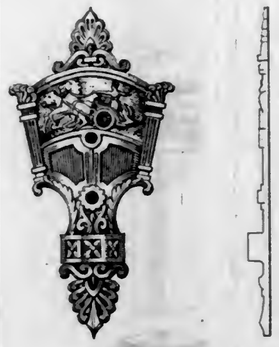
The ornamental design for a box blank or similar article as shown.

76,999. COVERED DISH. JOHN V. GODDARD, Trentham, England, assignor to Hugh C. Edmiston, New York, N. Y. Filed Aug. 24, 1928. Serial No. 27,950. Term of patent 7 years.



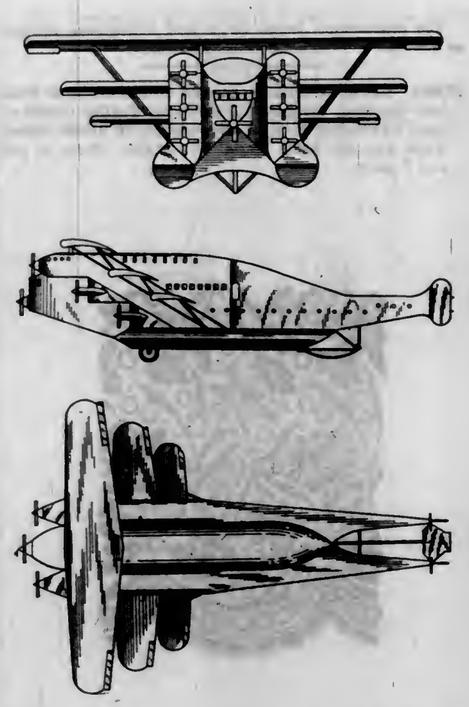
The ornamental design for a covered dish, substantially as shown.

77,000. LIGHTING-FIXTURE BACKPLATE OR ANALOGOUS ARTICLE. JULIUS GROSSMAN, New York, N. Y., assignor to Eagle Lites, Inc., a Corporation of New York. Filed Sept. 21, 1928. Serial No. 28,228. Term of patent 3½ years.



The ornamental design for a lighting fixture backplate or analogous article substantially as shown.

77,001. AIRSHIP. AUGUSTUS J. HARPSTRITE, Los Angeles, Calif. Filed Aug. 1, 1927. Serial No. 22,969. Term of patent 3½ years.



The ornamental design for an airship substantially as shown.

77,002. BIRD-HOUSE ROAD MARKER. ROBERT R. HARTMAN, Perry, Okla. Filed July 30, 1928. Serial No. 27,619. Term of patent 14 years.



The ornamental design for a bird house road marker, as shown.

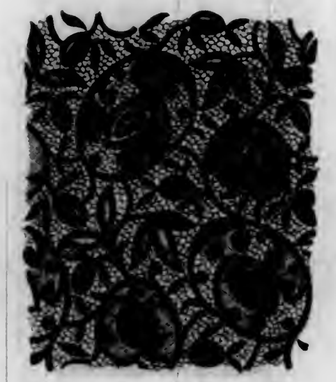
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77,003. LACE. REGINALD ARTHUR HOLLINGWORTH, Beeston, England, assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Aug. 24, 1928. Serial No. 27,956. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

77,004. LACE. REGINALD ARTHUR HOLLINGWORTH, Beeston, England, assignor to American Textile Company, Inc., Pawtucket, R. I., a Corporation of Rhode Island. Filed Aug. 24, 1928. Serial No. 27,957. Term of patent 7 years.



The ornamental design for lace, substantially as shown.

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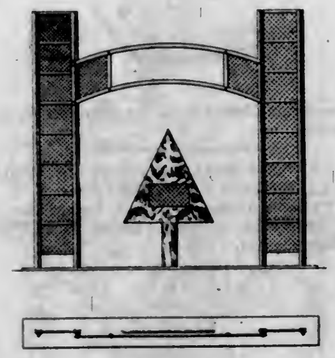
77,005. WATCHCASE. ELLISON S. IRELAN, Elgin, Ill., assignor to Illinois Watch Case Company, Elgin, Ill., a Corporation of Illinois. Filed Aug. 22, 1928. Serial No. 27,910. Term of patent 7 years.



The ornamental design for a watchcase, as shown.



77,006. ROAD SIGN. THOMAS H. JOHNS, Etowah, Tenn. Filed Aug. 15, 1928. Serial No. 27,823. Term of patent 14 years.



The ornamental design for a road sign, as shown.

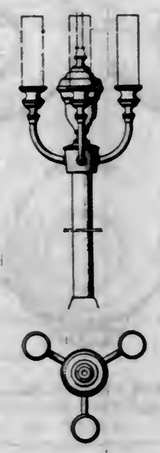
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77,007. SUPPORTING PEDESTAL FOR LAMPS. ALEXANDER R. KANNÉ, Brooklyn, N. Y. Filed Aug. 24, 1928. Serial No. 27,945. Term of patent 7 years.



The ornamental design for a supporting pedestal for lamps, as shown.

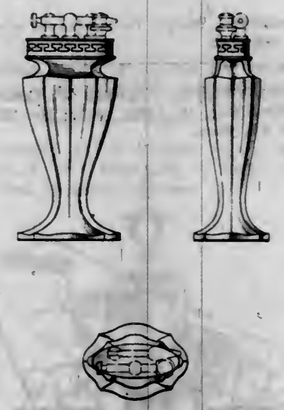
77,008. CLUSTER LAMP. ALEXANDER R. KANNÉ, Brooklyn, N. Y. Filed Aug. 24, 1928. Serial No. 27,946. Term of patent 7 years.



The ornamental design for a cluster lamp, as shown and described.

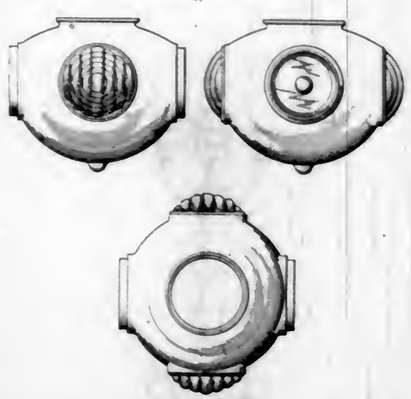
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77,009. BODY FOR CIGAR AND CIGARETTE LIGHTERS. RAYMOND S. KNAPP, New York, N. Y. Filed July 30, 1928. Serial No. 27,623. Term of patent 3½ years.



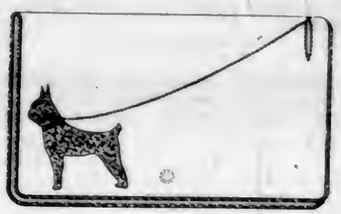
The ornamental design for a body for cigar and cigarette lighters, as shown.

77,010. COMBINED LIGHT GLOBE AND TRAFFIC SIGNAL. ROLPH J. LACKNER, Ozone Park, N. Y., assignor to Lackner Products Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Apr. 5, 1928. Serial No. 26,144. Term of patent 14 years.



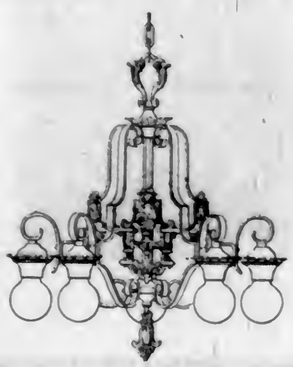
The ornamental design for a combined light globe and traffic signal, as shown.

77,011. LADY'S POCKETBOOK. SALLY M. LODEWICK, New York, N. Y. Filed May 22, 1928. Serial No. 26,807. Term of patent 3½ years.



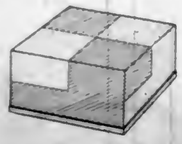
The ornamental design for a lady's pocketbook, as shown and described.

77,012. CHANDELIER. CHARLES W. LOGAN, Kenmore, N. Y. Filed Mar. 10, 1928. Serial No. 25,789. Term of patent 3½ years.



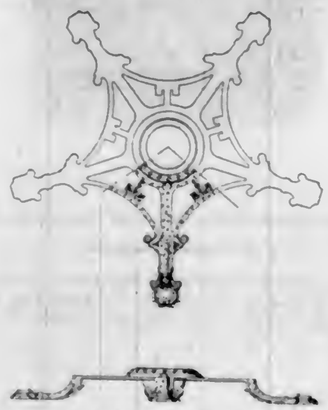
The ornamental design for a chandelier, as shown.

77,013. BOX. ROBERT LIDDELL, Puteaux, France, assignor to Société Parisienne des Produits de Beaute "Ganna Walska," Pantin, France. Filed Oct. 3, 1927. Serial No. 23,614, and in France June 3, 1927. Term of patent 7 years.



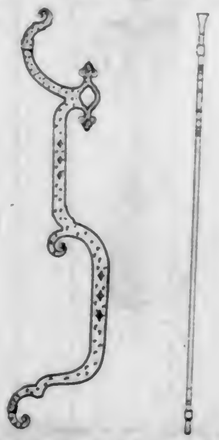
The ornamental design for a box substantially as shown and described.

77,014. LIGHTING-FIXTURE PLATE OR ANALOGOUS ARTICLE. NORMAN LIPSKY, New York, N. Y., assignor to Halcolite Company, Inc., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,187. Term of patent 7 years.



The ornamental design for a lighting fixture plate or analogous article, substantially as shown and described.

77,015. LIGHTING-FIXTURE STREAMER OR ARTICLE OF ANALOGOUS NATURE. NORMAN LIPSKY, New York, N. Y., assignor to Halcolite Company, Inc., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,188. Term of patent 7 years.



The ornamental design for a lighting fixture streamer or article of analogous nature substantially as shown.

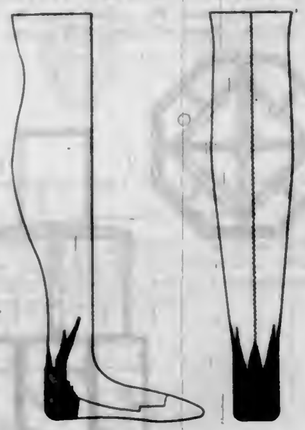


77,016. LIGHTING-FIXTURE WALL BRACKET OR ARTICLE OF SIMILAR NATURE. NORMAN LIPSKY, New York, N. Y., assignor to Halcolite Company, Inc., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,189. Term of patent 7 years.



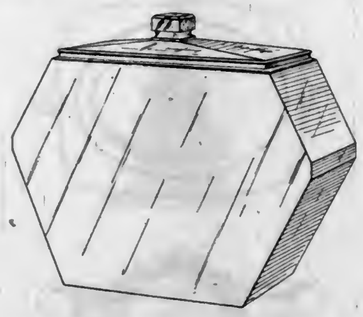
The ornamental design for a lighting fixture wall bracket or article of similar nature substantially as shown.

77,017. HOSIERY. FRED H. L. LUEDDE, Philadelphia, Pa. Filed Dec. 16, 1927. Serial No. 24,506. Term of patent 14 years.



The ornamental design for hosiery as shown.

77,018. FISH BOWL OR SIMILAR ARTICLE. THOMAS W. MCCREARY, Monaca, Pa., assignor to The Phoenix Glass Company, Monaca, Pa., a Corporation of West Virginia. Filed May 17, 1928. Serial No. 26,720. Term of patent 7 years.



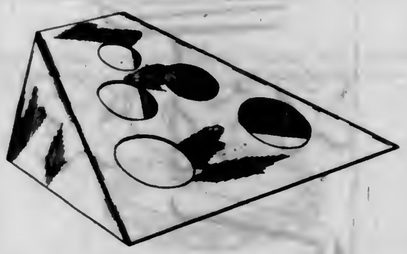
The ornamental design for a fish bowl or similar article, as shown.

77,019. SCROLL ARM FOR AN ELECTRIC-LIGHTING FIXTURE OR SIMILAR ARTICLE. GLENN E. MCFADDEN, Kansas City, Mo. Filed Feb. 23, 1928. Serial No. 25,531. Term of patent 7 years.



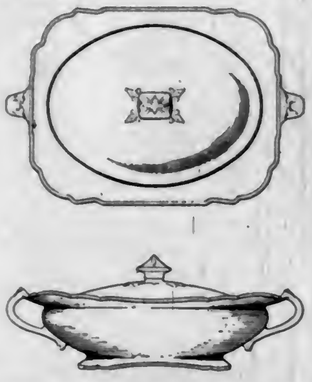
The ornamental design for a scroll arm for an electric lighting fixture, or similar article, substantially as shown.

77,020. FIRESIDE GOLF GREEN. CARL ARNO MEILICKE, Chicago, Ill. Filed Feb. 6, 1928. Serial No. 25,246. Term of patent 14 years.



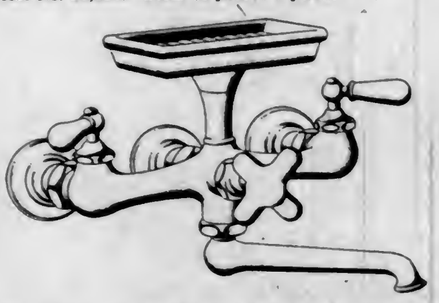
The ornamental design for a fireside golf green, as shown.

77,021. COVERED DISH OR SIMILAR ARTICLE. THOMAS C. MERRIMAN, Tunstall, England, assignor to William S. Pitcairn Corporation, a Corporation of New York. Filed June 30, 1928. Serial No. 27,335. Term of patent 7 years.



The ornamental design for a covered dish or similar article as shown.

77,022. COMBINATION SINK FAUCET. ROBERT H. MUELLER, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed May 23, 1928. Serial No. 26,814. Term of patent 7 years.



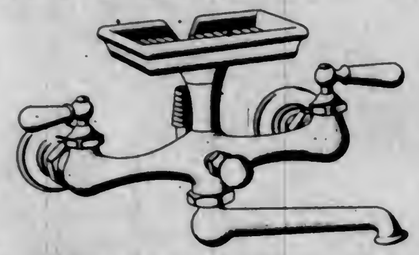
The ornamental design for a combination sink faucet, substantially as shown.

77,023. COMBINATION SINK FAUCET. ROBERT H. MUELLER, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed May 23, 1928. Serial No. 26,815. Term of patent 7 years.



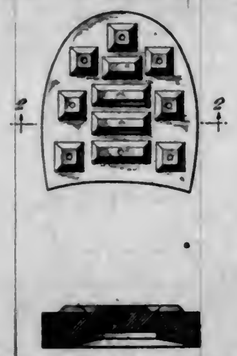
The ornamental design for a combination sink faucet, substantially as shown.

77,024. COMBINATION SINK FAUCET. ROBERT H. MUELLER, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a Corporation of Illinois. Filed May 23, 1928. Serial No. 26,816. Term of patent 7 years.



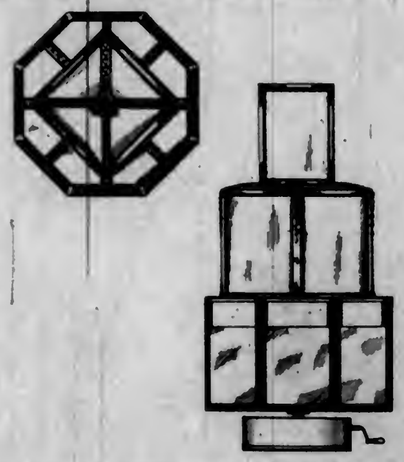
The ornamental design for a combination sink faucet, substantially as shown.

77,025. SHOE HEEL. LAURENCE M. OAKLEY, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Sept. 24, 1928. Serial No. 28,259. Term of patent 14 years.



The ornamental design for a shoe heel as shown.

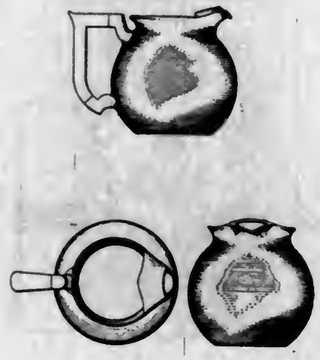
77,026. ADVERTISING-DISPLAY FIXTURE. JOHN P. RILEY, Philadelphia, Pa. Filed Sept. 3, 1927. Serial No. 23,285. Term of patent 3½ years.



The ornamental design for an advertising display fixture as shown.



77,027. PITCHER. MARSDEN JESIAH PERRY, Jr., Providence, R. I. Filed Aug. 4, 1928. Serial No. 27,705. Term of patent 14 years.



The ornamental design for a pitcher substantially as shown.

77,028. VALVE FITTING. EMIL PRICE and WILLIAM A. PFISTER, Los Angeles, Calif. Filed May 15, 1928. Serial No. 26,680. Term of patent 14 years.



The ornamental design for a valve fitting, as shown.

77,029. SOLE FOR A SHOE. JAROSLAV RICHTER and RUDOLF JEŽEK, Holice, Czechoslovakia. Filed July 6, 1928, Serial No. 27,401, and in Czechoslovakia May 8, 1928. Term of patent 14 years.



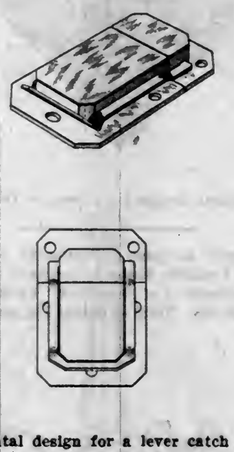
The ornamental design for a sole for a shoe as shown.

77,030. ARTIFICIAL TREE. FRANK JOSEPH RIHA, known as Don Riha, Chicago, Ill. Filed Aug. 31, 1927. Serial No. 23,252. Term of patent 3½ years.



The ornamental design for an artificial tree, as shown and described.

77,031. LEVER CATCH. JOHN B. RUSS, Shelton, Conn. Filed July 2, 1928. Serial No. 27,360. Term of patent 7 years.



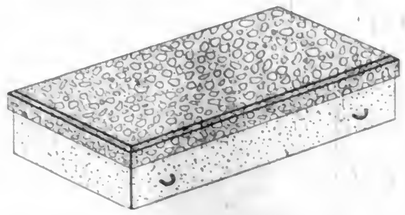
The ornamental design for a lever catch as shown.

77,032. RING. ABRAHAM SAGER, Chicago, Ill. Filed Sept. 19, 1928. Serial No. 28,199. Term of patent 14 years.



The ornamental design for a ring as shown.

77,033. GRAVE COVER OR SIMILAR ARTICLE. IRA E. SARBER, Elmore, Ala. Filed Apr. 5, 1928. Serial No. 26,134. Term of patent 14 years.



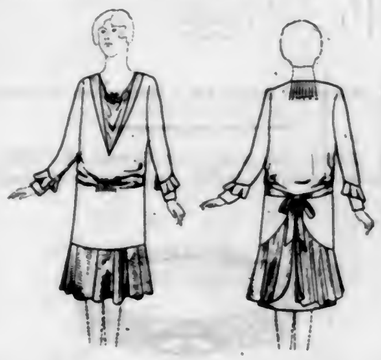
The ornamental design for a grave cover or similar article, as shown.

77,034. BOX. FRANK J. SCHLEISCHER, St. Louis, Mo. Filed May 31, 1928. Serial No. 26,924. Term of patent 14 years.



The ornamental design for a box, as shown.

77,035. DRESS. MILDRED C. SCHMOLZE, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,208. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

77,036. DRESS. MILDRED C. SCHMOLZE, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,209. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

77,037. DRESS. MILDRED C. SCHMOLZE, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,210. Term of patent 3½ years.



The ornamental design for a dress substantially as shown and described.

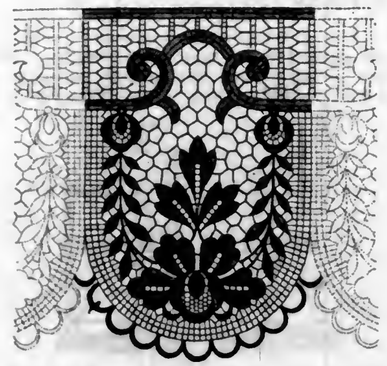
77,038. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Sept. 15, 1928. Serial No. 28,152. Term of patent 3½ years.



The ornamental design for embroidered lace edging, as shown.



77,039. EMBROIDERED LACE EDGING. HENRY SCHWARBER, Weehawken, N. J. Filed Sept. 26, 1928. Serial No. 28,280. Term of patent 3½ years.



The ornamental design for embroidered lace edging, as shown.

77,040. DRESS. MAUDE SIEGEL, New York, N. Y., assignor to Franklin Simon & Company, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 17, 1928. Serial No. 28,178. Term of patent 3½ years.



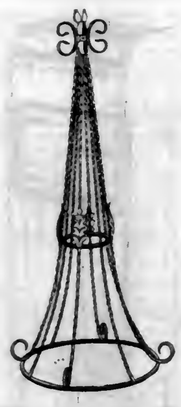
The ornamental design for a dress substantially as shown and described.

77,041. LAMP SHADE. CHARLES F. STALLBAUM, Everett, Wash. Filed May 31, 1928. Serial No. 26,925. Term of patent 3½ years.



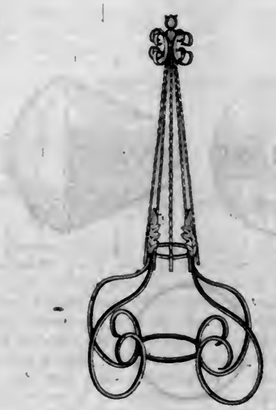
The ornamental design for a lamp shade, as shown.

77,042. LAMP BASE. CHARLES F. STALLBAUM, Everett, Wash. Filed May 31, 1928. Serial No. 26,927. Term of patent 3½ years.



The ornamental design for a lamp base, as shown.

77,043. LAMP BASE. CHARLES F. STALLBAUM, Everett, Wash. Filed May 31, 1928. Serial No. 26,928. Term of patent 3½ years.



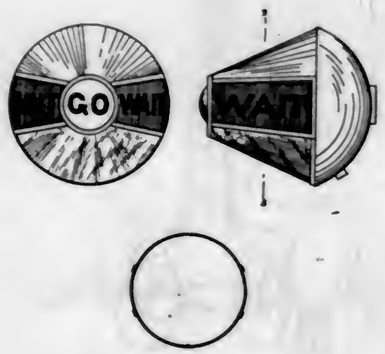
The ornamental design for a lamp base, as shown.

77,044. TOWEL CABINET. FRANK M. STEINER, Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed June 29, 1928. Serial No. 27,326. Term of patent 14 years.



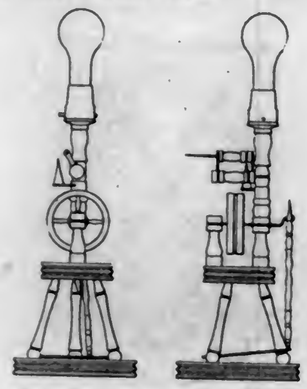
The ornamental design for a towel cabinet, as shown.

77,045. SIGNAL-LAMP CASING. DUANE F. SWARTWOUT, Los Angeles, Calif. Filed Aug. 8, 1928. Serial No. 27,745. Term of patent 3½ years.




The ornamental design for a signal lamp casing, substantially as shown.

77,046. LAMP STAND. LEO H. TUTT and EUGENE C. CLARK, Topeka, Kans. Filed June 12, 1928. Serial No. 27,095. Term of patent 7 years.



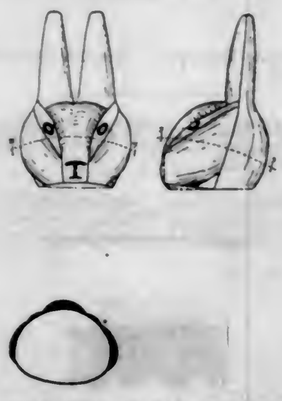
The ornamental design for a lamp stand, as shown.

77,047. LIGHTING-FIXTURE WALL BRACKET. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, a Corporation of New York. Filed Sept. 22, 1928. Serial No. 28,239. Term of patent 7 years.



The ornamental design for a lighting-fixture wall bracket substantially as shown and described.

77,048. DOLL HEAD. LORENA B. WALKER, Irving Township, Barry County, Mich. Filed Dec. 10, 1927. Serial No. 24,441. Term of patent 3½ years.

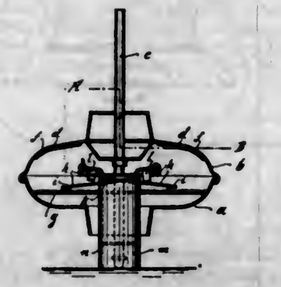


The ornamental design for a doll head substantially as shown.

# PATENTS

## GRANTED NOVEMBER 27, 1928.

1,692,802. ILLUMINATED TOP. CARL ARNOLD, Nuremberg, Germany. Filed July 21, 1926, Serial No. 124,057, and in Germany Feb. 22, 1926. 1 Claim. (Cl. 46—32.)



An illuminated top comprising in combination a body of the top, a top plate of the body, apertures in said top plate, transparent ring segments in different colours covering said apertures, a bottom plate, a vertical stationary sleeve in the bottom plate serving as support for said body, a horizontal plate fixed on the top of said vertical sleeve, a ring on the lower portion of said body, a band of emery on said ring, radial arms movably mounted at their outer ends on said horizontal plate, a block of cerium iron on the end of each arm and resting upon said emery band, and two stops integral with the arms, inwardly projecting from the arms, and engaging with the outer edge of the horizontal plate in such a manner as to necessarily limit the vibratory movements of said arms.

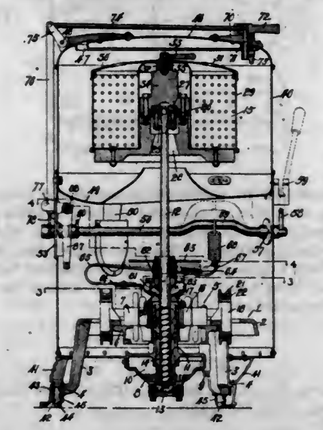
1,692,803. PROPULSIVE AMUSEMENT CAR OR EXERCISER. HAROLD F. BARTLEY, New York, N. Y. Filed Aug. 9, 1927. Serial No. 211,686. 15 Claims. (Cl. 208—38.)



1. A propulsive vehicle or exerciser, comprising a body capable of lateral movement in alternately-opposite directions, and a plurality of propelling devices having articulated connection to the body and arranged for successive ground-contact and thereupon effective to propel the vehicle longitudinally.

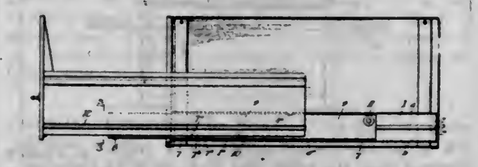
1,692,804. CENTRIFUGAL MACHINE. WILLIAM EMIL BOCK, Eagle Point Colony, Ohio, assignor, by mesne assignments, to The Bock Laundry Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Aug. 24, 1923. Serial No. 659,120. 5 Claims. (Cl. 192—136.)

4. In combination, a driven means, an enclosing case for the means having a cover capable of opening to permit access thereto, a manually controlled locking means for the cover having a reciprocally movable member, a lever having an arm engaging said member and operable when in one position of its movement to prevent cover releasing movements of the locking means, movable means normally standing in one position of its movement and adapted



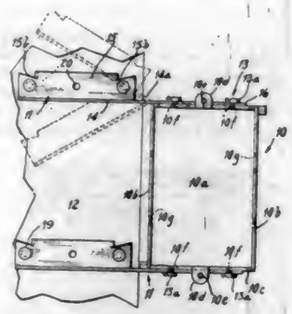
when held in such position to coact with said member and prevent cover releasing movements of said locking means, and means centrifugally operated by said driven means to move a part thereof into the path of movement of said movable means to hold it in its normal position of movement until the speed of movement of the driven means has been reduced a predetermined extent.

1,692,805. DRAWER SUPPORT. AXEL H. ANDERSSON, Benton Harbor, Mich., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y., a Corporation of Delaware. Filed Feb. 7, 1924. Serial No. 691,127. 2 Claims. (Cl. 45—77.)



2. A drawer support comprising a pair of stationary track members each having a vertical intermediate portion secured to the drawer casing and horizontal upper and lower flanges extending towards each other, a pair of floating members each having a vertical body portion arranged parallel with and adjacent said stationary track member and having four rollers mounted on the inner side thereof, the said rollers including a front bottom roller above the plane of the bottom flange and a pair of upper and lower intermediate rollers and an upper rear roller below the plane of said upper flange, the upper flanges of the track members being severally longitudinally slitted and the portion of each member adjacent its slit being bent down in a short loop below the level of the top of the associated floating member, and a pair of rails secured to the drawer and severally arranged to pass below said upper rollers and above said lower rollers of its corresponding floating member.

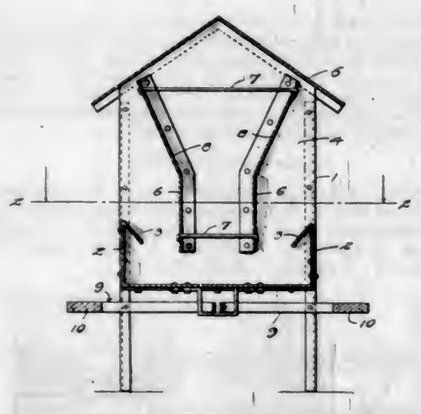
1,692,806. ELECTRIC OUTLET-BOX SUPPORT. LOUIS BARNETT, Brooklyn, N. Y., assignor to Standard Flexible Electric Cable Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 7, 1927. Serial No. 189,466. 4 Claims. (Cl. 247—21.)



1. A device of the character described for attaching an outlet box to a stud, comprising a member having an angled portion, a flange of said portion formed with means for attaching the device to the face of the stud, the other flange of said angled portion being extended to form a flat strip, said strip being provided with means for attachment to the outlet box.

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1,692,807. POULTRY FEEDER. HAROLD S. BARNES, Allentown, Pa. Filed July 23, 1927. Serial No. 208,008. 3 Claims. (Cl. 119—55.)

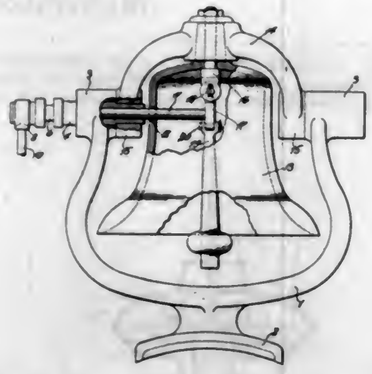


1. A poultry feeder comprising a frame, a housing mounted upon the frame and enclosing a food hopper, a trough mounted upon the frame below the hopper and forming part of the housing, a perch pivoted to the frame, the outer portion of the perch extending beyond the trough and the inner portion being disposed beneath the trough and against which it is adapted to strike when the outer end of the perch is depressed by the weight of a fowl, and means attached to the bottom of the trough and depending below the same limiting the downward movement at the inner end of the perch.

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1,692,808. BELL-RINGING MECHANISM. ALBERT L. BAUER, St. Louis, Mo., assignor of one-half to Barnett Morse Brownell, St. Louis, Mo. Filed Aug. 26, 1927. Serial No. 215,553. 5 Claims. (Cl. 116—25.)

1. A bell ringing mechanism comprising a stationary frame, a yoke pivoted to swing in said frame, a bell supported by said yoke, a bell clapper, a link pivotally connected to said bell clapper, a support, a pivot connection between said support and said link, said pivot connection



having an axis transverse of the axis of the pivot connection between the clapper and the link, and a reciprocating plunger extending through the bell and adapted to reciprocate said link.

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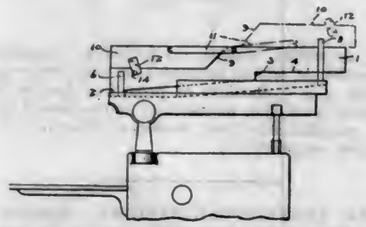
1,692,809. BRACELET CHAIN. SIDNEY O. BIGNEY, Attleboro, Mass., assignor to S. O. Bigney & Company, Attleboro, Mass., a Corporation of Massachusetts. Filed Feb. 18, 1927. Serial No. 169,231. 1 Claim. (Cl. 63—5.)



A bracelet comprising a series of connected units, each unit comprising a body member and a slide member movable relatively thereto from one end only thereof, each of said units being disposed to permit the slide member to extend in the same direction from the body member, similar hooks connected to the end units of the bracelet, one hook having a tongue folded about the body member, and the other hook having a loop through which the slide member passes whereby each of said units is extendible in the same direction and the end hooks are attached to relatively different parts of the end units.

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1,692,810. GUIDE FOR MEAT SLICERS. JOHN STANLEY BLAIKIE, Toronto, Ontario, Canada. Filed Sept. 27, 1927. Serial No. 222,362. 4 Claims. (Cl. 146—102.)



1. A guide for meat slicers, comprising a thin metal plate adapted to be supported in a vertical position at the outward side of the slicer table and having the forward end formed with a removable section.

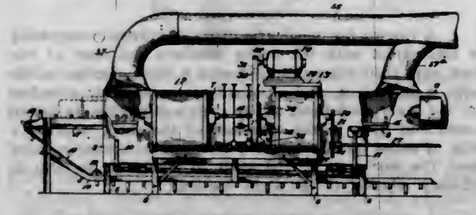


1,692,811. MANUFACTURE OF HYDROGEN. FRANK C. BLAKE, deceased, Wilmington, Del., by Roberta L. Blake, administratrix, Wilmington, Del., assignor to Lazote Inc., Wilmington, Del., a Corporation of Delaware. Filed July 20, 1927. Serial No. 207,319. 5 Claims. (Cl. 23—213.)

4. The process of manufacturing hydrogen which comprises subjecting steam together with carbon monoxide to the action of a non-ferrous catalyst in an apparatus the interior surfaces of which are of a non-ferrous material.

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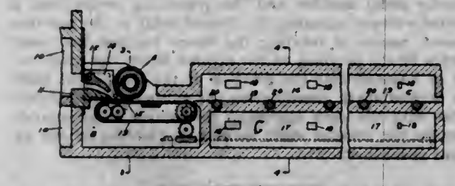
1,692,812. MACHINE FOR WASHING AND DRYING SHEET-METAL BOXES OR CANS. GEORGE S. BLAKESLEE, Oak Park, Ill.; George R. Blakeslee executor of the said George S. Blakeslee, deceased. Filed Jan. 17, 1921. Serial No. 437,826. 13 Claims. (Cl. 34—12.)



1. A machine of the class described comprising a horizontally extending housing, one portion of which constitutes a cleansing compartment and another portion of which constitutes a drying compartment, said compartments being directly contiguous and in constant communication, a conveyor passing through said cleansing and drying compartments for conducting articles through both, means in said cleansing compartment for cleansing said articles, said means tending to saturate the air contained in said cleansing compartment with moisture, a first outlet flue connected to said housing adjacent the inlet end of said cleansing compartment, a second outlet flue connected to said housing adjacent the inlet end of said drying compartment, suction means connected to both of said outlet flues, a hot air flue extending alongside said drying compartment, means establishing communication between said hot air flue and said drying compartment at a plurality of spaced points, and means for impelling a flow of heated air through said hot air flue, the circulation of heated air being in a direction counter to the movement of the articles through said compartments and said circulated air being exhausted through both of said outlet flues, whereby the moisture laden air of said cleansing compartment is prevented from passing into or through said drying compartment.

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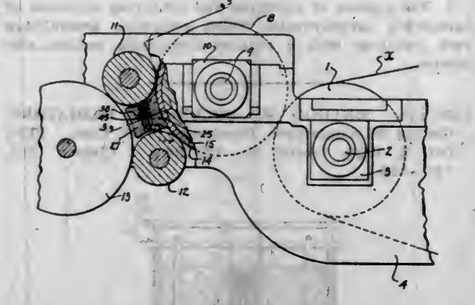
1,692,813. MANUFACTURE OF GLASS. EDWARD T. BROWN, Detroit, Mich., assignor to Ford Motor Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 16, 1920. Serial No. 358,979. 24 Claims. (Cl. 49—3.)



1. The method of manufacturing plate glass continuously consisting of allowing the molten glass to flow from the melting tank through a spout of substantially the width of the glass desired onto a moving conveyor, thence between the conveyor and a roller to reduce the glass to a predetermined thickness, thence through a leer to temper and harden the glass, thence between pulling devices which draw the glass through and out of the leer.



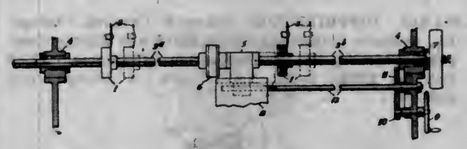
1,692,814. PRINTING PRESS. MARTIN W. BRUESHABER, Chicago, Ill., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed Apr. 20, 1923. Serial No. 633,399. 2 Claims. (Cl. 101—220.)



1. A rotary printing press including in combination a form cylinder, an impression cylinder, means for supplying ink to the form cylinder comprising an ink drum and two form rollers, and a member engaging medianly with the exterior of the form cylinder to insure true running thereof, said member being mounted in the space between the ink drum, form rollers and form cylinder so as to resist the major component of thrust from the impression cylinder.

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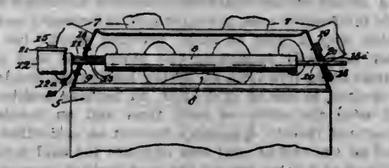
1,692,815. SLITTING MEANS. JAMES A. CAMERON, Brooklyn, N. Y., assignor to Cameron Machine Company, Brooklyn, N. Y, a Corporation of New York. Filed Sept. 21, 1927. Serial No. 220,870. 3 Claims. (Cl. 164—60.)



1. The combination with slitting means consisting of a plurality of sets of overlapping shears, of a plurality of shaft sections arranged and sustained end to end to support one of the members of each set of shears, and flexible coupling means between the shaft sections to admit of misalinement of said sections but not of disengagement of the members of the sets of shears from overlapping relation.

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1,692,816. HUMIDIFIER. EARL A. CHAMBERLIN, Cedar Rapids, Iowa. Filed Sept. 30, 1927. Serial No. 223,139. 4 Claims. (Cl. 126—113.)



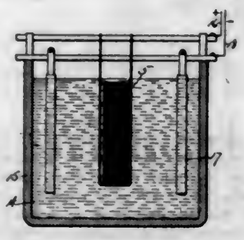
1. A humidifier, comprising a pan adapted for insertion in the upper part of a furnace jacket, means for supporting the pan, a plate carried thereby and adapted to close the opening for the pan in the furnace jacket, a valve-chamber formed with a trap open at its upper end, and serving as an outer receptacle for water, and a pipe connecting one end of the pan with said trap.

1,692,817. PROCESS OF TREATING CORN-SYRUP AND CORN-SUGAR LIQUORS. CLARENCE H. CHRISTMAN, Chicago, Ill., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 170,060. 20 Claims. (Cl. 127—40.)

1. The process of purifying and clarifying solutions of hydrolyzed carbohydrates which comprises neutralizing such solutions with a reagent comprising sodium aluminate.

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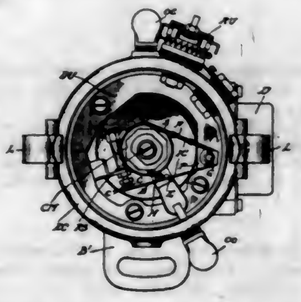
1,692,818. METHOD OF SOLDERING RADIATORS. GEORGE W. CHRISTOPH, Warehouse Point, Conn. Filed Oct. 2, 1926. Serial No. 139,096. 7 Claims. (Cl. 113—112.)



1. The process of securing members together which consists in assembling said members leaving pockets at the joints therebetween, applying a coating to the outer surfaces of said members and simultaneously filling the pockets with the coating material, and then removing the coating material until the surfaces of the members with the exception of said pockets are free of the material.

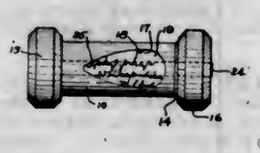
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1,692,819. DISTRIBUTOR. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1924. Serial No. 743,868. 4 Claims. (Cl. 200—30.)



1. A device of the character described including a rotatable interrupter cam, a nonperiodic interrupter member provided with a pair of arms, pivoting means for said member integrally formed at the junction of said arms, said arms being free from all spring tension, an insulating strip secured to one of said arms, an angular member integral with the other of said arms and an insulating strip secured thereto, a movable contact on said other arm located on the end of said arm opposite the said pivoting means and at a point beyond the said angular member and a stationary contact associated therewith, said insulating strips on said first arm and said angular member of said other arm engaging said cam in two places to cause said movable contact to move in and out of engagement with said stationary contact upon rotation of said interrupter cam, said cam comprising the sole means for causing the movement of said arms.

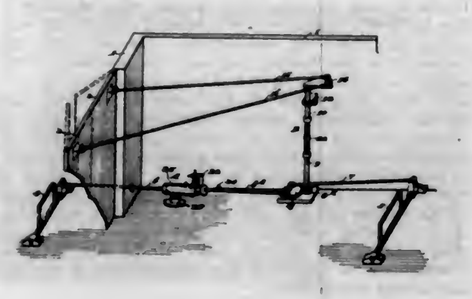
1,692,820. CARRIER FOR PNEUMATIC-DISPATCH SYSTEMS. WILLIAM HENRY DINSPEL, New York, N. Y., assignor to G. & G. Atlas Systems, Inc., New York, N. Y., a Corporation of New York. Filed June 15, 1926. Serial No. 116,242. 3 Claims. (Cl. 243—35.)



1. A carrier for pneumatic dispatch systems comprising a shell fitted with felt buffer members and open at one end, said shell being provided with a sight opening in the side wall thereof, and a looped spring member attached to the inner closed end of the shell and having its bowed outer end lying in the open end of the shell, whereby a slip of paper may be inserted between the spring member and the side wall of the shell to maintain the slip in display relation to the sight opening.

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1,692,821. DOOR-OPERATING MECHANISM. PERCY ROBERT DOBSON, Calgary, Alberta, Canada, assignor to Bell Equipment Company Limited, Calgary, Canada. Filed July 21, 1927, Serial No. 207,525, and in Canada June 30, 1927. 5 Claims. (Cl. 268—35.)

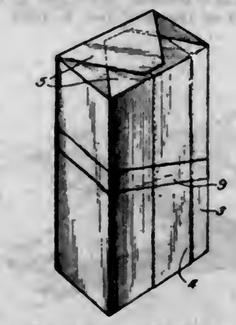


1. The combination with door operating mechanisms employing exterior and interior pivotal pedal members actuated by vehicle wheels, a divided shaft intermediate the exterior pedal member and the remaining mechanism, a rotatable sleeve engaging the divided shaft at the junction thereof, means of rotating the sleeve through the intersection of the portions of the divided shaft, the whole being so adapted that the position of the sleeve will unite the divided shaft, coordinating the motion of the exterior pedal with the door operating mechanism or alternately disunite the divided shaft making the motion of the exterior pedal ineffective.

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1,692,822. MANUFACTURE OF MOISTUREPROOF PAPER PACKAGES. HENRY G. ECKSTEIN, Chicago, Ill., assignor to The Cracker Jack Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 2, 1923. Serial No. 629,375. 5 Claims. (Cl. 93—2.)

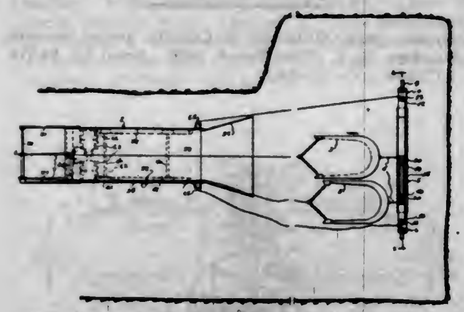
1. The method of moisture-proofing elongated, filled cartons, which consists in enfolding the same in paper wrappers, tightly sealing the folds of the wrapper, then separately immersing the opposite end portions of each package while sustained by an undipped portion in a bath



of melted paraffin, and, immediately after each immersion inverting the package to prevent excess drainage, substantially as described.

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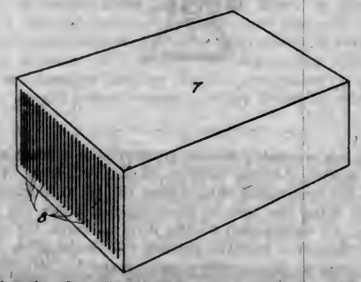
1,692,823. APPARATUS FOR HANDLING LOOSE MATERIAL. SIDNEY W. FARNHAM, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1926. Serial No. 128,753. 16 Claims. (Cl. 37—115.)



10. In a device of the character described, the combination of an inclined chute, a pair of scrapers, and means for alternately operating said scrapers on said chute in coincident paths.

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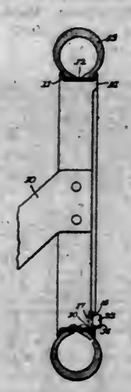
1,692,824. FILTER OR STRAINER AND METHOD OF MAKING THE SAME. WILLIAM H. FURNESS, National Park, N. J., assignor to Cellocilk Company, Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 1, 1925. Serial No. 53,800. 1 Claim. (Cl. 210—203.)



The herein described process of making a filter or strainer which consists in embedding a plurality of thin metallic sheets in a wax-like block, in shaving said block, in removing the wax-like substance from the metallic shavings produced and in baling the clean shavings.



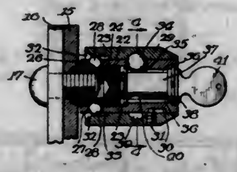
1,692,825. LOCK. WILLIAM GANZ, Chicago, Ill. Filed May 13, 1927. Serial No. 191,083. 2 Claims. (Cl. 70—122.)



1. In a device of the class described, a shield having two cylindrical bores arranged in parallel relation and a transverse bore connecting the cylindrical bores, a ball mounted in the transverse bore and having a diameter greater than the distance between the two bores, a lock mechanism in one of the bores including means for forcing the ball to project into the other bore.

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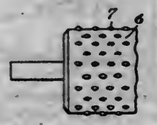
1,692,826. LOCK. WILLIAM GANZ, Chicago, Ill. Filed June 15, 1927. Serial No. 198,996. 5 Claims. (Cl. 70—122.)



1. In a device of the class described, a lock barrel having a longitudinal bore and a plurality of transverse bores extending through the wall of the longitudinal bore and of a diameter greater than the thickness of said wall, balls in said transverse bores, a sleeve slidable on the barrel and adapted in one position to force the balls to project into the longitudinal bore and means for locking the sleeve in that position.

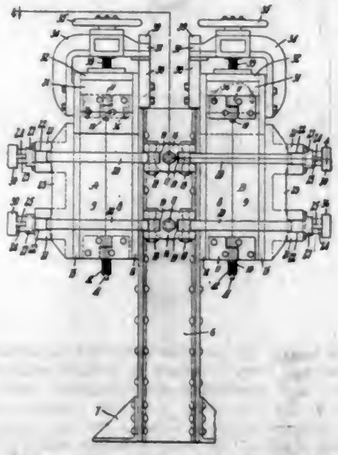
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1,692,827. WRINGER. VINCENT GEHRLEIN, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 1, 1926. Serial No. 112,885. 3 Claims. (Cl. 15—262.)



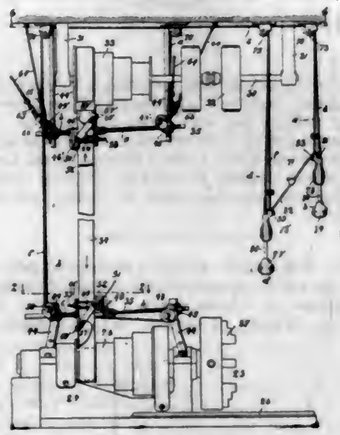
1. In a wringer, the combination of a frame; and rolls mounted in the frame, one of said rolls being a driving roll and having a central rod and a surrounding integral wall of comparatively soft rubber, the surface of the soft rubber being formed with protuberances, said protuberances being yieldable under the pressure of the wringer to approximately flatten out to the general contour, or surface of the wringer roll.

1,692,828. MOLD FOR RUBBER BOOTS. ALFRED A. GLIDDEN, Watertown, HOWARD G. ELLIS, Waltham, and HERBERT L. DAVIS, Walpole, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Aug. 23, 1927. Serial No. 214,941. 9 Claims. (Cl. 18—38.)



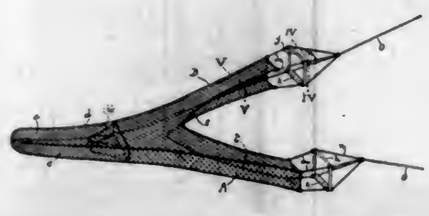
1. A mold for rubber boots and the like having, in combination, a standard, a forming plate for a side of the leg and foot portions of a boot rigidly fast to said standard, another forming plate for the other side of the leg and foot portions of said boot pivotally mounted upon said first-mentioned forming plate, an outer sole forming plate, and an expandible tree between the forming plates and co-operating therewith to form a boot.

1,692,829. CONE BELT SHIFTER. NILS E. GOODACTIVE, New York, N. Y. Filed Nov. 3, 1922. Serial No. 598,809. 25 Claims. (Cl. 64—4.)



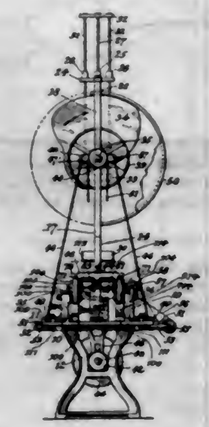
1. In a belt shifter of the character set forth, the combination with a pair of pulleys and a belt operating thereover, of shifter units co-operating with the belt adjacent to the respective pulleys, hand grip devices remote from the belt and located for movement in the same direction and in the same line, and cables extending from the belt shifter units to the respective hand grip devices, said grip devices constituting means for operating positively the cables independently of each other and in succession as a result of a single movement of the operator's hand in a single direction.

1,692,830. COMBINED SEINE NET AND BOTTOM DRAGNET WITH TRAPPING WINGS. CARL HANSEN, Esbjerg, and PAUL LETH, Copenhagen, Denmark; said Leth assignor to said Hansen. Filed Dec. 2, 1926, Serial No. 152,129, and in Denmark Dec. 3, 1925. 3 Claims. (Cl. 43—9.)



1. A combined seine and drag-net, comprising a net proper, trapping wings extending forward from said net and each having a top portion, a bottom portion and a side portion, and a stretching frame secured to the forward end of each of said trapping wings and adapted to maintain the wings approximately channel-shaped in cross section.

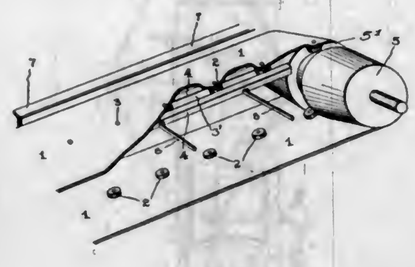
1,692,831. BOX-COVERING MACHINE. IRVING HANSHE, Brooklyn, N. Y. Filed Feb. 6, 1926. Serial No. 86,374. 4 Claims. (Cl. 93—54.)



1. A box wrapping machine comprising a box blank and cover carrier, folders, tuckers, strippers and a conveyor, means for controlling said carrier to permit an unretarded drop to make one fold, a dwell during which the tuckers operate, an unretarded second drop to make the end fold and to impart a positive upward movement after the box is delivered to the conveyor, and means for retracting certain of the folders, said retracting means comprising a frame, retracting cams thereon, a leaf spring normally moving said retracting means out of actuating position, and a cam bearing on said spring to deflect same to actuate said retracting means.

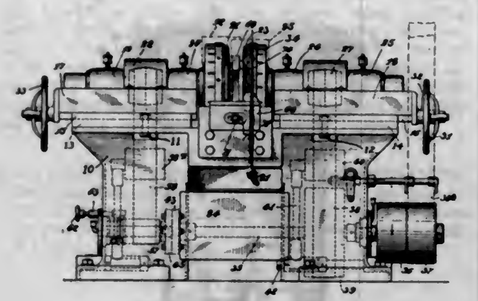


1,692,832. CONVEYER-BELT GUIDE. WILLIAM H. HARRISON, Paterson, N. J., assignor to Portable Machinery Company Inc., Clifton, N. J., a Corporation of New Jersey. Filed July 13, 1927. Serial No. 205,297. 4 Claims. (Cl. 198—202.)



1. In a device of the character described, the combination of a frame, an endless belt thereon, pulleys for said belt, guide lugs on the under side of the belt, and rails extending longitudinally of the belt and spaced to form a channel for said guide lugs.

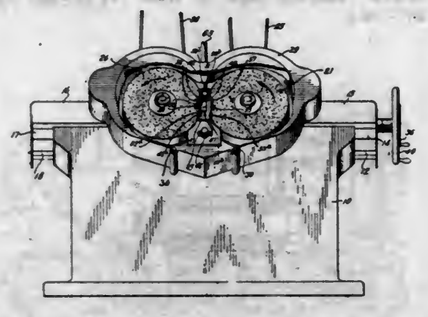
1,692,833. ROLL-GRINDING APPARATUS. LEWIS R. HEIM, Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 8, 1921. Serial No. 443,389. 16 Claims. (Cl. 51—116.)



1. In apparatus of the general nature of that herein described, in combination, a grinding wheel, a regulating wheel, a pair of telescoping hoods, one for each of said wheels for substantially enclosing said wheels, a carrier extending between said wheels for supporting cylindrical bodies in operative relation thereto, and means for adjusting one of said hoods toward or away from the other.

1,692,834. ART AND APPARATUS FOR PRODUCING GROUND ARTICLES. LEWIS R. HEIM, Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 17, 1923. Serial No. 619,597. 14 Claims. (Cl. 51—103.)

1. In apparatus of the character described, in combination, a grinding wheel, a regulating wheel rotatable at relatively low speed, said wheels being adapted to present operative surfaces traveling in opposite directions with respect to an intermediate point, and means positioned between the operative surfaces of said wheels for holding work of round section in operative relation to said two wheels and for guiding the work in an axial direction in a path making an angle with the horizontal equal to or greater than that at which gravity will feed the work along without a feeding component of either of said wheels.

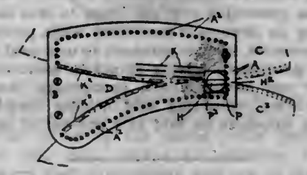


1,692,835. BIRD CAGE. NATHAN W. HENDRYX, New Haven, Conn., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Filed Sept. 1, 1925. Serial No. 53,903. 16 Claims. (Cl. 119—17.)



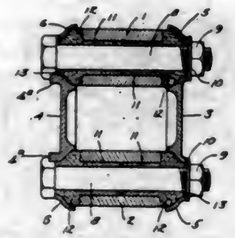
16. A bird cage, comprising an upper body portion and a lower base portion, and means to secure said members together, comprising a hook member swingably mounted to the body portion of the cage and comprising a U-shaped member bent in the form of a hook and a cam-shaped body portion, a slide secured to the bars of the cage and engaging the body portion of said hook to positively move it into and out of engaging position.

1,692,836. DABBING BRUSH FOR WOOL-COMBING MACHINES. PATRICK HENRY, Bradford, England. Filed May 12, 1927, Serial No. 190,729, and in Great Britain Feb. 25, 1927. 5 Claims. (Cl. 19—124.)



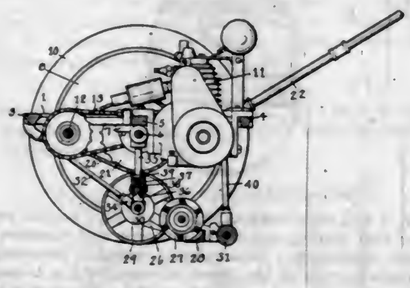
1. The combination with a dabbing brush provided with an air pressure dab at the tangent part of the two circles, of knives mounted between bristling to dab into the large circle, said knives acting as guides for the surplus air to distribute same over a large area of the dabbing brush.

1,692,837. OILLESS SPRING SHACKLE. RAYMOND HENRY, Rock Island, Ill., assignor, by mesne assignments, to O.-N. Spring Shackle Company, Davenport, Iowa, a Corporation of Iowa. Filed Jan. 15, 1926, Serial No. 81,384. Renewed Sept. 6, 1928. 14 Claims. (Cl. 267—54.)



1. A connection of the type described comprising a member having a cylindrical bearing, a bolt extending through said bearing, an elastic tubular bushing interposed between said bolt and said bearing, said bushing having a substantially frusto-conical head at its outer end, and means co-acting with said bolt to apply inward pressure to the inclined face of said head, to press the bushing tightly between the bolt and the bearing.

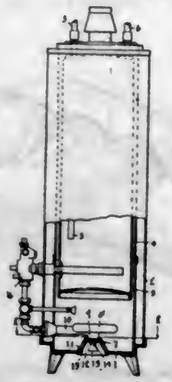
1,692,838. POWER LAWN MOWER. HERBERT S. HUMPHREY, Kalamazoo, Mich. Filed Dec. 16, 1924. Serial No. 756,229. 15 Claims. (Cl. 56—26.)



5. The combination of a main frame, an axle, carrying and driving wheels having ratchet connections to said axle, a driven sprocket on said axle, a motor mounted on said main frame at the rear of said axle, a jack shaft mounted on said main frame at the front of said axle, driving connections from said motor to said jack shaft, a sub-frame disposed below said main frame, a cutter unit on said sub-frame provided with a driven sprocket, driving connections from said motor to said cutter unit, carrying wheels for said sub-frame, draft bars pivotally mounted at the front end of said main frame and pivotally connected to said sub-frame, links connecting said sub-frame to said main frame for limiting its downward movement while permitting its upward movement, springs arranged to urge said sub-frame yieldingly downward, driving sprockets mounted on said jack shaft and having clutch connections thereto, and sprocket chains connecting said driving sprockets with said driven sprockets on said axle and cutter unit.

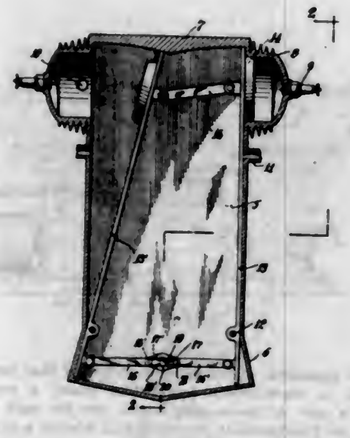
1,692,839. WATER HEATER. HERBERT S. HUMPHREY, Kalamazoo, Mich., assignor to Rudd Manufacturing Company, Pittsburgh, Pa. Filed Feb. 3, 1928. Serial No. 251,584. 5 Claims. (Cl. 126—350.)

1. In a water heater, the combination of a casing provided with a bottom having a raised conical central portion with side air openings therein, a burner seated on said raised portion and having a laterally extending Bunsen tube, a conical air inlet valve seating within said conical



raised portion of said bottom and having ports adapted to be brought into register with the air inlet openings of said raised portion, and an attaching screw for said burner constituting a supporting pivot for said valve.

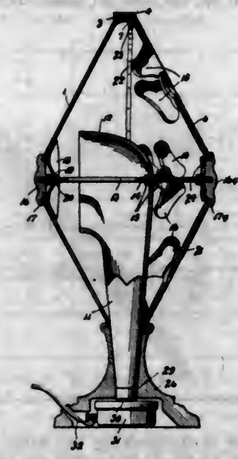
1,692,840. INTERNAL-COMBUSTION ENGINE. EMIL JUST, Bronx, N. Y. Filed Apr. 26, 1927. Serial No. 186,607. 1 Claim. (Cl. 123—18.)



An internal combustion engine comprising the combination with a chamber having means to produce a spark and inlet and outlet ports, of a pair of flat, rectangular levers pivotally mounted in said chamber, raised, conical piston heads on the ends of said levers, said levers being adapted to be oscillated by successive explosions in said chamber, a pair of shafts, and a crank lever system whereby power is transmitted from said levers to said shafts.

1,692,841. SOUND AMPLIFIER. JACOB KERSTEN, Allegan, Mich. Filed Mar. 22, 1926. Serial No. 96,410. 8 Claims. (Cl. 181—27.)

1. In a sound amplifier device, a hollow shell formed from two conical members having their base edges placed together, one of said members having sound emitting openings therein, means for binding said members together, an



amplifying horn located within said shell and extending through a side thereof and adapted to have a loud speaker device attached to its outer end.



1,692,842. METHOD OF MANUFACTURING BLACK-HEART MALLEABLE CAST IRON FROM WHITE CAST IRON. TARIO KIKUTA, Tobata City, Fukuoka Ken, Japan, assignor to Tobata Imono Kabushiki Kaisha, Tobata City, Fukuoka Ken, Japan, a Corporation of Japan. Filed Sept. 29, 1926. Serial No. 138,575. 2 Claims. (Cl. 148—13.)

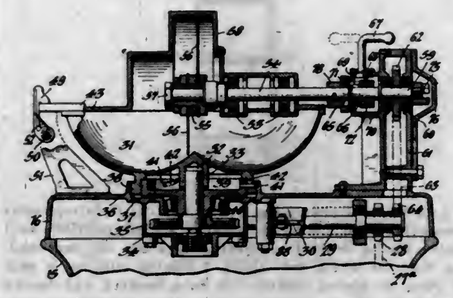
2. A method of manufacturing black heart malleable cast iron from white cast iron without using packing material which comprises first maintaining the white cast iron at a temperature between 850° and 950° C. for 15 to 60 hours, then cooling the iron to a temperature between 730° and 650° C., then maintaining the iron at the latter temperature for 20 to 50 hours, and then removing the iron from the furnace and cooling it rapidly.

1,692,843. TRANSOM-OPERATING MECHANISM. THOMAS EDWARD KING, Westfield, N. J., assignor to Hitchings & Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 2, 1925. Serial No. 34,384. 4 Claims. (Cl. 74—40.)



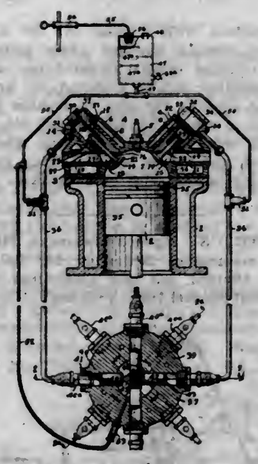
1. In a device of the character described an element comprising separable members provided with axial pintles, a closure for said element adapted to rotatively engage said members and resilient means supported by said pintles for forcing said separable members in close assemblage.

1,692,844. MEAT-CUTTING MACHINE. EUGENE W. KNOWLTON, Buffalo, N. Y., assignor to John E. Smith's Sons Co., Buffalo, N. Y., a Corporation of New York. Filed Sept. 14, 1925. Serial No. 56,141. 14 Claims. (Cl. 146—67.)



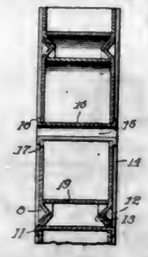
2. In a machine of the character described, the combination of a frame, a rotatable head mounted thereon, and a container having a depending flange engaging said head, the latter and said container-flange having complementary pins and slots for detachably holding the container on the rotatable head.

1,692,845. INTERNAL-COMBUSTION ENGINE. GEORGE A. KOLB, Bedford, Ohio. Filed Aug. 3, 1925. Serial No. 47,775. 16 Claims. (Cl. 123—90.)



15. In an internal combustion engine having inlet and exhaust valves, a piston connected to each valve, valve actuating cams driven by the engine crank shaft, pistons bearing on said cams, means for confining a body of liquid between each valve piston and one of the cam engaging pistons, and means for maintaining a predetermined volume of liquid in each body so confined comprising a supply tank communicating with each confined body of liquid, check valves preventing return flow to the tank, and means connected with the tank for supplying air under pressure to the tank above the body of liquid therein.

1,692,846. FILM REEL. JOSEPH LA VIA, Long Island City, N. Y. Filed Feb. 1, 1927. Serial No. 165,075. 7 Claims. (Cl. 242—70.)



1. A film reel comprising a pair of circular plates, means connecting said plates in parallel spaced relation, said plates having central registering openings the surrounding walls of which are inbent, a slotted bushing, a pair of discs in spaced relation on said bushing and means formed on the periphery of said discs adapted to confine and frictionally engage said inbent walls.

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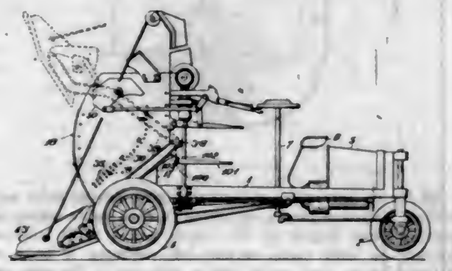
1,692,847. METHOD AND DEVICE FOR DISCHARGING CHLORINE FROM TANK CARS. WILLIAM B. LEACH, Jr., Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, New York, N. Y., a Corporation of Virginia. Filed Aug. 2, 1927. Serial No. 210,096. 1 Claim. (Cl. 105—358.)



In combination with a tank car for shipping liquid chlorine and similar liquefied gases including tankage therefor, air-drying means mounted on and carried by said car, coupling means mounted on and carried by said car and adapted for easy connection to and disconnection from a source of compressed air, a connection between said coupling means and the inlet to said air-drying means, and means for connecting the outlet from said air-drying means with said tankage.

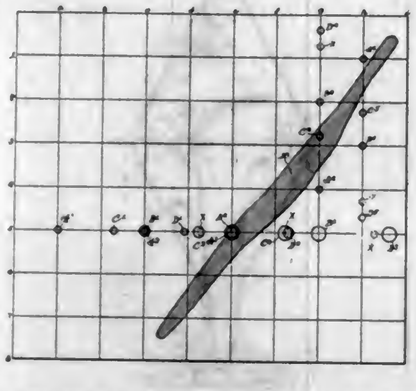
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1,692,848. TRUCK. GEORGE MANIERRE, Milwaukee, Wis. Original application filed Feb. 14, 1921, Serial No. 444,868. Divided and this application filed Mar. 17, 1924. Serial No. 699,766. 3 Claims. (Cl. 298—1.)



1. A load carrying box for vehicles having partition walls, the partition walls comprising portions fixed to the outer walls of the box, other portions movably attached to the fixed portions, and additional portions adjustable with respect to the movable portions and movable together with the same.

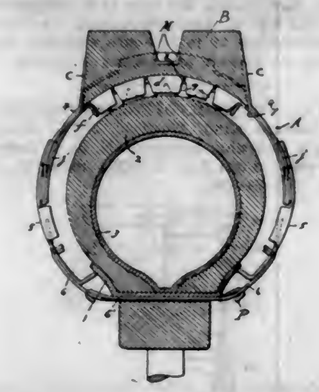
1,692,849. METHOD OF DETERMINING THE NATURE OF SUBSOIL. MAX MASON, Chicago, Ill. Filed May 3, 1926. Serial No. 106,188. 3 Claims. (Cl. 175—182.)



1. The method of determining the nature of subsoil, which consists in applying electromagnetic energy at two points of a given tract, fixing the position of a third point lying betwen said two points colinear with and spaced a predetermined distance therefrom, placing a fourth point also substantially colinear with the preceding three points and locating said fourth point at a distance from one of said other points so that there is a predetermined electrical relationship between said point and the fourth point, and noting the distances between the various points as an indication of the electromagnetic character of the subsoil.

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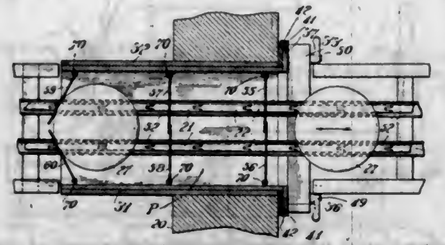
1,692,850. TIRE PROTECTOR. JOHN J. MCDONALD, Westview, Pa. Filed May 18, 1925. Serial No. 30,930. 2 Claims. (Cl. 152—16.)



1. In a pneumatic tire protector, an annular shield surrounding the same and comprising a plurality of sections arranged side by side, each section including a base member, a tread member arranged on the base member and including a substantially S-shaped intermediate portion, means arranged on the inner side of the base member and disposed to engage the tread of the tire for spacing the protector therefrom, means for attaching the section in an applied position and connected with said tread member, said means including interlocking straps, and interlocking cooperating means carried by the base member of one section and the tread member of the adjacent section, whereby said sections are connected together in overlapping relation.



1,692,851. CONVEYER PORT. JULIUS J. MOJONNIER, Oak Park, Ill., assignor to Mojonnier Bros. Co., a Corporation of Illinois. Filed May 17, 1926. Serial No. 109,720. 6 Claims. (Cl. 198—204.)

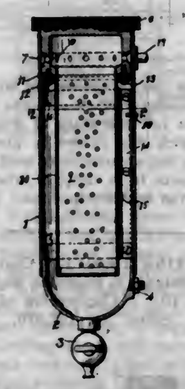


1. A structure of the class described comprising a wall, a tubular port structure extending through said wall and terminating at one end adjacent to one face of said wall, a frame about said port at said end, a metal bail extending along the sides of said frame at its lower ends and well above said frame at its top, an insulating door slidably mounted on said bail and movable above said frame to open said port and down to a position against said frame to close said port, and means for securing the upper part of said bail to said wall.

2. In a structure of the class described, a port, a pair of doors for closing said port, said doors being hinged near their outer edges and free at their inner edges, and a tension member secured at its ends to said doors, respectively, inward of their hinged points, whereby said doors are yieldingly held closed and are readily opened under pressure.

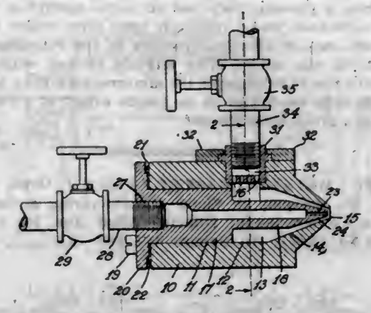
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1,692,852. OIL FILTER FOR ENGINES. FRED C. MORRIS, San Francisco, Calif. Filed Nov. 25, 1925, Serial No. 71,280. Renewed Apr. 25, 1928. 2 Claims. (Cl. 210—167.)



1. An oil filter for engines comprising a tube internally threaded at one end, a threaded cover for said tube, a screen tube fixed to said cover, a cloth cover for said screen adapted to be clamped to said threaded cover, a brush adapted to bear on said cloth, a flat spring ring at each end of said brush, said rings adapted to frictionally engage the inside of said tube, and a bell shaped member for the bottom of said tube.

1,692,853. LIQUID-FUEL BURNER. VERGIL MULHOLLAND, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed June 1, 1925. Serial No. 33,978. 11 Claims. (Cl. 299—119.)



1. A burner comprising a central fuel tube, a hollow member surrounding said tube, the said tube and the said member being formed to produce an annular air chamber surrounding said fuel tube, an air supply member mounted in said outer member and slidable transversely of the axis of said fuel tube, the said air supply member being provided with an air inlet port, and the said outer member being provided with a recess adjacent to said air supply member of such size as to permit the adjustment of said air inlet port between a position to project a stream of air substantially tangent to the said air chamber and a position to project a stream of air substantially radially with respect to said air chamber, means for supplying air to said inlet port, and manually operable means for adjusting the position of said air supply member.

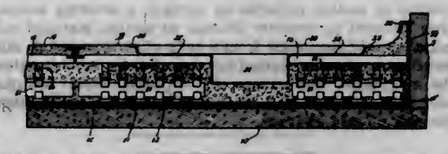
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1,692,854. PRODUCTION OF ANTHRAQUINONE COLORING MATTERS. WILFRED M. MURCH, Hamburg, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed Apr. 2, 1926. Serial No. 99,405. 7 Claims. (Cl. 260—31.)

1. In the production of an anthraquinone coloring matter by inducing a reaction between caustic alkali and an aminoanthraquinone body, the improvement which comprises conducting the reaction in a nickel iron vessel.

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1,692,855. SOUNDPROOFED SHOCK-ABSORBED LAUNDRY FLOOR. EVERETT N. MURPHY, Chicago, Ill., assignor to Stevens Partition & Floor Deadener Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 22, 1924. Serial No. 738,984. 20 Claims. (Cl. 20—6.)



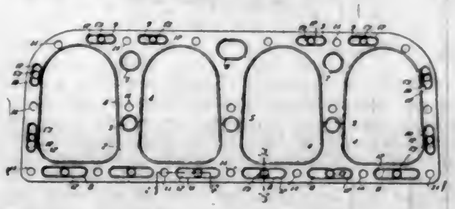
1. A sound-proof floor construction including an upper finishing floor divided into distinct, disconnected areas which are out of vibration transmitting contact with the walls of the room and which are supported on individual vibration deadening structures out of vibration transmitting contact with each other and the walls of the room.

1,692,856. PRODUCTION OF PLASTIC COMPOSITION MATERIALS. CLARENCE A. NASH, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 12, 1921. Serial No. 451,806. 20 Claims. (Cl. 260—5.)

1. A process of producing plastic composition material having as constitutents a condensation product binder produced from a phenolic body and an active methylene containing substance, and a relatively inert filler, which comprises the step of effecting reaction of the complete ingredients of the binder after mixture thereof with the filler and prior to molding of the mixture, such filler being added in such quantities as to enable arrest of such reaction at a given stage thereof.

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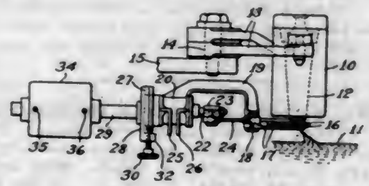
1,692,857. METALLIC GASKET. FRANK J. OVEN, Chicago, Ill., assignor to Victor Manufacturing & Gasket Co., a Corporation of Illinois. Filed Apr. 17, 1925. Serial No. 23,867. 10 Claims. (Cl. 288—1.)



1. A gasket having a metallic inner and outer layer and an intermediate layer of non-metallic material, the layers being provided with registering openings extending through the gasket, reinforcing rings with flanges inserted into said openings, and means for bracing opposite walls of said flanges.

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1,692,858. GLASS-WORKING APPARATUS. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Continuation of application Serial No. 24,988, filed Apr. 21, 1925. This application filed Dec. 7, 1926. Serial No. 153,093. 20 Claims. (Cl. 49—5.)

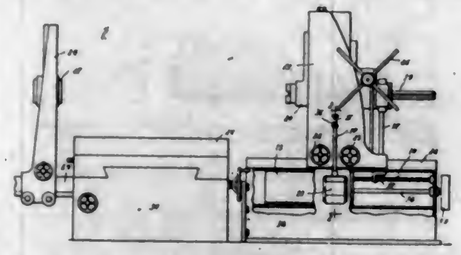


1. In combination with a receptacle for segregating charges of molten material by suction, a severing mechanism adapted to separate charges of molten material collected by said receptacle from a body of such material, said severing mechanism including shear blades spaced below the receptacle, and means for adjusting said severing mechanism toward and from said receptacle to regulate the size of said charges.

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1,692,859. CHANGE-SPEED-TRANSMISSION MECHANISM. JUEL L. PETERSON, Rockford, Ill. Filed Dec. 30, 1926. Serial No. 157,890. 47 Claims. (Cl. 74—59.)

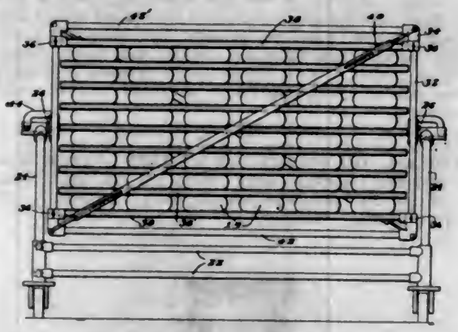
1. In a transmission mechanism the combination with a set of change-speed gears, of a selector shaft arranged to be rotated to different angularities for the selection of gear trains for different speeds, a knob for turning said shaft, means for indicating the speed selected, a single control lever mounted for swinging movement back and forth and transversely arranged when swung in one direction to move the selector shaft endwise, means operated by the endwise movement of said shaft for throwing the



selected gears into action, the return movement of said lever being arranged to cause the return of the selector shaft to throw the selected gears out of action, and clutching means operable in the transverse movement of said control lever to transmit drive to the selected gears.

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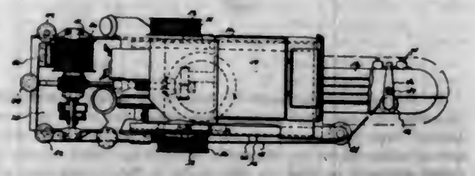
1,692,860. BREAD-MAKING APPARATUS. GUNTHER H. PETRI, Boston, Mass., assignor to The Petri and Jones Company, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 20, 1922. Serial No. 595,746. 3 Claims. (Cl. 107—7.)



3. Apparatus for use in connection with dough during the proofing comprising a stack of plane dough supports; a revolvable holder for said stack of dough supports and a frame upon which the holder is pivotally mounted; there being a cross bar attachable to said holder for maintaining said supports from slippage when said holder is rotated to invert the said stack.

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1,692,861. FLITTING DEVICE. CLARENCE F. POOLE, Evanston, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 25, 1926. Serial No. 157,010. 2 Claims. (Cl. 262—30.)

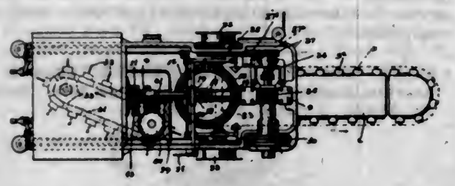


1. In combination with a cutting mechanism having a flexible draft feeding drum, an auxiliary flexible draft device comprising a transversely disposed shaft having a winding drum mounted thereon of greater rope capacity than said feeding drum, and means whereby said auxiliary flexible draft device may be bodily detachable from and connected with the rear end of said cutting mechanism within the vertical boundaries thereof and form therewith a continuous supporting shoe for engagement with the mine floor.



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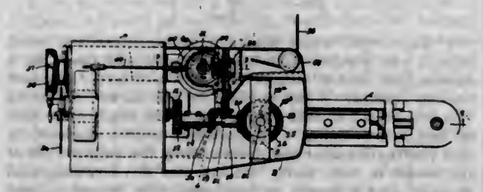
1,692,862. MINING MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1924. Serial No. 758,036. 4 Claims. (Cl. 262—30.)



1. A mining machine comprising a frame slideable on its bottom along a mine floor and having flexible draft means, a chain carrying cutter bar projecting forwardly of said frame, a motor rearwardly of said frame and cutter bar, an underframe vertically spacing said motor from the ground, and an endless conveyor extending from a point adjacent the rearward portion of said cutter chain rearwardly beneath said motor for conveying the cuttings discharged from said cutter chain from the rear end of said machine.

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1,692,863. MINING MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 26, 1924. Serial No. 758,037. 6 Claims. (Cl. 262—30.)

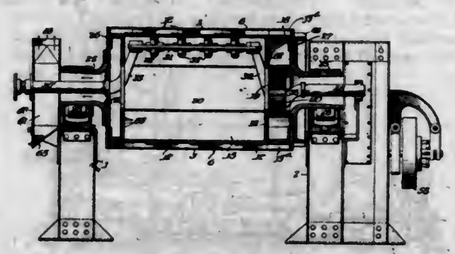


1. In a mining machine, a frame having a cutting element projecting longitudinally from the forward end thereof, flexible feeding and guiding means including a feed element operable on the forward end of said frame to move the same laterally during the cutting operation, a winding drum for said feed operating element located on the advancing side of said frame on a vertical axis and rearwardly of said cutter arm, a motor mounted rearwardly of said winding drum, and operative connections between said motor and said drum including a variable speed planetary device located concentric with and above said drum.

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1,692,864. SAND-BLAST MACHINE. ELMER A. RICH, Jr., and RAYMOND H. MOORE, Chicago, Ill. Filed Jan. 14, 1924. Serial No. 686,234. 3 Claims. (Cl. 51—13.)

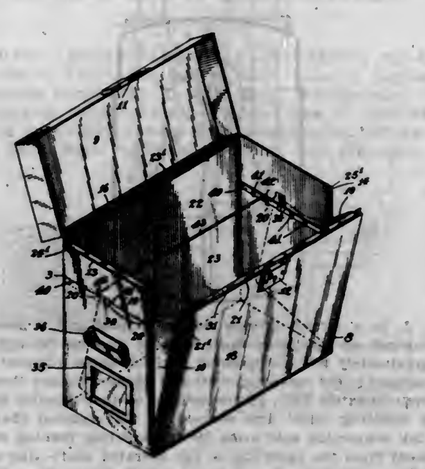
2. A sand blast machine comprising a rotary barrel provided with sand blast nozzles and feeding means for said nozzles at one end of the barrel, said feeding means comprising a sand reservoir located centrally at one end of the barrel and a sand blast pipe extending through the end of the barrel to said reservoir and thence to said nozzles, and means for collecting sand from the barrel and delivering it for reuse to said sand reservoir, said nozzles being interiorly arranged in the barrel and being supported in part by said air blast pipe and in part by



another supporting member extended to the other end of the barrel, said last mentioned end of the barrel having a tubular trunnion through which said supporting member extends, said tubular member being in communication with the interior of the barrel to permit escape of extraneous matters.

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1,692,865. FILING DEVICE. HERMAN S. RIEDERER and ARTHUR PAULSON, New York, N. Y.; said Paulson assignor to Christean Iverson, Inc., New York, N. Y. Filed Mar. 2, 1927. Serial No. 172,071. 9 Claims. (Cl. 120—43.)



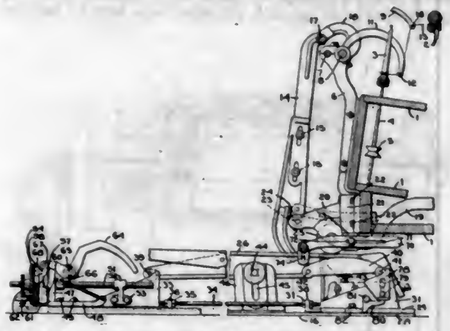
3. A filing device comprising a body portion, including a hinged front extension, and a cover, the body portion and the extension being provided with the inner walls in spaced relation to the outer walls thereof.

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1,692,866. BUNCH-BUILDING SPINNING MULE. SAMUEL F. ROCKWELL and JOSEPH W. RANDALL, North Andover, Mass., assignors to Davis & Furber Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed Feb. 9, 1925. Serial No. 7,787. 20 Claims. (Cl. 118—28.)

1. A spinning mule comprising a movable carriage, yarn receivers rotatably mounted thereon, means to move the

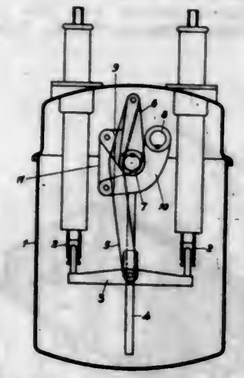
carriage forwardly to draw the yarn and rearwardly to wind the yarn on the yarn receivers, a faller on the carriage moveable to effect the required traverse of the yarn



during the winding operation, and means temporarily to retard the traverse movement of the faller, thereby to form a bunch on the yarn receiver during such retardation.

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1,692,867. LINK MECHANISM FOR CIRCUIT BREAKERS. DANIEL RÖNNBERG and ADOLF ROOTH, Ludvika, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Corporation of Sweden. Filed June 4, 1926, Serial No. 113,639, and in Sweden June 19, 1925. 2 Claims. (Cl. 200—150.)



1. In a circuit breaker having a fixed and a movable contact, an operating shaft adapted to turn through approximately 90°, an operated shaft mounted adjacent and parallel to the operating shaft and adapted to turn through approximately 180°, an arm secured on the operating shaft, a relatively short arm secured on the operated shaft, a link connecting said arms for transmitting turning movement from the operating to the operated shaft—the operating shaft being so disposed relatively to the path of movement of the said short arm that the latter may be swung freely through 180° by the said link without bringing the ends of the link and the operated shaft into locking or dead-center positions—, and connecting means between the operated shaft and the movable contact whereby rotation of the said shaft actuates the movable contact.

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1,692,868. ACOUSTICAL APPARATUS FOR TELEPHONIC COMMUNICATION. WILHELM RUDOLPH, Kiel, Germany, assignor to the Firm Signal Gesellschaft m. b. H., Kiel, Germany. Filed Aug. 25, 1921, Serial No. 495,236, and in Germany Sept. 27, 1920. 5 Claims. (Cl. 179—109.)

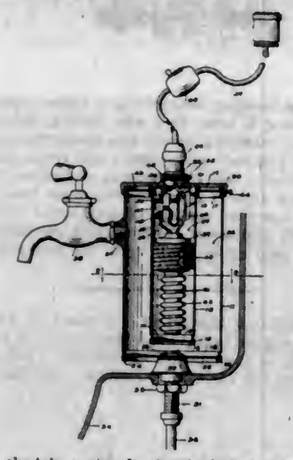
5. An electrical acoustical transmitter having a plurality of oscillatory structures, one structure including in combination a sound detector and a tuned resonating chamber having a definite resonating frequency, a second structure comprising a transmitter having a second definite resonant frequency means for mechanically coupling




said structures together, each structure having its masses and elastic members so proportioned that the two resonant frequencies of the acoustically coupled system lie just outside, on either side respectively, of the speech range of frequencies.

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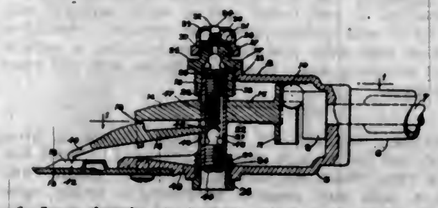
1,692,869. ELECTRIC WATER HEATER. CHESTER J. SCANLAN, Bloomington, Ill. Filed Oct. 23, 1925. Serial No. 64,309. 3 Claims. (Cl. 219—39.)



1. An electric water heater including inner and outer casings one providing a heating chamber and the other a surrounding water chamber, a socket disposed in said heating chamber, a core engaged in said socket, a heating element carried by said core for radiating heat to the wall of said inner casing, a thermostatic switch disposed in said heating chamber and controlled by the temperature of the water in said water chamber for de-energizing said element, and a length of insulating rope wound around said socket to frictionally coact with said inner casing for sustaining the socket and forming a heat resisting seal in said heating chamber between said heating element and said switch.

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1,692,870. SHEEP SHEARS. FRANK W. SCOTT, Kirkland, Ill. Filed Jan. 21, 1927. Serial No. 162,423. 12 Claims. (Cl. 30—1.)

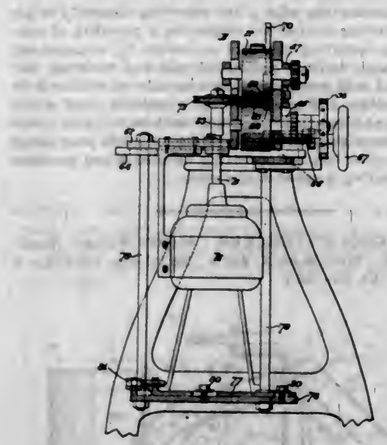


1. In a shearing tool of the character described, comprising a frame by which the tool is grasped for use, a fixed cutter comb on said frame and a reciprocating cutter cooperating with said comb, an actuator for said reciprocating cutter comprising two members of which the first is fulcrumed in said frame for vibratory action to reciprocate the cutter, and the second extends forwardly therefrom for engaging the cutter, the first member having an opening for receiving and supporting the second member whereby the latter is free to have endwise rocking movement to adjust its forward end in relation to the cutter so as to press the same toward the comb, and screw threading means mounted in the one member and engaging the other member positively to adjust the forward end of the second member toward the comb, the said means moving with the actuator and being independent of the frame so as not to tend to change in adjustment.



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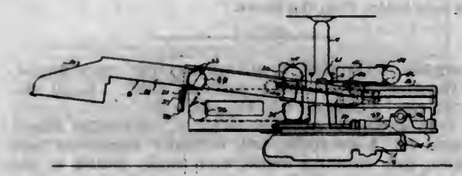
1,692,871. EDGE FINISHING. FREDERICK C. SIMMONS, Highland Park, Pa., assignor to Pioneer Suspender Company, a Corporation of Pennsylvania. Filed Aug. 26, 1926. Serial No. 131,589. 8 Claims. (Cl. 51—78.)



1. In an edge finishing machine the combination of a plurality of pairs of cooperating feed rollers for causing the movement of a strip of fibrous material in a definite path of travel, said pairs of cooperating rollers arranged in groups, so that one side edge of the strip will project laterally from the side margins of one group and the other side edge of the strip will project laterally from the side margins of another group, abrading elements operating upon the said side edges of the strip adjacent the cooperating pairs of rollers beyond which the side edges project and means for adjusting laterally one group of cooperating rollers with respect to another to suit the width of the strip operated upon.

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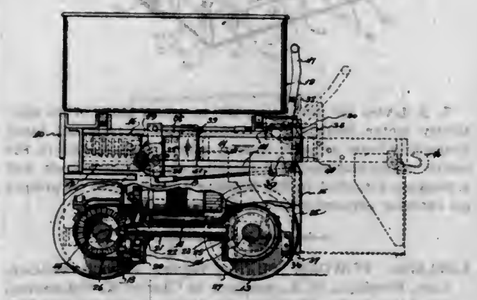
1,692,872. POWER SHOVEL. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 12, 1926. Serial No. 121,094. 19 Claims. (Cl. 214—132.)



1. In a power shovel, the combination of a frame, a scoop beam, a support member mounted on said frame for bodily movement longitudinally of said beam, elevating means reacting on said support member and carrying said beam for longitudinal movement with respect to said support member, and increasing movement means for effecting said movement of said support member with a greater corresponding longitudinal movement of said beam.

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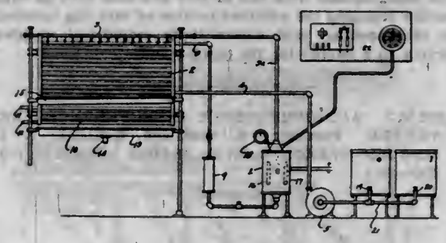
1,692,873. ELECTRIC LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 24, 1927. Serial No. 221,660. 6 Claims. (Cl. 105—50.)



1. A storage battery locomotive comprising a frame, supporting wheels and a motor for driving the same, a horizontally disposed controller for said motor adjacent one end of said frame having a horizontally disposed contact drum therein, and means for turning said drum from the opposite end of said frame comprising a lever and segmental gear.

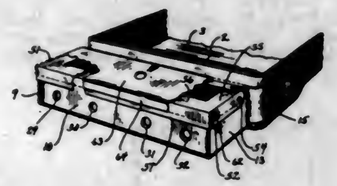
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1,692,874. APPARATUS FOR PASTEURIZING MILK. JOHN O. TEMPLETON, Detroit, Mich., assignor to Electropure Corporation, Detroit, Mich., a Corporation of Delaware. Original application filed Mar. 13, 1925, Serial No. 15,399. Divided and this application filed Jan. 6, 1926. Serial No. 79,632. 3 Claims. (Cl. 219—40.)



1. In apparatus for treating milk, a purifier having a pair of spaced electrodes, a current supply circuit therefor, a conduit for supplying liquid to the purifier to pass between the electrodes, a conduit for the discharge of liquid therefrom, a receptacle for milk and a receptacle for liquid having approximately the same electrical conductivity as milk, electrically controlled apparatus for causing the fluid to pass to the conduits and between electrodes, means controllable at will for supplying the milk or the liquid of the same electrical conductivity to said electrocally controlled apparatus, the said conduit leading to the purifier having a portion thereof in the form of a coil and the discharge conduit being arranged to discharge the treated fluid over the said coil, and means for causing cessation of operation of the apparatus when the temperature of the fluid or the milk in passing through the purifier falls below a predetermined temperature.

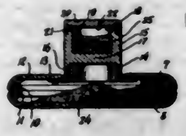
1,692,875. PROTECTIVE HOUSING FOR ELECTRICAL DEVICES. PHILIPP VANNINI, Zug, Switzerland, assignor to Landis & Gyr A.-G., a Limited Joint Stock Company of Switzerland. Filed Feb. 26, 1927, Serial No. 171,286, and in Switzerland Mar. 19, 1926. 9 Claims. (Cl. 171—34.)



7. A device for protecting the terminal block of an electricity meter including in combination a terminal block projecting from a meter casing, a housing fastened to the meter casing and partially encasing the terminal block, and a member attached to the housing and movable to protect an exterior exposed edge of the terminal block.

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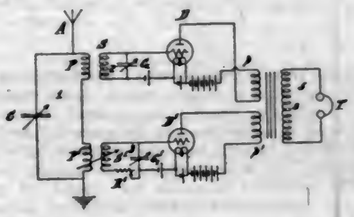
1,692,876. POWDER PUFF. HENRY GEORGE VOLCKENING, Brooklyn, N. Y., assignor to Charles K. Volckening, Brooklyn, N. Y. Filed Jan. 31, 1928. Serial No. 250,757. 8 Claims. (Cl. 132—78.5.)



1. In a powder puff the combination of a bag serving as a container and provided with an opening, a flat ring located within said bag and provided with a neck extended through said opening, said neck being threaded, and a substantially cylindrical member provided with a threaded portion engaging said neck and further provided with an edge portion engaging the adjacent portion of said bag bounded by said opening, said substantially cylindrical member serving as a handle for the powder puff.

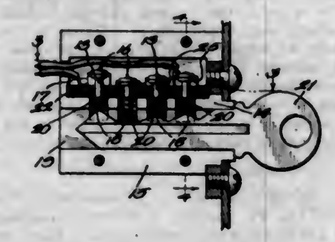
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1,692,877. AUDIOFREQUENCY INTERFERENCE PREVENTER. FREDERICK K. VREELAND, Montclair, N. J. Filed July 12, 1921. Serial No. 484,060. 6 Claims. (Cl. 250—20.)



1. In a receiving system for radiant energy, a collecting circuit, two or more tuned circuits associated therewith, one of which is preferentially responsive to signal impulses and the other tuned to a definite interfering signal frequency, integrating means associated with each circuit, means for applying the integrated currents differentially to a receiver, means whereby the interfering effects neutralize each other, and means for observing the unbalanced signal effect.

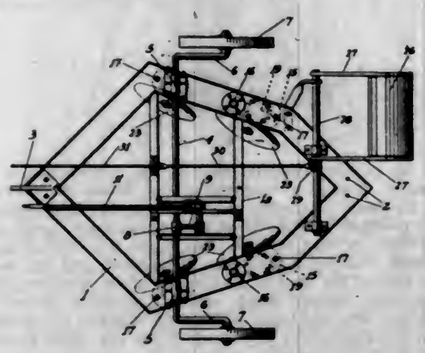
1,692,878. LOCKING MECHANISM. FELIX J. WATTS, Bronson, Mich., assignor to Harry A. Douglas, Bronson, Mich. Filed Mar. 7, 1927. Serial No. 173,585. 2 Claims. (Cl. 200—44.)



1. The combination with a key receiving element; of an electric switching mechanism employing a plurality of contacts having operating members accessible for engagement within the key receiving passage of said key receiving element, one of said contacts being normally constrained to a closed position and one to an open position; and a key having a ward formation engageable with one of said members to operate the contact pertaining thereto and being free of the other contact operating member when the first contact operating member is operated.

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1,692,879. GROUND CHECKER. ALONZO WILLEY, Stockton, Calif. Filed Sept. 7, 1926. Serial No. 133,812. 4 Claims. (Cl. 97—56.)



2. A checking implement comprising a frame to be drawn along the ground, horizontal and longitudinally extending plates under the frame on opposite sides of the longitudinal center line thereof, ground engaging members depending from the plates in opposed relation to each other, and pivot connection means between the plates and the frame to enable the plates intermediate their ends to be reversed in position to correspondingly reverse the setting of said members relative to each other without disconnecting said plates from the frame.

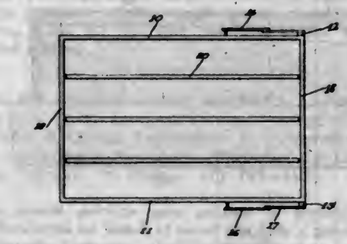
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1,692,880. CLOTHES-HANGING DEVICE. MAX WIRTH, Brooklyn, N. Y. Filed Sept. 28, 1927. Serial No. 222,425. 2 Claims. (Cl. 211—99.)

1. In a clothes hanging device, a rectangular frame, means for horizontally and vertically supporting said frame, rods spanning across said frame, pintles at the ends of said rods, said frame comprising side bars and end bars, said end bars having longitudinal channels therein, said pintles being movable slidable in said channels, notches in said end bars communicating with said channels, said pintles being registerable in said notches when said frame



is located horizontally, means for displacing said pintles out of said notches into said channels, comprising shifter bars, said end bars having longitudinal grooves extending parallel to said channels and at right-angles thereto, said grooves receiving said shifter bars, said shifter bars having cut-out portions adapted to align with said notches to permit entrance of said pintles, an inclined track bounding each cut-out portion on one side of the latter, said inclined track being adapted to ride across said notches to displace said pintles from said notches, and means for simultaneously moving said shifter bars in opposite directions in opposing end bars.



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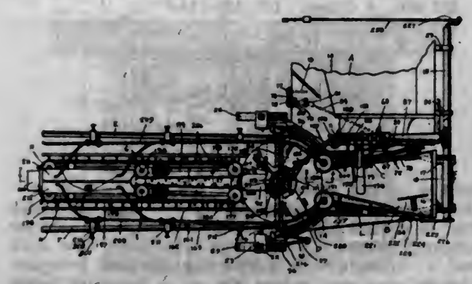
1,692,881. MOTOR VEHICLE. LEWIS A. WRIGHT, Birmingham, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 4, 1926. Serial No. 92,255. 6 Claims. (Cl. 267—21.)



1. In a motor vehicle, the combination with an axle and frame having side members, of a cross member extending beyond the sides of said side members, a housing comprising a stationary section fixedly mounted on and a movable section journalled on said cross member, a rubber block clamped between and having rib and groove connection with said housing sections, and an arm rigidly united to said movable section and having its outer end connected to the axle.

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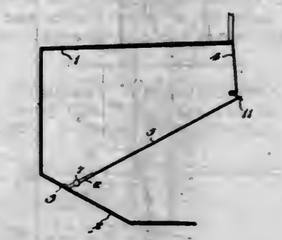
1,692,882. GRAIN SHOCKER. HERBERT E. WUNDERLICH, St. Paul, Minn. Filed Apr. 20, 1925. Serial No. 24,462. 20 Claims. (Cl. 56—416.)



4. A shocker for use in conjunction with a binder delivering bundles in a horizontal position, comprising a frame, a receiver mounted thereon having an upwardly curved bottom, an arm normally extending across said bottom situated near the center of curvature thereof, said arm having a pivot inclining from the vertical away from the curved portion of said bottom and operating in conjunction with said curved bottom to right the bundles.

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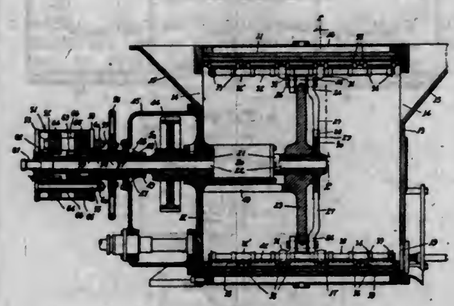
1,692,883. ENGINE-STARTING-SWITCH EXTENSION ATTACHMENT. ELLWOOD F. BENNETT, Blanton, Fla. Filed Jan. 24, 1928. Serial No. 249,133. 4 Claims. (Cl. 74—39.)



1. A motor vehicle starter attachment comprising a control element, a clamp therefor forming means for attaching the said control to the vehicle, a coupling adapted to be fitted to the starter button, and a rod forming connecting means between the said control element and coupling.

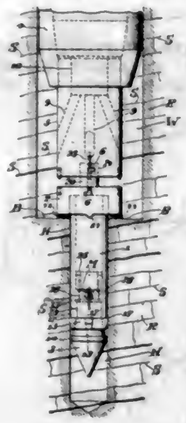
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1,692,884. CRUSHING, GRINDING, AND REFINING MACHINE. SWINFEN BRAMLEY-MOORE, White Plains, N. Y. Filed Apr. 6, 1928. Serial No. 267,992. 18 Claims. (Cl. 83—11.)



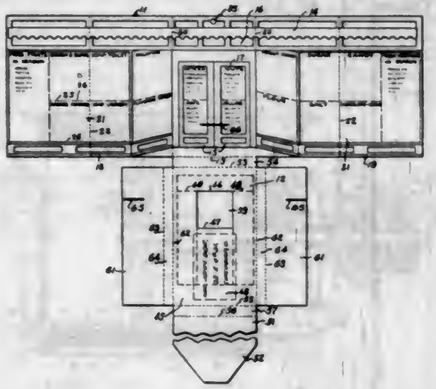
1. A machine of the character described comprising a cylindrical casing having a grinding surface therein, two shafts, a wheel on one shaft within the casing, levers carried by said wheel, a disk mounted on the other shaft and operably connected with said levers, grinding elements carried by said levers and working along said grinding surface, and means operably connecting said shafts for rotating one with the other and for adjusting them rotatably relatively to one another to swing said levers relatively to said wheel and regulate the pressure on said grinding elements.

1,692,885. SYSTEM OF DETERMINING CORE DIP. JOHN E. BRANTLY, Upper Darby, Pa., assignor to Atlantic Oil Producing Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 31, 1924. Serial No. 747,138. 21 Claims. (Cl. 33—205.)



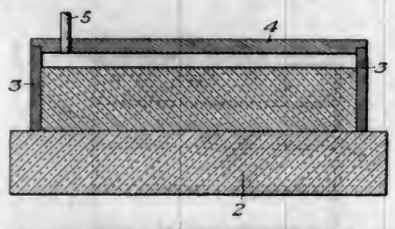
20. Apparatus of the character described comprising a casing adapted for insertion in a bore of substantially the same diameter as the casing, direction indicating structure in said casing and means for locking the same in direction indicating position, and means comprising a tapered plug for guiding the casing into said bore.

1,692,886. SALES CHART. JAMES FRANKLIN BROWN, Cincinnati, Ohio. Filed Apr. 22, 1927. Serial No. 185,798. 1 Claim. (Cl. 281—1.)



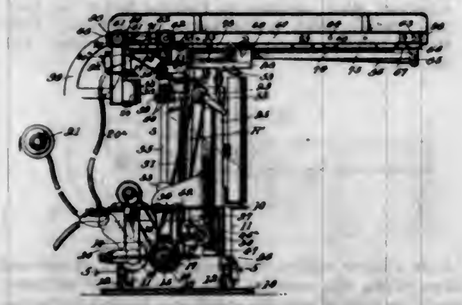
In a device of the character described, the combination of a transverse strip and a depending strip arranged at right angles to each other and each comprising foldable panels extending in the same direction when said device is open, said panels of said transverse strip foldable upon each other, said depending strip foldable endwise about said folded transverse strip with the panels of said depending strip encompassing the side edges of said folded panel of said transverse strip, said panels of said depending strip and a panel of said main strip thereunder when in folded relation provided with registering slits, and said depending strip provided with a tongue received in said slits for holding said folded panels in folded relation.

1,692,887. PROCESS OF AND APPARATUS FOR MAKING CLAY ARTICLES. ELBRIDGE J. CASSELMAN, Pittsburgh, Pa., assignor to Window Glass Machine Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Aug. 24, 1926. Serial No. 131,180. 6 Claims. (Cl. 25—156.)



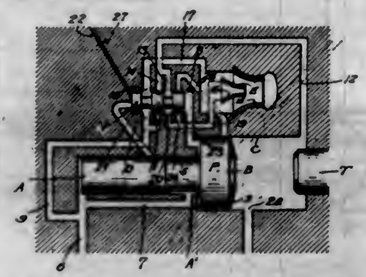

4. The process of making clay articles, which comprises confining a clay slip so as to define an article of the desired size and shape, materially retarding absorption of water from at least some of the faces of the formed article, permitting absorption of water from one face thereof, and varying the pressure on the slip.

1,692,888. MECHANICAL SHEET AND TIN PLATE CATCHER. DAVID G. DAVIES and FRED T. RUNDELL, Morgantown, W. Va. Filed July 28, 1927. Serial No. 208,977. 29 Claims. (Cl. 198—84.)



2. In a mechanical sheet and tin plate catcher, a conveyor frame, a receiving-conveyor mounted in said frame, a returning-conveyor also mounted in said frame, said conveyors travelling in opposite directions, a device for lifting the sheet from said receiving-conveyor, and means for periodically elevating the returning-conveyor to lift the sheet from said lifting device so as to convey it in a reverse direction.

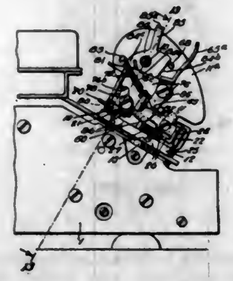
1,692,889. PNEUMATIC TOOL. ANDREW T. DUPONT, Washington, D. C. Filed Nov. 8, 1927. Serial No. 231,954. 4 Claims. (Cl. 121—18.)



1. In a fluid operated percussive tool, a cylinder having differential chambers, a piston having an enlarged head fitting in the larger of said chambers and a shank fitting in the smaller of said chambers, an ejector, means for connecting the ejector to the source of pressure fluid and to one side of the larger cylinder chamber, ports and passages for admitting pressure fluid to the cylinder chambers to operate the piston, a valve controlling certain of said ports and passages and the connection between the source and the ejector and between the ejector and the larger cylinder chamber and means controlled by the piston shank for reversing the valve at the end of each piston stroke.

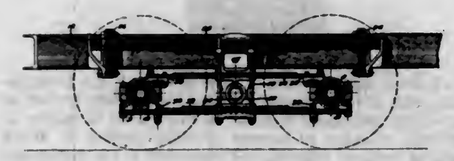


1,692,890. TYPEWRITING MACHINE. ALONZO B. ELY, Groton, N. Y., assignor, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y., a Corporation of New York. Filed Nov. 13, 1926. Serial No. 148,247. 26 Claims. (Cl. 197—193.)



1. In a typewriting machine, a spring-driven platen carriage, escapement mechanism for the carriage, a normally ineffective carriage-centering stop pivoted on the carriage to swing transversely of the path of travel of the carriage, a co-operating non-traveling stop on the machine, a manually rockable stop-setting cam pivoted on the carriage to swing about an axis parallel with the pivotal axis of the centering stop and adapted to directly rock the centering stop to effective position, escapement releasing means operable by the centering stop upon movement of said stop to effective position, and a spring connecting the centering stop with the carriage to normally hold the stop in ineffective position, said cam and spring-returned centering stop being so engaged when the stop is moved to set position as to hold each other against return movement.

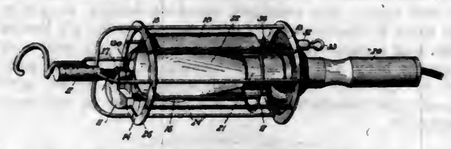
1,692,891. ROAD VEHICLE. ROLLIE B. FAGEOL, Los Angeles, Calif. Filed Apr. 23, 1923, Serial No. 633,867. Renewed Apr. 7, 1928. 7 Claims. (Cl. 280—124.)



1. In a road vehicle, a pair of substantially parallel axles; means interconnecting said axles comprising connections permitting universal movement of each of said axles with relation to said means; a bracket pivotally supported from the mid portion of said means; a leaf spring supported at its mid portion from said bracket; yielding connections supported from each end of said spring; and a frame supported from said yielding connections.

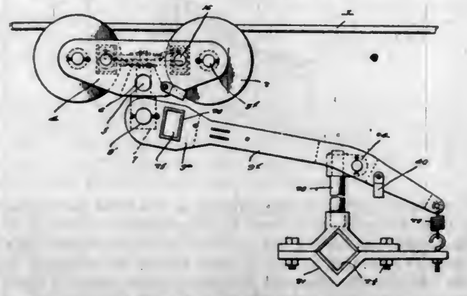


1,692,892. COMBINED REFLECTOR AND SHADE. WILLIAM J. FLOYD, Syracuse, N. Y. Filed May 16, 1927. Serial No. 191,829. 4 Claims. (Cl. 240—108.)



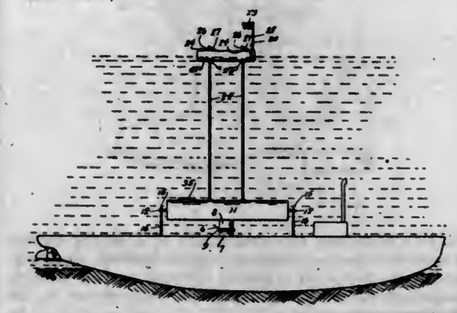
1. In a device of the character described, an open cage for an electric lamp; a shade mounted for oscillation within the cage; a counterbalanced weight connected to said shade to automatically maintain the same in its initial radial relation to the longitudinal axis of the cage while the cage may move relative to the shade; and means whereby the shade may be locked to the cage.

1,692,893. TROLLEY CONSTRUCTION. GUSTAV C. GUTZAT, Jersey City, N. J. Filed Jan. 31, 1927. Serial No. 164,821. 5 Claims. (Cl. 191—58.)



1. In combination, a sectional bracket lined with insulating material, a post on said bracket, a trolley arm swingable on the post about the axis thereof, said arm also swingable axially of the post, a retractile spring interposed between one portion of said arm and the bracket, and trolley wire engaging means carried by the opposite portion of the arm.

1,692,894. ESCAPE DEVICE FOR SUNKEN SUBMARINES. SILVIN G. HARRINGTON, Metz, Mo. Filed Mar. 10, 1928. Serial No. 260,786. 4 Claims. (Cl. 114—16.7.)

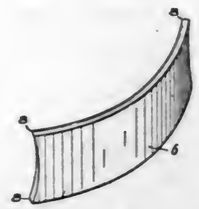


4. An attachment for submarines comprising a passenger carrying buoy releasably attached to the submarine and having an indicating means therebetween whereby to permit the crew of the submarine to enter said buoy, an air hose carrying buoy releasably attached to said carrying buoy, means operable from within said passenger carrying buoy for releasing either of the buoys from the submarine, said hose forming an air connection between said buoys, an intake pipe carried by said hose

carrying buoy, a control valve associated therewith, said air hose being wound circumferentially about the air hose carrying buoy when in attached position to the other of said buoys, and arranged, when so wound, to secure the valve in closed position with respect to the air intake pipe, and a signalling mast pivotally carried by said hose carrying buoy and normally secured in horizontal position by the hose when the buoy is attached to the submarine and releasable upon the unwinding of the hose therefrom.

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1,692,895. RAIL BOND AND METHOD OF MAKING THE SAME. WILLIAM F. HART, Pittsburgh, Pa., assignor to Verona Tool Works, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1926. Serial No. 99,683. 2 Claims. (Cl. 173—279.)



1. As an article of manufacture, a rail bond comprising a body of spring metal curved longitudinally throughout its length and having end portions cutaway substantially along the arcs of circles of large radius as compared to the width of the bond, for forming contact points of short length.

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1,692,896. ORTHOPEDIC SHOE. MATHEW HILGERT, New York, N. Y. Filed Filed Feb. 15, 1923. Serial No. 619,131. 12 Claims. (Cl. 36—71.)

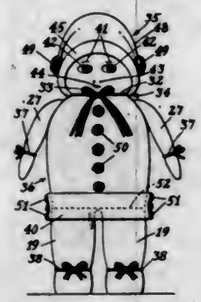


6. In a high shoe, the combination of a counter having an upward extension stiffened against bending longitudinally of the foot, and a tongue stiffened against bending transversely of the foot, said tongue being shaped to the transverse curve of the ankle and instep and adapted to be held thereagainst by the upper closing means.

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1,692,897. NONBREAKABLE DRESSED DOLL. LEE E. HOWARD and MARGUERITE E. HOWARD, Los Angeles, Calif. Filed June 17, 1927. Serial No. 199,497. 1 Claim. (Cl. 46—40.)

The method of forming a dressed doll out of a pair of socks which comprises cutting off the toe-portion of the first sock; slitting the ribbed-top portion thereof, longitudinally, front and back; sewing the cut edges of said ribbed-top portion to form two closed leg-tubes; stuffing said leg tubes, lower leg and heel parts, of said first sock, with flexible material, so as to form a suitably rounded body; closing the body opening by suitable stitching; cutting said cut-off toe-portion, longitudinally, into two equal parts, tapered at one end; sewing the cut edges of said equal parts to form arm tubes; stuffing said arm tubes with flexible material to a suitable roundness to represent arms; pulling the second sock over the head-end of said stuffed body until the heel portion of the former becomes stretched over the head end of the latter, so as to form a face thereon; folding the ribbed-top portion of said



second sock upwardly to form a roll about the legs of the stuffed body to simulate a coat; folding the toe portion of said second sock to form a tight-fitting hat on the head of the stuffed body with a roll rim encircling the face and neck thereof; attaching the arms to opposite sides of said second sock at suitable points to represent shoulders; tying colored material about the body, arms and legs of the resulting figure to mark off the head, hands and feet thereof; fastening tufts of like material to the hat and coat parts of the figure to form side rosettes on the former and to represent buttons on the sides and front of the latter, and embroidering, with colored materials, features on the heel part of said second sock which serves as the face of the figure.

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1,692,898. FEET FOR SANDING MACHINES. ELTON E. HUMMERICH, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed May 1, 1925. Serial No. 27,198. 19 Claims. (Cl. 51—189.)



13. In a machine of the class described, the combination with a reciprocating member; of a foot formed of an elastic, gelatinous material of substantial thickness inherently adhesive to present a sticky surface to which rubbing material adheres, and connected to the reciprocating member.

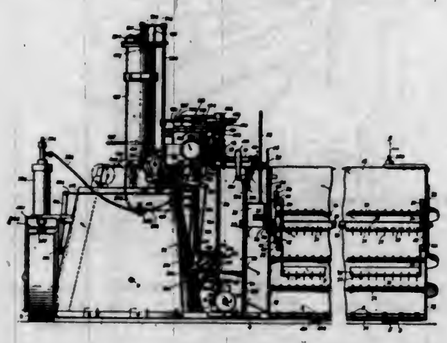
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1,692,899. HARVESTING MACHINE. PETER KETELSEN, Denver, Colo. Filed Nov. 22, 1923. Serial No. 676,343. 36 Claims. (Cl. 56—406.)

36. In a machine for uniting a plurality of sheaves each of which is bound with a loop of binding material, into an endless annular shock, a sheaf-holding magazine and a straw-tying device, reciprocatory means for imparting step-by-step rotation to said sheaf-holding magazine to



bring the sheaves held thereby into operative position with respect to said straw-tying device, said reciprocatory means being arranged to impart motion to said magazine on each stroke in one direction and having an idle return stroke, said straw-tying device including means for segregating a wisp of straw from one sheaf and holding



it during one step in the rotation of said magazine, means for tucking said wisp beneath the binding element of the adjacent sheaf, and means operated by said reciprocatory means for actuating the segregating means positively on the magazine-rotating stroke of said reciprocatory means and for positively actuating the tucking means on the idle stroke of said reciprocatory means.

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1,692,900. BASIC QUININE SOLUTION. ARTHUR LIEBRECHT, Frankfort-on-the-Main, Germany, assignor to the Firm Chemisch-Pharmazeutische Aktiengesellschaft Bad Homburg, Bad Homburg, Germany, a Corporation of Germany. Filed Jan. 17, 1928, Serial No. 247,450, and in Germany Nov. 4, 1925. 8 Claims. (Cl. 167—7.)

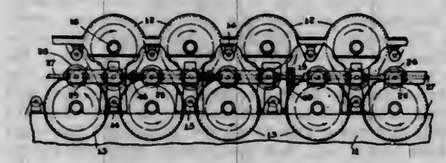
1. A method for making basic solutions of quinine comprising the step of mixing basic quinine with a quinine salt in the presence of water.

3. A method for making therapeutically utilizable aqueous solutions of basic quinine comprising the step of dissolving the quinine base in a solution of quinine salt under assistance of phenyldimethylpyrazolone.

7. As a new composition of matter an aqueous solution of basic quinine, quinine salt and phenyldimethylpyrazolone.

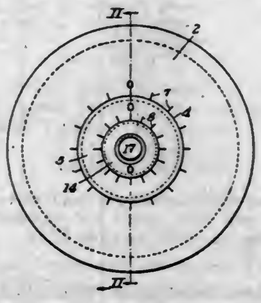
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1,692,901. DRIVE FOR PAPER-DRYING MACHINES AND THE LIKE. BERNARD A. MALKIN, Lachine, Quebec, Canada. Filed Nov. 27, 1925. Serial No. 71,809. 8 Claims. (Cl. 34—48.)



1. In a paper making machine, a frame, a plurality of upper and lower drier rolls secured to spindles rotatably mounted on said frame, toothed gear wheels secured to extensions of said spindles, toothed gear pinions meshing with the wheels and rotatably mounted on spindles secured to suitable bearings, a main driving shaft, extending the full length of the machine, bevel toothed wheels secured to said pinions and bevel toothed pinions mounted on the shaft and meshing with the bevel wheels to form a driving connection between the shaft and the toothed pinions.

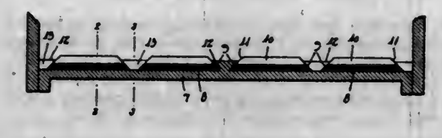
1,692,902. DIE AND METHOD OF DRAWING SHAPES. JAMES T. MOLTRUP, Beaver Falls, Pa. Filed Sept. 1, 1927. Serial No. 216,820. 9 Claims. (Cl. 205—26.)



1. In a drawing die, a die holder, a die ring adjustably mounted therein and having a bore eccentric to its periphery, and a die in said die ring having a bore eccentric to its periphery.

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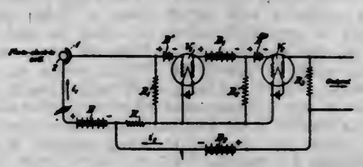
1,692,903. GRINDING, REFINING, AND MIXING MACHINE. SWINFEN BRAMLEY-MOORE, White Plains, N. Y., assignor of one-half to John McIntyre, Portobello, Midlothian, Scotland. Filed Oct. 15, 1927. Serial No. 226,375. 4 Claims. (Cl. 83—9.)



1. A device of the character described comprising a member having a groove, and rods of circular cross section seated side by side transversely in said groove to provide a ridged grinding surface, the ends of said rods abutting the walls of the groove, and said walls of the groove and ends of the rods being interengaged to hold the rods in the groove and to prevent rotation of the rods.

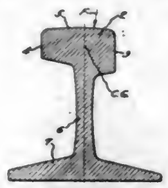
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1,692,904. AMPLIFICATION OF PHOTO-ELECTRIC CALL RESPONSE. RALPH K. POTTER, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 6, 1926. Serial No. 127,675. 8 Claims. (Cl. 178—5.)



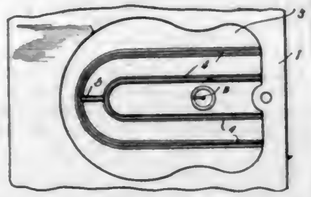
1. The method of amplifying the electrical response of a photo-electric cell to variation in the quantity of light impressed thereon, which consists in causing a variation of the cell current to produce a responsive current variation in an auxiliary circuit and causing said current variation in the auxiliary circuit to change the voltage across the electrode terminals of the cell so as to assist the variation of the cell current.

1,692,905. RUNNING RAIL. NORMAN C. RENDLEMAN, Pittsburgh, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 17, 1928. Serial No. 247,347. 9 Claims. (Cl. 238—125.)



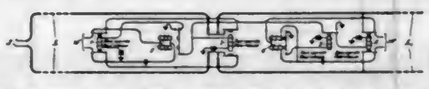
1. A running rail comprising a head having an inner face and an outer face, and a web disposed relatively nearer the inner face than the outer face.

1,692,906. VAPORIZING HEAT UNIT FOR INTERNAL-COMBUSTION ENGINES. WILLIAM G. SCHNEE, Kansas City, Mo. Filed Aug. 12, 1927. Serial No. 212,595. 1 Claim. (Cl. 123—191.)



A vaporizing heat unit for internal combustion engines having a plurality of U-shaped ribs having parallel side portions and bridging portions connecting the parallel portions at one end of the unit and having an opening for a spark plug between the parallel side portions nearer the end thereof remote from the bridging portions.

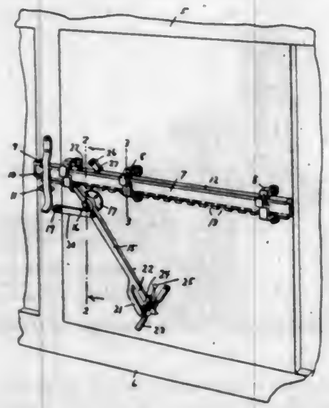
1,692,907. RELAYING ARRANGEMENT. SAMUEL P. SHACKLETON, Wyoming, and ARNOLD A. HANSEN, West Orange, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 22, 1926. Serial No. 150,064. 1 Claim. (Cl. 179—84.)



A transmission line comprising two line sections interconnected over the contacts of a cut-off relay, a bridge across one of said line sections including a signal responsive relay, means controlled by said signal responsive relay for operating said cut-off relay, a bridge circuit adapted to be connected across the other of said line sections by the operation of said cut-off relay, signal responsive means in said bridge circuit, means to complete a holding circuit for said cut-off relay directly over the contact of said last mentioned signal responsive means, and means controlled by said last mentioned signal responsive means for applying signaling current to said first mentioned line section.

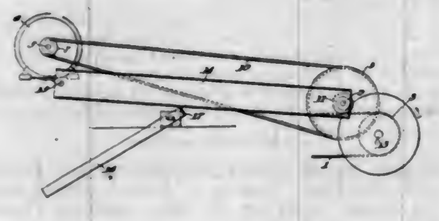
1,692,908. COMBINATION LOCKING BOLT AND OPENING AND CLOSING DEVICE FOR CAR DOORS. JOHN H. SIMONTON, Brighton, Tenn., assignor of forty-eight per cent to C. B. Simonton, Covington, Tenn. Filed July 25, 1927. Serial No. 208,361. 2 Claims. (Cl. 268—44.)

1. In combination, a slidably mounted door, a door jamb, a channel iron constituting a locking bolt slidably carried by the door and having a rack bar formed along one edge thereof, said jamb having means arranged thereon releasably engaging the bolt, a handle pivotally mounted intermediate its ends on the door and adapted to have one end moved into engagement with the rack



bar for slidably operating the same, means carried by the handle releasably engaging the handle with the jamb whereby to secure the handle against movement in one direction and means carried on the door releasably engaging the opposite end of the handle for securing the same against movement in an opposite direction.

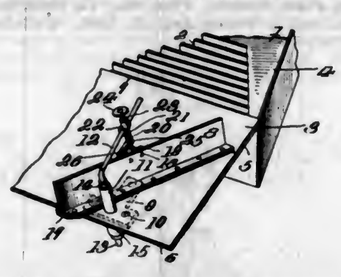
1,692,909. FRICTION DRIVE. RUSSEL W. STEM, Allentown, Pa. Filed Sept. 18, 1924. Serial No. 738,468. 3 Claims. (Cl. 74—21.)



2. In a friction drive, a power shaft, a driven shaft, an intermediate shaft, a belt drive between said power and intermediate shafts, friction wheels on said intermediate and driven shafts, a link having means at one end thereof for supporting said intermediate shaft, and a pivotal support for the opposite end of said link, said pivotal support being positioned at one side of a line joining said power and driven shafts and said link being of such length that said intermediate shaft lies on the opposite side of said line when said friction wheels come into engagement with normal load, and passes the said line when a predetermined degree of overload acts.

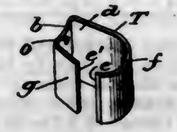
1,692,910. CUTTING FINGER FOR SEPARATING MACHINES. HENRY M. SUTTON, WALTER L. STEELE, and EDWIN G. STEELE, Dallas, Tex. Filed Feb. 8, 1928. Serial No. 252,852. 7 Claims. (Cl. 209—493.)

1. A cutting finger for separating machines comprising an apron, a support extending above said apron, a cutting finger adapted to have its lower edge held against the said apron, and means located on the said support for forcing



the lower edge of the finger against the apron and releasing it from the apron thereby enabling the finger to be adjusted as described.

1,692,911. TRIMMING TOOL. VERSAL V. VAUGHN, Los Angeles, Calif. Filed Nov. 1, 1926. Serial No. 145,495. 7 Claims. (Cl. 82—1.)



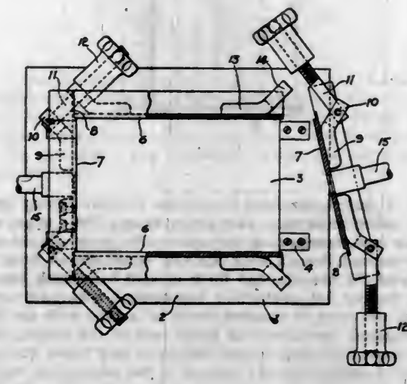
1. A terminal trimming tool including a supporting member, a tool formed of spring steel, attached to said member, and provided with spaced edges, one of said edges being a cutting edge, and a bearing portion transversely opposite said edges, for receiving and trimming a battery terminal, as described.

1,692,912. HEEL-ROUTING MACHINE. PEARL J. WENTWORTH, Fort Thomas, Ky. Filed Dec. 21, 1926. Serial No. 156,207. 1 Claim. (Cl. 144—134.)



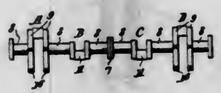
In a routing machine, a head stock, a spindle journalled in and extending through said head stock having a pulley on one end and a cutting tool removably secured into the opposite end, a table disposed transversely to the tool carrying end of the spindle having a stem extending therefrom slidably secured to the head stock, the cutting tool extending through an opening in the table and above the work supporting surface thereof, the table adjustable relative to the cutting tool for governing the cutting depth of the tool, and a guiding member slidably mounted upon said table adjustable relative to the cutting tool and carrying a pair of rollers disposed relatively at opposite sides of the axis of the cutting tool for edge engagement with the work, adapting a face of the work to be routed correspondingly to an outline of the work and within the edge of the work to a degree governed by the spacing of the rollers from the cutting tool.

1,692,913. MOLD. WILLIAM GILES WHITING, Vancouver, British Columbia, Canada. Filed May 10, 1927. Serial No. 190,289. 1 Claim. (Cl. 25—121.)



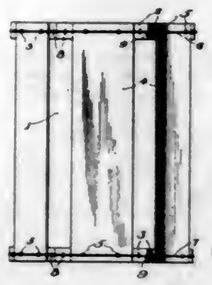
A mold for artificial stone and the like including a plurality of side walls adapted to be assembled in rectangular formation, and means for securing said walls together comprising a pair of horizontally extending lug plates attached to the outer surface of each wall adjacent opposite ends of the wall, the outer end of each lug plate being offset from the face of the wall at an angle equal to half the angle of the intersection of adjoining side walls and being projected beyond the adjacent end of the wall to which said lug plate is attached, the offset ends of certain of said lug plates having slots formed therein, bolts hingedly secured to the offset ends of the remaining lug plates and adapted to be engaged in said slots and nuts mounted on said bolts.

1,692,914. COUNTERBALANCING SYSTEM FOR ENGINES. RUDOLPH WINTZER, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 22, 1927. Serial No. 185,832. 6 Claims. (Cl. 74—38.)



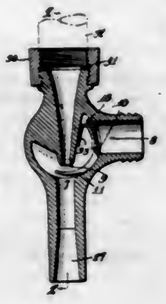
1. In an engine, the combination of a crank shaft having four cranks, which considered successively along the length of the shaft, are spaced each 135° angularly from the next, whereby the two end cranks are at 45° with each other; piston and connecting rod units of substantially uniform mass, one connected with each crank; and a pair of counterweights of substantially identical mass with one another mounted on said crankshaft near the ends thereof, and approximately opposite the end cranks, the centers of mass of said counterweights lying in a plane which bisects the angle between the end cranks.

1,692,915. CRATE. STANLEY O. WOOD, Kenova, W. Va., assignor to The Kenova Box Company, Kenova, W. Va. Filed May 18, 1927. Serial No. 192,363. 2 Claims. (Cl. 217—49.)



1. A crate comprising companion sections having upper and lower cross bars and strips having their upper and lower ends overlapping the outer side faces of said bars and secured thereto with the side edges spaced from the ends of the bar, the end faces of said bars being beveled and having flat contacting engagement with each other when the crate is disposed about an article with the bars overlapping the upper and lower ends of the article, binding wires extending across the upper and lower end portions of said strips and secured in flat contacting engagement with the extended end portions of said cross bars, said wires constituting pliable means connecting said sections and serving to reinforce the ends of the strips and having extended end portion adapted to be joined together to retain the crate about an article in protecting relation thereto.

1,692,916. EJECTOR. ASA ALLEN WOODRUFF, Philadelphia, Pa. Filed Jan. 4, 1927. Serial No. 158,858. 3 Claims. (Cl. 103—262.)



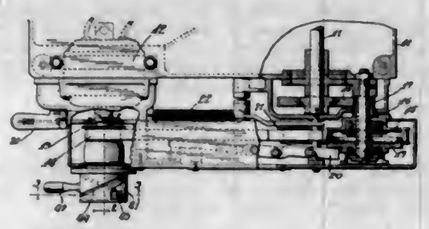
1. An ejector having a suction chamber, a jet nozzle discharging into said chamber, a discharge passage from said chamber, a suction inlet connected to said chamber and operatively arranged in respect to said nozzle, and a movable primer element arranged in the chamber and adapted in normal position to overlie the nozzle and in abnormal position to clear the nozzle, and said primer element disposed opposite the suction inlet in position to be moved by the fluid discharge from said inlet into abnormal position.

1,692,917. GRADUAL-CLAMPING CLIP FOR BRACES, SOCK SUSPENDERS, AND SUCH LIKE. PAUL ALENIC, Paris, France. Filed Mar. 12, 1926, Serial No. 94,164, and in France Aug. 13, 1925. 4 Claims. (Cl. 24—251.)




4. A clasp of the character described comprising a stationary jaw, a movable jaw intermediately pivoted to the stationary jaw, a roller at one end of the movable jaw, and a cam member movable within the stationary jaw and engaging the roller of the movable jaw for forcing the movable jaw towards the stationary jaw.

1,692,918. DRIVING MECHANISM FOR SLICING MACHINES. RUDOLPH BACHMAN, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a Corporation of Indiana. Filed Apr. 14, 1923. Serial No. 632,046. 6 Claims. (Cl. 74—21.)



1. Driving mechanism comprising a pulley having a belt arranged to travel thereon, an expansion sleeve surrounding said pulley and movable in the direction of the axis thereof into and out of position between the driving face of said pulley and said belt, said sleeve having a convex face and a beveled edge for entering beneath the edge of said belt, and a rotary cam- co-axial with said pulley for moving said sleeve in the direction of the axis of said pulley.

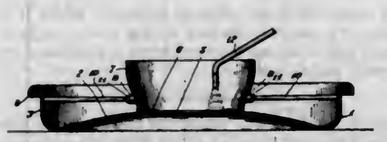
1,692,919. DISK-DRILL BIT. WALTER C. BAILEY, Norwalk, Calif. Filed Mar. 17, 1924. Serial No. 699,805. 12 Claims. (Cl. 255—71.)



1. In a rotary disk drill bit, the combination of: a body rotatable about its vertical axis and having a central depending leg; two rotatable cutting disks supported entirely by and mounted on opposite sides of said leg and transversely offset relative to each other in opposite directions from the vertical axis of the body, each disk being in advance of said leg in relation to the cutting rotation thereof; and an independent supporting bearing pin for each disk, each bearing pin extending entirely through said leg.

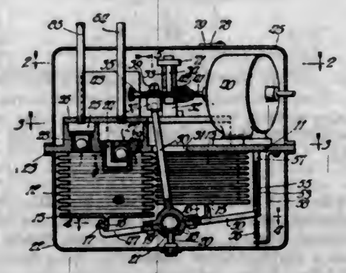


1,692,920. MEANS FOR DECORATING ARTICLES. ERLE K. BAKER, Chicago, Ill. Filed Dec. 29, 1924. Serial No. 758,569. 4 Claims. (Cl. 91—65.)



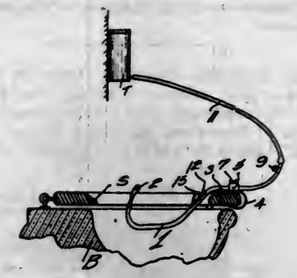
4. A device of the kind described embodying therein a tubular shaped guide member wider at one end than the other and open at both ends, and a plurality of radially outward arms on said guide member, longitudinally adjustable with respect thereto.

1,692,921. PUMPING AND METERING APPARATUS. THOMAS A. BANNING, Jr., Wilmette, Ill. Filed Oct. 13, 1926. Serial No. 141,309. 6 Claims. (Cl. 103—148.)



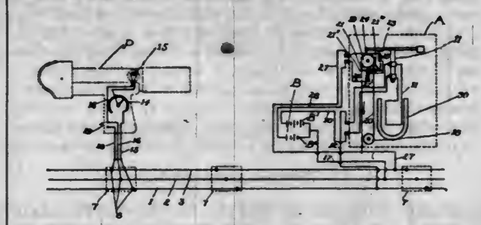
1. In a liquid displacement apparatus the combination of a base plate having curved inlet and discharge channels on its top face, a cover plate covering over said channels and sealing them, inlet and discharge pipes in connection with the channels, a plurality of expansible chambers located around a common center and having their upper ends secured to the base plate beneath the position of the channels aforesaid, means for sealing the lower ends of said chambers, inlet and discharge check valves in the base plate between the channels and the upper ends of the chambers, a cup enclosing all of the chambers and having its upper edge secured to the bottom of the baseplate, a ball projecting upwards from and supported by the center of the cup, a tilting member mounted upon said ball with a ball and socket joint and adjacent to the lower ends of all of the chambers, operative connections between said member and the lower ends of all of the chambers, there being a central opening in the base plate, an operating stem extending upwards from the tilting member through said opening, and means for moving said stem with a gyratory motion comprising a vertical stub shaft above the base plate, a disk on the lower end thereof, a ball and socket joint connection between the disk and the upper end of the stem, and means for driving the disk, substantially as described.

1,692,922. SYRINGE. LUDWIG C. BERG, Tacoma, Wash. Filed Feb. 16, 1928. Serial No. 254,666. 4 Claims. (Cl. 128—227.)



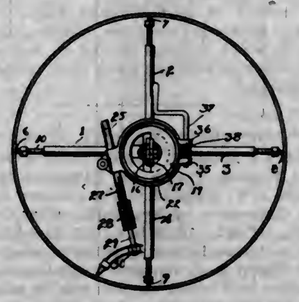
1. The combination with a rigid tube having a nozzle and a bearing head thereon, of an adjustable bushing on the tube and retaining means therefor, a resilient clamp hook on the bushing for co-action with the bearing head, a valve in the tube and a hose connected to the tube for the purpose described.

1,692,923. RECORDING OPTICAL PYROMETER. OSWALD H. BLACKWOOD, Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 2, 1924. Serial No. 729,686. 2 Claims. (Cl. 234—11.)



2. In combination, an electrical measuring instrument provided with means to make a record on a chart, a single, portable, optical pyrometer connected in circuit with a source of energy to control the extent of movement of the measuring instrument to correspond to the temperature of a flue being tested; and means operable at a point adjacent said pyrometer to cause said instrument to make a record for each manipulation of said latter means.

1,692,924. BURNER HOLDER. HUGH F. BROWN, San Francisco, Calif., assignor to Brown Brothers Welding Company, a Partnership, San Francisco, Calif. Filed May 19, 1926. Serial No. 110,068. 7 Claims. (Cl. 266—23.)

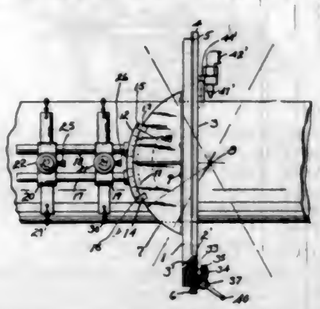


5. A pipe cutting burner holder comprising means to mount a burner in the end of a pipe to be cut off, means to

revolve said burner with its flame against the inside surface of the pipe, and means to cause the burner to travel in a path to cut the pipe off at an acute angle to the axis of the pipe, and means to change the angle of the path of travel of said burner.

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1,692,925. BURNER HOLDER. HUGH F. BROWN, San Francisco, Calif., assignor to Brown Bros. Welding Company, San Francisco, Calif., a Partnership consisting of Hugh F. Brown and William P. Brown. Filed Aug. 29, 1927. Serial No. 216,071. 4 Claims. (Cl. 266—23.)



2. A burner holder of the class described comprising a fixed ring, a rotatable ring mounted on said fixed ring, a torch holder projecting from the side of said rotatable ring, a segment plate projecting from said fixed ring on the opposite side from said torch holder, a curved flange projecting downward from said plate, a bracket having a groove adapted to receive said flange and allow it to turn therein, means to mount said bracket on a pipe to be cut whereby said rings will be placed concentric of said pipe, and means to rotate said rotatable ring with the burner holder thereon.

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1,692,926. PROCESS OF MAKING TETRA-ALKYL LEAD. WILLIAM S. CALCOTT, Penns Grove, and HERBERT W. DAUDT, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 15, 1927. Serial No. 226,514. 25 Claims. (Cl. 260—11.)

1. In the process of making tetra-alkyl lead from a lead alkali metal alloy and an alkyl chloride, the improvement which comprises the progressive addition of the alloy to the alkyl chloride.

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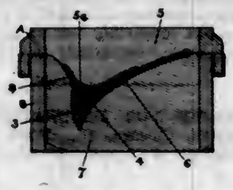
1,692,927. MANUFACTURE OF BENZOATES. WILLIAM S. CALCOTT and HERBERT W. DAUDT, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 13, 1924, Serial No. 737,608. Renewed Feb. 27, 1928. 5 Claims. (Cl. 260—108.)

1. The method of manufacturing undiscolored water soluble white benzoates from crude benzoic acid made from phthalic acid which includes heating an aqueous solution of the benzoate with sufficient alkali metal permanganate to oxidize impurities.

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1,692,928. DENTURE, PARTIAL DENTURE, AND METHOD OF MAKING SAME. GEORGE WOOD CLAPP, RUSSELL WILFORD TENCH, and LAWRENCE W. DUNHAM, New York, N. Y., assignors to The Dentists' Supply Company, a Corporation of New York. Filed Oct. 3, 1922. Serial No. 592,021. 10 Claims. (Cl. 32—4.)

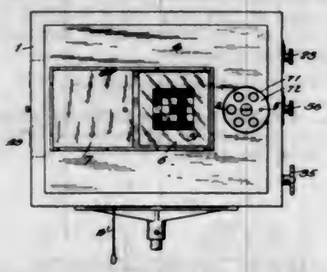
1. A set-up for use in making dentures, comprising a plurality of artificial teeth arranged in predetermined curved row formation and bound together side by side by a vulcanizable pliable material only partly vulcanized and capable of being incorporated into the finished vulcanite plate, said binder having a greatly smaller cross sectional area than that required by the plate in the finished denture in which the set-up is to be used, whereby it temporarily holds said teeth in relative positions and permits of



them being relatively adjusted while the set-up is used in making of a complete denture, and in which the partly vulcanized pliable binder material forms a portion of the final vulcanite plate thereof.

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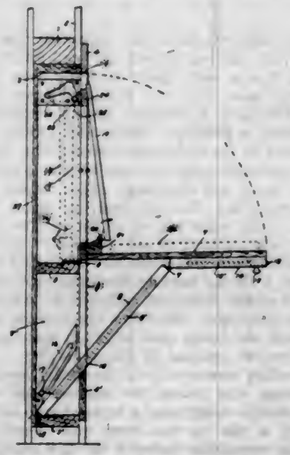
1,692,929. OPTICAL TEST CHART. HANS CLEMENT, New York, and ELMER LE ROY RYER, Hawthorne, N. Y., assignors to General Optical Co., Inc., a Corporation of New York. Filed Mar. 24, 1924. Serial No. 701,340. 28 Claims. (Cl. 88—20.)



1. An optical test chart comprising a casing provided with a front observation opening, a chart carriage within the casing movable toward and from the opening, and charts on the carriage shiftable into and out of line with the opening.

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1,692,930. FOLDABLE SERVICE BOARD. EARLE W. CUMMINGS, Santa Barbara, Calif., assignor of one-half to Santa Barbara Lumber Company, Santa Barbara, Calif., a Corporation of California. Filed June 17, 1925. Serial No. 37,704. 5 Claims. (Cl. 45—51.)

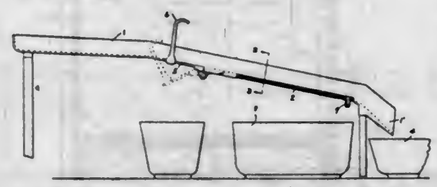


1. In a wall recess cupboard having front and rear walls and a bottom, a service board hinged to the cupboard to fold vertically within the same and to outfold downwardly to substantially horizontal extension therefrom, a panel strut hinged to the underside of the outfolded board extending angularly therefrom into the lower part of the cupboard free of the front wall of the cupboard and resting at its lower edge against an abutment formed on the bottom of the cabinet.



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1,692,931. APPARATUS FOR SEPARATING EGGS. JOHN G. DOW, San Francisco, Calif., assignor of one-half to Thomas P. Galvin and one-third to John C. Burdick. Filed Aug. 27, 1927. Serial No. 215,919. 4 Claims. (Cl. 146—2.)



1. In an apparatus for separating the whites from the yolks of eggs, a plurality of downwardly slanting laterally spaced wires over which the eggs are adapted to slide, said wires provided with a gap formed by a downward looping of the wires adapted to catch the whites and for the yolks to ride over.

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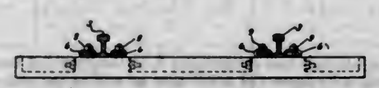
1,692,932. REAR-AXLE-HOUSING CONSTRUCTION. HENRY FORD, Dearborn, Mich. Filed Aug. 18, 1927. Serial No. 213,777. 5 Claims. (Cl. 29—148.1.)



1. In a method for forming drum axle housings, consisting of first forming the drum by rolling a channel section strip to form a broken ring, then forming a driveshaft sleeve having channel extensions from the edges thereof designed to complete the drum, then welding said driveshaft sleeve extension to the broken ring to complete the drum, then forming tube members by first forming tapered tubes, then forming bells, then forming axle end members having a securing flange and spring perch thereon, then welding the tubes to the bells and end members to form the tube members.

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1,692,933. FERROREENFORCED-CONCRETE SLEEPER. KIJIRO FUKAGAWA, Saga, Japan, assignor to Maruichi-Goshikaisha, Tokyo, Japan. Filed May 24, 1927, Serial No. 193,787, and in Japan Dec. 20, 1926. 7 Claims. (Cl. 238—92.)

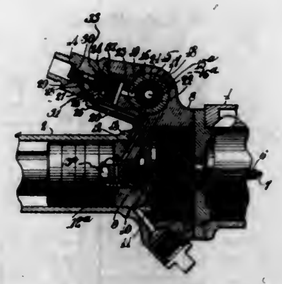


1. A reenforced concrete railroad tie comprising a recessed body portion provided with rail seats, said seats having slots therein and passages extending from the bottoms of said slots through said seats.

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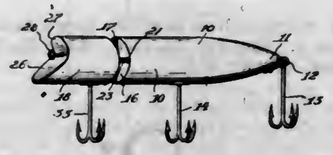
1,692,934. ROCK DRILL. ELMER G. GARTIN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed July 2, 1921. Serial No. 482,217. 17 Claims. (Cl. 121—8.)

1. In a rock drilling mechanism, means for conducting cleansing fluid to a drilled hole including a plurality of tubes, means for supplying cleansing fluids thereto comprising a plurality of separate conduits leading to said tubes, and means for controlling the flow of fluid through said tubes comprising a plurality of valves, and controlling means for said valves operable to permit flow past one of the same while the other is closed and including pressure controlled means for controlling one of said valves wholly controlled by another thereof.



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1,692,935. ARTIFICIAL BAIT. CHARLES HEDDON, Dowagiac, Mich., assignor to James Heddon's Sons, Dowagiac, Mich., a Corporation of Michigan. Filed Sept. 15, 1926. Serial No. 135,505. 9 Claims. (Cl. 43—46.)



1. A bait consisting of a head section having a nonplanate frontal surface configured to provide a channel for the escape of the water and having opposed walls positioned to receive inequalities in lateral pressure of the escaping water in imparting lateral movements to the head, and a body having flexible relation to the head and connected to swing laterally with respect thereto, the body being rigid and having a greater mass than the head, substantially as described.

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1,692,936. COPPER ALLOY. FRIEDRICH HEUSLER, Dillenburg, Germany. Filed July 17, 1926. Serial No. 123,250. 4 Claims. (Cl. 148—11.)

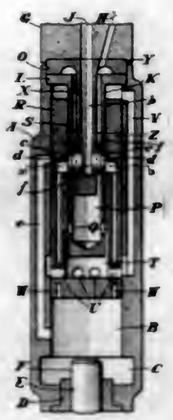
3. The method of increasing the hardness and elastic limit of alloys containing a predominant proportion of copper, 0.5 to 20% of manganese, 0.3 to 8% of silicon, which consists in first annealing the alloys after they have been cast, rolled or forged, at a temperature above 450° C., then cooling and finally hardening the same at a temperature of from 200 to 350° C.

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1,692,937. PERCUSSIVE TOOL. GEORGE W. HULSHIZER, Stewartsville, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 2, 1927. Serial No. 217,108. 7 Claims. (Cl. 121—17.)

1. A fluid actuated percussive tool, comprising a cylinder having an inlet passage leading to one end thereof, a reciprocatory piston in the cylinder having a chamber, a

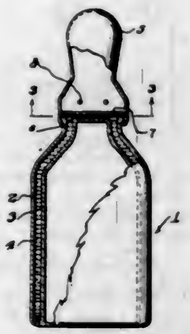
hollow inlet plug extending into the chamber constantly associated with a supply of pressure fluid, said inlet plug and piston having ports communicable for intermittently admitting pressure fluid into the chamber and through



the inlet passage to one end of the cylinder, passages in the piston for conveying pressure fluid to the other end of the cylinder, and a hollow exhaust plug in the inlet plug for conveying exhaust fluid from the cylinder.

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1,692,938. TOY NURSING BOTTLE. JOSEPH JACOBS, New York, N. Y. Filed Feb. 15, 1927. Serial No. 168,307. 3 Claims. (Cl. 46—40.)

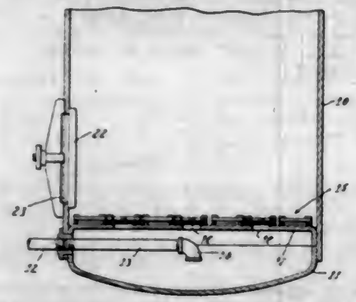


1. In a device of the class described, a bottle formed of transparent material having double walls forming a chamber, a liquid in said chamber, a nipple attached to the neck of said bottle and communicating with said chamber, the said liquid adapted to be poured in said nipple when the bottle is inverted.

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1,692,939. WATER SOFTENER. OSCAR W. JOHNSON, Rockford, Ill., assignor to Ward-Love Pump Corporation, Rockford, Ill., a Corporation of Illinois. Filed Oct. 15, 1926. Serial No. 141,688. 5 Claims. (Cl. 210—24.)

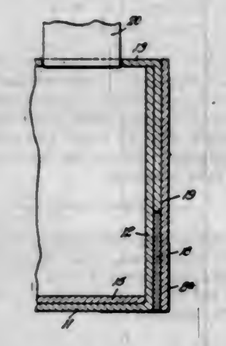
1. In a water softener having a bed of base-exchange material, a perforated supporting and retaining wall for said material arranged to serve as a frame-work onto which may be fastened a network or patchwork of pieces of diaphragm material, a plurality of pieces of diaphragm material for said network or patchwork, and individual means for each piece of diaphragm material for securing the same to said wall in such a way as to permit its separate removal and replacement while permitting each piece to buckle individually under the action of the water



flowing therethrough, each of said pieces of diaphragm material being provided of substantially circular form with rings of gasket material on its marginal edges on opposed faces, and the means for securing the same in place comprising a ring arranged to be superposed on the piece of diaphragm material and to be fastened to the supporting and retaining wall whereby to clamp the piece of diaphragm material in place between its rings of gasket material.

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1,692,940. FOLDING STORAGE FILING CASE. FRED H. JONES, Chicago, Ill. Filed Sept. 4, 1926. Serial No. 133,548. 3 Claims. (Cl. 229—23.)

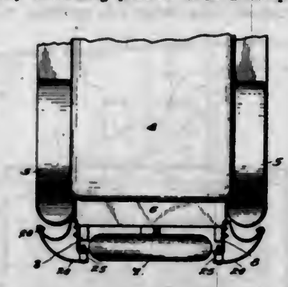


1. A storage case comprising a vertically sided frame, a spacing strip upon the inner face of one of the side walls of the frame, a case unit in the frame and having one of its side walls spaced from said frame wall to provide a longitudinal pocket, and a hinged closure for the case unit having a tongue engageable in the pocket when the former is in closed position.

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1,692,941. BUMPERETTE. FRANK J. KERBER, Chicago, Ill. Filed Dec. 27, 1926. Serial No. 157,026. 5 Claims. (Cl. 293—55.)

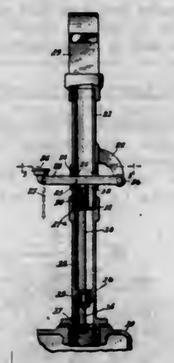
5. A bumperette comprising a plurality of bars in contact and adapted to attach to a chassis, both having inwardly bent rear ends, one bar having at its forward end an outwardly extending portion with a compound curve,



a curved bar connected to the outer end of the latter bar, and a compensating connection between the curved bar and the inwardly bent rear ends.

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1,692,942. TRAFFIC-SIGNAL APPARATUS. JOHN KUALI, Hudson Heights, N. J. Filed Apr. 26, 1924. Serial No. 709,148. 2 Claims. (Cl. 116—137.)

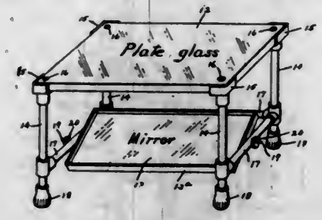


1. Apparatus of the character described comprising a receptacle adapted to hold an operating fluid under pressure therein, a tubular member having an end in communication with said receptacle, said tubular member having a valve seat therein, a valve stem guide disposed adjacent the other end of said tubular member, a valve and a valve stem disposed within said tubular member, said stem projecting beyond said other end, a second tubular member disposed in alignment with said first mentioned tubular member and detachably secured to said other end and into which said valve stem projects, a valve operating device carried by said second tubular member, a whistle also carried by said second tubular member, said valve operating device including a member located partly within and partly outside of said second tubular member, that part of said device which is within said second tubular member being arranged to engage the projecting end of said valve stem, and a spring on said stem all being arranged whereby said first tubular member, said valve, said valve seat and said spring constitute one unit, and said second tubular member, said whistle and said valve operating device constitute a second unit, said tubular members having separable connection one with the other for the purposes described.

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1,692,943. FOOT DEMONSTRATOR. JOSEPH LELYVELD, Rockland, Mass. Filed May 6, 1926. Serial No. 107,019. 3 Claims. (Cl. 128—2.)

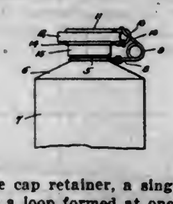
1. A foot demonstrator comprising a flat transparent tread, an open frame surmounted by and horizontally supporting the tread, and a mirror located under the tread and arranged to reflect a foot bottom bearing on the tread, the frame including tread-supporting standards extending downward from the tread and spaced apart, to permit access to the bottom of the tread for cleaning, and the pas-




sage of light between the standards to the tread for illumination of a foot bottom thereon, the arrangement being such that a reflection by the mirror is visible from a point wholly at one side of the demonstrator, and without obstruction by the tread and by feet thereon.

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1,692,944. REMOVABLE CAP ATTACHMENT. JOHN JOSEPH MCGRATH, Brooklyn, N. Y. Filed Nov. 11, 1927. Serial No. 232,618. 1 Claim. (Cl. 221—60.)



In a removable cap retainer, a single strand of spring-like wire, having a loop formed at one end adapted to engage the neck of a compressible tube, a loop formed intermediate the ends of the wire adapted to engage the top of the cap, a loop formed at the opposite end of the wire adapted to engage the hub of the cap and co-acting with said intermediate loop to secure the cap therebetween in gripping relation and a spring formed from the wire intermediate the first named loop and the intermediate loop whereby to yieldably retain said loops in relative position with each other.

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1,692,945. KNITTING MACHINE. JAMES MCNAMEE, Ballston Spa, N. Y. Filed Aug. 29, 1927. Serial No. 216,175. 9 Claims. (Cl. 66—79.)



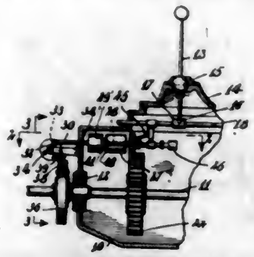
1. A knitting machine having a circular series of spring needles, alternate needles being longer than the remaining needles, means for shifting one of the needles laterally to position the long needle in lapped relation with an adjacent short needle, and means for looping over the short needle the stitch carried by the long needle, said needles being adapted, when released, to spring apart to spread the engaged stitch.

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1,692,946. AUTOMATIC AUTOMOBILE BACKSLIDE BRAKE. CHARLES W. MILLARD, Jr., Scarsdale, N. Y. Filed June 16, 1927. Serial No. 199,194. 2 Claims. (Cl. 192—4.)

1. In a motor vehicle brake of the class described, a clutch member mounted on a shaft, as a means of grip-

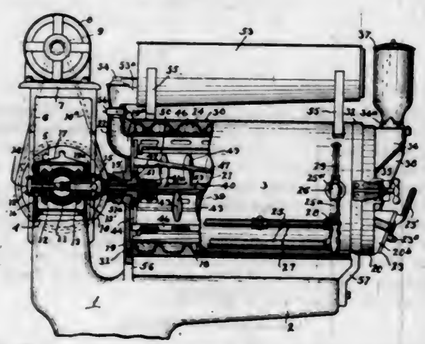
ping the said shaft when the clutch is rotating in one direction, and as a means of securing free rotation of the said clutch member in the opposite direction, said clutch member having secured thereto, and extended therefrom pins,



adapted to engage in apertures formed in a block member, said block member threadedly mounted in a second shaft, said second shaft in alignment with the first mentioned shaft, the said second shaft rotatively mounted in the said transmission case.

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1,692,947. MACHINE FOR TREATING MATERIALS. HARVEY H. MILLER, Canton, Ohio, assignor to The H. H. Miller Industries Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 28, 1927. Serial No. 164,150. 3 Claims. (Cl. 259—6.)

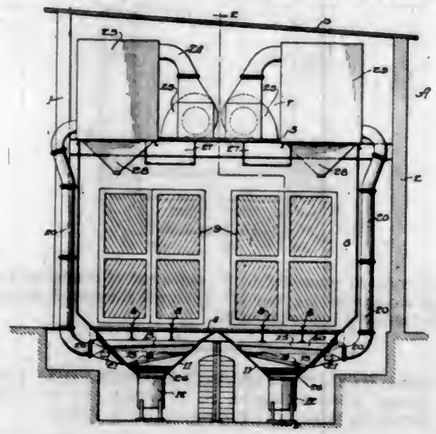


1. In a machine of the class described, the combination of a cylinder for material having an inlet and an outlet, inner and outer members mounted to rotate within said cylinder in different paths measured radially thereof and relative to each other, said outer member operating to scrape the material from the inner surface of said cylinder and said inner member comprising sets of blades disposed upon opposite sides of the axis of said inner member and arranged to propel the material toward one end of the cylinder and an element arranged midway between the outer ends of said blades and traversing a circular path within but closely adjacent the scraping elements of said outer member and operating to impel the material substantially outwardly against said inner surface, and means for operating said members.

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1,692,948. SAND-BLAST APPARATUS AND PROCESS. RAYMOND H. MOORE, Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y., a Corporation of Ohio. Filed May 20, 1922. Serial No. 562,469. 6 Claims. (Cl. 51—8.)

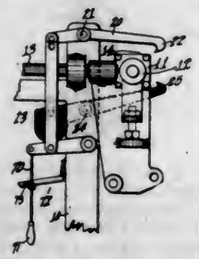
1. The combination of a separating chamber into which the abrasive and dust may pass and pneumatic means for separating the abrasive and dust from one another in said chamber, said separating chamber comprising a hopper for receiving the abrasive and dust and having a trough within the hopper, said trough being connected with said pneumatic means there being side openings to permit the



entry of the abrasive and dust into said trough, and also a bottom opening to permit abrasive to fall from the trough while the dust is being removed therefrom by the pneumatic means.

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1,692,949. CYLINDER PAWL FOR JACQUARDS. JACOB B. OLCH, Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed May 11, 1927. Serial No. 190,584. 4 Claims. (Cl. 139—329.)



1. In a jacquard mechanism having a cylinder movable back and forth in a prescribed path and having a plurality of pull over pins, a pull over pawl having a fixed pivot, said pawl to cooperate with the pins one at a time to cause a partial rotation of the cylinder as the latter moves, a control member for the pawl, and means defining a loose connection between the pawl and the member to lift said pawl positively away from the pins when said control member moves in one direction, said pawl being movable away from the pins independently of the control member because of the loose connection.

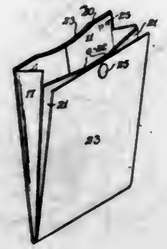
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1,692,950. PROCESS FOR PROTECTING ANIMAL FIBER. PAUL ONNERTZ, Berlin-Wilmersdorf, and BENNO SCHWÄRZEL, Berlin, Germany, assignors, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed June 22, 1925, Serial No. 38,901, and in Germany Aug. 21, 1924. 4 Claims. (Cl. 8—20.)

1. The method of protecting animal fibers from the injurious effect of alkaline liquids, which comprises treating the fibers with an alkaline liquid in the presence of a sulphurized phenol which does not possess the properties of a dyestuff and which is soluble in a sodium carbonate solution with only a slight color.



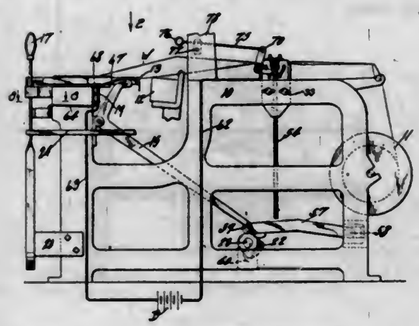
1,692,951. DRINKING CUP AND THE LIKE. ARTHUR S. PINCKNEY, Dayton, Ohio. Filed July 29, 1926. Serial No. 125,808. 2 Claims. (Cl. 229—1.5.)



1. A collapsible drinking cup comprising an inner portion folded along the opposite edges and converging toward the bottom edge thereof, an intermediate portion of like material and a cover portion of unlike transparent material, folded transversely over the opposite sides of said inner portion.

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1,692,952. ELECTRICALLY-OPERATED WARP STOP MOTION. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 4, 1927. Serial No. 210,661. 9 Claims. (Cl. 139—351.)

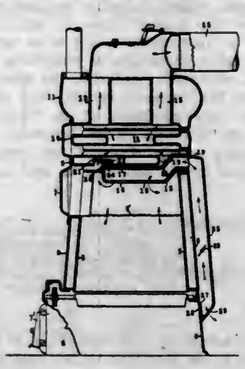


1. In a warp stop motion, a plurality of drop wires, a fixed electric contact bar positioned to be engaged by a fallen drop wire, and additional mechanical means effective to agitate a fallen drop wire to force said wire repeatedly against said fixed bar until electrical contact with said bar is effected.

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1,692,953. FURNACE. DWIGHT S. RICHARDSON, New York, N. Y., assignor to Richardson & Boynton Co., New York, N. Y., a Corporation of New York. Filed Jan. 9, 1925. Serial No. 1,866. 6 Claims. (Cl. 100—75.)

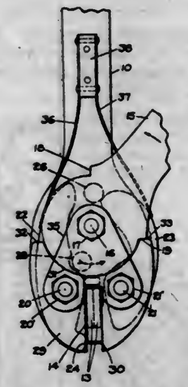
1. In combination, a furnace having a combustion chamber defined by walls, an airbox within said combustion chamber, and means to support said airbox within said chamber, said means including a shoulder formed on one of said walls, a hook associated with another of said walls, and extending in a direction away from the first wall, a hook associated with said box and extending to-



wards said shoulder, and an air intake member associated with said box and extending substantially in the same direction as the latter hook and engaging said shoulder.

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1,692,954. CLAMP-APPLYING TOOL. JOHN E. ROUGHAN, Liberty, Ind., assignor to Walter F. Bossert, Liberty, Ind. Filed Apr. 30, 1927. Serial No. 187,934. 6 Claims. (Cl. 81—9.1.)



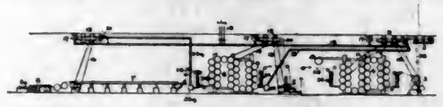
1. A clamp-applying tool comprising a handle having a clamp-receiving depression in its extremity, a jaw pivoted at each side of the depression and having its inner edge provided with a cam portion, and a member pivoted on said handle between said cam portions and provided with a pair of spaced pins adapted when the member is oscillated to force the cam portions of the jaws apart to cause the jaws to perform the clamping operation, said cam portions being arranged at different angles so that the movement of one of the jaws will precede the movement of the opposed jaw whereby the clamping operation will be successively performed, substantially as set forth.

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1,692,955. METHOD AND MEANS FOR OPERATING TEXTILE RANGES. WILLIAM S. ROWLEY and HARRY W. BUTTERWORTH, Jr., Philadelphia, Pa., assignors to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed Mar. 28, 1924. Serial No. 702,564. 6 Claims. (Cl. 271—2.3.)

1. The herein described method of controlling the operation of a plurality of different machines constituting a

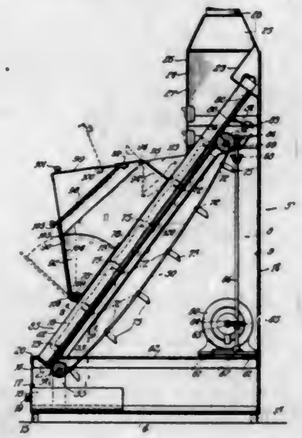
"range", through which machines a textile material is required to pass in succession and by which the material is subjected to treatments of different kinds peculiar to the several machines, which consists in operating all of the machines of the "range" through which the textile material passes at approximately the same surface speeds allowing for possible shrinkage or stretching which may normally occur, manually regulating the speed of one of the machines of the "range", varying the speed of one or more of the other machines of the "range" whereby the surface speed is increased or decreased to compensate for stretching or shrinkage of the textile material while being treated as the case may be, and automatically



controlling the increasing and decreasing of the speeds of the respective other machines by the degree of stretching or shrinking of the material undergoing treatment therein and wherein further, one of the other machines immediately preceding the manually controlled machine and through which the textile material passes before passing through the manually controlled machine has its speed decreased or increased commensurately in accordance with the varying stretching or shrinking of the textile material and established at a point intermediate of its treatment in the manually controlled machine and the said other machine immediately preceding it in the "range."

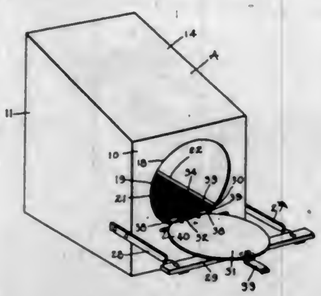
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1,692,956. FRANKFURT MACHINE. THOMAS C. RUSSELL, Evanston, Ill., assignor to Adam H. Kulikowski, Evanston, Ill. Filed June 13, 1927. Serial No. 198,620. 5 Claims. (Cl. 126—41.)



1. In combination, a longitudinal cooking trough, heater means extending along said trough, an endless conveyor operable adjacent said trough, means on said conveyor and for feeding the articles through said trough with the movement of the conveyor, said trough being inclined and having means to permit grease to drain vertically therefrom as formed, a drip pan underlying said trough for receiving the grease from said trough, a storage bin overlying said cooking trough and heated by said heater means, means for automatically discharging the articles as cooked from said conveyor and into said compartment, and means on said conveyor for actuating said last means with the movement of the conveyor.

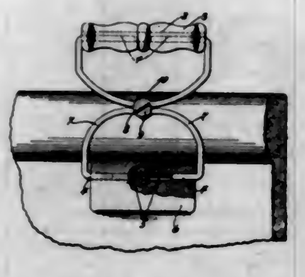
1,692,957. TRAP NEST. JOHN L. SKINNER, Minneapolis, Minn. Filed Feb. 17, 1927. Serial No. 168,927. 7 Claims. (Cl. 119—49.)



1. A trap nest comprising an enclosure having a wall formed with an entrance opening, a door for said opening adapted to normally extend outwardly beyond said wall to form an approach to said opening, a portion of said door extending across the sill of said opening and inwardly within said enclosure and adapted to rest thereon, a movable member within said enclosure, a stop formed on said door in proximity to the point of contact of said door with said sill for swingably mounting said door in conjunction therewith, and means connecting the inwardly extending portion of said door with said movable member for swinging said door into closing position upon downward movement of said member.

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1,692,958. BAIL. CARLTON B. STAHL, White Hall, Ill. Filed Oct. 29, 1927. Serial No. 229,568. 3 Claims. (Cl. 215—100.)



1. A bail comprising a pair of wire members each composed of a single thickness of material throughout its length and each being bent to provide an eye intermediate of its ends composed wholly of a single thickness of said wire and overlapping the eye on the other member, a handle engaging the upper ends of said members, projections on the opposite ends of said members for engagement with a lug of a jar, and a clamping element passing through said overlapping eyes.

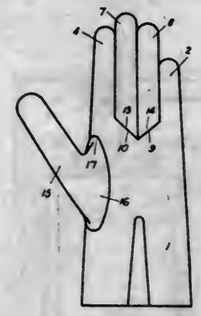
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1,692,959. GLOVE. JOHANN STEINERT, Chemnitz, Germany. Filed July 15, 1926, Serial No. 122,649, and in Germany Aug. 14, 1925. 2 Claims. (Cl. 2—169.)

1. A glove of the character described, comprising a blank which is cut so as to form at one side the back pieces for the second, third and fourth fingers and at the other side a counter-part for the fourth finger and a complete piece for the index finger, and separate pieces forming the front and sides of the second and third fingers, the blank being



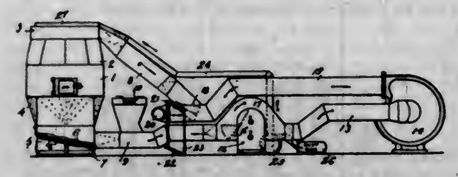
slit obliquely at the base of and between said counter-part and complete piece so as to form flaps which, when turned back, coincide with the obliquity of the dividing surface between the fingers of the hand, said separate finger pieces being formed with straight-edged triangular incisions



forming in each case three triangular flaps, the outermost of said flaps being adapted, when turned back, to coincide with the obliquity of the dividing surface between the fingers of the hand, the middle flaps of the two pieces being adapted to fill the gap formed by the slitting of the blank.

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1,692,960. MATTRESS-FILLER-TREATING MACHINE. HUGO R. SWANSON, Brooklyn, and KILIAEN M. VAN RENSSELAER, Woodmere, N. Y., assignors to Triangle Kapok Machine Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 21, 1927. Serial No. 176,938. 5 Claims. (Cl. 19—144.)



1. In a machine of the character described the combination with an aeration tank, a circulatory system associated therewith and means for causing the material to be treated to circulate in said system of means communicating with said tank for removing the dust therefrom whenever a back pressure is created in said system.

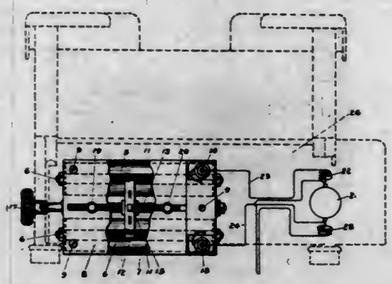
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1,692,961. ALTERNATING-CURRENT RELAY. ELMER O. THOMPSON, Tomkinsville, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 29, 1921. Serial No. 525,728. 5 Claims. (Cl. 200—91.)



1. In a selective alternating current relay, a tuned reed, two members carried thereby and normally separated, one of them having inertia and being capable of displacement relatively to the other member and being adapted on vibration intermittently to make contact with the other, and a circuit to be closed and opened correspondingly.

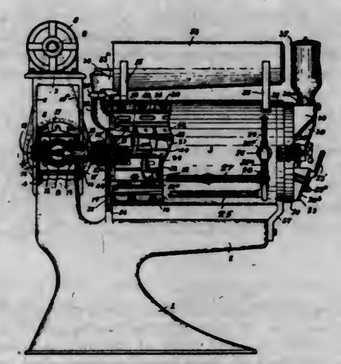
1,692,962. MOTOR CONTROLLER. RUSSELL G. THOMPSON, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 2, 1925. Serial No. 66,425. 2 Claims. (Cl. 201—62.)



1. A rheostat comprising: two resistance devices provided with parallel series of contact points, a screw lying between and parallel with the resistance devices, a housing enclosing the resistance devices and provided with a slot parallel with the screw, a nut member, of insulating material, threaded upon the screw and comprising a lateral projection which engages said slot to prevent turning of the nut member about the screw, and a contact blade centrally perforated to receive said projection and spanning the two series of contact points.

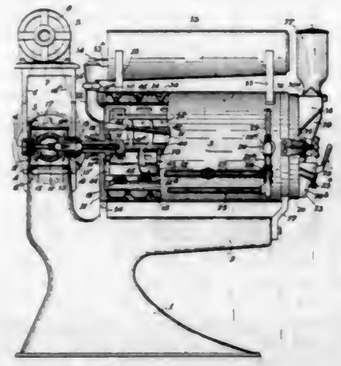
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1,692,963. MACHINE FOR TREATING MATERIALS. WILLIAM H. THOMPSON, Canton, Ohio, assignor to The H. H. Miller Industries Company, Canton, Ohio, a Corporation of Ohio. Original application filed Mar. 17, 1924, Serial No. 699,849. Divided and this application filed Oct. 31, 1925. Serial No. 66,045. 12 Claims. (Cl. 259—105.)



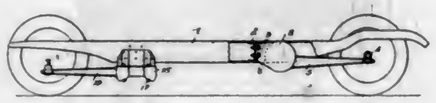
1. In a machine of the class described, the combination of a cylinder for material having an inlet and an outlet, members mounted to rotate within said cylinder and relative to each other, one of said members operating to scrape the material from the inner surface of said cylinder and the other of said members extending longitudinally of said cylinder and traversing a circular path parallel to the first mentioned members and operating in the opposite direction to impel the material outwardly toward the wall of said cylinder, and means for operating said members.

1,692,964. MACHINE FOR TREATING MATERIALS. WILLIAM H. THOMPSON, Canton, Ohio, assignor to The H. H. Miller Industries Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 17, 1924. Serial No. 699,849 10 Claims. (Cl. 257—84.)



3. In a machine of the class described, the combination of a cylinder for material having an inlet and an outlet, means for applying a temperature changing medium around the outer surface of said cylinder, inner and outer members mounted to rotate within said cylinder in different paths measured radially thereof and relative to each other, said outer member operating to scrape the material from the inner surface of said cylinder, and said inner member comprising a plurality of blades arranged to propel the material toward one end of the cylinder and an element carried by said blades and operating to impel the material substantially outwardly against said inner surface, and means for operating said members.

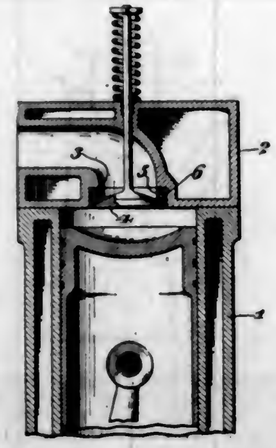
1,692,965. MOTOR VEHICLE. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 4, 1926. Serial No. 92,257. 5 Claims. (Cl. 267—21.)



1. In a motor vehicle, the combination with an arm connected to an axle, of rubber blocks having groove and rib connection with opposite faces of the arm, a frame, and retainers connected to the frame and cooperating with the rubber blocks whereby said rubber blocks clamp and support the arm.

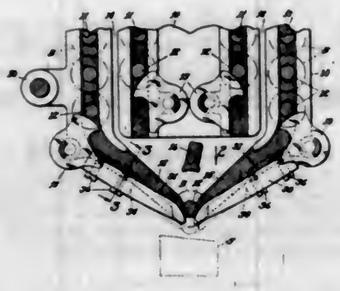
1,692,966. METHOD OF UNITING METAL OBJECTS. OTIS D. TREIBER, Collingswood, N. J., assignor to Treiber Diesel Engine Corporation, Camden, N. J., a Corporation of New Jersey. Filed Sept. 13, 1927. Serial No. 219,258. 7 Claims. (Cl. 29—156.4.)

1. The method of uniting two metal bodies one of which is provided with an opening for the reception of the other of said bodies or a portion thereof of a diameter slightly greater than the diameter of said opening, which consists in causing the said metal body or the portion thereof which is to be inserted into the said opening to contract to a



diameter slightly less than that of the said opening, inserting the same into said opening, and thereafter permitting expansion thereof.

1,692,967. RESILIENT SUPPORT FOR BOBBINS. RICHARD GREENLEAF TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 19, 1926. Serial No. 142,720. 7 Claims. (Cl. 139—251.)

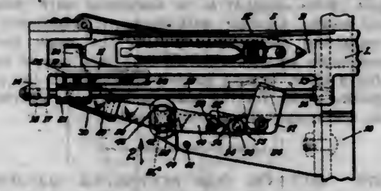


1. In a weft replenishing mechanism having a supply of bobbins and a transferrer mechanism, a frame forming part of the replenishing mechanism, a pair of bobbin supports located under the transferrer mechanism and inclined downwardly and toward each other and affording a support for a bobbin in transfer position, said supports being formed of rubber and having portions thereof held in fixed contact with a part of the frame, each support being compressible in the direction of its length due to the inherent resilience thereof.

1,692,968. LUBRICATING DEVICE FOR PICKER SPINDLES. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 7, 1928. Serial No. 252,615. 5 Claims. (Cl. 139—142.)

1. In a lubricating device for a loom having a lay movable back and forth in the loom and having a picker stick and a picker spindle, a device movable about a fixed pivot to have engagement with the picker stick as the lay moves, and a lubricating element pivotally mounted on said device





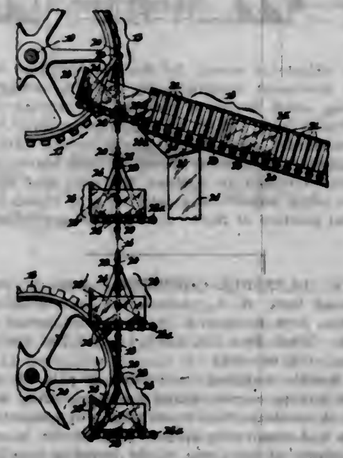
and having a spindle engaging portion offset from the axis thereof, whereby movement of the lay will cause a side slipping movement of the lubricating device along the portion of the spindle.

1,692,969. CLOSURE MEANS FOR TOBACCO POUCHES AND OTHER CONTAINERS. GEORGE S. VAN VOORHIS, Brookline, Mass. Filed Apr. 13, 1927. Serial No. 183,472. 2 Claims. (Cl. 150—8.)



1. In combination with a container having a portion consisting of resilient sheet material formed with a mouth having a resilient rim, a separable closure member therefor consisting of a plug of slightly larger diameter than the normal diameter of the said mouth and having a peripheral groove with which said resilient rim is adapted to be engaged under tension, the relative diameters of the rim of the mouth and of the plug being such that the said rim must be stretched to permit insertion and removal of the plug, said plug extending outward beyond said rim of the mouth to form a finger grip.

1,692,970. DISTRIBUTING SYSTEM FOR BRICKYARDS AND THE LIKE. GEORGE D. WARNICK, Jenkintown, Pa. Filed Dec. 3, 1925. Serial No. 72,952. 2 Claims. (Cl. 198—153.)



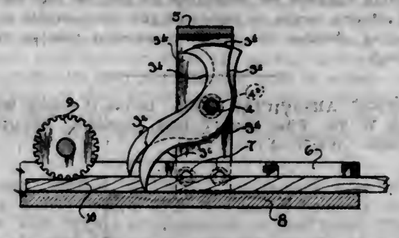
1. In distributing systems of the character described, the combination of an elevating conveyor with pivoted scoop-like carriers each equipped with a series of rollers to support articles thereon, and stationary cam means engageable by the forward roller of each successive carrier to deflect the latter into alignment with a distributing chute for automatic discharge of the carrier content.

1,692,971. ADJUSTABLE CIGAR AND CIGARETTE HOLDER. MAURICE ALLAND, Atlantic City, N. J. Filed Feb. 19, 1927. Serial No. 169,464. 3 Claims. (Cl. 131—10.)



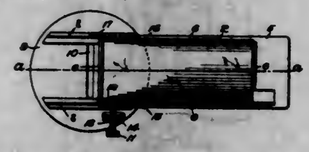
3. A smoking device, comprising a shank having a bore leading from the mouth-engaging end and communicating with a recess in the other end adapted to receive the end of a cigarette, the outer surface of said latter end being provided with a plurality of sets of screw-threads separated by an unthreaded area and a sleeve rotatably surrounding and having a free end of larger internal diameter than the recessed end of said shank, the inner supporting end of said sleeve being provided with screw-threads adapted to engage either of said sets of threads, to maintain said sleeve in extended position and adapted to receive the end of a cigar, or to maintain said sleeve in retracted position to permit the recessed end of said shank to receive the end of a cigarette.

1,692,972. SAFETY GUARD. WALTER DOUGLAS ANDERSON, Newcastle, New Brunswick, Canada. Filed June 24, 1927. Serial No. 201,163. 4 Claims. (Cl. 144—244.)



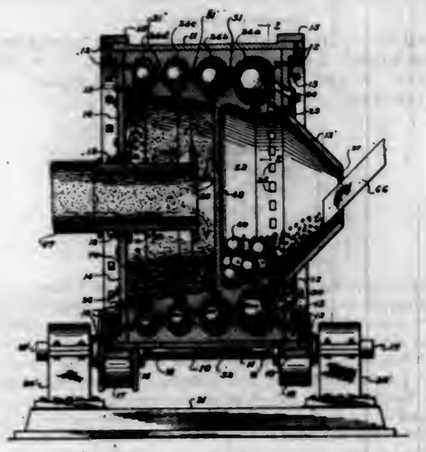
1. A safety guard for power machines comprising a bracket, a horizontal rod supported thereby and a shield carried by said rod and composed of a plurality of free swinging and independently working dogs pivoted side by side on said rod in close contact with each other to provide a solid wall for the side next the machine that is of a double curve form being convex at its lower end and concave at the top to catch and throw back particles tossed out from the machine.

1,692,973. LENS. FREDERICK G. BABCOCK, Madison, Ohio. Filed Apr. 27, 1922. Serial No. 556,961. 8 Claims. (Cl. 88—57.)



1. A lens having a transversely curved face constituting a refracting surface uniformly increasing in refractive power from zero to a selected maximum power of refraction in a longitudinal direction only, and means to direct a plane of light through a selected transverse plane of said lens.

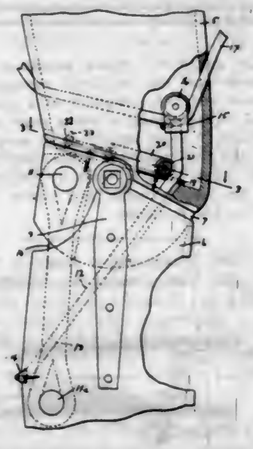
1,692,974. BALANCED BALL MILL. WILLIAM M. BARKER, Canton, Ohio. Filed Sept. 1, 1926. Serial No. 132,987. 15 Claims. (Cl. 83—9.)



1. A ball mill and the like including walls forming a feed chamber, a discharge chamber and an annular grinding chamber, a plurality of material inlet ports communicating between the feed chamber and the grinding chamber, a plurality of outlet ports communicating between the grinding chamber and the discharge chamber, a plurality of auxiliary inlet ports in the end wall of the grinding chamber for admitting air and the like thereto, and grinding means as balls and the like movable in the grinding chamber for grinding material passing therethrough.
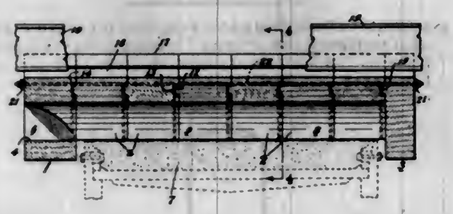
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1,692,975. ARTIFICIAL LIMB. IRVINE P. BOGGS, Wheeling, W. Va. Filed Nov. 17, 1927. Serial No. 233,948. 1 Claim. (Cl. 3—2.)



In an artificial limb of the class described, a thigh section, a lower leg section and a complemental breakable joint between said sections, means for limiting the swinging movement of the lower leg section in a forward direction, a pivotal connection between said sections, a cord fastened at its lower end with the calf of said lower leg section and extending upwardly and into the thigh section, a head on the upper end of said cord, pulleys carried by said head and pull cables trained over said pulleys, said pull cables adapted to be associated with shoulder operated means, together with manually adjustable tension regulating means mounted in the thigh section, and cooperable with said cords, said last named means including a plate, a yoke slidably mounted on the plate, an adjusting screw for the yoke, and a pulley carried by the yoke and cooperable with said cord.

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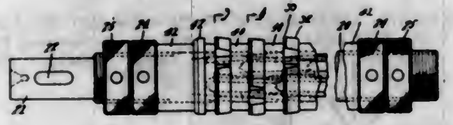
1,692,976. MUFFLE FOR SINTERING MACHINES. JOSEPH CHARLES DEVICK, Helena, Mont., assignor to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 21, 1925. Serial No. 51,562. 6 Claims. (Cl. 266—20.)



1. A muffle comprising a plurality of one-piece arch shaped sections of fire resisting material having a fuel ignition chamber, interfitting means between adjoining sections around said chamber, and a clamping device for clamping said sections together including an elongated member extending between end sections.

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1,692,977. BROACH WITH ADJUSTABLE BROACHING MEMBERS. WILLIAM DE VOE, Worcester, Mass., and JAMES J. WARD, Detroit, Mich., assignors to Detroit Broach Corporation, Detroit, Mich., a Corporation of Michigan. Filed May 23, 1927. Serial No. 193,467. 15 Claims. (Cl. 90—33.)



1. An adjustable broach for finishing internal work by relative movement longitudinally thereof, comprising a supporting shaft having a plurality of bearing surfaces spaced apart, both axially and circumferentially, and inclined outwardly with respect to the broach axis, and a separate broaching member seated on each bearing surface and firmly retained in position thereon, said broaching members being adjustable axially of said broach to vary the radial position of their outer circumferential surfaces.

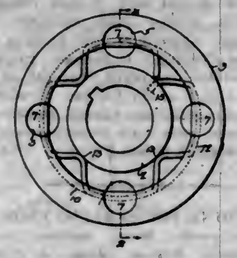
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1,692,978. FLEXIBLE COUPLING. JOHN R. DUNHAM, Highland Park, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a Corporation of New Jersey. Filed June 15, 1927. Serial No. 199,054. 4 Claims. (Cl. 64—96.)

1. A flexible coupling comprising a pair of coupling members having corresponding and registering series of cylindrical openings, flexible coupling pins connecting said members and comprising keepers adapted for insertion in said openings, at least one of the coupling members and the associated keepers of the coupling pin having registering transverse recesses, and a resilient split element



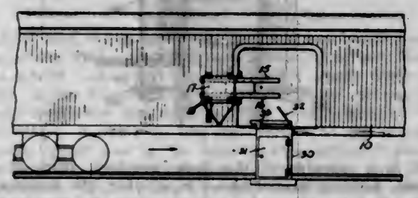
carried in the recess of said coupling member and adapted to project into the recesses of the keepers to anchor them in said member, said element including parts projecting



inwardly and in abutment with a surface of said member and preventing accidental contraction of said retaining element to an extent permitting rotation of the keepers in the coupling members.

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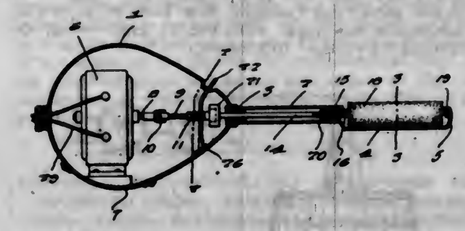
1,692,979. DEVICE FOR DELIVERING MAIL BAGS FROM RAILWAY CARS. EUGENE E. EDENHARDER and JACOB E. EDENHARDER, West Allis, Wis., assignors of one-third to Helen Edenharder, West Allis, Wis. Filed Jan. 20, 1926. Serial No. 82,560. 6 Claims. (Cl. 258—19.)



1. In a device for delivering mail bags from moving railway cars, a receptacle carried by the car, and having a V-trough or hopper formed of converging grids one of which is movable, and adapted to support a mail bag in position for delivery, in combination with a stationary grid adapted to engage the mail bag and deflect it from the hopper through its movable grid.

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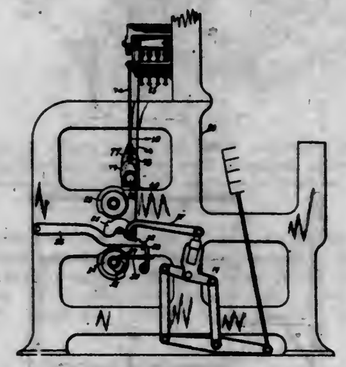
1,692,980. MOTOR-DRIVEN ROTARY TOOTHBRUSH. GORDON C. FARMER, Blacksburg, Va. Filed Sept. 7, 1927. Serial No. 217,953. 2 Claims. (Cl. 15—28.)



1. A tooth brush comprising a casing, an elongated sleeve extending forwardly from the forward end thereof, a motor supported in the casing, a stub shaft, a universal coupling connecting the stub shaft and the motor shaft, a driven shaft extending through the sleeve from within the forward portion of the casing, a brush head connected to the driven shaft, a sleeve slidably connected on the stub shaft, an enlarged circular head on the forward end of the sleeve, a circular recessed member supported on the inner end of the driven shaft, said circular head being adapted to be engaged in the recessed member for effecting the rotation thereof, a lever supported at its lower end in the casing, the upper portion of the lever extending through a transverse slot provided in the top of the casing, the intermediate portion of the lever being secured to said sleeve, said lever being adapted to be moved rearwardly and laterally by virtue of the slidable connection and universal coupling to disengage the head from the recessed member and to move the head into engagement with the outer peripheral face of the recessed member, whereby the driven shaft may be rotated in opposite directions.

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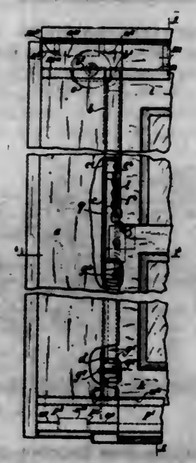
1,692,981. BOX INDICATOR FOR JACQUARD LOOMS. HENRY S. FAVOR and GEORGE J. PFEIFFER, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 16, 1926. Serial No. 95,059. 7 Claims. (Cl. 139—180.)



7. A box indicator for looms having a plurality of drop boxes and actuating mechanism including vibrator levers therefor, said indicator comprising a plurality of indicator levers link-connected to said vibrator levers, a fixed shaft on which said indicator levers are pivoted, retaining devices effective to hold any indicator lever in raised position, a separate stand for each retaining device also pivoted on said fixed shaft, and separate means to secure each stand to said shaft in angularly adjusted position thereon.

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1,692,982. METAL WINDOW. ALPHONSUS FIEN, New York, N. Y., assignor to S. H. Pomeroy Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 3, 1927. Serial No. 230,755. 9 Claims. (Cl. 189—75.)

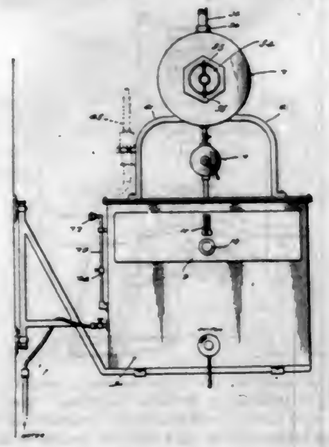


1. In a metal window the combination of a jamb formed of a sheet of metal having its opposed edges spaced apart, a

pulley stile seated between the opposed edges of the jamb and formed with vertical rails and grooves to receive the flanges of the sash, the pulley stile comprising an upper section and a lower section with one of the ribs of the upper section narrower than the corresponding rib of the lower section to form a wider groove, a flanged metal sash having its flanges received in the grooves of the pulley stile, and a counterbalance chain connected to the sash and disposed in said wider groove of the pulley stile.

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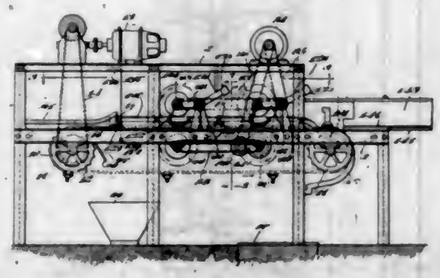
1,692,983. STERILIZING APPARATUS. HARRY A. FOSTER, Bradenton, Fla. Filed Oct. 8, 1926. Serial No. 140,374. 3 Claims. (Cl. 167—3.)



1. In a structure of the class described in combination, an instrument cleansing cabinet including an instrument drawer, and a superposed device carried thereby and constructed for subjecting a dental hand-piece to the sterilizing action of an antiseptic spray, and means interposed between the antiseptic device and the cabinet for conducting a portion of the antiseptic solution from said device into said cabinet, where it is deposited in said instrument drawer.

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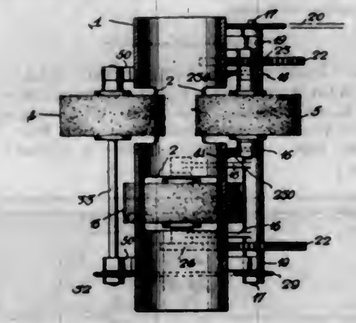
1,692,984. FISH-SCALING MACHINE. ERNEST A. GALLISON, Watertown, Mass., assignor to Bay State Fishing Company, Boston, Mass., a Corporation of Maine. Filed Feb. 19, 1927. Serial No. 169,623. 18 Claims. (Cl. 17—5.)



10. A machine of the class described comprising a pair of similar endless conveyor elements, a series of clamps each having a part spanning the space between said elements and a part pivotally connected thereto and yieldably urged toward the first-named part, prong members upon each clamp adapted to penetrate a member gripped therein, the second-named part of each clamp having an outward extension, spaced guide elements upon which said extensions are adapted to ride to open said clamps twice during one circuitous movement, means holding a portion of the endless conveyor elements at a predetermined level for a part of its journey between said guide elements, and scale removing factors adjoining this portion of the machine, said scale removing factors comprising oppositely rotatable brushes.

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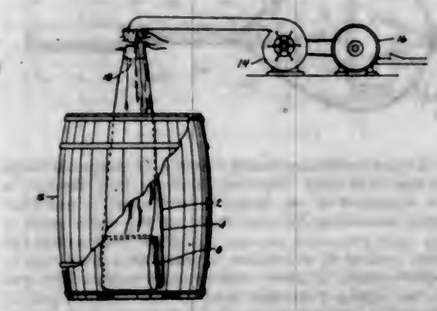
1,692,985. MACHINE FOR SCALING FISH. ERNEST A. GALLISON, Watertown, Mass., assignor to Bay State Fishing Company, Boston, Mass., a Corporation of Maine. Filed Feb. 19, 1927. Serial No. 169,624. 8 Claims. (Cl. 17—5.)



6. In a machine of the class described, pairs of rotatable brushes located above each other, the brushes of each pair being disposed at opposite sides of a downwardly extending central opening, one of the brushes of each pair being rotatable about a fixed axis, and the other being rotatable about an axis that is yieldably pressed inward toward the opening and the opposite brush with the fixed axis, driving means for said brushes, said means being arranged to drive one brush of each pair at a higher speed than the other brush of the same pair.

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1,692,986. METHOD OF LINING TUBULAR CONTAINERS. ELBERT C. HARDY, Ludington, Mich., and PEDRO JOSE MORALES, Chicago, Ill., assignors to Arkell Safety Bag Company, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1928. Serial No. 256,055. 5 Claims. (Cl. 93—1.)

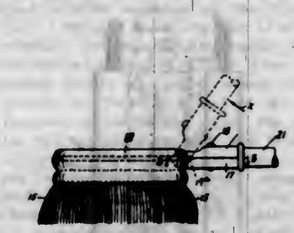


1. The method of lining a tubular container closed at one end, which consists in inserting into the container a lining member comprising an elongated paper tube closed at one end, said tube being folded so that its inner walls are in contact with one another and adapted when distended within said container to contact with the side walls thereof on all sides so that the lower portion of said inserted member is positioned adjacent to the bottom of the container and supplying air under pressure to the mouth of said folded member thus positioned so as to inflate the same and cause its outer wall to contact with the inner wall of the container.



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1,692,987. MOP. FRED E. HILL, Woburn, Mass., assignor to Quality Manufacturing Company, Inc., Woburn, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1928. Serial No. 247,100. 1 Claim. (Cl. 806—19.)

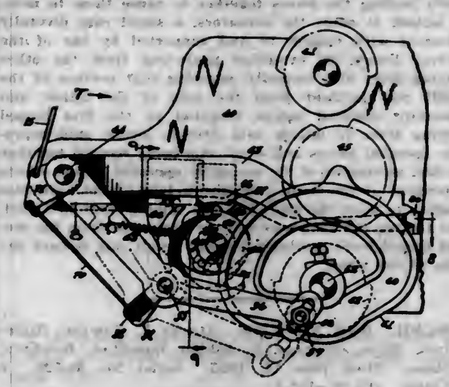


In a mop which comprises an operating handle and a looped mop frame, provided with mop material and including alined ends provided with spaced apart fingers at right angles therewith; a connecting shank composed of upper and lower cast metal sections, riveted together and collectively forming in one end portion of the shank a handle socket, and in the opposite end portion a bearing for said alined ends, and spaced apart upper and lower abutments for said fingers; said bearing being formed by coinciding transverse grooves in the sections at right angles with the handle socket, the upper abutments being formed by spaced apart parallel longitudinal grooves in the upper section, and by the inclined forward ends of two spaced apart parallel longitudinal slots in the lower section coinciding with said grooves, said abutments diverging from the bearing and cooperating with the fingers in permitting a limited swinging movement of the shank relative to the frame, so that the shank may extend horizontally in the plane of the frame, to permit use of the mop under an obstruction above a floor, and may be inclined relative to the frame, to permit downward pressure of the frame and mop material thereon, by upward and forward pressure exerted on the handle, the sides of said slots being slidable in contact with the said fingers, and sustaining the frictional wear caused by swinging movements of the shank on the fingers, the abutments and slots being independent of the handle and socket, so that the handle may be applied and removed without affecting the connection between the shank and the frame.

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1,692,988. BOX-CONTROLLING MECHANISM FOR JACQUARD LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 27, 1926. Serial No. 98,010. 5 Claims. (Cl. 139—180.)

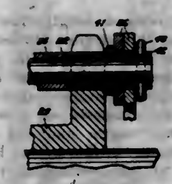
1. A box indicating and controlling mechanism for a Jacquard loom comprising means on the loom effective to receive and hold a jacquard indication for any desired number of picks, a box controlling and operating mechanism having a frame, cylinder gears mounted therein, vibrator gears selectively movable between said cylinder gears, vibrator levers for said gears mounted on said frame, positioning members for said vibrator levers movably mounted adjacent thereto, an actuating member mounted adjacent said positioning members, means to give said actuating member a regularly repeated actuating movement, and engaging devices on said actuating member



movable to either of two operative positions relative to said positioning members, said engaging devices being selectively controlled by the pattern mechanism.

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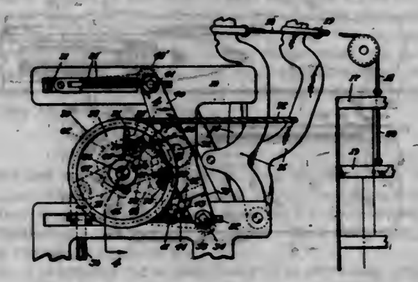
1,692,989. CHAIN ELEMENT FOR PATTERN MECHANISM. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1926. Serial No. 154,392. 3 Claims. (Cl. 139—333.)



1. In a pattern mechanism for looms, a chain cylinder, a pattern chain comprising a plurality of bars, a sleeve for each end of each bar to engage the cylinder, each sleeve being held against angular and longitudinal movement relatively to the corresponding bar, connecting links having contact with adjacent sleeves, and means defining a shoulder on the sleeve located between the cylinder and the links to space said links from the cylinder.

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1,692,990. HARNESS-LEVELING MECHANISM FOR LOOMS. ELBRIDGE R. HOLMES, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 12, 1927. Serial No. 239,326. 9 Claims. (Cl. 139—75.)

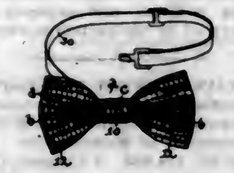


1. In a harness evening motion for a loom having harness levers and a pair of actuators reciprocating in op-

posite directions to impart motion to the levers, a pair of driving levers pivoted about the same axis and each having an arm connected to one of the actuators, means normally locking the levers together to cause them to move in unison to move the actuators, a scroll cam pivotally mounted with respect to and supported by one of the driving levers, an extension projecting from the other driving lever and normally engaging that portion of the scroll cam farthest from the axis of the latter, and manually operated means mounted on the first named driving lever to unlock said driving levers, said manually operated means and scroll cam being secured together so that movement of the manually operated means effects movement of the scroll cam, the weight of the harnesses tending to move the second named driving lever to a position to even the harnesses and the projection from the second named lever moving along the scroll cam toward the axis of the latter.

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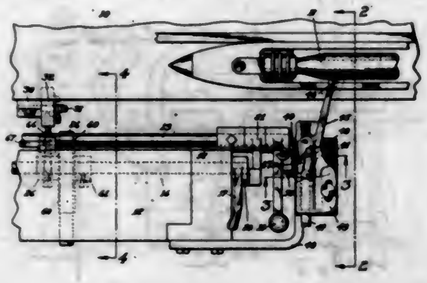
1,692,991. BOW NECKTIE. ALBERT L. HOWARD, Braintree, Mass., assignor to Ashton Hamilton, Brockton, Mass. Filed June 11, 1925. Serial No. 36,526. 1 Claim. (Cl. 2—151.)



A bow-tie comprising a longitudinal member formed of a single piece of thin flexible leather having its ends overlapped and secured together in proximity to the said ends and shaped to provide the longitudinal member with substantially parallel opposing halves, one of said halves being composed of a single thickness or layer for its entire length, and the other half being composed of a single thickness or layer for its entire length except at the overlapping ends forming part thereof, and a transverse annular member formed of a single piece of leather slidable on said longitudinal member and of a diameter materially less than the width of the halves of said longitudinal member to compress the latter near its center and to be frictionally held thereon and provide the longitudinal member with wings on opposite sides of the transverse member.

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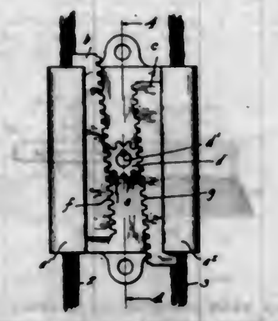
1,692,992. WEFT DETECTOR TO STOP LOOM. VICTOR H. JENNINGS, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 18, 1927. Serial No. 206,474. 11 Claims. (Cl. 139—371.)



1. In a stopping mechanism for a loom having a lay and a weft carrier, a dagger carried by the lay, loom stopping mechanism including a bunter, a shield normally guarding the bunter to engage the dagger and move the same to have an inoperative stroke, a weft detector to cooperate with the weft carrier, and means effective when the weft detector indicates substantial exhaustion of weft carrier to move said shield to uncover the bunter whereby the dagger will engage said bunter to stop the loom.

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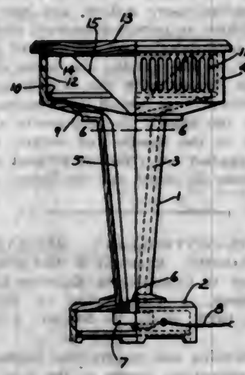
1,692,993. WIRE-ROPE CLAMP. GEORGE E. LAMBERT, Salem, Oreg., assignor of one-fourth to James W. Duff, Portland, Oreg. Filed Feb. 8, 1928. Serial No. 252,794. 6 Claims. (Cl. 24—126.)



1. A cable clamp, a plate formed at its opposite lateral edges with companion clamping guide clamps adapted to receive sections of cable therein, a wedge bar slidable in each guide flange and accommodating said cable section, the free edge of the wedge bar provided with ratchet teeth, and a rack pinion journaled on said plate between and engaging said wedge bars.

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1,692,994. RADIO LOUD SPEAKER. FRANK MATTIS, Dayton, Ohio. Filed Feb. 11, 1926. Serial No. 87,659. 8 Claims. (Cl. 181—27.)



1. A device of the type described, comprising a sound box having apertured side walls and a sound wave opening in its bottom, and a conical sound deflector in said sound box, tapering downwardly from points at its edge portion to a sharp apex within said sound wave opening.



1,692,995. GUN. JOHN J. MURPHY, Norwich, Conn., assignor to The Davis-Warner Arms Corporation, Norwich, Conn., a Corporation of Connecticut. Filed Aug. 24, 1927. Serial No. 215,000. 10 Claims. (Cl. 42—48.)



1. In a gun, an action frame, a gun barrel mounted for pivotal movement on the action frame, and a fore-end iron carried by the barrel, in combination with a spring actuated ejector member mounted on the fore-end iron, a primary detent forming a primary lock to hold the ejector member normally in restraint, a secondary detent to hold the ejector member in restraint after it has been released by the primary detent, an ejector element operable by the ejector member and forming a part of the breech of the gun, a hammer, a coil main spring for operating the hammer, a rod extending through and beyond the main spring and constituting a follower therefor, a cam operable by said rod to trip the primary detent when the hammer is released to fire the gun, and means to trip the secondary detent when the gun is broken to thereby fully release the ejector member whereby the ejector element is operated to eject the shell.

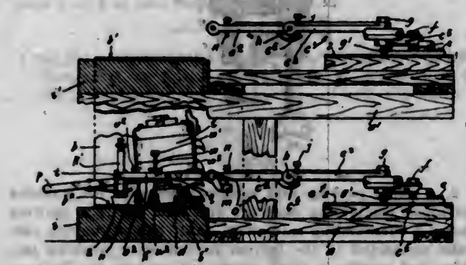
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1,692,996. METHOD FOR PROTECTING GRANULAR SUBSTANCES AND RESULTING PRODUCT. BENJAMIN P. RICHARDSON, Brookline, Mass.; Emma D. Richardson executrix of Benjamin P. Richardson, deceased. Filed Dec. 10, 1925. Serial No. 74,650. 1 Claim. (Cl. 23—243.)

A method for protecting chemically active granular materials, comprising treating the same with an excess of a normally inert impermeable solid carried by an inert liquid vehicle, separating and agitating the wet granules, removing the surplus of the fluid mixture, and causing the resulting deposit upon said granules to solidify.

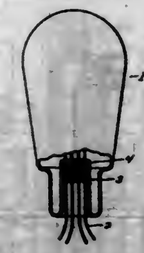
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1,692,997. SAW-DRESSING DEVICE. JAMES H. ROBERTS, St. Helens, Oreg. Filed Oct. 27, 1925. Serial No. 65,144. 3 Claims. (Cl. 51—126.)



1. A device of the character described comprising a flat base, an articulated arm pivoted at one end on said base, said arm adjustable to arrange the free end thereof substantially parallel with the surface to be ground, an operating handle pivoted for vertical movement in the free end of said arm, a motor-driven grinding-disc carried by said operating handle, said grinding disc provided with a circular beveled grinding face and rotating on an axis oblique with the surface to be ground whereby said grinding face is disposed parallel with said surface, an adjustable guide provided at the free end of said arm at each side of said grinding disc, thereby to limit the depth of cut made by the latter, and means normally holding said operating arm uplifted.

1,692,998. LEADING-IN CONDUCTOR. SAMUEL RUBEN, New York, N. Y. Filed Sept. 8, 1927. Serial No. 218,495. 2 Claims. (Cl. 250—27.5.)



2. A leading-in conductor comprising a metal body with a layer of cuprous oxide integrally formed with the said metal body.

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1,692,999. DISPLAY FRAME. CLARENCE I. SIEGEL, Chicago, Ill. Filed Dec. 6, 1927. Serial No. 238,161. 2 Claims. (Cl. 40—156.)



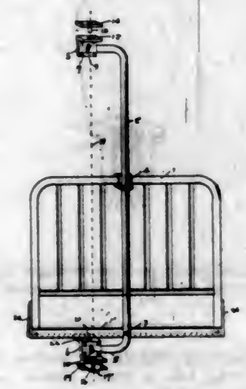
1. A poster display device comprising a retaining frame, a backing extending over said frame forming a poster receiving pocket therein, a complementary shaped locking frame snugly receivable within the poster receiving pocket of the retaining frame for holding the poster therein, snap fasteners at spaced points along one side of said frame for establishing a connection therebetween, a snap fastener at one point intermediate of said spaced snap fasteners along the opposite side of said frame for establishing another connection therebetween, finger engaging pockets formed in that side of said retaining frame having a single snap fastener adapted to have locking engagement with the retaining frame for facilitating the disengagement and removal of the locking frame from the poster receiving pocket thereof, and said snap fasteners being hidden from view when said locking frame is secured within the retaining frame.

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1,693,000. WALL-BED PIVOT MOUNTING. NEIL SINCLAIR, Oakland, Calif., assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif., a Corporation of California. Filed Dec. 22, 1926. Serial No. 156,311. 2 Claims. (Cl. 5—170.)

1. A mounting for a wall bed of the vertically pivoted type including an end frame of a bed, a vertically disposed bar secured on its vertical run to said end frame, offset ends on said bar extending parallel to the plane of the

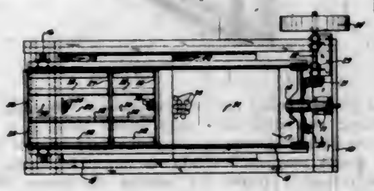
frame, brackets vertically slotted and secured therethrough to said ends whereby the brackets are vertically adjustable on said bar, vertical pivot joints on said brackets, and



said frame also secured to one of said brackets through a slot in the same whereby the plane of the frame may be adjusted with respect to the vertical.

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1,693,001. GRAVEL WASHER. CHARLES F. SMITH, Milwaukee, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 24, 1926. Serial No. 137,494. 2 Claims. (Cl. 209—270.)

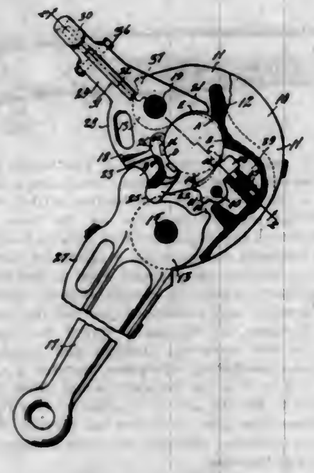


2. In a revoluble gravel washer, a cylindrical perforated washing screen having perforations of graduated sizes and extending substantially the length of said member whereby water and material may be flushed therethrough at any point, transverse retainer rings within the screen and dividing it into a scrubbing section and a gravel section, the rings serving to restrict the removal of large material from the scrubbing section to the gravel section, longitudinally extending lifting blades within only the scrubbing section and extending parallel with the axis of the screen, and means for revolving the gravel washer.

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1,693,002. TONGS. NELSON K. SMITH, Dallas, Tex. Filed Jan. 22, 1925. Serial No. 4,094. 4 Claims. (Cl. 81—67.)

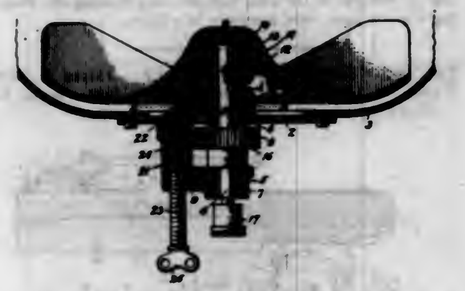
1. A pipe tongs including, an integral yoke for receiving a pipe, a swinging gripping arm pivoted to the outer end of the yoke, an outwardly extending handle member on the pivoted end of the arm having a hand loop on its outer end, a latch pivoted in the handle member and having an operating element extending into the hand loop of the handle member, said latch co-acting with the yoke to hold the arm



in its closed position, and a handle lever pivoted to the inner end of the yoke and engaging with the free end of the arm for gripping a pipe.

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1,693,003. PACKING AND PACKING DEVICE. HOWARD F. SNYDER, Newton, Iowa, assignor, by mesne assignments, to The Maytag Company, Newton, Iowa, a Corporation of Delaware. Filed June 14, 1922. Serial No. 568,157. 5 Claims. (Cl. 308—134.)



2. A shaft packing and lubricating device for washing machines comprising bearings for said shaft, a packing chamber surrounding said shaft, said chamber having side walls connected to the bottom portion of a washing machine and making a tight closure to prevent any leakage from said machine, a plunger chamber eccentrically located with respect to said shaft, a passage extending from said plunger chamber and extending to said passage chamber, a fluidal packing in said chambers and passage, and means in said eccentrically disposed plunger chamber operable to compensate for loss and to lubricate said bearings.

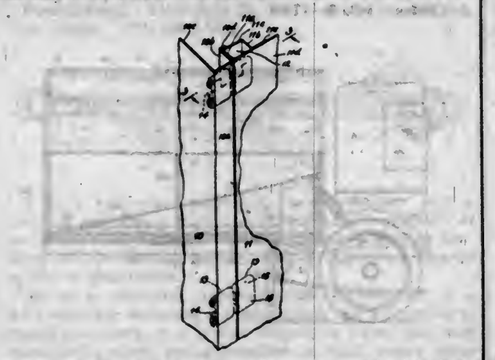
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1,693,004. HINGE. JOSEPH SOSS, Brooklyn, N. Y. Filed Mar. 3, 1927. Serial No. 172,943. 5 Claims. (Cl. 16—164.)

1. In a sheet metal body having spaced and parallel walls, a hinge butt adapted to be mounted in said body between said spaced walls, one of said walls having an aperture



substantially similar to the peripheral contour of the butt and in which the butt is mounted so that the outer face of the butt will lie flush with the outer face of said apertured



wall, and means mounted in connection with the sheet metal body and engaging said butt for retaining the same in connection therewith.

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1,693,005. HAIR WAVER. MARIE CATHERINE STEICHEN, New York, N. Y. Filed Nov. 10, 1927. Serial No. 232,234. 4 Claims. (Cl. 132—48.)



1. A hair waving device comprising lengths of flexible wire secured together in substantially parallel side by side relation and having intermediate the ends of the same transversely bent loops projecting laterally from opposite sides of the device, said loops and the substantially parallel end portions of the wires being independently bendable over a lock of hair laced thereabout.

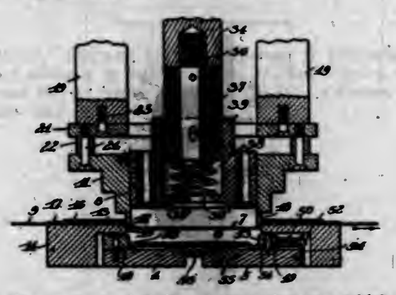
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1,693,006. AUTOMOBILE KEY AND LICENSE HOLDER. EDWARD H. C. THOMAS, Buffalo, N. Y. Filed Sept. 29, 1927. Serial No. 222,785. 3 Claims. (Cl. 150—40.)



1. An automobile key and license holder comprising a plurality of sheet sections united to form a pair of pockets having openings between the sections providing access to the pockets, one of said pockets being adapted to receive a license card, and the other pocket being adapted to receive keys, and a key holder detachably connected with said sections at the open end of the pocket receiving the license for preventing removal of the license in the attached position of the holder, said key holder providing a carrier for keys to be inserted and removed from said key receiving pocket.

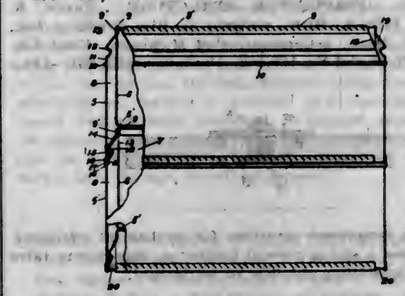
1,693,007. METHOD OF AND APPARATUS FOR LINING CLOSURE ELEMENTS. LOUIS P. TOSCANO, Utica, N. Y., assignor to Fonda Container Co., Inc., Utica, N. Y., a Corporation of New York. Filed Nov. 28, 1924. Serial No. 752,728. 23 Claims. (Cl. 113—80.)



1. The method of lining closure elements which comprises placing a cover element having a beveled or inclined portion upon an anvil, positioning a lining strip upon a holder in registry with the anvil, moving a cutter in registry with the anvil to sever a blank from said strip and moving the blank along the axis of the cutter into engagement with the cover by means of a crimping die moving relative to the cutter and shaping the blank upon said inclined portion by continued movement of the crimping die.

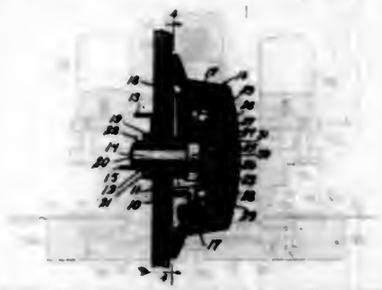
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1,693,008. FURNACE STACK. CHARLES H. WAGNER, Milwaukee, Wis., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 28, 1924. Serial No. 752,663. 1 Claim. (Cl. 137—75.)



A furnace stack, comprising a stack section formed of inner and outer walls in spaced relation, the upper portion of the outer wall being bent to form an outwardly projecting stop rib and then extending upwardly in a straight line to provide an alining portion and then extending inwardly upwardly and then outwardly in spaced relation to the inner wall to form a yielding locking shoulder extending approximately at right angles to the inwardly and upwardly extending portion, said locking shoulder being spaced from the inner wall, the said outer wall then extending upwardly at an angle towards the inner wall to form a guide portion, and then extending upwardly in a straight line to form an alining part and is then bent downwardly to form a channel into which the upper edge of the inner wall extends and is secured, the lower portion of the inner wall being bent inwardly to form a stop rib and then extending downwardly in a straight line for a short distance and then inclined downwardly outwardly to the outer wall to form a guide part and then bent inwardly approximately at right angles to the inclined portion and then is bent downwardly outwardly to form a non-yielding locking shoulder which contacts with the outer wall, the lower edge portion of said inner wall then extending downwardly in a straight line and then bent outwardly and upwardly to form a channel into which the lower edge of the outer wall extends and is secured, the corner portions of said stack section being open to permit the circulation of air through said openings.

1,693,009. RHEOSTAT. CHESTER E. WARNER, Berwyn, Ill., assignor to Benjamin Electric Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 26, 1925. Serial No. 4,636. 6 Claims. (Cl. 201—48.)



1. A rheostat construction comprising a panel having an opening therethrough, a metal bushing extending through said opening, said bushing being provided with a wiring terminal in the rear of the panel, a metal stud extending through said bushing and insulated therefrom, said stud being provided with a wiring terminal in the rear of the panel, an insulating knob rotatably mounted on said stud in front of said panel, a resistance coil mounted on said knob and electrically connected with said stud and a contact mounted on said bushing and electrically connected therewith and engaging said resistance coil.

1,693,010. COMPRESSOR STRUCTURE. FRANK R. WEST, Detroit, Mich., assignor to Rice Products Inc., Detroit, Mich., a Corporation of Michigan. Filed Feb. 16, 1927. Serial No. 168,502. 10 Claims. (Cl. 251—119.)



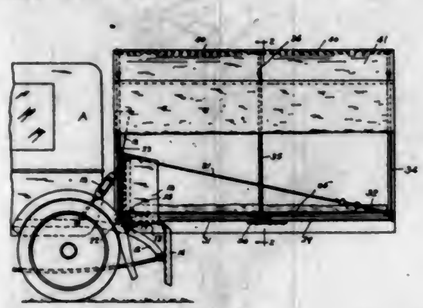
1. In a compressor structure for mechanical refrigerating systems, a spring pressed laminated, imperforate valve disk for controlling the flow of refrigerant.

1,693,011. METHOD OF PERFORATING CASINGS. RICHARD C. WOODWARD, Los Angeles, Calif., assignor to McEvoy Wireless Well Strainer Corporation, Los Angeles, Calif., a Corporation of California. Filed Sept. 28, 1925. Serial No. 59,231. 1 Claim. (Cl. 29—163.5.)



A method of perforating a casing by means of a punch and die which comprises first advancing the punch against the casing to its most extended position thereby producing a bulge in the casing around the punch, and then advancing the die against the bulge while holding the punch in fixed position is such manner as to iron out the bulge against the punch and force part of the material outwardly to form an opening and part of the material laterally to compress the walls of the opening and harden the same.

1,693,012. TRUNK, FOLDABLE BED-SUPPORTING STRUCTURE, AND CANOPY. JOHN K. WRIGHT, Denver, Colo. Filed July 1, 1926. Serial No. 119,935. 3 Claims. (Cl. 5—119.)



2. The combination with an automobile having rearwardly extending frame members, of a trunk mounted upon said frame members rearward of the body of the automobile, downwardly and forwardly extending braces connecting the top of the trunk to said frame members, and a foldable bed structure mounted within the trunk and including flexible elements connecting the outer extremities of the bed structure with the top of the trunk and entirely supporting the rear end of the bed structure when the latter is unfolded.

1,693,013. CASING-DRILLING MACHINE. MAYNARD N. YOUNG, Healdsburg, and DONALD C. PATTERSON, Geyserville, Calif. Filed Oct. 16, 1926. Serial No. 141,913. 4 Claims. (Cl. 77—6.)



1. A drilling machine for well casings positioned within a well, comprising a shell for lowering into a casing and to be guided thereby, a drill bit carried by the shell with its end lying within the shell wall and capable of lineal movement radially thereof to project beyond the same and for rotation during its lineal movement for penetrating the well casing, an electric motor carried by the shell, driving connections between the motor and drill bit and operated in a single direction by the motor for automatically imparting simultaneous lineal and rotative movement to the drill bit, a motor operating circuit extending exteriorly of the casing, and means for automatically interrupting said circuit on the drill bit completing a lineal cycle of operation with its point free of the casing wall.



1,693,014. CONVEYING APPARATUS. MARTIN J. ANDERSON, Ellwood City, Pa., assignor to Mathews Conveyer Company, Ellwood City, Pa., a Corporation of Pennsylvania. Filed July 29, 1927. Serial No. 209,312. 21 Claims. (Cl. 198—38.)

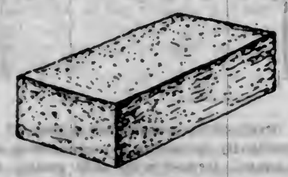


1. In a conveying apparatus, the combination with a conveyer including a main conveyer belt, of a plurality of conveyer rollers interposed in said conveyer, and an auxiliary belt frictionally engaged with said belt and adapted to rotate said rollers.

12. In a conveying apparatus, the combination of a main conveyer including a conveyer belt and a plurality of branch conveyers, of a carrier adapted to travel over said conveyers, control means provided on said carrier selectively cooperable with means over said main conveyer for diverting said carrier onto a selected branch conveyer, and a plurality of rollers in said main conveyer at the junction of each branch conveyer, having a driving connection with said main conveyer belt, said rollers constituting a portion of said main conveyer.

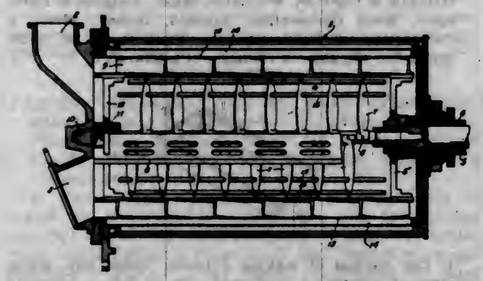
20. A conveying apparatus comprising a main conveyer belt, a depressed section in a run of said belt, a plurality of rollers mounted in said depressed section and arranged transversely of said belt, vertical guides for said rollers, and means operatively connecting said rollers with said belt, when a load passes thereover.

1,693,015. LIGHTWEIGHT MOLDED ARTICLE AND METHOD OF MAKING THE SAME. JOSEPH ALBERT BABOR, Elmhurst, and WILLIAM LUDLOW ESTABROOKE, Yonkers, N. Y. Filed Jan. 9, 1924. Serial No. 685,105. 6 Claims. (Cl. 106—19.)



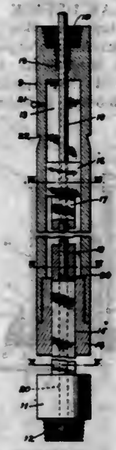
1. A molded article comprising exfoliated sonolite and a binder.

1,693,016. DASHER FOR ICE-CREAM FREEZERS. RALPH B. BAGBY, Cedar Rapids, Iowa, assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del., a Corporation of Delaware. Filed Oct. 24, 1924. Serial No. 745,562. 2 Claims. (Cl. 259—9.)



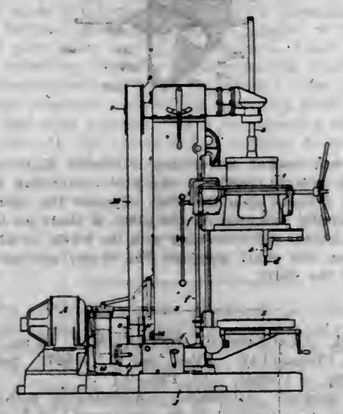
1. In an ice cream freezer, a revoluble dasher comprising a shaft, a plurality of independent angularly disposed beater blades projecting radially of the shaft and arranged in series extending lengthwise of the shaft to move a mixture longitudinally of the dasher, each series of blades having a round section rod extending therethrough and spaced from the shaft.

1,693,017. ROTARY DRILL. HERBERT D. BARTHOLOMAE and WILLIAM A. BARTHOLOMAE, Jr., Los Angeles, Calif. Filed May 11, 1926. Serial No. 108,411. 3 Claims. (Cl. 255—28.)



1. A slip joint for connecting two portions of an earth boring drill stem comprising an element having an axially polygonal opening therein, an element having a cooperating polygonal portion slidably and non-rotatably fitting within the opening, the two elements being non-rotatable relatively but having a relative axial movement, stop means limiting such movement to prevent separation of the elements, and a pipe extending through one element into the joint and having a sliding telescopic connection with a bore through the other element.

1,693,018. SUCCESSIVE PULLEY DRIVE FOR DRILLING MACHINES. WILLIAM F. BOCKHOFF, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Feb. 26, 1924. Serial No. 695,250. 8 Claims. (Cl. 77—22.)

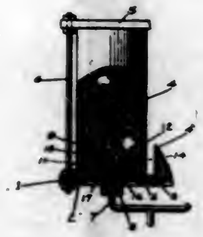


1. Apparatus of the class described, comprising a work-support, a tool-carrier, means to cause relative feeding

movement of said work-support and tool-carrier, means to impart to said tool-carrier an operative movement in predetermined ratio with said relative feeding movement, and means to compensate for casual adventitious variations in said ratio, said means including co-axial driving and driven pulleys of unequal widths, a belt driven by one of said pulleys and driving the other of said pulleys; and independent trains of mechanism driven respectively by the belt and said last named pulley.

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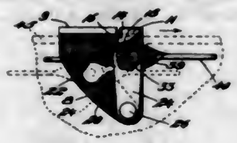
1,693,019. OIL-DISPLAY DEVICE. HANS M. BOE, Minneapolis, Minn., assignor to Boe Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Original application filed Mar. 16, 1927, Serial No. 175,903. Divided and this application filed Dec. 29, 1927. Serial No. 243,349. 3 Claims. (Cl. 40—126.)



1. In combination, a container of transparent material having liquid therein, an element submerged in the liquid and having a downwardly facing concave side and means for delivering gas beneath the element, said element having two compartments and being rockably mounted, the arrangement being such that gas is first delivered into one compartment, to cause the element to swing and release a bubble, and when so swung to dispose the other compartment to receive gas.

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1,693,020. CAN OPENER. HUDGER BRUNEAU, Woonsocket, R. I. Filed Nov. 17, 1927. Serial No. 233,780. 5 Claims. (Cl. 30—3.)

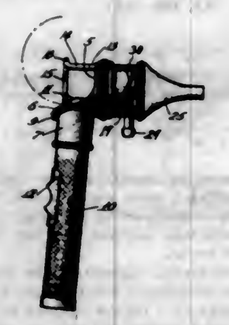


1. A can opener comprising a carrier plate provided with an opening, teeth on the plate extending into the opening, a blade upon the plate adjacent the opening, an arm pivotally mounted on the plate, a shaft on the arm, a pinion on the shaft meshing with the teeth, an advancing disk upon the shaft adjacent the blade, and means for rotating the shaft.

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1,693,021. DIAGNOSTIC INSTRUMENT. WILL J. CAMERON, Chicago, Ill. Filed Jan. 12, 1927. Serial No. 160,636. 5 Claims. (Cl. 128—9.)

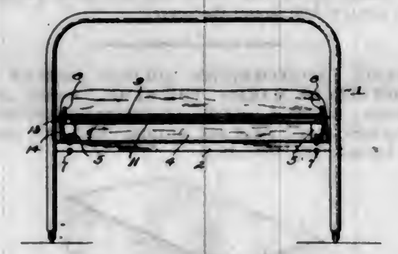
1. A surgical instrument comprising a hollow body providing a cylindrical sight passageway and providing means for directing the light rays beyond the body, a lamp at one end of said passageway, an air-inlet stub communicating with the interior of said passageway to illuminate an object beyond the passageway, and a light transmitting wall extending across said passageway between



said lamp and stub and sealed to the wall of the passageway whereby to permit the discharge of air from the end of the passageway opposite the lamp.

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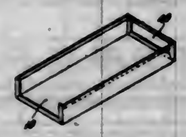
1,693,022. COVER-CLAMPING MEANS FOR BEDSTEADS. WILLIAM ELMER CHAPMAN, Columbus, Ohio. Filed Aug. 1, 1927. Serial No. 209,776. 3 Claims. (Cl. 24—72.5.)



1. A bed cover clamp comprising a pair of end plates and a longitudinally extending bar connecting said plates, upstanding guards formed with said plates, a clamping bar slidably mounted for movement relative to said first named bar and having the ends thereof provided with openings for the reception of said guards, tongues formed with the ends of said clamping bar, and spring means attached to the plates and detachably connected with the tongues of said clamping bar.

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1,693,023. METHOD OF MAKING PAPER BOXES. WILLIAM S. CLEAVES, Wollaston, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Massachusetts. Filed Sept. 29, 1926. Serial No. 138,459. 3 Claims. (Cl. 93—43.)

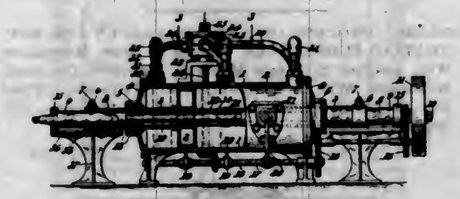


1. The method of making a double ended box, which consists in severing a cardboard strip to form a plurality of blanks, each including a bottom portion, side portions integral therewith, and end flanges upon the side portions, severing a second cardboard strip to form a plurality of individual detached end blanks, adhesively affixing finishing strips to the outer surfaces of both cardboard strips before formation of the blanks, and folding, while the cardboard is in strip form, the finishing material over the side edges of the first strip and over the side edges of the end forming strip, and thereafter assembling a body blank and two of the detached end blanks in box forming relation and adhesively affixing the end blanks to said end flanges.



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1,693,024. DOUBLE-ACTING TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. GERALD DRUMMOND, Worcester, England. Filed June 2, 1923, Serial No. 643,048, and in Great Britain Aug. 14, 1922. 4 Claims. (Cl. 123—58.)



1. An internal combustion engine having, in combination, a cylinder, a shaft disposed in the cylinder, two pistons oppositely disposed in the cylinder, means connecting the pistons to the shaft to convert reciprocating movement of the pistons into rotary movement of the shaft, means whereby the pistons are adapted to be reciprocated in the cylinder simultaneously towards and from each other, the portions of the cylinder on both sides of the pistons constituting combustion chambers, and a sleeve in the cylinder surrounding the shaft to constitute a heat insulator for the shaft.

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1,693,025. PRESERVATION OF CHEESE. ELMER E. ELDREDGE, Wilmette, Ill., assignor to Kraft-Phenix Cheese Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 10, 1927, Serial No. 167,366. Renewed May 18, 1928. 4 Claims. (Cl. 99—11.)

4. The improvement in the art of preventing deterioration in cheese while preserving its desirable characteristics, which consists in comminuting the cheese, mixing with the comminuted material a relatively small percentage of water soluble pectin while not exceeding a temperature of 125° F., subdividing the mixed material, introducing the same into closed shipping receptacles and then heating the material while in the containers to a temperature not materially in excess of 150° F., while maintaining the contents of the containers substantially quiescent.

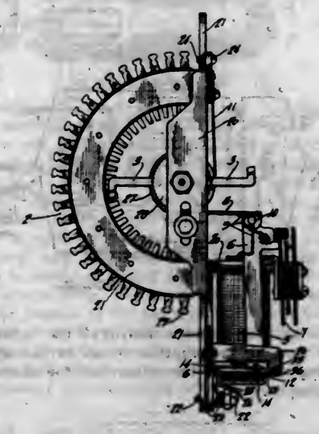
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1,693,026. PRESERVATION OF DAIRY PRODUCTS. ELMER E. ELDREDGE, Wilmette, Ill., assignor to Kraft-Phenix Cheese Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1927. Serial No. 198,697. 11 Claims. (Cl. 99—11.)

11. The method of improving the keeping quality of cheese which consists in incorporating with the starting material a relatively small percentage of gum tragacanth, while not exceeding a temperature high enough to impair desirable properties of the cheese, sub-dividing the mass and introducing it into shipping containers, and subsequently heating the material while in the containers sufficiently to destroy contained deleterious agents.

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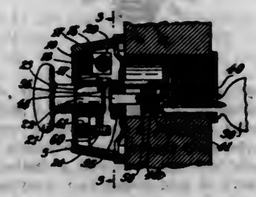
1,693,027. AUTOMATIC SWITCH. JOHN ERICKSON, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 29, 1921. Serial No. 465,356. 8 Claims. (Cl. 200—105.)



1. In a step by step switch, a driving magnet, an armature for said magnet, and a pole piece inserted in said armature adjacent to the core of said magnet adapted to engage the core when said armature is attracted, said pole piece being adjustable relative to the armature to limit the stroke thereof.

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1,693,028. DOOR-SECURING MECHANISM. EDWARD E. GAGE, New York, N. Y. Filed Dec. 16, 1925. Serial No. 75,850. 4 Claims. (Cl. 70—29.)



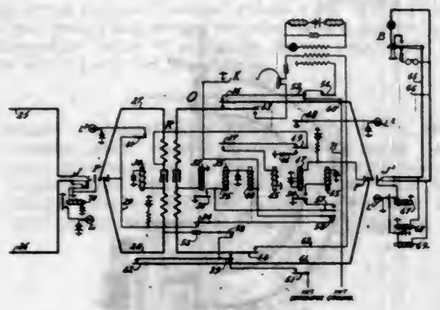
1. In a door securing mechanism, a securing bolt, a casing within which said bolt is housed, a rotatable member within said housing for moving said bolt into and out of operating position, a key operated tumbler lock mechanism including a rotatable barrel, a stem connected with said rotatable member, an apertured plate through which said stem extends, screws for securing said apertured plate to the barrel and a notched plate secured to the end of the stem cooperating with said screws to provide a lost motion connection between the stem and the barrel whereby the movement of the key to move the bolt into a fully extended position will bring said key into a position of withdrawal from the lock and leave the bolt in a dead locked position.

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1,693,029. CORD CIRCUIT. ROY F. GOULD, Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 23, 1927. Serial No. 177,548. 11 Claims. (Cl. 179—27.)

1. In a telephone system, called lines, a source of current permanently connected in bridge thereof, a cord circuit for answering incoming calls and for extending connections to said lines, a source of intermittent ringing current for signalling said lines, a relay responsive

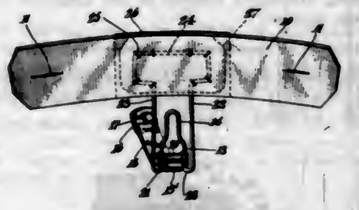
to the connection of the cord with a line to cause said ringing current source to be applied thereover without disconnecting said current source in bridge of the called



line, and a relay placed under control of the called subscriber, each time an interruption occurs in the application of ringing current to the called line for disconnecting said ringing current.

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1,693,030. GARMENT SUPPORT. GEZA GREENBERG, New York, N. Y. Filed Sept. 28, 1926. Serial No. 138,221. 3 Claims. (Cl. 241—7.)



1. A garment support for men's wear comprising a holding band adapted to be mounted at a pair of ordinary trouser suspender buttons, a metal frame secured to said band between the ends thereof and including an upwardly extending pinch fastener loop and a limber tab hinged at the lower part of said frame and carrying the button of the pinch fastener loop for pinching the shirt material between the sides of the loop.

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1,693,031. FLUID INDICATOR. HERBERT HASTINGS, Brighton, N. Y. Filed May 21, 1924. Serial No. 714,948. 15 Claims. (Cl. 116—117.)



1. In combination with a liquid feed system a feed tube provided with vertically spaced inlet openings disposed below the normal surface of the liquid to be fed and adapted to take in proportions of air and liquid varying as the depth of said liquid varies and means including a piston operated by said varying proportions of air and liquid for indicating successively the fall of liquid below said openings.

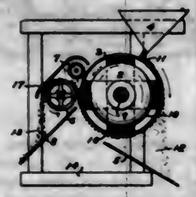
1,693,032. FLOATING-VALVE SEAT. GUY J. HENRY, Chicago, Ill. Filed Oct. 29, 1926. Serial No. 144,945. 1 Claim. (Cl. 251—46.)



In a valve, a valve seat, a valve face member adapted to contact therewith, a valve stem having a groove adjacent its lower end, bearing members seated in said valve face member and projecting into said groove, said bearing members permanently withholding said valve stem from direct contact with said valve face member.

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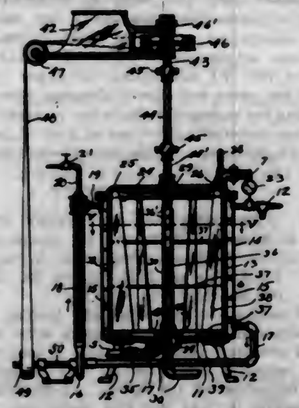
1,693,033. PROCESS OF AND APPARATUS FOR SEPARATING SUBSTANCES. JAMES L. HOPE, Milwaukee, Wis., assignor to Ding's Magnetic Separator Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 29, 1924. Serial No. 758,530. 3 Claims. (Cl. 209—227.)



1. The method of separating materials, which comprises, producing a movable magnetic field having an upwardly advancing portion and having another portion approaching the lower end of said upwardly advancing portion, precipitating a mixture of magnetic and non-magnetic particles into said upwardly advancing field portion to cause the non-magnetic particles to gravitate therethrough and to cause the magnetic particles to remain and travel downwardly along said upwardly advancing portion and then along said approaching portion, and subsequently removing the separated magnetic particles from said approaching field portion.

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1,693,034. METHOD OF PASTEURIZING LIQUIDS. AAGE JENSEN, Los Angeles, Calif. Filed Feb. 2, 1926. Serial No. 85,471. 3 Claims. (Cl. 99—15.)



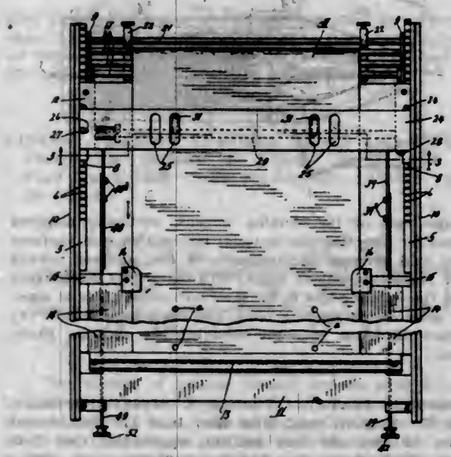
3. The method of pasteurizing liquids, which comprises subjecting the liquids in a closed chamber to a sufficiently



strong centrifugal action to cause said liquids to rise up on the side walls of said chamber, raising the temperature of the liquids to effect pasteurization by means of a heating fluid under pressure, and withdrawing deleterious gases centrally from said chamber by means of suction.

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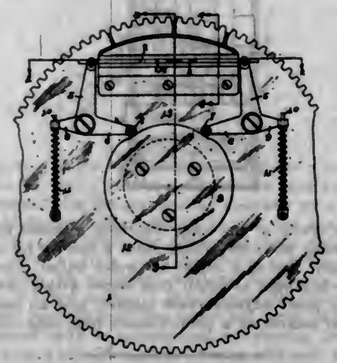
1,693,035. REGISTERING PAPER WEBS. LOUIS JENSEN, Chicago, Ill., assignor to United Autographic Register Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 25, 1926. Serial No. 83,645. 20 Claims. (Cl. 197—133.)



1. A device of the kind described comprising a suitable support, a horizontal table positioned thereon across which perforated paper webs are moved, a frame mounted adjustable towards and away from said table, said frame including a cross-piece past which the paper is moved to the table, a rock-shaft on said frame, pin-members projecting from said rock-shaft into coaction with said cross-piece whereby to arrest the movement of the paper towards the table by engagement in perforation in the webs.

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1,693,036. TYPE-CASTING MOLD. WILLIAM E. KIER, Chicago, Ill., assignor to Individualizing Company of Illinois, Chicago, Ill., a Corporation of Illinois. Filed July 25, 1924. Serial No. 728,058. 9 Claims. (Cl. 199—57.)



1. In a slug casting machine, a rotary member formed with a mold for casting slugs, slot forming elements slidable into and out of the ends of said mold, bell crank levers pivoted upon said member, one arm of each lever being connected to a slot forming element, a stationary cam whereby said elements are withdrawn from said mold, and yielding means for injecting said elements into said mold.

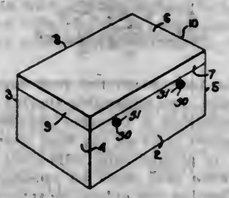
1,693,037. BILLIARD-CUE-TIP HOLDER. ROBERT E. MARLEY, Culver City, Calif. Filed Mar. 22, 1926. Serial No. 96,572. 1 Claim. (Cl. 273—70.)



In combination with a billiard cue, a ferrule over an end of said cue having an inwardly threaded surface on its outer end and a cylindrical shoulder member on its inner end, a cap having internal threads on its outer end engaged over said threaded surface on said ferrule and adapted to rest with its inner end against the outer end of said shoulder member, and a tip engaged by said internal threads in said cap to assist in holding the tip from disengagement and projecting from said cap, the portion of said tip in said cap resting against the end of said cue to relieve strain from the treads on said ferrule and cap caused by impact of the tip against billiard balls and the outer end of said cap being burred inwardly to form an inner stop shoulder for holding the tip from outward movement and said ferrule and cap being of substantially even diameter corresponding with said cue.

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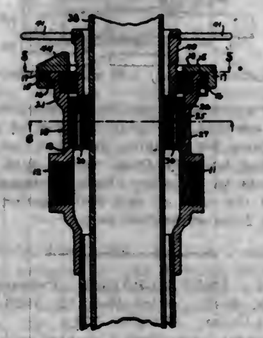
1,693,038. SECRET-LOCK BOX. THEODORE MELDER, Roxbury, Mass. Filed Oct. 15, 1927. Serial No. 226,479. 9 Claims. (Cl. 206—1.5.)



1. A secret-lock box comprising a receptacle and a cover normally positioned to register therewith, concealed cooperating locking devices rigidly secured respectively to said receptacle and said cover, means connecting said cover to said receptacle operable to permit swinging and relatively sliding movements therebetween and resilient means acting to maintain said locking devices interlocked when the cover is in closed position, but yieldable upon relative sliding movement to permit the locking devices to be disengaged and the cover swung to open position.

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1,693,039. BLOW-OUT DEVICE FOR OIL WELLS. BURT S. MINOR, San Pedro, Calif., assignor to Regan Forge & Engineering Company, San Pedro, Calif., a Corporation of California. Filed June 9, 1926. Serial No. 114,604. 2 Claims. (Cl. 166—14.)

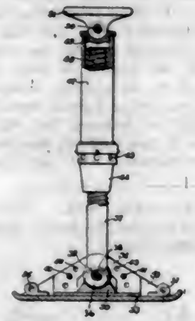


1. In a blow out device for oil wells, a vented casing head member adapted to be detachably secured to the up-

per end of a well casing, a packing ring seated in the head above the vented openings, an internally threaded ring seated in the head above the packing ring, means formed on said ring for preventing a rotary movement of the same an externally threaded sleeve engaging the threaded ring and bearing against the packing ring to expand the the same laterally, and a locking ring secured to the head to maintain the threaded ring against vertical movement.

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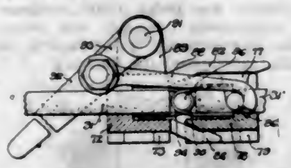
1,693,040. MINING SYSTEM AND APPARATUS. EDMUND C. MORGAN, deceased, New York, N. Y., by Olive Eugenie Morgan, executrix, New York, N. Y. Original application filed Aug. 11, 1921, Serial No. 491,474. Divided and this application filed Aug. 10, 1925. Serial No. 49,465. 7 Claims. (Cl. 254—101.)



1. In a mine jack, a pivoted roof supporting shoe, a pivoted floor shoe, and adjustable spacing means between said shoes comprising a threaded standard, spaced and upstanding parallel faces on the floor shoe between which said standard is pivoted, and adjustable stops bridging the space between said faces on opposite sides of said standard for limiting the pivotal movement of the standard, said stops comprising pins, and a series of openings in said spaced faces at different distances from the pivotal mounting for the standard for the reception of the ends of said pins.

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1,693,041. BELT FASTENER FOR CONVEYERS. EDMUND C. MORGAN, deceased, New York, N. Y., by Olive E. Morgan, executrix, New York, N. Y. Original application filed Aug. 11, 1921, Serial No. 491,474. Divided and this application filed Sept. 16, 1925. Serial No. 56,589. 3 Claims. (Cl. 254—52.)

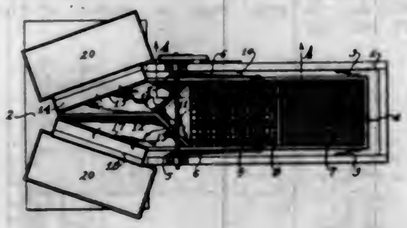


1. In conveyer mechanism, the combination with a belt, of a clamp adapted to engage one end of said belt, an additional clamp for engaging the other end of said belt, pins extending laterally from one of said clamps, and a pair of hooks on the other clamp for engaging the said pins to hold the ends of said belt together while being connected to form an endless belt.

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1,693,042. PRUNE GRADER. PRESSLEY MOTHORN, Healdsburg, Calif. Filed Mar. 12, 1928. Serial No. 260,864. 1 Claim. (Cl. 209—259.)

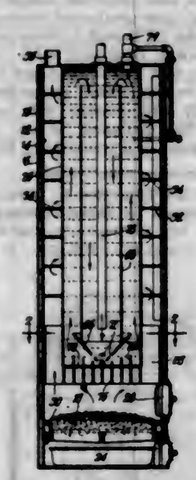
A prune grader comprising a shaking table provided at one end with a plurality of shaking screens disposed in superimposed horizontal planes, said table side walls at its opposite end being obliquely disposed and converging to a point, means for imparting a longitudinal vibratory movement to the frame to cause the prunes supported by the screens to travel longitudinally thereof, means for receiving the prunes from the surface of the shaking screens, comprising superimposed surfaces disclosed with their receiving ends in parallel alignment with the dis-



charge ends of the shaking screens, vertically disposed means for directing the material received on said surfaces from said screens longitudinally of the surfaces toward their respective oblique edges, with the prunes discharging from the oblique edges in the same horizontal plane at opposite sides of the shaking table, and fixed bins beneath the surface discharge ends for receiving the material therefrom.

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1,693,043. HEATER. THOMAS E. MURRAY, Brooklyn, N. Y. Original application filed June 17, 1924, Serial No. 720,486. Divided and this application filed Dec. 18, 1925. Serial No. 76,148. 2 Claims. (Cl. 122—159.)



1. In a device of the class described, a vessel having a longitudinally extending inner shell, a closure for one end of said shell having a restricted water outlet therein, an inlet pipe arranged to admit feed water within said inner shell at a point adjacent said closure, and an outlet for said vessel located at a point remote from said closure.

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1,693,044. METHOD OF MAKING AXLE-HOUSING BLANKS. THOMAS E. MURRAY, Jr., Brooklyn, N. Y. Filed Feb. 2, 1923. Serial No. 616,487. 3 Claims. (Cl. 29—153.1.)

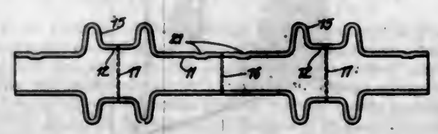
1. The method of producing a flat nonrectangular sheet metal blank for a segment of an axle housing of uniform thickness throughout its extent and comprising a body portion with one or more lateral and end projections therefrom, said method including the building up of a sheet of rectangular contour by welding together edge to



edge pieces of the same thickness, each piece being larger than the portion of the sheet which it forms, and cutting off the edge portions of said pieces to change the sheet to the desired contour.

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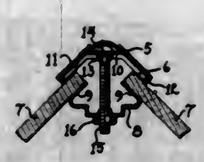
1,693,045. MAKING FLANGED TUBES AND OTHER PRODUCTS. THOMAS E. MURRAY, Brooklyn, N. Y. Filed June 8, 1923. Serial No. 644,188. 2 Claims. (Cl. 29—153.1.)



1. The method of making tubular articles with flanges of double thickness which consists in forming segments of sheet metal bent to V-shape at a plurality of determined points in their length, uniting such segments by butt-welding their edges together to form a tubular blank with said bent portions of the opposite segments in register so as to form hollow V-shaped flanges, dividing said tubular blank transversely at points between one such V-shaped flange and the next and bending such V-shaped flanges to bring the opposite sides together and form ninety-degree flanges of double thickness.

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1,693,046. DEVICE FOR SECURING PLATE GLASS. CHARLES G. NELSON, Chicago Heights, Ill., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill., a Corporation of Illinois. Filed May 31, 1927. Serial No. 195,212. 1 Claim. (Cl. 189—78.)

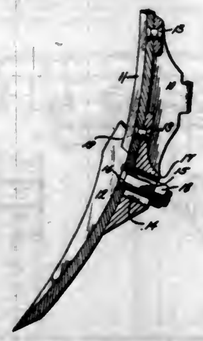


In a device of the character described, the combination of a front bar and a rear bar, one of said bars having reversely turned side flanges forming channels with parallel sides, said flanges being adapted to rest flat against one face of the glass while the other bar rests against the opposite face, a draw plate insertible endwise beneath one bar with its marginal portions engageable in said channels, a screw having a shank extending through the draw plate and through the other bar, said draw plate being formed with a countersunk noncircular seat, said screw having a shouldered head fitting said seat and normally concealed by the adjacent bar, said adjacent bar being so formed that normally its inner face is approximately in contact with the head of the screw, locking the same positively against both rotation and removal from its seat as long as the draw plate remains in the bar, and a nut cooperating with the end of the shank to draw the bars into clamping relation to the glass.





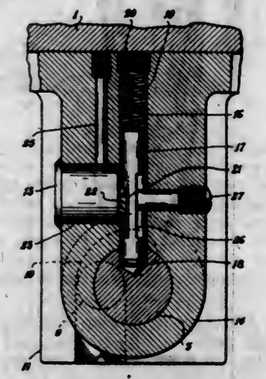
1,693,047. CULTIVATOR-SHOVEL STRUCTURE. CHRISTIAN OSMUNDSON, Webster City, Iowa. Filed June 22, 1925. Serial No. 38,729. 1 Claim. (Cl. 97—203.)



A cultivator shovel comprising a support adapted to be mounted on a cultivator, a parallel sided shank rigidly connected with the upper portion of said support, said support having a slot in its lower portion, a shovel engaging said lower portion and having in its upper end a notch having parallel sides to receive the lower end of the shank and engage the sides thereof, a bolt extended through the shovel and through said slot and a nut on said bolt, the sides of said slot in the shovel coacting with said shank and in conjunction with said bolt serving to hold the shovel rigidly in position with respect to said support even when the bottom of the notch is spaced from the bottom of the shank.

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1,693,048. AUTOMATIC PRESSURE-SYSTEM LOCK. JOHN P. PACA, Canton, Ohio, assignor to The Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed June 16, 1926. Serial No. 116,334. 9 Claims. (Cl. 109—11.)



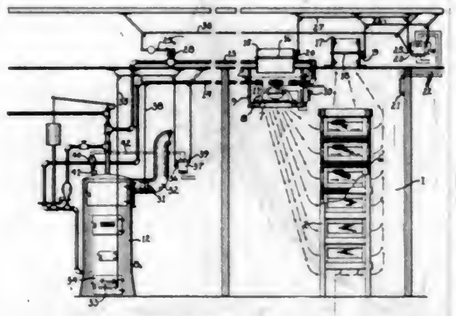
1. In a vault door or the like, the combination of a pressure system for the door including a rotating shaft, a bearing for the shaft, there being an aperture in the bearing, and there being a socket in the shaft for registering with the aperture, a plunger in the bearing aperture, and means automatically moving the plunger into the shaft socket when the socket registers with the aperture.

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1,693,049. CHICK BROODER. ESTA M. PIERCE, Bowling Green, Ohio, assignor to The Bowling Green Poultry Supply Company, Bowling Green, Ohio, a Corporation of Ohio. Filed June 27, 1927. Serial No. 201,849. 4 Claims. (Cl. 236—6.)

1. A brooder having a closed chamber, air inlet and outlet vents for said chamber, a fan in the region of said

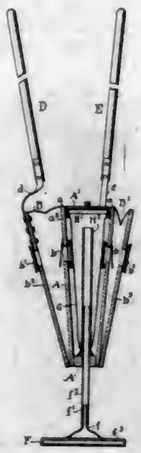
inlet vent for drawing air into said chamber and maintaining circulation therein, heating means adjacent said inlet vent, means controlling the operation of said heating



means, valves controlling said vents, and means common to said valves and said controlling means for automatically operating the same in accordance with the temperature conditions within the chamber.

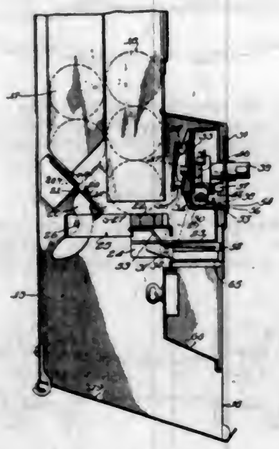
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1,693,050. VACUUM CLEANER. THOMAS PROCTOR, Nelson, England. Filed Apr. 24, 1925, Serial No. 25,649, and in Great Britain May 29, 1924. Renewed May 12, 1928. 1 Claim. (Cl. 15—17.)



In a device of the character described, an elongated receptacle open at its top and having downwardly converging walls, a pipe fixed in the lower end of said receptacle and carrying an elongated suction nozzle at its lower end, a second pipe having a flared lower end removably fitting over the upper end of said first mentioned pipe, a dust bag in said receptacle provided with an open upper end registering with the open end of said receptacle and having its lower end secured to said second pipe adjacent the lower end thereof, a removable lid closing the open top of said receptacle and of said dust bag, a pair of bellows in communication with said receptacle and mounted on opposite sides of said receptacle, the bellows being connected by a rod for simultaneous operation, and handle means for operating said bellows.

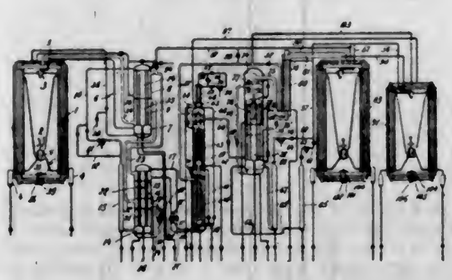
1,693,051. VENDING MACHINE. MYRON H. RICHARDSON and ALFRED D. ANTOINE, Chicago, Ill., assignors to Advance Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1924. Serial No. 721,661. 13 Claims. (Cl. 194—63.)



1. A vending machine including a container for the articles to be vended, an ejector for the articles, check controlled means for actuating the ejector, and means controlled by the articles in the said container for rendering the ejector inoperative by the check controlled means, the second recited means embodying an element adapted to be positioned in the path of movement of the check from the check seat in the check carrier for maintaining the check against delivery from the check carrier.

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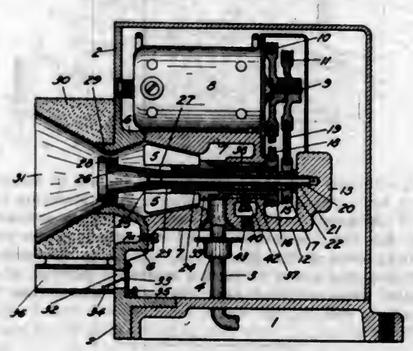
1,693,052. SEPARATION OF GASES FROM GASEOUS MIXTURES. MONTAGUE H. ROBERTS, Jersey City, N. J., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Jan. 25, 1919. Serial No. 273,186. 1 Claim. (Cl. 183—15.)



In a process of obtaining helium from natural gas, compressing and cooling the gas, expanding the cooled compressed gas and thereby liquefying a portion thereof, subjecting the remaining expanded gas to successively lower temperatures to condense its constituents other than helium in the order of their liquefying temperatures at the pressure to which they were expanded, collecting the liquids separately, and utilizing said liquids separately in cooling the gas to the said successively lower temperatures; whereby helium in gaseous form is concentrated as a final residue; and conducting off and collecting such final residue.



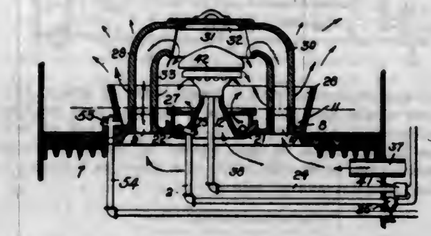
1,693,053. FLUID-FUEL HEATING APPARATUS AND METHOD OF FORMING A COMBUSTIBLE MIXTURE. HILMER F. RODLER, Davenport, Iowa. Filed Aug. 12, 1926. Serial No. 128,857. 10 Claims. (Cl. 158—77.)



1. In a device of the character indicated, a pipe rotatable about its longitudinal axis, a hollow member surrounding said pipe and rotatable in the opposite direction therefrom, air vanes carried by said hollow member near the extremity of the rotatable pipe, a tapered nozzle carried by the pipe and having its delivery end slightly beyond the air vanes, and means for feeding fluid fuel to said pipe.

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1,693,054. HYDROCARBON BURNER. ALEXANDER E. SCHEIN, Flushing, N. Y. Filed Oct. 30, 1926. Serial No. 145,335. 6 Claims. (Cl. 158—80.)



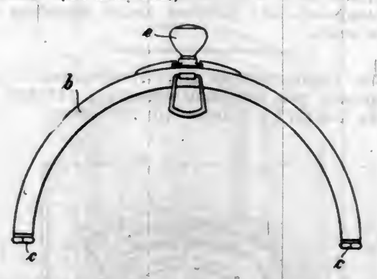
1. In an oil burner of the character described, the combination with a base plate having a central opening, a hollow pedestal on the base plate and above and communicating with the opening therein, an oil distributing plate thereon having a downwardly extending lip stepped therefrom, means for conveying oil to said plate, a crown surmounting said distributing plate having a chamber therein, means for maintaining spaced relation between the crown and the distributing plate, air ports below said plate for deflecting the oil vapors, and other air deflecting means for directing the air toward the pedestal.

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1,693,055. PHARMACEUTICAL PREPARATIONS AND PROCESS OF MAKING SAME. WALTER SCHOELLER, Berlin-Westend, and KURT SCHMIDT, Berlin-Friedenau, Germany, assignors to the Firm: Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Filed July 28, 1927, Serial No. 209,174, and in Germany Aug. 2, 1926. 4 Claims. (Cl. 260—108.)

1. The process of producing iodine-substituted benzonitrils having a phenol ether-like linkage of the type R—O—R'—CN, wherein R and R' are iodine-substituted aryl radicals, comprising heating an iodine-substituted phenol ether with a metal salt of an iodine-substituted oxybenzo nitril in the presence of copper to a temperature between 210 and 240° C.

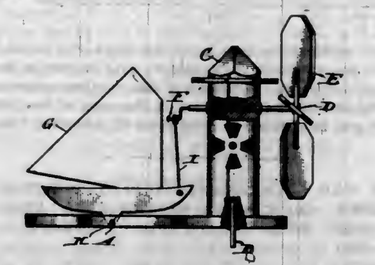
1,693,056. FASTENER FOR THE MOUTH FRAMES OF HAND BAGS. CHRISTIAN JOHANN GEORG SCHWARZ Offenbach-on-the-Main, Germany. Filed Oct. 11, 1926, Serial No. 140,898, and in Germany Aug. 25, 1926. 4 Claims. (Cl. 292—204.)



1. A fastener for mouth frame for hand bags, portmanteaus and the like comprising two bars, a pintle secured on one of said bars and adapted to be tilted thereon, a catch on said pintle, a counterpart to said catch on the other bar, a handle rotatably seated on said pintle, a pawl on said first-mentioned bar, and a part on said handle which is adapted to be retained by said pawl in a given position of said handle so as to prevent tilting of said pintle and to be released after said handle has been rotated out of this given position.

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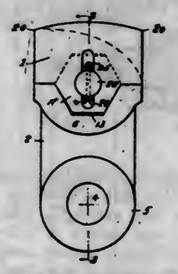
1,693,057. TOY WINDMILL. WALTER B. SCOTT, Marblehead, Mass. Filed June 15, 1925. Serial No. 37,252. 1 Claim. (Cl. 46—14.)



A wind toy comprising a wind wheel, a rocking sailboat having a sail, a vertical pivot therebetween about which both wheel and sailboat simultaneously revolve, means connecting the wheel and boat whereby axial rotation of the former rocks the latter, the shape of the sail being such as to have a relatively large height at a point removed from the vertical pivot whereby the sail simulates and has the function of the vane of a wind-mill.

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1,693,058. ROTARY PIVOTED HAMMER. HARRY J. SHELTON, University City, Mo. Filed Jan. 18, 1928. Serial No. 247,539. 6 Claims. (Cl. 83—11.)

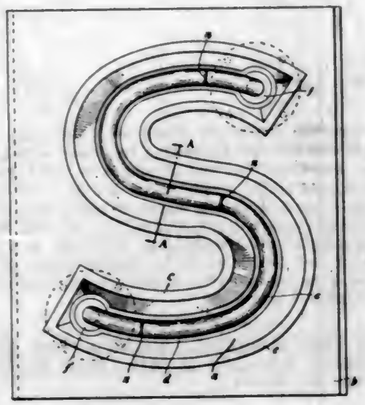


1. A rotary pivoted hammer comprising a pivotal shank having a terminal tenon tapering radially outward and a

lateral recess at each side of said tenon tapering radially inward, a head detachably mounted on said shank and having a mortise and depending lateral lugs corresponding to said tenon and recesses respectively—the adjacent faces of said tenon with recesses and mortise with lugs being hexagonal,—and fastening means connecting said head and shank.

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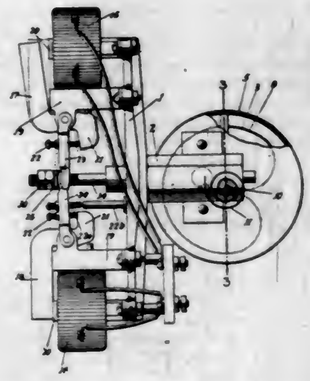
1,693,059. LUMINESCENT ADVERTISING SIGN. OTTO B. SHULHOF, New York, N. Y. Filed Aug. 11, 1927. Serial No. 212,157. 6 Claims. (Cl. 40—130.)



6. The combination in a letter for signs of a panel upon which is superimposed a character; said character having a beveled and grooved channel of like contour wherein the groove of the channel is located at the apex of the beveled channel and is adapted to receive an illuminating tube.

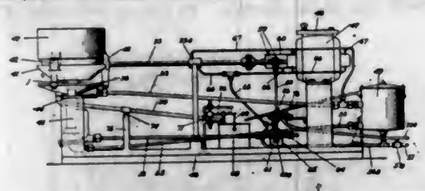
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1,693,060. THERMOSTATICALLY-CONTROLLED DAMPER. IRA E. SMITH, Stockton, Calif. Filed Nov. 11, 1926. Serial No. 147,691. 17 Claims. (Cl. 236—74.)



1. A thermostatically controlled damper system comprising in combination with a normally closed thermostat switch arranged to open under the influence of heat, and a circuit in which said switch is interposed; a damper unit; said unit including a passage member, a shutter interposed in said member, and electrically operated means interposed in said circuit and holding the shutter open when the switch is closed.

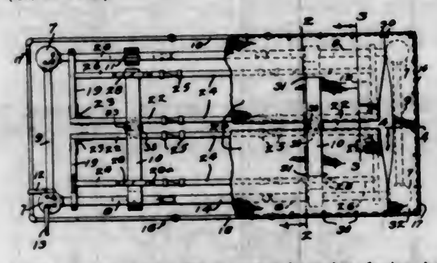
1,693,061. OIL-BURNING APPARATUS. IRA EDWARD SMITH, Stockton, Calif. Filed Nov. 17, 1924. Serial No. 750,248. 1 Claim. (Cl. 103—97.)



An oil pump and valve combination for use in pumping heavy hydrocarbon oils, comprising a pump structure having a discharge outlet, said outlet diverging outwardly from the pump, a longitudinally adjustable needle valve pointing toward the pump and constantly disposed in said diverging outlet to form a restricted passage of adjustable cross-sectional area therewith, and means for constantly rotating the valve.

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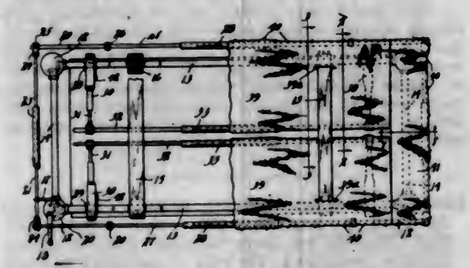
1,693,062. GRAVE LINING AND COVERING DEVICE. GUSTAF A. STARK, Atwater, Minn. Filed Nov. 15, 1926, Serial No. 148,349. Renewed Sept. 28, 1928. 11 Claims. (Cl. 27—32.)



1. The combination with a casket lowering device, having side shafts rotatable toward each other and webbing straps extending between said shafts, the ends of said straps being wound on said shafts, of means operated by said straps to line the walls of a grave as a casket is lowered into a grave by said device.

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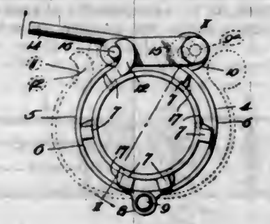
1,693,063. GRAVE COVERING AND LINING DEVICE. GUSTAF A. STARK, Atwater, Minn. Filed July 25, 1927. Serial No. 208,195. 14 Claims. (Cl. 27—32.)



1. The combination with a casket lowering device adapted to extend over an open grave and having side rollers rotatable towards each other, of means adapted normally to extend over the grave to conceal the same, and pawl and ratchet mechanism connecting said means with said rollers to permit said means to be swung downwardly by said rollers into the grave to line the walls of the same as a casket is lowered therein by said device and to allow continued rotation of said rollers in respect to said means after said means have been downwardly swung.



1,693,064. PIPE CLAMP. JOHN J. TIPTON, Pampa, Tex. Filed Sept. 8, 1927. Serial No. 218,234. 7 Claims. (Cl. 113—102.)



1. A pipe clamp comprising a pair of oppositely bowed members hingedly connected together at one side and adapted for engaging opposite sides of a pair of alined pipes, and provided at an intermediate point of the length of said members with inwardly-projecting lugs to enter between and space the adjacent ends of the pipes, and means for effecting closing movement of the clamp members.

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1,693,065. PROCESS OF NEUTRALIZING THE ALKALINITY OF WATER. ALFRED H. WHITE, Ann Arbor, Mich. Filed Dec. 7, 1925. Serial No. 73,900. 4 Claims. (Cl. 210—23.)

1. The process of neutralizing the alkaline content of water, consisting in commingling therewith a quantity of phosphoric acid adequate to reduce its final acidity, after reaction and removal of its carbon dioxide content, to a proportion not in excess of one half of one per cent.

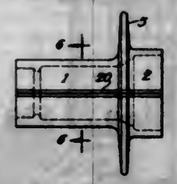
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1,693,066. PROCESS FOR PURIFYING THE WATER USED FOR STEAM-BOILER PURPOSES. ALFRED H. WHITE, Ann Arbor, Mich. Filed Dec. 7, 1925. Serial No. 73,901. 5 Claims. (Cl. 210—23.)

1. The process of purifying water which consists in contemporaneously adding thereto phosphoric acid, sufficient to form insoluble phosphates with the calcium, magnesium and iron carbonates in solution, and sufficient sodium phosphate to form insoluble phosphates with the other calcium, magnesium, and iron salts in solution, the relative quantities of phosphoric acid and the sodium phosphate used being such as to effect substantial neutralization of the water after the carbon dioxide has been removed from the solution.

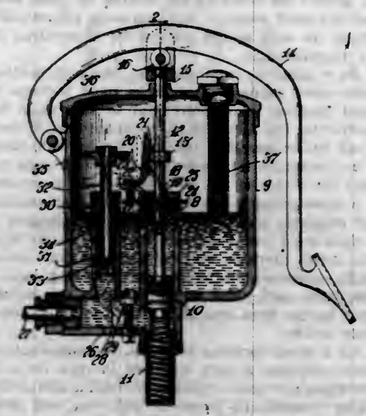
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1,693,067. MAKING HUBS. HERBERT H. WILLIAMS, Brooklyn, N. Y., assignor to Thomas E. Murray, Brooklyn, N. Y. Filed May 12, 1926. Serial No. 108,448. 3 Claims. (Cl. 29—159.3.)



1. In the production of vehicle hubs or similar hollow articles the method which consists in cutting blanks from a rolled bar having flat portions extending lengthwise in different planes and a longtudinal flange on one side, forging such blanks into segments having cylindrical ends of different diameters formed from the flat portions of the blank and an outer annular flange formed from the longitudinal flange of the blank, welding such segments together along their longitudinal edges with a resistance weld, trimming off the flash produced at the joints and turning the rough product thus formed to the exact dimensions desired.

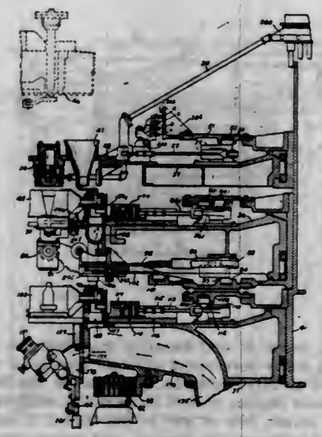
1,693,068. PUMP FOR LUBRICATING SYSTEMS. IRVING COWLES, Chicago, Ill., assignor to Union Bank of Chicago, trustee, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1927. Serial No. 230,740. 8 Claims. (Cl. 184—28.)



1. In a lubricating system including devices for shutting off flow to points to be lubricated after discharge of some oil to each thereof, a pump including a cylinder, a manually operable piston therein, trip-mechanism associated with said piston for retaining it at the end of its discharge stroke, a spring operatively associated with said piston for returning it to normal position, a fluid pressure responsive spring-held member associated with said cylinder for receiving oil discharged from the latter in excess of the volume fed to the points to be lubricated, a relief port permitting resisted discharge of said surplus oil responsively to pressure exerted by said spring-held member, and means associated with the latter for tripping said mechanism upon discharge of said surplus oil.

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1,693,069. GLASS-FORMING MACHINE. ALBERT N. CRAMER, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 31, 1925. Serial No. 78,581. 31 Claims. (Cl. 49—9.)



1. In a glass forming machine, the combination of a rotary mold carriage, molds thereon, each comprising sep-

arable sections, hollow arms carrying said sections, hollow shafts on which said arms swing for opening and closing the molds, said hollow shafts and arms providing communicating air passages through which cooling air is supplied, means for distributing cooling air to said hollow shafts, means for directing the cooling air from said arms against the mold sections, and manually adjustable valves individual to said hollow shafts for controlling the air supply therethrough.

14. In a glass forming machine, the combination of a rotatable mold carriage, a series of mold bottoms tiltably mounted thereon, cams individual to said mold bottoms for controlling the tilting of the mold bottoms, a stationary cam, and means operated thereby to cause said individual cams to cooperate in succession with the mold bottoms to effect the tilting of the mold bottoms in succession.

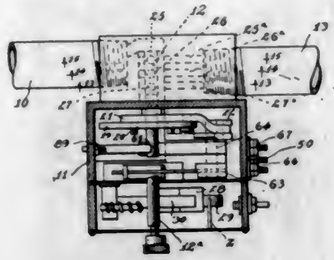
19. A glass forming machine comprising, in combination, a mold carriage, body molds, turn-over units each including a neck mold and a support therefor, shafts supported on the mold carriage and supporting said units, and manually operated means for withdrawing said shafts endwise from said units and permitting the latter to be removed bodily from the mold carriage independently of the body molds.

25. In a glass forming machine, the combination of a rotatable carriage, a part mounted thereon for a limited reciprocating movement radially thereof, a stationary cam, operating connections between said cam and said part for causing the rotation of the carriage to effect said reciprocating movement, said connections comprising a rod having sections relatively movable in a direction lengthwise of the rod, springs placed under compression respectively by the lengthening and shortening of said rod, and means to prevent either spring from expanding while the other is being compressed.

27. The combination of a continuously rotating mold carriage, blank molds and finishing molds thereon, a turnover unit comprising a neck mold, means for oscillating said unit to swing the neck mold between the blank mold and finishing mold, and means including rack and pinion mechanism permitting removal of said unit from the mold carriage independently of the blank molds and finishing molds and without interrupting the continuous rotation of the carriage.

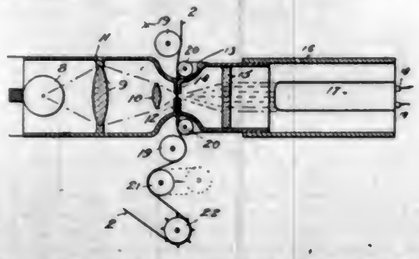
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1,693,070. ELECTRICAL CONTROL FOR GAS VALVES. SAMUEL G. CRANE, Pasadena, Calif., assignor to F. H. Ohrmund, Pasadena, Calif. Filed Feb. 28, 1927. Serial No. 171,658. 10 Claims. (Cl. 158—99.)



1. In a device of the character described, the combination with a gas burner and gas feed pipe, of a rotatable gas valve mounted between the ends of the feed pipe, means under manual control for partially rotating the gas valve to permit flow of gas to the burner, a spark plug positioned adjacent the burner, and means for causing intermittent sparking at the spark plug for a predetermined time set in operation by the movement of said valve.

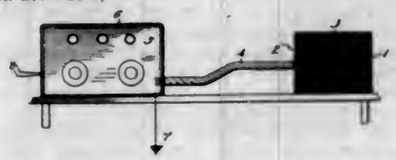
1,693,071. SOUND-RECORDING ATTACHMENT FOR MOTION-PICTURE CAMERAS. LEE DE FOREST, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1923. Serial No. 635,334. 4 Claims. (Cl. 179—100.)



3. A light controlled photographic sound reproducing attachment for motion picture projecting machines, comprising two aligned casings disposed so as to provide a film path therebetween, a slit in each of the adjacent ends of said casings, a light source in one of said casings, and a light sensitive cell in the other of said casings.

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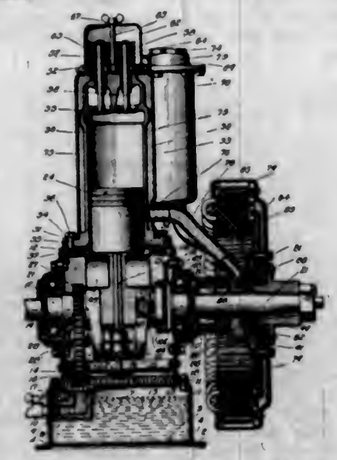
1,693,072. MEANS FOR SHIELDING SOUND DETECTOR AND AMPLIFIER APPARATUS. LEE DE FOREST, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1923. Serial No. 635,337. 6 Claims. (Cl. 179—171.)



1. The combination with a microphone device, of means immediately associated with said device for shielding said device against electrical disturbances while allowing free access thereto by sound waves.

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1,693,073. EXPLOSION MOTOR. OTTO A. DONATH, Clinton, Iowa, assignor to O. D. Collis, Clinton, Iowa. Filed Oct. 27, 1923. Serial No. 671,110. 2 Claims. (Cl. 123—195.)

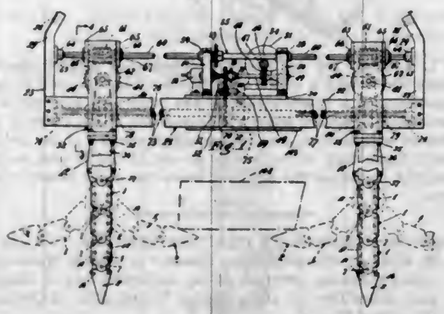


1. In an engine comprising a supporting base, an inverted cup-shaped stamping secured to the top of said base to form a crank case, a crank shaft mounted in the crank case and a cam shaft gear engaged with said shaft, a sheet metal floor secured to said stamping in spaced relation to the top of said base to form an oil reservoir, said floor having downwardly struck depressions therein forming oil retaining recesses receiving the periphery of said cam shaft gear and, one of said recesses having an inlet opening connecting with said oil reservoir.



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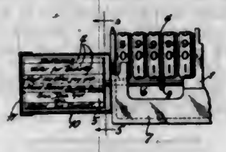
1,693,074. LIFTING DEVICE. MICHAEL FALCO, Canonsburg, Pa. Filed Dec. 24, 1926. Serial No. 156,774. 2 Claims. (Cl. 294—67.)



1. In a lifting device of the character described, a plurality of links; means for hingedly connecting the links end to end to form an articulated lifting member; a plurality of rollers positioned within said links; cables guided by said rollers and engaging alternately the inner and outer periphery thereof, and means for operating said cables.

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1,693,075. INDICATING ATTACHMENT FOR SPEEDOMETERS. JAMES HENLY FRIER, Jr., Webster Groves, Mo. Filed Aug. 22, 1927. Serial No. 214,583. 1 Claim. (Cl. 40—44.)

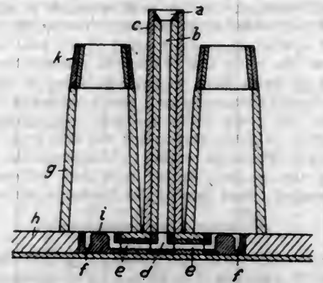


A device of the character described comprising a frame, a gear wheel supported in said frame for intermittent rotation, a shaft extending into said frame, means for imparting intermittent rotary movements to said shaft by said gear wheel, a drum mounted on the outer end of said shaft for rotation thereby and being removable therefrom and replaceable thereon in selected adjustments about the axis of said shaft, a housing enclosing said drum and having an integral inner end wall adjacent to said frame and an open outer end permitting removal and replacement of said drum upon said shaft, and a removable cap enclosing the outer end of said housing.

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1,693,076. CASTING APPARATUS FOR FIRST QUALITY AND REFINED STEELS. FRANZ GEISSLER, Duseldorf-Oberkassel, Germany. Filed Mar. 24, 1927, Serial No. 178,070, and in Germany Dec. 8, 1926. 1 Claim. (Cl. 22—141.)

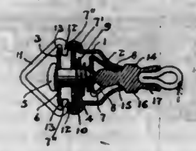
A casting apparatus for first quality and refined steel comprising in combination, a base plate having a vertical bore at the centre, a pouring tube above said vertical bore, a funnel shaped inlet at the top end of said pouring tube, conical ingot molds on said base plate around said pouring tube, circular grooves in said base plate one under each ingot mold and a channel connecting each circular groove with said vertical bore so that the point at which said channel terminates in said groove is tangential to said



ingot mold so that a circulating movement around the core formed underneath each ingot is communicated to the liquid mass and the impurities are carried up to the top end of said ingot mold.

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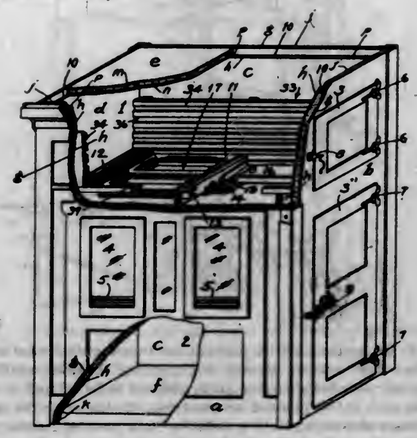
1,693,077. COUPLING DEVICE. AARON A. GOLDSTEIN, Buffalo, N. Y. Filed June 24, 1927. Serial No. 201,138. 4 Claims. (Cl. 24—201.)



1. A coupling device, comprising a casing having a convergent throat at one end, a link member pivotally connected to the other end of said casing, a locking clutch arranged within said casing, a stud having a head end adapted to enter the throat and engage said locking clutch and having a socket end, and a loop link rigidly secured in the socket end of said stud.

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1,693,078. REFRIGERATOR. ANTON N. HORNUNG, Los Angeles, Calif. Filed Jan. 4, 1926. Serial No. 79,089. 6 Claims. (Cl. 62—46.)

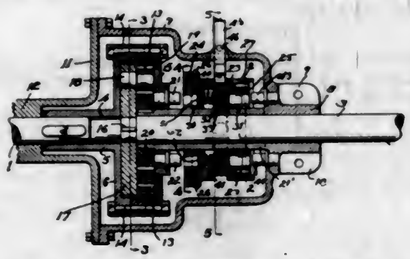


1. In a refrigerator provided with insulated walls, top and bottom, and having a cooling chamber, and an ice chamber thereabove; a pan spaced from the top and from

two of the walls and arranged between the ice chamber and the cooling chamber and having a rectangular border frame provided with a rim wall and with a central cross frame connected to the border frame to form therewith down draft openings; an ice rack arranged to support ice above the pan; baffle walls secured to two of the walls and extending upward from outer edges of the pan and spaced apart from the walls and top of the refrigerator to form therewith up draft flues on opposite sides of the pan; a trapped drain; drip collecting trays arranged to collect drip from the down draft openings and provided with drain outlets; a drain tray below the drip trays and provided with a discharge outlet to discharge the collected drip into the trapped drain; said drip collecting tray being arranged aslant toward the discharge outlet.

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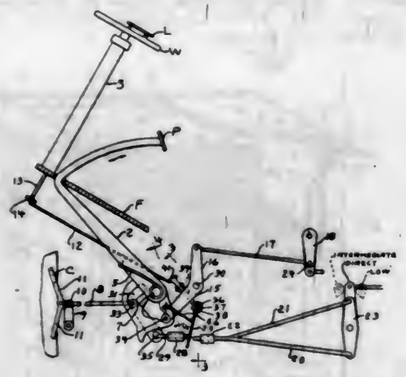
1,693,079. SPEED-CHANGE TRANSMISSION GEARING. ERNEST W. JACKSON, San Rafael, Calif., assignor to Perfecto Gear Differential Co., Oakland, Calif., a Corporation of Washington. Filed Oct. 25, 1921. Serial No. 510,384. 7 Claims. (Cl. 74—34.)



1. In a change speed mechanism, driving and driven members, a clutch element positively engaged with one of said members, a second clutch element frictionally engaged with said first clutch element, and means for positively engaging the second clutch element with the other member.

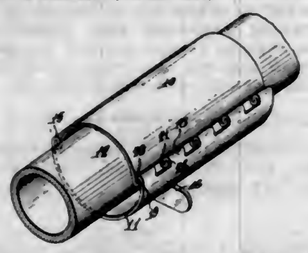
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1,693,080. AUTOMATIC GEAR SHIFT. ARNOLD H. JESSEN, Los Angeles, Calif. Filed Mar. 27, 1926. Serial No. 97,868. 5 Claims. (Cl. 74—58.)



1. In a gear shifting apparatus, in combination, a selective speed setting means, a depending endwise shiftable spring retarded swinging plate adapted to be shifted by said means, a set of pivoted means for operating selective speed change means, operating rods for said pivoted means, said rods being adapted to be directly operated by said plate to operate said pivoted means, and means for operating said sets of pivoted means when said speed setting means has been set.

1,693,081. DIVIDED PIPE CLAMP. SAMUEL M. KASS, Philadelphia, Pa. Filed Nov. 2, 1926. Serial No. 145,784. 2 Claims. (Cl. 24—19.)



1. A clamp for pipe repairs comprising divided clamp parts one having a continuous clincher edge adapted to cooperate with a clincher edge of the other and both having interrupted clincher parts at the opposite edges adapted to interfit with partial longitudinal displacement of the parts and a tightening device carried by one of the divided parts adapted to engage the pipe and draw the other toward the pipe.

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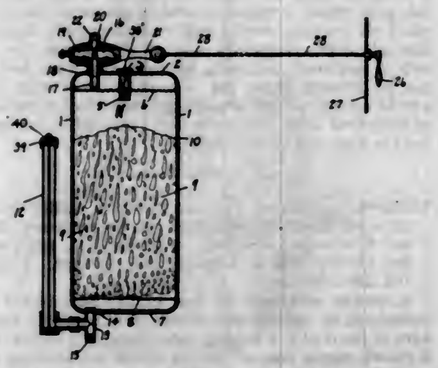
1,693,082. COMPOSITE DRAPERY FIXTURE. CHARLES W. KIRSCH, Sturgis, Mich., assignor to Kirsch Manufacturing Company, Sturgis, Mich., a Corporation of Michigan. Filed Oct. 13, 1926. Serial No. 141,257. 5 Claims. (Cl. 156—19.)



1. A drapery fixture including a master rod provided at its ends with arms, the latter having longitudinal slots in their opposed faces, said slots bordered by flanges, auxiliary fixtures such as a curtain rod or window-shade roller fixtures associated with the master rod, and brackets each housed in part by said arms and engaged with the flanges bordering said slots for interchangeably engaging and supporting said auxiliary fixtures.

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1,693,083. HUMIDIFIER FOR INTERNAL-COMBUSTION ENGINES. WILLIAM C. KITT, Cincinnati, Ohio. Filed Sept. 22, 1926. Serial No. 137,080. 3 Claims. (Cl. 261—96.)



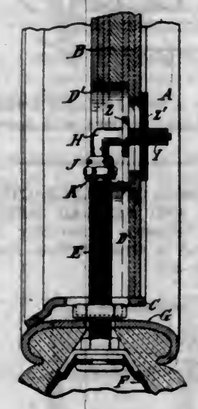
1. A humidifier for internal combustion engines, comprising a closed tank having upper and lower substantially



horizontal screens arranged therein, a water gauge connected to the lower portion of the tank and extending upwardly to a point some distance below the top of the tank, a cap for the water gauge having a constantly open aperture to admit air to the gauge and to function as an overflow to prevent the tank from being filled beyond a predetermined elevation, a mass of sponge in the tank, resting on the lower screen and projecting upwardly above the top of the gauge into a space in the upper portion of the tank for feeding moisture into said space, an air inlet nipple communicating with said space, and a valve controlled moist air outlet communicating with said space above the upper screen.

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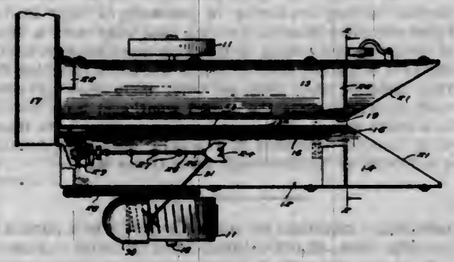
1,693,084. TIRE VALVE. HENRY P. KRAFT, Ridgewood, N. J.; Edgar J. Phillips and Earl A. Darr executors of the will of Henry P. Kraft, deceased. Filed May 10, 1920. Serial No. 380,024. 1 Claim. (Cl. 152—12.)



The combination with a wheel having a disk, an elongated slot through said disk, and a tire valve having an angled fitting passing through said slot, said angled fitting having means for clamping said disk, said clamping means comprising a fixed disk on the angled fitting and a screw-threaded disk adapted to engage a thread on the angled fitting and clamp the wheel disk between the two.

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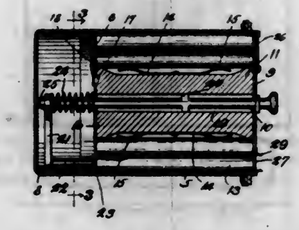
1,693,085. CORN-HARVESTING APPARATUS. MICHAEL E. KRAXBERGER, Buckingham, Colo. Filed Apr. 15, 1926. Serial No. 102,250. 4 Claims. (Cl. 56—63.)



1. In corn harvesting mechanism and in combination, a wheel supported trough having upwardly diverging inclined side walls, there being a longitudinally extending slot in one side wall thereof, means at one end of the trough for directing plant stems into the slot as the trough is moved along a row, means associated with the trough for severing grain heads from the plants during their passage through the slot and a conveyor extending longitudinally of the bottom of the trough, said slot being of a width to permit passage of the stems while preventing passage of the grain heads.

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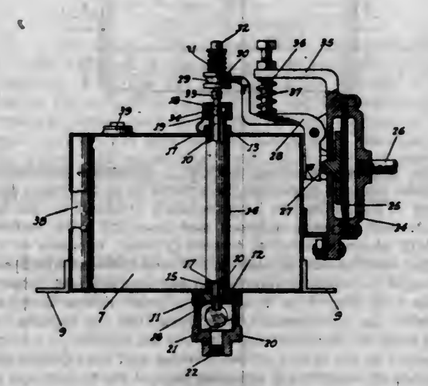
1,693,086. CIGARETTE CASE. ROBERT L. LAIRD, Dallas, Tex. Filed Jan. 27, 1928. Serial No. 249,926. 6 Claims. (Cl. 312—84.)



1. A cigarette container including a body portion, a rotary cigarette carrier mounted within the body portion, said carrier having a bore formed therethrough and having offsets, a shaft extending through the bore, lugs on the shaft disposed within the offsets, to rotate the carrier when the shaft is rotated, an ejector operated by the shaft and said ejector adapted to engage a cigarette contained in the carrier to force the cigarette from the carrier.

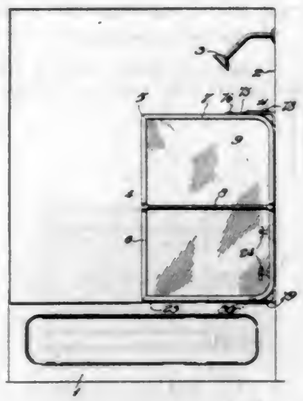
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1,693,087. AUTOMATIC PRESSURE-ACTUATED GRAVITY OILER. WILLIAM A. LAUGHERY, Stockton, Calif. Filed July 7, 1926. Serial No. 120,913. 6 Claims. (Cl. 184—76.)



1. A control device for the outlet of a gravity oiler comprising a valve stem to close the outlet, a tube in which said stem is slidable, an adjustable cap on the outer end of the tube, a collar on the stem inwardly of the cap and adapted to abut thereagainst when the valve has been opened a predetermined amount, a lever, connection means between one end of the lever and the stem outwardly of the cap, and pressure actuated means applied to the lever to cause the same to then move the stem in a valve opening direction.

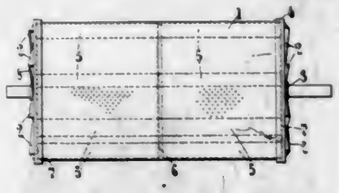
1,693,088. SHOWER INCLOSURE. LOUIS H. LEHMAN, Philadelphia, Pa. Filed Jan. 18, 1926. Serial No. 81,901. 9 Claims. (Cl. 4—146.)



1. The combination with a bath tube and a shower, of a shower inclosure comprising a door, an upper and a lower supporting bracket, therefor, a link pivotally connected with the upper bracket and with the door and locking mechanism co-operating with the lower bracket and the bottom of the door.

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1,693,089. ROTARY WASHING MACHINE. VICTOR LISTER and SAMUEL WILLIAM LISTER, Woolwich, England. Filed Apr. 8, 1926, Serial No. 100,687, and in Great Britain May 6, 1925. 1 Claim. (Cl. 68—18.)

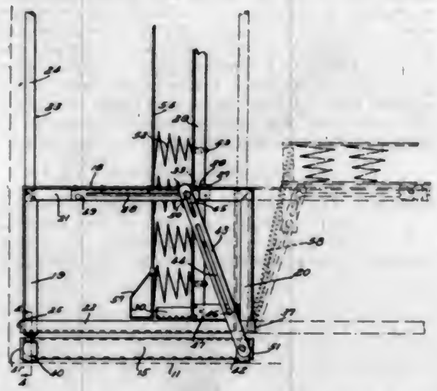


For a rotary washing machine a rotatable perforated cylinder adapted to receive the articles to be treated, a plurality of hollow beaters longitudinally arranged on the interior wall of said cylinder and provided with orifices radially arranged relative to said cylinder, two sets of V-shaped buckets one on each end of said cylinder which are arranged in opposite relation to one another and tangentially with respect to a circle of a lesser radius than the cylinder the arrangement being such that the buckets extend from the circumferential wall of the cylinder to a point adjacent to the centre of the cylinder and that during the rotation of the cylinder the inner ends of the buckets are in advance of their outer ends, and openings in the ends of said cylinder which register with said hollow beaters.

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1,693,090. CLOSET OR RECESS BED. CHARLES LOFMAN, Los Angeles, Calif., assignor to Roberti Bros., a Corporation of California. Filed Dec. 7, 1925. Serial No. 73,585. 6 Claims. (Cl. 5—170.)

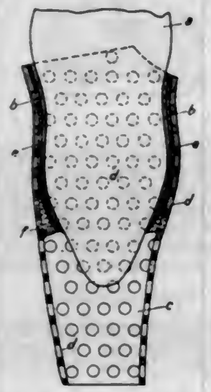
1. A bed organization of the general character described comprising a horizontally movable carriage, floor guides for said carriage within a closet or recess, a bed frame pivotally mounted on said carriage and rotatable between a vertical and a horizontal position, and means at each side of said carriage pivotally connected to the floor in a plane substantially in front of the vertical position of



said bed whereby a tilting of said frame causes a relative movement of said carriage with respect to the closet or recess.

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1,693,091. METHOD OF MANUFACTURING ARTIFICIAL LIMBS AND SIMILAR DEVICES. JULIUS LOTH, Koslin, Germany. Filed Nov. 11, 1927, Serial No. 232,622, and in Great Britain Aug. 19, 1927. 4 Claims. (Cl. 3—9.)



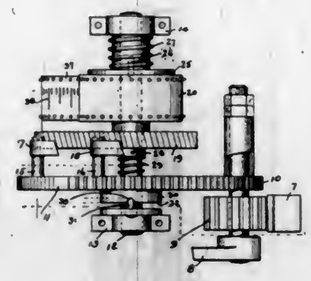
1. The method of manufacturing artificial limbs and similar devices, consisting in producing a copy of the respective body portion, covering said copy with a layer of so-called liquid wood, letting this layer solidify, applying to it a further layer of liquid wood and inserting the thus obtained shell into an outer main shell provided with apertures while the second mentioned layer still is in a liquid state in such a manner as to extend the liquid wood into the apertures of the outer shell thus forming a solid unit of the two shells when it has set.

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1,693,092. RECORDING AND SALES-CHECK MECHANISM FOR FLUID-DISPENSING PUMPS. ARTHUR R. MASON and OTTO C. FAILING, Medford, Oreg., assignors to Accurate Gasoline Recording Company, a Corporation of Oregon. Filed Aug. 17, 1927. Serial No. 213,688. 5 Claims. (Cl. 271—23.)

1. Sales check mechanism for fluid dispensing apparatus comprising a member constrained to rotate in synchronism with said dispensing apparatus, a shaft on which said member is adapted to slide, a skew toothed ratchet on said shaft, means fixed to said ratchet for advancing

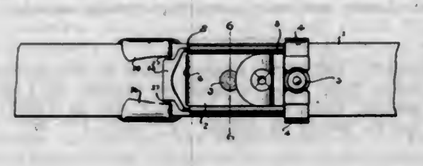




record strips, and a plurality of pawls carried on said member and adapted to selectively engage the said ratchet teeth when the said member is rotated.

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1,693,093. BELT FOR PERSONAL WEAR. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Filed Sept. 16, 1927. Serial No. 219,899. 4 Claims. (Cl. 241—8.)



1. The combination with a belt having an inturned reduced end, of a member held between the main or front portion of the belt and the inturned portion, spring means arranged on said member beyond the opposite side edges of the inturned portion of the belt, a member guided on the first named member and having its movement opposed by the spring means, and means for securing the other end of the belt to said last mentioned member.

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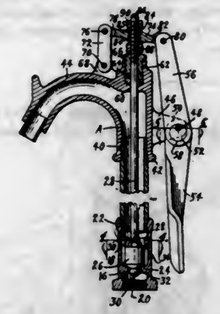
1,693,094. PROCESS OF FORESTALLING LEAKAGE IN CONCRETE RESERVOIRS. EUGENE R. ODEN, Lankershim, Calif. Filed Nov. 11, 1926. Serial No. 147,838. 3 Claims. (Cl. 72—13.)

2. The herein described process of producing cracks in concrete reservoirs and for repairing said cracks, which consists in subjecting the walls of the reservoir to the action of a chilling agent to suddenly lower the temperature of the reservoir material with a resultant opening up of the weak places in the reservoir material so as to purposely produce cracks therein and in the subsequent filling of the cracks with a crack sealing material, prior to an introduction of water to the reservoir for commercial purposes.

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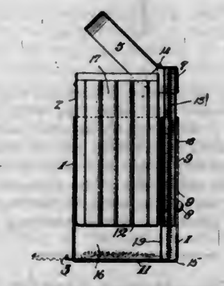
1,693,095. HYDRANT. THOMAS RITCHIE and ROBERT H. RITCHIE, Oskaloosa, Iowa. Filed Mar. 4, 1927. Serial No. 172,695. 6 Claims. (Cl. 137—13.)

1. In a hydrant structure, a valve casing, a valve seat on its interior, a valve in the casing for coacting with said seat, a stem extended from said valve and means for actuating said valve comprising a rocking bar pivoted at one end, a link pivoted at one of its ends to the other end of the rocking bar, means for rocking said bar comprising a pivoted handle, an eccentric disk on said handle, an opening in the other end of said link for rotatably receiving said eccentric and means on said stem adapted to be engaged by the rocking arm for closing and opening said valve upon swinging movement of said handle.



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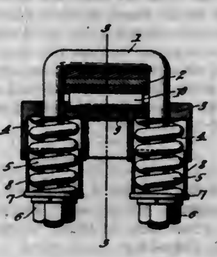
1,693,096. MECHANICAL RECEPTACLE. MAURICE V. SAMUELS, San Francisco, Calif. Filed Feb. 16, 1927. Serial No. 168,655. 2 Claims. (Cl. 206—38.)



1. A case for cigarettes and the like in combination with a casing external to the case and telescopically engaged therewith, a bottom for said casing, an opening in the side of the casing spaced from said bottom through which smokers' refuse may be introduced and trapped in the space between the case and the casing when the case and the casing are telescopically collapsed, a finger member fixed with the case and projecting through the casing adapted to displace the case clear of said opening.

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1,693,097. VEHICLE SPRING CONTROL. PETER THOMAS STOUGHTON, Portland, Me. Filed Nov. 1, 1927. Serial No. 230,310. 3 Claims. (Cl. 267—48.)



1. A vehicle spring control comprising a yoke, a bar through which the yoke ends protrude, coiled springs sur-

rounding the yoke ends, nuts screw threaded on the yoke ends for adjusting the pressure of the coiled springs, recesses in the bar for receiving the coiled springs, enclosing members surrounding the coiled springs and adapted to slide telescopically within the cylindrical recesses in the bar, and anti-friction means between said bar and the vehicle springs.

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1,693,098. CARD CLASP. GEORGE H. TAYLOR, Norfolk, Va. Filed Aug. 26, 1927. Serial No. 215,587. 3 Claims. (Cl. 40—11.)




1. A card clasp comprising a straight elongated shank having a rebent upper end contacting with the shank to form a fixed jaw, a substantially parallel portion bent upwardly from the base of the fixed jaw to form a movable jaw, and an operating plate extended downwardly and outwardly from the upper end of the movable jaw, the upper ends of both jaws being deflected outwardly in opposite directions to provide a curved inserting guide.

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1,693,099. PENCIL. FRANK J. VIERLING, Minneapolis, Minn., assignor to Clover G. Irvine, Minneapolis, Minn. Filed June 3, 1926. Serial No. 113,450. 2 Claims. (Cl. 120—18.)



1. A pencil comprising a barrel carrying a bead and a tubular shell telescopically slidable therein, said shell being composed of resilient material and provided with a helical thread on its inner portion adjacent said open end, adapted for interengagement with said head, and a smooth portion extending beyond the end of said barrel, the inner portion of said shell being longitudinally slotted transversely of said thread and through said open end, and a lead carrier mounted on said shell substantially as and for the purpose set forth.

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1,693,100. PENCIL. FRANK J. VIERLING and CLOVER G. IRVINE, Minneapolis, Minn.; said Vierling assignor to said Irvine. Filed Dec. 6, 1926. Serial No. 152,867. 3 Claims. (Cl. 120—18.)

3. A pencil comprising an outer barrel having a spiral bead extending around the inside thereof, a shell telescopically slidable within said barrel, said shell being longitudinally split adjacent one end and provided with spiral ridges thereon adapted to resiliently engage the bead on the inside of the barrel, and having the other end extending out of said barrel, the said outer end providing means whereby the barrel and the shell may be given a relative endwise movement or may be relatively rotated.



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1,693,101. OIL-WELL PUMP. JAMES P. WORTHINGTON, Ponca City, Okla., assignor of one-half to Lory J. Mildren, Ponca City, Okla. Filed Feb. 23, 1926. Serial No. 90,119. 5 Claims. (Cl. 103—5.)



1. In combination with an oil well, relatively spaced inner and outer pipes in the oil well, a pump at the top of the oil well, means connecting the pump with said pipes including valves for selectively directing a liquid from the pump directly into either the inner or the outer pipes, deflecting means in the oil well below the top thereof for directing all of the liquid from one pipe to the other without directing liquid to the well, and an intake device from said pipes to the well below the deflecting means operated by the pump controlled liquid in said pipes to draw liquid from the well into said liquid first mentioned.



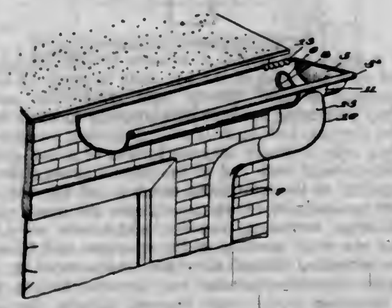
1,693,102. OIL-WELL PUMP. JAMES P. WORTHINGTON, Ponca City, Okla., assignor of one-half to Lory J. Mildren, Ponca City, Okla. Filed Feb. 23, 1926, Serial No. 90,120. Renewed Apr. 14, 1928. 10 Claims. (Cl. 103—5.)



1. In a well pump the combination of an outer pipe having a passageway therethrough, an inner pipe having a passageway therethrough, and located axially thru the passageway of the outer pipe, means for forcing an impelling fluid downwardly thru the passageway of the outer pipe, deflector means in the lower part of the passageway of the outer pipe for laterally deflecting the impelling fluid into the passageway of the inner pipe and upwardly therethrough, and motor means rotatably supported adjacent said deflector in the path of the impelling fluid for rotation thereby to create a suction thru the passageway of the pump below said deflector.

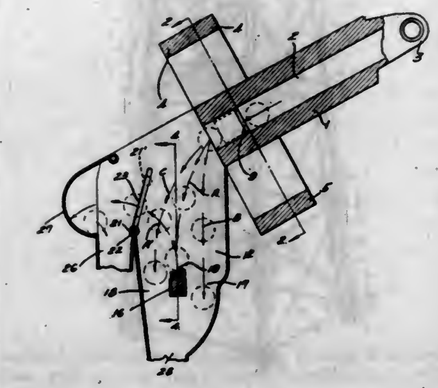
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1,693,103. EAVES TROUGH. FRANK F. WRIGHT, Aurora, Ill. Filed Apr. 27, 1927. Serial No. 186,980. 4 Claims. (Cl. 108—30.)



1. The combination with a filtering member having a side opening, of a conduit extending substantially at right angles to said filtering member having a discharge opening communicating with said filtering member, and a baffle member in the conduit adjacent the side nearest the side opening of the filtering member, for the purpose specified.

1,693,104. METHOD AND APPARATUS FOR SELECTING METAL CHECKS. HUGH E. WURZBACH and LESLIE H. WADSWORTH, Magna, Utah, assignors to Selector Corporation, Salt Lake City, Utah, a Corporation of Utah. Filed Jan. 27, 1928. Serial No. 250,036. 10 Claims. (Cl. 194—101.)



1. The method of selecting checks which comprises causing the check to pass through a zone of concentrated magnetic flux whereby the velocity of said check is diminished in accordance with the induced currents set up therein, permitting the check to move in a free trajectory after leaving said zone of magnetic flux, causing any check moving in a certain trajectory to strike against impact means and to rebound therefrom in accordance with the resiliency thereof, and delivering any check striking said impact means and rebounding therefrom in a certain manner separately from all checks failing to strike said impact means and all checks striking said impact means and failing to rebound therefrom in said certain manner.

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1,693,105. COMPOSING STICK. WALTER C. BIGNOLD, San Francisco, Calif. Filed June 29, 1927. Serial No. 202,400. 3 Claims. (Cl. 276—39.)



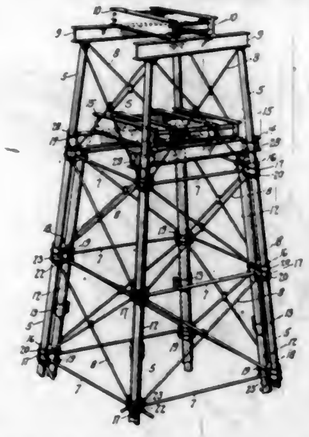
1. The combination with a composing stick having a plurality of openings disposed along one of its sides, of a stop, a slide carried by said stop, pins carried by said slide for entering said openings, a worm for moving said stop in either direction and a lever for securing said stop to said stick, and for preventing movement of said worm when said lever is swung into operative position.

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1,693,106. METHOD OF DEGREASING RAW WOOL. RUDOLF BRAUCKMEYER, Grunberg i/Schlesien, Germany. Filed Jan. 14, 1926, Serial No. 81,324, and in Germany May 25, 1925. 2 Claims. (Cl. 8—12.)

1. Method of degreasing raw wool consisting in primarily freeing the wool from water leaving about 2 to 3% moisture in the wool, then treating the wool with water-soluble mild grease solvent.

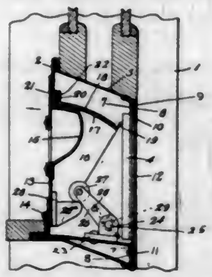
1,693,107. DERRICK. THOMAS F. CAMPBELL, Denver, Colo., assignor of sixty one-hundredths to Richard S. Shannon, Denver, Colo. Filed June 28, 1926. Serial No. 119,005. 5 Claims. (Cl. 189—13.)



2. A derrick comprising permanent and auxiliary tower units placed one within the other, each having supporting legs, a crown block on each unit cooperating for the support of a cable in the operation of the well, and clamps connecting the crown block of one unit with the supporting legs of the other unit.

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1,693,108. VENTILATOR. OLIVE W. DENNIS, Baltimore, Md. Filed Dec. 13, 1927. Serial No. 239,777. 2 Claims. (Cl. 98—93.)

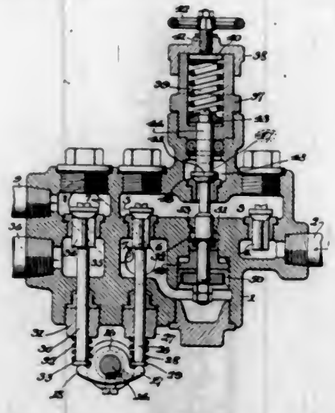


1. In a car ventilator, the combination with a housing having top, bottom and end walls, of a movable lid adapted to close one side of the housing, a screen to close the other side of the housing, wings extending inwardly from the ends of the lid and constituting with the lid a chute to direct air currents upwardly, a perforated cover overlying the lid and wings, a cam on the inner side of the lid, an arm in the housing coacting with said cam to lock the lid in both open and closed positions, and means holding said arm constantly in cooperative relation with said cam.

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1,693,109. SEMIAUTOMATIC VALVE. WALTER ERNST, Mount Gilead, Ohio, assignor to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Filed July 26, 1926. Serial No. 124,906. 5 Claims. (Cl. 138—16.)

1. Valve mechanism comprising a casing, a chamber therein, means for admitting a fluid under pressure thereto, means for admitting a fluid under higher pressure to said chamber, which second means is operable automatically by the first-named fluid when the pressure in the chamber reaches a predetermined value, and a third means independently operable for connecting the chamber to the



exhaust, the first means being located intermediate the second means and the chamber and operating to cut off from the chamber the flow of both fluids before the second means closes, and the second means closing only after the chamber has been connected to the exhaust.

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1,693,110. PAPER-BAG HANDLE. MAX FAISTENHAMMER, Binghamton, N. Y. Filed June 22, 1926. Serial No. 117,838. 1 Claim. (Cl. 229—54.)



In a paper bag handle, a foldable reinforcing member folded over the edge of the bag body in equal folds and permanently secured thereto, said reinforcing member and bag body being provided with aligning openings which extend through both folds of the reinforcing member and the bag body, a handle member formed of a flat strip of flexible material each end of the handle passing through an opening in the reinforcing member and bag body and turned upwardly to terminate adjacent the upper end of the foldable reinforcing member, said handle snugly engaging the upper portions of the openings, and fastening means extending through the double thickness of the handle and reinforcing member and through the bag body, said fastening means being disposed between the upper edge of the bag and the openings.

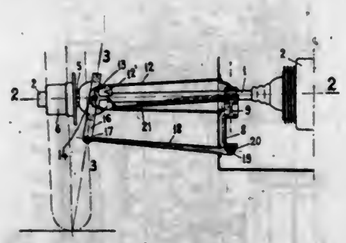
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1,693,111. WHEEL-SUSPENSION MEANS FOR MOTOR VEHICLES. GUIDO FORNACA, Turin, Italy. Filed July 13, 1927, Serial No. 205,458, and in Italy July 16, 1926. 7 Claims. (Cl. 180—43.)

1. A mounting for vehicle wheels comprising a hollow member extending transversely to the vehicle frame and



pivoted thereon for vertical oscillation, said hollow member having a cross section which is vertically depressed and elongated in a direction parallel to the axis of the vehicle frame, a rigid member extending transversely to said vehicle frame at a distance below said hollow member



and mounted on said frame for vertical oscillation, a member linking said hollow and rigid members, a wheel hub, means on said link member for supporting said wheel hub, and resilient suspension means in said hollow member to damp oscillations of said interconnected parts and wheel with respect to the vehicle frame.

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1,693,112. PHENOL RESIN AND PROCESS OF MAKING SAME. FRAZIER GROFF, Verona, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 21, 1927. Serial No. 170,059. 6 Claims. (Cl. 260—4.)

1. Process of making a dehydrated reactive resin composition, comprising reacting a phenol with furfural in proportion to yield an infusible resin, arresting the reaction before the infusible stage is reached, adding thereto a non-reactive resin, heating the mass to dehydrate the resin and further advance the same, and adding a methylene-containing hardening agent.

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1,693,113. ANIMAL-FEEDING DEVICE. CARL HAMPEL, Jackson, Mich. Filed Sept. 30, 1927. Serial No. 222,959. 8 Claims. (Cl. 119—61.)

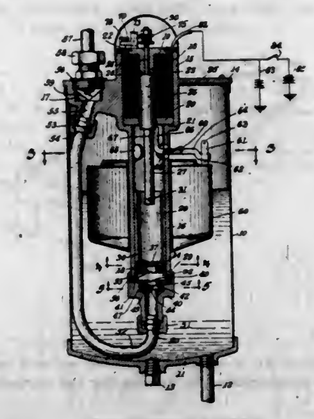


1. A feeding device comprising a receptacle having a laterally projecting rim, a base plate having an aperture for receiving said receptacle, and means for supporting said receptacle within said aperture by said rim comprising a substantially U-shaped member engaging the projecting rim, the free ends of said member being secured to said base plate on opposite sides of said aperture.

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1,693,114. FUEL-SUPPLY SYSTEM. JOHN ALLEN HEANY, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed Sept. 27, 1923. Serial No. 665,109. 17 Claims. (Cl. 103—26.)

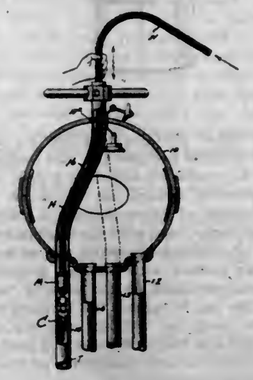
1. In a fuel supply system, the combination of a main fuel tank; an auxiliary fuel tank positioned above said main tank; pumping mechanism associated with said auxiliary fuel tank to lift the fuel from the main to the



auxiliary tank; and means adapted to make said mechanism self priming under normal conditions of engine operation.

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1,693,115. TUBE-CLEANING DEVICE. DAVID S. JACOBUS, Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 20, 1922. Serial No. 569,703. 8 Claims. (Cl. 15—104.11.)



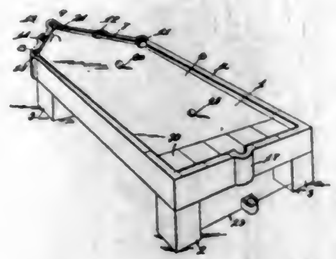
1. A device for use with cleaning means for a plurality of tubes having their ends entered in the periphery of a drum at one side thereof and arranged in a group with a plurality of tube ends in the group substantially equidistant from the geometrical center of the group, said drum having a handhole in the side of the drum opposite the tube ends and substantially opposite the geometrical center of said group, said device comprising means to guide a cleaner from said handhole into the end of any one of the tubes in said group.

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1,693,116. GAME. ELI H. LEE, Monrovia, Calif. Filed Mar. 23, 1927. Serial No. 177,532. 2 Claims. (Cl. 273—11.)

1. A game table comprising an elongated, horizontal top having one end V-shaped and the other end rectangular, a marginal upstanding flange surrounding said table top, a pocket in said rectangular end, a pocket in the apex

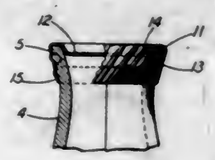
of said V-shaped end, said pocket being relatively narrow, a pocket located centrally of each side of said V-shaped end, and a pocket located in the outer end of said



V, and a plurality of squares indicated on said table adjacent said rectangular end as and for the purpose specified.

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1,693,117. CLOSURE FOR CONTAINERS. ANTHONY F. MCDONNELL, Dunmore, Pa., assignor of one-third to William Aloysions Quinn, Scranton, Pa. Filed Oct. 29, 1927. Serial No. 229,710. 1 Claim. (Cl. 215—46.)



A bottle or other container having its neck formed with shoulders inclined peripherally and upwardly toward the mouth of the container and with a part inclined outwardly and upwardly toward the mouth, in combination with a cap formed of paper having a pliant metallic binding around its rim, said metallic binding being adapted to be crimped or contracted around the neck of the container and being formed with internal projections to engage the inclined shoulders on the neck of the container, so that, when the cap is turned, the inclined shoulders on the neck of the container will lift the cap off the neck and the upwardly and outwardly inclined part of the neck will expand the rim and ease the lifting of the cap.

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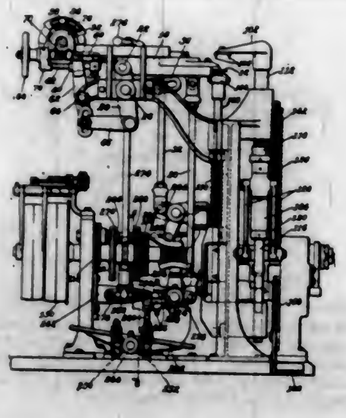
1,693,118. HIGH-PURITY CRYSTALLINE DEXTROSE. WILLIAM B. NEWKIRK, Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del., a Corporation of Delaware. Filed Feb. 10, 1927. Serial No. 167,362. 5 Claims. (Cl. 127—30.)

1. Crystalline anhydrous dextrose in the form of granules the majority of which are individual crystals having smooth faces.

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1,693,119. UPPER-SHAPING MACHINE. ARTHUR F. PYM, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 20, 1925. Serial No. 51,404. 23 Claims. (Cl. 12—14.)

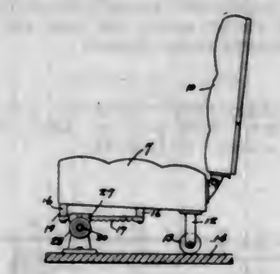
1. In a machine of the class described, the combination with shoe-positioning means and toe-embracing wipers relatively movable to upwipe and to overwipe the toe of an upper, of power-operated means for effecting the relative upwiping and overwiping movements comprising a power-driven shaft and independently controlled mechanisms operated thereby for starting or stopping the rela-



tive upwiping movement or the relative overwiping movement, each independently of the other, at the will of the operator.

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1,693,120. ADJUSTABLE SEAT FOR AUTOMOBILES. WILLIAM J. RHYNES, Spreckels, Calif. Filed Aug. 5, 1926. Serial No. 127,366. 1 Claim. (Cl. 155—14.)



A device of the type described comprising a seat portion, racks secured to said seat, a supporting shaft, means for supporting said shaft, said racks being swingable about said shaft, pinions carried by said shaft and meshing with said racks, brackets connecting said racks with said pinions and permitting a swinging of said racks about said shaft as a center, means for supporting the rear portion of the seat and a back hingedly connected to the rear portion of the seat.

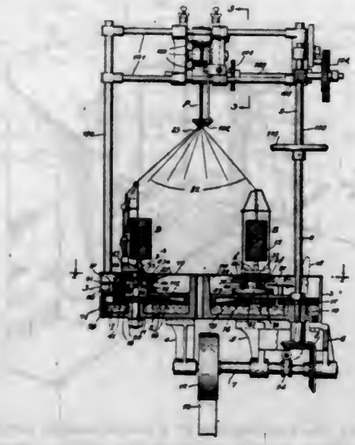
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1,693,121. BRAIDING MACHINE. HARRY G. ROBINSON, Waterbury, Conn., assignor to Industries of America, Inc., a Corporation of Delaware. Filed Sept. 24, 1926. Serial No. 137,395. 34 Claims. (Cl. 96—9.)

1. A braiding machine characterized by rotatable drivers adapted to co-operate upon braiding devices or carriers for the transport of said carriers through a sinuous path, said drivers having holding members, rotatable with said drivers, to secure said carriers adventitiously to said drivers in succession, said machine being further characterized by the arrangement of said holding devices to be biased from holding position by the action of centrifugal



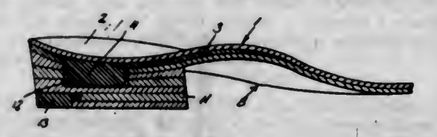
force, and also characterized by means acting positively to move said holding members into position to secure said carriers to said drivers successively, said means being



adapted to release said holding members at the transfer regions and thereby to permit transfer of said carriers from driver to driver.

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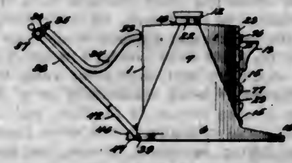
1,693,122. SHOE CONSTRUCTION. HENRY H. SCHWARTZ, Scranton, Pa. Filed Aug. 25, 1926. Serial No. 131,446. 2 Claims. (Cl. 36—37.)



2. In a shoe, the combination of an inner whole sole, and an outer whole sole, the outer whole sole having an opening formed in the heel portion thereof, of a heel attached to the bottom of the heel portion of the outer whole sole, said heel having a pocket formed in the upper portion thereof, a flexible shank interposed between the shank portions of said soles, the same comprising a strip of rubber which is stretched across the shank of the inner whole sole and cemented to the bottom thereof, and a rubber cushioning plug molded to said strip, said plug extending downwardly through the opening in the heel portion of the outer whole sole and disposed within the pocket provided therefor in the heel.

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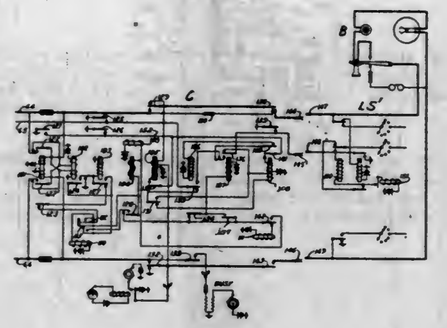
1,693,123. PNEUMATIC TOOL. WILLIAM JACKSON SPENCER, Troy, Idaho. Filed Jan. 5, 1926. Serial No. 79,387. 5 Claims. (Cl. 138—9.)



4. In a pneumatic jack the combination of a supporting stand, a vertical piston-rod secured in said stand, a piston at the upper end of said piston-rod, a cylinder telescoping over said piston, a vertically parallel pair of guide-bars on said cylinder and on opposite sides thereof, a pair of uprights on said stand, one on either side thereof and having their opposing faces vertically grooved for engagement with said guide-bars, and inlet and exhaust ports in the upper part of said cylinder.

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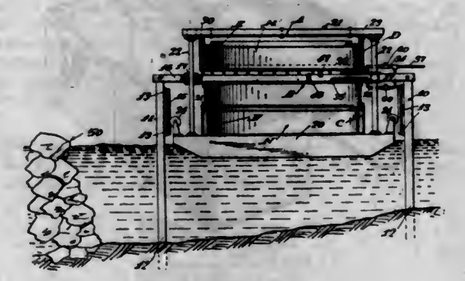
1,693,124. AUTOMATIC TELEPHONE SYSTEM. RUDOLPH F. STEHLIK, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed May 29, 1924, Serial No. 716,577. Renewed Feb. 27, 1928. 16 Claims. (Cl. 179—18.)



1. In a telephone system, a connector switch having wipers, a test conductor for said switch, a relay for connecting said wipers to said switch, a winding on said relay, circuit connections controlled by said relay for grounding said test conductor through said winding, a circuit for applying ringing current to a wiper of said connector, a second relay for opening said ringing circuit, and contacts on said second relay for connecting the ground potential to said test conductor over a path independent of said winding and for removing said winding from the circuit.

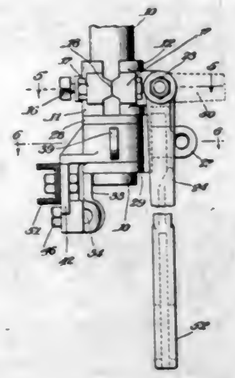
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1,693,125. TIDE-OPERATED AIR COMPRESSOR. THEODORE C. VAN EPPS, Los Angeles, Calif. Filed May 25, 1927. Serial No. 194,067. 7 Claims. (Cl. 230—67.)



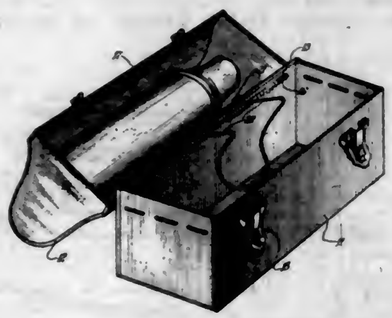
1. A tide operated compressor comprising in combination a pontoon, a super-structure above said pontoon, a stationary structure between said pontoon and superstructure, a collapsible tank attached to said pontoon and stationary structure, a second collapsible tank attached to said super-structure and stationary structure, and inlets and outlets for said tanks.

1,693,126. ADJUSTABLE LOCKING BEARING. TONY VAN RYAN and ALFRED ALSAKER, Chicago, Ill., assignors to The Delta-Star Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1926. Serial No. 137,929. 14 Claims. (Cl. 200—42.)



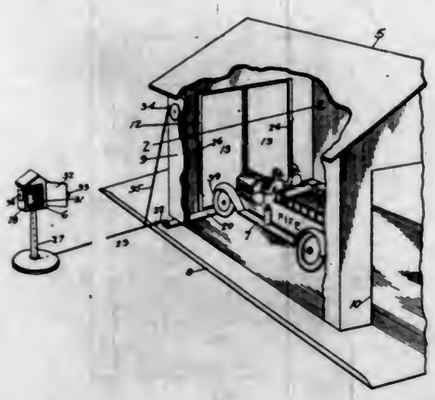
1. In combination, a switch operating shaft, an operating handle for said shaft, a support for said shaft, and adjustable means mounted on said support to which said handle may be secured in fixed position relative to said support.

1,693,127. LUNCH KIT. GEORGE F. WALTER and JOHN M. HOTHERSALL, Brooklyn, N. Y., assignors to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 13, 1925. Serial No. 43,079. 8 Claims. (Cl. 206—4.)



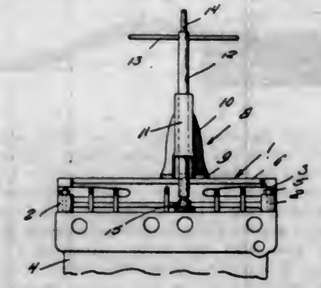
8. A lunch kit, comprising a body, a cover hinged thereto, and means for retaining a thermos bottle, or like article, in said cover, said means comprising a pivotally mounted member shaped to engage around a part of the circumference of the bottle and adapted to be automatically pressed against the bottle by the closing movement of said cover.

1,693,128. TOY FIRE-ENGINE HOUSE AND CALL BOX. FRED W. WARNER, Denver, Colo. Filed Oct. 8, 1925. Serial No. 61,238. 12 Claims. (Cl. 46—48.)



1. In a toy, the combination of a house element having a normally closed door, a self-propelling vehicle element having propelling means adapted to be pre-set, said element being held in check by the door when same is closed, and means for releasing the door at a point distant from the house element.

1,693,129. VALVE-SEAT REAMER. REX C. WILLIS, Seattle, Wash. Filed Mar. 11, 1925. Serial No. 14,740. 1 Claim. (Cl. 90—12.5.)



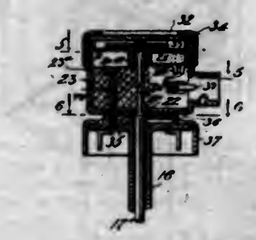
A valve seat reamer adapted to be removably secured to a cylinder block comprising a base having a bearing surface substantially coextensive with the length of the block including the valve seats, the upper surface of the base presenting a surface at true right angles to the axis of the valve seats, a tool mounting comprising a bracket having a broad bearing on the base, a connection between the bracket and base to permit a free rotative movement of the bracket with respect to the base, said connection having slidable connection with the base on a line parallel to a line joining the valve seats, an elongated arbor guide carried by the bracket and disposed beyond one edge thereof to permit the guide to be arranged in direct axial alignment with any valve seat, said arbor guide in any position of adjustment being maintained at a direct right angle to the bearing surface of the base, and a tool arbor freely slidable and rotatable in the arbor guide and held against any tilting movement therein, the lower end of the arbor being formed to removably cooperate with a reseating tool, whereby with the bracket adjusted to dispose the arbor guide and valve seat in axial alignment, the tool is compelled to cut the seat at right angles to the surface of the head.



1,693,130. ENAMEL-COATED ARTICLE. JOHN A. ANDERSON, Gardner, Mass., assignor to Central Oil & Gas Stove Company, Gardner, Mass., a Corporation of Massachusetts. Filed Dec. 5, 1923. Serial No. 678,784. 13 Claims. (Cl. 106—36.2.)

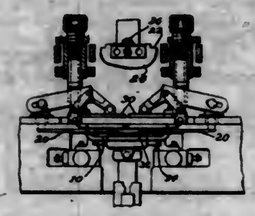
1. An a new article of manufacture, a heat resistant object comprising a base coated with enamel whose components include 60% silica and an anchoring material.

1,693,131. SIGNAL SWITCH FOR TANKS. SILVIO ANTONELLI, New Haven, Conn. Filed Mar 1, 1924. Serial No. 696,144. 2 Claims. (Cl. 200—84.)



1. In a signal device for gasoline tanks, a hollow stem having a head with openings therein radiating from said hollow stem, a rotatable shaft extending through said hollow stem, one end of said shaft extending into the gasoline tank to be immersed at times by the gasoline in said tank, an arm and float operatively connected to said rotatable shaft, an insulation member through which the other end of said shaft passes, conductor terminals carried by said insulation member, means on said stem for protecting said member from gasoline, and means carried by said stem for closing an electric circuit to operate a signal device when the rotatable shaft assumes a predetermined position.

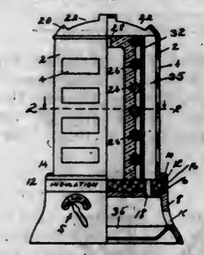
1,693,132. METHOD FOR USE IN THE MANUFACTURE OF SHOES. WILLIAM C. BAXTER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed July 25, 1921, Serial No. 487,394. Divided and this application filed Sept. 10, 1926. Serial No. 134,711. 9 Claims. (Cl. 12—142.)



1. That improvement in methods of making shoes which consists in utilizing a presenting tool to engage positioning surfaces provided in definite predetermined locations on a shoe part, for example on an upper, and to move the shoe part by such engagement into a predetermined position relatively to means for performing an operation thereon, and then removing the tool and operating on the part.

1,693,133. ELECTRIC HEATER. PAUL ROBERT GEORGE BIEDERMANN, Los Angeles, Calif. Filed July 29, 1927. Serial No. 209,249. 4 Claims. (Cl. 219—34.)

4. In an electric heater, a casing, a base upon which said casing is positioned, means for insulating said casing from said base, grooved cylinders of refractory material in said casing, means for insulating said cylinders from said casing and said base, electric heating coils partly positioned in said grooves for heating said cylinders to incandescence, said casing being provided with air passages



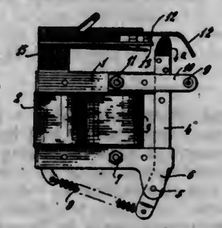
whereby the external air may be heated by convection currents, means for varying the electric current supplied to said coils, and means associated with said casing for moistening the heated air.

1,693,134. DEVICE FOR CLEANING TUBES OR THE LIKE. ADOLF BRENDLIN, Knapsack, near Cologne, Germany. Filed Apr. 8, 1926, Serial No. 100,517, and in Germany July 27, 1925. 6 Claims. (Cl. 15—104.05.)



1. A tube-cleaning device comprising a screw spindle, a pair of nuts rotatably threaded on said spindle and spaced from each other, a cage encircling said spindle and formed of a plurality of helical scraping members each having its opposite ends secured to said nuts, the direction of the helices of said scraping members being opposite to that of the threads of the screw spindle, so that the torsion caused by pushing the device through the tube causes one of said nuts to move toward the other thereby decreasing the diameter of the cage as the resistance increases, and vice-versa.

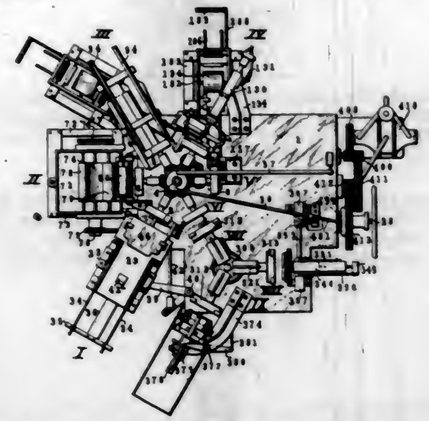
1,693,135. ELECTROMAGNET. ALLEN D. CARDWELL, Rockville Center, N. Y. Filed Feb. 17, 1927. Serial No. 168,851. 10 Claims. (Cl. 175—337.)



1. An electromagnet including an armature, means to produce a magnetic circuit, and means to produce a second

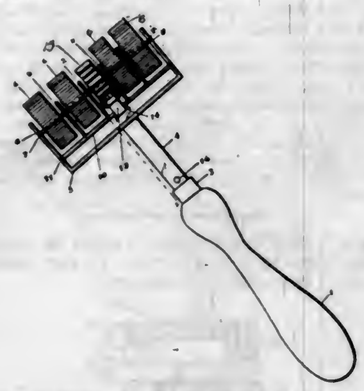
magnetic circuit in inductive relation to and operative only by the first named circuit for producing a resultant magnetic flux for operation of the armature, the armature being out of control by either magnetic circuit independently.

1,693,136. MACHINE FOR MAKING PAPER BOXES. HAROLD CARLE, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario. Filed Apr. 27, 1923, Serial No. 635,078. Renewed Sept. 8, 1928. 132 Claims. (Cl. 93—40.)



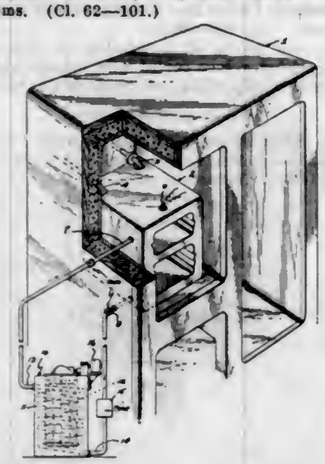
1. In a machine of the class described, in combination, a mandrel having means for holding a blank thereon while it is being folded, a second mandrel having means for holding the folded blank thereon, means for moving the mandrels synchronously to cause them to register after a predetermined movement, and means for transferring the folded blank from the first to the second mandrel when they are in register.

1,693,137. MASSAGE INSTRUMENT. LOUIS CASPER, Brooklyn, N. Y. Filed Nov. 8, 1924. Serial No. 748,667. 4 Claims. (Cl. 128—57.)



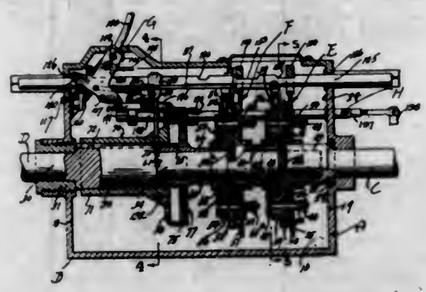
1. In a massage instrument having a head, a handle attached to a shaft supported by said head, a series of spaced rollers mounted on the shaft, a gear wheel mounted upon the shaft and between two of the rollers, a vibrating finger between two of said rollers, and means co-acting with said gear wheel to vibrate said finger, the applicator end of said finger being normally in the space between the rollers, and adapted to operate upon the body or flesh of the operator.

1,693,138. REFRIGERATING SYSTEM AND METHOD OF OPERATING THE SAME. LLOYD G. COPEMAN, Flint, Mich. Filed Sept. 18, 1926. Serial No. 136,245. 6 Claims. (Cl. 62—101.)



1. A domestic refrigerating system comprising a refrigerating unit provided with a refrigerating apparatus for continuous normal operation, a separate refrigerating unit adapted for infrequent operation, both of said refrigerating units being provided with cooling units, a refrigerant circulating means comprising pipes formed in a closed path and passing through the wall of said domestic refrigerating unit for connecting said cooling units and positioned in heat absorbing relation with the cooling unit of said first refrigerating unit, and means for stopping the flow of refrigerant between said two units.

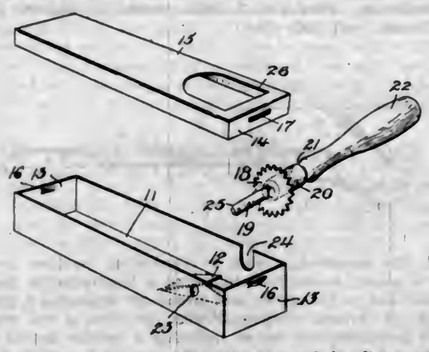
1,693,139. CHANGE-SPEED MECHANISM. OSCAR A. DIETSCHE, Los Angeles, Calif. Filed Jan. 12, 1927. Serial No. 160,683. 12 Claims. (Cl. 74—84.)



1. In a change speed mecbanism the combination of a drive shaft, a driven shaft, a sleeve rotatable on the driven shaft, reduction gears geared with the drive shaft and sleeve for drive of the latter at a reduced speed ratio, means for clutching the gears in a locked relation with the sleeve and drive shaft for bodily rotation therewith, a second sleeve rotatable on the driven shaft, reduction gears in a geared relation with said sleeves, for drive of the second mentioned sleeve at a reduced speed ratio, means for locking the second mentioned reduction speed gears with the two sleeves for drive of the same at the same rate of speed, means for keying the second sleeve with the driven shaft including a shiftable member, and means for shifting the member to key or disconnect the second mentioned sleeve with respect to the driven shaft.

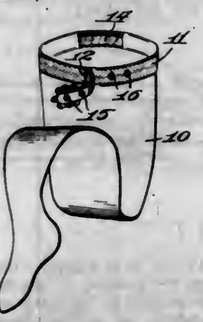


1,693,140. RATTLE. CARL H. DIETZE, JR., Newark, N. J. Filed Apr. 9, 1928. Serial No. 268,459. 4 Claims. (Cl. 46—46.)



2. A rattle comprising a sheet metal box-like casing with a lip struck up from the bottom and having opposed openings, at least one of said openings being a slot, a spindle fitting in the openings and including a handle beyond the casing, a ratchet on the spindle to engage the lip, and a lid to close the box and having flanges to engage the spindle to hold it in place.

1,693,141. HOSIERY. HARRY H. DUCAT, Los Angeles, Calif. Filed June 15, 1927. Serial No. 198,973. 1 Claim. (Cl. 2—240.)



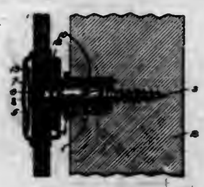
The combination with a hose or stocking provided at the upper end of its body with a hem, of a flexible strap arranged within said hem, one end of which flexible strap, projects through an opening in said hem, the other end of said strap terminating within said hem immediately adjacent to the opening through which the opposite end of said strap projects and means for detachably connecting the projecting end of said strap to said hem.

1,693,142. SEPARABLE FASTENER. DIDRICK DYRESEN, Malden, Mass. Filed Dec. 20, 1924. Serial No. 757,154. 13 Claims. (Cl. 24—211.)



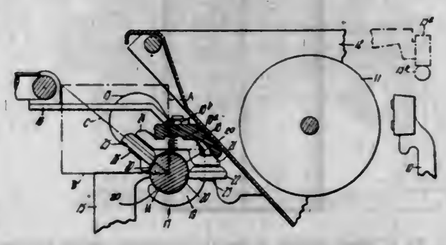
13. A fastener stud comprising a casing countersunk into a rigid support and a socket-engaging part shiftable axially in said casing to present beyond the outer end of said casing a head and a neck for cooperating with a suitable socket.

1,693,143. SEPARABLE FASTENER. DIDRICK DYRESEN, Malden, Mass. Filed Dec. 20, 1924. Serial No. 757,155. 2 Claims. (Cl. 24—211.)



2. A fastener stud presenting, in combination, a casing part, a socket-engaging part axially shiftable relative to said casing part, said socket-engaging part presenting a head and a neck, and spring means interposed between an abutment presented by the casing and an abutment presented by the socket-engaging part thereby normally pressing said socket-engaging part inwardly relative to the casing, and means cooperating beyond the socket-engaging part and the casing part to limit the inward movement of the socket-engaging part whereby only the head and a portion of the neck of the socket-engaging part are normally exposed beyond the outer end of said casing part.

1,693,144. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 17, 1925. Serial No. 62,998. 5 Claims. (Cl. 197—69.)

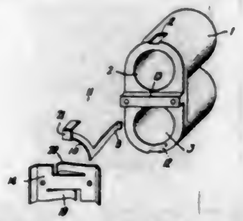


1. In a typewriting machine, the combination with a way-rod and a carriage to be guided thereby, of guiding units articulated to the carriage near the ends thereof, each unit formed to fit a locating seat upon the carriage, and means to secure the unit upon the carriage, each unit having a collar and a pair of rolls, all of said rolls being between said collars, each collar fitted to said way-rod to support and guide the carriage thereon and prevent upward displacement of the carriage, each of said units having one carriage-supporting roll to relieve the friction between the collar and the way-rod when the carriage is weighted, said carriage-supporting roll bearing upon the rear upper crown-portion of the way-rod to relieve the friction of the collar upon said crown, and to form the main support for the weight of the carriage at that end, and the other roll in each pair mounted to bear against the front side of the way-rod to support the carriage against the blows of the type falling upon the front of the platen.

1,693,145. ADJUSTABLE SOCKET FOR LUMINESCENT-TUBE SIGNS. WILLIAM F. HENDRY, Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc., a Corporation of Massachusetts. Filed Oct. 27, 1926. Serial No. 144,468. 8 Claims. (Cl. 173—328.)

1. In a mounting for luminescent tubes, a socket having a body of insulating material with two perforations for

receiving the electrodes, a leaf spring in each perforation bulging outwardly at its middle to press the electrode against the wall of the perforation, a tab formed on the end of each spring extending to the outside of said body,



two stationary bus bars, means for supporting said socket so that it may be rotated and horizontally displaced with respect to said bus bars, and means for maintaining said tabs in contact with said bus bars in all positions of said socket.

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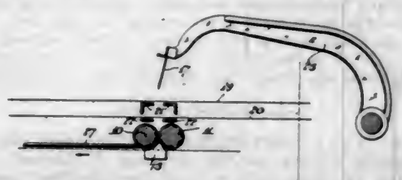
1,693,146. LIQUID HOLDER. GEORGE THOMPSON KEELER, New York, N. Y. Filed Nov. 23, 1927. Serial No. 235,219. 5 Claims. (Cl. 221—108.)



1. In a liquid holder, a multi-chambered casing having an outlet neck, in combination with a stationary inner cone having an orifice communicating with each chamber, and a rotary cone within the first cone and having a single orifice that coincides with either of the orifices in the stationary cone, said rotary cone having a disk projecting outwardly so as to be manually engaged for adjustment, and having an outlet within the outlet neck.

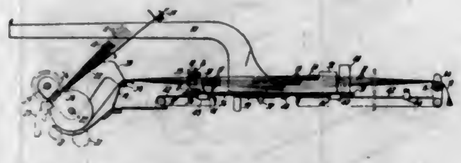
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1,693,147. SHEET FOLDING. HOWARD K. KING, Philadelphia, Pa., assignor to Chambers Brothers Company, a Corporation of Pennsylvania. Filed July 1, 1927. Serial No. 202,874. 5 Claims. (Cl. 270—45.)



1. The method of folding sheets which consists in exerting actuating force on the sheet at intervals on a straight line of crease and simultaneously to cause the same to be subjected to creasing pressures at other intervals on said line of crease alternating with the first intervals.

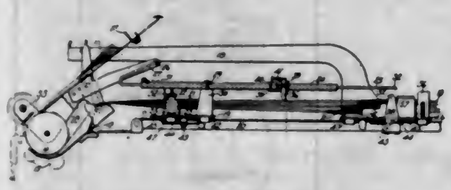
1,693,148. TYPEWRITING MACHINE. HIRAM S. LASHER, Bronx, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1925. Serial No. 67,544. 15 Claims. (Cl. 197—126.)



1. The combination with a typewriting machine having a platen, means for conducting a longitudinally fan-folded web to the platen, and means for displacing a plurality of carbons interleaved with the plies of the web, said last-mentioned means including a carrier having a plate and means for attaching the carbons to said plate, of means for separating the plies of the web, said last-mentioned means being adjustably mounted upon said plate, at a point between the means for attaching the carbons and the platen.

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1,693,149. TYPEWRITING MACHINE. HIRAM S. LASHER, New York, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 12, 1925. Serial No. 68,553. 28 Claims. (Cl. 197—126.)



1. The combination with a typewriting machine having a platen, means for guiding a longitudinally fan-folded web to said platen, means including a carbon-holder for shifting the position of carbons interleaved with the plies of said web, a device for displacing the platen preparatory to the carbon-shifting operation, of means for shifting the plies of the web previously to the insertion of the web around the platen; said last-mentioned means including a truck arranged to reciprocate towards and away from the platen, and means operatively connected to said displacing device for operating said truck relatively to said carbon-holder at the operation of the platen-displacing device.

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1,693,150. BOX. JOSEPH MALONYAY, Budapest, Hungary, assignor to Julius Donner, Budapest, Hungary. Filed Apr. 26, 1927, Serial No. 186,687, and in Hungary June 5, 1926. 1 Claim. (Cl. 220—60.)

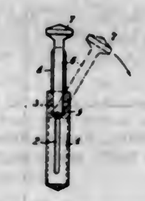


A box of the type described, consisting of a body having a circular groove on its side and a tapering edge, in combination with a lid having a turned-down flange comprising a tapering upper zone adapted to receive said tapering edge of the body, and a cylindrical lower zone provided at opposite circumferential portions with narrow recesses forming internal feathers adapted to catch with said groove in the closing position of the lid and positively lock said lid against lifting, but capable of being disengaged from said groove by compressing said flange between said recesses, said circular groove being so distanced from said tapering edge that by causing said feathers to catch with said groove said tapering zone of the lid is forced on to said tapering edge of the body.



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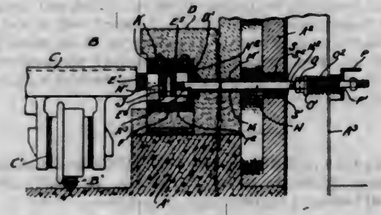
1,693,151. DEVICE FOR HOLDING AND APPLYING COSMETICS AND THE LIKE. PAUL MAYER, Vienna, Austria. Filed Aug. 3, 1926, Serial No. 126,821, and in Austria May 5, 1926. 13 Claims. (Cl. 206—56.)



12. A holder comprising a holder tube, a carrier member telescoping within said holder tube, a cover member having an arm disposed outside said holder tube, and means for connecting said arm and carrier member.

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1,693,152. FURNACE-TRUCK SEAL. PAUL A. MEEHAN, Cleveland, Ohio, assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio, a Corporation of New York. Filed May 6, 1927. Serial No. 189,271. 6 Claims. (Cl. 25—142.)

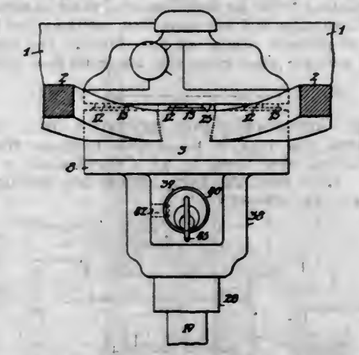


1. In a tunnel kiln comprising an elongated kiln chamber and cars forming a ware supporting platform part movable longitudinally through said chamber, means for sealing a joint between said part and an adjacent part of the kiln wall comprising a bearing shoe mounted for horizontal movement on one of said parts, and mechanical means for holding said bearing member in frictional engagement with the other of said parts.

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1,693,153. AUTOMOBILE STEERING-WHEEL HUB. JAMES A. MURPHEY, Germantown, Pa. Filed Jan. 6, 1926. Serial No. 79,546. 2 Claims. (Cl. 70—129.)

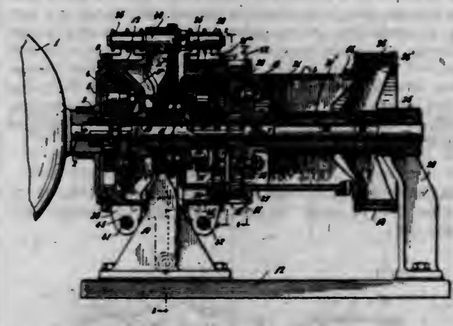
1. An article of manufacture consisting of a single unitary structure forming a hub for a steering wheel of an automobile, and having an axial opening therethru adapted to rigidly fit a steering shaft in coaxial relation therewith; an annular flange on said hub, intermediate of its length, adapted to form a protective covering for hub locking means; means on said flange, including a circular series of holes for fastening means, arranged to rigidly connect it with the spokes of a steering wheel; and a tubular skirt flange, depending from said annular flange, having a circular series of gear teeth formed upon the exterior thereof,



and terminating above the lower end of said hub; whereby, said hub is adapted to be held stationary by said hub locking means, in any selected position of rotation.

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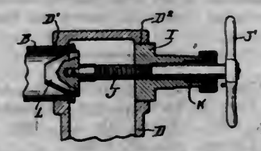
1,693,154. TRANSMISSION MECHANISM. JOHN NEWMANN, Glendale, N. Y. Filed Mar. 16, 1927. Serial No. 175,693. 8 Claims. (Cl. 74—34.)



1. An apparatus of the character set forth comprising a driving member, a driven shaft, gearing for rotating said shaft at speed reduced from the speed of the driving member, a gear concentric with said shaft, brake means to control the rotation of said gear and the first named gearing, a driven member, reducing gearing operative by said shaft and cooperative with the concentric gear and with the driven member for rotating the latter at speed reduced from the speed of the driving member when the rotation of the concentric gear is retarded, and reversing gearing cooperative between said shaft and the driven member for rotating the latter by said shaft in a direction reverse to its rotation by the other gearing.

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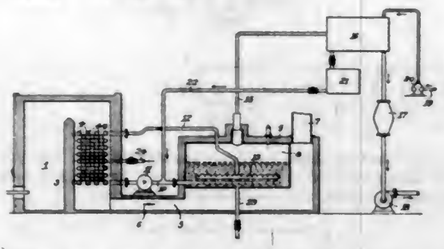
1,693,155. OIL HEATER. JOHN PRIMROSE, Richmond, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1925. Serial No. 13,709. 3 Claims. (Cl. 196—110.)



3. In an oil heater, the combination with a multiplicity of tubular elements and end connections providing a plu-

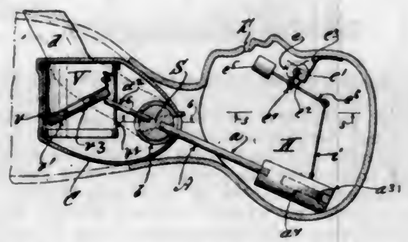
rality of similar flow paths for the oil to be heated, each comprising a number of said elements connected in series, of flow distribution controlling means comprising a separate flow regulating device for each flow path which is adustable between maximum and minimum flow positions and is incapable of entirely closing off flow through the path to which it pertains when in its said minimum flow position.

1,693,156. APPARATUS FOR REFINING OILS. JOHN PRIMROSE, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a Corporation of New York. Filed June 21, 1922. Serial No. 569,912. 2 Claims. (Cl. 196—83.)



1. An oil heating apparatus comprising a furnace having a fire chamber and a tube chamber separated from the fire chamber by a bridge wall over which heating gases from the fire chamber enter the tube chamber at the top and having an outlet for heating gases at the bottom of the tube chamber, a bank of horizontally disposed tubes in said tube chamber, an external tank, a circulating pump and connections between said tubes, pump and tank whereby the pump forces oil from the tank successively through tubes at successively higher levels in said tube bank and thence back into the chamber.

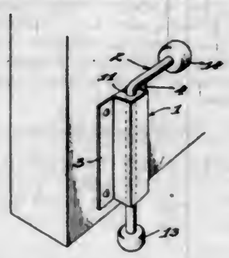
1,693,157. DOLL. FRED J. RAUFFUS, Great Kills, N. Y. Filed Dec. 14, 1926. Serial No. 154,732. 2 Claims. (Cl. 46—40.)



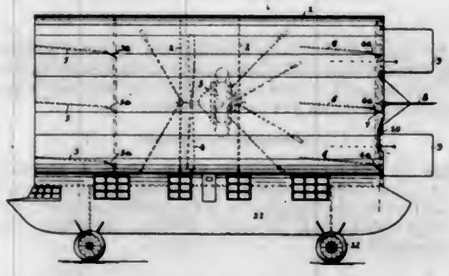
1. In a doll, a hollow head having eye openings, eyes pivoted in said head to swing to an "open" or "closed" position, a gravity means associated with the eye pivot and normally tending to close the eyes when the doll is recumbent and open said eyes when said doll is upright, a second gravity means associated with said first gravity means and normally overbalancing the same, to hold said eyes open when the doll is recumbent, and manually operable means associated with said second gravity means to move the latter to a position which will permit the first gravity means to operate to close said eyes when the doll is recumbent.

1,693,158. COMBINED DOORCHECK AND DOOR BUMPER. OTTO R. REINICKE and CHARLES R. LEEMAN, Jr., Detroit, Mich. Filed July 23, 1926. Serial No. 124,330. 6 Claims. (Cl. 292—60.)

1. A combined door check and door bumper, comprising a housing, an operating member movable longitudinally of the housing, resilient means within the housing normally tending to force the operating means downwardly, a key on said operating means and a key-way on said housing for registering therewith, said operating member being operative in one position to operate as a door check, and adapted to be moved vertically, and moved to another position to operate as a door bumper, and a third position in which it is totally inoperative.

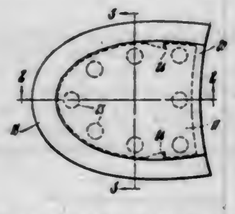


1,693,159. AEROPLANE. GUSTAV RICKELMANN, Haledon, N. J. Filed Sept. 7, 1927. Serial No. 217,960. 2 Claims. (Cl. 244—18.)



1. An aeroplane including a hollow cylindrical body arranged horizontally and having a forward and a rear end and planes arranged within said body so as to stand horizontally as viewed lengthwise and a rear plane-extension for each plane pivotally movable on a horizontal axis at the forward part of such plane-extension.

1,693,160. HEEL BASE FOR SHOES. CHARLES O. RYBERG, Brockton, Mass. Filed Jan. 16, 1928. Serial No. 247,085. 4 Claims. (Cl. 36—34.)



1. A heel base formed to be interposed between the outer face of the heel end portion of a shoe outsole and the top face of a heel attached to the shoe, said base comprising a heel-shaped body composed of layers of compressible material, and having a recessed inner face, formed to bear on an outsole, and a flat outer face formed to bear on a heel, and a stiffening layer of sheet metal of smaller area than the body, and secured thereto with its margin entirely within the margin of the body, and concealed thereby when the heel base is incorporated in a shoe.

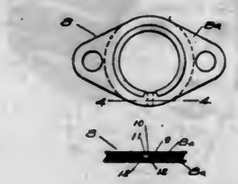


1,693,161. FOUNTAIN BRUSH. THOMAS SANDRETTO, Gary, Ind. Filed Jan. 6, 1926. Serial No. 79,665. 2 Claims. (Cl. 251—8.)



1. In a valve for fountain brushes, a pipe-section, a hollow handle adapted to be connected to a brush head, one end of said handle connected to the pipe section, said pipe section being threaded with its extremity closed and lateral intake ports spaced from said extremity, a coupling member threadedly mounted on said end of the pipe section and having an opening therein opposing the extremity of the pipe section and further having communicating passages leading from said opening to points with which said lateral ports are adapted to register, whereby when the handle and pipe section are turned in one direction said lateral ports and valve opening will be closed and when turned in another direction said opening and ports will be opened.

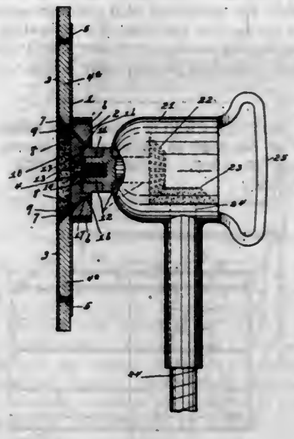
1,693,162. AUXILIARY AIR AND DRAINAGE DEVICE FOR GASOLINE-ENGINE INTAKES. EUGENE M. SATTERLEE, Meadville, Pa., assignor of one-half to The Standard Trailer Company, Cambridge Springs, Pa., a Corporation of Ohio. Filed Feb. 2, 1925. Serial No. 6,324. 1 Claim. (Cl. 48—180.)



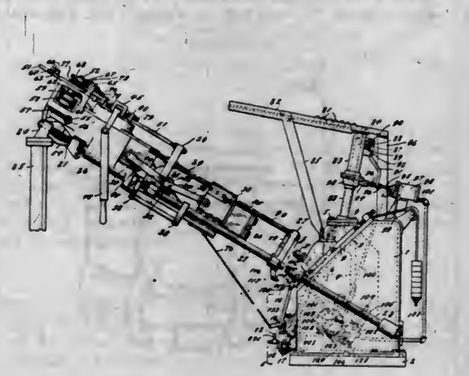
An auxiliary air and fuel drainage device adapted to be inserted between the carburetter and intake manifold, the air inlet opening in the gasket being on the drainage side of the manifold, said device comprising a gasket consisting of top and bottom metal plates and an intermediate layer of yielding material, said yielding material having an unobstructed spray and drainage opening therethrough, and a corrugated metal plate, the corrugation of the plate being arranged in the opening.

1,693,163. DISK SANDING MECHANISM. ELMER C. SCHACHT, Troy, N. Y., assignor to Peerless Surfacing Machine Co. Inc., Troy, N. Y., a Corporation of New York. Filed Mar. 1, 1926. Serial No. 91,426. 2 Claims. (Cl. 51—197.)

1. In an apparatus of the character described, the combination of a support including a hub provided in an end face with a depression or well of polygonal form in a plane transverse to the hub axis, an initially flat abrasive disk provided with a central aperture and a series of slits extending radially from said aperture, one for each angle of the polygon, a clamping plate conforming in shape to the cross-sectional form of the well in the hub of the support, and means for connecting said plate and hub, including a member extending through the central aperture in the disk and adapted to draw the plate into said well, the portions of the disk separated by said slits being thereby drawn into the hub well and clamped between the side walls of the latter and the plate, relative rotation between the disk and support being positively prevented by the shape of the clamping plate and well.



1,693,164. DIE-CASTING APPARATUS. MARC STERN, Flint, Mich., assignor to Doehler Die-Casting Company, a Corporation of New York. Original application filed May 24, 1924, Serial No. 715,712. Divided and this application filed Aug. 31, 1926. Serial No. 132,683. 6 Claims. (Cl. 22—69.)

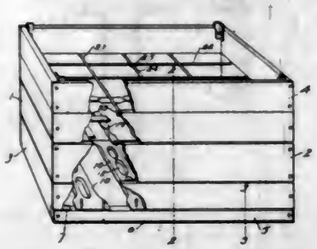


1. A die casting machine comprising a pressure chamber forming a melting pot for metal to be cast and provided with a nozzle, automatically operated means including a valve device for admitting a fluid under pressure into the pot to eject the molten metal through the nozzle into the die and thereafter automatically to exhaust the pressure fluid from the pot, and a metal-replenishing feed mechanism operating automatically in timed relation to said valve device to feed ingots to the pot at times while the pressure fluid is exhausted therefrom, said feed mechanism comprising a valve to prevent the escape of pressure fluid from the top of the pot and operable to permit the passage of an ingot at times when the pressure fluid has

been exhausted from the pot, an ingot-feeding device operable to drop an ingot through the open valve into the pot, connections between said ingot-feeding device and valve to compel their concurrent operation, fluid pressure operated means for operating said valve and ingot-feeding device, fluid pressure controlling means in control of the pressure fluid for operating said fluid pressure operated means, and means for automatically operating said fluid pressure controlling means in proper timed relation with the automatic operation of said valve device.

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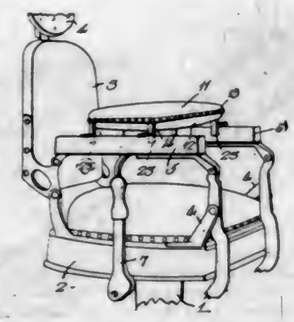
1,693,165. BOTTLE CRATE. JOHN VAN GEEM, Erie, Pa., assignor of one-half to Delmar Van Geem, Erie, Pa. Filed July 29, 1926. Serial No. 125,639. 3 Claims. (Cl. 217—19.)



1. In a bottle crate, the combination of a crate wall having wall strips with perforations opening from the edge of said strips; bottom plates having perforated ends extending over wall strips; and rods extending along the plates and at an angle to the body of the rods through the perforations in the plates and into the perforations in the adjacent strips.

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1,693,166. BARBER-CHAIR SEAT FOR CHILDREN. JOHN J. WALCOM, Burlingame, Calif. Filed June 29, 1926. Serial No. 119,286. 1 Claim. (Cl. 155—131.)

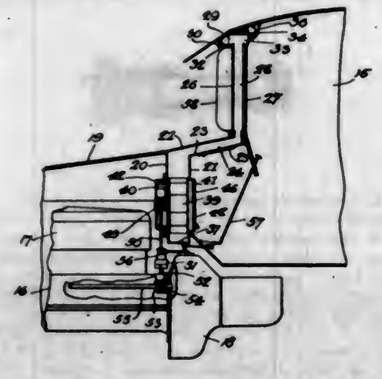


A seat of the class described comprising a seat member upholstered on both sides, vertical lugs depending from said member, said lugs having laterally extending lugs, intermediate the ends of said vertical lugs whereby the portions of said vertical lugs above and below said lateral lugs are adapted to engage the sides of the arms of a chair when said lateral lugs rest thereon.

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1,693,167. WINDOW SHIELD. JAMES R. C. WATSON, Philadelphia, Pa. Filed June 9, 1926. Serial No. 114,695. 5 Claims. (Cl. 296—84.)

1. The combination with a vehicle provided with a window, of a blower, a conduit leading from said blower to a point above the window; a closure for the outer end of said conduit adapted when open to deflect the stream of air issuing from the conduit downward across the win-



dow; and wings on both sides of the path of travel of said air stream to prevent deflection of the latter by side winds.

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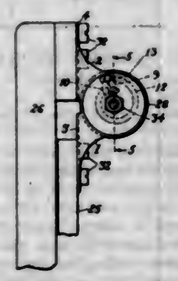
1,693,168. WATER-WAVE COMB. ARTHUR R. WELLER, Spokane, Wash. Filed Mar. 7, 1928. Serial No. 259,748. 4 Claims. (Cl. 132—38.)



1. The combination with a comb of a pair of longitudinally oppositely extending resilient anchoring prongs carried thereby and adapted to receive a cord arranged transversely of the comb.

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1,693,169. HINGE. WILLIAM BERTRAM YOUNG, London, England, assignor to Frank Howard Hague, London, England. Filed Nov. 23, 1926, Serial No. 150,189, and in Great Britain May 29, 1926. 9 Claims. (Cl. 16—139.)



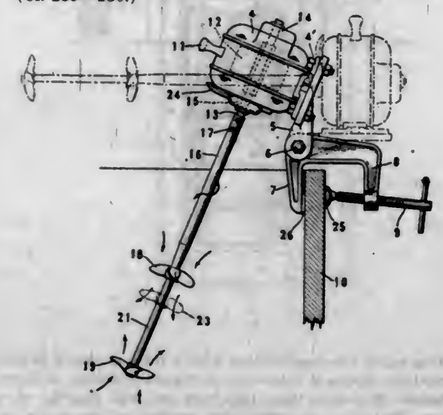
1. A hinging device comprising arms mounted to move angularly about a common axis each arm having a slot



therein the two slots intersecting at different points in their length and different radial distances from the common axis with variation of the angular relation of the arms, an intermediate member engaging in both said slots at their intersection, and operating means rotatable about the common axis for varying the radial distance of said intermediate member from the common axis thereby varying the angular relation of the arms.

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1,693,170. MIXER. SAMUEL ALSOP, New York, N. Y. Filed Mar. 30, 1925. Serial No. 19,263. 6 Claims. (Cl. 259—130.)



1. A mixer comprising, a clamp adapted to be secured to the edge of a liquid reservoir, a motor having a casing hinged to said clamp and a shaft rotatably supported in said casing and tiltable therewith, a number of propellers secured to said shaft and rotatable therewith, the lower propeller being shaped to raise an amount of liquid and the upper propeller being shaped to circulate a larger amount of liquid downwardly.

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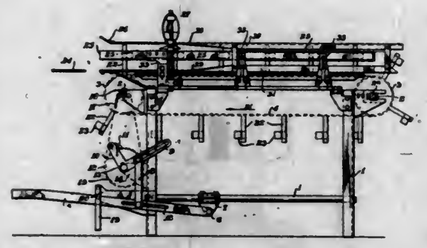
1,693,171. FOUNTAIN PEN. EDWARD BERGQUIST, New York, N. Y. Filed Nov. 25, 1924. Serial No. 752,127. 6 Claims. (Cl. 120—47.)



1. In a fountain pen, a pen barrel, an ink "fount" arranged therein, said fount consisting of telescopic tubes of different diameters, one tube communicating with the pen point and communicating with the interior of the outer tube and a plug secured to the outer tube, an atmospheric passage centrally arranged therein and a valve plug having its stem secured in the passage of the first named plug and with passages communicating with the air passage of the first named plug and the interior of the outer tube.

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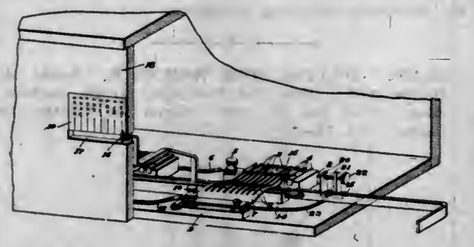
1,693,172. MEANS AND METHOD FOR MAKING AND SEALING BOXES AND THE LIKE. SAMUEL BERGSTEIN, Middletown, Ohio, assignor to The Interstate Folding Box Company, Middletown, Ohio. Filed June 21, 1926. Serial No. 117,350. 11 Claims. (Cl. 93—2.)



1. The herein described method of forming, filling and sealing boxes consisting in preparing the sealing flaps of box blanks with adhesive in enveloping a content in blank with sealing flaps extended, in causing the box to be acted on successively, to render one of the sealing flaps adhesive, to fold the sealing flaps one relative to another over a supporting element, and to effect adhesion between the flaps by causing opposing pressures to be applied upon the flaps between said supporting element and coacting pressure elements.

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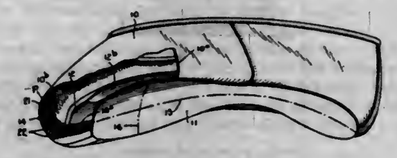
1,693,173. CONDENSER. GEORGE H. BROWN, Newton, Mass. Filed Oct. 7, 1925. Serial No. 61,017. 7 Claims. (Cl. 175—41.5.)



1. A condenser for radio telephony and the like, comprising a series of variable condenser units, each adjustable independently of the others to vary its capacity, and adjustable means for connecting any desired number of said units into a circuit, whereby the capacity necessary to modify an inductance to suit different wave lengths may be readily obtained.

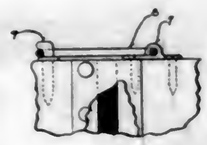
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1,693,174. BALLET SLIPPER AND METHOD OF MAKING THE SAME. SALVATORE CAPEZIO, East Paterson, N. J. Filed Oct. 22, 1927. Serial No. 227,908. 15 Claims. (Cl. 36—1.)



1. A ballet slipper for toe dancers comprising an outer sole, an inner shank and an upper attached to said sole and shank, said shank being convex longitudinally of the slipper to produce a relatively high arch and being convex transversely of the slipper over a substantial frontal area thereof to produce a balancing foot support.

1,693,175. KNOCKDOWN BOAT. IMMANUEL H. DIEHL, Milwaukee, Wis. Filed July 19, 1926. Serial No. 123,368. 1 Claim. (Cl. 9—2.)



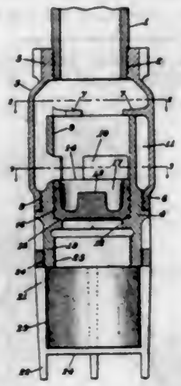
A knock-down boat comprising a body portion formed of a plurality of sections, each of said sections having a bottom and side walls, each of said sections also having at one of its ends an upper and lower plate, said plates forming between them a channel for the reception of the adjacent edge of the next section, a yieldable gasket located in each channel, pivoted links carried by the upper face of the side walls of each section adapted to engage pins carried by the upper face of the side walls of the adjacent sections, whereby said sections may be rocked about their upper edges to cause engagement of their lower edges, and a plurality of longitudinally extending cables secured to the front and rear sections by means of eyelets, the rear eyelets terminating in shanks adapted to pass through brackets secured to said rear section, one of said cables being located below the bottom of the sections, and means for selectively tightening the cables.

1,693,176. FOLDING HEM ADJUSTER. LAURA A. HANES, Tiffin, Ohio, and VERNE D. HANES, Jackson, Mich. Filed Oct. 31, 1927. Serial No. 230,160. 3 Claims. (Cl. 33—9.)



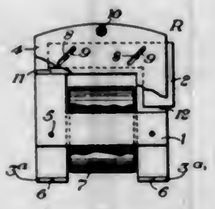
1. In a device of the character described, a base provided in its face with a transverse groove, a cross piece or yoke adapted to seat in said groove, measuring and marking strips carried by said yoke and resilient means for yieldably holding the yoke in said groove against casual displacement.

1,693,177. VALVE. JOHN H. HODGART and ANDREW V. BAYDON, Toronto, Ontario, Canada. Filed Dec. 28, 1925. Serial No. 78,032. 1 Claim. (Cl. 251—127.)



In a valve, the combination with a tubular casing having oppositely disposed inlet and discharge openings of lesser internal diameter than the body of said casing, of a sleeve threading into said inlet opening and having a reduced tubular extension extending into the body of said casing and providing an annular fluid chamber therearound, said sleeve having outlet ports at intervals therearound, the lower walls of said ports being above the bottom of said chamber, said sleeve providing a valve seat positioned below said chamber, and a valve slidable across said ports to alternate positions clear of said ports, said valve when in contact with said seat completely filling the space between the lower walls of said ports and said seat and when in its fully raised position filling the space within said sleeve above said ports.

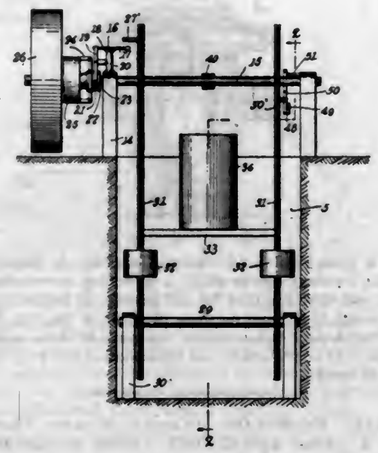
1,693,178. REACTANCE DEVICE. SAMUEL M. LUCAS, Pittsburgh, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1927. Serial No. 180,450. 5 Claims. (Cl. 171—242.)



1. An adjustable reactance device comprising a core of magnetizable material made up of a fixed portion and a movable portion, a winding on said fixed portion, a plate secured to the fixed portion and having inclined slots therein, and a plurality of pins in said movable portion co-operating with the slots in said plate for adjusting the position of said movable portion to vary the reactance of said winding.

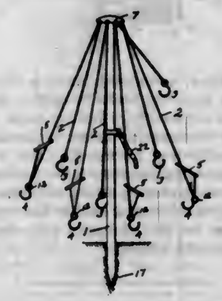


1,693,179. BRICK MACHINE. FRANK MILLER, Claysburg, Pa. Filed Nov. 11, 1926, Serial No. 147,642. Renewed May 2, 1928. 8 Claims. (Cl. 25—1.)



1. A brick making machine comprising a plurality of bearings adjacent and at the bottom of a pit, shafts journalled in said bearings, connections between said shafts and means on one of said shafts to transport plastic material from a storage hopper to a plurality of moulds.

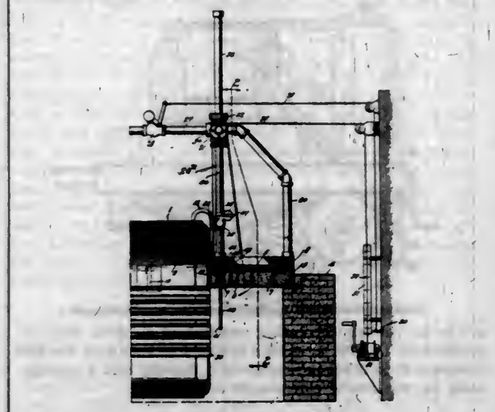
1,693,180. FRUIT-TREE PROP. PHIL FRANCIS PHELP, Los Angeles, Calif., assignor of one-half to Harry L. Bonnell, Los Angeles, Calif. Filed Dec. 4, 1926. Serial No. 152,614. 3 Claims. (Cl. 47—43.)



3. In a tree prop, a pole, a rope strung loosely from the pole to be drawn in one direction or the other, means on the ends of the rope for engaging limbs of the tree respectively, and means for varying the length of the rope.

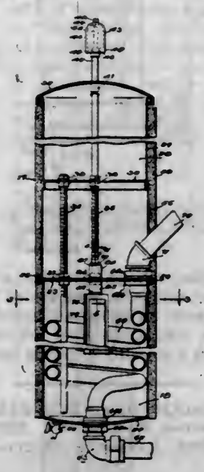
1,693,181. BOILER-TUBE-BLOWING DEVICE. JOHN N. QUINN, Cincinnati, Ohio; Richard W. Quinn administrator of said John N. Quinn, deceased. Filed Aug. 1, 1924. Serial No. 729,635. 5 Claims. (Cl. 122—391.)

1. In a device of the class described, a main frame structure including a vertically disposed conduit closed at its upper end and having a stuffing box at its opposite end, a movable conduit extending through said stuffing box and telescopically into said conduit, a manifold connected with



said movable conduit slidable on said frame, and a plurality of tubes depending from said manifold and relatively parallel, each tube having a nozzle opening at its lower end.

1,693,182. HEATING DEVICE. RICHMOND ROCHESTER, Jr., Chicago, Ill., assignor to Automatic Electric Boiler Co., Chicago, Ill., a Corporation of Delaware. Filed June 24, 1926. Serial No. 118,287. 14 Claims. (Cl. 219—40.)

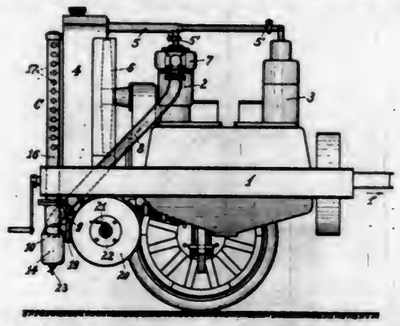


1. The combination with a hot water tank, of a receptacle for holding water, spaced electrodes projecting into the receptacle and arranged so that an electrical current may flow therebetween through the water, tubular means disposed in the receptacle whereby water may be heated through an exchange of heat with the water in the receptacle, said tubular means being sealed from communication with the interior of the receptacle, and means connecting said tubular means with the tank to obtain a circulation of water therethrough by a thermo-siphon action.

1,693,183. PORTABLE COMPRESSOR PLANT. GERHARD ROTHMANN, Herne, Germany. Filed Apr. 9, 1928, Serial No. 268,555, and in Germany July 8, 1926. 9 Claims. (Cl. 230—211.)

1. A portable compressor-plant comprising an air-compressor, a motor for operating said air-compressor, a

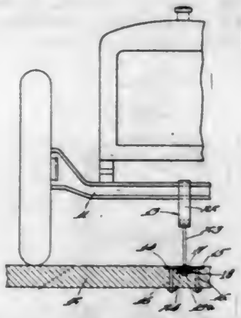
water-cooler, a ventilator for creating a current of air for cooling the contents of said water-cooler, an air-cooler arranged in the current of air created by said ventilator,



means for leading the heated compressed air from said air-compressor to said air-cooler destined to cool said air and condense the oil-vapours suspended therein, and a storage-tank for the cooled compressed air.

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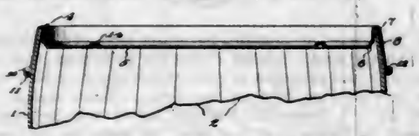
1,693,184. VEHICLE ANCHORING DEVICE. VINCENT P. RUMELY, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 30, 1925. Serial No. 5,813. 5 Claims. (Cl. 105—368.)



1. In combination, a freight car floor, a pair of rails secured to said floor, said rails being spaced apart to form a channel therebetween, an adjustable hold-down secured at its upper end to a vehicle, the lower end of said hold-down being insertable at a plurality of points between said rails.

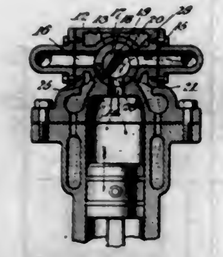
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1,693,185. METALLIC HEAD FOR BARRELS. NAJAH CARRINGTON TAYLOR, Staunton, Va. Filed Mar. 1, 1927. Serial No. 171,810. 3 Claims. (Cl. 217—76.)



1. A barrel head comprising a metal plate bent in spaced relation to its periphery to form an annular shoulder flat throughout its circumference and extending upwardly at an outward incline and leading to an upstanding circumferentially extending barrel engaging portion of an inverted U-shape in cross section and having inner and outer walls, the outer wall being of greater depth than the inner wall and having slits leading from its lower edge to provide spaced tongues, the free lower ends of the tongues being bent outwardly and upwardly to provide hooked ends, and a securing ring for said head encircling the same about the tongues and engaged by the hooked ends of the tongues when in place.

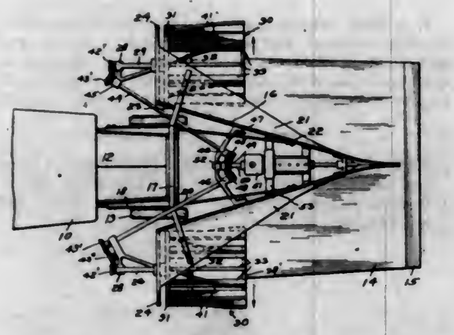
1,693,186. INTERNAL-COMBUSTION ENGINE. ROBERT J. THOMPSON, Harrisburg, Pa. Filed Jan. 13, 1927. Serial No. 160,934. 8 Claims. (Cl. 123—190.)



1. A rotary valve for internal combustion engines, including a rotary carrier shaft, a split ring surrounding the shaft and having a port for the passage of actuating fluid, and means interposed between the ends of the ring for expanding it, said means filling the space between said ends irrespective of the amount of expansion of the ring created by said means.

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1,693,187. SNOWPLOW. CLAUDE L. WALLING, Sherburne, N. Y. Filed Apr. 25, 1927. Serial No. 186,367. 9 Claims. (Cl. 37—43.)



1. In a snow plow, a scooping blade, a turning blade arranged above the scooping blade to deflect the snow or the like laterally and outwardly, a hollow rotor arranged near the outer side of the turning blade to discharge the snow or the like laterally and outwardly from the same, said hollow rotor embodying spaced blades having their longitudinal axes approximately parallel with the axis of rotation of the rotor, the forward end of the rotor being open so that the snow or the like may pass into the hollow rotor inwardly of said blades.

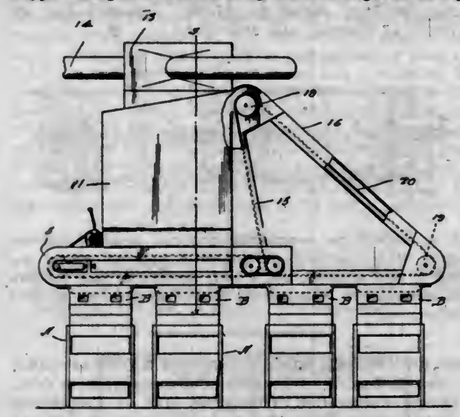
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1,693,188. COTTON DISTRIBUTOR. WILLIAM WALLACE WILLIAMS, Lubbock, Tex. Filed Nov. 17, 1926, Serial No. 148,887. Renewed Sept. 1, 1928. 1 Claim. (Cl. 19—74.)

A cotton distributor constructed for disposition between a conventional pneumatic cleaner and supply device, and a battery of gin stands including the customary feeders on the upper ends thereof, said distributor comprising a horizontally elongated belt housing, the bottom of said housing being equipped with longitudinally spaced outlet necks adapted to fit telescopically in the upper ends of said feeders, pulleys located in said housing, an endless belt trained over said pulleys, a substantially open triangular belt enclosure at one end of said housing adapted to accommodate a triple flight belt, a triple flight belt having its several flights arranged for movement in the respective angular portions of said triangular enclosure, the base of the enclosure



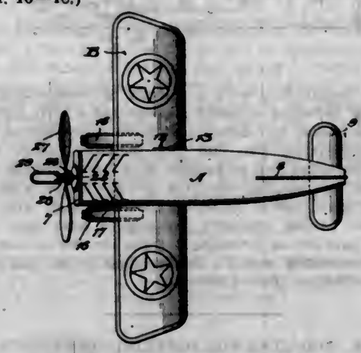
being provided with additional outlet necks for cooperation with complemental feeders, a vertically disposed storage hopper rising from said housing and abutting said triangu-



lar enclosure and in communication with said housing and enclosure, the upper end of said hopper being constructed for connection with the aforesaid cleaning device.

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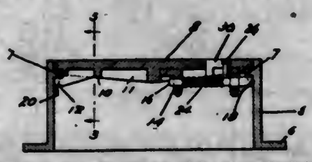
1,693,189. TOY AIRPLANE. THOMAS RAYMOND ARDEN, Baldwin, N. Y., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 18, 1927. Serial No. 213,898. 10 Claims. (Cl. 46—48.)



2. A toy airplane including a transversely arched sheet material fuselage member having pairs of slots in the opposite side walls thereof, a main wing adapted to be inserted in one pair of slots, means for releasably locking said wing to the fuselage to prevent accidental displacement from the slots, and a horizontal stabilizer member passing through the other of said slots and held therein by frictional engagement with the edges of the slots.

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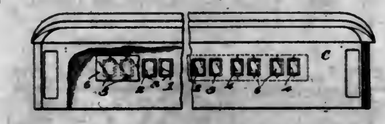
1,693,190. MANHOLE COVER. LOUIS BENEDETTI, Columbus, Ohio, assignor to Elsa D. Theobald Guenther, Columbus, Ohio. Filed Aug. 29, 1925. Serial No. 53,416. 1 Claim. (Cl. 94—35.)



A manhole construction comprising a cylindrical casing having an internal circumferential flange spaced from its upper end, said flange having subjacent reinforcing and supporting portions formed integral with said casing and flange and having cut-outs cooperating with said frame to define sockets, a cover supported upon said flange and having a depending circumferential shoulder engaging the inner end of said flange, an integral depending lug extending laterally from the bottom of said cover and engageable beneath said flange and into said sockets whereby to prevent said cover from turning, a latch bolt, a pair of bosses projecting from the bottom of said cover and having alined bearings spaced from the cover and in which said bolt is slidingly mounted in spaced relationship to the cover and in a plane below said flange, an upstanding operating handle for said latch bolt, said cover having a slot through which said handle extends, and a coil spring surrounding said latch bolt and interposed between one of said bosses and said handle for normally holding the bolt in advanced position beneath said flange.

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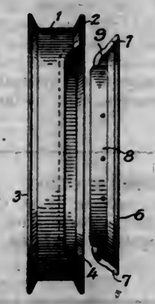
1,693,191. WINDOW CONSTRUCTION FOR TOY CARS. EARL D. BOISSELIER, Chicago, Ill., assignor to American Flyer Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1928. Serial No. 255,378. 1 Claim. (Cl. 46—48.)



A window construction for toy cars, comprising the combination of a part of a car having a window opening and a depressed seat surrounding said opening, the bottom of said seat being provided with fastening receiving clearances, a transparent element fitted to the window opening at the inside thereof, and a frame member having offset fastening lugs adapted to enter said clearances and to be bent at right angles to their normal plane to lock both the transparent member and the window frame in position.

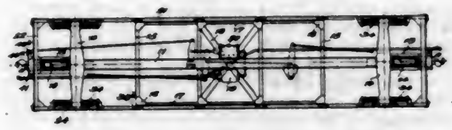
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1,693,192. AUTOMOBILE TIRE RIM. BERT D. COLGROVE, Denver, Colo. Filed July 15, 1925. Serial No. 43,816. 1 Claim. (Cl. 301—35.)



An automobile tire rim comprising a rim member provided with side flanges and having the flange at one side cut away for considerable distances around the periphery of the rim, and a removable rim section shaped to fit within the opening of the main rim and complete the flange thereof, said rim and removable section being formed to be substantially dovetail-shaped on their adjacent edges to interfit to hold the removable section against displacement radially with respect to the main rim portion, and a retaining plate carried by the removable section engaging between a tire and the body of the rim to hold the removable section against inward displacement.

1,693,193. CAR CONSTRUCTION. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 14, 1925. Serial No. 23,111. 23 Claims. (Cl. 105—454.)



1. A device of the class described comprising running gear including bolsters, a car body having side sills mounted for movement on said bolsters, the ends of the latter having sliding engagement with said sills, and resilient means for controlling the relative movement of the body in either direction, said resilient means having operative engagement with said bolsters and side sills.

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1,693,194. CAR CONSTRUCTION. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 27, 1925. Serial No. 26,267. 46 Claims. (Cl. 213—8.)



1. In a railway car, a plurality of transverse supporting members, a center draft member extending substantially the length of the car and adapted for longitudinal movement relative to said supporting members, means including friction elements for resisting relative movement between said center member and said supporting members, and couplers having lost motion connection with the opposite ends of said center draft member, the movement of the couplers relative to the center member determining the train slack and being less than the movement of the center member relative to the supporting members.

33. In a railway car structure, a long travel draft member mounted for relative longitudinal movement, means including resilient members for yieldingly resisting said longitudinal movement whereby excessive forces imparted to the draft member are gradually resisted without damage to the structure, and means for securing reduced train slack.

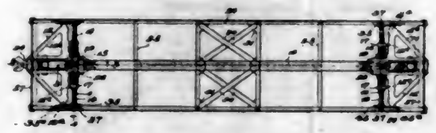
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1,693,195. CAR CONSTRUCTION. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 30, 1925. Serial No. 27,040. 16 Claims. (Cl. 213—8.)



1. A railway car comprising running gear including a center sill and draft sills secured thereto, a car body including transverse members mounted for longitudinal movement relative to said running gear, and resilient means operatively engaging said draft sills and a plurality of said transverse members for yieldingly resisting relative movement of said body in either direction.

1,693,196. CAR CONSTRUCTION. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed Apr. 30, 1925, Serial No. 27,041. Renewed Aug. 29, 1928. 17 Claims. (Cl. 105—454.)



2. A railway car comprising a center member, bolsters formed of a plurality of vertically disposed leaves secured to said member, and a body secured to said bolsters and adapted for longitudinal movement relative to said member.

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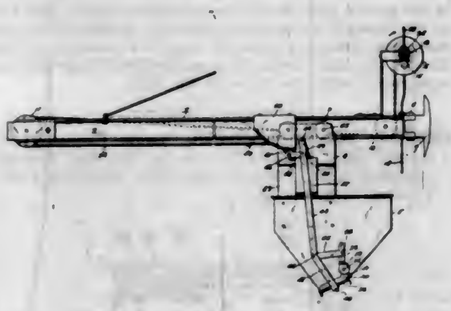
1,693,197. BRAKE MECHANISM FOR RAILWAY CARS. OTHO C. DURYEA, Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del., a Corporation of Delaware. Filed May 5, 1925. Serial No. 28,243. 20 Claims. (Cl. 188—33.)



2. In combination with a railway car comprising running gear including a center member and a body mounted for longitudinal movement relative to said running gear, brake mechanism for said car including truck brake rigging mounted for movement with said running gear, train air line sections mounted for movement with said running gear, means mounted for movement with said body and having operative engagement with said truck rigging, said means including a train air line section, and means connecting said air line sections permitting longitudinal movement therebetween.

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1,693,198. MACHINE FOR DISTRIBUTING CONCRETE. HUBERT EVERIST, Sioux City, Iowa. Filed Mar. 17, 1927. Serial No. 176,141. 13 Claims. (Cl. 214—59.)



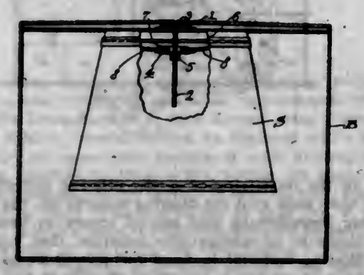
1. In a machine of the class described, the combination of a bucket provided with an outlet and having a hinged door and locking mechanism for retaining the door in its



closed position comprising a rock shaft having a crank arm and a cam actuated arm disposed at an angle, the crank arm being arranged to be carried to one side of the dead center in the closing movement of the door, means for limiting the movement of the cam actuated arm, a relatively long upper link pivoted to and depending from the crank arm, a relatively short lower link pivoted to the lower end of the long link and to the door, and an oscillatory link pivoted to the bucket and connected with the said links at the adjacent ends thereof for causing the said ends of the links to move in an arc in the proper direction for maintaining a constant pull on the door in the closing movement thereof whereby the weight of the door will retain the mechanism in its locked position.

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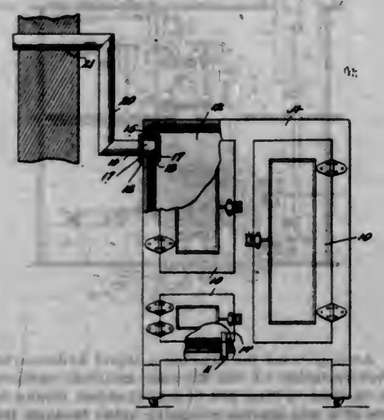
1,693,199. SHADE HOLDER FOR SHIPPING BOXES. ROBERT FAIR, Philadelphia, Pa. Filed Apr. 12, 1927. Serial No. 183,180. 1 Claim. (Cl. 206—65.)



The combination with a shipping box for holding lamp shades, of means carried by the box for suspending nested lamp shades within the box, said means including a screw extending through and supported by one wall of the box, a shade engaging member adapted to be housed in the nested shades and mounted on the screw, and means on the screw for thrusting against said member to bind the nested shades against that wall of the box from which the screw is suspended, said member including crossed separable strips for engaging one of the shades.

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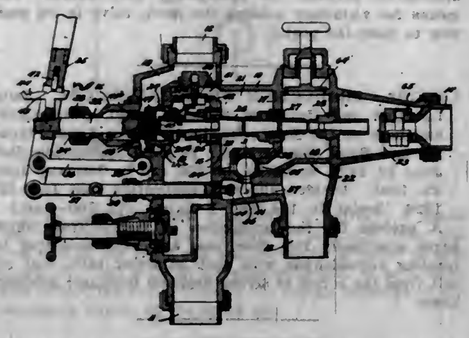
1,693,200. REFRIGERATOR. PERCY WIGHTMAN FLINT, North Charleston, S. C. Filed June 11, 1926. Serial No. 115,870. 1 Claim. (Cl. 62—96.)



An apparatus of the character described including in combination, a refrigerator of the usual type, adapted to be located within a closed building and having in addition to the usual doors only a single opening, said opening being located at the extreme upper end of the refrigerating chamber, a pipe extending from said opening to a point outside of the building housing the refrigerator, the outer end opening of said pipe being at an elevation as high as the opening in the upper end of the refrigerating chamber, means in said pipe for regulating the effective size of the opening therethrough at two separate points, said means comprising two sets of axially operated transverse shutters, said shutters having oppositely directed inclination to a horizontal plane and being interconnected for cooperative simultaneous movement.

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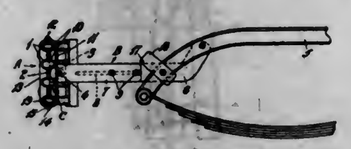
1,693,201. INJECTOR. JOAQUIN MORET GONZÁLEZ, Oriente, Cuba. Filed Mar. 31, 1926. Serial No. 98,935. 7 Claims. (Cl. 103—264.)



1. In an injector, a water supply chamber, an overflow chamber, an intermediate condensing water chamber between said supply and overflow chambers, nozzles extending into each of said chambers, an overflow discharge, and a three-way valve to provide communication between the overflow discharge, overflow chamber and auxiliary chamber.

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1,693,202. COMBINED BUMPER BAR AND CARRIER FOR MOTOR VEHICLES. CECIL HAVELOCK HENDERSON, North Melbourne, Victoria, Australia. Filed Dec. 3, 1927, Serial No. 237,528, and in Australia Dec. 10, 1926. 7 Claims. (Cl. 293—55.)



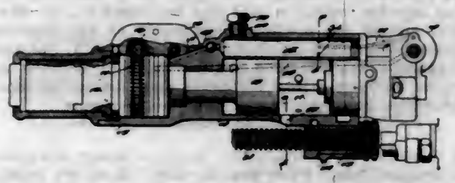
1. A combined rear bumper and carrier for motor cars consisting of a vertical bumper rack pivoted to the end of extensible brackets projecting from the chassis and adapted to be swung into horizontal position with means for fixing said rack in both positions.

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1,693,203. LUBRICATOR FOR ROCK DRILLS. AUGUST H. KATTERJOHN, Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill., a Corporation of Delaware. Filed Apr. 17, 1923. Serial No. 632,779. 4 Claims. (Cl. 121—13.)

1. In a lubricating system, the combination with a vibratory motor of a lubricant reservoir that vibrates with the motor, a motive fluid supply means for the motor, a passageway for admitting fluid to the reservoir and permitting the passage of lubricant from the reservoir, a valve chamber

with which the passageway communicates, a plurality of ports between the valve chamber and different portions of the reservoir, a valve normally closing off the com-



munication between the passageway and chamber, and means for yieldingly holding the check valve in its position to close the port.

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1,693,204. PRODUCTION OF METALDEHYDE. EMIL LÜSCHER and HEINRICH STEIGER, Basel, Switzerland, assignors to the Firm: Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Original application filed June 10, 1925, Serial No. 36,278, and in Germany June 23, 1924. Divided and this application filed July 22, 1926. Serial No. 124,288. 1 Claim. (Cl. 260—140.)

A process for the production of metaldehyde which burns practically free from soot and ash, consisting in treating acetaldehyde with such catalyzer salts that result from the action of strong acids on inorganic nitrogen bases.

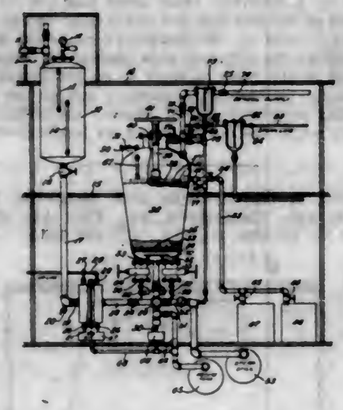
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1,693,205. NECKTIE STRETCHER. JOHN T. MCGRATH, Newark, N. J. Filed Aug. 25, 1926. Serial No. 131,441. 2 Claims. (Cl. 223—19.)



1. In a tie stretcher of the character described, a pair of elongated bars, a spring connection between the forward ends of the bars, said spring connections being in the form of a single length of spring metal, bent to provide a bell shaped loop for engagement at the ends of the bars, said length of spring metal being further bent as to provide a pair of longitudinal legs for engagement at the inner edges of said bars, means at the opposite ends of the bars for forcibly moving the same toward or away from each other upon said spring connection, said means consisting of a screw rod having reverse threads at the opposite ends thereof, lugs upon said bars having threaded openings within which the ends of the rods are arranged, and a thumb wheel disposed upon the rod intermediate the ends thereof.

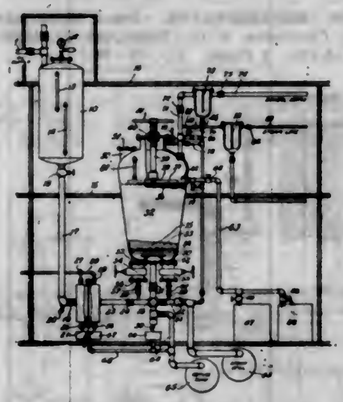
1,693,206. REVIVIFICATION OF FILTERING MATERIALS. LESLIE W. NAYLOR, Florence, Colo., assignor to Continental Oil Company, Denver, Colo., a Corporation of Maine. Filed Aug. 31, 1922. Serial No. 585,422. 2 Claims. (Cl. 252—2.)



1. In the revivifying of earthy filtering materials after they have been used for filtering mineral oil, the steps of flowing therethrough coal gas oil known as benzol until the discharge is substantially colorless, then submerging the filtering material in benzol for several hours depending upon the relative quantities of solvent and filtering material, and then removing the benzol.

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1,693,207. APPARATUS FOR REVIVIFICATION OF FILTERING MATERIALS. LESLIE W. NAYLOR, Florence, Colo., assignor to Continental Oil Company, Denver, Colo., a Corporation of Maine. Original application filed Aug. 31, 1922, Serial No. 585,422. Divided and this application filed Mar. 3, 1923. Serial No. 622,492. 7 Claims. (Cl. 210—144.)



7. An apparatus for filtering a liquid hydro-carbon and for revivification of the filtering material, comprising a filter chamber, a filter bed in said chamber, means to cause a flow of a non-aqueous cleansing agent through the filter bed in a direction reverse to the flow of the hydro-carbon, and means to supply a hot stream of water vapor through the bed, each of said means being valve controlled for successive flows.



1,693,208. CONVEYER. GUST NELSON, Vancouver, British Columbia, Canada, assignor of one-half to Frank R. Pendleton, Vancouver, Canada. Filed Dec. 2, 1926. Serial No. 152,272. 1 Claim. (Cl. 212—98.)



A conveyer comprising a traveling carriage including a beam, a pair of hangers secured to opposite ends of said beam, the lower portion of each hanger being formed to provide a block housing having an aperture at its upper extremity, an upper wall portion of each housing being hingedly mounted to form a flap having its upper edge disposed to constitute one margin of said opening, a spring arranged to exert leward pressure on said flap, a longitudinally movable latch rod slidably mounted on said beam with one edge of the latch rod overhanging a portion of the opening formed in each block housing, the said edge of the latch rod being provided with slots adapted at times to register with said openings, and a pair of load blocks provided each with a shank adapted to be passed upwardly through the opening of one of said housings between the latch rod and the hingedly mounted flap and provided with a projection adapted to hook over the latch rod to support the shank and block in elevated position, and means for shifting the latch rod to position the slots therein beneath the latch projections of said shanks and in registration with said openings to permit downward movement or withdrawal of the shanks from the housings.

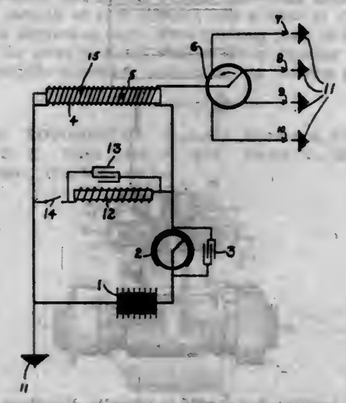
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1,693,209. WINDOW SCREEN. SAMUEL HENRY PETERSON and ADOLPH G. ANDERSON, Muskegon Heights, Mich. Filed June 29, 1927. Serial No. 202,409. 1 Claim. (Cl. 156—14.)



In a fastener of the class described comprising a screw having a head and a removable cap for the head provided with an inturned flange extending toward the shank of the screw in spaced relation from the head and a coil spring circularly arranged in the cap and interposed between the flange and said head whereby to urge the cap inwardly upon the head.

1,693,210. MEANS FOR INCREASING THE PERFORMANCE OF IGNITION SYSTEMS BY A BOOSTER DEVICE FOR IGNITION APPARATUS. EGBERT VON LEPEL, New York, N. Y. Filed July 16, 1926. Serial No. 122,964. 9 Claims. (Cl. 123—148.)



1. An ignition circuit comprising a battery; a spark coil; an inductance coil completely separated from the iron core of the spark coil and connected in shunt to said spark coil; and a timer in series with both of said coils, said inductance coil increasing the energy available in the secondary circuit of the spark coil.

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1,693,211. AUTOMOBILE RADIATOR FLOW INDICATOR. IRA A. WEAVER, Springfield, Ill. Filed May 20, 1926. Serial No. 110,525. 7 Claims. (Cl. 116—117.)



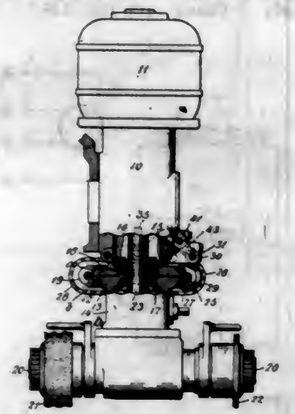
1. A cap for automobile radiator necks having, in combination, a turbine adapted to be positioned in the radiator when the cap is on the radiator neck and to be rotated by the movement of a cooling liquid therein, magnetic means rotated by said turbine, a transparent casing on said cap having a partial vacuum therein, a visible spirally-striped rotary indicator in said casing, and magnetic driving means for said indicator in said casing, whereby the rotation of said turbine revolves said indicator through said two magnetic means.

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1,693,212. STONEWORKING MACHINE. JULIUS WEGNER, New York, N. Y. Filed June 24, 1927. Serial No. 201,043. 9 Claims. (Cl. 51—166.)

1. In a stone working machine, including a head, consisting of a relatively stationary section and a movable

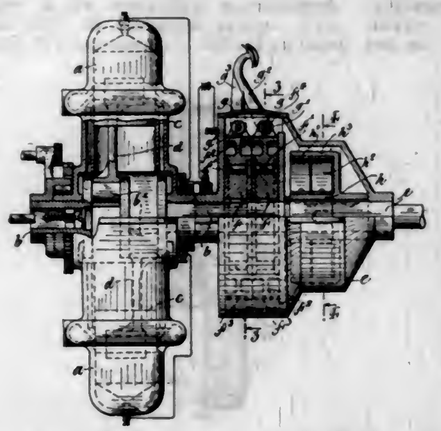
section rotatably adjustable relatively thereto and carrying a tool, the combination of means for locking said movable section in a selected position, and mechanism



having positive movements in opposite directions whereby said locking means may be adjusted to a locking position and to an inoperative unlocking position and automatically retained in the latter position at will.

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1,693,213. TRANSMISSION. CARL W. WEISS, Brooklyn, N. Y. Filed Aug. 1, 1924. Serial No. 729,477. 3 Claims. (Cl. 74—14.)

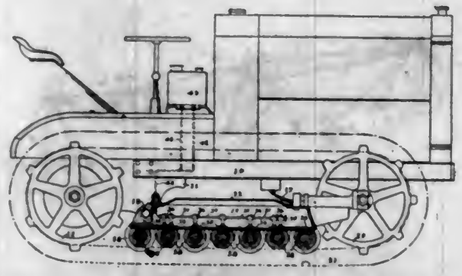


1. A transmission comprising a rotatable prime mover, having a reciprocating piston, a rotatable crank shaft, a connection between the piston of the prime mover and the crank pin of the crank shaft, and means independent of the rotation of the prime mover to prevent rotation of the crank shaft in a direction opposite to that of the prime mover and to permit rotation thereof in the same direction as that of the prime mover, whereby the torque action of the driven member is determined by the centrifugal action of the piston.

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1,693,214. LUBRICATING SYSTEM. ROLLIN H. WHITE, Cleveland Heights, Ohio. Filed July 25, 1925. Serial No. 46,183. 5 Claims. (Cl. 184—7.)

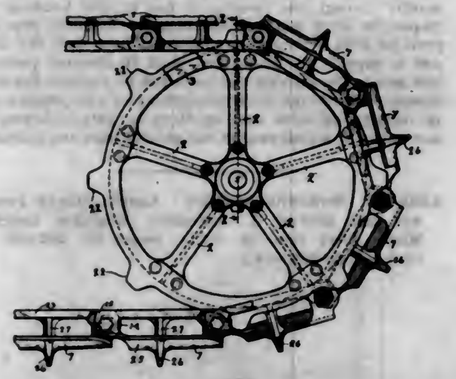
1. In a track laying tractor, the combination with a pair of laterally disposed longitudinally extending track frames, track rollers carried by the track frames, a chassis frame for the tractor disposed above the level of the track frames, a lubricant reservoir supported upon the chassis frame, a plurality of branch lubricant conduits for each track frame, each of which is adapted to conduct lubricant to a track frame roller, a main conduit for each track frame extending longitudinally thereof, said track frame



comprising a housing enclosing said main conduit and branch conduits, said track frames adapted to oscillate about an end pivot during operation of the tractor, said main conduits having an inlet portion extending laterally of the tractor frame closely adjacent and substantially parallel to the pivotal axis of the track frme, said inlet portions adapted to communicate lubricant from the reservoir to the respective main conduits for the track frames.

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1,693,215. PROPELLING MEANS FOR CRAWLING TRACTORS. ROLLIN H. WHITE, Cleveland Heights, Ohio. Filed Dec. 17, 1925. Serial No. 75,955. 2 Claims. (Cl. 74—31.)

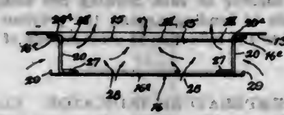


2. In an end roller wheel for a continuous track of a track laying tractor, the combination with the hub of the wheel, a pair of spaced parallel wheel rims, a plurality of thin transverse webs, integrally joining the rims to the hub, the peripheral surface of the wheel between the sprockets being substantially entirely radially opened from the radial exterior of the wheel to the spaces between the webs, and the wheel being substantially entirely laterally opened between the webs, whereby relatively large extraneous objects, such as stones, clods of earth, and the like, entering the track may be ejected by passing radially through the spaced sprocket elements.

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1,693,216. RADIATOR COVER. EDWARD C. ABT, Chicago, Ill. Filed Nov. 7, 1923. Serial No. 673,837. 11 Claims. (Cl. 189—62.)

1. In a cover for radiators having a core and an enclosing shell provided with an opening in front of the core, a movable shield arranged to extend across said opening in the shell, hinged arms connected to said shield adjacent two opposite edges thereof, and means for holding one of said arms in any position of adjustment thereof, whereby said shield may be held in various positions approximately parallel with said enclosing shell.



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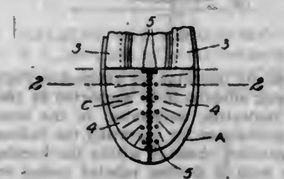


1,693,217. METHOD OF MAKING HYDROGEN CHLORIDE AND SODIUM SULPHATE. CHARLES S. BENJAMIN, East Orange, N. J., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed May 17, 1927. Serial No. 192,161. 6 Claims. (Cl. 23—155.)

2. The herein described improvement in the process of manufacturing sodium sulphate and hydrochloric acid by furnacing a mixture of sodium bisulphate and salt which consist in regulating the moisture content of the mixture to be furnaced substantially between the limits of 2 to 3.5% by weight.

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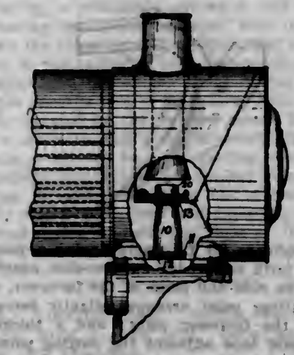
1,693,218. SHOE AND METHOD OF MAKING SAME. ALEXANDER E. BLOCK, St. Louis, Mo. Filed Feb. 4, 1926. Serial No. 85,857. 2 Claims. (Cl. 36—45.)



1. The improved method of shoe manufacture comprising the cutting of the lower margins of the upper materials to a length sufficient to fill the heel area of the shoe; securing said lower margins to form a substantially flat surface; and mounting a flat-topped heel on said flat surface.

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1,693,219. VARIABLE EXHAUST NOZZLE. JAMES G. BLUNT, Schenectady, N. Y. Filed Mar. 29, 1927. Serial No. 179,228. 9 Claims. (Cl. 230—100.)



1. An exhaust nozzle for steam engines, comprising a base member having means for attachment to the top of the exhaust pipe, and a vertical circular flange; a cam plate adapted to rotate on the base member, and embodying a cam groove, and a circular opening which receives the vertical circular flange of the base member; a discharge tip divided by partitions into a plurality of discharge orifices, and having radially extending slots opening into certain of said orifices; and a slide in each of said slots adapted to move when the cam plate is rotated to vary the cross sectional area of the contiguous orifice, and comprising a member projecting into the cam groove.

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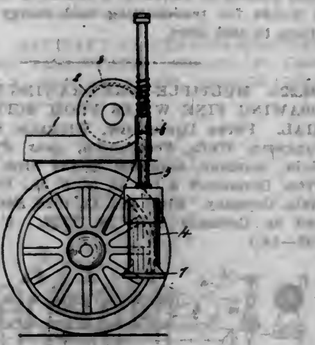
1,693,220. LOCOMOTIVE. HARRY S. BURNHAM, Schenectady, N. Y. Filed Sept. 8, 1927. Serial No. 218,160. 4 Claims. (Cl. 105—44.)



1. In a locomotive, having a middle cylinder and two side cylinders, each provided with a distribution valve chest, the combination, with a side cylinder distribution valve chest, of means for separating the currents of steam incoming thereto and to the middle cylinder chest and reversing the direction of flow of the currents to the middle cylinder chest.

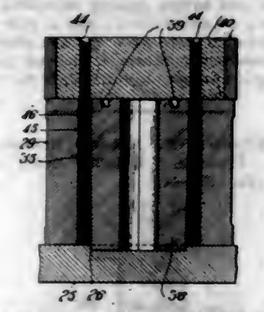
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1,693,221. MACHINE FOR RAMMING PAVING STONES AND THE LIKE. ERNST HJALMAR CARLSSON, Oscarshamn, Sweden. Filed Sept. 22, 1926, Serial No. 137,020, and in Sweden June 16, 1926. 1 Claim. (Cl. 94—49.)



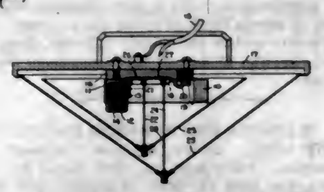
In a machine for ramming paving stones or the like, the combination with a rammer working individually on the stones and provided with upright guides, said rammer being provided at its lower end with a laterally projecting portion, forming a working surface having a ramming surface sufficient to enable it to cover the stone to be rammed and at least one of the stones which has already been rammed, of a flexible lifting member one end of which is attached to the rammer and an oscillating element to which the other end of the flexible lifting member is attached.

1,693,222. MOLDING APPARATUS. WILLIAM H. CROFT and ROBERT J. SHOEMAKER, Chicago, Ill., assignors to Magnus Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 27, 1926. Serial No. 111,993. 10 Claims. (Cl. 22—126.)



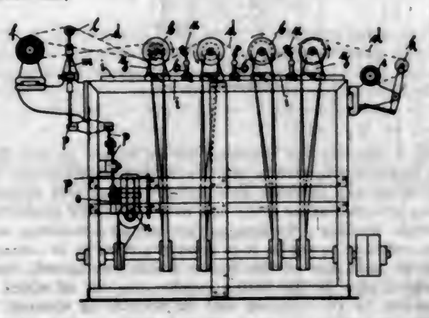
1. In molding apparatus the combination of a metal base, exterior mold members secured together and mounted on said base, a plurality of separate metal core members, engageable to form a single core, and a sand cope on said mold and core members.

1,693,223. SOUND REPRODUCER. HAROLD I. DANZIGER and CHARLES LUCAS WACHTER, New York, N. Y. Filed Jan. 4, 1927. Serial No. 158,848. 10 Claims. (Cl. 181—31.)



1. A sound reproducer comprising a plurality of vibratable discs, said discs being constructed to have differing normal periods of vibration, a source of vibratory energy, and means for transmitting said energy in equal proportions to said discs.

1,693,224. MULTIPLE-WIRE-DRAWING MACHINE FOR DRAWING FINE WIRES FROM SUITABLE MATERIAL. PETER DARMSTADT, WILHELM STEGMANN, and VALENTIN WEIL, Fechenheim, near Frankfort-on-the-Main, Germany, assignors to the Firm Drahtindustrie Peter Darmstadt & Co. G. m. b. H., Frankfort-on-the-Main, Germany. Filed Jan. 11, 1928, Serial No. 245,834, and in Germany Feb. 28, 1927. 6 Claims. (Cl. 205—14.)



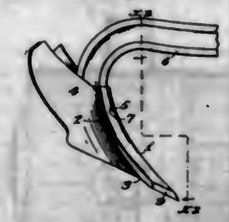
1. In a multiple wire drawing machine for drawing fine wires, the combination, with a plurality of dies, of a drawing roll between each pair of said dies, the arrangement being such that the wire to be drawn bears against each of said drawing rolls at an angle of less than 180°, the angle of bending on each drawing roll being smaller than the angle of bending around the previous drawing roll according to the reduction in cross-section of the wire.

1,693,225. TEMPERATURE INDICATOR. CLAYTON A. DUNHAM, Glencoe, Ill., assignor, by mesne assignments, to C. A. Dunham Company, Marshalltown, Iowa, a Corporation of Iowa. Filed May 1, 1926. Serial No. 106,028. 4 Claims. (Cl. 116—114.)



1. A temperature indicator for automobile engines, comprising a housing adapted to be supported by the radiator filling spout, indicating mechanism in the housing, and thermostatic mechanism for operating the indicator, comprising an expansible chamber within the housing, a well for a volatile fluid, a flexible tubular casing suspending the well from the housing so that the well will be immersed within the liquid in the radiator, and a flexible tube sealed to the expansible chamber and the well to form a fluid passage therebetween, the tube being housed within and protected from the liquid by the tubular casing.

1,693,226. FURROWER OVERSHOE. JACOB V. DYER, Bell, Calif., assignor to Dyrr Mfg. Co., Bell, Calif., a Corporation of California. Filed Mar. 18, 1924. Serial No. 698,888. 2 Claims. (Cl. 97—125.)



1. The appliance for furrowers having a point and a nose as set forth comprising an over-shoe adapted to be fitted over the nose and point of the furrower, said shoe having a cutting point arranged slightly below and in advance of the furrower point; and a thickened end portion to said shoe adjacent the cutting point thereof engaging the furrower point and adapted to be drawn out into a point when the cutting edge of said shoe is worn away.

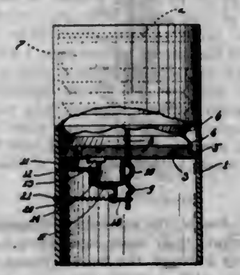


1,693,227. BRICK-COURSE GAUGE. JOHN R. ELLIS, Memphis, Tenn. Filed Apr. 24, 1926, Serial No. 104,322. Renewed June 15, 1928. 3 Claims. (Cl. 33—111.)



1. A gauge, comprising an elongated member having spaced longitudinal corrugations, and having holes therethrough in corresponding longitudinal rows, the holes in any one row being equally spaced, and the spacing between holes in one row varying from that in any other row.

1,693,228. TALKING TOY MECHANISM. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated, a Corporation of Delaware. Filed Mar. 21, 1923. Serial No. 626,498. 4 Claims. (Cl. 46—46.)



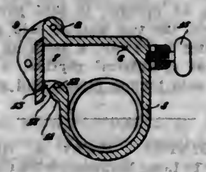
1. A device of the class described having in combination, a casing, a collapsible bellows in said casing, said bellows having two heads, one fixed with respect to the casing and the other being a weighty head movable back and forth in the casing to collapse and distend the bellows by gravity, a reed in the casing carried by the fixed head at the opposite side of the bellows from the movable head and operated by the bellows, means in the casing having an orifice through which the sound from the reed may escape, a pivoted door for opening and closing said orifice, resilient means normally tending to hold said door in position to close said orifice, and a control member carried by the weighty head and extending through the bellows and acting to open said door as the bellows is operated.

1,693,229. TOOTHBRUSH. VICTOR FELMAR, Taylorville, Ill. Filed Aug. 18, 1927. Serial No. 213,878. 2 Claims. (Cl. 15—167.)

1. As an article of manufacture, a toothbrush comprising a head, an arcuate extension integrally projecting from the head, spaced ears integrally depending from said extension, a roller disposed between and journalled for rotation upon the ears, and a circumferential set of radially projecting bristle-tufts carried by the roller and rotatable in the longitudinal plane of the head.



1,693,230. ROAD-OIL-SPRAYING NOZZLE. SIDNEY SAMUEL GIBLING, Saanich, British Columbia, Canada. Filed May 15, 1928, Serial No. 277,898, and in Canada Apr. 8, 1927. 2 Claims. (Cl. 299—105.)



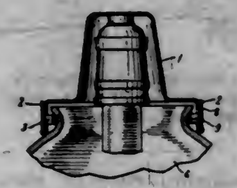
2. A nozzle for a road spraying machine comprising, a body member of the nature of a pipe coupling, the body of the said member being extended on one side and intermediately of the ends to form a projection of the nature of an offset elbow the axis of the orifice and body of which is right angular to the axis of the said coupling-like member, a relatively large orifice in the end of the said projection, the said offset being such that the inner edge of the said orifice is approximately co-incident with the peripheral line of the pipe used in connection with the said coupling-like member, a cover hingeable on the said projection and adapted to partially close the said orifice, means for clamping the said cover to the said member, the rim of the said orifice being elongated to an approximately egg-shaped form, the smaller part of the said elongation being cut away to form a facet which is angular to the face of the said rim and to the inner face of the said cover when closed, a curved channel in said angular facet communicating with said orifice.

1,693,231. SANITARY DISPENSING CONTAINER FOR DINING TABLEWARE. WILLIAM R. GRUBER, New York, N. Y. Filed Feb. 5, 1927. Serial No. 166,157. 3 Claims. (Cl. 312—42.)



1. A dispensing container comprising a casing having an outwardly inclined front wall containing a series of transverse openings arranged in tiered relation, a plurality of vertical partitions forming compartments parallel with the upper front portion of the casing, said partitions being curved outwardly towards the front at their lower portions to register with the transverse openings, and means above and below the openings at the front edges of the partitions to normally prevent the discharge of articles from said compartments.

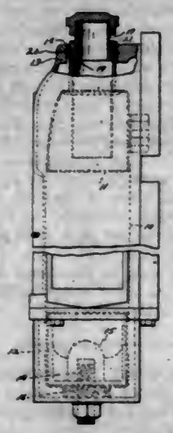
1,693,232. SCREWLESS HOLDER FOR LIGHTING FIXTURES. EDWIN F. GUTH, St. Louis, Mo. Filed Apr. 12, 1927. Serial No. 183,056. 2 Claims. (Cl. 240—132.)



1. A holder for lighting globes, comprising a canopy having a vertical cylindrical portion, a plurality of inwardly extending arcuate tongues struck out of said portion, there being an opening in said portion equidistant from said tongues, the top wall of said portion adjacent said opening being cut away, a securing ring which fits over said vertical cylindrical portion, a similar tongue formed thereon, said tongue fitting said opening.

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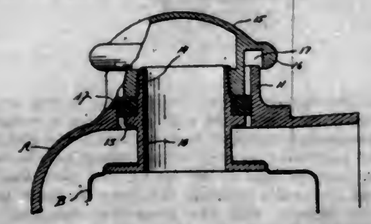
1,693,233. RADIATOR. HARRY A. HIGGINS, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1925. Serial No. 55,104. 5 Claims. (Cl. 180—68.)



1. In a radiator, a casing, a core provided with a filler neck engaging an opening formed in said casing, an expansible member carried by said filler neck and disposed radially between said filler neck and casing and means adjustable on said filler neck for expanding said member radially.
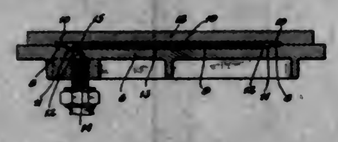
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1,693,234. RADIATOR. HARRY A. HIGGINS, Detroit, Mich. Filed Mar. 8, 1926, Serial No. 93,334. Renewed Oct. 11, 1928. 6 Claims. (Cl. 180—69.)



1. A radiator comprising a casing, an element within the casing provided with a filler neck extending within an opening in the casing and spaced from the inner wall of said opening, a yieldable member forming a connection between the filler neck and casing to absorb relative vibrations therebetween, and a closure cap threadedly engaging said filler neck and acting on said yielding member for causing disortion of said member.

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1,693,235. METHOD OF MOUNTING PRESSURE-GAUGE DIAPHRAGMS. EMIL A. ILEMAN, New York, N. Y., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y., a Corporation of Delaware. Filed May 21, 1926. Serial No. 110,599. 8 Claims. (Cl. 29—157.)



1. The method of mounting pressure gauge diaphragms which consists in providing a base member, securing a sheet metal diaphragm to the base member around the periphery of the diaphragm, the base member having a circular groove therein inside the periphery of the diaphragm, and forcing the metal of the diaphragm into said groove to take out irregularities in the diaphragm.

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1,693,236. HEDDLE FRAME. JOHN JACOB KAUFMANN, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,640. 6 Claims. (Cl. 139—92.)



1. In a heddle frame, the means for supporting the heddle bars intermediate their ends, comprising a bolt member extending entirely through the heddle frame rail and adjustably mounted with respect thereto, a plate member carried at the inner end of the bolt member having recesses adapted to receive and support the heddle supporting bars, a lock member slidably mounted upon said plate member and having overhanging lip portions adapted to engage the heddle supporting bars and retain the same in the recesses in the plate member, and a spring mounted on the bolt member adapted to impel the lock member to the locking position.

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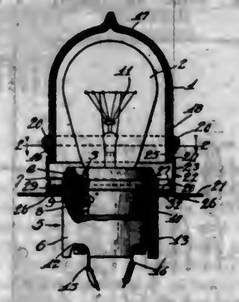
1,693,237. PROCESS FOR RECOVERY OF SODIUM SALTS FROM BRINES. WALTER A. KUHNERT, Los Angeles, Calif. Filed Mar. 29, 1927. Serial No. 179,400. 9 Claims. (Cl. 23—39.)

1. The process for recovery of carbonate compounds of sodium from brines containing the same, which comprises first carbonating such a brine by contact with carbon dioxide bearing gas, while maintaining the rate of supply of carbon dioxide to the brine sufficiently low to maintain the temperature below 45° C. and cause precipitation to occur principally in the form of coarsely crystalline sodium sesquicarbonate, until the concentration of sodium carbonate in the brine has been materially reduced, then discontinuing the carbonating operation and separating the resulting precipitate from the brine, subsequently further carbonating such brine by contact with carbon dioxide bearing gas to cause further precipitation to occur principally in the form of sodium bicarbonate, and then separating the resulting further precipitate from the brine.



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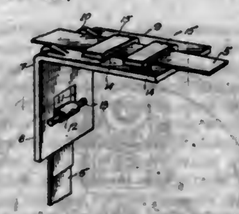
1,693,238. SUPPORT FOR LAMPS. WILLIAM L. LAIB, Oak Park, Ill. Filed Apr. 12, 1926. Serial No. 101,599. 4 Claims. (Cl. 240—128.)



1. In a device of the class described, the combination of a glass lamp hood adapted to enclose a lamp bulb, an outer annular metallic hood-engaging member in supporting engagement with said hood, securing flanges on said metallic hood-engaging member, an inner annular plate having peripheral marginal portions adapted to detachably engage said securing flanges on said outer annular hood-engaging member, said inner annular plate having an opening therein for receiving a lamp socket, a lamp socket extending into said opening, a lamp-supporting plate interposed between said lamp socket and said inner annular plate and adapted to form a sign board of an electric sign, and securing means on said socket and in securing engagement with said inner annular plate, said securing means comprising a peripherally shouldered screw-threaded sleeve having screw-threaded connection with the lamp socket and extending through an opening in said lamp-supporting plate and through and in clamping engagement with said inner annular plate and adapted to secure said socket and said inner annular plate to opposite sides of said intermediate lamp-supporting plate.

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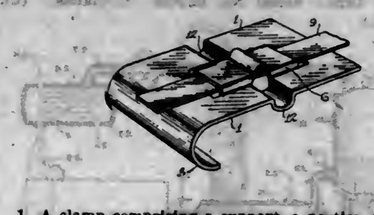
1,693,239. FORM CLAMP. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 9, 1928. Serial No. 268,658. 1 Claim. (Cl. 24—19.)



A device of the class described comprising a support having a pair of bearing portions disposed transversely of each other for engaging adjacent sides of a structural shape, one of said portions having an opening for receiving a bight in one end of a tie element, a separate pin adapted to extend through the bight for engaging said one portion on respectively opposite sides of said opening, and a member struck out from the other of said portions to provide a recess and an overlying bridge element, said bridge element and last named portion defining a passage for the other end of said tie, said bridge element being bendable to kink said tie element into said recess.

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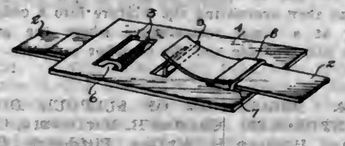
1,693,240. FORM CLAMP. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 12, 1928. Serial No. 269,589. 9 Claims. (Cl. 24—19.)



1. A clamp comprising a support, a portion of said support forming a guideway for a tie element, said support having a recess adjacent said guideway, and a pair of bearing portions on respectively opposite sides of said recess forming a keyway for a wedge adapted to bend the tie element into said recess.

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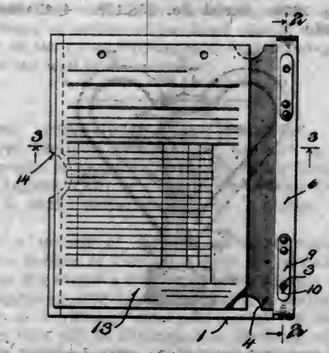
1,693,241. FORM CLAMP. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 16, 1928. Serial No. 270,498. 4 Claims. (Cl. 24—23.)



1. A device of the class described comprising a flexible tie element, a sheet metal support mounted on one end of said tie and having a guideway for slidably receiving the other end of said tie, a bearing part struck out from said support, and a detachable tool arranged to grip said other end of said tie and to be fulcrumed on said bearing part for pulling said tie relative to said support.

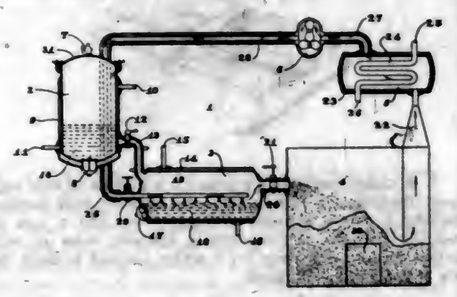
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1,693,242. LOOSE-LEAF BINDER. OSCAR LOEWENBACH, Milwaukee, Wis. Filed July 14, 1927. Serial No. 205,619. 5 Claims. (Cl. 129—12.)



1. A loose leaf binder comprising a back having projecting posts extending therefrom adapted to receive loose leaves, and a locking bar apertured for the reception of said posts and having a pair of upwardly extending slanting spring fingers apertured for the reception of said posts, said spring fingers binding said posts against the walls of the apertures in said bar and being releasable by causing relative motion between the ends of the spring fingers and said bar.

1,693,243. METHOD AND APPARATUS FOR PURIFYING CAMPHOR AND SIMILAR VOLATILE SUBSTANCES. EVARTS G. LOOMIS, Newark, N. J. Filed Aug. 27, 1925. Serial No. 52,953. 6 Claims. (Cl. 260—133.)



1. The process of purifying camphor and similar substances which consists in reducing the camphor to a liquid form, forcing a current of gas below the boiling point of the camphor upon the surface of the same and thereby causing the gas to become saturated with the camphor vapor and then evacuating the mixture into a condensing chamber at a lower temperature where the gas and camphor will separate and the camphor condense.

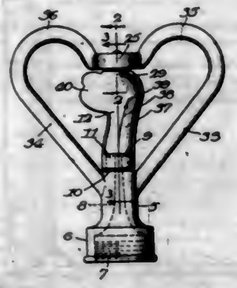
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1,693,244. PRODUCTION OF SULPHUR DIOXIDE AND HYDROGEN. CHARLES H. MACDOWELL, Chicago, Ill., and HERBERT H. MEYERS, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 21, 1927. Serial No. 234,902. 3 Claims. (Cl. 23—210.)

1. The process which consists of heating a mixture of sulphur-vapor and steam in the presence of iron-oxide as a catalyst at a temperature and for a period of time sufficient to produce a gaseous mixture containing sulphur-dioxide and hydrogen and recovering said sulphur-dioxide and hydrogen individually from such mixture.

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1,693,245. SPRINKLER HEAD. HARRY E. MENG, Oak Park, Ill., assignor to W. D. Allen Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 31, 1926. Serial No. 158,138. 4 Claims. (Cl. 299—126.)



1. In a sprinkler head of the class described, the combination of a nozzle, a spraying member adapted to be rotated by pressure of water discharged from said nozzle, means for rotatably supporting said spraying member in operative position relative to said nozzle, said means comprising a bearing portion on the upper end of said nozzle, a bearing member on the lower end of said spraying member for engaging said nozzle bearing portion, combination radial and end thrust ball bearing anti-friction means for the upper end of said spraying member, and means for mounting said ball bearing anti-friction means comprising a cup-shaped member having an axial aperture in its bottom, means integral with said nozzle for supporting said cup-shaped member in fixed position relative to said nozzle, said cup-shaped member being adapted to receive said ball bearing anti-friction means and said spraying member being connected to a part of said ball bearing antifriction means through said axial aperture.

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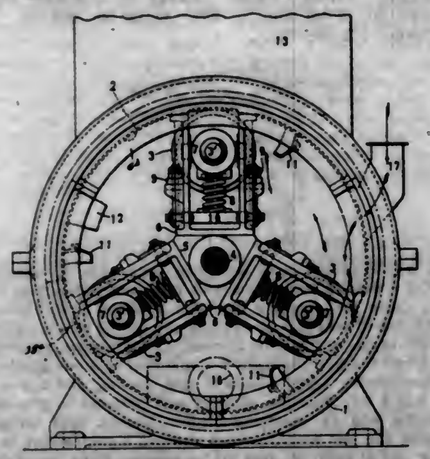
1,693,246. DISPLAY CARD. FREDERICK H. MIX, Brooklyn, N. Y., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 1, 1926. Serial No. 138,847. 4 Claims. (Cl. 206—79.)



3. A display card for holding articles consisting of a tubular part and a solid part comprising, a card having therein a series of apertures, each aperture consisting of a space shaped to receive the solid part of the article and a space to receive the tubular part of the article, said last mentioned space having a tongue projecting therein and lying parallel with the inner face of the parallel walls of the article and adapted to engage said walls to a point adjacent to the base of the space receiving the solid part of the article.

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1,693,247. RING MILL. JOSEPH MOLZ, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 6, 1923, Serial No. 649,813, and in Germany July 10, 1922. 12 Claims. (Cl. 83—9.)



1. In a pulverising mill, a stationary ring, a rotatable shaft, a frame carried thereby, rollers journalled in said frame and bearing against the ring, annular flanges carried by said frame at the ends of said rollers, said ring having an opening through the grinding surface thereof, and means for admitting material to be pulverized therethrough.

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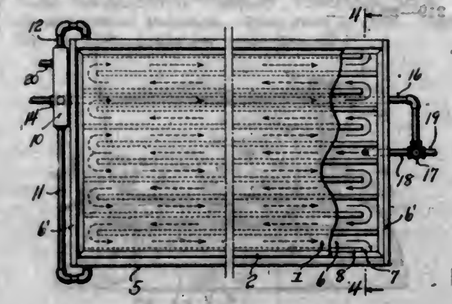
1,693,248. RESERVOIR COMB. FRANK H. NEWTON, Los Angeles, Calif. Filed Mar. 20, 1928. Serial No. 263,109. 1 Claim. (Cl. 132—13.)



A reservoir comb, including in combination, a handle, housing removably mounted on the handle, a reservoir removably mounted on the housing, a heating element removably mounted in the reservoir, and a plurality of comb-teeth mounted on the reservoir, each tooth being provided with a duct passing longitudinally therethrough, and means for controlling the flow of liquid from the reservoir through the ducts, said means comprising a cylindrical valve rotatably positioned at the inner ends of the teeth and adjacent the reservoir, the said cylindrical valve being provided with a plurality of transverse openings adapted to be rotated into and out of alignment with the ducts in the comb-teeth.

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1,693,249. VAT. CHARLES PAULY, Port Washington, Wis. Filed Oct. 9, 1925. Serial No. 61,472. 1 Claim. (Cl. 257—208.)



A vat comprising an outer jacket formed of wood and having a plurality of longitudinally extending channels in its side and bottom walls, said channels being open towards the interior of said jacket and communicating with each other at alternately opposite ends and forming between themselves inwardly projecting tongues, said side walls being slanted outwardly, and a sheet metal pan having slanting side walls and a flat bottom and adapted for positioning within said jacket, said bottom resting directly upon the bottom tongues formed between the bottom channels, and said sides wedging against the side tongues formed by the side channels, said jacket having inlet and outlet apertures communicating with said channels at opposite ends of the vat.

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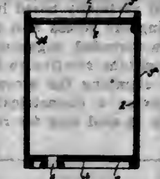
1,693,250. SEALED PACKAGE AND CLOSURE CAP THEREFOR. LOUIS P. PIARSOLI, Jr., Connellsville, Pa., assignor to Capstan Glass Company, Connellsville, Pa., a Corporation of Delaware. Filed July 15, 1926. Serial No. 122,517. 12 Claims. (Cl. 215—46.)

1. A sealed package, comprising a container, a glass closure cap having a laterally extending peripheral flange, and an annular shoulder beneath said flange adapted to seal a gasket, said flange having a continuous periphery with a recess on its under side to form a guideway leading to the inner edge of the gasket at an angle to the shoulder, whereby an instrument will be guided to the inner edge of the gasket between said shoulder and said gasket to break the vacuum in said container.



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1,693,251. CONTAINER. PAUL PICK, New York, N. Y., assignor to The Kalbfleisch Corporation of New York, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1925, Serial No. 16,069, and in Germany Mar. 17, 1924. 6 Claims. (Cl. 206—2.)



1. A closed container comprising a closed-in metallic frame provided with an outwardly-presented neck and an inner lining of acid-proof hardened plastic material, that portion of the lining withing said neck forming an orifice through the wall of the container.

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1,693,252. CERAMIC-GLAZING PROCESS. WILLIS O. PROUTY, Hermosa Beach, Calif., assignor, by mesne assignments, to American Encaustic Tiling Company, Ltd., Los Angeles, Calif., a Corporation of New York. Filed May 6, 1925. Serial No. 28,500. 5 Claims. (Cl. 91—72.)

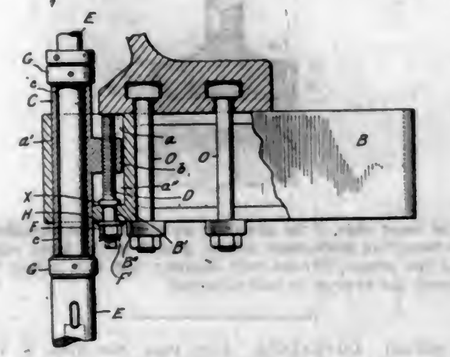
5. In a process of forming glazed ceramic products having a surface of variegated color the operation of applying to the bisque a coating of glaze mixture of selected color, applying over said first coating a coating of glaze mixture of a different color and containing an insoluble material that will be eliminated in the firing of the glaze, spraying a third coating of glaze mixture over the second coating and firing the product so prepared.

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1,693,253. MULTIPLE-SPINDLE DRILLING-MACHINE ARM. AUSTIN A. RIDDELL, Jackson, Mich., assignor to Fox Machine Company, Jackson, Mich., a Corporation of Michigan. Filed June 28, 1927. Serial No. 202,063. 1 Claim. (Cl. 77—24.)

In combination in a multiple spindle drilling machine, an arm having means for connecting it to the head

of the machine, said arm being connected with the head and having a vertically disposed cylindrical bore therethrough adjacent its outer end and a vertically disposed rectangular recess adjoining said cylindrical bore and communicating therewith at one side, said arm having a horizontally disposed flange which extends from the lower end thereof to form a bottom for said rectangular recess, said flange being vertically bored to align and communicate with the said rectangular recess, a vertically disposed screw rotatably mounted in the bore in



the flange and being disposed in said recess, said screw having an integral annular enlargement engaging the upper surface of said flange, a tool spindle supporting sleeve mounted in said cylindrical bore and having an integral horizontally disposed vertically bored lug extending laterally into said rectangular recess and adapted to receive said screw in screw-threaded engagement to adjust the sleeve to various positions relative to the arm, a nut below said flange for clamping the screw in adjusted position, said screw having a diametrical hole through its end and a cotter pin in said hole for retaining the nut in the screw.

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1,693,254. WATER HEATER. JAMES M. ROWLEY, Buffalo, N. Y. Filed Apr. 5, 1927. Serial No. 181,184. 2 Claims. (Cl. 122—208.)

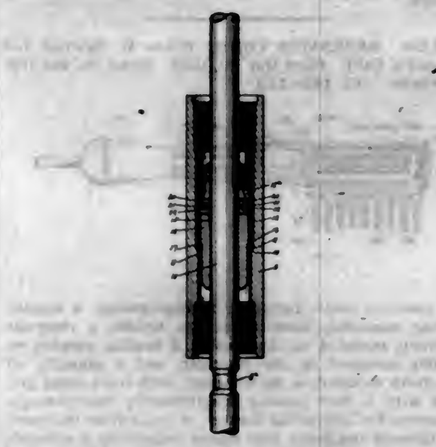


1. A water heater comprising a body provided on its underside with a water conducting channel having an inlet at one end and an expansion chamber at the other end, said channel having an outlet, a thin metal diaphragm secured to said body so as to close the underside of said channel and expansion chamber and adapted to be subjected to heat for heating the water in said conduit, and a drain cock opening into said expansion chamber under said outlet.

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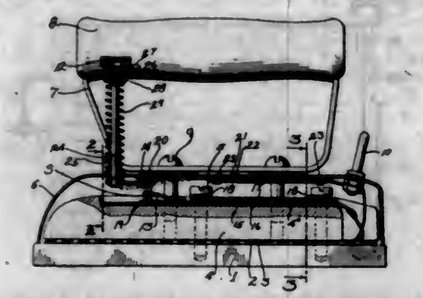
1,693,255. QUICK-ACTION RETENTION VALVE FOR WELLS. BERNARD H. SCOTT, Glendale, and SAMUEL E. ROSS, Long Beach, Calif., assignors to Scott-Ross and Company, Los Angeles, Calif., a Corporation of Delaware. Filed Oct. 6, 1926, Serial No. 139,848. Renewed Oct. 9, 1928. 8 Claims. (Cl. 103—202.)

1. A retention valve for wells comprising in combination with a well tube, plunger rod and plunger valve, a tubular member connected into said well tube, an annular valve seat therein, a valve member having a sliding fit on a portion of said plunger rod within said tubular member and having an annular shoulder adapted to seat upon said annular valve seat to close the opening therethrough, movable means carried as a part thereof for limiting the upward movement of said valve member away from said seat whereby to permit flow through said annular valve seat, and means for releasing said movable means on said valve member whereby it can be lifted out of said tubular member with said plunger rod.



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1,693,256. AUTOMATIC CURRENT-CUT-OUT ELECTRIC FLATIRON. JOHN J. SHEA, San Diego, Calif. Filed Jan. 29, 1926. Serial No. 84,584. 3 Claims. (Cl. 219—25.)



2. In an electric flatiron, a casing, a switch member positioned within said casing at the normally forward end thereof and connecting the flatiron with a source of electrical energy, another switch member positioned within said casing at the normally forward end thereof and in spaced relation with said first mentioned switch member, and a resiliently mounted reciprocating plunger supported by said casing and connected at its one end to said last mentioned switch member and provided at its opposite end with a knob positioned contiguous to the normally forward end of the handle of said flatiron whereby the same may be manipulated by a finger of the hand operating the flatiron for depressing the same when the iron is manipulated for connecting said switch members.

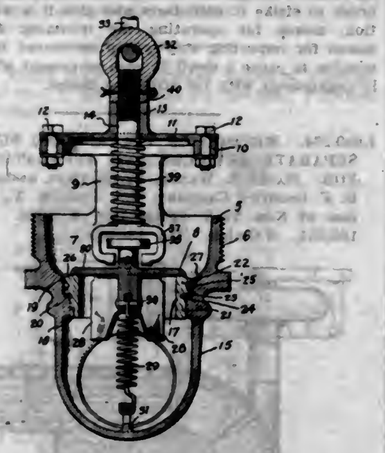
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1,693,257. TANK VALVE. PAUL S. SHIELD, Cincinnati, Ohio, assignor to Augustine Davis, Jr., Covington, Ky. Filed Apr. 25, 1924. Serial No. 708,850. 14 Claims. (Cl. 137—21.)

1. In a tank having a screw-threaded outlet collar, a valve for closing said outlet comprising a valve disk, a



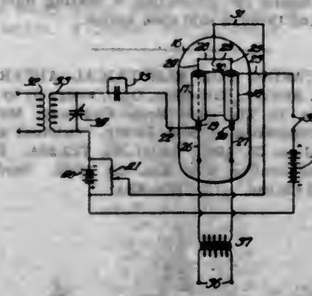
body provided with a screw-threaded portion for engagement with the thread of said collar, and a valve-seat annulus supported at its lower portion by a region of said



body offset from the zone of potential distortion which includes the screw joint between the body and the collar, said annulus extending upward free from the wall of the body and carrying the seat for the valve disk.

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1,693,258. MEANS FOR ELIMINATING FLUCTUATIONS IN ELECTRIC CURRENT. CHARLES SPARTH, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass., a Corporation of Delaware. Filed June 7, 1926, Serial No. 114,172. 3 Claims. (Cl. 250—27.)

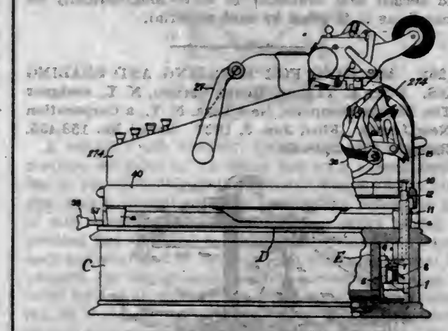


1. An electron discharge device having a casing, a filament circuit therein, and a thermo-electric couple within said casing and associated with said filament circuit adapted to maintain at an average potential a given point of said filament circuit which except for said thermo-electric couple would not represent the point of average potential of said filament circuit.

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1,693,259. CASH REGISTER. OSCAR J. SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 15, 1921. Serial No. 492,244. 3 Claims. (Cl. 235—22.)

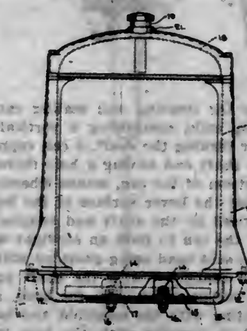
1. The combination of a casing, a cash drawer in the casing, a hook on the cash drawer, a lever in said casing having a stud arranged to engage said hook, a spring tending to move the lever to advance the drawer in said casing and disengage the stud from the hook, a registering machine on said casing, a primary latch for said lever, said latch being releasable by said registering machine, whereupon said spring partially opens the drawer, a secondary



latch located in said casing and adapted to restrain said lever against the influence of said spring, and manually operable means for disengaging the secondary latch from said lever.

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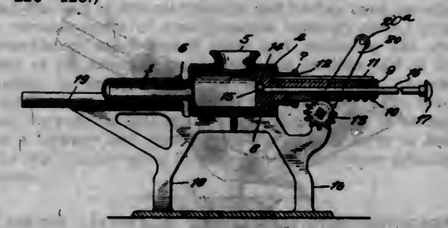
1,693,260. RADIATOR. ARTHUR L. SWANK, Detroit, Mich., assignor to Long Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 29, 1924. Serial No. 758,684. 3 Claims. (Cl. 180—68.)



1. A radiator comprising a casing, a core supported by the casing and capable of relative lateral movement, said core provided with a filler neck and a yieldable member spacing the filler neck from the casing.

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1,693,261. APPARATUS FOR FILLING FRAGILE CONTAINERS. ERNEST J. SWEETLAND, Hazleton, Pa. Filed July 17, 1924. Serial No. 726,499. 4 Claims. (Cl. 226—125.)

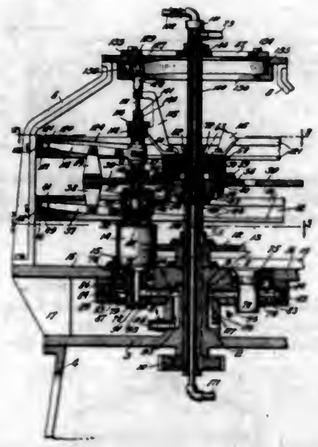


1. In an apparatus for filling edible containers of the type described, a casing having a charging opening therefor, an elongated nozzle a piston for forcing substantially solid ice cream in said casing into the nozzle, means to operate said piston, a secondary piston adapted to enter

said nozzle and force the material therefrom, means whereby said secondary piston may be manually operated and means to support an elongated container in position to receive the material as it is forced from said nozzle, and to permit said container to move longitudinally on said nozzle as it is filled by said material.

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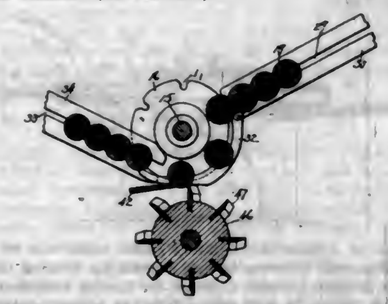
1,693,262. MACHINE FOR TREATING AND SEALING CANS. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 3, 1927. Serial No. 158,455. 3 Claims. (Cl. 226—68.)



1. A machine for treating and sealing cans having a hole in their top ends, comprising a vertically arranged shaft, means for turning the shaft, a can supporting plate attached to the shaft and having a hole therein affording access to the bottom of the can, means whereby a vacuum is created against the lower surface of the bottom of the can, a head carried by the shaft and adapted to contact with the top of the can to form an air-tight space around the hole therein, said head being provided with a passageway, a manifold connected with the shaft and having a hole leading to the passageway in the head, a stationary member cooperating with the manifold and having a hole therein adapted to register with the hole in the manifold, said member being adapted to be connected with an air exhausting means, and means for inserting a cap in the hole in the can and sealing it therein.

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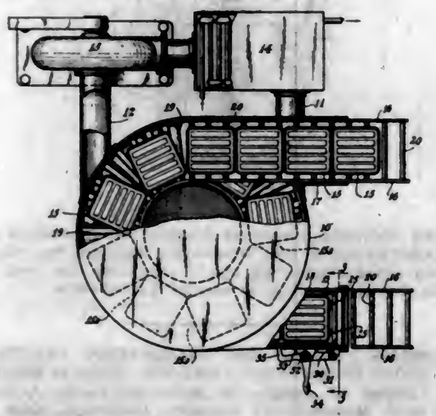
1,693,263. TRIMMER. ANTON VAN VEEN, Hartford, and HORACE H. FITZGERALD, Berlin, Conn., assignors to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Oct. 15, 1923. Serial No. 668,549. 11 Claims. (Cl. 300—17.)



1. A trimming machine for cylindrical brushes including a feed member movably mounted and having means to engage said brushes and move them forward while permitting free rotation thereof, a trimming device comprising a number of cutters with their cutting edges spaced apart and movable in the path of the periphery of said brush to strike it with force and give it a whirling motion, means for operating the trimming device, and means for imparting step-by-step movement to said feed member to cause a dwell in such movement with a brush in engagement with the trimming device.

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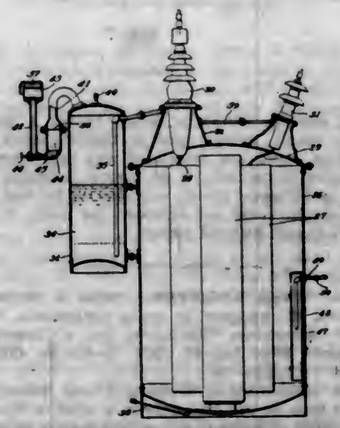
1,693,264. METHOD OF VULCANIZING SUCCESSIVE SEPARATE ARTICLES AND APPARATUS THEREFOR. HARRY E. WANER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Dec. 3, 1926. Serial No. 152,351. 6 Claims. (Cl. 18—6.)



3. Vulcanizing apparatus comprising means for effecting movement of successive, separate articles in procession through a helical path with open spaces in the procession and means for circulating a heating fluid about the articles and through said open spaces.

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1,693,265. CASING FOR ELECTRICAL APPARATUS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Original application filed June 25, 1924, Serial No. 722,204. Divided and this application filed Nov. 20, 1925. Serial No. 70,220. 12 Claims. (Cl. 220—85.)



1. A housing for electrical apparatus having two conductor bushings extending through the top thereof, supports for said bushings providing chambers surrounding the interior portions thereof, means for connecting said chambers to permit the passage of air from one to the other, a vent communicating with the top of one of said chambers, and a liquid seal for said vent.

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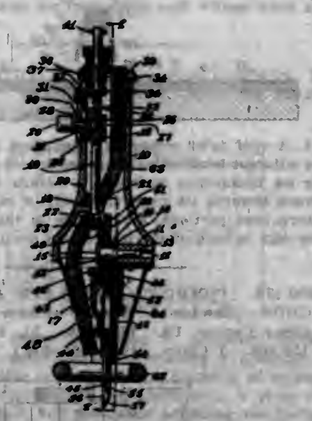
1,693,266. SEED BAG. ROSECRANS BALDWIN, Chicago, Ill. Filed Nov. 1, 1927. Serial No. 230,269. 7 Claims. (Cl. 139—383.)




1. A textile fabric seed bag formed of loosely woven toweling material, the material along the sides of the bag being provided with a selvage border approximately one inch in width and having a line of stitching therethrough forming the bag seam.

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1,693,267. RUG-MAKING MACHINE. JOHN E. BERGLIND, South Acton, Mass. Filed Mar. 20, 1926. Serial No. 96,341. 2 Claims. (Cl. 112—80.)



1. In a rug making machine, the combination of a base, a needle and a loop holding device mounted in the base for reciprocating movement therein, a shaft rotatably mounted in the base, means for rotating said shaft, a crank secured to said shaft, a connecting rod connecting said crank and the needle, a cam secured to said shaft, a roller attached to said loop holding device, said cam and roller maintaining said loop holding device substantially at rest with respect to said needle during a predetermined portion of the travel of said needle.

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1,693,268. SMOKER'S ASH RECEIVER. ABRAHAM BURGER, Toronto, Ontario, Canada. Filed Feb. 3, 1927. Serial No. 165,717. 1 Claim. (Cl. 131—51.)



A smoker's ash receiver, comprising a bowl-shaped receptacle provided at its upper end with a neck terminating in an outwardly-facing annular flange and in its bottom with a conical spreader terminating below the mouth of said receptacle, and a cover for the latter having a depending rim arranged to slidably fit within the receptacle-neck and provided at its upper end with an external flange adapted for engagement with the receptacle-flange, said cover having an internal flange at its upper end terminating in a depending waste-receiving funnel disposed concentric with the cover-rim and normally resting at its open, lower end on the top of said conical spreader.

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1,693,269. TOOL HANDLE. HARRY I. CLULEE, Wallingford, Conn., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn., a Corporation. Filed Mar. 31, 1927. Serial No. 179,770. 1 Claim. (Cl. 145—61.)



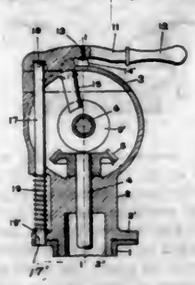
As a new article of manufacture, an armored wooden handle for ice picks and the like, consisting of a turned wooden handle comprising a ball-like end and a shank, the diameter of the said handle at the junction of its ball-like end and its shank being markedly less than the transverse diameter of its ball-like end, and a relatively thick and heavy one-piece metal cap comprising a domical body conforming to the curvature of the outer portion of the ball-like end of the said handle and having upon its edge a circular series of equally-spaced inwardly-curved gripping-fingers superimposed upon and embracing the surface of the inner portion of the said ball-like end of the handle to firmly anchor the metal thereupon, whereby and on account of the thickness and heaviness of the metal cap the armored ball-like end of the handle may be utilized as a hammer and whereby its fingers will serve to hold the cap in place solely by their rigidity and hence gripping power.

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1,693,270. CONTROL MECHANISM FOR WRINGERS. HARRY J. CRINER, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa. Filed Sept. 15, 1927. Serial No. 219,705. 9 Claims. (Cl. 68—32.)

1. In a wringer control mechanism, the combination with a supporting column, of a housing revolubly mount-

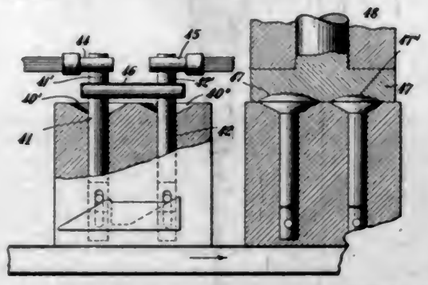
able thereon, a locking bar slidably mounted within the housing, a control lever having one end united to the upper end of the locking bar and fulcrumed upon the housing, a slot formed in the top of the housing, a shift



arm united to the control lever and extending downwardly through the slot into the housing, and means within the housing controllable by the shift arm for throwing the wringer into and out of gear.

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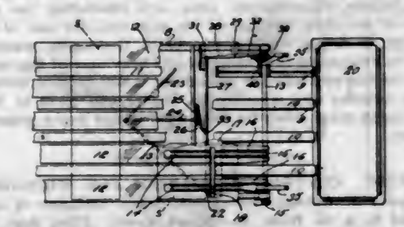
1,693,271. ELECTRICAL HEATING AND FORMING MEANS. ARTHUR G. DANNELL, New York, N. Y., assignor to Elektromatik Forging Machine Corporation, New York, N. Y., a Corporation of New York. Filed May 11, 1927. Serial No. 190,493. 30 Claims. (Cl. 219—3.)



1. Means for heating a metal article to a forging temperature, comprising a holding die member provided with a die cavity, means for supporting a metal article within said die cavity so that that portion of said metal article desired to be heated to a forging temperature extends beyond said die cavity, and means for heating said portion of said metal article to a forging temperature without overheating said die.

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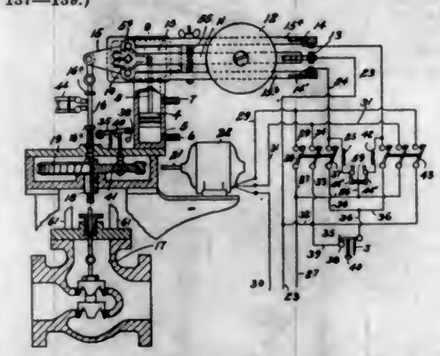
1,693,272. AUTOMATIC CONTROL FOR SHEET-MATERIAL-HANDLING MACHINERY. LOUIS J. ELSAS and ELMER M. JONES, Atlanta, Ga.; said Jones assignor to said Elsas. Filed Mar. 7, 1924. Serial No. 697,506. 9 Claims. (Cl. 192—128.)



6. An apparatus for handling sheet material comprising a belt conveyer, a vacuum system having an inlet port disposed adjacent the conveyer in such position as to be sealed by the sheet material when being moved by the conveyer, a bellows-operated control mechanism, and other mechanism controlled by the bellows-operated mechanism acting on the sheet of material in timed relation to the movement of the material.

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1,693,273. PRESSURE REGULATOR. LEWIS E. HANKISON, Pittsburgh, and WESLEY M. STEPHENS, Cheswick, Pa.; said Stephens assignor to said Hankison. Filed Apr. 25, 1924. Serial No. 708,910. 24 Claims. (Cl. 137—139.)



1. A pressure regulator comprising a member movable in response to unbalance fluid pressure, means controlled by said member for varying the fluid pressure, and an instrumentality actuated by said means for rendering said member ineffective as a controlling agent as the fluid pressure is counterbalanced independently of the position and movements of said member.

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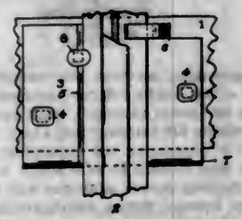
1,693,274. METALLIC-ROOF JOINT. EBER J. HAYMAN, Parkersburg, W. Va. Original application filed Sept. 26, 1927, Serial No. 222,006. Divided and this application filed Apr. 19, 1928. Serial No. 271,344. 3 Claims. (Cl. 108—21.)



1. A roof joint comprising elongated metallic sections, the adjacent longitudinal edge portion of each section having an upstanding wall and a return bent portion, returned towards its respective body, a cap overlying both return bent portions, a raw edge in the cap engaging a raw edge in each of the return bent portions.

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1,693,275. COMBINED TIE-PLATE AND RAIL ANCHOR. EDWARD J. HENGGI, O'Hara Township, Allegheny County, Pa. Filed Dec. 31, 1926. Serial No. 158,209. 1 Claim. (Cl. 238—304.)

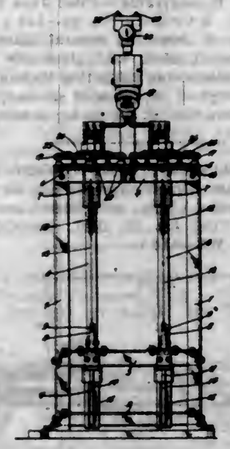


A tie plate consisting of a rectangular metallic plate having an upstanding rib extending between opposite edges, said rib forming an abutment for one edge of a rail base, the plate having a slit extending inwardly from the edge facing said abutment and parallel to the adjacent edge, the material between said slit and adjacent edge being bent upwardly and toward the abutment to form engaging means for the opposite sides of the rail base, the edge of the plate opposite the rebent portion extending downwardly at right angles to the body of the plate.



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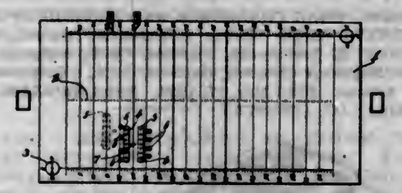
1,693,276. MACHINE FOR USE IN THE MANUFACTURE OF SHOES. FRED HUME, St. Louis, Mo., assignor to International Shoe Company, St. Louis, Mo., a Corporation of Delaware. Filed Nov. 30, 1925. Serial No. 72,140. 16 Claims. (Cl. 12—1.)



1. A machine of the character described comprising, a table, a movable plate supported above said table and having a recess in one edge thereof, mechanism for raising and lowering said plate, wipers supported at the sides of said recess for converging movement, and cams supported by said table for converging said wipers when said plate is lowered.

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1,693,277. FOOTBALL GAME. ALFRED HUSTWICK, Los Angeles, Calif. Filed Mar. 5, 1928. Serial No. 259,044. 7 Claims. (Cl. 273—94.)



1. A football game comprising a miniature football playing field, a game piece representing a plurality of linesmen immovable to each other, a plurality of separate movable pieces representing back-field men, a piece representing a football, and means for actuating the football when making a kick or pass.

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1,693,278. EXPANSIBLE BAND OR BRACELET. CHARLES H. KESTENMAN, Providence, R. I., assignor to Kestenman Bros. Mfg. Co., Providence, R. I., a Corporation of Rhode Island. Filed May 23, 1927. Serial No. 193,530. 4 Claims. (Cl. 59—79.)

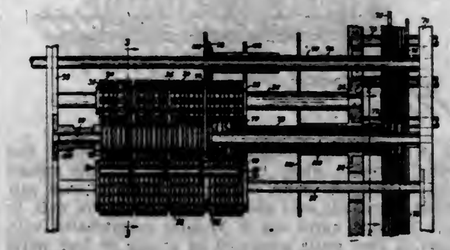
1. An improved construction of link for expansible bands, chains or linkages comprising an outer member having a top-portion with sides bent at right-angles thereto and folded inwardly to form bottom-flanges provided with apertures, and an inner rectangular rigid frame having side-strips adapted to abut the sides of the outer mem-



ber and formed with projections on their edges, said frame being assembled in the outer member between the top-portion and bottom-flanges thereof with its projections engaging the apertures in the bottom-flanges to rigidly hold it in place therein.

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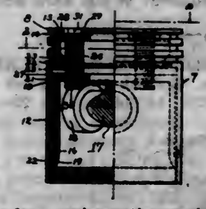
1,693,279. CASH REGISTER. WALTER J. KREIDER, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Mar. 5, 1927. Serial No. 173,164. 14 Claims. (Cl. 101—93.)



1. In a machine of the class described, the combination of a plurality of sets of type carriers, means for adjusting one set of the type carriers, and an internal gearing means operated by said means for adjusting the other sets of type carriers a like extent.

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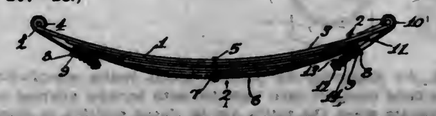
1,693,280. PISTON. JOHN C. LEARY, San Francisco, Calif. Filed Nov. 16, 1925. Serial No. 69,217. 7 Claims. (Cl. 74—108.)



1. In a piston for a reciprocating engine, an outer shell arranged for engagement with the cylinder walls of the engine and having a closed head, a shell arranged within said first shell and adapted for longitudinal adjustment relative thereto, a wrist pin held in said second shell, a spacing member for adjustably positioning said shells, and means cooperating with said spacing member and operable through said piston head to lock said shells in adjusted position.

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1,693,281. SNUBBER. IRA E. LITTEN, Orange, Calif. Filed Nov. 12, 1925. Serial No. 68,569. 4 Claims. (Cl. 267—28.)

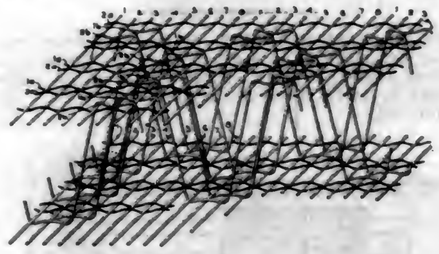


1. A snubber comprising in combination a multiple leaf spring with a main leaf and successively shorter leaves,

the latter being on a convex side when flexed, means to bolt the leaves together at substantially one place, a snubber having a pair of strap-like elements bearing on the convex side of the spring with one end secured to the bolting means and its other end connected to one end of the main leaf, said elements bearing on some of the shorter leaves, one of said elements having a flange with an aperture therethrough, the other element having a rod extending through said aperture, and a compression spring between the flange and the free end of the rod.

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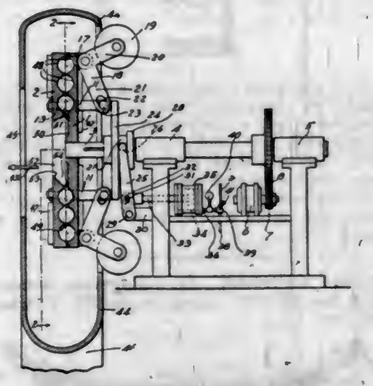
1,693,282. PILE FABRIC. HORACE MELLOR, Sanford, Me., assignor to Sanford Mills, Sanford, Me., a Corporation of Maine. Filed Jan. 25, 1928. Serial No. 249,330. 5 Claims. (Cl. 139—397.)



1. A pile fabric comprising wefts, pile warps and ground warps in which the pile warps and the ground warps alternate in pairs, the ground warps of each pair passing alternately over and under the successive weft, in which the pile warps are of W-form concatenated with groups of four wefts separated by groups of four wefts unconcatenated with the pile warps and in which the concatenation of the pairs of pile warps with the wefts is repeated transversely of the fabric a plurality of times with the same groups of four wefts and then alternately with the intermediate groups of four wefts, whereby a checkered effect is produced with the pile warp in the ground between the diverging arms of the W-sections of the pile warp and with the ground sections unconcatenated with the pile warps substantially concealed by the converging arms of adjacent W-pile warp sections.

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1,693,283. APPARATUS FOR CASTING METAL BODIES. ALBERT E. MIX, Garfield, Utah. Filed May 18, 1926. Serial No. 109,825. 13 Claims. (Cl. 22—65.)



1. An apparatus for casting metal bodies comprising two mold members each provided with recesses adapted to cooperate when the molds are in closed position to form cavities corresponding in shape to the bodies to be cast, means engaging said members to cause them to rotate together while permitting one of said members to move longitudinally with respect to the axis of rotation toward or away from the other member so as to close or open the mold members, means for rotating said mold members, means mounted on one of said mold members to rotate therewith and adapted for operation by the centrifugal force due to the rotation thereof to hold said mold members in closed position, means at the central portion of said members for receiving molten metal, and passage means connecting said metal-receiving means with said recesses.

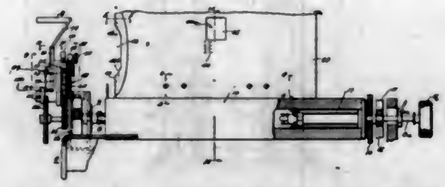
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1,693,284. PROCESS OF PREPARING NATURAL ZEOLITES. MARTIN F. NEWMAN, Oakmont, Pa., assignor to Wm. B. Scaife & Sons Company, Oakmont, Pa., a Corporation of Pennsylvania. Filed June 8, 1925. Serial No. 35,825. 2 Claims. (Cl. 23—112.)

1. The process of preparing natural silicates such as greensand, greensand marl, and glauconite for use in water softening, comprising subjecting the material to the passage therethrough of superheated steam at a temperature of not less than 600° F. for an appreciable time.

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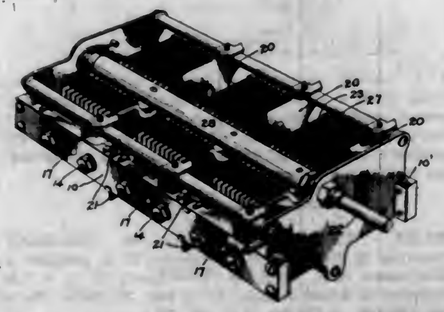
1,693,285. MECHANISM FOR REVOLVING TYPEWRITER CYLINDERS. GUY V. NEWTON and ERNEST BLACKBURN, Los Angeles, Calif.; said Blackburn assignor to said Newton. Filed Jan. 12, 1927. Serial No. 160,603. 5 Claims. (Cl. 197—114.)



1. In a device of the character described, a rotatable driving member, a carrier mounted for rotation with respect to said driving member, a driving shoe carried by the carrier and mounted thereon for movement into and out of operative engagement with the driving member and normally out of such operative engagement, an operating lever movably mounted on the carrier member and movable with respect to the shoe, and an operative connection between the lever and shoe whereby the shoe is moved into and out of such operative engagement by virtue of lever-movement.

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1,693,286. GANG CONDENSER AND METHOD OF ADJUSTING SAME. EDWIN S. PRIDHAM, Oakland, and DONALD K. LIPPINCOTT, Alameda, Calif., assignors to The Magnavox Company, Oakland, Calif., a Corporation of Arizona. Filed Mar. 17, 1926. Serial No. 95,169. 2 Claims. (Cl. 175—41.5.)



1. In a condenser, a plurality of stators, each formed of spaced plates, a cross-plate at each end of each stator section, a shiftable bar carried by each cross-plate, bolts connected to the shiftable bar and extending through slots in the cross-plate, a frame for the stator sections having openings through which said bolts extend, and means insertable through the frame to engage the cross-plates for shifting the same laterally to permit adjustment during assembly.

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1,693,287. OFFICE-WINDOW PROTECTOR. JOSEPH H. SPEIER, Los Angeles, Calif. Filed Feb. 11, 1926. Serial No. 87,556. 3 Claims. (Cl. 20—1.01.)



1. A device of the class described, comprising a straight wall having an opening therethrough, a mirror adjacent the opening and extending outwardly, from one side thereof over the opening at about 45 degrees to the plane of the wall, a grating connecting the outer end of said mirror and the other side of said opening and arranged substantially perpendicular to the wall whereby a person on one side of said opening may see and converse with a person on the other side and at the same time be amply protected from a dangerous weapon carried by said last named person.

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1,693,288. PARKING DEVICE FOR AUTOMOBILES. BROOKS WALKER, Piedmont, Calif. Filed May 3, 1927. Serial No. 188,429. 20 Claims. (Cl. 180—1.)



1. The combination with the transmission shaft on a motor driven vehicle of a jack shaft, a pivotal support for the shaft adjacent one end thereof, permitting said jack shaft to occupy a raised position parallel to the traction surface or a lowered position with one end thereof in contact with the traction surface, a roller secured on the opposite end of the shaft, a toggle lever pivotally connected at one end of the jack shaft at a point adjacent the roller, a pivotal connection between the opposite end of the toggle lever and the axle assembly, engine power actuated means whereby the toggle lever is extended or retracted so as to swing the jack shaft about its pivotal support from a raised position to a lowered position or vice versa and means whereby a driving connection between the transmission shaft and the jack shaft is automatically connected or disconnected during pivotal movement of the jack shaft.

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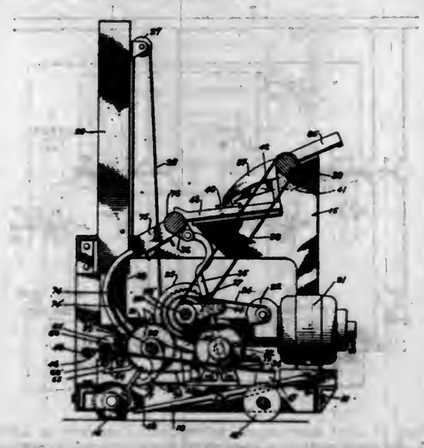
1,693,289. RIFLE-STOCK-BUTT CARTRIDGE BELT AND COUNTERSUNK RIFLE-SLING LOOP. ROSCOE F. WARREN, Los Angeles, Calif. Filed Dec. 15, 1927. Serial No. 240,173. 1 Claim. (Cl. 42—71.)



In the art described, a gun having a stock butt with a shallow recess on one side, a base formed of leather, a strip of flexible material formed into a series of parallel loops, the ends of said material being stitched to the leather base and said material between adjacent loops being stitched to said base, the loops in the base forming a series of parallel open ended pockets adapted to hold cartridges, and said base being inserted in the recess and secured therein.

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1,693,290. FLOOR-NAILING MACHINE. ALVIN A. FAWCETT, San Francisco, Calif., assignor of one-fourth to Hawley S. Bradshaw, Piedmont, Calif., and one-fourth to Charles A. Bradshaw and one-fourth to William J. Swart, Oakland, Calif. Filed Oct. 3, 1927. Serial No. 223,582. 6 Claims. (Cl. 1—46.)



1. In a floor nailing machine, the combination of a frame adapted to travel over the nailed surface, a motor for driving said frame, a driving wheel for said frame in contact with the nailed surface, a cant-hook device engaging the flange of said driving wheel, a cam driven by said motor adapted to engage said cant-hook device to advance said frame a predetermined distance during one revolution thereof, and a brake mechanism for holding said frame stationary when said cam is in an inoperative position.

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1,693,291. CONTAINER AND MANUFACTURE THEREOF. ALBIN L. FORSBERG, Chicago, Ill., assignor to The Thomson & Taylor Co., a Corporation of Illinois. Filed Sept. 24, 1927. Serial No. 221,735. 5 Claims. (Cl. 113—116.)



1. A container having a discharge opening in a wall thereof, and a removable cover for said discharge opening, said cover attached to said wall by an outwardly extending flange surrounding the discharge opening, said flange projecting into and tightly embraced by an outwardly extending flattened hollow ridge in the cover.

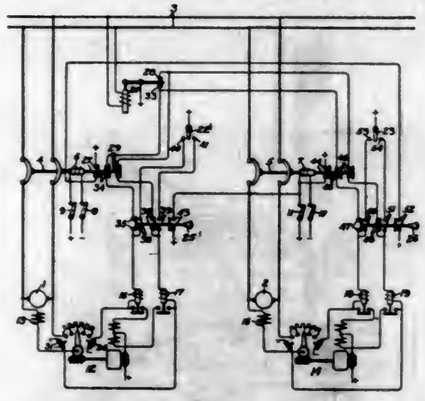
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1,693,292. TUNING HAMMER. WILLIAM FRAUNBERGER, Los Angeles, Calif. Filed Oct. 21, 1926. Serial No. 143,200. 2 Claims. (Cl. 84—459.)



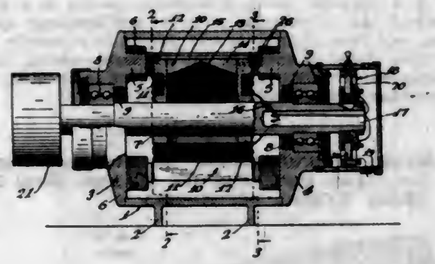
1. A tuning hammer comprising a head having a socket in one end and an elbow on the other, and an operating shank connected to the elbow at one side of the head and extending substantially at right angles from the elbow.

1,693,293. CONTROL SYSTEM. WILLIAM N. GITTINGS, Springfield, Pa., assignor to General Electric Company, a Corporation of New York. Filed Dec. 23, 1927. Serial No. 242,232. 4 Claims. (Cl. 171—118.)



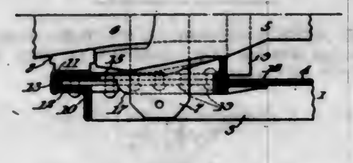
1. In combination, a load circuit, a source of current connected to said load circuit, regulating means for controlling the output of said source, control means responsive to a predetermined condition of the load circuit for controlling said regulating means, other control means for controlling the operation of said regulating means to vary the output of said source, a second source of current, automatic switching means for connecting said second source to said load circuit, switching means for placing the regulating means of the first mentioned source under the control of either of said control means and for simultaneously effecting the operation of said automatic switching means to connect the other source to the load circuit when said regulating means is placed under the control of said other control means.

1,693,294. ELECTRIC MOTOR. CARLOS A. GUTERRES, Santa Monica, Calif., assignor of one-third to Ernest F. Iverson, Los Angeles, Calif., and one-third to Dale M. Gingras, Santa Monica, Calif. Filed Dec. 29, 1926. Serial No. 157,691. 9 Claims. (Cl. 172—36.)



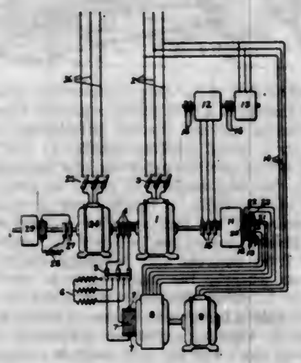
1. An electric motor comprising in combination a fixed structure having an armature shaft rotatably mounted therein, a plurality of armature poles arranged radially with windings on radial cores, two sets of a plurality of field poles secured to the fixed structure, the two sets of field poles being spaced apart and extending towards each other and having winding thereon, the armature poles being rotatably mounted on the shaft between the two sets of field poles.

1,693,295. COMBINED STRIKING CASTING AND FRONT DRAFT LUG. CLEON M. HANNAFORD, Richmond, Va., assignor to Car Devices Company, Richmond, Va., a Corporation of Virginia. Filed June 1, 1925. Serial No. 34,046. 4 Claims. (Cl. 213—56.)



1. A combined one-piece striking casting and front draft lugs, adapted to be secured as a unit in place on a car, the lugs provided with longitudinal slots to receive a coupler key, said slots serving to limit the inward travel of the said key and to receive the contact of the key when the draft gear has gone solid in buff, said draft lugs having rear extensions engaged with the center sill slots, in combination with center sill members having longitudinal slots aligned with the slots in the lugs and of greater length.

1,693,296. SPEED-CONTROL AND FREQUENCY-CONVERTER SET. JOHN I. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 6, 1924. Serial No. 754,405. 2 Claims. (Cl. 172—274.)

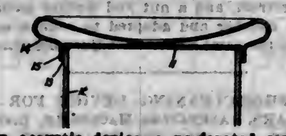


1. In combination, a power line, an induction machine connected to said power line, a regulating machine concatenated with said induction machine, a completely separately excited field winding on said regulating machine, and means for supplying excitation energy from said power line to said field winding comprising apparatus which is responsive to the frequency changes of said line, but nonresponsive to other electrical changes of said line which are apt to produce self-excitation of said concatenated combination.

2. In combination, a power line, an induction machine having its primary connected to said line, a regulating machine concatenated with the secondary of said induction machine, a completely separately excited field winding on said regulating machine, and means for supplying excitation energy from said power line to said field winding comprising a frequency changer and a synchronous motor generator set, said means being arranged to be responsive to the frequency changes of said line, but nonresponsive to the voltage changes thereof.

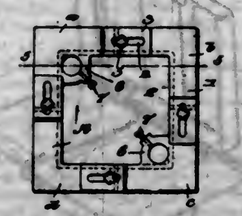


1,693,297. ACOUSTIC DEVICE. JOSEPH HUTT and GEORGE H. BIRD, Coventry, England, assignors to General Electric Company, a Corporation of New York. Filed May 11, 1926, Serial No. 108,355, and in Great Britain June 8, 1925. 5 Claims. (Cl. 181—31.)



1. In an acoustic device, a perforated cover having a depending flange, and a flanged ring supported within said cover by frictional engagement with the depending flange.

1,693,298. RADIO MAST HOLDER. EMANUEL INGHAM, Washington, D. C. Filed Apr. 16, 1924. Serial No. 706,861. 7 Claims. (Cl. 72—108.)



7. A device for supporting a wire from a chimney or the like, comprising an angular frame constructed to rest on the top edge of the chimney and engage two adjacent side walls thereof substantially throughout their length, whereby the strain is distributed over a large area, and wire anchoring means carried by said frame.

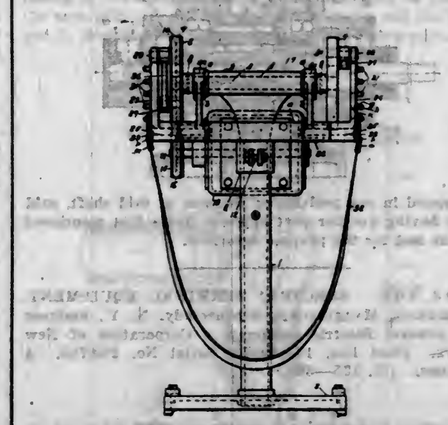
1,693,299. CLINICAL THERMOMETER. WILLIAM H. JOHNS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 8, 1926. Serial No. 107,767. 4 Claims. (Cl. 73—52.)



1. In combination with a thermometer having a liquid in a bore, a receptacle with a gas under pressure, means for connecting the receptacle with the bore of the thermometer, and a valve in the receptacle for controlling the application of the gas from the receptacle to the liquid in the bore to drive the liquid down the bore.

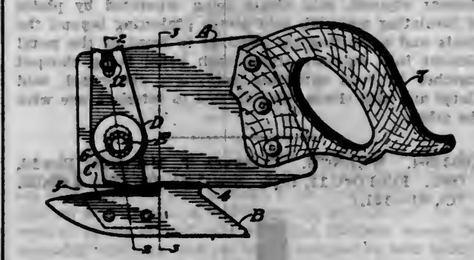
1,693,300. MASSAGING MACHINE. FRANK W. KNOTT and EMERY GABELUS, Detroit, Mich. Filed Nov. 16, 1927. Serial No. 233,005. 6 Claims. (Cl. 128—33.)

1. A massaging machine adapted for producing artificial massaging through a flexible applicator belt, comprising a rigid supporting frame, having a double crank mechanism rotatably mounted at the top end thereof, means connected thereto for causing rotations of the crank mechanism, a swinging pivotal bearing frame at-



tached to the said supporting frame and free to swing upon its pivots, a pair of applicator arms pivotally attached to the said pivotal bearing frame and means for connecting each of the said applicator arms to one of the cranks in a manner to cause an oscillating movement of the said applicator arms in opposite directions, as the double crank mechanism is rotated.

1,693,301. SHEARS. CARL ANDREW KOPP, Sioux City, Iowa. Filed July 16, 1926. Serial No. 122,863. 2 Claims. (Cl. 30—13.)

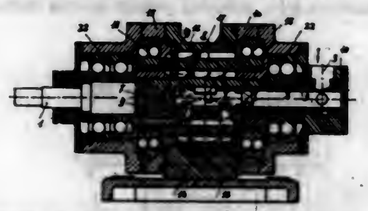


1. In a portable power driven cutting tool, a saw frame, a handle at one end of the frame, said frame provided with an offset shoe at its lower edge, said shoe being formed with an inwardly extending throat, a stationary blade secured to the shoe so that its cutting edge will project obliquely above the top edge of the shoe, and within the throat, an elongated cutting member mounted for vertical movement at its intermediate portion to the frame, guide means at the upper end of said member, the lower end of said member being diagonal and beveled, and further adapted for complementary cutting action with the stationary blade.

1,693,302. ROTARY MACHINE. JEAN LAVERGNE, Paris, France, assignor to Rene Forest, Paris, France. Filed Apr. 4, 1927, Serial No. 180,953, and in France Apr. 7, 1926. 3 Claims. (Cl. 230—157.)

1. In mechanism of the character set forth, the combination of a stationary cylinder, a concentric hollow shaft rotatable therein, a stationary sleeve in said shaft, and an eccentric tubular member rotatable within said cylinder and surrounding said shaft, said member having

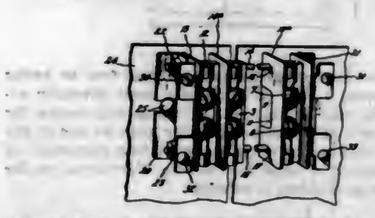
a longitudinal opening, said shaft having a vane extending through said opening into engagement with the wall of said cylinder, ports in the shaft and sleeve adapted to



correspond in one position of rotation of said shaft, said sleeve having another port opposite to its first mentioned port, as and for the purpose described.

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1,693,303. ELECTRIC TERMINAL EQUIPMENT. FREDERICK MACKINTOSH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 13, 1927. Serial No. 239,783. 4 Claims. (Cl. 175—369.)



1. A panel of terminal elements adapted to be used for cross-connecting circuit conductors, said panel having a number of units each consisting of a metal element imbedded in a block or cleat of insulating material with the element exposed, said cleats being separated by plates of insulating material, said plates projecting beyond the cleats and separating the spacings in front of the metal element into separate stalls, each panel being clamped together by rods extending transverse the panel, said plates and said cleats being formed to interlock one with the other.

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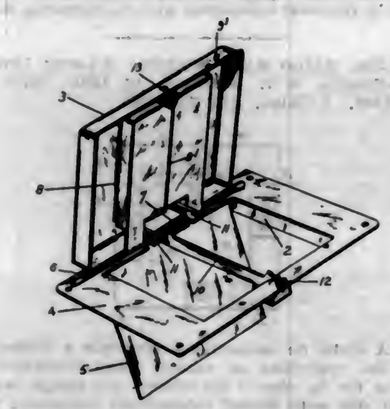
1,693,304. WRENCH. CLARENCE T. MARTHEY, Bowdil, Ohio. Filed Oct. 11, 1926. Serial No. 140,874. 1 Claim. (Cl. 81—121.)



A tool of the character specified, comprising a member adapted to be detachably fitted at one end to a stem and externally screw-threaded and terminating at its opposite end in an eye, a companion member having an eye and an outer shoulder, an open coil spring enclosing adjacent end portions of the members, an S link within the spring connecting the members and readily disengageable therefrom, and a nut and washer mounted upon the threaded member and adapted to confine said spring and maintain the same under an adjustable tension.

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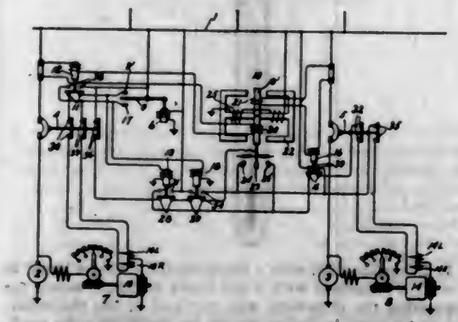
1,693,305. SHOE-CLEANING DEVICE FOR USE ON MOTOR CARS. ALEXANDER MACDONALD, Inverell, New South Wales, Australia. Filed May 4, 1927. Serial No. 188,801. 4 Claims. (Cl. 280—164.)



1. A shoe cleaning device for use on motor cars, comprising, in combination, a box having a hinged drop bottom and a hinged lid, means connected to the lid for permitting the opening and effecting the closing of the drop bottom synchronously with the lid, a shoe cleaning brush within the box, means for mounting the box on the running board of a motor car, and means for releasably holding the lid, together with the drop bottom, in closed position.

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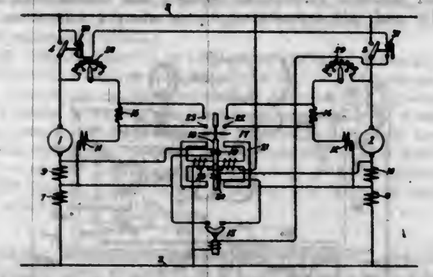
1,693,306. REGULATING SYSTEM. GORDON R. MCDONALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 5, 1926, Serial No. 86,328. Renewed May 26, 1928. 16 Claims. (Cl. 171—312.)



1. In a regulating system, an electric circuit, a plurality of dynamo electric machines connected in parallel and supplying current to said circuit, voltage responsive means, regulating means associated with each machine and arranged to be controlled normally by said voltage responsive means, and means responsive to the relative outputs of said machines arranged to control one of said regulating means when said one of said regulating means is not being controlled by said voltage responsive means.



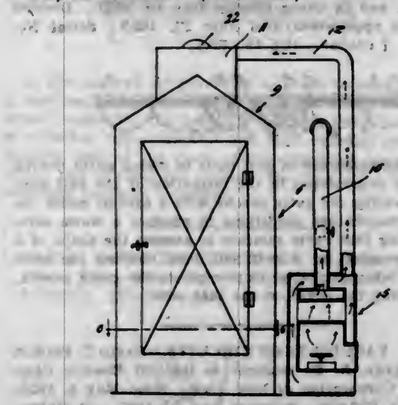
1,693,307. REGULATING SYSTEM. GORDON R. MCDONALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 5, 1926. Serial No. 86,329. 13 Claims. (Cl. 171—312.)



1. In a regulating system, two direct current generators connected in parallel, a field circuit for each generator, current limiting means in each field circuit, and a polarized relay connected and arranged so that when the current output of one of sad generators is too great relatively to the current output of the other generstor, said polarized relay occupies a position to decrease the amount of current limiting means in the field circuit of said other generator and when the current output of said one of said generators is too small relatively to the current output of said other generator, said polarized relay occupies a position to decrease the amount of current limiting means in the field circuit of said one of said generators.

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1,693,308. GARMENT DEODORIZER. PAUL MERKOWITZ, Malta, Mont. Filed Oct. 28, 1927. Serial No. 229,489. 3 Claims. (Cl. 34—19.)

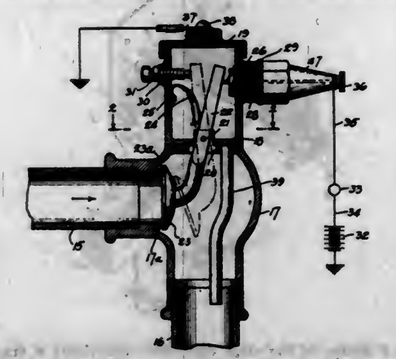


1. In a deodorising apparatus of the class described, a garment receiving cabinet provided with a false bottom spaced from the main bottom and having a depressed central portion equipped with an opening, a screen overlying said false bottom, a manifold carried by said cabinet and connected with the space existing between the false bottom and the main bottom, said manifold being comparatively wide at its bottom and gradually decreasing in width toward the top and merging into a suction fan housing, a fan rotatable in said fan housing, means in said cabinet for supporting garments, and means for supplying hot air to said cabinet to be drawn downwardly through the same, through the opening in said false bottom, and into said manifold.

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1,693,309. SIGNALING DEVICE. ARTHUR L. METTLER, San Pedro, Calif., assignor of one-half to Hugh E. McCarthy, Long Beach, Calif. Filed Apr. 28, 1924. Serial No. 709,634. 2 Claims. (Cl. 200—81.)

1. An electrical circuit controller for the fluid circulating systems of engines comprising in combination a connecting coupling adapted to form part of a fluid conduit, a casing secured upon the coupling and provided with a contact, said coupling and casing having registering openings, ears on the coupling extending through the opening in the casing, a lever pivotally mounted intermediate its ends on the ears with one end disposed in the casing and the other end in the coupling, means engaging the casing portion of



the lever for normally urging the latter into engagement with the contact, a head on the coupling portion of the lever having a deflecting lip and adapted under the action of water flowing through the conduit to move the lever out of engagement with the contact, and screw means adjustable in the casing, and engageable by the lever for limiting the movement of the lever under the action of the water.

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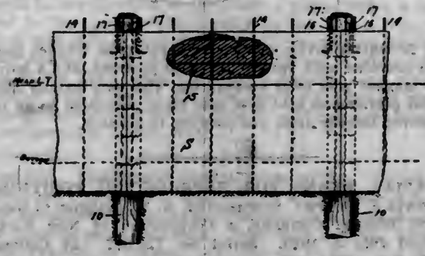
1,693,310. BUTTON FASTENER. CHARLES H. MILLER, Detroit, Mich. Filed Feb. 27, 1928. Serial No. 257,178. 9 Claims. (Cl. 24—103.)



1. A button fastener of the class described, adapted for use with a button, comprising: a frame; means for mounting said frame on said button; a pin longitudinally movable on said frame; a socket-bearing portion for the reception of the end of said pin; and resilient means for normally retaining said pin in engagement in said socket.

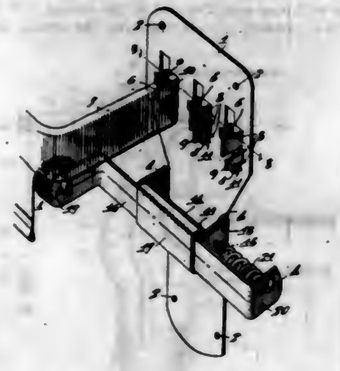
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1,693,311. SEA WALL AND METHOD OF MAKING SAME. ROBERT M. MILLER, Fort Lauderdale, and HERBERT D. HODGSON, Miami, Fla. Filed Nov. 30, 1925. Serial No. 72,311. 11 Claims. (Cl. 61—49.)



5. A sea wall comprising wood piling, a concrete slab extending between such piling and the water, means independent of the sea bottom supporting such slab, including means suspending the slab at the top from the tops of the adjacent pilings.

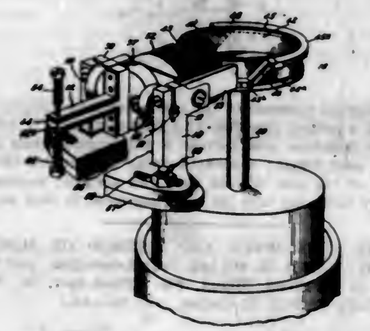
1,693,312. CURTAIN ROD AND SHADE HOLDER. ELMER E. MOORE, Martins Ferry, Ohio, assignor of forty-nine per cent to James Sweeney, Martins Ferry, Ohio. Filed Apr. 13, 1927. Serial No. 183,508. 5 Claims. (Cl. 156—23.)



1. A device of the class described comprising a bracket body of sheet metal, curtain rod mounting lugs projecting from the sheet metal body including a main lug body insertable into the end of the curtain rod, and a lateral lug cut and bent out from the main lug body and bent at the free end to provide a rod engaging spring end to frictionally engage a rod portion when inserted between it and the said main lug body.

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1,693,313. ELECTRICAL CONTROL DEVICE. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed July 9, 1924, Serial No. 725,077. Divided and this application filed Feb. 9, 1927. Serial No. 167,041. 8 Claims. (Cl. 175—336.)

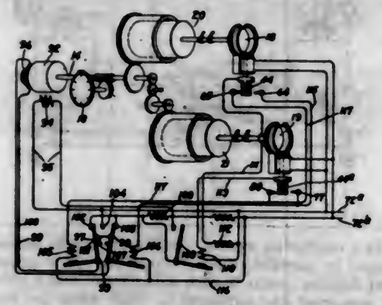


1. A control device comprising a rotatable magnet pole piece provided with axially displaced portions, and a movable magnet pole piece cooperating with said axially displaced portions as said first pole piece is rotated so as to be moved thereby from one position to another.

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1,693,314. MEANS FOR REPRODUCING POSITION. EDWIN J. MURPHY, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 9, 1924. Serial No. 725,077. 24 Claims. (Cl. 172—239.)

1. Means for reproducing position comprising in combination with a controlling movable object and a driven movable object, a motor for driving said driven object, control means for said motor, an electrical system for reproducing angular motion including an electrical transmitting device driven by said controlling object and an electrical reproducing device provided with a rotor member, electrical connections between said transmitting device and said reproducing device whereby said rotor is



caused to follow the movements of said controlling object, and a magnetic connection between said rotor and said control means for actuating said control means upon movement of said controlling object so as to cause the motor to drive the driven object into positional agreement with the controlling object.

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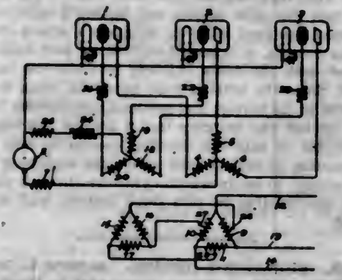
1,693,315. METHOD OF MAKING GOLF BALLS AND ARTICLES PRODUCED THEREFROM. ALBERT ERNEST PENFOLD, Birmingham, England, assignor to The Dunlop Rubber Company, Limited, London, England. Original application filed Nov. 4, 1922, Serial No. 599,067, and in Great Britain Dec. 10, 1921. Divided and this application filed July 27, 1925. Serial No. 46,463. 7 Claims. (Cl. 18—55.)



1. The manufacture of golf balls in which gutta percha or the like is employed in the formation of the ball comprising, treating the gutta percha with a solvent under the required temperature conditions to produce a warm solution, causing this warm solution to assume the shape of a covering member for a golf ball core, chilling the solution after being so shaped to precipitate the gutta percha, and moulding the cover on the said core.

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1,693,316. VACUUM-TUBE CIRCUITS. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 4, 1923, Serial No. 636,696. Renewed Nov. 30, 1927. 23 Claims. (Cl. 175—363.)



1. The combination in a system of electrical distribution of a plurality of electron discharge valves having plate and control circuits, a source of direct current connected

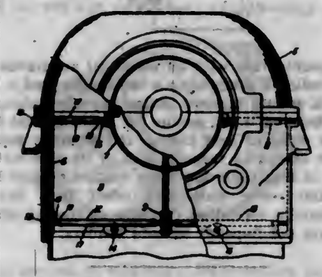


to the plate circuits of said valves, each of the plate circuits of said valves including a primary winding of a transformer, secondary transformer windings associated with said primary windings, and means for impressing upon the control circuit of each valve a control potential which leads the potential of the corresponding plate circuit secondary winding.

23. The combination of an electron discharge device provided with a cathode and anode and with a grid arranged to control the current transmitted between said cathode and anode, a transformer comprising a plurality of windings one of which is connected between said cathode and anode, and means connected between another of said windings and said grid for applying to said grid a potential which has its phase varied in accordance with the load of said transformer.

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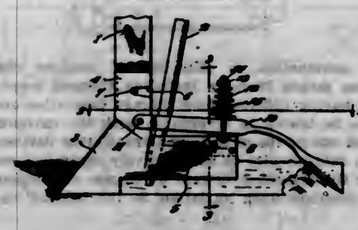
1,693,317. METHOD OF BRACING CASING STRUCTURES FOR ELASTIC FLUID TURBINES AND THE LIKE. CHESTER S. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 1, 1927. Serial No. 195,835. 2 Claims. (Cl. 29—148.)



1. The method of providing a brace between walls of a cast casing structure having spaced walls, which comprises assembling the brace by inserting studs in the ends of a hollow tube with the stud ends exposed, casting the exposed ends of the studs of the assembled brace in said walls, and welding the studs to the tube after the casing structure has been annealed.

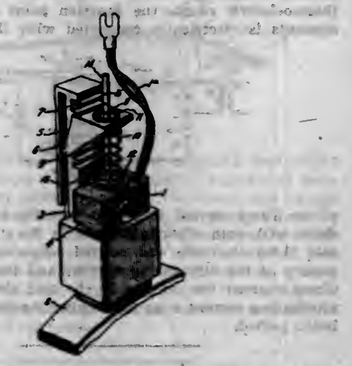
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1,693,318. MOISTURE PRESERVER. SANDERS P. SHELL, Anna, Tex. Filed May 9, 1927. Serial No. 190,068. 3 Claims. (Cl. 111—85.)



1. A planter attachment comprising an opener, spaced wings extending rearwardly from the opener, a yoke connecting the rear ends of the wings, coverers extending over and limited in their downward movement by the wings and pivoted at their forward ends to the opener and having their rear ends curved rearwardly and downwardly, rods extended upwardly from the rear ends of said wings, plates adjustable upon the upper ends of the rods, and springs seated upon the coverers and retained in place by the plates applied to the upper ends of the said rods.

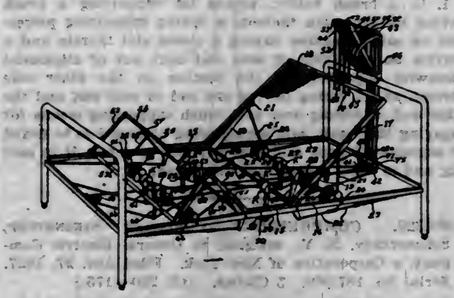
1,693,319. TENSION INDICATOR FOR BRUSH HOLDERS. HARVEY O. SIMMONS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 1, 1926. Serial No. 152,032. 2 Claims. (Cl. 171—324.)



1. In a dynamo-electric machine, a brush holder comprising a body having a guideway for the brush, a coil spring arranged with its axis in alignment with the guideway for urging the brush against the current collecting device of the machine, an adjustable plate secured to said body and engaging said spring for compressing the same against the brush, said plate having an opening therein coaxial with said spring, and a graduated extension carried by the brush and projecting through said opening for indicating the pressure exerted by said spring on the brush.

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1,693,320. BED ATTACHMENT. TURNER B. SMITH and JAMES E. BIXLER, Wilmington, Calif. Filed May 9, 1927. Serial No. 189,996. 4 Claims. (Cl. 5—69.)



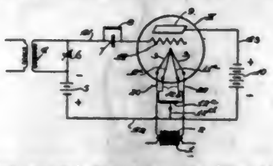
1. A bed attachment comprising a frame pivotally supported to permit elevation and lowering thereof, a shaft, arms fixed to the shaft and engageable with the frame to effect lowering or elevation of the frame as the arms are moved in one direction or the other, a second shaft, a reel fixed to the second shaft, a cable on the reel, a lever to which said cable is connected, a clutch member on the first shaft and on which said lever is supported to effect rotation of the shaft when the lever is actuated, and means operable from a remote point for rotating the second shaft in one direction to wind the cable on said reel and thereby effect operation of said lever.

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1,693,321. ELECTRON-DISCHARGE TUBE. CHARLES SPARTH, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass., a Corporation of Delaware. Filed June 4, 1926. Serial No. 113,596. 2 Claims. (Cl. 250—27.)

1. In combination with an electron discharge device comprising an evacuated envelope, and having an anode and an incandescent filament constituting a cathode, and a third electrode, the cathode being in circuit with a

source of alternating current, the third electrode being in circuit with a source of direct current for receiving therefrom a negative bias; a conductor from the positive pole of the direct current source to a neutral point in the cathode-energizing circuit, said conductor containing a thermoelectric couple the junction point of whose metal elements is electrically connected with the positive pole



of the direct current source; a capacity and resistance in shunt with each other interposed in the circuit containing said third electrode and related respectively to the frequency of the alternating current and the voltage of the direct current for causing in the said circuit due to the alternating current a lag substantially relative to the oscillation period.

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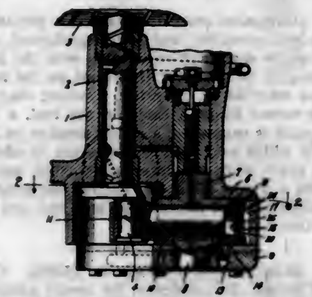
1,693,322. BRUSH HOLDER. MYLES J. STANTON, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 2, 1927. Serial No. 172,133. 2 Claims. (Cl. 171—324.)



1. In a brush holder, means for supporting a brush having an extension thereon, a spring supporting projection on said extension having a closed slot therein and a portion on each side of said slot bent out of alignment therewith oppositely to the portion on the other side thereof, and a spring having one end in said slot and the other end extending over said brush supporting means for engaging the brush, said spring being arranged to be flexed by engagement with said bent portions to retain it in said slot and to exert pressure on the brush.

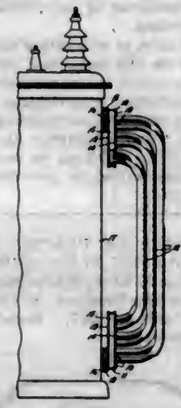
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1,693,323. COMPRESSOR. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 27, 1927. Serial No. 187,069. 5 Claims. (Cl. 230—175.)



1. A compressor comprising a cylinder, a piston therein, an exhaust valve for the cylinder comprising a thin rigid disk seating against the end of the cylinder, said disk having an edge portion engaging the cylinder and an inwardly concaved body portion, an end head for said cylinder, and an inwardly flexed resilient disk between said end head and said rigid disk.

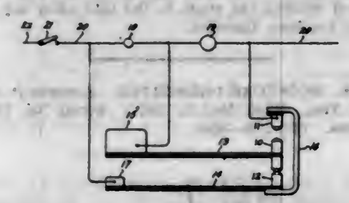
1,693,324. HEAT RADIATOR. HOWARD O. STEPHENS, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 28, 1926. Serial No. 84,475. 3 Claims. (Cl. 257—191.)



2. The combination with an electrical apparatus casing of a heat radiator comprising a top header and a bottom header, each of said headers having opposite substantially vertically disposed walls, means for securing said headers to the side walls of said casing, the securing means for each header extending through both of its said walls, and a plurality of heat radiating tubes connecting said headers through their outer walls and offset from the plane thereof, whereby ascending currents of cooling air along the tubes are not impeded by said headers.

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1,693,325. SELECTIVE-CIRCUIT-CONTROLLING SYSTEM. OLIVER C. TRAVER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1924. Serial No. 750,264. 9 Claims. (Cl. 171—97.)



1. In combination, a plurality of electric circuits, controlling means therefor including thermal responsive elements having different heat storage capacities and arranged to be heated in accordance with the current flow in at least one of the circuits and translating devices connected in said circuits to be selectively controlled responsively to the difference in rate of change of temperature of said elements upon variation in the heating current thereof.

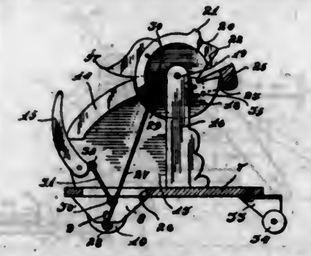
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1,693,326. FIGURE WHEELED TOY. ENOS A. WAGNER, Detroit, Mich. Filed Aug. 6, 1926. Serial No. 127,548. 7 Claims. (Cl. 46—45.)

4. A figure wheeled toy of the class described, comprising: a supporting body; a crank bearing shaft mounted on said supporting body; traction wheels fixedly mounted on said shaft, said supporting body having spaced parts; a head-forming member separate from and rotatably mounted between said parts; a tail-forming member separate from and pivotally mounted on said body; and means connecting said head-forming member and said



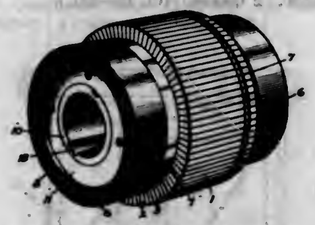
tail-forming member to said crank, the connection of said head-forming member to said crank being a loose one, the rotation of said shaft effecting a rocking of said head-



forming member and said tail-forming member, the incipient rocking of said tail-forming member normally preceding the rocking of said head-forming member.

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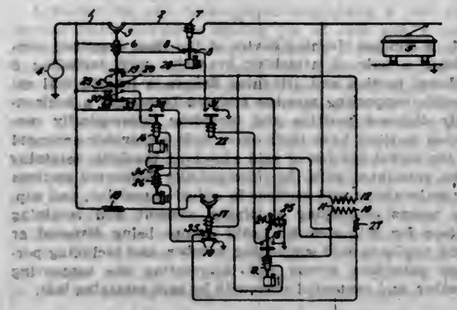
1,693,327. METHOD OF MOLDING. SAMUEL L. ABRAHAMS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1927. Serial No. 167,483. 2 Claims. (Cl. 18—59.)



1. The method of molding a condensation product with a coating of insulating material including the steps of covering a wall of a mold with a mixture of mica and a binding material which is softened by the application of heat, and molding the condensation product in contact therewith by the action of heat and pressure so that the covering forms an insulating coating for the molded product.

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1,693,328. AUTOMATIC RECLOSING-CIRCUIT-BREAKER SYSTEM. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 21, 1926. Serial No. 117,309. 11 Claims. (Cl. 175—294.)



1. In an automatic reclosing circuit breaker system, a supply circuit, a load circuit, a circuit breaker for connecting said circuits together, means for effecting the opening of said circuit breaker, means for producing a voltage change across said load circuit when said circuit breaker is open, and means responsive to the rate at which the voltage across said load circuit changes in response to the operation of said last mentioned means for controlling the reclosing of said circuit breaker.

1,693,329. BRUSH. EDWARD F. ASTLEY, Chicago, Ill., assignor to Humboldt M. Seyer, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,379. 2 Claims. (Cl. 15—133.)



1. A fountain-brush consisting of a handle comprising two hollow members removably connected together to form a reservoir for the liquid contents of the brush, said handle including a tip-member having at its extremity a reduced opening; and a brush extending through and embraced by and normally making sealing contact with the wall of said opening, said brush having its inner end fitted with a band equipped with arms, and stop-means within the tip-member of the handle engaging said arms and serving to limit inward movement of the brush.

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1,693,330. FOUNTAIN BRUSH. EDWARD F. ASTLEY, Chicago, Ill., assignor to Humboldt M. Seyer, Chicago, Ill. Filed Nov. 28, 1927. Serial No. 236,800. 3 Claims. (Cl. 15—133.)



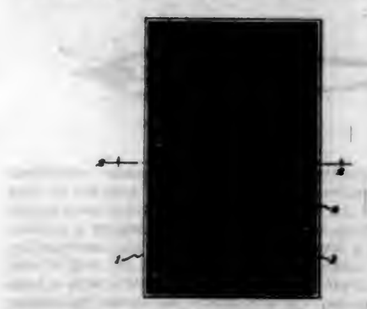
1. A fountain-brush comprising a liquid-containing handle provided at its operative end with an opening, and a brush-unit secured within the operative end of said handle, comprising bristles and means holding the bristles compacted together some distance above said opening, the extremity of the operative end of the handle being equipped with an annulus which embraces and normally makes sealing contact with the bristles extending therethrough but permits the bristles to be moved away from the embracing wall at one side when brushing pressure is exerted, thus opening a space through which liquid may flow outwardly and through which air may pass inwardly.

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1,693,331. MANUFACTURE OF ALIPHATIC COMPOUNDS. WALTER BADER, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Nov. 6, 1924, Serial No. 748,285, and in Great Britain Jan. 24, 1924. 17 Claims. (Cl. 260—123.)

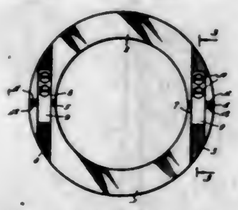
1. A process for the manufacture of aliphatic acidyl derivatives of water characterised in that a ketone and carbon dioxide are combined.

1,693,332. PRINT PLATE. GEORGE A. BANNER, Omaha, Nebr., assignor of one-third to Birt J. Bates and one-third to Carl Andersen, Omaha, Nebr. Filed June 2, 1927. Serial No. 196,097. 4 Claims. (Cl. 101—401.)



1. A type plate comprising a plurality of sheets adhesively secured, the top sheet being adapted to receive the engraving and to have portions removed by being cut through to the next sheet and separated therefrom.

1,693,333. BEARING BUSHING. DWIGHT O. BARRETT, Springfield, Ohio. Filed Aug. 12, 1927. Serial No. 212,530. 3 Claims. (Cl. 308—237.)



1. A bushing for bearings, comprising a pair of arc-shaped bearing sections formed with straight slots in the end, guiding keys secured to one section and extending slidingly into the other section, said keys being fitted into said slots, and shims arranged between said sections for spacing the same apart.

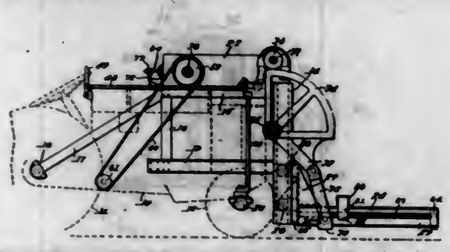
1,693,334. HEADLIGHT. SAMUEL T. BEARE, Jackson, Tenn. Filed Feb. 3, 1928. Serial No. 251,638. 2 Claims. (Cl. 176—16.)



1. An automobile lamp, comprising an incandescent lamp bulb having a translucent shield applied thereto, said shield comprising a portion extending longitudinally of the bulb and covering approximately one-half thereof and a portion covering the end of the bulb except a portion of the bulb in axial alignment with the latter forming a bull's eye.

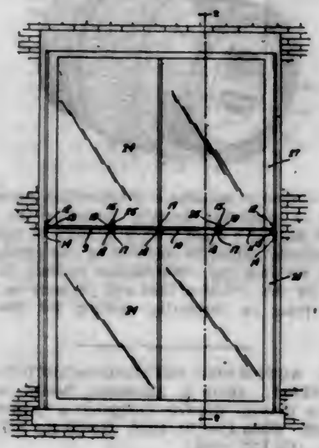
1,693,335. LOADING AND UNLOADING ATTACHMENT FOR TRACTORS. MARK H. DAMBRELL, Worcester, Mass., assignor to Wyman-Gordon Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 13, 1926. Serial No. 108,944. 8 Claims. (Cl. 214—65.)

1. A loading and transporting attachment for a tractor having a main frame comprising a supplemental frame fixed to said main frame of said tractor and projecting forward in front of said tractor frame, said supplemental frame having substantially vertical guide-ways thereon, a work-supporting table mounted for extended vertical movement in said guide-ways on said supplemental frame, loading means mounted on said table and movable therealong for moving



the load relative to said table and means selectively operative to drive said tractor or to raise or lower said table in said guide-ways.

1,693,336. WINDOW-CLEANING DEVICE. ANTHONY J. DEVENBER, Trenton, N. J. Filed Apr. 9, 1928. Serial No. 268,530. 2 Claims. (Cl. 15—251.)



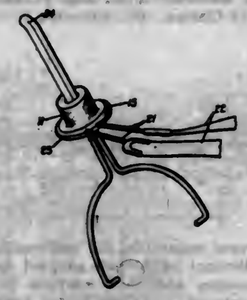
1. A window cleaning device of the class described comprising a pair of attaching brackets, each including a socketed portion and attaching flanges, a longitudinal extensible supporting member adapted to occupy a horizontally disposed position and including telescopically connected sections have their outer ends removably arranged in the socket portion of said attaching brackets, retaining bolts associated with the telescopically connected sections for maintaining said sections in adjusted position, and wiping means embodying a wiping element and retaining clamps for said elements, said clamps being disposed at right angles to said supporting member, and including portions extending across and intersecting the supporting member, and connected therewith by said retaining bolt.

1,693,337. TELEPHONE HEAD SET. ARTHUR EASTMOPE, Coventry, England, assignor to General Electric Company, a Corporation of New York. Filed Mar. 6, 1925, Serial No. 13,572, and in Great Britain Apr. 17, 1924. 5 Claims. (Cl. 179—156.)

1. In a telephone head set, a receiver support including a stem, a slider bracket mounted on said stem, said bracket



having a longitudinally extending bore provided with a plurality of restricted portions which conform substantially in shape to the cross section of said stem; an ex-



ternal grooved flange integral with said bracket and substantially at right angles to said bore, said flange being adapted to receive a head band wire.

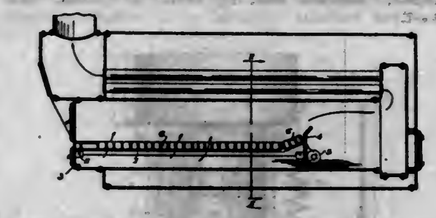
1,693,338. TOILET-PAPER HOLDER. ALFRED B. HONSCHOFF, Cincinnati, Ohio. Filed Sept. 18, 1926. Serial No. 136,286. 1 Claim. (Cl. 242—55.5.)



A holder for roll toilet paper comprising a roll supporting roller having a bearing pin in each end, a body having a flat back for support against a wall surface, a lip at the bottom of the back and spaced therefrom to leave a slot for the passage of paper therethrough, said lip having a paper-severing lower edge, sides on the back, each of said sides containing an eccentrically located substantially circular opening to permit the placing of the roll mounting roller therethrough, with a notch in the bottom edge of each opening to receive the roller bearing pins, and a notched cover pivotally attached to the sides of the body and closing the space between the sides, the notch of the cover being in its lower edge and in front of the slot between the lip and back, whereby access to the paper passing through the slot from the roll may be had for feeding movement by the user's fingers.

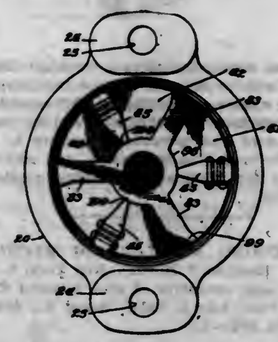
1,693,339. BOILER GRATE AND THE LIKE. ALBERT H. KEMPER and WILLIAM H. DURKIN, Dayton, Ohio. Filed Aug. 23, 1927. Serial No. 214,940. 2 Claims. (Cl. 126—152.)

2. In boiler grates the combination of parallel side bars fixed at their forward ends and movably supported at their rear ends, to compensate for the contraction and expansion of the bars, a bridge wall secured to and supporting the rearward ends of the side bars and movable therewith, and stationary grate bars extended transversely be-



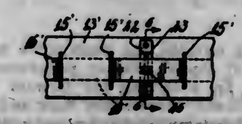
tween and supported freely at their opposite ends on the side bars, and an air duct combined with the bridge wall leading from the air space below the grate over the bridge wall into the air space above the fuel bed.

1,693,340. SHOCK ABSORBER. HENRY H. LOGAN, Chicago, Ill. Filed June 4, 1928. Serial No. 282,594. 16 Claims. (Cl. 188—89.)



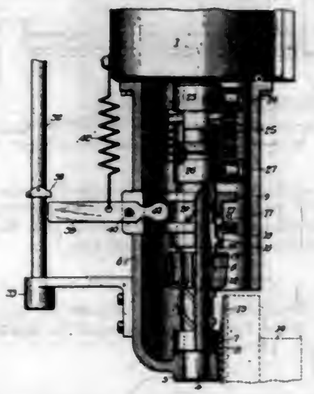
16. In a hydraulic shock absorber of the class described, the combination of a casing having a bearing formed therein, said casing having an internal cylindrical surface forming a working chamber, a shaft journaled in said bearing, said shaft being formed with a plurality of vanes adapted to slidably engage said internal cylindrical surface when said shaft is located in said bearing, and a plurality of fixed vanes carried by said casing and slidably engaging portions of said shaft between said movable vanes, said movable vanes equally spaced around said shaft and at angular distances less than 180°.

1,693,341. HAT HOLDER. FERNAND LOYER and MARCEL GOSSELIN, New York, N. Y. Filed Aug. 23, 1927. Serial No. 214,854. 2 Claims. (Cl. 2—183.)



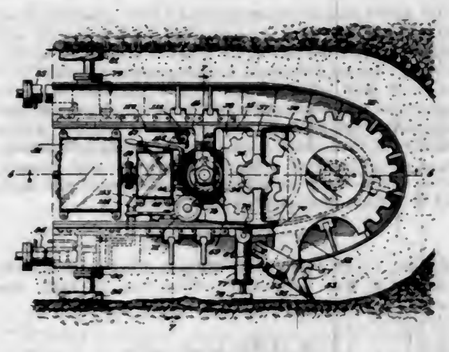
1. The combination with a sweat band for a hat, having spaced slots and an elastic band disposed thru the slots, of a plate having a longitudinal slot therein, mounted on the outer side of the said sweat band, and a spring clip slidably mounted in said longitudinal slot, and engaging the said elastic band for holding the elastic band in adjusted vertical positions relative to the sweat band for preventing the forming of a circumferential ring on a wearer's head due to the said elastic band continually acting in one vertical plane.

1,693,342. ENGINE STARTER. WILLIAM L. MCGRATH, Elmira, N. Y., assignor to Eclipse Machine Company, a Corporation of New York. Filed Feb. 3, 1923, Serial No. 616,668. Renewed Mar. 21, 1927. 12 Claims. (Cl. 74—7.)
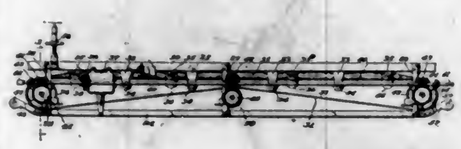


1. An engine starter including a vertically disposed rotatable shaft, a drive mounted thereon and driven thereby and including a sleeve, a driving member mounted on the sleeve for rotary movement therewith and for longitudinal movement thereof and movable by gravity to engage a member of the engine to be started, and manually controlled means for holding the driving member in retracted position.

1,693,343. MINING AND LOADING MACHINE AND METHOD. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed July 2, 1921. Serial No. 482,163. 47 Claims. (Cl. 262—5.)



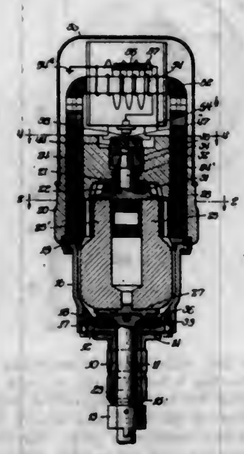
1. In a mining machine, the combination with a supporting frame, of liquid pressure power-operated roof jack mechanism for anchoring the forward portion of said supporting frame between the floor and roof of a mine chamber, dislodging mechanism comprising an upright series of spaced-apart coal piercing implements for receiving concentrated pressure to penetrate and strip the coal from a mine vein by arcuate movement relatively to said supporting frame and in advance thereof, and power transmission mechanism comprising speed reducing mechanism connected to a large spur gear rigidly connected to said piercing implements for operating said dislodging mechanism by feeding the same arcuately relatively to said supporting frame while the latter is firmly anchored by said roof jack mechanism.

1,693,344. LOADING AND CONVEYING APPARATUS FOR COAL MINES. EDMUND C. MORGAN, New York, N. Y.; Olive Eugenie Morgan executrix of said Edmund C. Morgan, deceased. Filed Aug. 11, 1921. Serial No. 491,474. 11 Claims. (Cl. 198—191.)



1. In conveyer apparatus, the combination with a plurality of individual units each adapted to operate as a complete conveyer and each adapted to rest on and slide over a mine floor, of means for flexibly connecting one unit to the next adjacent unit to extend the conveyer in length while accommodating itself to irregularities of such floor, driving connections for each unit, and flexible coupling mechanism between the driving connections of one unit and those of the next adjacent unit.

1,693,345. MAGNETO CONSTRUCTION. EDWARD DE W. PERRY, Pawtucket, R. I., assignor to Scintilla Magneto Company, Inc., Sidney, N. Y., a Corporation of New York. Filed Feb. 10, 1926. Serial No. 87,242. 14 Claims. (Cl. 171—209.)

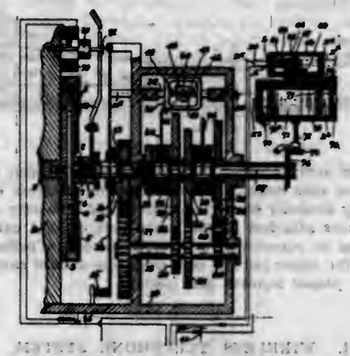


1. In an ignition device, the combination of a rotor comprising a permanent magnet mounted for rotation on a vertical axis, and presenting a plurality each of positive and negative pole pieces, and an armature provided with lamination stacks having horizontally extending laminations disposed for magnetic co-operation with a plurality of like rotor poles simultaneously.

1,693,346. AUTOMATIC MOTOR GEAR-CHANGING MEANS. ADOLPHE C. PETERSON, Minneapolis, Minn. Filed Dec. 4, 1924. Serial No. 753,980. 7 Claims. (Cl. 74—58.)

1. In a variable gear transmission, a driving element and a driven element, transmission units each adapted to effect different engagement between the driving and driven elements, selector units each related to a transmission unit and adapted to move the related unit into or out of engagement, a rotatable cam unit having such relation to the selector units that in specific positions of its rotation different actuating relation of the selector units is obtained, an electric motor adapted to rotate the rotatable





cam unit, a control means embodying a current source, a circuit closing means for each engagement relation, and a rotatable circuit completing means rotatable with the rotatable cam unit having independent circuit completing means related to each circuit closing means.

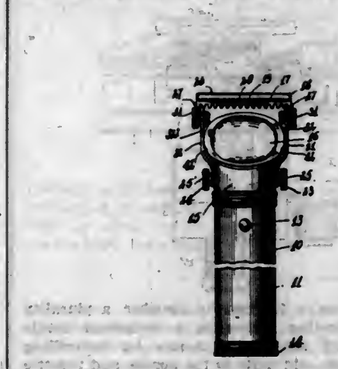
1,693,347. ADJUSTABLE WRENCH. ABRAHAM S. PINKUS, New York, N. Y. Filed Mar. 7, 1927. Serial No. 173,516. 1 Claim. (Cl. 81—126.)



An adjustable wrench as described comprising a handle, a fixed jaw and a sliding jaw, said fixed jaw connected by a pivot to said handle and having a rectangular slot, also an arcute slot formed about a radial centre at right angles to said rectangular slot, said pivot passing through the radial centre of said arcuate slot and forming a ridge transverse to and on the lower side of said rectangular slot and said sliding jaw having a tongue fitting said rectangular slot with its lower side under-cut to clear said pivot and permit a limited sliding movement of said jaw, there being a slot in said tongue transverse to its plane of movement aligning with said arcuate slot and a pin passing through said handle, arcuate slot and transverse slot whereby said sliding jaw is actuated relative to said fixed jaw by said handle.

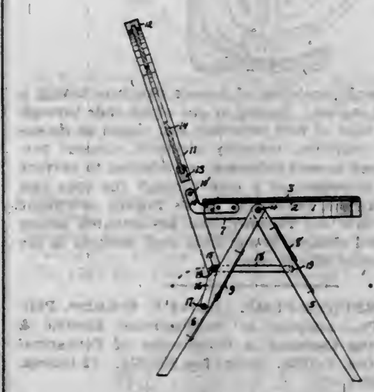
1,693,348. FLASH LIGHT SAFETY RAZOR. FRANK POLLIFRONE, Brooklyn, N. Y. Filed Mar. 6, 1926. Serial No. 92,793. 1 Claim. (Cl. 240—6.4.)

In a device of the class described, the combination with a cap adapted to cover one end of a flashlight and to direct light therefrom, of links pivotally attached at one end to the sides of said cap and diverging in advance thereof in spaced relation to the paths of the rays of light emitted by said flashlight, said links being adapted at their upper extremities to be pivotally attached to the end



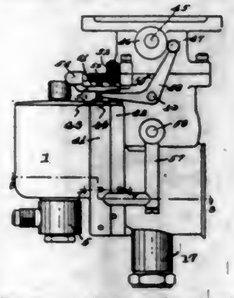
portions of a safety razor for adjustably supporting the same in advance of said cap, and projections on the inner sides of said links adapted to engage in spaced recesses in said cap for retaining said links in an adjusted postion.

1,693,349. FOLDING CHAIR. WILLIAM C. RASTETTER, Fort Wayne, Ind. Filed June 24, 1927. Serial No. 201,178. 4 Claims. (Cl. 155—139.)



1. A folding chair including a back having depending side members, a seat member pivoted to said side members, fore and rear legs, means to pivotally connect said legs to the seat member, said side members of the back being disposed in planes exteriorly of the planes of the legs, a transverse member connecting the lower ends of the side members of the back and being engageable with the rear side edges of the rear legs to hold the back in operative position, links pivoted at one of their ends to said transverse member and at their opposite ends to the rear legs, and links pivoted at one of their ends to said transverse member and at their opposite ends to said fore legs.

**1,693,850. FLOATING-VENTURI CARBURETOR.** CHARLES L. RAYFIELD, Chicago, Ill., assignor, by mesne assignments, to Marvel Carbureter Company, Flint, Mich., a Corporation of Indiana. Filed Sept. 15, 1920. Serial No. 410,403. 2 Claims. (Cl. 261—51.)



1. In a carburetor, a fuel supply chamber, a plurality of wells communicating therewith, a compound nozzle communicating with said wells, means for controlling the flow of fuel from said wells to the nozzle, and throttle controlled means for successively operating said controlling means.

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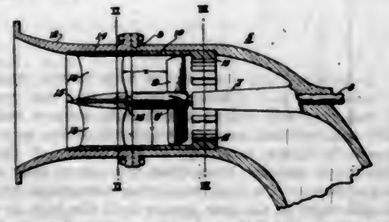
**1,693,351. COIN BANK.** EDMUND H. SANDKUHL, Brooklyn, N. Y., assignor to David H. Zell, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,663. 4 Claims. (Cl. 232—4.)



1. A coin bank consisting of a bank structure having a coin receiving raceway opening at one of its ends through the marginal edge of said structure and closed at its opposite end, a shiftable, inwardly yieldable, element permanently housed in said structure and adapted to prevent the outward movement of a coin through the open end of the raceway but permitting of its inward movement therethrough into the raceway, and key-actuated means for shifting said element to and from such position in the path of movement of the coin.

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**1,693,352. DREDGER PUMP.** HENRY F. SCHMIDT, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 6, 1922. Serial No. 605,314. 12 Claims. (Cl. 103—89.)



1. The combination with a propeller-pump provided with an intake member, of crushing teeth mounted on the interior of said intake member and adapted to coact with the propeller blades in reducing foreign substances attempting to pass through the pump.

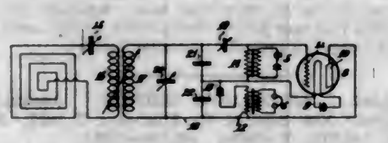
**1,693,353. DRAG SCRAPER.** WILLIAM J. SLAVIN, Howell, Mich. Filed Feb. 23, 1926. Serial No. 89,960. 1 Claim. (Cl. 37—147.)



A drag scraper comprising a hollow body open at the front and rear ends, a closure gate for the rear end of said body hingedly connected thereto and upwardly swingable, cables attached to the lower part of said gate and extending in opposite directions therefrom, a pulley carried by the upper part of said gate, one of said cables being also passed beneath said pulley.

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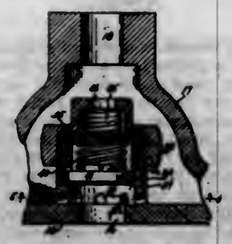
**1,693,354. WIRELESS TELEPHONE SYSTEM.** MORTON W. STERNS, Jamaica, N. Y. Filed Jan. 24, 1925. Serial No. 4,397. 5 Claims. (Cl. 250—9.)



1. In a single radio set for both transmission and reception, an antenna system, an oscillation generator having a cathode, an anode, and a control ement, said anode and said control element being connected by a circuit including a control element condenser and a tuning inductance, said tuning inductance being magnetically coupled to said antenan system, said control element having a modulating device included in its associated circuits and said anode having a telephone receiving device connected in its assocated circuits.

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**1,693,355. REFRIGERATING APPARATUS.** MELBOURNE E. THOMPSON, Detroit, Mich., assignor to Trippensee Sales and Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1927. Serial No. 199,274. 1 Claim. (Cl. 251—144.)



A compressor outlet valve comprising a guide sleeve surrounding the outlet port, a disc valve guided therein, said sleeve having lateral openings below the normal upper travel of said valve and being open at its upper end, an abutment in said sleeve for normally limiting the upward movement of said valve, and yielding means for permitting movement of said abutment to allow abnormal movement of said valve, said abutment being provided with passages adapted to be opened by such abnormal movement to connect the space under the valve with the open end of said guide sleeve.

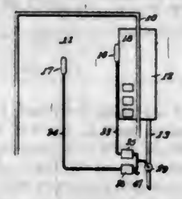


**1,693,356. PROCESS FOR PRODUCING A FUEL FROM PULVERIZED COAL.** WALTER EDWIN TRENT, New York, N. Y., assignor to Trent's Process Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 22, 1926. Serial No. 150,153. 10 Claims. (Cl. 44—1.)

1. A process for producing a fuel, consisting in pulverizing coal containing a substantial volatile content to a fine state of division, and in heating such material to remove volatiles therefrom in sufficient quantity to entrain and carry in suspension therein the fine carbonaceous particles.

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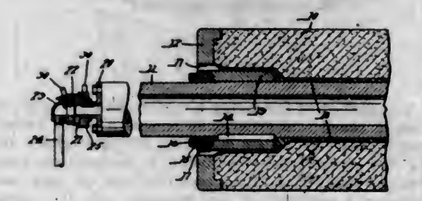
**1,693,357. REFRIGERATION.** HERVEY S. VASSAR, Bloomfield, N. J. Filed Jan. 18, 1926. Serial No. 81,891. 4 Claims. (Cl. 62—5.)



1. In refrigeration, a machine of the absorption type including a cooling element and a heater for effecting operation of the machine, a conduit for flow of heating fluid to said heater, a control valve in said conduit, actuating means for said valve, a thermostatically governed controller adjacent the cooling unit, a thermostatically governed controller located at a point removed from the cooling unit, means for connecting said controllers with each other and with the valve operating means to require joint operation of both controllers to effect opening movement of the valve and arbitrarily operable means for effecting opening movement of the valve independently of one of the controllers but jointly and in conjunction with the other of the controllers.

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**1,693,358. STONE ROLL.** JOHN WARREN VEDDER, Worcester, Mass. Filed Jan. 9, 1928. Serial No. 245,328. 4 Claims. (Cl. 92—49.)

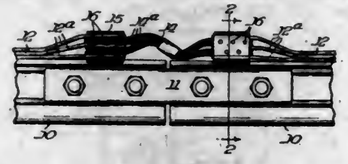


1. The combination with a stone roll for a paper making machine, of a hollow shaft passing through the roll on which it is supported and connections at the ends of the shaft for circulating cooling water through the center of the shaft from one end to the other.

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**1,693,359. CONNECTION FOR ELECTRICAL CONDUCTORS.** ALFRED WICHERT, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Joint Stock Company. Filed Jan. 27, 1927, Serial No. 164,037, and in Germany Feb. 8, 1926. 1 Claim. (Cl. 173—262.)

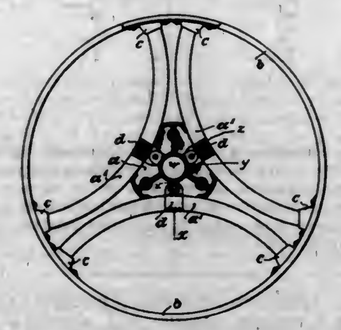
In electrical conductors, the combination with laminated conductors, of a flexible connecting conductor having component laminations, the end portions of the laminations of the connecting conductor being overlapped with the end portions of laminations of the other conductors, constraining members embracing the overlapped portions of said laminations, and wedges passing transversely



through said constraining members between some of the overlapped laminations and clamping some of the laminations in close surface contact under constraint of the constraining members.

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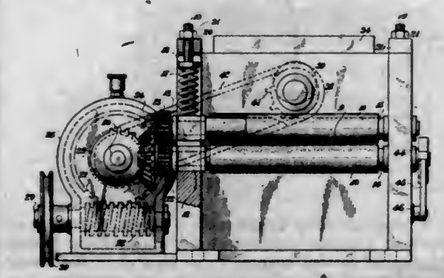
**1,693,360. VEHICLE WHEEL.** FREDERICK W. BAKER, Oldswinford, Stourbridge, England, assignor to Trinity Wheel Corporation, a Corporation of New York. Filed Feb. 2, 1920, Serial No. 355,631, and in Great Britain Dec. 10, 1919. Renewed Sept. 15, 1925. 3 Claims. (Cl. 152—29.)



2. In a vehicle wheel, a rim and a plurality of arched spokes, each rigid throughout with its ends terminating at the rim, the spokes being spaced apart with their arches confronting each other.

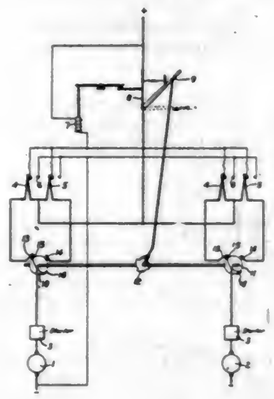
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**1,693,361. MACHINE FOR CUTTING OFF STOCK.** THOMAS A. BEANEY, Poughkeepsie, N. Y., assignor to Beaney Rubber Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 10, 1927. Serial No. 174,173. 1 Claim. (Cl. 164—49.)



A machine for cutting off stock comprising a stock feed, a cutter shearing across the stock behind the stock feed, a mutilated gear driving the stock feed, and a detent for the stock feed comprising a wheel having a number of teeth proportional to the arc occupied by teeth on the mutilated gear and a pawl for said teeth.

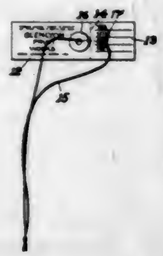
1,693,362. THERMAL PROTECTIVE SYSTEM. HANS BEIERSDORF, Berlin-Grunewald, Germany, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 29, 1925. Serial No. 65,632, and in Germany Oct. 30, 1924. 5 Claims. (Cl. 175—294.)



5. In combination, a circuit-interrupter and a plurality of protective relays associated therewith to independently control the actuation thereof, and means operable upon the successive actuation of said circuit-interrupter to alternately connect said relays in operative relation to said circuit interrupter.

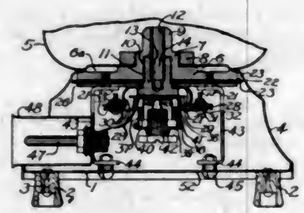
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1,693,363. LABEL FOR WOUND OR ROLLED FABRICS. GEORGE E. BENNETT, Riverside, R. I., assignor to Sayles Finishing Plants, Inc., Saylesville, R. I., a Corporation of Rhode Island. Filed Mar. 5, 1928. Serial No. 259,093. 4 Claims. (Cl. 40—2.)



1. A label for cloth wound upon a holder, consisting of a sheet of material comprising a unitary whole having an anchoring portion adapted to be secured to the holder and a data-bearing portion secured to the anchoring portion by a weakened line along which it may be torn off from the anchoring portion, and a connecting element between said portions in addition to said weakened line to connect the data-bearing portion to the roll of cloth after the data-bearing portion has been torn off from the anchoring portion.

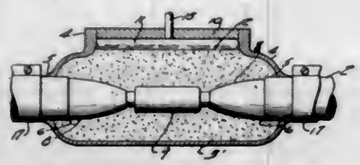
1,693,364. ELECTRIC HEATER FOR PERCOLATORS AND THE LIKE. ALFRED BERSTED and MARTIN BERSTED, Chicago, Ill. Filed Apr. 23, 1927. Serial No. 185,938. 6 Claims. (Cl. 219—44.)



1. In a device of the class described, a heating element, a conductive member and a contact member adjacent thereto, both in circuit with said element, resilient means associated with said contact member, and fusible means forcing said contact member against said conductive member in opposition to the action of said resilient means.

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1,693,365. METHOD OF FORMING HIGH-TENSION CABLE JOINTS OR SPLICES FOR UNDERGROUND SYSTEMS. WILLIAM E. BOYLE and HUDSON R. SEARING, New York, N. Y., assignors, by direct and mesne assignments, to Engineering Products Corporation, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 6, 1924. Serial No. 754,273. 5 Claims. (Cl. 173—268.)



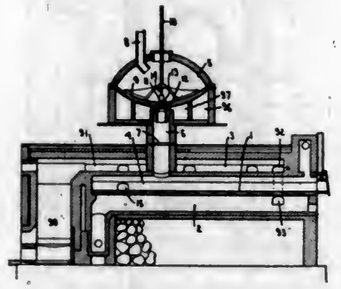
3. The method of insulating a cable conductor splice in situ which consists in forming an enclosing casing around the splice, introducing an insulating oil bath within the casing and applying pressure thereto to saturate the cable insulation therewithin, then removing the oil bath and introducing a quantity of raw material into the casing which is capable of transformation by treatment into a solid impermeable insulating mass, and subjecting the material to combined pressure and heat treatment to transform it into a solid impermeable insulating mass surrounding the splice and filling the crevices and interstices within the casing and about the joint.

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1,693,366. MECHANICAL FURNACE. OTTO H. BUSE, Shaker Heights, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed July 5, 1922, Serial No. 573,026, now Patent No. 1,561,054. Divided and this application filed Oct. 13, 1925. Serial No. 62,290. 4 Claims. (Cl. 23—277.)

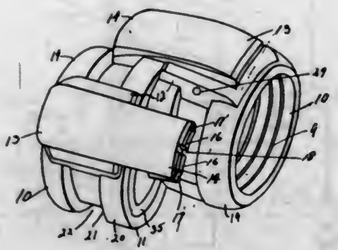
1. In a two stage mechanical furnace, the combination of a charging pot, a furnace chamber below said pot, means for stirring material in said pot, an opening to allow gravity discharge of materials from said pot, and a removable plug closing such opening, a sealing groove being formed between the plug and the wall of the opening in the closed position of the plug.





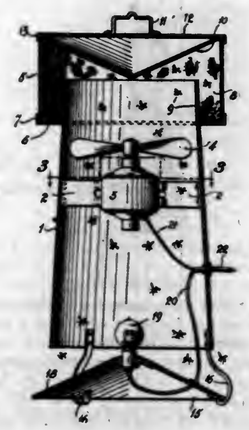
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1,693,367. HOSE COUPLING. GEORGE H. CALLAHAN, Gloucester, N. J. Filed Aug. 12, 1926. Serial No. 128,750. 3 Claims. (Cl. 285—65.)



1. A hose coupling comprising a pair of cooperating members, each including a cylindrical body having a circular groove on the inside thereof adjacent the working face; a compressible gasket mounted in the groove and having portions projecting into the bore of the member and outside of the working face thereof; circumferential ribs on the outside of said body, the one adjacent the working face having its rear side beveled in opposite directions; a latch having a portion projecting from the body for registration with the space between the ribs of the cooperating member; a lip projecting from the latch; a ledge projecting from the rear rib of the body into the space between the two ribs and inside of which the lip on the latch of the cooperating member is to enter; and a catch in the region of the ledge for coaction with a recess in the lip of the latch of the cooperating member for the purpose stated.

1,693,368. MOSQUITO AND INSECT TRAP. GEORGE C. CHERRY, Dallas, Tex., assignor to Effie May Cherry, Dallas, Tex. Filed Nov. 4, 1927. Serial No. 231,058. 6 Claims. (Cl. 43—113.)



1. An insect trap comprising a cylindrical, hollow element, a cone spaced from the bottom thereof, a cone spaced from the top thereof, insect attracting means on the lower cone, means in the cylindrical element for creating air suction therethrough, and a receptacle on the cylindrical element for collecting the insects.

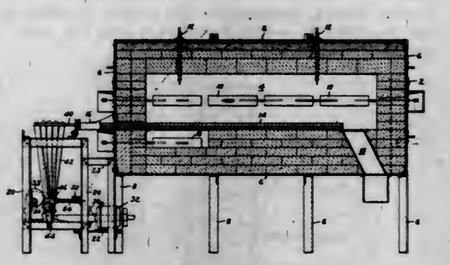
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1,693,369. HEAT-RESPONSIVE MATERIAL. PAUL B. COCHRAN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1927. Serial No. 185,665. 7 Claims. (Cl. 134—39.)

2. A heat-responsive material comprising a waterproof vehicle and a composition including about thirty parts cuprous iodide and about seventy parts mercuric iodide.

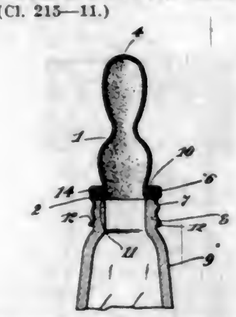
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1,693,370. FURNACE. ORA A. COLBY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 11, 1927. Serial No. 190,552. 4 Claims. (Cl. 214—18.)



1. In a furnace, a plurality of pushers for moving a plurality of articles through said furnace, and means for operating said pushers in a predetermined sequence, said means comprising a motor-driven cam cooperating with one of said pushers, and a plurality of cams adjustable radially with respect to said first cam and driven thereby.

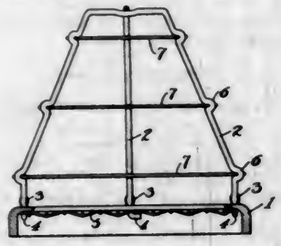
1,693,371. FEEDING DEVICE. JAMES O. DERGAN, Toronto, Ontario, Canada, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Dec. 31, 1926. Serial No. 158,193. 6 Claims. (Cl. 215—11.)



1. A feeding bottle comprising a container, a nipple having an annular bead at its lower edge, and a metallic member having an aperture in its upper portion adapted to receive said nipple, the upper part of said member having a narrow flange adapted to extend over the bead on said nipple, with the free edge of said flange bent downwardly to engage and to hold said nipple in position on the end of said container.

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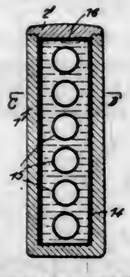
1,693,372. FLOWER HOLDER. RENE E. DENMAN, Kansas City, Mo. Filed Oct. 26, 1927. Serial No. 228,877. 5 Claims. (Cl. 47—41.)



1. A flower holder comprising a plurality of corrugated endless wires of different diameters supported in a substantially horizontal position and in spaced apart relation, a weighted base, and uprights held in said base and looped at spaced heights to afford support for the corrugated wires.

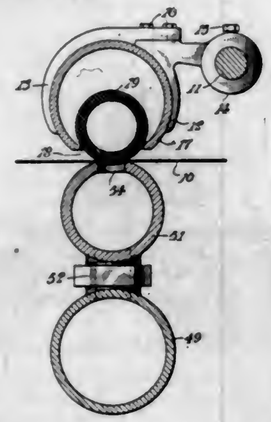
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1,693,373. REFRIGERATING APPARATUS. JACOB FAHRNI, Zurich, Switzerland: Filed Sept. 18, 1926, Serial No. 136,316, and in Switzerland July 26, 1926. 2 Claims. (Cl. 62—75.)



1. Refrigerating apparatus comprising a square tank, a detachable lid on said tank, a casing adapted to receive a refrigerating medium and to be inserted in said tank and a plurality of containers adapted to receive the material to be refrigerated secured in said casing.

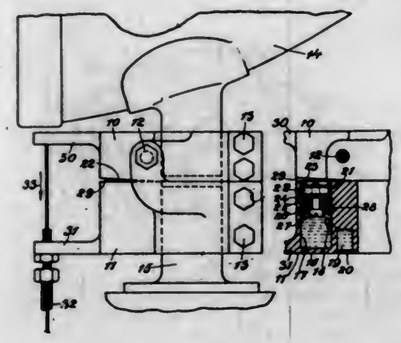
1,693,374. VACUUM SEAL. WILLIAM P. FEENEY, Cheboygan, Mich. Filed Nov. 1, 1927. Serial No. 230,377. 6 Claims. (Cl. 92—50.)



1. In an apparatus of the class described, a pulp carrier, a suction device for inducing a draft through said carrier, said device being provided with an intake aperture, and means adapted to be positioned in alignment with said aperture to restrict the draft through said carrier.

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1,693,375. DIRIGIBLE HEADLIGHT. RENÉ FERRERO, Geneva, Switzerland. Filed Jan. 12, 1928, Serial No. 246,351, and in Germany Feb. 10, 1927. 5 Claims. (Cl. 240—61.)



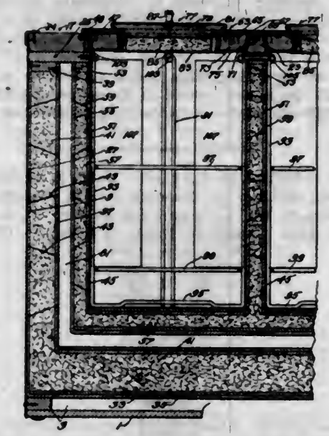
1. In an articulated headlight support for motor or other vehicles the combination, with supporting members which can move relatively to a limited extent, of a piston working in a cylinder against which said motion has to take place and by means of which air is compressed, the cylinder being almost filled in with liquid so as to present a small air cushion between the rear surface of the piston and the liquid.

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1,693,376. REFRIGERATING CABINET. HENRY C. FOLGER, Waltham, Mass., assignor, by mesne assignments, to Waltham System, Inc., Waverly, Mass., a Corporation of Massachusetts. Filed July 26, 1926. Serial No. 124,796. 4 Claims. (Cl. 220—9.)

1. A refrigerating cabinet comprising, in combination, outer and inner casings, a heat insulation lining for the outer casing comprising nested, spaced corrugated paper boxes and kapok in the space between said boxes; and a heat insulation sheath for the inner casing comprising nested, spaced corrugated paper boxes and kapok in the





space between said boxes; said lining and sheath being in nested relation and having a substantial air space between them.

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1,693,377. REFRIGERATION APPARATUS. HENRY C. FOLGER, Waltham, Mass., assignor, by mesne assignments, to Waltham System, Inc., Waverly, Mass., a Corporation of Massachusetts. Filed Mar. 17, 1927. Serial No. 175,980. 4 Claims. (Cl. 62—157.)

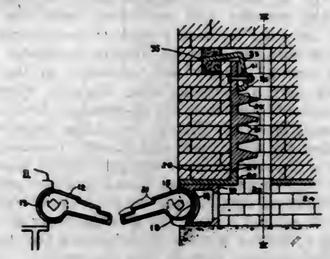


2. A readily portable compact unit for refrigerating ice cream comprising a closed cartridge made of metal and having the external form of a triangular prism, and a refrigerating liquid in the cartridge which freezes at a temperature substantially lower than the freezing temperature of ice cream.

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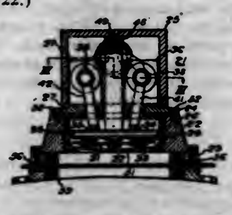
1,693,378. AIR-COOLED FURNACE WALL. ROBERT A. FORKSMAN, Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 3, 1924. Serial No. 753,585. 4 Claims. (Cl. 110—68.)

1. In a furnace provided with a rear dump grate, a casting for supporting said dump grate, an angle member resting thereon, a masonry wall exposed to the furnace and resting on one leg of said angle member, an upstanding longitudinally extending heat transmitting member resting on the edge of the other leg of said angle member and abutting said wall, and a clamping member imbedded partially in said wall and engaging the upper portion of said heat transmitting member.



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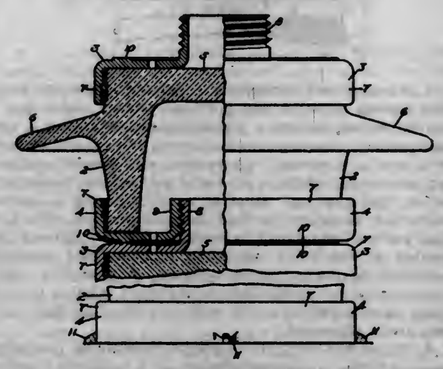
1,693,379. THERMAL RELAY. HARLAN S. GANO, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1926. Serial No. 117,896. 7 Claims. (Cl. 200—122.)



1. A thermal relay for an energy-translating device, comprising a thermally-actuable member, means for mounting it on an energy-translating device and for subjecting it to the temperature thereof, and means in said relay for thermally influencing said thermally-actuable member in accordance with the current continuously traversing an energy-translating device with which it is operatively associated.

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1,693,380. INSULATOR. GEORGE I. GILCHREST, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 18, 1919. Serial No. 331,548. 12 Claims. (Cl. 173—318.)



1. In an insulator, the combination with a pair of insulating members each having a portion entirely thereacross of insulation and embodying a cylindrical portion having

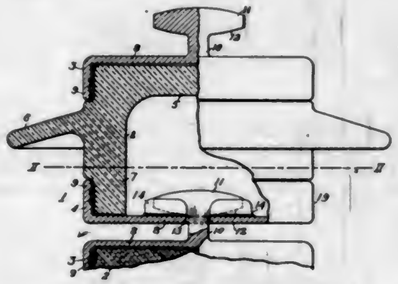
a flat transverse end surface disposed in close proximity to the flat-end surface of the other, of a metal member secured to each of said ends embodying a transverse discoidal portion in relatively close flat-surface relation to its insulating member and contacting with the metal member of the other insulating member, each metal member having a uniform relatively smooth outermost perimeter and a central portion for connection to the other, one of said central portions being disposed within the plane of the outer surface of its discoidal portion.

9. An insulator comprising an insulating member having a recessed cylindrical end and a metal terminal member having a discoidal portion disposed in flat transverse relation to the longitudinal axis of the insulator over said end and cylindrical longitudinal flanges, one of which embraces and is secured to said end and the other of which, constituting a holding portion for attaching the insulator to an exterior member, extends into the recess.

11. An insulator comprising an insulating member having cylindrical ends, one of which is recessed, a metal terminal member having a discoidal portion disposed in flat transverse relation to the longitudinal axis of the insulator over the recessed end thereof and cylindrical longitudinal flanges, one of which embraces and is secured to the recessed end and the other of which is internally screw threaded and extends into the recess, and a similar terminal member having a discoidal portion in flat transyerse position over the other end of the insulating member and cylindrical longitudinal flanges, one of which embraces and is secured to said other end of the insulating member and the other of which is externally screw-threaded and projects outwardly from the insulating member, said terminal members each having an annular raised seat portion on the outer surface thereof intermediate the said flanges thereon.

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1,693,381. INSULATOR. GEORGE I. GILCHREST, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 20, 1920, Serial No. 352,719. Renewed Mar. 1, 1927. 13 Claims. (Cl. 173—318.)



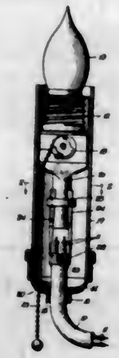
2. An insulator comprising a pair of insulating members having adjacent end portions, one of which has a central recess therein, a terminal member having a central portion extending into said recess and secured in position over said recessed end portion, said inwardly-extending portion embodying a connector seat portion inside said recess, and a second terminal member having a central projecting connector portion for co-operation with said seat portion and secured in position over the adjacent end portion of the other insulating member, said terminal members having adjacent surfaces of relatively great areas spaced in substantially equi-distant relation to each other throughout when the axes of said insulating members are in alinement.

6. In an insulator, the combination with an insulating member having an opening therein, of a connector therefor comprising two members one of which has an elongated slot and a channel portion extending transversely with respect to the slot and the other of which has a projection and a transverse elongated head on the projection for insertion through said slot and for positioning in said channel, said head and said channel being operatively positioned inside the opening in said insulating member.

8. An insulator connector comprising two relatively-thin discoidal members disposed in proximate substantially parallel planes, one of said members having an elongated slot and a channel portion on one side extending transversely with respect to the slot, and the other of said members having a projection and a transverse elongated head on the projection curved at its under side for insertion through said slot and for rocking positioning in said channel.

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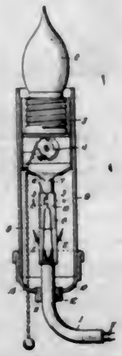
1,693,382. SWITCH MOUNTING. DAVID D. GORDON, Chicago, Ill., assignor to Economy Fuse & Manufacturing Co., Chicago, Ill., a Corporation of New York. Filed Jan. 31, 1925. Serial No. 5,915. 2 Claims. (Cl. 173—354.)



1. In lamp socket mechanism, a conduit for electric wires, elongated holding means mounted on said conduit, an electric socket, a stem carried by said socket said stem having a smooth cylindrical portion adapted to be located between said holding means and having a rotary and axially slidable bearing relationship therewith, and ring means encircling said holding means for holding same in gripping relationship with said stem, said holding means being adapted to be freed sufficiently from said stem to permit longitudinal sliding movement of said stem between said holding means independently of any rotative movement of said stem.

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1,693,383. CANDLE-SOCKET MOUNTING. DAVID D. GORDON and WILLIAM LINDSAY, Chicago, Ill., assignors to Economy Fuse and Manufacturing Company, Chicago, Ill., a Corporation of New York. Filed June 13, 1925. Serial No. 36,833. 2 Claims. (Cl. 240—52.)

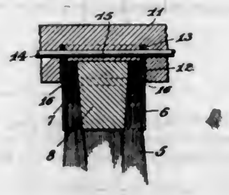


1. In lamp socket mechanism, a conduit for electric wires, elongated clamping holding means mounted on said conduit, an electric socket, a cylindrical stem for supporting said socket and adapted to be located between said holding means whereby to be both rotatably and axially adjustable between said holding means, said holding means having portions jointed together, and screw means disposed on the opposite side of said stem from said jointed portions for holding said holding means in gripping relationship with said stem.



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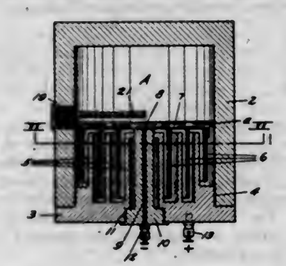
1,693,384. BRUSH. ALFRED V. HART, Westfield, N. J., and JOSEPH T. HART, Rockville Center, N. Y. Filed Mar. 23, 1927. Serial No. 177,485. 2 Claims. (Cl. 15—191.)



1. A brush comprising a ferrule having an internal shoulder, bristles engaged in said ferrule and a wedge block having its larger end toward the back end of the ferrule and arranged to crowd the end portions of the bristles over said internal shoulder, and a brush back having a socket for the ferrule with an annular groove at the back of said socket receiving the rim of the ferrule, said groove providing a central boss disposed in the end of the ferrule and engaging the butt end of the wedge block, and said boss within said annular groove providing a backing for the bristles and wedge block.

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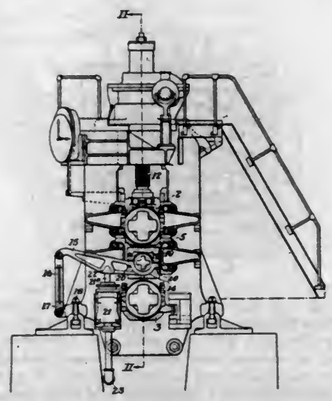
1,693,385. BATTERY. FREDERICK W. HOCHSTETTER, Pittsburgh, and WILLIAM BROAD, Mars, Pa., assignors, by mesne assignments, to said Frederick W. Hochstetter. Filed Jan. 21, 1926. Serial No. 82,680. 4 Claims. (Cl. 136—92.)



1. A reversible battery consisting of a cylindrical casing having a middle continuously empty space and adapted to contain a limited quantity of fluid electrolyte for a portion of its depth, a closure for one end of the casing having a series of concentrically arranged inwardly extending cylindrical walls of positive polarity, an alternating series of cylindrical walls of negative polarity spaced between said walls, each series having a common connecting portion, means for fixedly holding them in operative relation for partial or complete immersion in or complete withdrawal from the electrolyte, a gas relief conduit extending through the wall of the casing having an open ended inner terminal located in said middle continuously empty space, and an outer supporting plug mounted in the casing wall and provided with a fluid arresting trap cavity communicating with the gas conduit.

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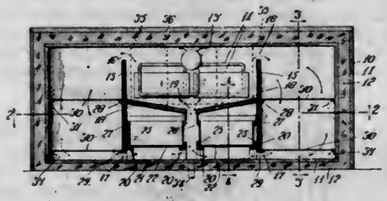
1,693,386. THREE-HIGH ROLLING MILL. LANE JOHNSON, Ingram, Pa., assignor to United Engineering and Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 26, 1924. Serial No. 752,310. 6 Claims. (Cl. 80—39.)



1. In a three-high rolling mill, means for supporting the middle roll, comprising a pair of levers at the opposite ends of said roll each having a bearing for one end of the roll thereon at the end thereof comprising a removable portion whereby the roll can be released from said bearings, each of said levers being pivoted for rocking movement in a vertical plane independently of the other, and means associated with each lever for actuating said levers to raise the middle roll and hold it in such position, substantially as described.

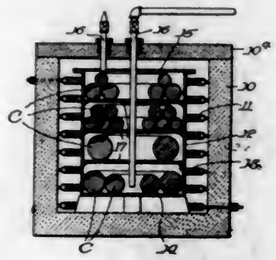
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1,693,387. REFRIGERATOR. CHARLES G. JUNEAU, deceased, Wauwatosa, Wis., by Anna K. Juneau, administratrix, Wauwatosa, Wis., and WALTER C. MARSHALL, Milwaukee, Wis. Filed May 25, 1928. Serial No. 280,537. 5 Claims. (Cl. 62—58.)



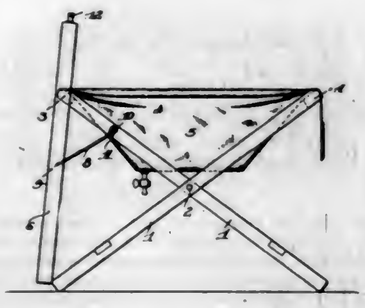
1. A combined refrigerator and kitchen counter comprising insulated top, bottom and side walls, insulated partition walls arranged in spaced relation extending from front wall to rear wall of the refrigerator and arranged to provide air passages at top and bottom thereof, said partition walls being each provided with opposing downwardly sloping baffles extending from front to rear of the refrigerator with the inner longitudinal edges in spaced relation to provide a downwardly disposed cold air passage therebetween, slide-ways secured adjacent to the lower ends of said partition walls and having air passages therebeneath, containers slidable on said slide-ways on each side of said cold air passage and disposed beneath said baffles, resilient plates extending from front to rear secured to the opposite faces of the partition walls and to the baffles, with their free longitudinal sides in contact with the adjacent sides of said containers so as to prevent passage of air across the tops of said containers, and a refrigerating medium, located above said baffles and intermediate of said partition walls.

1,693,388. HEAT-TREATMENT APPARATUS. GOTTLIEB KELLER, Brugg, Switzerland, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland, a Corporation of Switzerland. Filed June 11, 1927, Serial No. 198,092, and in Germany June 25, 1926. 1 Claim. (Cl. 266—5.)



In heat-treatment apparatus, an open-ended receptacle uprightly disposed with its open end uppermost, means providing a closure for said end, material-supporting shelves of heat-conductive material disposed in and extending transversely of said receptacle and being supported in heat-conductive engagement with the walls thereof and for removal from said receptacle by way of said open end and in spaced relationship with respect to each other to provide superimposed heating chambers in said receptacle, the shelves separating adjacent heating chambers being provided with openings providing communication between such chambers, and means common with respect to said chambers and operable to provide for admission of a non-oxidizing atmosphere into one of said chambers and for the flow of such atmosphere from said chamber into the remaining chambers by way of said communicating openings.

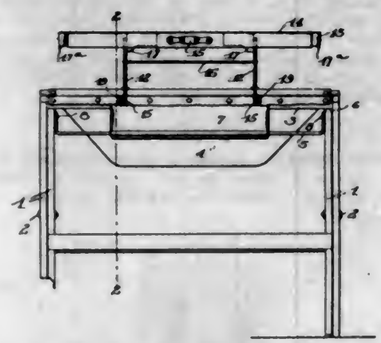
1,693,389. INFANT'S BATHTUB. DEWEY M. KENNEDY and BENJAMIN H. KENNEDY, Rochester, N. Y. Filed July 23, 1923. Serial No. 653,135. 8 Claims. (Cl. 4—177.)



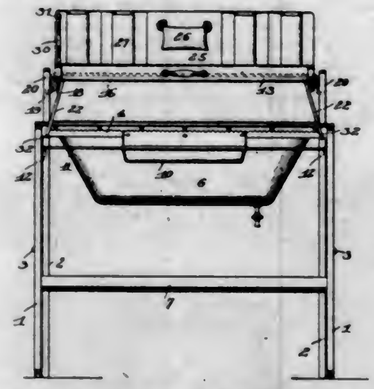
1. The combination with a support and a bath tub carried thereby, of an overlying flexible dressing table and links pivotally connected to the support and the dressing table respectively, adapting the latter to be swung both endwise and flatwise to an upright folded position at one side of the tub.

1,693,390. BATHING APPLIANCE. BENJAMIN H. KENNEDY and DEWEY M. KENNEDY, Rochester, N. Y. Filed July 23, 1923. Serial No. 653,136. 7 Claims. (Cl. 4—177.)

1. The combination with a support and a bath tub carried thereby, of a guide rod extending along one side of the tub and support, carriage blocks rotatable on the guide rod and a dressing table having sliding engagement with the carriage blocks adapting it to move between an operative horizontal position overlying the tub and a vertical inoperative position at one side of the latter.

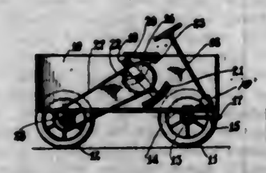


1,693,391. INFANT'S BATHING APPARATUS. BENJAMIN H. KENNEDY and DEWEY M. KENNEDY, Rochester, N. Y. Filed July 23, 1923. Serial No. 653,137. 9 Claims. (Cl. 4—177.)



1. The combination with a support and a bath tub carried thereby, of a dressing table having an operative position overlying the tub and a vertical folded position at one side thereof, one of said parts being provided with a swinging yoke and the other with a guideway with which the yoke cooperates to effect a combined sliding and pivotal movement of the dressing table from one position to the other.

1,693,392. TOY SPRING VEHICLE. LUKASZ KOLACZKOWSKI, Helmetta, N. J. Filed Jan. 20, 1928. Serial No. 248,044. 2 Claims. (Cl. 208—153.)



1. In a toy vehicle of the class described, a vehicle body, a pair of levers pivotally secured at one of their ends onto



the sides of the vehicle body, means for holding the other free ends of the levers in adjusted positions, a shaft rotatively mounted in the levers, the sides of the vehicle body being provided with arcuate slots into which the shaft projects, a crank formed on one end of the shaft and disposed on the outside of the vehicle, a gear attached to the shaft, and a chain connecting the gear with the vehicle wheels, whereby the tension of the said chain may be adjusted by a resetting of the said means for holding the free ends of the levers.

1,693,393. PLANT SUPPORT. CARLO LAPOLLA, New Canaan, Conn. Filed Oct. 5, 1927. Serial No. 224,105. 1 Claim. (Cl. 47—47.)



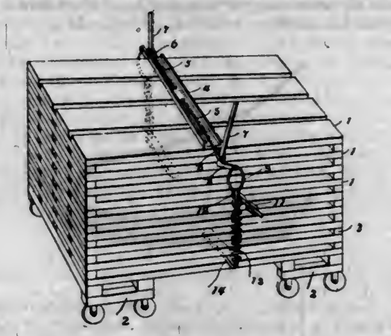
A plant support formed of a single piece of wire bent back upon itself at its middle point into parallel abutting relation to form a stake element, each of said parallel portions being at the top of the stake element bent outwards in opposite directions, then crossing one another and being, in a plane at right angles to said stake element, bent into semi-circular shape, the free ends of said semi-circular sections being in abutment, thereby forming a plant-engaging loop, the free ends of said semi-circular portions being adapted to recede from one another upon forcing said outwardly bent portions toward each other, a wire coil shiftable upon said stake element below the outwardly bent portions thereof, said wire coil when disposed immediately below said outwardly bent portions preventing accidental relative movement between the latter.

1,693,394. BRAKE-LINING COMPOSITION. ROBERT LAUGHLIN, Chicago, Ill., assignor to Brand Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 3, 1924. Serial No. 747,689. 2 Claims. (Cl. 134—17.)

1. A composition for brake linings, clutch members, and the like, comprising a mixture of the following ingredients: rubber sponge, linseed oil, crude paraffin wax, litharge, sulphur, hard wax tailings, rosin, calcium hydroxide, soft wax tailings or petroleum tailings.

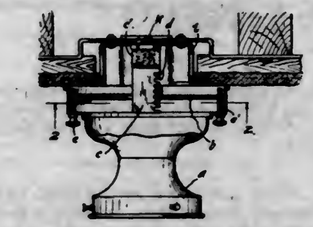
1,693,395. DEVICE TO PREVENT WARPING IN DRYING LUMBER. ESTHER J. LAWTON, Pine Ridge, Oreg. Filed July 27, 1926. Serial No. 125,271. 9 Claims. (Cl. 34—26.)

1. A device for resisting warping in flat stacked lumber while the same is drying comprising a beam to extend across and rest upon a pile of lumber to be supported solely thereby, anchoring bars manually engageable between lower



courses of a pile of lumber through the sides thereof, and means carried by the ends of the beam and the outer ends of the anchoring bars for applying pressure to the beam.

1,693,396. CANOPY OR FIXTURE SECURING DEVICE. GEORGE N. LITTLETON, Portland, Oreg. Filed Nov. 22, 1926. Serial No. 149,995. 4 Claims. (Cl. 240—85.)



3. In an outlet fixture the combination of an outlet box including a nipple, a flat pendent arm secured to said nipple and provided with a series of notches along one vertical edge, a ceiling flange, a bar arranged transversely therein, a slide mounted on said bar, said slide and said bar provided with slots adapted to receive said pendent arm, said slots registering in one position of said slide, whereby the movement of the ceiling flange sidewise will engage a notch of said pendent arm.

1,693,397. SHOE LAST. CHARLES MILLER, Long Island City, and MAX FEINSTEIN, Corona, N. Y.; said Feinstein assignor to said Miller. Filed Mar. 3, 1927. Serial No. 172,237. 2 Claims. (Cl. 12—133.)



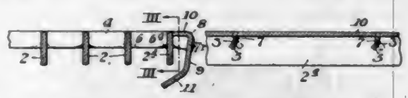
1. A last for shoes, the bottom of said last being provided with a pair of convex raised portions at the ball line of the last, said portions being spaced from each other in a direction transversely of the last, whereby a concavity is formed between said portions, a third convex raised portion formed on the bottom of said last and disposed at the toe portion thereof, and a uniformly inwardly curved arch formed between a point starting at said concavity and extending to said third convex portion.

1,693,398. THERAPEUTIC SHOE. CHARLES MILLER, Long Island City, and MAX FEINSTEIN, Corona, N. Y.; said Feinstein assignor to said Miller. Filed July 7, 1927. Serial No. 203,903. 3 Claims. (Cl. 36—71.)



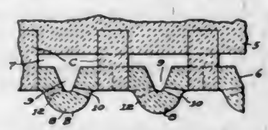
1. A shoe having an innersole, said innersole being provided with a concavity extending longitudinally thereof from a point at the ball line to the toe portion thereof.

1,693,399. GRATING STRUCTURE. HARRY NAGIN, Pittsburgh, Pa., assignor to Tri-Lok Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 19, 1926. Serial No. 130,139. 11 Claims. (Cl. 189—43.)



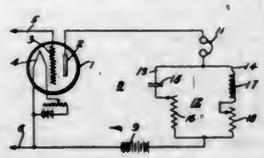
1. A grating having a nosing along one edge thereof, the nosing having a separate roughened tread member whose top surface is substantially flush with the tread surface of the grating.

1,693,400. FURNACE WALL AND BRICK THEREFOR. OSCAR NYGAARD, Saugus, Mass., assignor to Bernitz Furnace Appliance Company, Boston, Mass., a Corporation of Massachusetts. Filed July 16, 1925. Serial No. 44,030. 11 Claims. (Cl. 110—75.)



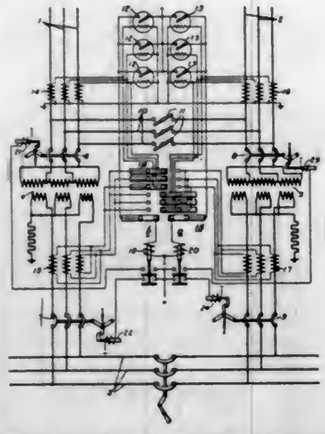
1. A furnace wall comprising a rear section and a vertically corrugated front section with an air space between said sections, and laterally directed holes leading from said air space through said front section to the front surface of the wall.

1,693,401. TELEPHONE CIRCUITS AND APPARATUS. ALEXANDER NYMAN, Wilkinsburg, and FRANK CONRAD, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 27, 1922. Serial No. 556,834. 2 Claims. (Cl. 179—1.)



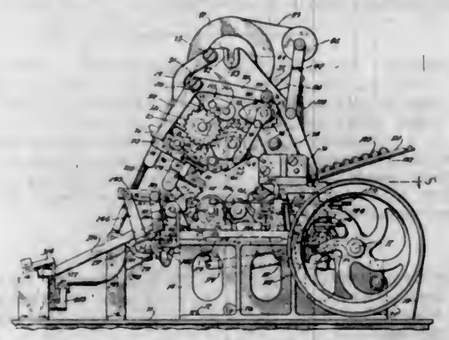
2. The combination with a telephone circuit, of a sound-wave translating device for interchanging energy between said circuit and sound waves, said device embodying a vibratory element having a natural frequency of vibration whereby the ratio of the interchange of energy is largely increased at frequencies approximating said natural frequency in accordance with a resonance curve, and a parallel-resonant circuit serially included in said telephone circuit, said parallel-resonant circuit comprising parallel-connected paths having inductive and capacitive reactances and resistance such as to produce a resonance curve substantially corresponding, in tuning and in sharpness of tuning, to the resonance curve of said sound-wave translating device, whereby the amplitudes of an electrical quantity in said telephone circuit and the amplitudes of the corresponding sound waves are substantially proportional for all frequencies within the range of the apparatus.

1,693,402. RELAY SYSTEM. ALFRED J. A. PETERSON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 27, 1925. Serial No. 18,893. 6 Claims. (Cl. 175—294.)



1. A system comprising a plurality of transmission circuits, a transformer in each of said circuits, differential means including relays for protecting said transformers, circuit-interrupters for altering the relation of said circuits and transformers, and means for altering the connections of said relays in accordance with the operation of said circuit-interrupters.

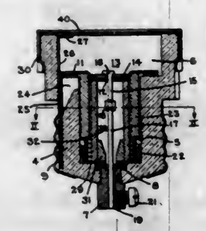
1,693,403. WRAPPING MACHINE. BRUNO RADTKE, Libertyville, Ill., assignor to Mills Novelty Company, Chicago, Ill., a Corporation of Illinois. Filed July 19, 1926. Serial No. 123,443. 39 Claims. (Cl. 93—3.)



1. A wrapping machine, comprising a support for the articles to be wrapped, means for positioning wrappers upon said support, means operating in timed relation to said last-mentioned means for depositing the articles to be wrapped upon said wrappers, means for folding the wrappers around said articles, and means for closing the packages thus formed including devices acting upon the ends of the wrappers in axial direction to tightly close said ends against the contents of the package, said last-mentioned means comprising successively acting closing elements movable as a unit toward and from the package.

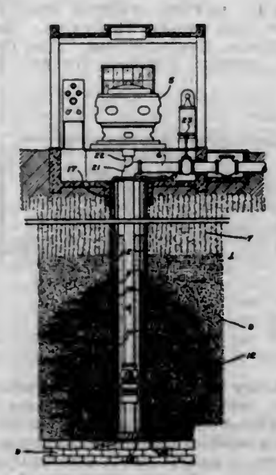


1,693,404. THERMAL CUT-OUT. MAURITS J. SANDIN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 23, 1923. Serial No. 614,381. 5 Claims. (Cl. 200—123.)



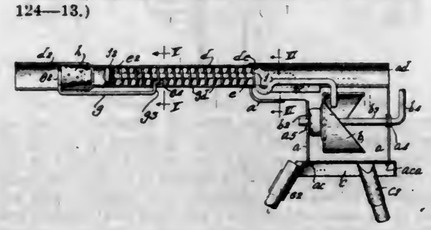
1. A cutout for electric circuits comprising a pair of relatively movable terminal members, biasing means tending to move said members apart, a casing for enclosing the terminal members and a composite renewable thermal-responsive element for conductively connecting the members and for releasably opposing said biasing means comprising a pair of heating conductors connected respectively to the terminal members and having their free ends releasably soldered to one another by a metal fusible at a relatively low temperature.

1,693,405. APPARATUS FOR CLEANING WELLS. JESSE H. SANFORD, Jr., Pittsburgh, Pa., assignor to Guaranteed Water Engineering Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1927. Serial No. 185,157. 1 Claim. (Cl. 166—1.)



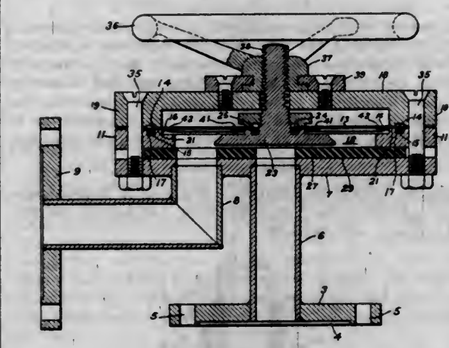
A well structure comprising a well pipe, pumping means disposed in the well pipe for drawing fluid from surrounding strata and discharging the fluid through the well pipe, a screen surrounding the well pipe, a flushing pipe outside the screen, the flushing pipe having a bottom terminal with a discharge orifice therein for restricting the end of the pipe and through which solid particles entering the pipe may be ejected, a plurality of jets in the pipe at intervals therealong for directing streams of fluid into said strata in a direction counter to the movement of fluid toward said well pipe and a filter disposed in the flushing pipe between a source of flushing fluid and the jets, the combined areas of the openings in the jets and the bottom terminal having a relation to the cross-sectional area of the flushing pipe such that fluid ejected from the several openings is maintained under pressure by a fluid head in the flushing pipe.

1,693,406. TOY MACHINE GUN. WILLIAM F. SCHMIDT, Wyandotte, Mich., assignor to All Metal Products Company, Wyandotte, Mich., a Corporation of Michigan. Filed Aug. 29, 1927. Serial No. 216,068. 2 Claims. (Cl. 124—13.)



1. In an apparatus of the kind described, a stamping having two complementary parts adapted to be bent to bring the edges of said parts together to form a casing and having registering apertures in said edges, a part of each of said apertures being in one edge and the other part in the other edge, and an operating part having a shaft, said shaft being engaged by the registering parts of said apertures, a base plate having apertures therein, and lugs extending from the other edges of said parts and engaging in the apertures in said base plate.

1,693,407. VACUUM VALVE FOR RECTIFIERS. ERROL B. SHAND, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1926. Serial No. 141,783. 3 Claims. (Cl. 251—31.)

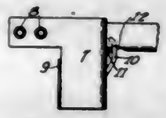


1. A substantially vacuum-tight valve comprising a metallic valve flange having a centrally disposed opening and a non-centrally disposed opening therein, metallic passageways communicating with said openings, respectively, a raised metallic flange disposed around the periphery of said flange, a flexible metallic diaphragm having its outer edge soldered to a point removed from the inner

edge of the top surface of said raised flange for making a vacuum-tight joint therewith, a valve cover-plate having a downwardly depending peripheral flange clamped tightly against said diaphragm to hold the same against the inner portion of the top surface of said raised flange to relieve said soldered joint from mechanical strains due to the vacuum and the flexing of the diaphragm, a centrally disposed valve-head carried by said diaphragm, a lining of yieldable material interposed between said valve-head and said flange and attached to one of the same for making a substantially vacuum-tight joint when the valve is closed, and an external valve-gear for moving said valve-head.

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1,693,408. SUPPORT FIXTURE FOR HANGINGS OR FOR CLOTHES HANGERS. LAURENCE A. SMITH, Kansas City, Mo. Filed Aug. 10, 1927. Serial No. 211,998. 4 Claims. (Cl. 156—23.)



4. In a device of the character described, a pair of telescoped channel shaped members forming a rod, one of said members having a line of apertures in its bottom, a tongue on one end of the other member adapted to project through any one of said apertures to produce toggle engagement between the members, each member being provided at its outer end with an aperture, and pressure contacting members arranged at the ends of the rod and each provided with a ledge to support the rod, and a tongue arranged on each pressure contacting member and engaging one of the apertures in the outer end of the rod for detachably connecting the rod to the pressure contacting members.

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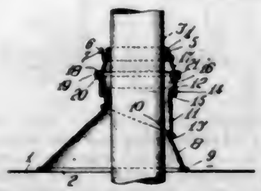
1,693,409. METHOD OF MAKING CUSHION SOLID TIRES. LEON N. SOUTHMAYD, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 18, 1923. Serial No. 632,810. 1 Claim. (Cl. 18—55.)



A method of making cushion solid tires, which comprises partially building the tire around a rigid core having an external projection preventing closing of the tire material around the core, partially vulcanizing the tire, removing the core, inserting a liquid-containing bag, completing the building of the tire, and completing the vulcanization of the tire while said bag is filled with liquid under pressure.

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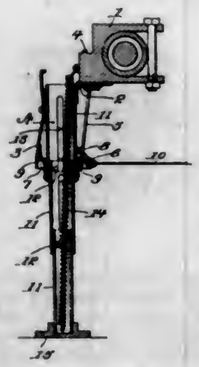
1,693,410. ROOF FLASHING. WILLIAM B. STEPHENSON, Chicago, Ill. Filed Mar. 19, 1928. Serial No. 262,742. 5 Claims. (Cl. 285—31.)



1. A roof flashing comprising a flat metal base plate adapted to be mounted on the roof, a soft metal collar adapted to be clamped about a pipe, and a sleeve connecting the plate and collar, the sleeve consisting of a plurality of annular sections, two of the sections overlapping so that they are capable of free telescopic movement one into the other, and a second connection between two of the sections permitting relative tilting movement between these members to accommodate different inclinations of the pipe with relation to the base plate.

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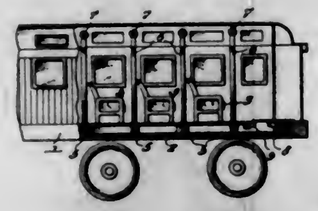
1,693,411. ADJUSTABLE POST FOR SUPPORTING AN AUTOMOBILE AXLE. MILTON C. SUPAN, Mineral, Calif. Filed Oct. 5, 1927. Serial No. 224,239. 1 Claim. (Cl. 248—41.)



A device of the class described comprising a clamp adapted to be fastened to an axle of a vehicle, a telescopic post hingedly connected with the clamp, means for holding the post in extended position, latch means for holding the post in inoperative and operative position and spring means for collapsing the post after the holding means are released and for moving the post to inoperative position after the latch means are released.

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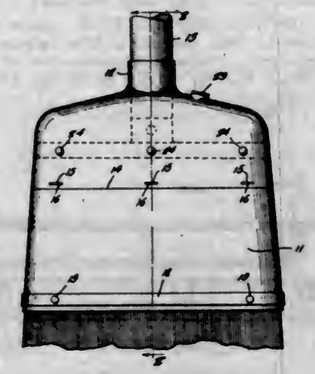
1,693,412. SAFETY DEVICE FOR PASSENGER COACHES AND OTHER VEHICLES. GEORGE WASHINGTON TAYLOR, Evansville, Ind. Filed Oct. 29, 1927. Serial No. 229,649. 3 Claims. (Cl. 105—345.)



1. In a safety device for passenger coaches and other vehicles, the combination with an enclosing coach body, of hangers located inside of the coach-body at the sides of the vehicle, a movable platform suspended by said hangers and having a passage-way or aisle and provided with seats for passengers, said hangers being adapted to swing and the platform to shift inside of, and in relation to, the enclosing coach-body in the direction of the length of the vehicle when the movement of the vehicle is arrested.



1,693,413. HOLDER FOR MOPS OR BROOMS. ROSCOE C. TARTAR, Liberty, Ky., assignor of one-third to Luther W. Sopp and one-third to James B. Allen, Liberty, Ky. Filed Oct. 13, 1926. Serial No. 141,378. 2 Claims. (Cl. 15—177.)



1. In a device of the character described, a hollow broom housing having a portion cut away on one side thereof, and having apertures adjacent an edge of the cut away portion, a section having fixed lugs adapted to be detachably connected in said apertures, a clamping band carried by said housing and adapted to hold the removable section in clamping position, and means interiorly of said housing and section for holding the fibers of a mop or the straw of a broom.

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1,693,414. GUN. CHARLES GORDON TOLLIVER, Jonben, W. Va. Filed Apr. 9, 1927. Serial No. 182,467. 1 Claim. (Cl. 124—14.)

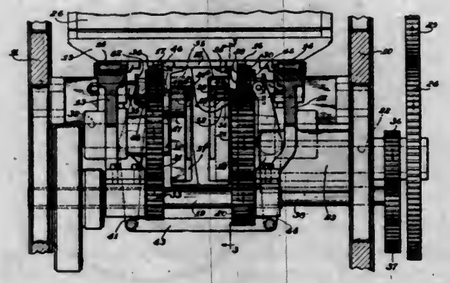


A gun, a firing pin slidably mounted within the barrel therefor, a plunger shaft carried by the firing pin being adapted for simultaneous movement therewith within an enlarged bore communicating with the gun barrel, a compression spring encircling the firing pin and having its ends disposed between one end of the plunger shaft and the intersections between the gun barrel and enlarged bore to check recoil action, arms obliquely disposed upon the barrel, an elastic band connected to the free ends of the arms and passed through an appropriate portion of the shaft, a trigger mechanism adapted to hold the firing pin against the tension of the elastic band and arms precedent to discharging a projectile from the gun barrel, and a spring pressed finger projected within the barrel being adapted to prevent accidental discharge of projectiles.

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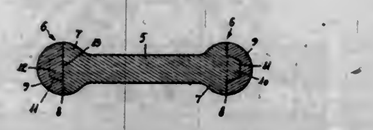
1,693,415. MECHANICAL MOVEMENT. BURT F. UPHAM, Brookline, Mass., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1925, Serial No. 75,160. Renewed June 9, 1928. 11 Claims. (Cl. 74—98.)

3. In a mechanical movement, a reciprocable body, a pair of rotary wrist-pins for effecting the reversing of the movement of said body at the ends of the travel of the latter, and reversing shoes carried by said body and co-operating with said wrist pins, each of said shoes being placed at an angle of less than 90° to the plane of reciprocation of said body, and being disposed mainly on that side of the longitudinal center of said body which is opposite to the end at which the reversal it effects occurs and to extend oppositely to the other in a direction transversely of the movement of said body.



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1,693,416. ROCKER BEARING. LESHER W. VAN BUSKIRK, Clinton, N. J. Filed Mar. 26, 1926. Serial No. 97,625. 7 Claims. (Cl. 308—21.)



1. A device of the character described comprising a toggle member having abutments at opposite ends, and removable semi-cylindrical wear pieces seated against said abutments, with their semi-cylindrical surfaces exposed to seat in bearings for rocking motion therein.

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1,693,417. FILTERING PROCESS. JUSTIN F. WAIT, New York, N. Y. Filed Dec. 21, 1922, Serial No. 608,346. Renewed May 18, 1928. 6 Claims. (Cl. 210—191.)

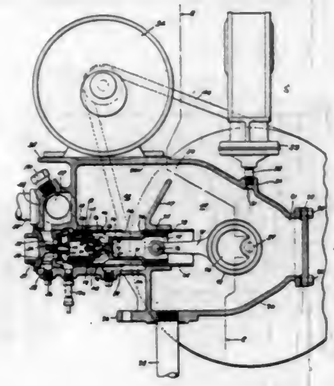
1. A method of filtering and also separating an organic component from an inorganic body in the filter cake, consisting in subjecting material in the filter to pressure of vapors of a volatile substance in which the organic component is soluble and removing the organic component by passing said vapors through the filter cake and subsequently recovering the materials passing through the cake.

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1,693,418. PUMP. CLARENCE WARNER, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed May 3, 1926. Serial No. 106,206. 12 Claims. (Cl. 103—178.)

1. A pump comprising, in combination, a container for receiving fluid under pressure, a cylinder associated with

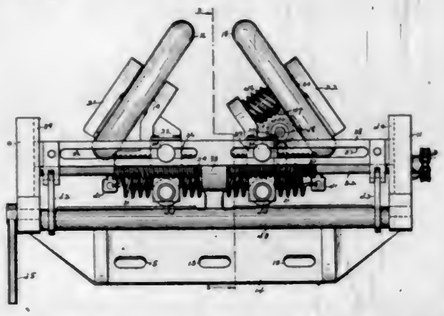
said container; a piston in said cylinder for forcing fluid into said container; a cross head in said container adapted



to be lubricated by the pumped fluid; means for connecting the piston and cross head, and means in said container for actuating said cross head.
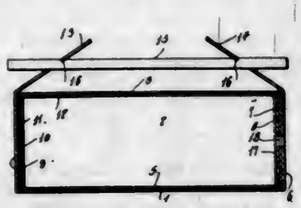
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1,693,419. TIRE-BUILDING MACHINE. GEORGE F. WIKLE, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 13, 1925. Serial No. 30,010. 8 Claims. (Cl. 154—10.)



1. A device of the character described comprising a pair of rolls adapted to be forced against the tread portion of a tire casing and means driven by the contact of said rolls and the casing to positively separate said rolls at a uniform rate.

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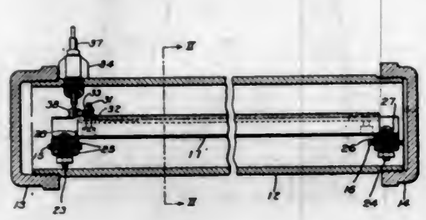
1,693,420. ICE-CREAM CONTAINER. KENTNER L. WILSON, Miller, S. Dak. Filed Nov. 11, 1926. Serial No. 147,739. 4 Claims. (Cl. 229—7.)



1. A container provided at one end with an opening, a follower arranged within the container at said end thereof, a stick for advancing the follower and adapted to be passed through said opening into contact with the follower, a closure for the other end of the container, and tabs carried by the container with which the stick is removably engaged to serve as a handle for the container.

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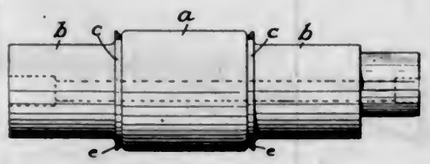
1,693,421. INCASED HEATING UNIT. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,730. 3 Claims. (Cl. 219—19.)



1. In an incased heater, the combination with a tubular metal casing, end closure members therefor, a heating unit within said casing and water-proof terminal members at one end of said casing, of a ground terminal member secured against said casing by said terminal members.

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1,693,422. ROLL AND PROCESS OF MAKING SAME. JAMES R. ADAMS, Hatboro, Pa. Filed Dec. 24, 1926. Serial No. 156,836. 9 Claims. (Cl. 80—58.)

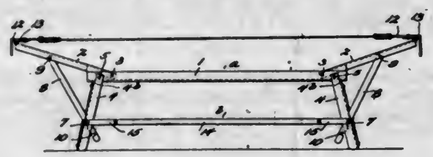


9. A roll for rolling metal comprising a hardened body having ends of a diameter less than the body joined to the body by a sloping portion, roll necks of a less diameter than the body, shouldered portions of less diameter than the body and of greater diameter than the necks and joining the ends of the body and necks, and shrunk-on rings of metal softer than the body embracing the shouldered portions and of a width substantially equal to the width of the shoulders and of a maximum outside diameter substantially equal to the diameter of the body, each ring having a face sloping from its maximum diameter towards the body of the roll and of a minimum outside diameter substantially equal to the minimum diameter of the end of the roll body, thus producing circumferential grooves of any desired cross section.

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1,693,423. FOLDING COT. FRANK A. ADKINS, Chicago, Ill., assignor to Champion Folding Furniture Company, Waukegan, Ill., a Corporation of Illinois. Filed June 15, 1926. Serial No. 116,232. 4 Claims. (Cl. 5—117.)

1. A folding cot comprising side rails and leg composed of channel bars, each side rail comprising a relatively long central section and two end sections pivoted within the central section near its ends, said central section having its channeled side facing upward and said end sections having their channeled sides facing downward when the cot is set up, the legs having forked ends pivoted externally to the end portions of the central section and having their channeled sides facing inward when the cot



is set up, said end sections adapted to fold within the central sections and the legs adapted to fold over the backs of the central sections, and ties connecting the legs associated with each side rail, each tie comprising a relatively long central section and pivotally connected end sections, the latter pivoted to the legs, said ties adapted to fold parallel with the legs and side rails.

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1,693,424. HEEL AND ARCH SUPPORT. HARRY H. AHERN, Newport News, Va. Filed Apr. 5, 1928. Serial No. 267,489. 3 Claims. (Cl. 36—71.)



1. In a device of the character stated, an upper plate and a lower plate having a contour to fit the rear portion of a shoe, said plates being secured together at their outer peripheral edges but spaced apart with respect to each other at their intermediate and rear portions, and a bottom spring secured to and extending rearwardly from the front portion of said bottom plate and having its free end adapted to bear upwardly thereagainst, there being aligning depressions for a heel in said upper and lower plates extending rearwardly from the free end of said spring.

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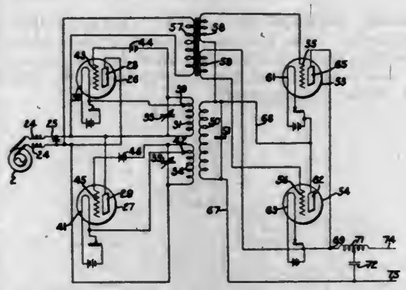
1,693,425. MICROPHONE. JOSEPH EUGENE AIKEN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,178. 6 Claims. (Cl. 179—131.)



1. A microphone comprising a diaphragm, stretching means and damping means therefor, a supporting frame cooperating with both thereof, resistor cups and granules supported thereby, positioned on opposite sides of said diaphragm and spaced therefrom by a distance less than the radius of said granules.



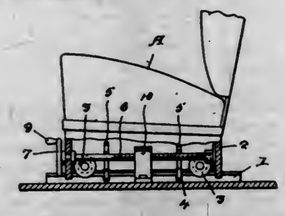
1,693,426. TRANSMISSION DEVICE. CHESTER T. ALLCUTT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 20, 1923. Serial No. 681,875. 4 Claims. (Cl. 171—97.)



4. The method of delivering power from an alternating current line which consists in generating high-frequency oscillations modulated at the frequency of said line, rectifying said oscillations and reversing the direction of rectification at each half-cycle of said line frequency.

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1,693,427. ADJUSTABLE SEAT. CARL A. ANDERSON, Irwin, Pa. Filed Dec. 29, 1926. Serial No. 157,848. 1 Claim. (Cl. 155—14.)



In a motor vehicle, a track connected with the floor thereof and formed of Z-shaped rails, a base for the driver's seat of the vehicle, hangers connected with the base, rollers at the lower ends of the hangers engaging under faces of the rails, flanged wheels carried by the base and engaging the upper faces of the rails with the flange engaging the inner edges of the rails, a screw shaft carried by the base and having one end extending through the front thereof, a bracket on the floor of the vehicle having a threaded hole therein through which the shaft passes and a handle on the outer end of the shaft for rotating the same.

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1,693,428. STOVEPIPE. ADEN R. ATTERBERY and IRA J. BLALOCK, Stapleton, Nebr., assignors of one-third to Clarence E. Mills, Stapleton, Nebr. Filed Mar. 10, 1927. Serial No. 174,175. 1 Claim. (Cl. 126—309.)

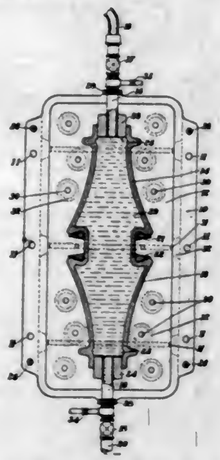


A stove pipe section longitudinally split, thereby forming adjacent edges, one of said edges being provided with an outwardly curved flange, said flange being formed by bending the material onto itself thereby forming a double thickness, the last named flange having an integral flange concentric with the pipe and engaging the inner side of the

pipe under the other edge thereof, said last named edge having an outwardly curved flange, said outwardly curved flange terminating in a rib, and a channeled member in which the rib and first mentioned flange is disposed.

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1,693,429. METHOD OF CASTING. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed July 2, 1926. Serial No. 120,090. 17 Claims. (Cl. 25—156.)



1. The method of casting comprising the steps of filling a mould of porous material with a ceramic ware slip, placing hydraulic pressure on the slip within the mould to facilitate passage of water from said slip to said mould, permitting a layer of ceramic material to be deposited on the inner wall of said mould, removing the slip from the mould, and filling the interior of the mould with a fluid under pressure to compress the deposited layer and render it more nearly uniform.

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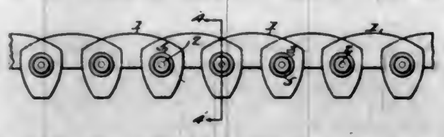
1,693,430. CASING FOR ELECTRICAL APPARATUS. ARTHUR O. AUSTIN, Barberton, Ohio, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 25, 1924. Serial No. 722,204. 4 Claims. (Cl. 220—85.)



1. In combination a housing, a conductor bushing extending through the top of said housing, a baffle forming a compartment surrounding said conductor bushing and providing an air pocket adjacent to the top of said housing outside of said compartment, a dielectric fluid disposed within said housing and sustained in said compartment by gas pressure within said pocket, a supplemental tank disposed outside of and below the top of said housing and having dielectric fluid therein, the surface level of which is below the surface level of the fluid in said housing, and a pipe opening into said air pocket and having one end thereof disposed below the liquid in said supplemental tank.

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1,693,431. DRIVE CHAIN. EDWARD F. BEHNING, Detroit, Mich., assignor to Diamond State Fibre Company, Bridgeport, Pa., a Corporation of Delaware. Filed Jan. 10, 1927. Serial No. 160,263. 1 Claim. (Cl. 74—64.)



A power chain comprising a plurality of links formed of a non-metallic material comprising a hardened synthetic resin, metallic pins for pivotally securing said links together, and sleeves interposed between the pins and the links and also composed of a non-metallic body comprising a hardened synthetic resin.

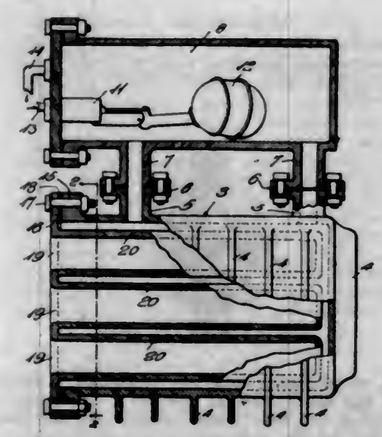
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1,693,432. THERAPEUTICALLY-ACTIVE AROMATIC COMPOUND CONTAINING MERCURY IN A LATERAL CHAIN AND PROCESS OF MAKING THE SAME. MAX BOCKMÜHL, Hochst-on-the-Main, and ADOLF SCHWARZ, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y., a Corporation of New York. Filed May 5, 1923, Serial No. 637,020, and in Germany May 12, 1922. 12 Claims. (Cl. 260—13.)

1. The process of preparing therapeutically active mercury compounds which comprises mercurating aromatic compounds which contain an unsaturated alkyl radical and a group which renders the aromatic compound water-soluble.

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1,693,433. REFRIGERATING UNIT. FORREST LE GRAND BRYANT, Johnson City, N. Y., assignor to Bryant Electric Refrigerator Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 11, 1927. Serial No. 212,253. 1 Claim. (Cl. 62—95.)

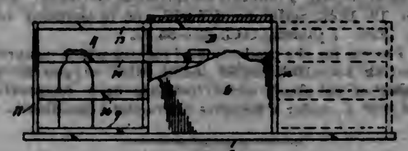


A refrigerating unit comprising an outer shell to contain a refrigerant, said shell being provided with external heat-conducting fins, with a nipple at its top for connection with a float tank, and with a removable front wall, the latter being formed with spaced openings through which to insert fluid-freezing pans, and a plurality of inner pan-receiving shells having open front ends integrally joined to said front wall and communicating with said openings, said pan-receiving shells being spaced from all other walls of said outer shell and from each other, permitting each inner shell to be substantially surrounded by the refrigerant.



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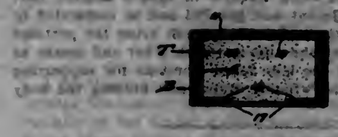
1,693,434. MILK-BOTTLE CONTAINER. TITO L. CAVALLI, Benicia, Calif. Filed May 19, 1927. Serial No. 192,383. 1 Claim. (Cl. 232—31.)



In a bottle holder a baseboard, sideboards secured to said baseboard, a topboard connecting said sideboards, a slidably crate-like structure positioned between said sideboards and slidable on said baseboard, said crate-like structure being of less length than said baseboard, the ends of said crate-like structure being of a length equal to the width of said baseboard, a division board positioned in said box-like structure, the ends of said end pieces projecting beyond the sides of said crate-like structure for the purpose of acting as stops when said crate-like structure is moved on said base-board.

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1,693,435. POWDER BOX. THOMAS J. CLARKE, Jamestown, N. Y. Filed Mar. 10, 1927. Serial No. 174,265. 2 Claims. (Cl. 229—3.)



1. In a powder box, an inner container comprising an inner frame consisting of opposed side and end walls connected in a powder-tight manner at the corners of the frame, an easily rendible top sheet extending over said frame and having integral flaps which extend downwardly against the outer faces of said side and end walls, and an outer frame surrounding said inner frame and flaps, said outer frame consisting of opposed side and end walls connected at the corners of the frame and having integral flaps at their lower edges which are turned inwardly under the lower edge of the inner frame and project horizontally inward from said inner frame; and an outer container snugly receiving said inner container, said outer container having a fixed bottom section co-operable with said horizontal flaps in forming the box bottom, and a removable cover giving access to said easily rendible top sheet.

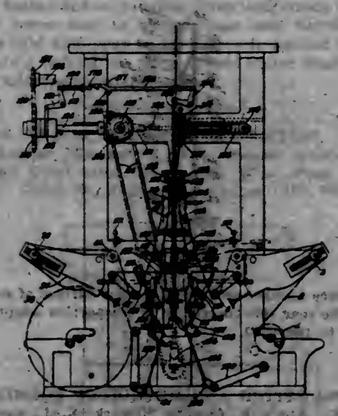
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1,693,436. WEB-REPLENISHING MECHANISM. CARL E. DRANGE, Plainfield, N. J., assignor to Isabella Scott and David J. Scott, executors of the estate of Walter Scott, deceased, doing business under the name of Walter Scott & Company, Plainfield, N. J. Filed Oct. 21, 1925. Serial No. 63,817. 20 Claims. (Cl. 242—58.)

1. The method of joining two webs of flexible material which consists in: accumulating a surplus in a replenishing



web to thereby start rotation of its web roll while holding the leading end of the web stationary, attaching an employed web to the leading end of the replenishing web, and then dissipating the surplus by gradually speeding up the leading end of the replenishing web.



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1,693,437. VALVE GRINDER. THOMAS J. FOGLEY and GEORGE O. LEOPOLD, Philadelphia, Pa., assignors to North Bro's M'f'g Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 12, 1926. Serial No. 128,794. 3 Claims. (Cl. 74—50.)



1. The combination in a valve-grinder, of a frame having bearings; a spindle and a shaft mounted in the bearings, the shaft being at right angles to the spindle; two bevel pinions loose on the spindle; a flanged spool loose on the spindle and located between the two bevel pinions; a bevel gear on the shaft meshing with the pinions; a cam on the shaft engaging and reciprocating the spool as the shaft is turned; a longitudinally movable key located in the spindle and moved longitudinally by the spool, the pinions having internal key-slots; and means for projecting the key to engage one or the other of the pinions, one end of the key having a longer dwell in its hub than the other key so that the spindle will be moved progressively forward as it is reciprocated.

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1,693,438. SANITARY WALL TILE. ALFRED GOODELL, Rockford, Ill. Filed Aug. 10, 1927. Serial No. 212,052. 6 Claims. (Cl. 189—85.)

1. A wall covering of the class described including a member embodying a substantially flat surface and parallel por-

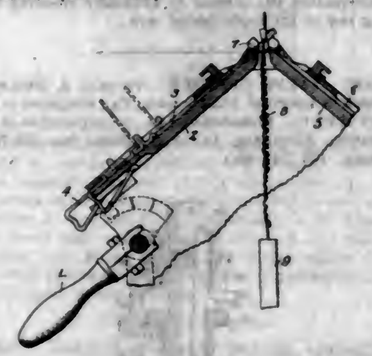
tions disposed to extend at right angles to said flat surface, certain of said parallel surfaces including securing means,



and a brace member secured to the flat surface of said member on the rear side thereof having a portion adapted to be secured to the wall.

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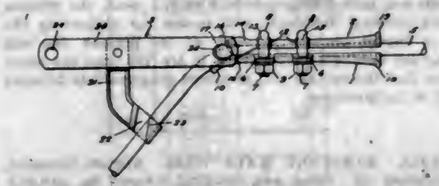
1,693,439. STITCH AND METHOD OF FORMING THE SAME. ALBIN F. GOETZE, Newark, N. J., assignor to Morgan Knitting Mills, Inc., Newark, N. J., a Corporation of New Jersey. Filed May 4, 1927. Serial No. 188,758. 3 Claims. (Cl. 66—69.)



2. The method of forming a stitch in knit fabric comprising knitting a piece of fabric on a flat machine continually racking the knitting machine during the knitting operation, permanently discarding certain needles on one side of the machine, forming and discarding at spaced intervals a row of loops on the side of the machine having said discarded needles, and subjecting the fabric to a weight acting longitudinally on the fabric until all of the loops are unravelled on the side where said loops have been discarded.

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1,693,440. ANCHOR CLAMP. KENT A. HAWLEY, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Apr. 20, 1927. Serial No. 185,249. 14 Claims. (Cl. 24—135.)



4. In a clamp of the character described, the combination of a pair of members adapted to receive a conductor between them, means for holding said members in clamping engagement with respect to the conductor, outwardly extending trunnions on one of the members, and links pivotally engaged with said trunnions, said trunnions being located substantially in line with the longitudinal axis of the conductor and having heads projecting beyond one side thereof, said links having openings to receive said heads and to be overlapped thereby upon relative longitudinal movement of the assembled clamping members with respect to the links.

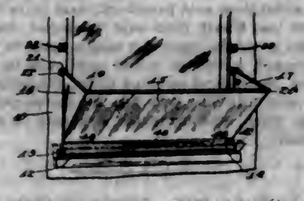
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1,693,441. PROCESS FOR THE PRODUCTION OF IODATES. FRIEDRICH AUGUST HENGLEIN, Cologne-Deutz, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Apr. 19, 1927, Serial No. 185,077, and in Germany June 23, 1926. 7 Claims. (Cl. 23—85.)

4. Process for the production of iodates which comprises contacting an alkali metal iodide with oxygen in the presence of an alkali metal hydroxid at a temperature above 100° C. under a pressure above one atmosphere.

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1,693,442. WINDOW VENTILATOR. GEORGE SAMUEL HENRITZY, Hazleton, Pa. Filed Jan. 6, 1923. Serial No. 611,059. 4 Claims. (Cl. 98—99.)



1. A ventilator for windows comprising a flexible body portion comprising a front and sides and a foldable frame for and secured to the respective parts of the body portion, the frame portions being foldable in such a manner that their axes are adjacent nad parallel and so correlated to the body portion that when folded will bring the portions of body portion flat and adjacent each other and means at the inner ends of the side frame portions for supporting the frame from the window casing and holding the body portion taut.

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1,693,443. LIGHTING FIXTURE AND THE LIKE. DONALD HOLT, Chicago, Ill. Filed May 23, 1927. Serial No. 193,555. 4 Claims. (Cl. 240—73.)



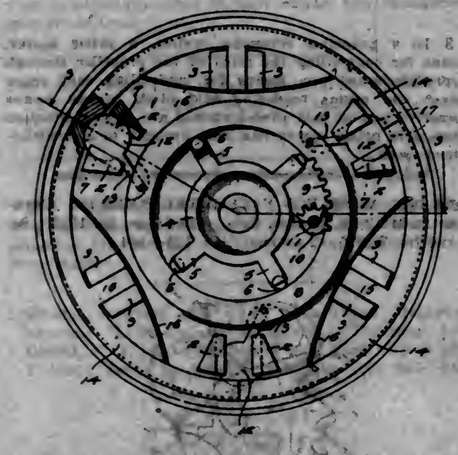
1. In a device of the class described the combination with a pedestal member, of a vertical pin pivotally mounted



and extending through the pedestal member, means for securing said pin in place while permitting free rotation thereof with respect to the pedestal member, the central portion of said pin being serrated, there being a transversely extending socket in the pedestal member having its inner end communicating with the serrated portion of said pin, a pin within said socket, a spring tending to force said pin inwardly against the vertical pin aforesaid, the inner end of said pin being relatively sharpened to engage the serrations aforesaid and thereby resist the rotation of the pin with respect to the pedestal while permitting such rotation under applied force of sufficient magnitude, a shoulder on said spring pressed pin, an abutment on the pedestal member serving as a stop for said shoulder to limit inward movement of the spring pressed pin, and suitable joint and extension members supported by the upper end of said pin, substantially as described.

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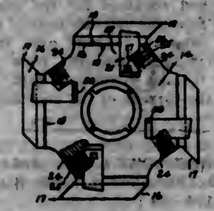
1,693,444. AUTOMOBILE FRICTION BRAKE. JESSE HOPKINS, Denver, Colo. Filed Oct. 13, 1927. Serial No. 226,012. 1 Claim. (Cl. 188—78.)



A friction brake comprising a frame, a ring mounted for turning movement thereon, shoes mounted for movement radially of the frame, guides for directing the movement of the shoes, springs disposed transversely of said guides and connected with the shoes, said shoes being provided at their ends with grooves, grooved lugs mounted upon the frame, disks mounted for sliding and turning movement in the grooves of the lugs and having portions entering the grooves of the shoes and arms carried by the disks and pivotally connected with the ring.

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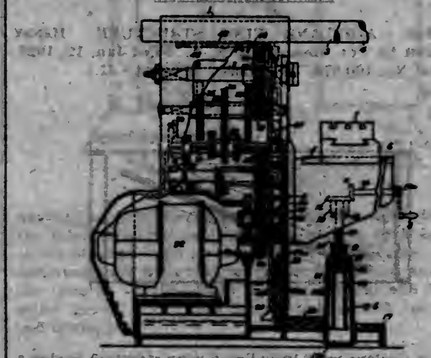
1,693,445. CUTTER HEAD. WINSLOW JONES, Seattle, Wash. Filed Jan. 24, 1927. Serial No. 163,190. 4 Claims. (Cl. 144—224.)



1. A cutter head embodying a face; an aperture in said face located in close proximity to the forward edge of said face; a clamping means operatively disposed in said aperture having a bevelled seat; a knife; a clamping screw hole in said clamping head beneath the cutting edge of said knife; and a clamping screw operatively disposed in said screw hole to bear against said bevelled seat, whereby said knife may be held securely against said face and operate to hold the parts of said cutter head on each side of said aperture together.

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1,693,446. MACHINE-TOOL ORGANIZATION. EDWARD J. KEARNEY, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis. Filed Feb. 17, 1926. Serial No. 88,874. 10 Claims. (Cl. 90—11.)

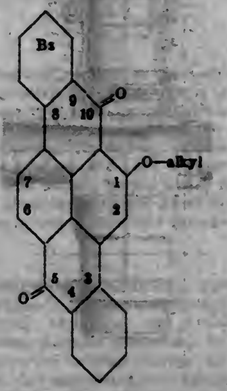


1. In a machine tool, the combination of a hollow column, a knee vertically movable thereon, an elevating screw projecting downwardly from said knee, a nut in threaded engagement with said screw and fixed with said column and means for lubricating said nut including a lubricant channel communicating with the interior of said hollow column.

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1,693,447. DERIVATIVES OF DIBENZPYRENEQUINONE AND PROCESS OF PREPARING THE SAME. GEORG KRÄNZLEIN, KARL ZAHN, PAUL OCHWAT, and MARTIN CORELL, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 28, 1926, Serial No. 157,609, and in Germany Dec. 30, 1925. 22 Claims. (Cl. 260—61.)

17. As new products, compounds of the following formula:

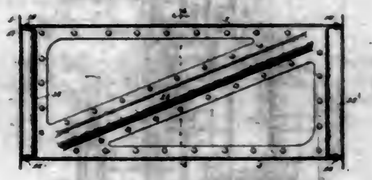



wherein the hydrogen atoms of the Bs-nucleus may be substituted, said compounds being rather difficultly soluble in organic solvents to a yellowish-brown solution in concentrated sulfuric acid to a bluish-red solution, and giving cherry-red vats which dye cotton fast yellow tints.

1,693,448. PRODUCTION OF METALLIC COMPOUNDS OF DYESTUFFS. HANS KRZIKALLA, Mannheim, and WERNER MÜLLER, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 1, 1927, Serial No. 180,334, and in Germany June 15, 1926. 8 Claims. (Cl. 260—12.)

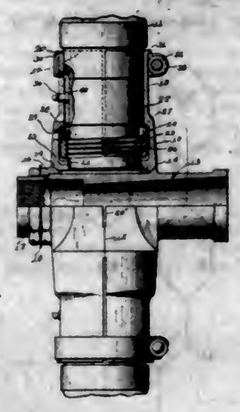
1. The process of producing metallic compounds of such dyestuffs as are difficultly soluble in water which consists in treating such a dyestuff with an aqueous solution of a metallic compound capable of reacting therewith in the presence of an organic solvent capable of dissolving the dyestuff and miscible with water.

1,693,449. AIRPLANE-WING STRUCTURE. HENRY JOSEPH LE PUL, Hempstead, N. Y. Filed Jan. 12, 1927. Serial No. 160,676. 4 Claims. (Cl. 244—31.)



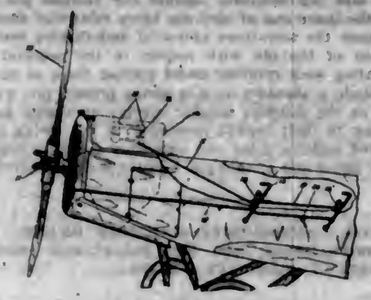
1. An airplane wing including a wing structure having a plurality of connected sections, each of said sections comprising an outer covering structure, end plates and a plurality of interior braces, each of the interior braces including a pair of identically formed bracing members, means for securing said members together, each of said members presenting a rectangular frame having a flange at the top and bottom, and a diagonal bracing web formed with a pressed out stiffening member.

1,693,450. AIRCRAFT PROPELLER. ERNEST G. MCCAULEY, Dayton, Ohio. Filed Jan. 30, 1925. Serial No. 5,837. 31 Claims. (Cl. 170—162.)



1. In a propeller, a hub having a blade socket for receiving the end of a propeller blade, the inner walls of said socket being provided with a recess for receiving an abutment member therein, said member providing means for balancing said propeller.

1,693,451. PROPELLER-CONTROL MECHANISM FOR REVERSIBLE OR ADJUSTABLE PITCH PROPELLERS. ERNEST G. MCCAULEY and FRANK W. CALDWELL, Dayton, Ohio; said Caldwell assignor to Standard Steel Propeller Company, a Corporation of Delaware. Filed Oct. 7, 1922. Serial No. 593,023. 18 Claims. (Cl. 244—25.)



3. In a propeller reversing system, a prime mover, means for controlling the pitch of the propeller through a predetermined arc, means for controlling said prime mover and means rendering said pitch control means operative beyond said predetermined arc in one direction when said prime mover has been brought to a predetermined speed.

1,693,452. MASK FOR FACIAL TREATMENTS. CATHARINE MCCUNE, Denver, Colo. Filed Nov. 28, 1925. Serial No. 71,925. 2 Claims. (Cl. 128—164.)

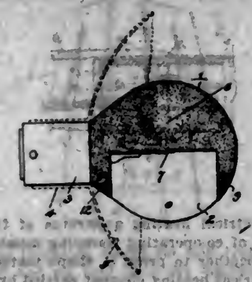


1. A mask for facial treatment comprising a body portion consisting of a single piece of porous closely woven, smooth, thin, textile fabric possessing an elastic characteristic and formed with a chin receiving pocket, an inset neck covering part, a bridge piece providing a nose covering part, a part for covering the forehead and temples, a pair of cheek covering parts provided with openings for the passage of the ears, a bridge piece providing a covering for the upper lip, said mask having separate openings for the mouth and nose and openings for the eyes, tongues extending upwardly from the extreme ends of the temple covering parts and adapted to pass over the top of the head, tongues extending rearwardly from the cheek covering parts and tongues connected with and extending rearwardly from the corners of the neck covering part.

1,693,453. INCANDESCENT LAMP. FRANK C. MCELROY, Columbus, Ohio. Filed Nov. 4, 1925. Serial No. 66,871. 1 Claim. (Cl. 176—34.)

As a new article of manufacture, an incandescent lamp having the glass bulb portion thereof formed to provide transparent and substantially translucent zones, said translucent zone extending over substantially one-half of the full area of the bulb, the major length of the edges of said translucent zone being situated in a plane co-extensive with the major longitudinal axis of the lamp, said translucent zone being extended to completely surround





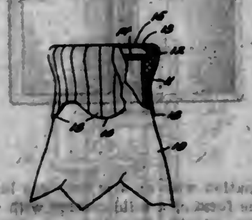
the rear portion of the glass bulb of the lamp where the latter is joined at the lamp base, and the forward portion of said transparent zone being extended to cover an area substantially equal to that of the rear translucent area of the lamp.

1,693,454. PENCIL. MARVIN E. MCGILL, Madison, Ga. Filed Mar. 22, 1928. Serial No. 263,837. 4 Claims. (Cl. 120—83.)



1. A pencil comprising a lead and a surrounding casing of a substance maintaining its rigidity under body temperatures but melting readily upon the application of flame thereto.

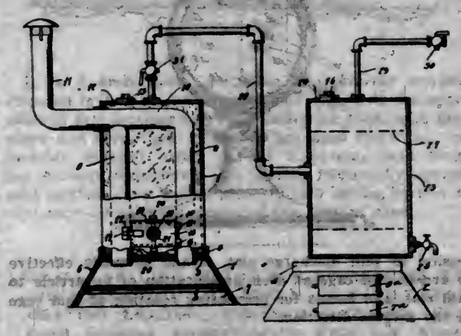
1,693,455. COVER-ALL CAP. ALEXANDER MELDRUM, Syracuse, N. Y., assignor to Smith-Lee Company, Inc., Oneida, N. Y., a Corporation of New York. Filed Apr. 1, 1926. Serial No. 99,149. 4 Claims. (Cl. 215—38.)



1. A bottle closure adapted for use by covering the mouth of a bottle and being plaited into a skirt around the neck thereof, and comprising a substantially flat blank of pliable and nonrigid paper-like material of considerable tensile strength, an adhesive applied to said blank on the inner surface of the intended plaits only, on parts of the blank which are to be positioned below the mouth of the bottle, said adhesive being of such character and quantity as to cause adherence of the plaits to, in and of themselves, produce an operative binding and sealing tion, in the skirt of the applied cap, around the bottle neck without reliance upon rigidity of the paper or its adherence to the bottle neck.

1,693,456. APPARATUS FOR EXTRACTING GAS AND OIL FROM WASTE. ALEXIS NASSE, Detroit, Mich. Filed Oct. 7, 1926. Serial No. 140,127. 1 Claim. (Cl. 202—6.)

An apparatus of the character set forth, comprising a vertical retort, a hollow base for the retort and having a combustion chamber, a flue arranged horizontally within the upper end of the retort, the flue being spaced from the top of the retort and passing through a side thereof, a smoke stack extending from the outer end of the flue, flues arranged vertically within the retort and communicating at their upper ends with the horizontal flue and



having their lower ends extended through the bottom of the retort into the combustion chamber, a tank adapted to contain water and provided with a valved outlet, a pipe communicating with the upper end of the retort and with the tank at about midway between the top and bottom walls thereof, and a pipe communicating with the upper end of the tank.

1,693,457. SHADE RAISER. GAETANO PAGANO, Brooklyn, N. Y., assignor of one-fifth to Gaetano Sofia and one-fifth to Salvatore Straziare, Brooklyn, N. Y. Filed Mar. 4, 1927. Serial No. 172,758. 1 Claim. (Cl. 156—28.)



A shade raising and lowering device comprising a bracket adapted to be mounted upon a supporting structure, spaced shade roller bearing plates on said bracket, a sprocket wheel adapted to be fixed to a shade roller and interposed between said bearing plates, an endless chain engaging said sprocket wheel with one lead of the same disposed between said bearing plates, and a roller journalled in said bracket above said sprocket wheel to space the other lead of said chain away from said sprocket wheel.

1,693,458. DISPENSING CABINET. BENJAMIN G. PATTERSON, Oklahoma City, Okla. Filed Apr. 29, 1927. Serial No. 187,541. 13 Claims. (Cl. 312—73.)

1. A dispensing machine comprising in combination a stationary cylindrical casing having a discharge slot therein, a base for supporting the casing in horizontal position, a cylindrical dispensing cage concentrically and rotatably mounted within said casing, means for storing in bulk within said cage the articles to be dispensed, means cooperating with said cage and cylindrical casing

as said cage is rotated to select and transport a succession of stored articles in units of a predetermined number up and around the casing and to present them in succession to said discharge slot, means normally effective to arrest said cage at each presentation of an article to said slot, and means for preventing rotation of said cage in the reverse direction.



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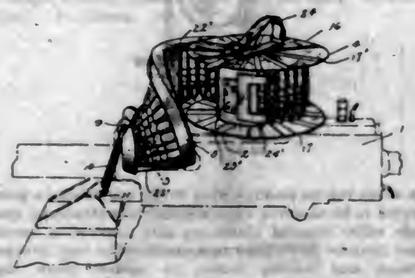
1,693,459. HOSE-NOZZLE GUARD. CHARLES L. PAULUS and ROBERT KAUCH, Dayton, Ohio. Filed Mar. 5, 1925. Serial No. 13,408. 3 Claims. (Cl. 221—100.)



1. In combination with a hose having a discharge nozzle, a guard in the form of a wheel mounted on and surrounding said nozzle to maintain the nozzle above the plane of said hose when the hose is laid down or dropped.

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1,693,460. AMMUNITION-FEED MECHANISM FOR MACHINE GUNS. CHARLES L. PAULUS, Dayton, Ohio, and ROBERT KAUCH, U. S. Army. Filed Aug. 2, 1926. Serial No. 126,593. 15 Claims. (Cl. 89—33.)



1. The combination, in an ammunition feed mechanism for a gun having a gun cover of a spiral ammunition guideway and a rotary ammunition holder mounted upon the gun cover.

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1,693,461. PROCESS FOR THE PRODUCTION OF THE CONDENSATION PRODUCTS OF PHENOLS WITH ALDEHYDES. GRIGORI PETROFF, Moscow, Union of Soviet Socialist Republics. Filed Apr. 23, 1927, Serial No. 186,182, and in Union of Soviet Socialist Republics Dec. 20, 1926. 2 Claims. (Cl. 260—4.)

1. In the process of preparing phenol-formaldehyde condensation products, the step which comprises condensing a phenol with formaldehyde in the presence of the sodium salt of toluene-sulphone-chloramide.

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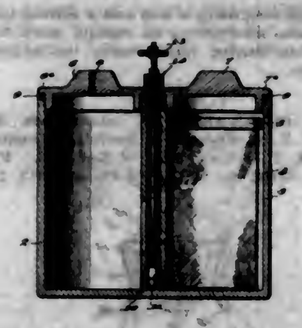
1,693,462. WAVING IRON FOR HAIR. JOHN P. POLNASZEK, Minneapolis, Minn., assignor of one-half to Peter Strsok, Minneapolis, Minn. Filed May 28, 1927. Serial No. 194,969. 6 Claims. (Cl. 219—24.)



6. In an electrical heating apparatus of the class described, a pair of co-operating clamping members adapted to be moved together to press in shape material therebetween, an electrical heating element carried by one of said members and adapted to be connected to a source of electricity, a switch carried by one of said members, means for holding said switch in closed position when said clamping members are disposed in spaced relation, whereby said members will be heated, and means for automatically opening said switch when said clamping members are moved together, the residual heat of said clamping members being sufficient to press and form said material.

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1,693,463. CARBIDE LAMP. WALTER PROCKTER, Huntington, W. Va. Filed Jan. 8, 1927. Serial No. 159,956. 1 Claim. (Cl. 48—35.)



The combination with an acetylene gas lamp, of a body member in the form of a solid casting with upright closed chambers arranged side by side to provide a water container and a carbide holder, a conduit connecting the lower ends of said chambers, a valve for controlling said conduit, a stem attached to said valve and extending upwardly between said chambers through the top of said casting, a foraminous carbide basket mounted in said carbide holder, a gas chamber formed in said casting with a passage connecting it with the carbide chamber, filtering material located in said gas chamber at the entrance of said passage, and a burner connected with said gas chamber.

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1,693,464. CONVERTIBLE GARMENT. ROY J. QUANTZ, Pittsburgh, Pa. Filed Feb. 12, 1927. Serial No. 167,792. 1 Claim. (Cl. 2—86.)

A convertible garment comprising a body open at the front and having an opening at the back extending from the bottom thereof to a point adjacent the middle thereof, said last named opening dividing the lower portion of the garment into side portions, means on the edges of said side portions for connecting them together to form legs, a crotch piece in the shape of an equilateral diamond shaped quadrilateral normally folded double when worn



as a coat and fastening means on said crotch piece edges when opened and on said body for connecting the same together in the crotch of the garment.

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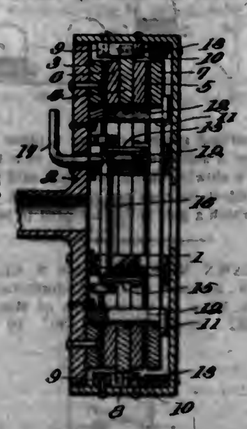
1,693,465. METHOD OF SECURING RAILWAY RAILS TO THEIR SUPPORTS. PAUL RAMY, Brussels, Belgium. Filed Aug. 20, 1924, Serial No. 733,178, and in Belgium Aug. 27, 1923. 4 Claims. (Cl. 238—311.)



1. A method of securing rails to their sleepers consisting in rigidly securing each rail at independent points in its central part to a series of sleepers whereby the creeping pressure is distributed over a large surface of ballast and in slidably securing the ends of each rail by ordinary means to the other sleepers.

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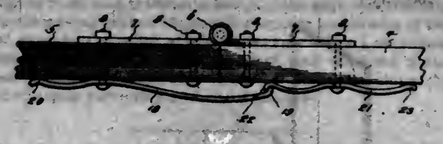
1,693,466. VEHICLE BRAKE. HENRY W. RODENBECK, Pasadena, Calif. Filed June 24, 1926. Serial No. 118,858. 1 Claim. (Cl. 188—72.)



In a vehicle brake, an axle housing having a braking surface, a brake drum cooperating with said housing to form a brake casing, a friction disc, a braking disc, said friction and said braking discs being rotatably and axially movable within said casing, combined guides and stops for the friction disc secured to the brake drum, combined guides and stops for the braking disc secured to the axle housing, and means for holding said braking and friction discs against said stops when in inoperative position.

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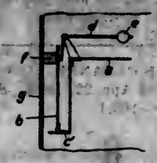
1,693,467. HARROW DRAWBAR. GEORGE W. SCHULZ, Clark, S. Dak. Filed July 21, 1927. Serial No. 207,416. 5 Claims. (Cl. 55—84.)



5. In a draft device including two drawbar sections disposed in end to end relation, and means at the upper sides of said sections hingedly connecting them with each other and permitting folding of one upon the other; releasably engaged spring devices underlying said drawbar sections respectively and bearing frictionally against said sections, and means pivoting said spring devices to said draw-bar sections respectively on vertical axes.

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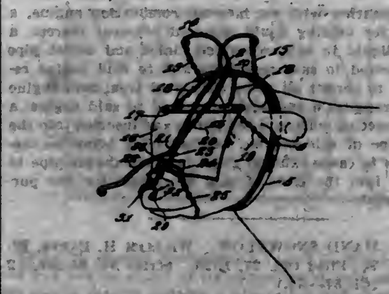
1,693,468. SEALING PISTON FOR RESERVOIRS FOR THE STORAGE OF GAS, STEAM, OR EASILY-EVAPORATING LIQUIDS. FRIEDRICH SCHÜRMANN, Dortmund, Germany, assignor to the Firm Aug. Klonee, Dortmund, Germany. Filed Jan. 5, 1927, Serial No. 159,230, and in Germany Jan. 6, 1926. 9 Claims. (Cl. 220—26.)



1. In a sealing-piston for reservoirs for the storage of gas, steam or easily evaporating liquids a packing ring, a closed flexible and dilatable sheet-metal ring the parts of which are tightly connected to one another, said sheet metal ring supporting said packing ring and means for pressing said packing ring against the walls of the reservoir.

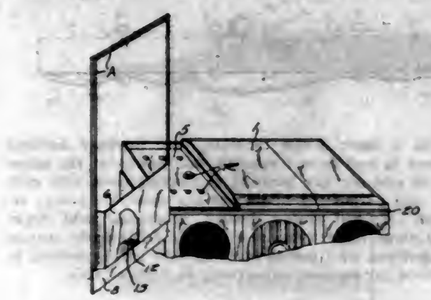
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1,693,469. POKE. CORTE JUDSON SPENCER, Dundee, N. Y. Filed May 11, 1927. Serial No. 190,610. 3 Claims. (Cl. 119—142.)



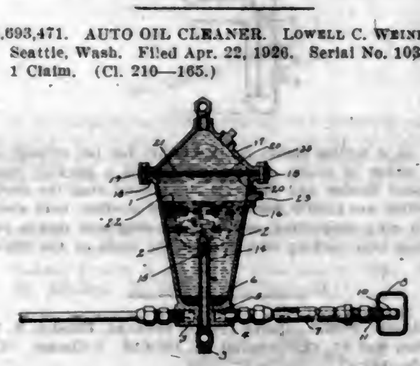
1. An animal poke, including a collar, a blinder for the eyes of the animal flexibly and adjustably supported by the collar, an angle rod having its inner arm comparatively short and formed with a lateral extension which rests against the face of the animal, and further provided with an offset eye, a nose ring for the animal, a flexible connection between the eye and the nose ring, the outer arm of the rod being out of contact with the animal and extended beyond the mouth of the animal, oppositely arched rods supported from the collar and arranged over the horns of the animal, and flexible means connecting said arched rods with the angle rod.

1,693,470. RADIO RECEIVING CABINET. ADOLPH A. THOMAS, New York, N. Y. Filed Feb. 2, 1924, Serial No. 690,116. Renewed July 19, 1928. 20 Claims. (Cl. 250—33.)



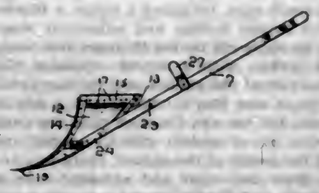
5. A radio cabinet having a molding along the outer top edge thereof and normally arranged in a horizontal position on the cabinet as part of its outer structure, said cabinet having a compartment for a radio set, means for adjustably mounting said molding on the cabinet in such a way that the molding may be raised into vertical position and then swung horizontally without projecting over said compartment in any of its vertical positions, and a receiving antenna in said molding.

1,693,471. AUTO OIL CLEANER. LOWELL C. WEINBERG, Seattle, Wash. Filed Apr. 22, 1926. Serial No. 103,786. 1 Claim. (Cl. 210—165.)



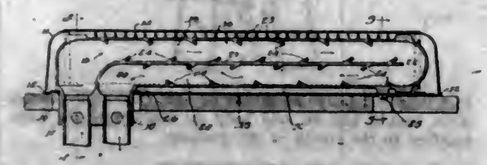
In combination with an internal combustion engine, a receptacle for holding liquid mounted adjacent thereto, a cleansing liquid in said receptacle, inlet and outlet pipe lines connected to said receptacle and to said engine respectively, to permit oil to be circulated from said engine thru said receptacle and again returned to said engine, a deflector coacting with said receptacle and inserted into the exhaust pipe of said engine, said deflector being so constructed as to cause exhaust gases in said exhaust pipe to be carried into the base of said receptacle for the purpose set forth.

1,693,472. HAND SNOWPLOW. WILLIAM H. BATTY, Elmira, N. Y. Filed Oct. 27, 1925. Serial No. 65,249. 2 Claims. (Cl. 37—53.)



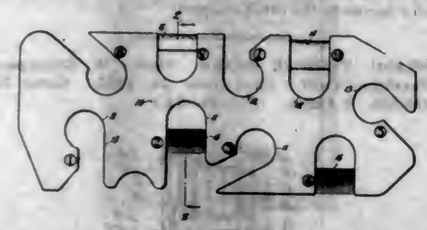
1. A hand snow plow including a plow element having the front face thereof curved from front to rear throughout its entire area, the curvature of one side of the face being greater than that of the other and the medial portion presenting in vertical section throughout the width thereof, a series of constantly diminishing curves, whereby to cause the snow to be deflected to the side of the plow element, a plurality of independently removable and replaceable spacing lugs carried by the ground engaging portions of the plow element, and a handle carried by said plow element.

1,693,473. AUTOMOBILE HEATER. THOMAS BOVEY, Chicago, Ill. Filed Sept. 18, 1924. Serial No. 738,544. 2 Claims. (Cl. 257—136.)



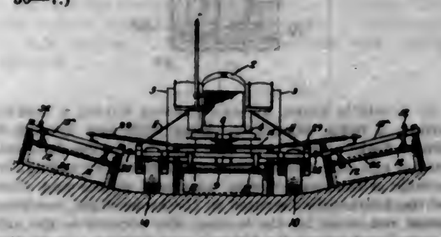
2. An automobile heater comprising a casing consisting of sheet-metal concavo-convex ends and a perforated shell connecting said ends and supported thereby whereby to space the casing from the floor, a longitudinally extending radiator enclosed within said casing having inlet and outlet passageways extending therethrough, stubs connected to the respective passageways and passing through the floor of the automobile, and a plate to which underneath portions of the radiator are secured, said plate having a slightly raised portion whereby to provide an insulating air space above the floor.

1,693,474. GAME APPARATUS. FREDERICK LELAND BURT, Weehawken, N. J. Filed Nov. 28, 1927. Serial No. 236,244. 4 Claims. (Cl. 273—36.)



1. A golf putting game including a plate adapted to be laid flatly upon a suitable surface and of a thickness sufficient to block a slowly rolling golf ball, said plate having a plurality of object notches cut in different edges defining pockets into which a golf ball is adapted to be putted.

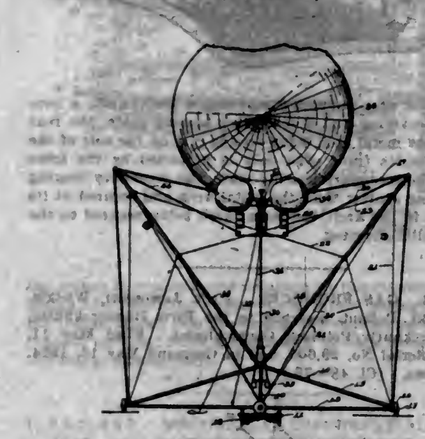
1,693,475. LAWN MOWER. JOHN S. CLAPPER, Minneapolis, Minn., assignor to Toro Manufacturing Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Nov. 7, 1921. Serial No. 513,530. 10 Claims. (Cl. 56—7.)



1. A tractor having a forwardly projecting frame, a section having supporting wheels and a pivotal connection with said projecting frame to form a truck therefor, sections having hinged connections with the ends of said truck section for following an incline when said truck section is running on level ground, mowing reels connected with said sections, and said end sections being readily removable from said truck section.



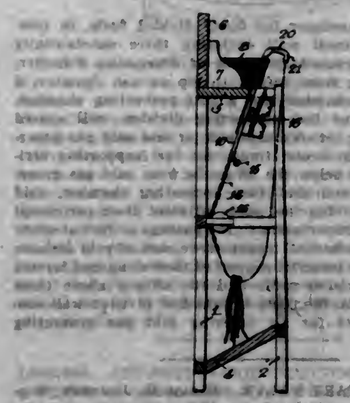
1,693,476. AIRSHIP MOORING MAST. MATT Q. CORBETT, Dayton, Ohio. Filed Apr. 24, 1925. Serial No. 25,686. 14 Claims. (Cl. 244—2.)



1. A mooring mast for airships comprising a support, a swing therein, means for attaching an airship thereto, and buffer means rotatably mounted on said swing to cushion the ship's hull on said swing from movement relative thereto.

13. A portable mooring mast for lighter-than-air craft comprising a unitary movable support, a swing therein, buffer means rotatably and centrally mounted on said swing providing a cushion for said craft and means interconnecting said buffer means serving to attach said craft to said swing.

1,693,477. TOWEL RACK. GEORGE E. COLLINS, St. Louis, Mo. Filed Dec. 10, 1925. Serial No. 74,587. 6 Claims. (Cl. 312—37.)



1. A towel retaining member for a rack of the class described comprising a bar adapted to pass freely through a towel grommet and having a main portion and a portion extending transversely thereof, there being a downwardly facing shoulder on one edge of said main portion spaced slightly from said transverse portion, the edge opposite said shoulder being curved about said shoulder lengthwise of the bar whereby the width of said bar is kept below a maximum dimension so that a towel grommet may be tilted about said shoulder as a pivot and moved therefrom along the transversely extending portion of the bar.

1,693,478. PIPE CLAMP. MARVIN B. DAVIS, Kansas City, Mo., assignor to George Krell, Sapulpa, Okla. Filed Aug. 21, 1925. Serial No. 51,563. 11 Claims. (Cl. 294—113.)



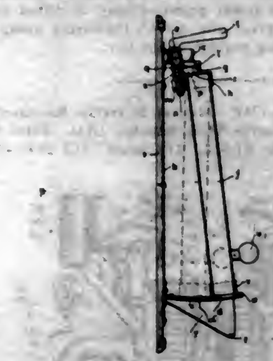
1. A clamp comprising a frame including hingedly connected members adapted to close about an object to be clamped, slips loosely mounted in the frame and means on the frame and engageable with an object to be clamped to interrupt travel of the slips with the frame, the frame being operable on the slips to effect radial closing movement thereof upon continued movement of the frame.

1,693,479. AIR CLEANER. HARRY A. EDGAR, Luverne, Minn. Filed May 15, 1926. Serial No. 109,435. 6 Claims. (Cl. 183—111.)



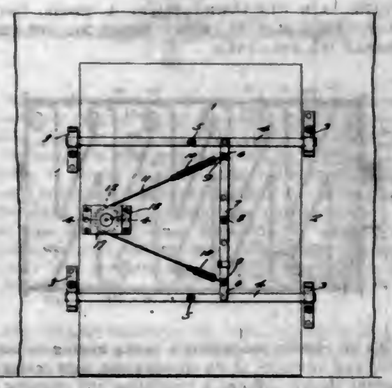
1. An air cleaner comprising a casing having an inlet at one end and an outlet at its opposite end, said casing having means therein defining a separating and cleaning compartment and a dust receiving compartment and a pair of sets of baffles, the baffles of each set being opposed, each set of baffles being made up of a plurality of substantially V-shaped baffle plates, one leg of each V-shaped baffle plate terminating in a curl connected with the adjacent leg of the adjacent baffle, and forming dust precipitating pockets, the V-shaped baffle plates of the other set being staggered and co-acting to define a zigzag passageway through the cleaner, the means which divides the casing into the cleaning and dust-receiving compartments having discharge openings leading from the pockets into the dust receiving compartment.

1,693,480. DISTRIBUTING DEVICE FOR SOLID SOAP. IGNATZ GONIK, Ljubljana, Kingdom of the Serbs, Croats, and Slovenes. Filed Feb. 16, 1927, Serial No. 168,702, and in Germany June 17, 1926. 8 Claims. (Cl. 146—60.)



1. A soap dispensing device, comprising a soap container pivotally mounted at one end, a fixed member normally closing the free end of the container for supporting the soap carried by the latter, a knife mounted between the fixed member and the path of the free end of the container to sever the soap supported on said member during the movement of the container in one direction, and means connected with the pivoted end of the container for limiting the normal movement of the container relative to the fixed member.

1,693,481. BAR DOOR LOCK. SAMUEL A. HARPER, Jonesboro, La. Filed Feb. 1, 1928. Serial No. 251,185. 3 Claims. (Cl. 70—74.)



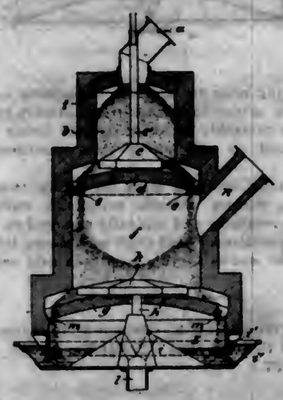
1. The combination with a door and a frame to which the door is hinged, together with oppositely disposed keepers on the frame, and lock bars pivoted to the door and swingable into the keepers, of links pivotally connecting the lock bars, an actuating bar centrally pivoted to the door and to which the links are connected, a lock including a drum, a flexible element trained around the drum, means connecting the ends of the flexible element to the ends of the actuating bar and for retaining the flexible element taut, and the drum for the lock being key actuated.

1,693,482. FOOT SUPPORT. PERCIVAL GEORGE HAMLYN HINDER, London, England. Filed May 29, 1926, Serial No. 112,549, and in Great Britain Apr. 1, 1926. 5 Claims. (Cl. 36—71.)



1. A foot arch support comprising a metal arch, a non-metallic covering and a secondary bearing plate, the rear edge of the metal arch being free to rest on the sole of the boot while its front edge only is protected by the front edge of the secondary bearing plate, the secondary bearing plate being shorter than the metal arch and secured at its rear end in the arch, the metal arch being secured to the non-metallic covering.

1,693,483. GAS PRODUCER. PAUL JAWORSKI, Wielkie-Hajduki, Poland, assignor to the Firm Bismarckhütte, Bismarckhutte/Polnisch Oberschlesien. Filed May 11, 1925, Serial No. 29,605, and in Germany May 13, 1924. 5 Claims. (Cl. 48—76.)

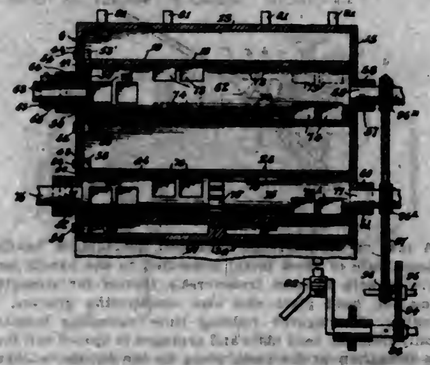


1. In a gas producer for finely divided fuels, in combination, a common wall enclosing three substantially cylindrical superposed chambers of decreasing diameter, and constituting from bottom to top an ash chamber, a gas generating chamber and a fuel preheating chamber, a first transverse fuel supporting division wall spaced below the off-set between said ash pit and said gas generating chamber, a second transverse fuel supporting division wall spaced below the off-set between said gas generating chamber and said fuel preheating chamber, said division walls having fuel ports adjacent their peripheral edges but being imperforate to the passage of fuel at other portions, and mechanical means above each of said division walls for moving material supported thereabove and formed between the division walls and the off-sets above them toward said ports, the ports in said first division wall also serving as inlets for air entering said gas generating chamber.

1,693,484. ROTARY VALVE. HIRAM M. JOHNSON, Toppenish, Wash. Filed Feb. 24, 1927. Serial No. 170,665. 6 Claims. (Cl. 123—190.)

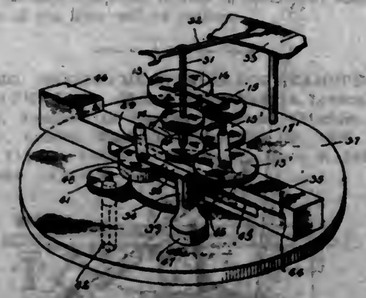
1. A rotary valve mechanism for internal combustion engines including rotors, primary and exhaust ports controlled by the rotors, sealing rings for the primary ports, a lubricating mechanism formed with channels and grooves whereby oil is conducted to, around, and from the sealing rings and rotors, and means whereby the excess oil on





the rotors is removed and returned to the crankcase, said means also providing a seal of the intake passageways on the intake stroke, and preventing the exhaust gases in the exhaust manifold from being forced by back pressure into the intake passageways.

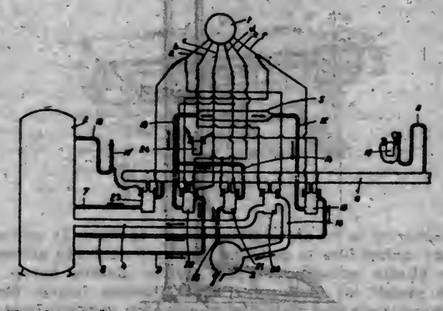
1,693,485. MECHANICAL DIFFERENTIAL MOVEMENT AND TACHOMETER EMBODIMENT. GEORGE P. LUCKEY, Dayton, Ohio. Filed May 20, 1925. Serial No. 31,615. 12 Claims. (Cl. 264—9.)



5. A mechanical movement for obtaining relative angular change between two aligned members in a speed responsive device comprising a system mounted to rotate as a whole and consisting of a series of links arranged in a double superposed parallelogram form, a system of gears partly supported by said links in two adjacent planes and interconnecting said members, said system being mounted to rotate about the axis of said members, so that centrifugal force on one of said gears moves said links to vary the shape of the parallelogram, spring means resisting such change of parallelogram shape, counterbalancing weights for said gears to balance the centrifugal force of said gears about the axis of rotation of said system, and an operating means moved by relative angular change between said aligned members.

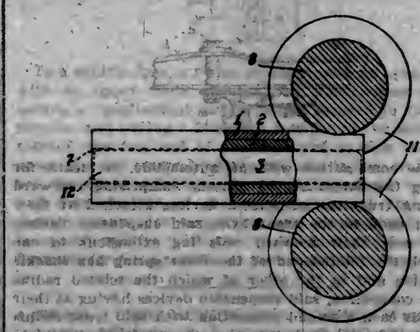
1,693,486. APPARATUS FOR TREATING WOOD WITH OZONE. GUSTAVE LYON, Paris, France. Filed Jan. 16, 1923, Serial No. 613,068, and in France Jan. 27, 1922. 2 Claims. (Cl. 99—12.)

2. Apparatus for seasoning wood and the like comprising a container, an ozone generator in communication therewith, an air drier in communication with said container and with said ozone generator, exhaust means leading from said container, means for varying the pressure in said container, means for maintaining a circulation of air in said apparatus, valves for controlling said communications, and means for automatically actuating



said valves independently of one another and for maintaining them in their open and closed positions for predetermined periods, said last named means comprising clock mechanism, a control drum operated thereby and having a plurality of contacts, and electromagnetic means for operating said valves and controlled by said contacts.

1,693,487. PROCESS OF HOLLOW STAY-BOLT MANUFACTURING. GEORGE HENRY MANSFIELD, Cuyahoga Falls, Ohio. Filed Mar. 7, 1925, Serial No. 13,909. Renewed Feb. 3, 1928. 8 Claims. (Cl. 80—62.)



1. The process of making hollow staybolt bars which consists in heating a hollow billet to rolling temperature, then inserting a refractory core in said billet, reducing said billet to the dimensions of staybolt iron, and extracting said core after said reducing operation.

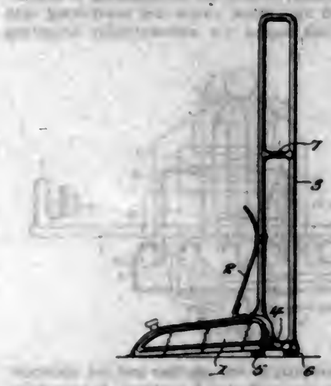
1,693,488. CEMENTING COMPOUND. JOHN MAYES, Port Austin, Mich., assignor to Mayes Brothers Tool Manufacturing Company, Port Austin, Mich., a Corporation of Michigan. Filed Mar. 10, 1927. Serial No. 174,412. 1 Claim. (Cl. 106—34.)

A compound capable of forming a quick-setting cement when combined with water consisting of molding plaster and litharge in the proportions of approximately eight to one, respectively, substantially as set forth.

1,693,489. DUSTPAN. BARNEY MCGILLAN, Green Bay, Wis. Filed Apr. 7, 1928. Serial No. 268,182. 2 Claims. (Cl. 65—20.)

1. A dust pan having an upright handle connected with the rear part thereof, said handle being of U-shape with

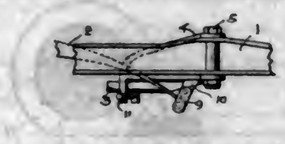
the end of one limb connected with the top part of the pan at the rear thereof, a projection at the rear of the pan connected with the end of the other limb, feet forming



members connected with the bottom of the pan at the rear thereof and a foot forming member connected with the lower end of that limb of the handle which is connected with the projection.

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1,693,490. MEANS FOR LOWERING THE HEIGHT OF THE CHASSIS OF MOTOR VEHICLES. ELVIN D. MORTON and JACK BEWTT, Indianapolis, Ind. Filed June 12, 1925. Serial No 36,630. 2 Claims. (Cl. 267—54.)



1. The combination with an automobile, of means for lowering the height of the chassis, comprising rearward extending truss-like suspension devices attached at their forward ends to the front axle, said suspension devices having near their forward ends lug extensions to one of which the related end of the front spring has shackle connection and to the other of which the related radius rod has connection, said suspension devices having at their rear ends each a second connection with said front radius rods near the forward ends thereof and forming a rigid unit with the front axle and the front radius rods.

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1,693,491. VIBRATOR FOR ALTERNATING-CURRENT RECTIFIERS. CLARENCE E. OGDEN, Cincinnati, Ohio. Filed Oct. 2, 1922. Serial No. 591,865. 12 Claims. Cl. 200—90.)



1. In a vibrating rectifier, the combination with a magnet and a contact point, of a vibrator comprising an armature, a vibrator spring mounted and having one of its ends secured on said armature, a contact point on the free end of said vibrator spring arranged to make contact with said first mentioned point, a tension member arranged to bear against said vibrator spring at a point approximately opposite the contact on said spring, and means for adjusting the tension of said member.

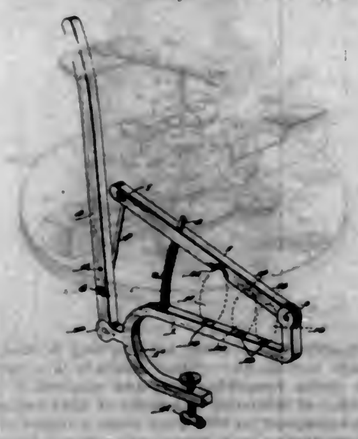
1,693,492. RAKE. NILS FREDRIK BERNHARD ÖSTBERG, Tureberg, Sweden. Filed June 21, 1924, Serial No. 721,583, and in Sweden June 25, 1923. 1 Claim. (Cl. 55—10.)



A rake of the character described, including a handle, a head plate of sheet metal connected to the handle and provided with furrows transversely thereof for strengthening the head plate and also constituting grooves, a plurality of elongated yielding tines extending longitudinally from the head plate and arranged in spaced and fan-like formation in the same plane as the handle, a channel-shaped member having flanged portions which are received in the grooves and are also provided with slots for accommodating the inner portions of the tines, and means for detachably clamping and fastening the channel-shaped member to the under surface of the head plate.

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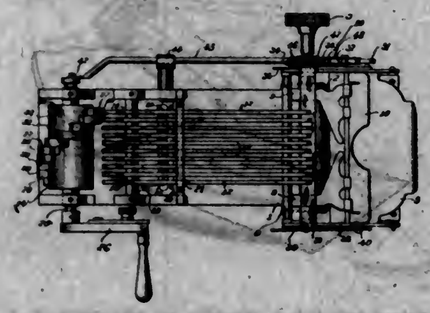
1,693,493. NUT-CRACKING MACHINE. EBER H. PATTON, Longwood, Miss. Filed Sept. 18, 1926. Serial No. 135,233. 2 Claims. (Cl. 146—13.)



1. A nut cracking machine comprising in combination a base bar having a standard at one end, and a U-clamp at its opposite end, a crusher bar pivotally connected at one end to said standard, a perforated lug projecting from the clamp end of the base bar, a handle pivotally connected at its lower end to said lug, said handle having a plurality of adjusting elements, a link pivotally connecting the free end of the crusher bar with the handle by said adjusting elements, said base bar and crusher bar provided with a plurality of opposing sockets to receive and longitudinally center various sized nuts, a guide post projecting upwardly from the base bar, and through an opening in the crusher bar, and a compression spring mounted on said guide post and between the base bar and crusher bar.



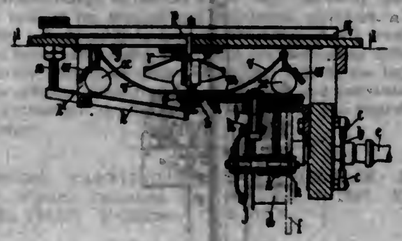
1,693,494. MACHINE FOR TESTING TYPEWRITING RIBBONS, CARBON PAPER, ETC. WINFIELD P. PEMBROKE, Rochester, N. Y., assignor to Kee Lox Manufacturing Company, Rochester, N. Y. Filed July 6, 1926. Serial No. 120,699. 8 Claims. (Cl. 73—51.)



1. A wear down testing machine for typewriting ribbons, carbons and the like comprising a platen, means for holding material to be tested in cooperation with the platen, an impact device for cooperating with the material and the platen, a lever carrying said impact device and having a resilient portion between the impact device and the pivot of the lever, said lever having a normal tendency to move toward the platen, a stop engaging said lever and limiting the movement of the lever toward the platen so that the resilient portion bends to permit the impact device to strike the platen, and means for moving said lever away from the platen, said means having provision for holding said lever against movement for a limited time to cause said lever to assume a definite position away from the platen on each operation thereof in order that successive strokes of the lever will be uniform.

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1,693,495. DRIVING MECHANISM FOR GRAMOPHONES AND THE LIKE. ERNEST LOUIS RANKIN, London, England, assignor to Charles William Whitmore Hanbidge, London, England. Filed May 29, 1926, Serial No. 112,650, and in Great Britain June 4, 1925. 7 Claims. (Cl. 185—37.)

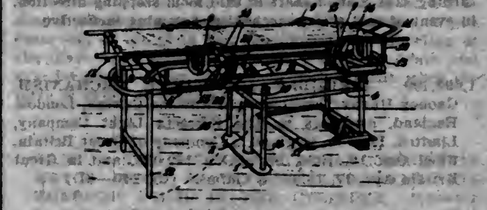


1. A spring motor mechanism for gramophones comprising a driving spring, a spindle driven by the said spring through sprocket gearing, a second spindle driven by the first mentioned spindle through bevel gearing, a longitudinally adjustable record table spindle rotated by the said second spindle and an elastic belt gearing for transmitting motion from said second spindle to the record table spindle.

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1,693,496. AUTOMOBILE BRANCARD. WILHELM FRANS RISSEVIS, Soekaboemi, Java, Dutch East Indies. Filed June 24, 1926, Serial No. 116,265, and in the Netherlands May 20, 1925. 3 Claims. (Cl. 5—82.)

1. A brancard support including a frame, leaf springs of semi-circular shape, mounted on said frame adjacent its opposite ends, the free ends of said springs being oscillatable in vertical planes, and by torsion, horizontally, clamping means for a brancard carried by the free ends of said springs, a pair of rigid arms for each spring, having a common pivotal connection and connected to said



springs at points at opposite sides of its arc of curvature, tending to inhibit torsional deflection of said spring, and a spring normally biasing said arms together axially of said pivotal connection, for controlling the degree of lateral torsional deflection permitted by said semi-circular springs.

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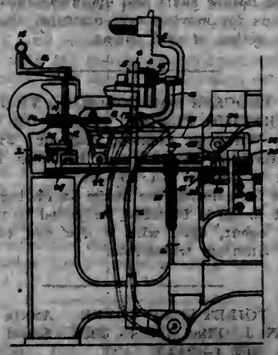
1,693,497. VENTILATING DEVICE. RALPH ROLLO RUSSELL and JOHN STEPHEN WHITE, Paducah, Ky. Filed June 3, 1925. Serial No. 34,709. 1 Claim. (Cl. 98—2.)



In a vehicle door, a frame provided with an opening and with an upper cross member, the upper cross member having a longitudinal slot, a shield secured to the cross member and having a U-shaped member at the lower edge thereof, the free end of the U-shaped portion extending upwardly and received within the slot in the cross member, the shield including a portion which extends upwardly and over the top of the cross member, a transparent closure, means for supporting and moving said closure in spaced relation with the shield, said shield extending downwardly for a portion of the length of the opening.

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1,693,498. STOP MOTION FOR LOOMS. WILLIAM E. SMITH, Milltown, N. J., assignor to Gulbenkian Seamless Rug Company, New Brunswick, N. J., a Corporation of New Jersey. Filed Nov. 27, 1926. Serial No. 151,108. 4 Claims. (Cl. 139—345.)

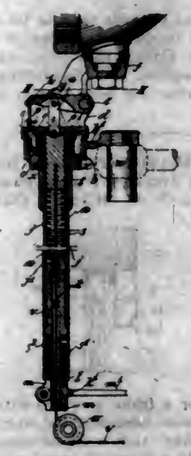


1. In a stop motion, for looms having a lay and a power control element for stopping and starting the loom; the

combination of a control shaft associated with said power control element; active mechanism tending to turn said control shaft in one direction to effect a stopping of the loom; restraining means for said control shaft; means operable by said lay for releasing said control shaft from said restraining means; and positive acting means for turning said control shaft in said loom stopping direction, in event of said active mechanism becoming ineffective.

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1,693,499. DIRIGIBLE HEADLIGHT MECHANISM. GEORGE HENRY TREGLOWN and EDWARD CARTER, London, England, assignors to The Correcta Light Company, Limited, London, England, a Company of Great Britain. Filed Oct. 16, 1926, Serial No. 142,032, and in Great Britain Apr. 17, 1926. 6 Claims. (Cl. 240—61.)



1. A swivel lamp for steerable vehicles, comprising a tubular casing, means for supporting said casing on the vehicle, a hollow shaft revoluble within said casing, a carrier revoluble upon the upper end of said casing and fixedly connected to the upper end of said shaft, a crank arm secured to the lower end of said hollow shaft the free end of which crank arm is adapted for engaging the steering mechanism of the vehicle in one direction of movement thereof to turn said hollow shaft, resilient means adapted to return said shaft after operation, a platform pivotally mounted on a substantially horizontal pivot on said carrier, means for removably supporting a lamp on said platform, a spring constantly operative upon said platform, and a flexible member extending centrally through said hollow shaft and operative through suitable control means for moving said platform about its pivot against the action of said spring.

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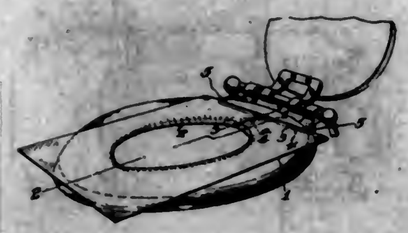
1,693,500. PROCESS FOR COLORING THE IMAGE ON PHOTOGRAPHIC PLATES, FILMS, OR THE LIKE. GEOFFREY WHEELER, London, England. Filed Jan. 19, 1927, Serial No. 162,204, and in Great Britain Feb. 27, 1926. 1 Claim. (Cl. 95—88.)

A process for coloring the image on photographic films, wherein the image is bleached, subjected to the action of a reducing agent, dyed with a dye and toned with a solution of titanium trichloride.

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1,693,501. TOILET-SEAT COVER. ANNIE E. CABNER, Camden, N. J. Filed Apr. 13, 1928. Serial No. 269,740. 4 Claims. (Cl. 4—243.)

1. A temporary sanitary toilet seat cover comprising a seat cover body having an opening therein substantially corresponding to the ordinary seat opening, said cover body having a folded part connected to the body of the



seat cover, a wire mounted in the fold of the folded part, said wire having curved ends, to be bent to engage with the toilet seat or the hinged seat cover.

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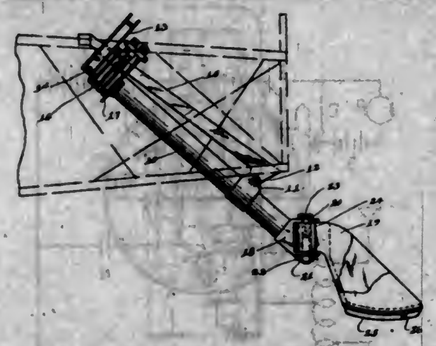
1,693,502. APPARATUS FOR GRIPPING PIPES, RODS, OR THE LIKE. MARVIN B. DAVIS, Kansas City, Mo., assignor to George Krell, Sapulpa, Okla. Filed Apr. 30, 1926. Serial No. 105,740. 10 Claims. (Cl. 24—249.)



1. In well drilling apparatus, a table, a plurality of jaws associated with said table having gripping means mounted therein, means for moving said jaws relative to said table comprising a member embracing said jaws through which said jaws extend and means for raising and lowering said member, and means connecting said table with said jaws, whereby said jaws move toward or away from each other as said jaws are moved relative to the table.



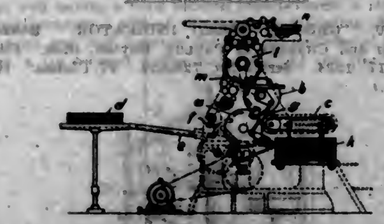
1,693,503. TAIL SKID FOR AIRPLANES. CHARLES W. DWORACK, Dayton, Ohio. Filed Mar. 18, 1924. Serial 700,101. 2 Claims. (Cl. 244—2.)



1. In a tail skid for airplanes, a skid shoe having renewable ribs welded on the bottom surface thereof, one being welded longitudinally and another cross-wise of the bottom surface.

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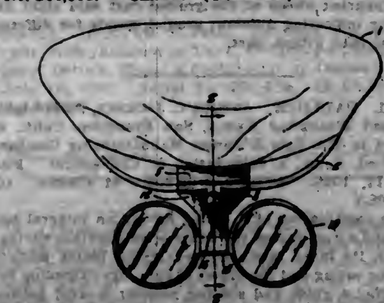
1,693,504. ROTARY PRINTING MACHINE. ALFRED FALLOT, Plauen, Germany; Harry Priester executor of said Alfred Fallot, deceased. Filed Feb. 7, 1924, Serial No. 691,268, and in Germany Feb. 14, 1923. 2 Claims. (Cl. 101—142.)



1. In an off-set printing machine, a plate cylinder, a blanket cylinder and an impression cylinder positioned so that the plane through the axes of the plate and blanket cylinders makes an obtuse angle with the plane through the axes of the blanket and impression cylinders, a feed table, an intermediate gripper for taking sheets from the feed table and passing them onto the impression cylinder, delivery mechanism arranged at that side of the impression cylinder opposite to the feed table and positioned at approximately the height of the axis of the impression cylinder.

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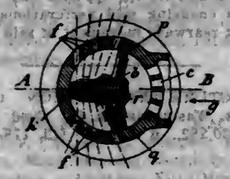
1,693,505. CARRYING DEVICE FOR GOGGLES. JOHN T. FISHER, Tarentum, Pa. Filed Feb. 7, 1927. Serial No. 166,531. 2 Claims. (Cl. 2—10.)



1. In combination, a cap having a peak and clamping means between the peak and the body of the cap comprising a male member and a coengaging female member, a plate U-shaped in cross section arranged over the visor and having its top provided with spaced openings through which the clamping means between the peak and body of the cap pass, a spring clip on the outer edge of the U-shaped member and depending therefrom, a plate hingedly secured to the inner end of the under element of the U-shaped member, a spring jaw integrally formed on the outer end of the plate and extending in the direction of the plate and exerting a tension toward the plate and said jaw designed for engagement with the clip when the plate is swung thereagainst.

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1,693,506. TWO-STROKE INTERNAL-COMBUSTION MOTOR WITH SCAVENGING AND EXPULSION THROUGH PORTS IN THE CYLINDER. TORKILD VALDEMAR HEMMINGSEN, Copenhagen, Denmark. Filed Feb. 21, 1927, Serial No. 169,945, and in Denmark May 12, 1926. 6 Claims. (Cl. 123—65.)



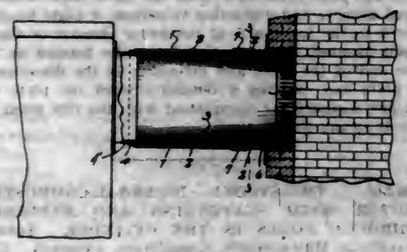
3. A two-cycle internal combustion engine comprising a cylinder having a head, a piston working therein, said cylinder being provided with piston controlled inlet ports, for scavenging air and piston controlled exhaust ports, said exhaust ports being symmetrically arranged in a group in that part of the cylinder remote from said head, extending through only a portion of the cylinder circumference, the axis of symmetry of said exhaust ports and the cylinder axis defining a plane of symmetry, said inlet ports being arranged in two groups disposed in the remaining part of the cylinder circumference, symmetrically with respect to the said plane of symmetry, the directional axes of said inlet ports intersecting said plane of symmetry in points located in the space between the cylinder axis and that part of the cylinder wall opposite said exhaust ports, and the sequence of said intersecting points being in the same order as the sequence of the said inlet ports, said points of intersection with said plane being substantially evenly spaced apart, the head of the piston being provided with deflectors comprising three radially arranged ridges dividing the piston head into three distinct areas, one deflector being situated in said plane of symmetry in the loci of the points of intersection of the center lines of said inlet ports, the other two deflectors being situated symmetrically with reference to said plane of symmetry, and constituting with said first-mentioned deector and with the piston, two symmetrically disposed angular pockets, each one of said pockets extending over one group of inlet ports, said cylinder head being provided with two symmetrically disposed triangular shaped projections matching with the said symmetrically disposed pockets, said projections displacing the volumes of said pockets when the piston is in its upper dead center position, leaving a third pocket, disposed between the two second mentioned deflectors and that part of the cylinder wall on the same side as the exhaust air ports to constitute a combustion chamber, and a fuel valve located in the cylinder head communicating with said third pocket.

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1,693,507. STOVEPIPE VENTILATOR. WILLIAM J. HULL, Dublin, Ind. Filed May 15, 1928. Serial No. 277,860. 2 Claims. (Cl. 126—312.)

1. A stove pipe ventilator, comprising a pipe joint having a plurality of perforations in its side walls, and an

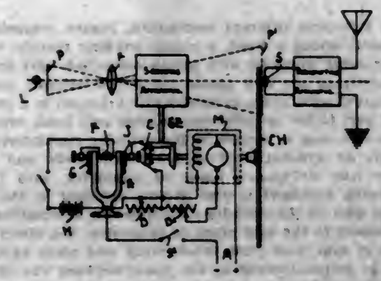
inner frusto-conical pipe section located within said pipe joint and spaced apart therefrom by an annular space of wedge form in longitudinal section, said inner pipe sec-



tion having close wedging engagement with said pipe joint at its rear end and at its opposite end having flexible spring tongues engaging said perforations and reversely bent to prevent rearward movement of said pipe section.

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1,693,508. PICTURE TRANSMISSION. CHARLES FRANCIS JENKINS, Washinton, D. C. Filed Aug. 19, 1926. Serial No. 130,282. 6 Claims. (Cl. 178—6.)

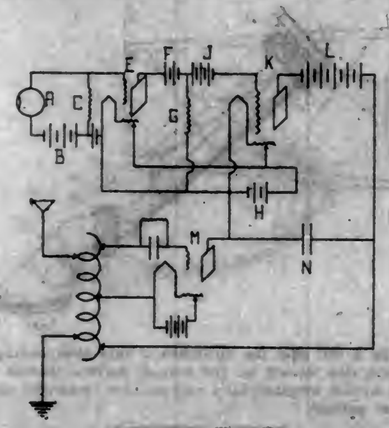


1. In a system for transmitting visual representations including means for analyzing said visual representations to be viewed at a distance as a composite, means for converting and transmitting them into electrical impulses of frequencies from which a relatively low frequency synchronizing signal bearing a definite relation to the analyzing means may be detected at a distance, means for detecting the low frequency, an independently operating driving device for composing the analyzed equivalents of said representations, means responsive to the detected low frequency for maintaining the driving device for composing the analyzed equivalents in synchronism with said analyzing means, and means for generating a second low frequency synchronizing signal bearing a definite relation to the speed of the driving device for comparison with the first synchronizing signal.

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1,693,509. RESISTOR CELL CIRCUIT. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 22, 1924. Serial No. 745,215. 1 Claim. (Cl. 250—17.)

In a radio amplifier and modulator, a light sensitive cell, a three-element tube, a resistance coupling between said cell and tube, an amplifier, a resistance coupling between said tube and amplifier, a source of potential in circuit with the cell and grid of the tube, sources of potential located respectively in the plate circuit of the tube and grid circuit of the amplifier on opposite sides of the second-named resistance coupling, an oscillating tube, a conductor connecting the plate of the amplifier in series with the plate of the oscillating tube, a source of potential in



said conductor, and a by-pass condenser in said conductor, and a by-pass condenser in said conductor between said source of potential therein and the plate of the oscillating tube.

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1,693,510. GROUND-SPEED INDICATOR. ROBERT KAUCH and CHARLES L. PAULUS, Dayton, Ohio. Filed July 17, 1924. Serial No. 726,550. 17 Claims. (Cl. 88—1.)



15. In a ground speed indicator, means for keeping a constant line of sight to the ground with restricted vision, means to vary the restriction of vision according to altitude, a driven part visible through said sighting means, means to vary the speed of said driven part until the sweep thereof past said sight is approximately the same as the apparent sweep of the ground past said sight and means for indicating different ground speeds for different speeds of said driven part.

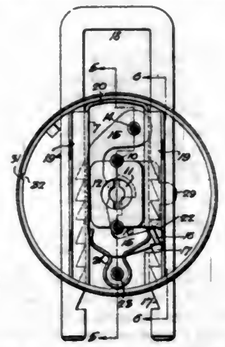
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1,693,511. PADLOCK. ARTHUR C. JACKSON, Philadelphia, Pa., and WALDEMAR KROLL, San Francisco, Calif., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed Mar. 17, 1926. Serial No. 96,306. 11 Claims. (Cl. 70—108.)

1. The combination of a casing having an integral back section and a deep flange, the flange of said section having a groove in its inner face; works-carrying plates mounted within the casing and the plates having lugs extending into the groove; a guide and spacing member located between the two works-carrying plates, the casing being perforated in alignment with the guides; a U-shaped shackle arranged



to pass through the perforations, one of the arms of said shackle having teeth, a bolt arranged to engage the toothed shackle; and a cover plate having a tongue, and the works-



carrying plates adjacent the cover having a notch to receive the tongue whereby the several parts are brought into alignment.

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1,693,512. DINING CHAIR. SAMUEL JAFFE, Memphis, Tenn. Filed Apr. 15, 1927. Serial No. 184,035. 1 Claim. (Cl. 155—125.)

A dining chair, comprising a seat of a general rectangular shape and having one front side cut away to form a recess for a leg of a diner, two rear legs extending above the seat and having a back secured therebetween, a leg at the front unrecessed side of the seat and extending above the seat, an arm rest between the said leg and one of the rear legs, a leg secured to the under side of the front of the



seat at the corner defined by the recess thereof, a leg at the rear of the recess of the seat and extending above the seat a less distance than the rear legs, and a table arm secured to the top of the said leg and to one rear leg between the seat and its upper end, and having its forward end extending over the recess of the seat.

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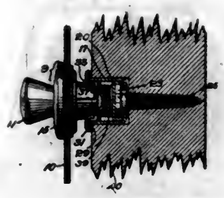
1,693,513. BUMPER CLAMP. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed July 18, 1927. Serial No. 206,435. 18 Claims. (Cl. 293—55.)



18. A clamp plate having spaced recesses adapted to receive an edge of a bar and to provide extended bearing surfaces thereon, a recessed projection intermediate said spaced recesses adapted to receive an edge of the bar and an aperture in said plate adapted to receive the shank of a bolt.



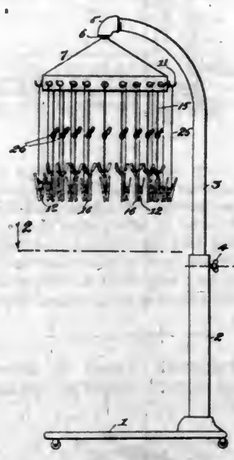
1,693,514. FASTENER. GUSTAV JOHNSON, Dorchester, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed June 14, 1924. Serial No. 719,920. 7 Claims. (Cl. 24—211.)



1. A fastener socket including a tubular casing, a partition between the ends of said casing, means at one side of said partition for receiving a cooperating stud and a recess at the other side of said partition surrounded by a wall crimped over the head of an attaching member located in said recess to prevent relative rotation between the casing and attaching member.

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1,693,515. PERMANENT-WAVING MACHINE. MARJORIE S. JOYNER, Chicago, Ill., assignor to The Madame C. J. Walker Manufacturing Company, Indianapolis, Ind., a Corporation of Indiana. Filed May 16, 1928. Serial No. 278,174. 6 Claims. (Cl. 132—36.)



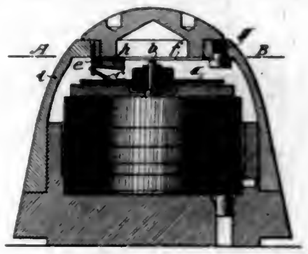
1. In a permanent waving machine, the combination with a standard, of a dome carried by said standard, said dome provided with a spacing plate therein, hooks on said dome, means supported by said hooks and retaining the spacing plate within the dome, lights and curling irons supported upon said spacing plates, and clamping devices supported by said hooks.

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1,693,516. MECHANICAL TIME FUSE. OSKAR JUNGHANS, deceased, Schramberg, Germany, by Siegfried Junghans, administrator, Villingen, Baden, Germany. Filed Jan. 12, 1928, Serial No. 246,358, and in Germany Jan. 19, 1927. 3 Claims. (Cl. 102—36.)

1. A mechanical time fuse of the character set forth, comprising a clockwork, a cap enclosing said clockwork, a

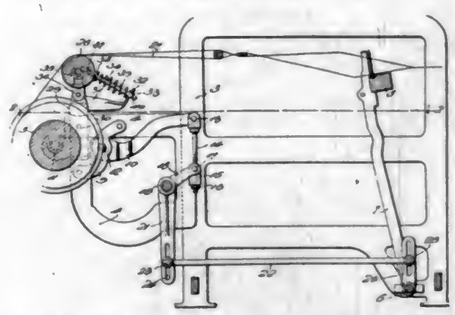
timing or setting disk operatively connected with the main arbor of the said clockwork, a lug projecting from the plane of the said timing disk, a pin in the cap co-operating with



the said lug to lock the timing disk, and a hammer adapted to bring, upon the firing of the shot, the said lug out of locking engagement with the pin.

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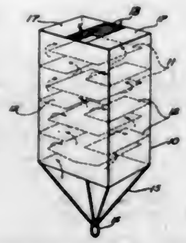
1,693,517. WARP-BEAM-SHIFTING MEANS. AUGUST KATTERMANN, Paterson, N. J. Filed Dec. 15, 1927. Serial No. 240,287. 2 Claims. (Cl. 139—100.)



1. In a loom, warp beam bearings, levers by one end of which said bearings are carried, links pivoted to the other end of said levers, means fulcruming said levers between their ends, crank arms to which said links are pivoted, a rock shaft carrying said crank arms, and operating means connecting said crank arms with a positively moved part of the loom for rocking said shaft to alternately effect raising and lowering of the warp beam supporting bearings and the warp beam.

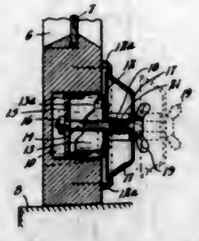
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1,693,518. PARACHUTE. JOHN H. KESSLER, Nyack, N. Y. Filed May 18, 1927. Serial No. 192,338. 7 Claims. (Cl. 244—21.)



2. A parachute, an elongated rectangular box-like body open for the passage of air vertically therethrough, transversely disposed baffles in the body throughout its length, means at the bottom to suspend a person descending with the parachute, and top sections on the body presenting an air outlet therebetween.

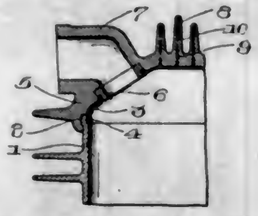
1,693,519. VENTILATOR FOR WINDOW SASHES. SAMUEL A. KINKEL, Minneapolis, Minn. Filed Mar. 3, 1928. Serial No. 258,827. 8 Claims. (Cl. 98—97.)



1. A window ventilator, comprising a plate adapted to fit over an opening in a window sash, resilient means urging said plate away from the sash, a key projecting through said plate and having a head abutting the outer side thereof, and a cam against which portions of said key must travel as it is turned, to force said plate against said sash as the key is turned in one direction and to permit said resilient means to force said plate away from the sash as the key is turned in an opposite direction.

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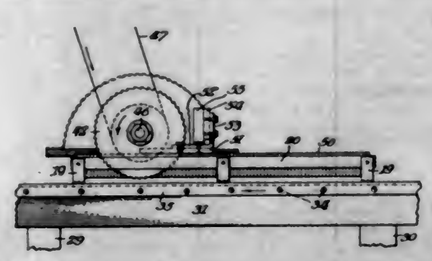
1,693,520. CYLINDER OF AN INTERNAL-COMBUSTION ENGINE. RENNOSUKE KONDO, Tokyo, Japan. Filed Apr. 3, 1928, Serial No. 266,989, and in Japan Jan. 30, 1928. 3 Claims. (Cl. 257—261.)



1. Cylinder of an internal combustion engine comprising a cylinder body, an inner wall of the cylinder head made of sheet metal and fixed to an end of the said cylinder by a connecting means such as welding or soldering, and an outer wall of the cylinder head which is made of aluminum or its alloy and cast on the said inner wall so as to cover its whole outer surface and to be connected with the end of the cylinder body.

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1,693,521. EQUIPMENT FOR MANUFACTURING BOX PARTS. HOMER E. LEASH, Niles, Calif., assignor to International Wood Products Co., Niles, Calif., a Corporation of Delaware. Filed Jan. 26, 1925. Serial No. 1,705. 4 Claims. (Cl. 143—52.)



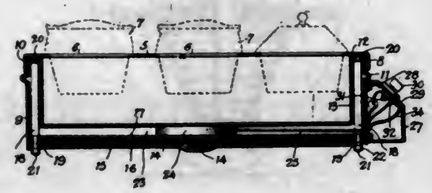
2. A tray for use substantially as described in connection with a sawing machine and comprising a plurality of lon-



gitudinally extending supporting members spaced apart at least a distance sufficient to permit the passage of a saw blade therebetween, upwardly extending stops at opposite ends of each of said supporting members, means on one of the end stops of each of said supporting members for urging material packed therebetween towards the opposite stops, a plurality of binding members arranged transversely of said longitudinal supporting members and secured thereto so as to maintain the latter in said spaced relation, means supported by said binding members for aligning the ends of said strips of material, and a removably mounted longitudinally extending member for optionally adapting said tray for use with different lengths of material.

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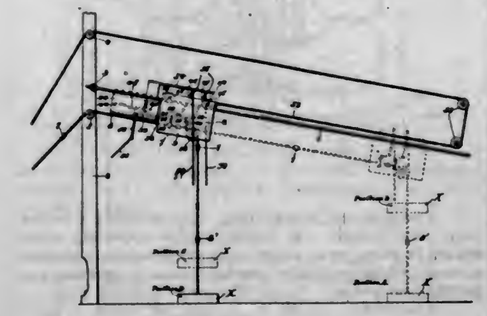
1,693,522. ELECTRIC STEAM TABLE. ROBERT EARNEST MEDEARIS, Nashville, Tenn. Filed Nov. 3, 1927. Serial No. 230,840. 2 Claims. (Cl. 219—43.)



1. An electric steam table, consisting of a top having openings to receive food containers, an outer casing, a tank supported in spaced relation to said top and casing, a bottom composed of a series of plates, adjustable means for connecting the tank, casing and bottom, a heating unit between the bottom and tank, a switch box secured to the casing, a switch mounted therein, a series of contacts for said switch, and current feeding wires leading to said heating unit.

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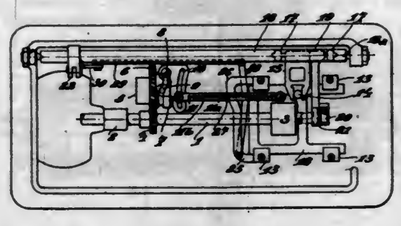
1,693,523. OVERHEAD HAULAGE CARRIER. ELMORE MILOTTE, Eureka, Calif., assignor of one-half to J. B. Morganti, Eureka, Calif. Filed Sept. 14, 1927. Serial No. 219,528. 3 Claims. (Cl. 212—98.)



1. An overhead haulage carrier comprising a carriage, a track therefor, a combined haulage and load supporting cable extending into and depending from said carriage, spaced stops secured to said cable, a pair of spaced latching means within said carriage, means to provide for one of said stops to coact with said latching means to maintain the load in a suspended position and for the propelling of the carriage in one direction from said cable, means to provide for the other of said stops to coact with said latching means to maintain the load engaging end of the cable, when free of the load, in an elevated position when the carriage is travelling in an opposite direction, and means for shifting said carriage in said opposite direction.

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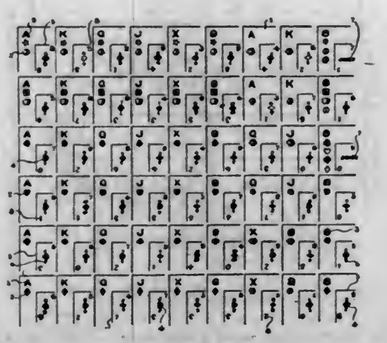
1,693,524. FEEDING MECHANISM FOR SEWING MACHINES. RUDOLF MUNDLOS, Magdeburg, Germany. Filed Jan. 26, 1927, Serial No. 163,756, and in Germany Apr. 29, 1925. 5 Claims. (Cl. 112—205.)



1. In a sewing machine for moving a material-feeder in longitudinal direction comprising a main shaft, a material-feeder, a bearing on the main shaft, an oscillatable lever, a frame-shaped slide associated with the main bearing and with the material-feeder, a connecting rod between said lever and material slide, a stud projecting from the slide, an oscillatable bolt on which the material-feeder is pivotally mounted, and a fork on said bolt for engagement with said slide.

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1,693,525. PACK OF PLAYING CARDS. JOSEPH D. NIEDERLITZ, Rochester, N. Y. Filed Aug. 23, 1928. Serial No. 301,551. 6 Claims. (Cl. 273—152.)



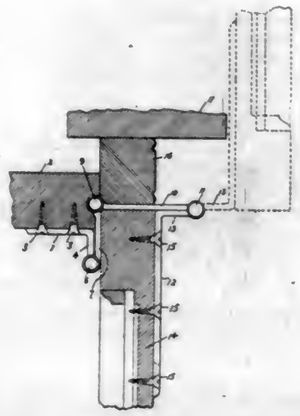
1. A pack of playing cards comprising fifty-four cards which have characters thereon dividing the cards into eight suits and also value characters on the different cards of each suit, the value characters of the different suits being the same type.

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1,693,526. HINGE. CHARLES S. OWENS, Madisonville, Ohio. Filed June 15, 1927. Serial No. 199,103. 2 Claims. (Cl. 16—163.)

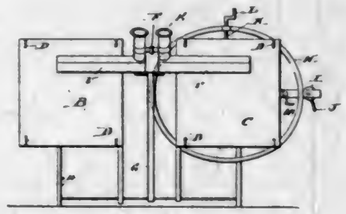
1. A hinge, comprising in combination with an inside leaf adapted to be secured to a fixed frame and an outside leaf adapted to be secured to the face of a movable frame,

an extension on said outside leaf extending at right angles thereto away from said frame, and a plurality of intermediate leaves pivotally secured together, one of said intermediate leaves being pivotally secured to said inside leaf and another being pivotally secured to the outer end of the extension on said outer leaf.



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1,693,527. AERIAL PHOTOGRAPH INTERPRETER. DACHE M. REEVES, Belleville, Ill. Filed Mar. 21, 1923. Serial No. 626,551. 10 Claims. (Cl. 88—29.)

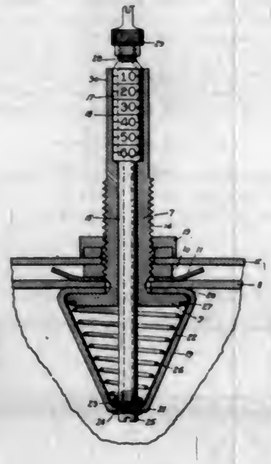


2. In combination with a supporting frame, a pair of photograph-supporting platforms, an optical unit, and means for varying the magnification of a photograph placed upon one of said platforms, and means for moving one of said platforms in either or both of two directions transversely of each other.

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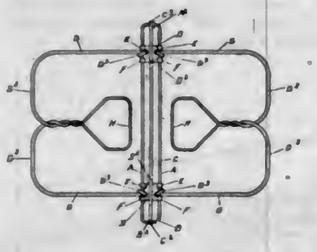
1,693,528. TIRE VALVE STEM AND PRESSURE GAUGE. NELSON T. SHORTS, Fern, Pa. Filed Mar. 16, 1927. Serial No. 175,830. 8 Claims. (Cl. 152—11.5.)

8. The combination with the inner tube of a tire, of a tire pressure gauge comprising a barrel having a flange at one end disposed within said tube, a member slidable through said barrel, a conical bulb having its smaller end attached to said member and having an inturned flange at its larger diametered portion disposed between said barrel flange and tube, a conical spring within said bulb confined between said member and barrel flange with its larger diametered portion bearing against said barrel flange, and means on said barrel to clamp said tube and bulb flange between it and said barrel flange.



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1,693,529. MAGAZINE AND BOOK HOLDER. CLARENCE R. SNOW and DANIEL J. FLOOD, Quincy, Mass. Filed Jan. 31, 1928. Serial No. 250,816. 6 Claims. (Cl. 129—38.)

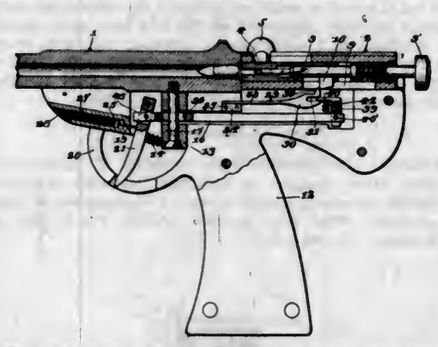


5. A book holder formed from wire including a center frame with parallel side members, page-supporting wings hinged thereon; said wings having respectively intermediate their edges a handle adapted for use in grasping and holding the device.

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1,693,530. PISTOL. WALTER S. SPENCER, St. Louis, Mo. Filed Sept. 28, 1927. Serial No. 222,661. 8 Claims. (Cl. 42—16.)

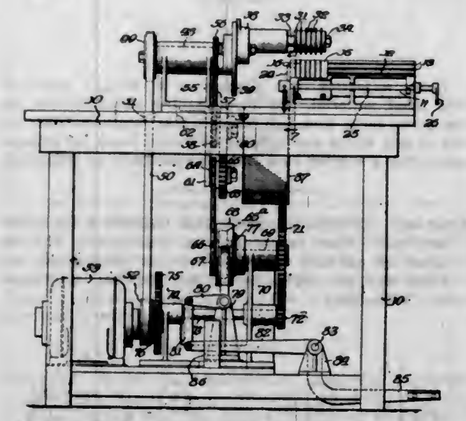
3. In a firearm, in combination, a sear including a shank fixed at one end and having its other end provided with a head formed with a lengthwise slot and further provided with an upstanding lug for extension in the path of a bolt action to releasably hold said action in set position, an angle shaped, pivoted, spring controlled combined holding and releasing member for said sear and having one of its arms permanently extending into the slot of said head, and a trigger operated releasing bar pivotally connected to said member and providing means for rocking the same on its pivot to shift said lug of the sear out of the path of the bolt action to release the same.



8. In a firearm, a trigger, and a spring controlled plunger positioned in advance of and in the path of and engageable with the trigger for cushioning the return movement of the latter.

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1,693,531. CUTTING DEVICE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 22, 1924. Serial No. 708,211. 10 Claims. (Cl. 164—61.)



2. A cutting device comprising means for holding a sheet of flexible material in cylindrical, trough-shaped condition and a cutter movable transversely of said sheet across the trough.

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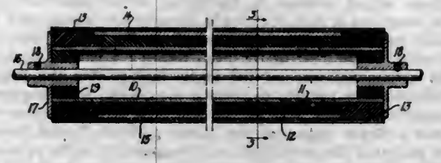
1,693,532. SAFETY RAZOR. BENJAMIN FLETCHER STEWART, Birmingham, Ala., assignor of one-half to Albert Vanburen Vines, Bessemer, Ala. Filed Dec. 10, 1927. Serial No. 239,166. 1 Claim. (Cl. 30—12.)



In a safety razor, a head having sockets, a removable blade holding section having a threaded shank extending through the head, a securing plate having openings disposed adjacent to the sockets and having an opening to receive the threaded shank, a nut on the shank to engage the plate to hold the plate into close engagement with the head, a handle embodying sections movable longitudinally with respect to each other, a ball on one end of each handle section, said balls being fitted in the sockets and held against movement by frictional engagement with the plate.

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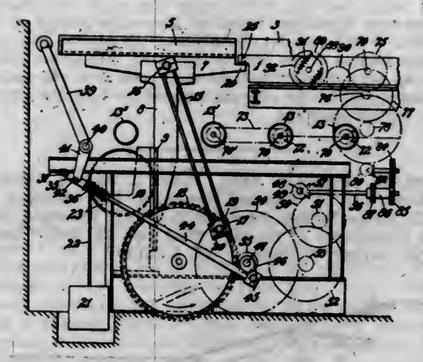
1,693,533. TYPEWRITING MACHINE. BURNHAM C. STICKNEY, Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 21, 1926. Serial No. 136,755. 8 Claims. (Cl. 197—147.)



6. A cylindrical platen for a typewriting machine, including a reinforced lead core and a thin stiff covering for said core, the latter serving as a means for protecting the lead core against type-blow indentations, said stiff covering being backed by an intervening thin layer of flexible material.

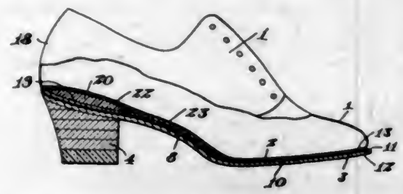
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1,693,534. APPARATUS FOR CONVEYING THE WORK-HOLDING TABLES OF A CONTINUOUSLY-MOVING SERIES OF TABLES. FREDERIC BARNES WALDRON, Prescot, England, assignor to Pilkington Brothers Limited, Liverpool, England, a Limited Liability Company of Great Britain. Filed Aug. 11, 1924, Serial No. 731,385, and in Great Britain Aug. 23, 1923. 7 Claims. (Cl. 198—85.)



7. In apparatus for conveying the work-holding tables of a continuously moving series of tables from the finishing end to the starting end of their operative course, the combination with said continuously moving series of tables and main driving means operative to propel said series, of auxiliary driving means adapted to push forward the table last added to the series, the auxiliary and main driving means being in operative connection with each other, and a spring driving device in the auxiliary driving means adapted to push the said added table resiliently against the next preceding table of the series, whereby the table so added may be pushed at any moment, into engagement with the said auxiliary driving means and driven thereby into operative engagement with the main driving means.

1,693,535. PROCESS OF MAKING BOOTS AND SHOES. PAUL C. WOLFER, Everett, Mass. Filed July 11, 1927. Serial No. 204,727. 7 Claims. (Cl. 12—142.)



1. The improved method of manufacturing boots and shoes, which consists in assembling upper materials and an insole on a last, forming a longitudinal instep arch in said upper materials extending from the ball of the toe portion to the rear of the heel, forming a pair of pockets on a diagonal line on the insole and raising the insole between said pockets to form a metatarsal arch support, applying an arch stiffener to said shoe with a portion of said stiffener engaging the raised portion of said insole to maintain the metatarsal arch support, applying suitable filler to the shoe bottom cavities, applying an outsole and completing the shoe.

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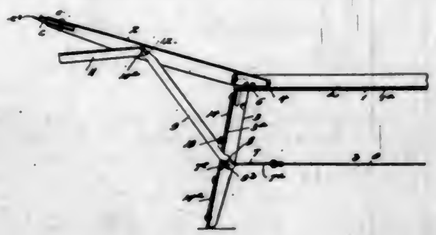
1,693,536. UMBRELLA. WILLIAM T. WOODLEY, Raleigh, N. C. Filed Nov. 12, 1927. Serial No. 232,825. 2 Claims. (Cl. 135—34.)



1. In an umbrella, a frame comprising ribs, a removable cover to be arranged upon the ribs, socket plates secured to the outer portions of the removable cover and having extensions extending throughout the major portion of the length of the ribs for distributing the strains over the major portion of the area of the cover, said socket plates having key-hole openings near their outer ends and headed studs carried by the ribs and adapted for insertion within the keyhole openings.

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1,693,537. FOLDING BED. FRANK A. ADKINS, Chicago, and NOAH S. HARTER, Waukegan, Ill., assignors to Champion Folding Furniture Company, Waukegan, Ill., a Corporation of Illinois. Filed July 15, 1927. Serial No. 206,097. 7 Claims. (Cl. 5—114.)

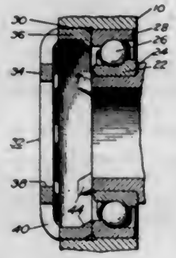


1. A folding bed comprising side rails and legs composed of channel bars, each rail comprising a relatively long central bar, the legs pivoted to the ends of the central bars and adapted to fold around the backs and sides thereof, and a leg tie connecting the legs attached to each central bar, each tie comprising realtively short end sections pivoted within the legs and adapted to fold upwardly therein, and a relatively long central section adapted to lie against the back of the central section of the side rail when the bed is folded.

7. A folding bed comprising side rails and legs, each side rail comprising a central bar and pivotally connected end bars adapted to project beyond the central bar when the bed is set up, a fabric connected to the ends of the bars, latches pivotally supported on the end bars and adapted to interlock with parts on the adjacent legs, and levers on the end bars adapted to apply tension to the latches after they have been locked to the legs to draw the end bars downwardly and thereby stretch the fabric.

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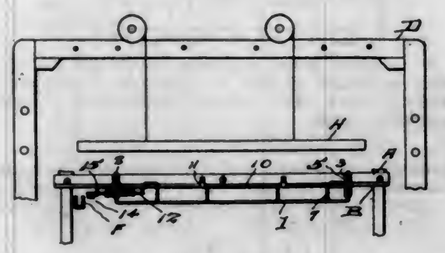
1,693,538. ADJUSTING NUT. CARLOS H. ALLEN, Detroit, Mich., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed July 2, 1925. Serial No. 41,232. 4 Claims. (Cl. 85—32.)



1. An adjusting nut comprising a flanged plate of thin sheet material, the flange having screw threads on one of its faces, and fingers pressed at intervals from the end of said flange and forming abutment faces for engagement with a bearing race ring; substantially as described.

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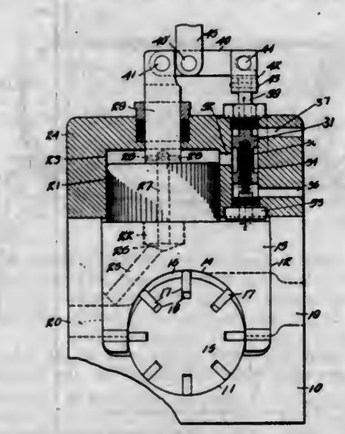
1,693,539. COMBINED SHUTTLE GUARD AND STOP MOTION. LEO ABRAM BADGER, Burlington, Vt., assignor of one-half to Alfred Perrotta, Burlington, Vt. Filed May 16, 1927. Serial No. 191,724. 4 Claims. (Cl. 139—341.)



1. In a loom the combination of the reed-cap and a side filling-fork, a normally retracted brush-bolt carried by the reed-cap for co-action with the tail of the side filling fork, retaining means for the brush-bolt and means for releasing said retaining means, and means for projecting the released brush-bolt.



1,693,540. PUMP-CONTROL DEVICE. HAROLD E. BALSIGER, Waynesboro, Pa., assignor to Landis Tool Company, Waynesboro, Pa., a Corporation. Filed Nov. 8, 1927. Serial No. 231,877. 11 Claims. (Cl. 103—120)



1. A pump regulating device comprising means movable to vary the volumetric capacity of the pump, fluid pressure means for operating said capacity varying means, and manually operated means for controlling the admission of fluid to said last named means, substantially as set forth.

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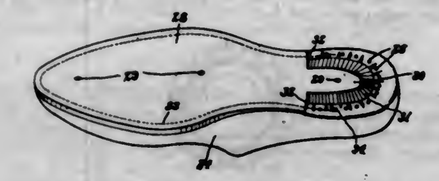
1,693,541. BUTTON. FRANK BATOVEC, Sr., New York, N. Y., assignor to Frank Batovec, Jr., New York, N. Y. Filed May 9, 1927. Serial No. 190,054. 1 Claim. (Cl. 24—90.)



A button comprising a center piece having a recess in one face thereof, a shell member formed from a single piece of material having a bottom disc, said center piece and bottom disc having aligned holes therein, the holes in said center piece opening into said recess, and a peripheral flange vertical to said disc, the top of said flange being above said recessed face.

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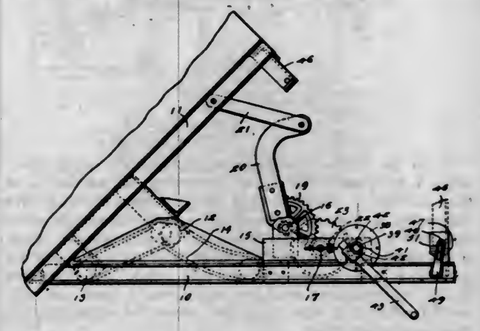
1,693,542. BOOT AND SHOE AND METHOD OF MAKING THE SAME. SIDNEY R. BLAKELY, Jamaica Plain, Mass. Filed Nov. 21, 1927. Serial No. 234,728. 6 Claims. (Cl. 36—19.)



1. A McKay shoe comprising an insole, a shank and heel piece under said insole, upper materials, an outsole and heel, said outsole being secured by through and through stitching to said upper materials, shank and heel piece and insole rearwardly to a point forward of the heel breast, and rearwardly from said point to the heel breast to the upper materials and heel and shank piece only, said insole being free of said stitching from said point rearwardly, said stitching, from the heel breast rearwardly for a predetermined distance, uniting the upper materials and shank and heel piece only, and a reduced beveled portion of said outsole acting as a filler for the seat of said heel.

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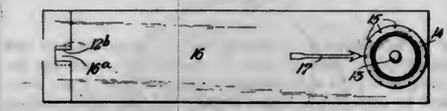
1,693,543. DUMPING BODY. FRED BISZANTZ, Galion, Ohio, assignor, by mesne assignments, to The Central Ohio Steel Products Company, Galion, Ohio, a Corporation of Ohio. Filed Dec. 28, 1927. Serial No. 243,085. 10 Claims. (Cl. 298—19.)



1. In a dumping body assembly for vehicles, a frame, a body mounted for oscillation thereon, a shaft, connections between the shaft and body whereby the body is oscillated as the shaft is rotated, means locking said shaft against rotation in both directions in all positions of the body and a manually operable element rotatable in both directions, said element when rotated in either direction initially releasing the means locking the shaft against rotation in such direction and then operatively engaging the shaft to rotate the same in such direction.

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1,693,544. CLOSURE LOCK. MILON H. BORZIN and ARSENIE MITAU, Chicago, Ill. Filed Nov. 11, 1926. Serial No. 147,830. 3 Claims. (Cl. 206—1.5)



1. The combination in a box or the like having side walls and end walls, a closure thereon and having substantially interlocked engagement with one of said end walls, a pivot extending from the other one of said end walls, said closure having a slot through which said pivot extends, a stud extending up from said closure, and a rotary member on said pivot and having an annular recess and a radially disposed recess communicating with one another and adapted to receive said stud alternately, for the purpose specified.

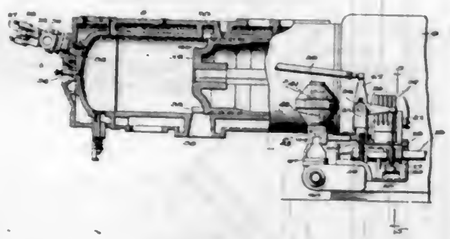
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1,693,545. TEAT DILATOR. CHARLES BROERSMA, Tony, Wis. Filed Mar. 23, 1927. Serial No. 177,582. 5 Claims. (Cl. 128—341.)



1. A device for opening an udder comprising an elongated piece of absorbent animal tissue, said member being sterilized and adapted to have its end inserted in the opening in an udder so as to absorb moisture therefrom and expand therein.

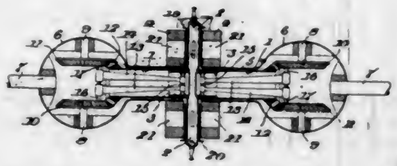
1,693,546. FUEL-INJECTION MECHANISM. CHARLES PAUL CLARK, Olean, and CARL A. BJORNNSON, Wellsville, N. Y., assignors to Clark Brothers Company, Olean, N. Y., a Corporation of New York. Filed Apr. 25, 1927. Serial No. 186,329. 5 Claims. (Cl. 123—69.)



5. In an internal combustion engine, the combination with a cylinder, a valve for regulating the admission of fuel thereto, a source of fuel supply communicating with the valve, a governor controlled valve interposed between the source of fuel supply and the first-mentioned valve, a lay shaft operated by the engine, and geared to and for actuating said governor controlled valve, cam actuated levers controlled by said lay shaft, and a push rod connected with said cam actuated levers for actuating the first-mentioned valve.

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1,693,547. INTERNAL-COMBUSTION ENGINE. EDWARD E. CLEMENT, Ocean City, N. J. Filed Oct. 7, 1921. Serial No. 506,146. 24 Claims. (Cl. 60—11.)

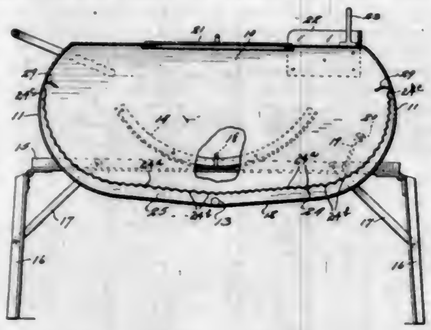


2. In an engine the combination of a rotor element and a reciprocating element co-axial therewith, means for imparting power to both elements, a transverse shaft journalled on said rotor, means connecting said reciprocating element with said transverse shaft to turn the same, a bevel gear in fixed connection with said reciprocating element, gearing meshing with said bevel and driven by said shaft against the same whereby said rotor may drive the reciprocating element or the reciprocating element may drive the rotor, and means for taking power from both in reciprocally varying proportions.

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1,693,548. WASHING MACHINE. DAVID A. CORRIE, Vincennes, Ind., assignor of one-half to Joseph J. Risch, Vincennes, Ind. Filed May 7, 1927. Serial No. 189,674. 1 Claim. (Cl. 68—21.)

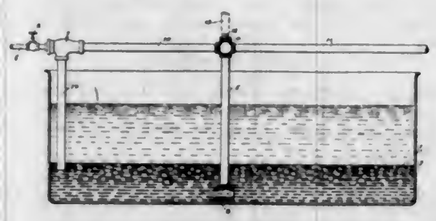
A washing machine of the character described including a supporting frame, a receptacle mounted for rocking movement upon the frame, the receptacle having upwardly extending rounded ends and having longitudinally extending rails disposed in the bottom of said receptacle at each side thereof and formed with upwardly extending studs, and a perforated screen disposed within the receptacle and resting upon said rails and being thus supported in spaced relation to the bottom and ends of the receptacle, the screen having upwardly rounded end portions, the screen being transversely corrugated and being formed with apertures at its margins through which said studs engage whereby the screen may be detachably held upon the framing members, and baffles extending inward from the wall of the receptacle at each end of the screen and



by which water discharged at the ends of the screen is directed downward upon the clothes as the receptacle is rocked.

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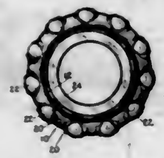
1,693,549. APPARATUS FOR DEHYDRATING TAR. ROGER CRILLY, Elizabeth, N. J. Filed May 20, 1927. Serial No. 192,937. 2 Claims. (Cl. 196—3.)



1. An apparatus of the character described, including a tank adapted to receive a tar emulsion, a pipe coupling having four nipples and located above the tank, a plug normally closing the upper of said nipples, a vertical pipe communicating with the lower of said nipples and having its lower end adjacent the bottom of the tank, alined horizontal pipes connected to the other of said nipples, a steam jet connected to one of said last mentioned pipes, and a vertical pipe connected to the bottom of the steam jet and projecting into the tank.

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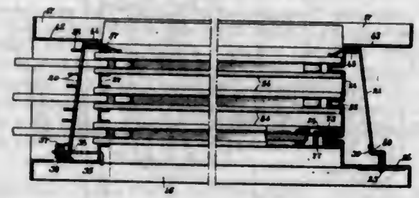
1,693,550. METHOD OF MAKING BEARING SEPARATORS. THOMAS C. DELAVAL-CROW, Bristol, Conn., assignor to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Mar. 13, 1923. Serial No. 624,705. 3 Claims. (Cl. 29—148.4.)



1. That improvement in the method of making separators for balls of a ball bearing which consists in pressing a ring out of sheet metal, and utilizing balls slightly larger than those of the bearing for pressing spherical bearing surfaces into the ring to engage the bearing balls in use.



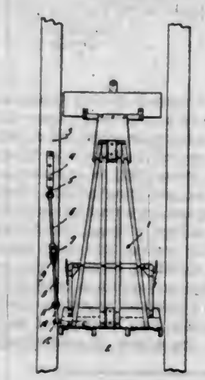
1,693,551. WINDOW CONSTRUCTION. FRANK X. GRASER, Lindenhurst, N. Y. Filed Feb. 7, 1928. Serial No. 252,557. 12 Claims. (Cl. 20—51.)



1. A window including a stationary frame, a frame hingedly mounted therein and a plurality of sashes carried by the swinging frame capable of removal by a lateral sliding movement through the free side of the hinged frame when the latter is ajar for cleaning or repairs.

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1,693,552. ELEVATOR SUPPORT. FRED HENDERSON, Bisbee, Ariz. Filed Oct. 15, 1927. Serial No. 226,417. 1 Claim. (Cl. 187—73.)

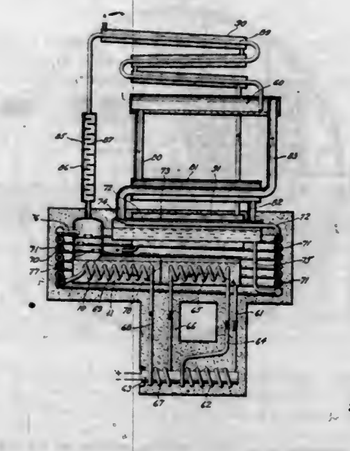


In combination with a cage and its shaft, a metallic strap secured on one of the timbers of the shaft, the lower end of the strap being formed with an eye, an elongated rod having an eye formed at its upper end for interfitting engagement with the aforementioned eye, a turnbuckle secured at its upper end on the lower end of said rod, an eye bolt having its upper end threaded into the lower end of the turnbuckle, a link attached to the eye portion of the eye bolt and a hook secured on the bottom of the cage at one side thereof and extending outwardly therefrom for detachable engagement with said link.

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1,693,553. REFRIGERATION. CARL GEORG MUNTERS, Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 14, 1928, Serial No. 306,007, and in Sweden Apr. 6, 1926. 13 Claims. (Cl. 62—178.)

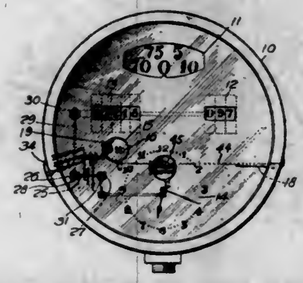
3. That improvement in the art of refrigerating through the agency of an absorption system which consists in simultaneously and continuously withdrawing weak absorption liquid from a main body thereof heating the withdrawn liquid to produce a flow motivating force moving the withdrawn liquid into absorptive contact with a vaporised cooling agent under influence of the flow motivating force, transferring heat from the heater withdrawn portion to said main body on its way to the said absorptive contact, conducting enriched absorption liquid back to the same said main body and transferring heat



into the returning rich absorption liquid from the weak heated withdrawn liquid before the withdrawn liquid becomes enriched by said absorptive contact.

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1,693,554. SIGNAL FOR MOTOR VEHICLES. MARVIN SMITHEY, Lawrenceville, Va., assignor to L. P. Smithey and Nellie C. Smithey, Roanoke, Va. Filed Aug. 13, 1920, Serial No. 403,252. Renewed Feb. 24, 1925. 10 Claims. (Cl. 116—115.)



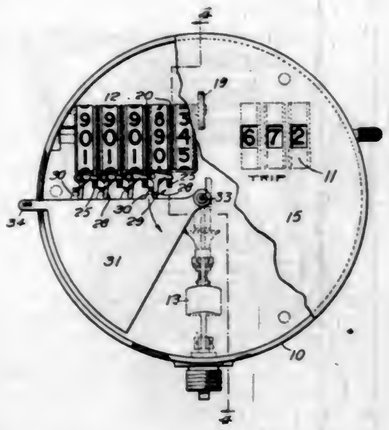
4. An indicator for motor vehicles comprising a device for calling attention to some matter in relation to the vehicle and a plurality of dissimilar control mechanisms for said device, each of which acts independently of another whereby if one does not render said device active, another will.

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1,693,555. SIGNAL OR INDICATOR FOR MOTOR VEHICLES. MARVIN SMITHEY, Lawrenceville, Va., assignor to L. P. Smithey and Nellie C. Smithey, Roanoke, Va. Filed Oct. 10 1921, Serial No. 506,594. Renewed Jan. 3, 1925. 6 Claims. (Cl. 116—114.)

4. A warning or signal device for motor vehicles including a movable signal member, and means for the display

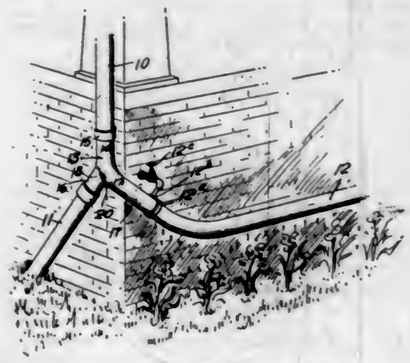
of the signal operating on a mileage basis comprising an odometer and a control element at the side of one of the odometer wheels and shiftable rotatably to various posi-



tions, comprising a disk with a notch in its periphery, whereby the mileage period may be varied and member resetting means.

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1,693,556. SPRINKLING SYSTEM. LENORA SPENCER, Hot Springs National Park, Ark. Filed May 14, 1927. Serial No. 191,348. 1 Claim. (Cl. 299—58.)

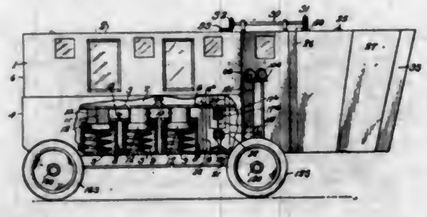


In a sprinkler system, the combination with a rainwater receiving down spout, a soil pipe connected thereto, a sprinkler connected to the spout adjacent its connection with the soil pipe, a manually controlled valve within the connection between the down spout, soil pipe and sprinkler for directing the rain water from the spout into either the soil pipe or sprinkler, and a separate water supply connected to the sprinkler, and a valve for controlling said water supply connection.

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1,693 557. AIRCRAFT. ROBERT LEE WRIGHT, Los Angeles, Calif; Willie Crockett Wright administrator of said Robert Lee Wright, deceased. Filed July 23, 1923. Serial No. 653,263. 7 Claims. (Cl. 244—25.)

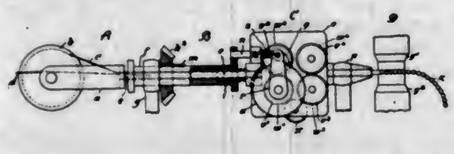
7. An aircraft comprising a body, ground wheels mounted upon each side thereof, a substantially conical and spirally formed propeller centrally mounted and outwardly extending with respect to each of said wheels, a pair of motors a drive shaft, a plurality of driven shafts connected to said wheels and adapted to be geared to the



drive shaft, and a plurality of clutches operatively arranged whereby power may be taken through either one motor or the other.

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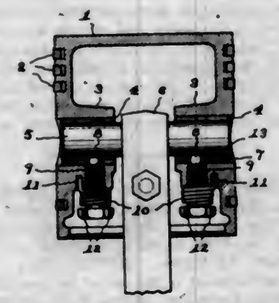
1,693,558. AUTOMATIC MANUFACTURING OF BEAD CHAINS. KARL DÜRR, Pforzheim, Germany. Filed Oct. 18, 1926, Serial No. 142,443, and in Germany Oct. 10, 1925. 1 Claim. (Cl. 59—2.)



In a machine for manufacturing bead-chains to which are fed simultaneously a metal-band from which the beads are to be formed and a wire which on a parallel working machine has been shaped to form the intermediate links between the beads, comprising in combination with swaging dies two pairs of moulding rollers arranged one pair behind the other, means for simultaneously feeding to said pairs of moulding rollers a metal band and a fashioned wire the latter being rolled into said metal band when the same is being rolled to form a tube, and means for rotating said rollers at uniform circumferential speed to give to said metal tube and wire the rotating movement which is necessary for the forming of beads presenting successive faces to the action of said swaging dies.

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1,693,559. DEVICE FOR TAKING UP LOOSENESS IN BEARINGS. LEO W. HALL, Perkins Township, Erie County, Ohio. Filed Aug. 22, 1925. Serial No. 51,745. 1 Claim. (Cl. 308—67.)



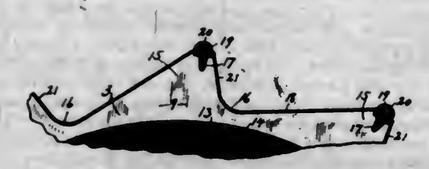
A device of the character described, including a supporting boss, a tubular bearing arranged within the same and formed with a lateral opening, a main pin received within the tubular bearing, a bearing pin supplemental to the tubular bearing arranged loosely within the lateral



opening of the tubular bearing and engaging the main pin, an adjusting screw threaded in the boss and engaging the bearing pin, said adjusting screw being formed with a head having a series of wire engaging notches therein, and a helical spring surrounding the adjusting screw and having one end thereof in engagement with the supporting boss while the other end thereof is in engagement with a selected notch in the head of the screw whereby the spring can be placed under proper tension to automatically rotate the screw and progressively move the bearing pin inwardly and maintain it in engagement with the main pin to prevent looseness when the main bearing wears.

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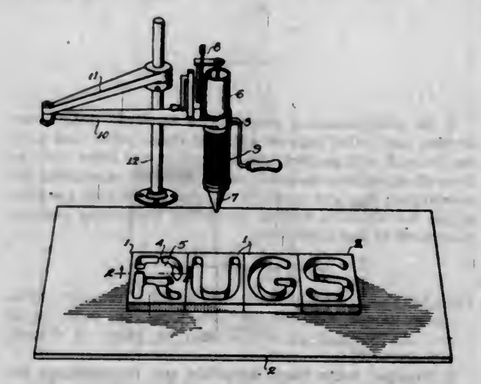
1,693,560. PAPER-STOCK STRAINER. JOHN D. HASKELL and MORTIMER R. RUST, Fulton, N. Y., assignors to Dilts Machine Works Incorporated, Fulton, N. Y., a Corporation of New York. Filed Dec. 8, 1924. Serial No. 754,626. 1 Claim. (Cl. 141—12.)



In a paper stock strainer, a vat having a channel through which the stock is caused to move in one direction, a frame hingedly mounted on the vat to swing vertically about a horizontal axis, a screen drum journaled on the frame to rotate about an axis parallel with and some distance from the axis of movement of said frame, said drum having its lower side immersed in and actuated by the flowing stock, a siphon pipe extending from the exterior into the interior of the screen drum coaxial with the axis of rotation of said drum and having its outer end provided with a branch pipe extending across the axis of movement of said frame, a siphon discharge pipe, said branch pipe having turning connection with the discharge pipe coaxial with the axis of movement of said frame, an air exhauster connected to one of the siphon pipes, and means for passing water through the exhauster and into the vat for exhausting air from the siphon pipes sufficient to start the siphoning of dirty water from the interior of the drum and for supplying fresh water to the interior of the vat.

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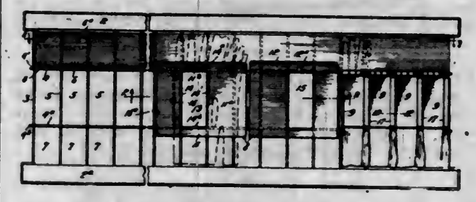
1,693,561. METHOD OF MAKING EMBOSSED DESIGNS. BERNARD G. KLEIN, Chicago, Ill. Filed Aug. 2, 1928. Serial No. 296,969. 2 Claims. (Cl. 41—24.)




1. The method of making embossed designs which consists in providing a fusible medium and a base to which said medium will adhere, placing upon the base a matrix having an unrestricted open back and defined by walls to which said medium will not adhere, introducing the fused medium through the back of said matrix, allowing said medium to congeal with convex meniscus, and then separating said matrix and base.

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1,693,562. FABRIC FRAME AND FABRIC-MOUNTING APPARATUS FOR EMBROIDERY MACHINES. PAUL OTTO MOTHES, North Bergen, N. J., assignor of one-half to Stein-Tobler Company, Inc., a Corporation of New York. Filed Nov. 13, 1926. Serial No. 148,187. 4 Claims. (Cl. 112—90.)



1. A fabric-frame for embroidery machines comprising supporting members extending longitudinally of the embroidery machine, a series of outer tambour-frame elements irremovably and permanently connected to said supporting members, and movable inner tambour-frame elements adapted to frictionally engage pieces of material between themselves and said outer elements and means for initially stretching individual pieces of fabric over said outer frame elements and guiding the insertion of said inner element within the outer element.

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1,693,563. HOLLOW TOY FIGURE. HEINRICH MÜLLER, Nuremberg, Germany. Filed July 7, 1927, Serial No. 203,933, and in Germany Apr. 30, 1926. 2 Claims. (Cl. 132—83.)



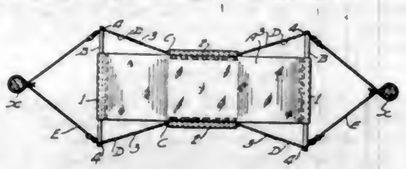
1. A vanity case in the form of a toy-figure comprising two body sections hinged so as to be opened and closed, a semi-cylindrical extension on the upper end of one section of the body, a projection on the upper end of the other section of the body having a lower semi-cylindrical portion matching said semi-cylindrical extensions and an upper cylindrical portion, and a removable head adapted to be fitted over the said neck extensions of the body sections so as to hold the same in closed position.

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1,693,564. HAMMOCK. PAUL J. MURPHY and GREGORY B. SONTAG, St. Louis, Mo., assignors to St. Stanislaus Seminary, Florissant, Mo., a Corporation of Missouri. Filed Nov. 5, 1926. Serial No. 146,364. 2 Claims. (Cl. 5—122.)

1. A hammock, comprising a flexible supporting member, transversely-disposed rigid end members of considerably

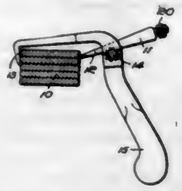
greater length than the width of said supporting member joined to the ends of same, rigid side members located adjacent the center of said supporting member and combined



with the side edges of same, flexible inclined stays attached to said side members and to said end members, and flexible sustaining devices attached to said end members.

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1,693,565. LUBRICATING APPARATUS. WALTER H. PIERCE, Watertown, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Mar. 14, 1922. Serial No. 543,549. 4 Claims. (Cl. 81—3.7.)



3. Lubricating means for leaf-springs comprising wedge means having a toggle action for wedging one leaf away from the rest of the spring, and means for injecting lubricant between the separated leaves, said wedge means moving past dead center position when completely attached to the spring, thereby to hold the device on the spring.

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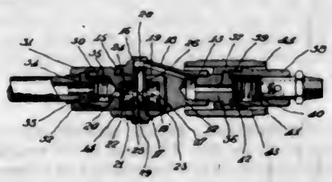
1,693,566. FISH SCALER. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 23, 1926. Serial No. 90,013. 2 Claims. (Cl. 17—3.)



1. A fish scaler having a handle, one extremity of which is bent downwardly to form a flange, and a strip of metal secured at its ends to the flange to form a head and having teeth along its lower edge, the metal being bent to form a sharp angle.

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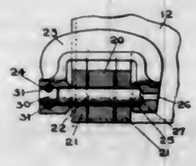
1,693,567. LUBRICATING APPARATUS. JOHN N. ROBIN, Chicago, Ill., assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 27, 1923. Serial No. 634,943. 14 Claims. (Cl. 285—104.)



1. A coupling device for high pressure lubricating systems comprising a first body member, one end of which has a bore formed therein, and the other end of which is bifurcated, the inner sides of the bifurcations being flat and parallel, one of said bifurcations having an internally threaded depression formed in its inner side, and the other of said bifurcations having an opening extending therethrough in registry with said depression, said first body member having a duct therein for establishing communication between said bore and the bottom of said depression, a swivel member having one end secured in said bore and having a bore communicating with said first named bore, a coupling sleeve swiveled on said swivel member, a second body member, one end of which has a bore formed therein, and the other end of which has parallel sides received between said bifurcations, there being a laterally opening depression formed in said last named end of said second body member and communicating with said last named bore, a washer for closing the open end of said depression, a screw extending through the openings in said bifurcation and washer and threaded into said internally threaded depression, said screw having a longitudinal bore communicating with said duct and a lateral bore for establishing communication between said last named bore and the depression in said second body member, oppositely disposed cup leathers in said last named depression, a spring for holding one of said cup leathers in contact with the bottom of said last named depression, and the other of said cup leathers in contact with said washer, and a cup-shaped member swiveled upon the end of said second body member which is provided with a bore, said cup-shaped member having an opening through the bottom thereof for establishing communication between it and the bore in the last mentioned end of said second body member.

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1,693,568. CONVEYER FOR HEATING FURNACES. DAVID L. SUMMEY, Waterbury, Conn. Original application filed July 28, 1923, Serial No. 654,295. Divided and this application filed Mar. 26, 1927. Serial No. 178,650. 5 Claims. (Cl. 198—151.)

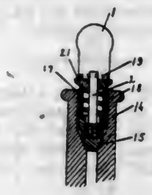


1. In combination, a plurality of conveyer links, overlapping perforated lugs on adjacent links, pivot pins passing through said perforations to connect the links into the form of an endless conveyer chain, shackles straddling the overlapping lugs and in which the ends of the pins are journaled, the shackles having means for preventing endwise movement of the pivot pins.

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1,693,569. STOPPER FOR BOTTLES. THEODOR WILHELM, Zurich, Switzerland. Filed Oct. 28, 1926, Serial No. 144,722, and in France Mar. 6, 1926. 2 Claims. (Cl. 215—52.)

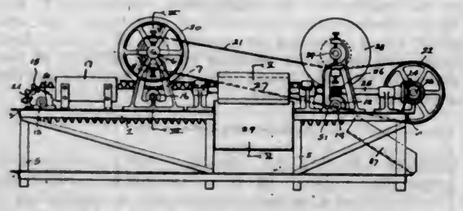
1. Stopper made from materials not transmitting the heat, the stopper fitted with a cylindrical part and a round head, a pin, fixed into the head of the stopper, a washer fitting tightly around the pin, made from material transmitting the heat, an elastic ring around the pin, an air tight chamber between elastic ring, washer and stopper, a lever on top of the pin, pressing the washer down, whereby



the elastic expanding ring is pressed against the wall of the bottle by the compressed air and the stopper is arrested in the bottle.

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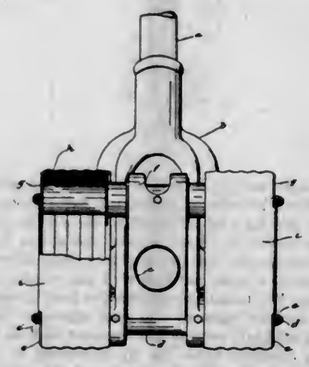
1,693,570. FISH-CLEANING MACHINERY. BALDWIN VALE, San Francisco, Calif., assignor to Roy L. Daily, San Francisco, Calif. Filed June 30, 1924. Serial No. 723,250. 8 Claims. (Cl. 17—3.)



1. In a fish cleaning machine, fish cutting means, endless conveying means to move the fish into engagement with said cutting means, clamps on the conveyor to retain the fish thereon, a depression plate having an upwardly curved end positioned above the conveyor, and a second plate having upwardly and inwardly inclined ends positioned between the parallel sides of the conveyor and below the depression plate to move the conveyor upwardly to cause the fish to contact with the depression plate whereby the fish are firmly engaged by said clamps.

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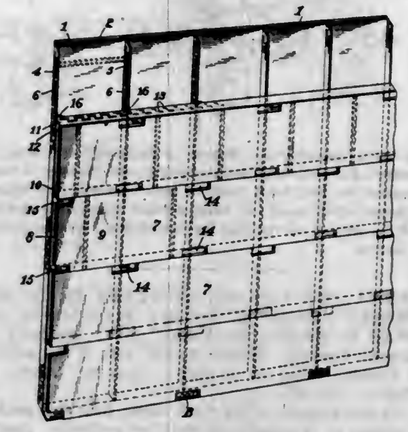
1,693,571. SHOCK ABSORBER. LESTER BENSON, Willoughby, Ohio, assignor to The Glenn L. Martin Co., Cleveland, Ohio, a Corporation of Ohio. Filed June 9, 1926. Serial No. 114,755. 2 Claims. (Cl. 267—63.)



1. In a shock absorber of the class described, the combination with the supporting and supported members thereof, comprising opposite spools, of a plurality of rubber strands extending from spool to spool and operatively connecting the same to prevent the transmission of shock from the one to the other, and a replaceable rubber closure for said spools and rubber strands protectively inclosing the same and augmenting the shock absorbing quality, substantially as set forth.

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1,693,572. INTERIOR-WALL CONSTRUCTION. JACOB B. BLAW, Atlantic City, N. J.; Sadie H. Blaw executrix of said Jacob B. Blaw, deceased. Filed Apr. 29, 1927. Serial No. 187,554. 6 Claims. (Cl. 72—46.)



1. A plaster slab for walls and ceilings having angular reinforcing members extending along their long dimensions, each of said slabs having cut out portions adjacent the reinforcements and at the four corners of the slabs and wooden blocks placed within certain of said cut away portions.

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1,693,573. CELLULOSE PRODUCT AND METHOD FOR PRODUCING SUCH PRODUCT. WILLIAM W. CARTER, Needham, Mass., assignor of one-half to Henry T. Nelson, Boston, Mass. Filed Dec. 27, 1922. Serial No. 609,297. 3 Claims. (Cl. 91—68.)



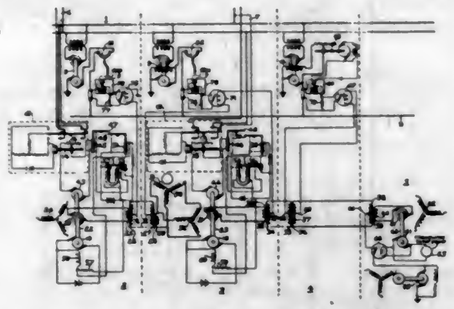
1. The method of producing a sized xanthated fibre which comprises permeating the fibre with the size prior to xanthation and then xanthating the fibre.

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1,693,574. SYSTEM OF DISTRIBUTION. ALMON W. COPLEY, San Francisco, Calif., and ROBERT D. EVANS, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed Nov. 7, 1917, Serial No. 200,664. Divided and this application filed May 28, 1923. Serial No. 641,872. 43 Claims. (Cl. 171—312.)

39. In a regulator system, a supply circuit, a measuring device actuated in accordance with supply-circuit con-

ditions, a pulsating-current generator controlled thereby, and means controlled by said device and generator for governing the load on said circuit.



42. In a distribution system, a distribution circuit, a plurality of translating devices connected thereto, a relay responsive to the total load on said devices and means associated with each of said devices controlled jointly by said relay and by the load on each device, for controlling said device.

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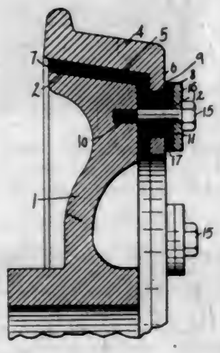
1,693,575. PREPARATION OF FRESH FRUIT FOR MARKET. ERNEST M. BROGDEN, Santa Monica, and MILES L. TROWBRIDGE, Palms, Calif., assignors to Brogdex Company, Winter Haven, Fla., a Corporation of Florida. Filed Dec. 2, 1925. Serial No. 72,808. 11 Claims. (Cl. 99—1.)

1. In the preparation of fresh citrus fruit for market, the process of treating such fruit for protection against blue mold and other forms of decay, which comprises subjecting the entire surface of fresh citrus fruit to the conjoint action of soap and borax in aqueous solution and in concentration sufficient to exert a substantial inhibiting effect on blue mold.

7. As a new article of manufacture, a composition comprising a mixture of a mold-retardant and an oil-solubilizing agent in finely divided solid condition, the proportion of said oil-solubilizing agent being less than that of said mold-retardant.

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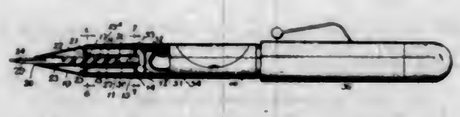
1,693,576. CAR WHEEL. JAMES E. HALE, Summit County, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 20, 1927. Serial No. 200,037. 1 Claim. (Cl. 295—11.)



A car wheel comprising a wheel body having a tapered outer periphery, a tire adapted to fit about the body and having a tapered inner periphery, a layer of rubber under compression located between the outer periphery of the wheel and the inner periphery of the tire about their adjacent surfaces, and securing means to hold the elements together, said securing means being seated in one of the elements but maintained out of contact with the other element by a cushioning medium.

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1,693,577. MAGAZINE PENCIL. JOHN STRAKA, Chicago, Ill., assignor, by direct and mesne assignments, to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 25, 1920, Serial No. 412,796. Renewed Oct. 31, 1925. 10 Claims. (Cl. 120—18.)



4. A lead pencil comprising a handle open at one end, a pencil tip rotatably and removably engaging the open end of said handle, a helical guide having a portion located within said tip, complemental clutch means carried by the handle and the helical guide respectively to normally prevent relative rotation of said handle and said guide, a lead propelling pin operable in and by said helical guide, and means for effecting relative rotation of said guide pin and said helical guide during relative rotation of said handle and said tip.

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1,693,578. MAGAZINE PENCIL. JOHN STRAKA, Chicago, Ill., assignor, by direct and mesne assignments, to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 18, 1921. Serial No. 462,146. 18 Claims. (Cl. 120—18.)



7. A pencil having a hollow body, a tip therefor removably fitted thereto to rotate relative thereto, a spiral carried by the tip and extended to lie within the body, a plunger mounted to travel within the spiral to advance a lead therethrough, an element projecting laterally from the plunger to a point exteriorly of the spiral, and means surrounding the spiral and within the body forming a longitudinal channel open at the end adjacent the tip and adapted to slidingly engage said element to hold the plunger against rotation when the tip is turned to effect propulsion of the plunger, the tip together with the parts carried thereby being removable from the channeled means and body by direct longitudinal movement of the tip relative to the body substantially as described.



1,693,579. MAGAZINE PENCIL. JOHN STRAKA, Kent, Ohio, assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 16, 1922. Serial No. 582,142. 3 Claims. (Cl. 120—18.)



1. In a mechanical pencil, a hollow barrel forming a handle portion, an inner tube in said hollow barrel of reduced cross-sectional area at one end, a tip rotatably and removably secured at one end of said barrel, an extension on said tip adapted to extend into the reduced end of said inner tube, a lead propeller in said extension, and a clearance space between said reduced end of the inner tube, and said hollow barrel to receive extra leads which become readily accessible upon removal of the tip.

3. In a pencil, a hollow barrel, an inner tube located within the barrel and having a reduced portion spaced from the interior of the barrel to provide a lead magazine, said inner tube also having an enlarged portion providing an extra lead magazine, and removable closure means for the respective magazines.

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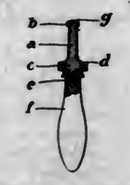
1,693,580. MECHANICAL PENCIL. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 12, 1924. Serial No. 705,979. 6 Claims. (Cl. 120—18.)



4. In a mechanical pencil, a barrel, inwardly offset elongated members in said barrel, a detachable tip mounted on one end of said barrel, an elongated tube fixed to said tip to extend within said barrel between said offset members, lead feeding mechanism associated with said tube, said tube having resilient gripping means to be engaged between said offset members to detachably secure said tip to said barrel.

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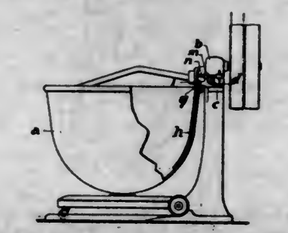
1,693,581. EAR-CLEANING IMPLEMENT. RODOLF ETLING, Barcelona, Spain. Filed Mar. 9, 1928, Serial No. 260,382, and in Germany Nov. 25, 1927. 2 Claims. (Cl. 128—304.)



1. An ear cleaning implement comprising a handle, a stem thereon with a thickened front end, a cone arranged between said handle and stem, a clamping ring on the latter, and an exchangeable piece of soft material stretched over and around said stem and at its ends held in place by said clamping ring.

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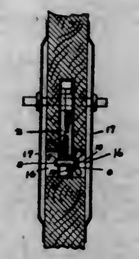
1,693,582. DOUGH-KNEADING MACHINE. FRIEDRICH KÖCHY, Kloster-Groningen, near Halberstadt, Germany. Filed Apr. 5, 1928, Serial No. 267,698, and in Germany Feb. 21, 1928. 4 Claims. (Cl. 259—88.)



1. In a dough-kneading machine, the combination with a machine frame and with a revolving trough, of a brake in the form of a scraper arranged in the trough and shaped in conformity with the wall thereof, a double-armed lever pivoted to the machine frame and carrying said scraper, and a screw spindle supported by the machine frame and bearing against one arm of said lever for applying the scraper to the trough with greater or less force according to its adjustment.

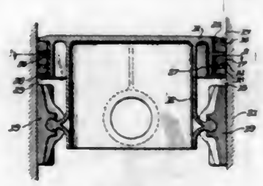
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1,693,583. LOCK. FRANK CONLY, Indianapolis, Ind. Filed Dec. 28, 1926. Serial No. 157,582. 4 Claims. (Cl. 70—14.)



1. The combination with a lock including face plates and having a key operated locking bolt, of means independent of the key adapted to move said bolt to locked or unlocked position, said independent locking means being positioned below said face plates for excluding said independent bolt operating means from view.

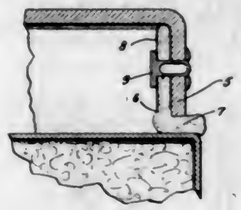
1,693,584. PISTON. IRA A. WEAVER, Springfield, Ill. Filed June 9, 1927. Serial No. 197,628. 5 Claims. (Cl. 74—108.)



1. A piston for internal-combustion engines having a piston-ring groove and a piston-ring therein and means to cause a portion of the gases under pressure above the piston to pass through the space afforded by the piston ring-groove back of the piston-ring to blow out its contents.

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1,693,585. AIR FILTER. WILLIAM M. REED and CHESTER P. HEGAN, Louisville, Ky., assignors to Reed Air Filter Company, Louisville, Ky., a Corporation of Kentucky. Filed Mar. 3, 1926. Serial No. 91,860. 4 Claims. (Cl. 183—52.)

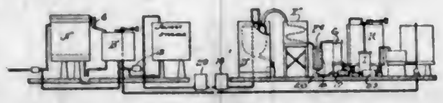


1. In an air filter comprising a unit filter cell and surrounding frame, a gaset adapted to prevent leakage between said cell and its surrounding frame, said gasket comprising a strip of flexible material having a substantial portion of its area rigidly secured to said frame, but having an edge free to flex between said frame and cell.

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1,693,586. PROCESS OF RECOVERING RESINOUS BY-PRODUCTS IN THE MANUFACTURE OF WOOD PULP. EDWARD H. FRENCH, Columbus, Ohio. Filed Aug. 15, 1925. Serial No. 50,526. 6 Claims. (Cl. 203—4.)

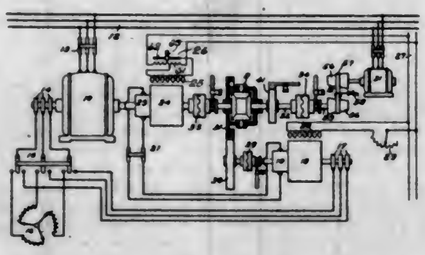
1. A process of recovering rosin from liquors obtained by the alkaline treatment of resinous wood consisting in liberating impure rosin from the alkaline liquors by passing an acid gas through said liquor, removing said liberated rosin from said liquor, dissolving the removed impure



rosin in a hydrocarbon solvent, distilling the solution of rosin and solvent under a high vacuum, condensing and separating the rosin from the solvent.

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1,693,587. INDUCTION-MOTOR-CONTROL SYSTEM. HENRY V. NYE, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 30, 1920, Serial No. 400,199. Renewed Sept. 19, 1925. 19 Claims. (Cl. 172—274.)



2. In combination, an induction motor having a phase wound secondary, and means for controlling the speed of said induction motor, said controlling means comprising a direct current source of variable voltage, a rotary converter electrically connectible between said source of direct current voltage and the secondary of said induction motor, a differential mechanical connection between said induction motor and said rotary converter, and means for causing the application of a driving torque through said differential connection to the shaft of said converter when the speed of the latter closely approaches zero.

19. In combination, an alternating current motor having relatively rotatable elements, one of said elements being provided with a primary inducing winding and a second element having a winding, and means for controlling the operation of said motor comprising a source of variable frequency including an electrical converter operable to supply current of variable frequency and electrically connectible to the winding of said second element of the motor, and a variable speed mechanical connection between said motor and a rotatable element of said converter.

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Nov. 6, 1928

# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aarons, Alfred. (See James, William B., assignor.)
Acheson Harden Co., The, New York, N. Y. Handkerchiefs. 249,077; Nov. 6; Serial No. 267,330; published Aug. 14, 1928. Class 42.
Agfa Ansco Corporation. (See Ansco Photoproducts, Inc., assignor.)
Alderwood Knitting Mills, Portland, Oreg. Outer garments and knit wear. 249,048; Nov. 6; Serial No. 266,344; published July 24, 1928. Class 39.
Alfieri, Angelina, doing business as Alfieri Cigar Company, New York, N. Y. Cigars. 249,206; Nov. 6. Class 17.
Alpha Laboratories, Chicago, Ill. Special preparation for overcoming intestinal putrefaction, etc. 249,219; Nov. 6. Class 6.
American Nickeloid Company, Peru, Ill. Chromium-coated sheets and rolls of sheet metal. 248,980; Nov. 6; Serial No. 266,846; published Aug. 14, 1928. Class 14.
American Nicotine Company, Henderson, Ky. Nicotine dusting powder. 249,176; Nov. 6; Serial No. 268,839; published Aug. 28, 1928. Class 6.
American Rubber Company, Boston, Mass., assignor to Boston Rubber Shoe Company, Malden and Boston, Mass. Rubber boots, shoes, and clothing. 71,986; renewed Dec. 29, 1928.
Anderson, G. H., Estate, doing business as Howard Fruit Company, San Jose, Calif. Fresh deciduous fruits. 249,122; Nov. 6; Serial No. 253,930; published Aug. 28, 1928. Class 46.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 249,040; Nov. 6; Serial No. 260,308; published Aug. 28, 1928. Class 26.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 249,169; Nov. 6; Serial No. 260,930; published Aug. 28, 1928. Class 26.
Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 249,170; Nov. 6; Serial No. 260,928; published Aug. 28, 1928. Class 26.
Apco Mossberg Corporation. (See Mossberg, Frank, assignor.)
Armstrong Cator Company, The, Baltimore, Md. Women's hats and hat linings. 249,217; Nov. 6. Class 39.
Armstrong Cork Company, Pittsburgh, Pa. Preparation in the nature of a lacquer. 249,032; Nov. 6; Serial No. 266,507; published Aug. 28, 1928. Class 16.
Armsby Preserving Co., assignor, by mesne assignments, to California Packing Corporation, San Francisco, Calif. Canned fruits. 71,250–2; renewed Nov. 10, 1928.
Aron, J., & Company, Inc., New Orleans, La. Green coffee. 248,901–2; Nov. 6; Serial Nos. 209,384–5; published Aug. 21, 1928. Class 46.
Ateha Adler Textildruckgesellschaft, Hamburg m. b. H., Hamburg, Germany. Cotton table covers and counterpanes. 249,126; Nov. 6; Serial No. 252,637; published Aug. 21, 1928. Class 42.
Atlantic City Candy Company (Incorporated), Atlantic City, N. J., assignor, by mesne assignments, to Life Savers, Inc., Port Chester, N. Y. Salt-water taffy. 73,102; renewed Mar. 16, 1929.
Atlantic-Pacific Mfg. Corpn., Brooklyn, N. Y. Life preservers. 249,090; Nov. 6; Serial No. 268,528; published Aug. 21, 1928. Class 22.
Atlas Embroidery Company, West New York, N. J. Embroidered piece goods. 249,060; Nov. 6; Serial No. 257,334; published Aug. 28, 1928. Class 42.
Atlas Publishing Co., Inc., New York, N. Y. Magazine. 249,159; Nov. 6; Serial No. 269,077; published Aug. 21, 1928. Class 38.
Atwood Grape Fruit Company, The, Manavista, Fla. Fresh grapefruit. 248,940; Nov. 6; Serial No. 262,787; published July 3, 1928.
Auspitz, Florence M., doing business as The Corset Shop, York, Pa. Hosiery, corsets, brassières, and girdles. 249,121; Nov. 6; Serial No. 254,442; published July 10, 1928. Class 39.
Bacmo-Footman Co., Inc., New York, N. Y. Leather gloves. 249,031; Nov. 6; Serial No. 266,509; published July 24, 1928. Class 39.
Bamberger, L., & Company, Newark, N. Y. Millinery. 248,976; Nov. 6; Serial No. 266,966; published July 17, 1928. Class 39.
Banks, Chester O., doing business as C. O. Banks Co., Monrovia, Calif. Fresh citrus fruits. 249,158; Nov. 6; Serial No. 269,079; published Aug. 21, 1928. Class 46.
Barager-Webster Company, Eau Claire, Wis. Candy. 249,042; Nov. 6; Serial No. 266,454; published Aug. 21, 1928. Class 46.
Barbour, Perley E., doing business as Barbour Welting Company, Montello Station, Brockton, Mass. Welting for boots and shoes. 249,076; Nov. 6; Serial No. 267,334; published July 24, 1928. Class 39.
Barker-Miller Distributing Company, Phoenix, Ariz. Fresh melons. 248,975; Nov. 6; Serial No. 266,968; published Aug. 28, 1928. Clas 46.
Bausch Lomb Optical Company, Rochester, N. Y. Ophthalmic lenses. 249,015; Nov. 6; Serial No. 268,960; published Aug. 28, 1928. Class 26.
Bayle Food Products Co., St. Louis, Mo. Salted peanuts, salted pecans, peanut butter, etc. 249,214; Nov. 6. Class 46.
Benrose Silk Mfg. Corp., New York, N. Y. Silk piece goods. 249,198; Nov. 6. Class 42.
Berne Mfg. Co., Berne, Ind. Men's work clothing, children's suits, etc. 248,950; Nov. 6; Serial No. 264,066; published July 24, 1928. Class 39.
Berth Robert-Gross Inc., New York, N. Y. Wool fabrics. 249,147; Nov. 6; Serial No. 269,220; published Aug. 21, 1928. Class 42.
Berth Robert-Gross Inc., New York, N. Y. Silk piece goods. 249,148; Nov. 6; Serial No. 269,219; published Aug. 21, 1928. Class 42.
Best & Co., Inc., New York, N. Y. Middies, reefers, hats, etc. 248,996; Nov. 6; Serial No. 265,882. published July 24, 1928. Class 39.
Blumenthal, Sidney, & Co., Inc., New York, N. Y. Pile fabrics. 248,898; Nov. 6; Serial No. 269,506; published Aug. 28, 1928. Class 42.
Bochmann, F. A., & Co., Inc., Philadelphia, Pa. Worsted and woolen piece goods. 248,946; Nov. 6; Serial No. 264,276; published Aug. 28, 1928. Class 42.
Bochmann, F. A., & Co., Inc., Philadelphia, Pa. Worsted and woolen piece goods. 248,947; Nov. 6; Serial No. 264,274; published Aug. 28, 1928. Class 42.
Borgfeldt, Geo., & Co., New York, N. Y. Dolls. 248,926; Nov. 6; Serial No. 265,088; published Aug. 14, 1928. Class 22.
Boston Rubber Shoe Company. (See American Rubber Company; assignor.)
Boye Needle Company, The, Chicago, Ill. Sewing-machine needles and shuttles. 72,417; renewed Jan. 26, 1929.
Boyle, John, & Co., Inc., New York, N. Y. Cotton duck. 72,281; renewed Jan. 12, 1929.
Bradford Dyers' Association, Limited, The, Bradford, England. Cloths and stuffs of wool, worsted, or hair. 71,935; renewed Dec. 22, 1928.
Braithwaite, Isaac, & Son, Engineers, Limited, Kendal, England. Machines for washing garments, etc. 249,047; Nov. 6; Serial No. 266,353; published Aug. 28, 1928. Class 24.
Brenner, Moe, New York, N. Y. Ladies' hats. 248,954; Nov. 6; Serial No. 263,851; published July 10, 1928. Class 39.
Bronston Bros. and Co., Inc., New York, N. Y. Straw, Panama, and felt hats. 248,973; Nov. 6; Serial No. 267,032; published July 24, 1928. Class 39.
Brown, L. L., Paper Company, Adams, Mass. Ledger paper, bond paper, etc. 249,050; Nov. 6; Serial No. 266,297; published Aug. 21, 1928. Class 37.
Bruner, Marion C., doing business as Powder Puff Candy Co., Los Angeles, Calif. Candy. 248,900; Nov. 6; Serial No. 269,388; published Aug. 21, 1928. Class 46.
Burroughs, Wellcome & Co. (See Wellcome, Henry S., assignor.)
Bushnell, Arthur N., jr., assignor to Alvah Bushnell Company, Philadelphia, Pa. File pockets or containers for papers. 249,101; Nov. 6; Serial No. 268,076; published Aug. 21, 1928. Class 37.
Busse, Frank A., Co., Inc., Brooklyn, N. Y. Metal polishes. 249,184; Nov. 6; Serial No. 268,708; published Aug. 21, 1928. Class 4.
C. H. S. Garter Company. (See Suckel, Charles H.)
California Packing Corporation. (See Armsby Preserving Co., assignor.)
Carnesecca, Jacop, doing business as Safe Wash Bleach Co., San Jose, Calif. Bleaching compound. 249,106; Nov. 6; Serial No. 267,833; published Aug. 28, 1928. Class 6.
Carter Dry Goods Company, Inc., Louisville, Ky. Tobacco canvas. 248,993–5; Nov. 6; Serial Nos. 265,885–7; published Aug. 28, 1928. Class 42.
Carty, C. C., Frederick, Md. Cotton-felt mattresses. 72,863; renewed Mar. 2, 1929.
Casca-Terpin Co. (See Pease, Howard R.)
Catskill Paint & Varnish Co. (See Solberg, Arthur.)
Cemroc, Inc., Cincinnati, Ohio. Chemical compound for use in concrete. 248,915; Nov. 6; Serial No. 265,258; published Aug. 21, 1928. Class 6.
Cemroc, Inc., Cincinnati, Ohio. Chemical compound. 248,962; Nov. 6; Serial No. 265,259; published Aug. 21, 1928. Class 6.
Chemische Fabrik Jacobus G. m. b. H., Berlin-Charlottenburg, Germany. Chemical product. 248,952; Nov. 6; Serial No. 263,860; published Aug. 14, 1928. Class 6.
Chocolaterie-Confiserie César Société Anonyme, Antwerp, Belgium. Candies. 248,979; Nov. 6; Serial No. 266,849; published Aug. 21, 1928. Class 46.
Citrus Fruit Association of Ontario, Ontario, Calif. Oranges and grapefruit. 249,130; Nov. 6; Serial No. 245,140; published Aug. 28, 1928. Class 46.

City Mills Company, Columbus, Ga. Wheat flour. 249,030; Nov. 6; Serial No. 268,847; published Aug. 21, 1928. Class 46.

Clemens, Herbert A., doing business as Clemens Chemical Company, Fort Wayne, Ind. Stomach bitters. 248,899; Nov. 6; Serial No. 269,302; published Aug. 28, 1928. Class 6.

Cleveland Garment Manufacturers Association, Cleveland, Ohio. Monthly magazine. 249,151; Nov. 6; Serial No. 269,183; published Aug. 21, 1928. Class 38.

Cleveland Heater Company, The, Cleveland, Ohio. Storage and heating tanks, water heaters, etc. 249,071; Nov. 6; Serial No. 267,406; published Aug. 28, 1928. Class 34.

Collins, Joseph P., St. Louis, Mo. Wrapping paper. 249,006–8; Nov. 6; Serial Nos. 255,896–8; published Aug. 28, 1928. Class 37.

Collins, Joseph P., St. Louis, Mo. Wrapping paper. 249,066–79; Nov. 6; Serial Nos. 255,899–903; published Aug. 28, 1928. Class 37.

Cooper, Joseph B., New York, N. Y. Metals, alloys, and solders. 248,944; Nov. 6; Serial No. 264,358; published Aug. 21, 1928. Class 14.

Corset Shop, The. (See Auspitz, Florence M.)

Craftwoven Fabrics, Inc., Taunton, Mass. Woven cotton fabrics in the piece. 249,010; Nov. 6; Serial No. 255,640; published Aug. 28, 1928. Class 42.

Cribben & Sexton Company, Chicago, Ill. Stoves and ranges and parts of stoves and ranges. 72,145; renewed Jan. 5, 1929.

Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 248,963; Nov. 6; Serial No. 268,427; published Aug. 21, 1928. Class 46.

Crompond Farm, Inc., Yorktown Heights, N. Y. Eggs and butter. 248,997; Nov. 6; Serial No. 265,831; published Aug. 21, 1928. Class 46.

Crowell Publishing Company, The, New York, N. Y. Monthly magazine. 249,014; Nov. 6; Serial No. 268,972; published Aug. 21, 1928. Class 38.

Crystal Chemicals, Inc., Pittsburgh, Pa. Metal-polish cleaning compound. 249,136; Nov. 6; Serial No. 231,983; published Aug. 21, 1928. Class 4.

Curtiss Candy Company, The, Chicago, Ill. Candy. 249,088; Nov. 6; Serial No. 268,590; published Aug. 21, 1928. Class 46.

Curtiss Candy Company, The, Chicago, Ill. Candy. 249,095; Nov. 6; Serial No. 268,489; published Aug. 28, 1928. Class 46.

Dean-Hicks Company, The, Grand Rapids, Mich. Magazine. 248,955; Nov. 6; Serial No. 263,753; published Aug. 21, 1928. Class 38.

Deco Refreshments Inc., Buffalo, N. Y. Finger rolls, sandwich rolls, wieners, etc. 249,172; Nov. 6; Serial No. 260,811; published Aug. 21, 1928. Class 46.

Delbon, Frank G., Brooklyn, N. Y. Leather shoes. 249,223; Nov. 6. Class 39.

De Remont, Napoleon, New York, N. Y. Photographic-negative-retouching tool. 248,938; Nov. 6; Serial No. 261,049; published Aug. 21, 1928. Class 37.

De Rivières, Aline Séré, Paris, France. Perfumes, toilet vinegar, hair lotion, etc. 249,097; Nov. 6; Serial No. 268,130; published Aug. 28, 1928. Class 6.

Devoe & Raynolds Co., Inc., New York, N. Y. Paste and ready-mixed paints, varnishes, and lacquers. 249,094; Nov. 6; Serial No. 268,490; published Aug. 21, 1928. Class 16.

De Welles, I. W. E., Inc., New York, N. Y., and Boston, Mass. Chocolates, candies, and bonbons. 249,189; Nov. 6; Serial No. 268,682; published Aug. 21, 1928. Class 46.

Dewey Portland Cement Company, Kansas City, Mo. Weekly publication. 249,100; Nov. 6; Serial No. 268,086; published Aug. 21, 1928. Class 38.

Diaz, Felix A., doing business as Laboratories Filarysine, Santurce, P. R. Pharmaceutical preparation. 248,932; Nov. 6; Serial No. 261,667; published Aug. 21, 1928. Class 6.

Dietz, R. E., Company, New York, N. Y. Flat-wick burners for oil-burning lamps and lanterns. 72,335; renewed Jan. 19, 1929.

Doughnut Machine Corporation, New York, N. Y. Coffee. 249,162; Nov. 6; Serial No. 269,829; published Aug. 28, 1928. Class 46.

Doxakis, Anest, Haynesville, La. Medicinal preparation. 249,128; Nov. 6; Serial No. 251,179; published Aug. 14, 1928. Class 6.

Drake, Norman C., doing business as Dr. Timm's Medicine Co., Rockville Center, N. Y. Tonic. 248,905; Nov. 6; Serial No. 269,347; published Aug. 28, 1928. Class 6.

Draper-Maynard Company, The, Plymouth, N. H. Basketball shoes. 248,925; Nov. 6; Serial No. 265,099; published July 17, 1928. Class 39.

Duarte Foothill Citrus Association, Duarte, Calif. Oranges. 249,063; Nov. 6; Serial No. 256,457; published Aug. 28, 1928. Class 46.

Dundee Textile Company, Passaic, N. J. Silk in the piece. 249,161; Nov. 6; Serial No. 269,949; published Aug. 28, 1928. Class 42.

Du Pont, E. I., de Nemours Powder Company, as assignee of The Eastern Dynamite Company, Kenvil, N. J., assignor, by mesne assignments, to E. I. du Pont de Nemours and Company, Wilmington, Del. High explosives and blasting caps and fuses. 72,064; renewed Dec. 29, 1928.

Earl, Bertram G., doing business as B. G. Earl & Company, Chicago, Ill. Sweetened skim-milk cocoa. 249,131; Nov. 6; Serial No. 244,349; published Aug. 21, 1928. Class 46.

Earle, Marie, Inc., New York, N. Y. Face powder, dusting powder, etc. 249,004; Nov. 6; Serial No. 267,069; published Aug. 14, 1928. Class 6.

Eastern Dynamite Company, The, as assignee. (See Du Pont, E. I., de Nemours Powder Company.)

Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Elfie, Inc., New York, N. Y. Children's, girls', and women's clothing. 249,134; Nov. 6; Serial No. 240,812; published July 24, 1928. Class 39.

Ely & Walker Dry Goods Company, St. Louis, Mo. Blankets. 249,001; Nov. 6; Serial No. 254,900; published Aug. 7, 1928. Class 42.

Endicott Johnson Corporation, Endicott, N. Y. Rubber soles and heels and rubber footwear. 248,961; Nov. 6; Serial No. 265,371; published July 17, 1928. Class 39.

Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y. Fabric hose. 71,467; renewed Nov. 24, 1928.

Evansville Paint & Varnish Co. See Red Spot Paint & Varnish Co.)

Excelsior Brewery Inc., Brooklyn, N. Y. Malt syrup and pretzels. 249,118; Nov. 6; Serial No. 267,544; published Aug. 21, 1928. Class 46.

Excelsior Motor Mfg. & Supply Co., Chicago, Ill. Refrigerating machines. 249,020; Nov. 6; Serial No. 268,919; published Aug. 28, 1928. Class 31.

Fairchild Bros. & Foster, New York, N. Y. Concentrate of the fresh pancreas gland, of the water-soluble constituents. 249,029; Nov. 6; Serial No. 268,857; published Aug. 28, 1928. Class 6.

Fairchild Bros. & Foster, New York, N. Y. Concentrate or extract obtained from citrus fruit. 249,113; Nov. 6; Serial No. 267,761; published Aug. 21, 1928. Class 6.

Federal Tea Company, Inc., Baltimore, Md. Coffee. 248,958; Nov. 6; Serial No. 265,722; published Aug. 7, 1928. Class 46.

Felt & Tarrant Manufacturing Company, Chicago, Ill. Periodical. 249,028; Nov. 6; Serial No. 268,860; published Aug. 21, 1928. Class 38.

Fenton, Z. H., doing business as Ro-Zell's Laboratories, Des Moines, Iowa. Hair tonic and a liquid preparation for the hair. 248,992; Nov. 6; Serial No. 265,959; published Aug. 14, 1928. Class 6.

Fisher, Anna M., Los Angeles, Calif. Talcum powder, face cream and paste, etc. 249,215; Nov. 6. Class 6.

Flako Products Corporation, New Brunswick, N. J. Prepared flour. 249,013; Nov. 6; Serial No. 269,018; published Aug. 21, 1928. Class 46.

Franchina, Louis B., Cleveland, Ohio. Family medicines and toilet articles. 249,140; Nov. 6; Serial No. 203,464; published Aug. 21, 1928. Class 6.

Franks, Louis, doing business as Veleur Toilet Requisites Co., Berkeley, Calif. Hairdressing. 249,046; Nov. 6; Serial No. 266,367; published Aug. 14, 1928. Class 6.

Frentz, Henry A. (See Meyer, Adolph C., assignor.)

Frese, J. C. & Co., Hamburg, Germany. Herb tea. 70,938; renewed Oct. 20, 1928.

Fuerst, Irvin, assignor to Verlaine, Inc., New York, N. Y. Candy. 249,019; Nov. 6; Serial No. 268,921; published Aug. 28, 1928. Class 46.

Funk, Julius H., Company, Atlanta, Ga. Cloth caps. 249,053; Nov. 6; Serial No. 266,083; published July 24, 1928. Class 39.

Gabrielsen, Mrs. Johndine, San Jose, Calif. Special prune confection. 248,966; Nov. 6; Serial No. 268,366; published Aug. 28, 1928. Class 46.

Gallia Silk Mills, Portland, Me. Silk piece goods. 73,082; renewed Mar. 16, 1929.

Gerré, Inc., New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 249,104; Nov. 6; Serial No. 267,945; published Aug. 14, 1928. Class 6.

Geuting, A. H., Company, Philadelphia, Pa. Shoes. 249,133; Nov. 6; Serial No. 241,613; published July 17, 1928. Class 39.

Gillette Safety Razor Company, Boston, Mass. Cutters with replaceable blades. 249,087; Nov. 6; Serial No. 268,600; published Aug. 28, 1928. Class 23.

Gillette Safety Razor Company, Boston, Mass. Cutters with replaceable blades. 249,117; Nov. 6; Serial No. 267,650; published Aug. 28, 1928. Class 23.

Glaze, Charles, Exeter, Calif. Fresh deciduous fruits. 248,970; Nov. 6; Serial No. 268,273; published Aug. 21, 1928. Class 46.

Glosemeyer Flour Co., St. Louis, Mo. Wheat flour. 249,125; Nov. 6; Serial No. 253,588; published Nov. 1, 1927. Class 46.

Goessling and Ferre, Inc., New York, N. Y. Washable suede gloves. 248,953; Nov. 6; Serial No. 263,819; published July 17, 1928. Class 39.

Good Value Hat & Cap Co., Inc., New York, N. Y. Hats and caps. 249,041; Nov. 6; Serial No. 266,462; published July 17, 1928. Class 39.

Gordon Baking Company, Detroit, Mich. Bread. 249,018; Nov. 6; Serial No. 268,923; published Aug. 21, 1928. Class 46.

Gordon Bros. Cap Co., Inc., Chicago, Ill. Caps and hats. 249,054; Nov. 6; Serial No. 266,248; published July 24, 1928. Class 39.



Grady-Travers Company, The, New York, N. Y. Rope. 249,027; Nov. 6; Serial No. 268,864; published Aug. 28, 1928. Class 7.

Grant, George S., Inveraven, Scotland, assignor to W. H. S. Grant, doing business as G. & J. G. Smith, Inveravon, Scotland. Pure malt Scotch whisky. 72,081; renewed Dec. 29, 1928.

Graziadei, Leonardo, assignor, by mesne assignments, to Yankee Polish Co., New York, N. Y. Leather dressings and polishes. 72,713; renewed Feb. 16, 1929.

Great Atlantic & Pacific Tea Company, The, Jersey City, N. J. Coffee and chicory compound. 248,984; Nov. 6; Serial No. 261,112; published Aug. 21, 1928. Class 46.

Grove, William E., Chambersburg, Pa. Tree bands bearing insecticidal material. 248,965; Nov. 6; Serial No. 268,369; published Aug. 14, 1928. Class 6.

Hallock-Denton Co., Newark, N. J. Vanilla extract. 249,135; Nov. 6; Serial No. 239,516; published Aug. 21, 1928. Class 46.

Hamilton, Brown Shoe Company, St. Louis, Mo. Shoes. 249,057; Nov. 6; Serial No. 257,541; published July 17, 1928. Class 39.

Hansen, O. C., Mfg. Co., Milwaukee, Wis. Men's unlined leather street gloves. 248,930; Nov. 6; Serial No. 264,682; published July 24, 1928. Class 39.

Hardware Tire Corporation. (See Sterling Tire Corporation.)

Harvey's Drug Store. (See Rosokoff, Harvey J.)

Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned pineapple. 248,974; Nov. 6; Serial No. 266,992; published Aug. 21, 1928. Class 46.

Hawkins, Orville L., Indianapolis, Ind. Pop-corn confections. 248,935; Nov. 6; Serial No. 261,191; published Aug. 21, 1928. Class 46.

Hawley Pulp and Paper Company, assignor to Hawley Pulp and Paper Company, Oregon City, Oreg. Paper. 73,007; renewed Mar. 9, 1929.

Heinrich & Winterling, Inc., New York, N. Y. China. 249,061; Nov. 6; Serial No. 257,065; published Aug. 28, 1928. Class 30.

Hercules Glue Company, San Francisco, Calif. Spreaders for combination with insecticides. 248,969; Nov. 6; Serial No. 268,280; published Aug. 28, 1928. Class 6.

Herlihy, Julia B., Lynbrook, N. Y. Face and hand lotion. 249,099; Nov. 6; Serial No. 268,097; published Aug. 14, 1928. Class 6.

Hernandez, Miguel J., doing business as Melliere Laboratories, New York, N. Y. Pharmaceutical preparations. 249,049; Nov. 6; Serial No. 266,319; published Aug. 21, 1928. Class 6.

Herndon, Wade S., Wilbanks, N. C. Liquid compound, etc. 248,991; Nov. 6; Serial No. 265,963; published Aug. 28, 1928. Class 6.

Hirt, Carl, Chicago, Ill. Cold, tissue, and vanishing cream. 249,199; Nov. 6. Class 6.

Home Extract Company, Tacoma, Wash. Malt syrup. 249,195; Nov. 6; Serial No. 268,609; published Aug. 21, 1928. Class 46.

Home Game Company, Inc., Mechanicville, N. Y. Table ball games. 248,957; Nov. 6; Serial No. 265,792; published Aug. 21, 1928. Class 22.

Honey Candy Company of America, The, Youngstown, Ohio. Candy. 248,964; Nov. 6; Serial No. 268,374; published Aug. 21, 1928. Class 46.

Hoover Mfg. Co., New York, N. Y. Smocks, gowns, dresses, etc. 248,929; Nov. 6; Serial No. 264,722; published July 17, 1928. Class 39.

Horwath & Horwath, New York, N. Y. Monthly bulletin. 248,971; Nov. 6; Serial No. 268,227; published Aug. 21, 1928. Class 38.

Hotstream Heater Company, The, Cleveland, Ohio. Gas and oil water heaters. 249,045; Nov. 6; Serial No. 266,374; published Aug. 28, 1928. Class 34.

Howard Fruit Company. (See Anderson, G. H., Estate.)

Hunt, David, and Company, Oswego and Cherry Creek, N. Y. Canned fruits and vegetables. 248,936; Nov. 6; Serial No. 261,008; published Aug. 21, 1928. Class 46.

Hyams, Harry H., doing business as Puritan Chemical Company, Cincinnati, Ohio. Blood purifier. 72,819; renewed Feb. 23, 1929.

Imperial Candy Co., Seattle, Wash. Candy. 248,933; Nov. 6; Serial No. 261,573; published June 5, 1928. Class 46.

Improvement Association, Chicago, Ill. Magazine. 249,104; Nov. 6; Serial No. 268,611; published Aug. 21, 1928. Class 38.

Indian Herb Medicine Co. (See Pinto, Joe.)

Isabey-Paris, Inc., Wilmington, Del., and New York, N. Y. Talcum and bath powder, lotions, etc. 248,913–4; Nov. 6; Serial Nos. 269,290–1; published Aug. 28, 1928. Class 6.

Italian Sausage Manufacturing Co., Beaver Falls, Pa. Sausages. 249,160; Nov. 6; Serial No. 269,064; published Aug. 21, 1928. Class 46.

Italian-Swiss Colony, San Francisco, Calif. Potassium salt. 249,221; Nov. 6. Class 6.

Italian Vineyard Co., Guasti and Los Angeles, Calif. Sweet sauterne flavoring, sauce à la bercy, etc. 249,218; Nov. 6. Class 46.

Jacobs, Paul B., doing business as Jaynard Clé, New York, N. Y. Astringents, astringent cerates, beauty creams, etc. 248,912; Nov. 6; Serial No. 269,292; published Aug. 28, 1928. Class 6.

James, William B., assignor to Alfred H. Aarons, Los Angeles, Calif. Telephone dial locks. 249,202; Nov. 6. Class 25.

Janszen Company, The, Cincinnati, Ohio. Salt, baking powder, and sal soda. 248,988; Nov. 6; Serial No. 266,595; published Aug. 28, 1928. Class 6.

Jaynard Clé. (See Jacobs, Paul B.)

Jeffreys, George A., doing business as Jeffreys Laboratories, Calcium, N. Y. Disinfectant and antiseptic. 248,982; Nov. 6; Serial No. 266,817; published Aug. 14, 1928. Class 6.

Johnson & Johnson. (See Lister Surgical Company, assignor.)

Junior Wheel Goods Corporation, Kokomo, Ind. Scooters, kiddie cars, etc. 249,129; Nov. 6; Serial No. 250,997; published Aug. 14, 1928. Class 22.

Kanrich & Feiner, New York, N. Y. Ladies' hats. 249,005; Nov. 6; Serial No. 267,059; published July 17, 1928. Class 39.

Kasko Products Company, Inc., Philadelphia, Pa. Sweetening compound. 248,939; Nov. 6; Serial No. 263,090; published Aug. 21, 1928. Class 46.

Keeler Brass Company, Grand Rapids, Mich. Screws. 248,895; Nov. 6; Serial No. 269,588; published Aug. 28, 1928. Class 13.

Ken-Wel Sporting Goods Co., Inc., New Hartford, N. Y. Baseballs, boxing gloves, etc. 248,987; Nov. 6; Serial No. 266,596; published Aug. 21, 1928. Class 22.

Keystone Laboratories, Memphis, Tenn. Perfumes, toilet water, etc. 249,026; Nov. 6; Serial No. 268,869; published Aug. 28, 1928. Class 6.

Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 249,201; Nov. 6. Class 40.

Kramer, H., & Company, Chicago, Ill. Brass ingots, bronze ingots, pig lead, etc. 249,157; Nov. 6; Serial No. 269,122; published Aug. 21, 1928. Class 14.

Krause, Joseph W., Brooklyn, N. Y. Brassières. 249,216; Nov. 6. Class 39.

Kress, S. H., & Co., New York, N. Y. Assorted bonbons and chocolates 249,017; Nov. 6; Serial No. 268,929; published Aug. 28, 1928. Class 46.

Kronthal, Isador, doing business as Kronthal Manufacturing Company, Chicago, Ill. Children's and misses' hats. 248,916; Nov. 6; Serial No. 265,158; published July 10, 1928. Class 39.

Kunkel Manufacturing Company, The, Hart, Mich. Automobile heaters. 249,038; Nov. 6; Serial No. 259,733; published Aug. 28, 1928. Class 19.

Laboratoires Filarysine. (See Diaz, Félix A.)

Lantz, Benjamin O., Oak Park, Ill. Golf clubs. 249,085; Nov. 6; Serial No. 267,131; published Aug. 14, 1928. Class 22.

La Lysine Fornari Internstional American Corporation, assignor to La Lasine International, Inc., Boston, Mass. Antiseptic preparations. 249,183; Nov. 6; Serial No. 268,794; published Aug. 28, 1928. Class 6.

Leflore Grocery Co., doing business as Leflore Coffee Co., Greenwood, Miss. Roasted coffee. 249,210; Nov. 6. Class 46.

Legg, A. C., Packing Company, Inc., Birmingham, Ala. Seasoning for meats or other foods. 249,173; Nov. 6; Serial No. 260,738; published Aug. 21, 1928. Class 46.

Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Preparations. 248,977; Nov. 6; Serial No. 266,939; published Aug. 14, 1928. Class 6.

Lester, Dudley W., doing business as The Lester Tobacco Company, Chicago, Ill. Cigarettes. 249,166; Nov. 6; Serial No. 269,670; published Aug. 28, 1928. Class 17.

Levy, M. S., & Sons, Inc., Baltimore, Md., and New York, N. Y. Straw hats for the use of men. 248,928; Nov. 6; Serial No. 264,762; published July 10, 1928. Class 39.

Liebovitz, S., & Sons, Inc., New York, N. Y. Negligee and dress shirts, blouses, etc. 249,089; Nov. 6; Serial No. 250,736; published May 1, 1928. Class 39.

Life Savers, Inc. (See Atlantic City Candy Company (Incorporated), assignor.)

Lightfoot Schultz Company, Hoboken, N. J., and New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 248,921; Nov. 6; Serial No. 262,365; published Apr. 24, 1928. Class 6.

Lindorff, William F., doing business as Lindorff Manufacturing Company, Flushing, N. Y. Gravy. 248,923; Nov. 6; Serial No. 261,068; published Aug. 21, 1928. Class 46.

Link-Belt Company, Chicago, Ill. Heat-treated ferrous metals. 248,922; Nov. 6; Serial No. 262,232; published Aug. 21, 1928. Class 14.

Lister Surgical Company, assignor to Johnson & Johnson, New Brunswick, N. J. Absorbent cotton and gauze, and silk and catgut ligatures. 70,693; renewed Sept. 22, 1928.

Loeb, H., & Co., Inc., New York, N. Y. Underwear, bath suits, vests, etc. 249,196–7; Nov. 6; Serial No. 243,161–2; published July 3, 1928. Class 39.

Lore, Joseph, Bayonne, N. J. Medicine. 248,924; Nov. 6; Serial No. 261,822; published Aug. 14, 1928. Class 6.

Lowy, Louis, New York, N. Y. Shoes. 248,918; Nov. 6; Serial No. 265,110; published July 24, 1928. Class 39.

Luneburg, Martin, Astoria, N. Y. Cosmetics. 249,008; Nov. 6; Serial No. 268,105; published Aug. 21, 1928. Class 6.

Luther, P. H., Los Angeles, Calif. Ladies' and misses' hats. 249,084; Nov. 6; Serial No. 267,134; published July 17, 1928. Class 39.

MacKinnon, E., & Coelho, Buenos Aires, Argentina. Paraguayan tea. 249,052; Nov. 6; Serial No. 266,254; published Aug. 21, 1928. Class 46.
Macy, R. H., & Co., Inc., New York, N. Y. Golf clubs. 249,003; Nov. 6; Serial No. 268,503; published Aug. 21, 1928. Class 22.
Malcolm, George M., New York, N. Y. Automobile trucks and constructive parts thereof. 249,211; Nov. 6. Class 19.
Marcel Franck, Inc., New York, N. Y. Powder to be rubbed on stockings in order to increase their life. 249,146; Nov. 6; Serial No. 269,229; published Aug. 28, 1928. Class 6.
Marvin, Walter, doing business as Templar Oil Products Co., Brooklyn, N. Y. Cleansing preparation. 249,205; Nov. 6. Class 4.
Master Products Mfg. Co. (See Wallerstein, Charles A.)
May Department Stores Company, The, St. Louis, Mo. Belts. 249,083; Nov. 6; Serial No. 267,138; published July 24, 1928. Class 39.
McGreevey, Werring & Howell, Inc., New York, N. Y. Ladies' dresses, hats, coats, suits. 249,075; Nov. 6; Serial No. 267,370; published July 24, 1928. Class 39.
McHenry, William T., doing business as W. T. McHenry, Ganado, Tex. Preparation for treating rheumatic and kidney trouble, etc. 249,105; Nov. 6; Serial No. 267,849; published Aug. 21, 1928. Class 6.
Medolake Milk Products Company, Sherman, Tex. Creamery butter, ice cream, condensed milk, etc. 248,937; Nov. 6; Serial No. 261,070; published Aug. 21, 1928. Class 46.
Mechanische Weberei zu Linden, Hannover-Linden, Germany. Velveteens. 68,199; renewed Mar. 10, 1928.
Megargee Bros. Inc., Scranton, Pa. Toilet paper. 249,150; Nov. 6; Serial No. 269,195; published Aug. 28, 1928. Class 37.
Melliere Laboratories. (See Hernandez, Miguel J.)
Meyer, Adolph C., Baltimore, assignor to H. A. Frentz, doing business as A. C. Meyer & Co., Catonsville and Baltimore, Md. Insecticides. 71,028; renewed Oct. 27, 1928.
Meyers, Louis, & Son, Inc., New York, N. Y. Fabric gloves. 249,226; Nov. 6. Class 39.
Milgrim, H., & Bros., Inc., New York, N. Y. Leather and silk hand bags. 249,204; Nov. 6. Class 3.
Miller, I., and Sons, Incorporated, Long Island City, N. Y. Hosiery. 249,000; Nov. 6; Serial No. 263,277; published July 17, 1928. Class 39.
Miller, I., & Sons, Inc., Long Island City, N. Y. Canes, parasols, and umbrellas. 249,212–13; Nov. 6. Class 41.
Milwaukee Delicatessen, Inc., Lincoln, Nebr. Malt extract. 249,200; Nov. 6. Class 46.
Mossberg, Frank, Company, assignor to Apco Mossberg Corporation, Attleboro, Mass. Metal reels and metal spools. 73,137; renewed Mar. 16, 1929.
Mother's Remedies Co., The, Chicago, Ill. Remedies for certain diseases. 71,172; renewed Nov. 3, 1928.
Mülhens & Kropff, assignor, by mesne assignments, to Mülhens & Kropff, Incorporated, New York, N. Y. Toilet soap. 72,521; renewed Feb. 2, 1929.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 248,931; Nov. 6; Serial No. 261,802; published Aug. 21, 1928. Class 4.
Mulkey Salt Co., Detroit, Mich. Salt. 249,193; Nov. 6; Serial No. 268,623; published Aug. 14, 1928. Class 6.
Murphy, Richard J., Washington, D. C. Used automobiles. 249,034; Nov. 6; Serial No. 266,550; published Aug. 28, 1928. Class 19.
Mutschler, Francis T., Sunbury, Pa. Automobile top dressing. 248,920; Nov. 6; Serial No. 262,374; published Aug. 21, 1928. Class 4.
Myers, E., Lye Co., St. Louis, Mo. Lye or caustic soda. 249,139; Nov. 6; Serial No. 221,913; published Aug. 28, 1928. Class 6.
National Aniline & Chemical Company. (See Schoellkopf, Hartford & Hanna Company, assignor.)
National Radio Institute, Washington, D. C. Textbooks, radio work sheets, etc. 248,968; Nov. 6; Serial No. 268,302; published Aug. 21, 1928. Class 38.
Newman, I., & Sons, Inc., New York, N. Y. Corsets, corset and brassière combinations, and brassières. 248,945; Nov. 6; Serial No. 264,320; published July 17, 1928. Class 39.
N. Y. Rayon Importing Co., Inc., New York, N. Y. Rayon yarns and threads. 249,188; Nov. 6; Serial No. 268,098; published Aug. 28, 1928. Class 43.
New York Stamping Company, Brooklyn, N. Y. Currycombs. 69,915; renewed July 14, 1928.
Nielsen Packing Company, doing business as Peak-O-Health Products, San Francisco, Calif. Canned vegetables. 249,033; Nov. 6; Serial No. 266,475; published Aug. 21, 1928. Class 46.
Norris Grain Company, Chicago, Ill. Oats. 249,009; Nov. 6; Serial No. 255,862; published Aug. 28, 1928. Class 46.
Northwestern Extract Co., Milwaukee, Wis. Beverages and sirups, extracts, and concentrates for making the same. 248,904; Nov. 6; Serial No. 269,362; published Aug. 21, 1928. Class 45.
Odorono Company, The, Cincinnati, Ohio. Deodorants. 249,182; Nov. 6; Serial No. 268,790; published Aug. 28, 1928. Class 6.
Ohlendorf, August, Jersey City, N. J. Canned bologna. 249,138; Nov. 6; Serial No. 229,641; published Aug. 21, 1928. Class 46.
Oil Products Appliance Company, Maywood, Ill. Portable oil-pump tank with battery of containers. 249,144; Nov. 6; Serial No. 269,249; published Aug. 28, 1928. Class 23.
Old, Emma B., doing business as Old's Manufacturing Company, Kansas City, Mo. Piano, furniture, floor, and automobile polish. 249,078; Nov. 6; Serial No. 267,176; published Aug. 21, 1928. Class 16.
Oliver, Nell, Portland, Oreg. Soap. 248,972; Nov. 6; Serial No. 268,167; published Aug. 21, 1928. Class 4.
Oliver Twist Wafer Co. Inc., Long Island City, N. Y. Ice-cream cones. 249,073; Nov. 6; Serial No. 267,384; published Aug. 21, 1928. Class 46.
Oltman, H. Chris., doing business as Spearo Manufacturing Company, Joplin, Mo. Dentifrice, tooth powder, etc. 249,186; Nov. 6; Serial No. 268,745; published Aug. 28, 1928. Class 6.
Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, lumbago, etc. 248,951; Nov. 6; Serial No. 263,887; published Aug. 28, 1928. Class 6.
Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, lumbago, etc. 248,999; Nov. 6; Serial No. 263,510; published Aug. 28, 1928. Class 6.
Oppenheim, Collins & Co., Inc., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J.; Philadelphia and Pittsburgh, Pa.; and Cleveland, Ohio. Shoes. 248,998; Nov. 6; Serial No. 265,802; published July 10, 1928. Class 39.
Orocide Chemical Company. (See Stearn, Boris J.)
Pacific Chemical Company, Los Angeles, Calif. Moth repellent. 249,181; Nov. 6; Serial No. 268,801; published Aug. 28, 1928. Class 6.
Pacific Coast Canners, Inc., Oakland, Calif. Canned fruits and vegetables. 249,132; Nov. 6; Serial No. 243,279; published Aug. 28, 1928. Class 46.
Palmolive-Peet Company, The, Chicago, Ill. Facial creams. 248,941; Nov. 6; Serial No. 262,766; published Aug. 14, 1928. Class 6.
Para Rubber Company, Newark, N. J. Water-repelling shower curtain. 249,174; Nov. 6; Serial No. 260,696; published Aug. 28, 1928. Class 13.
Parlier Fruit Growers Association, Parlier, Calif. Fresh deciduous fruits. 249,011; Nov. 6; Serial No. 269,055; published Aug. 21, 1928. Class 46.
Peak-O-Health Products. (See Nielsen Packing Company.)
Pease, Howard R., doing business as Casca-Terpin Co., Toledo, Ohio. Medicine. 249,222; Nov. 6. Class 6.
Peoples Drug Stores, Inc., Washington, D. C. Insecticide. 249,016; Nov. 6; Serial No. 268,935; published Aug. 28, 1928. Class 6.
Permanizing Stations of America, Inc., Denver, Colo. Cleaner for automobile bodies, etc. 249,003; Nov. 6; Serial No. 267,077; published Aug. 21, 1928. Class 4.
Philfuels Company, Bartlesville, Okla. Liquefied industrial gases. 249,081; Nov. 6; Serial No. 267,144; published Aug. 14, 1928. Class 6.
Philfuels Company, Bartlesville, Okla. Concentrated natural gas. 249,082; Nov. 6; Serial No. 267,143; published Aug. 21, 1928. Class 6.
Phillips' Patents Limited, London, England. Soles and heels for boots and shoes. 249,044; Nov. 6; Serial No. 266,399; published July 17, 1928. Class 39.
Pinaud Incorporated, New York, N. Y. Perfumed toilet waters. 248,948–9; Nov. 6; Serial Nos. 264,191–2; published Aug. 14, 1928. Class 6.
Pinto, Joe, doing business as Indian Herb Medicine Co., Gary, Ind. Medicine. 248,985; Nov. 6; Serial No. 266,746; published Aug. 14, 1928. Class 6.
Posner, Dr. A., Shoes, Inc., New York, N. Y. Shoes. 249,074; Nov. 6; Serial No. 267,386; published July 24, 1928. Class 39.
Powder Puff Candy Co. (See Bruner, Marion C.)
Puritan Chemical Company. (See Hyams, Harry H.)
Purox Company, Denver, Colo. Gas-pressure regulator. 249,110; Nov. 6; Serial No. 267,799; published Aug. 28, 1928. Class 13.
Purox Company, Denver, Colo. Welding rods. 249,111; Nov. 6; Serial No. 267,797; published Aug. 21, 1928. Class 14.
Purox Company, Denver, Colo. Rubber hose. 249,112; Nov. 6; Serial No. 267,796; published Aug. 21, 1928. Class 35.
Pyramid Rubber Specialty Company, The, Ravenna, Ohio. Rubber nursing nipples and surgical rubber gloves. 249,207; Nov. 6. Class 44.
Raley, A. M., doing business as Relay Coffee Co., Evansville, Ind. Malt syrup. 249,092; Nov. 6; Serial No. 268,511; published Aug. 21, 1928. Class 46.
Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Fabric dyes and glass frosting. 249,109; Nov. 6; Serial No. 267,800; published Aug. 28, 1928. Class 6.
Reed, James W., Imperial, Calif. Fresh grapefruit. 249,156; Nov. 6; Serial No. 269,152; published Aug. 21, 1928. Class 46.
Reichardt Cocoa & Chocolate Co. Inc., also doing business as Reichardt, New Brunswick, N. J. Candy. 248,903; Nov. 6; Serial No. 269,366; published Aug. 21, 1928. Class 46.



Renault, L. N., & Sons, Inc., Egg Harbor City, N. J. General tonic. 249,037; Nov. 6; Serial No. 259,183; published Aug. 28, 1928. Class 6.
Rex Research Corporation, Telode, Ohio. Insecticide and insect repellent. 249,043; Nov. 6; Serial No. 266,441; published Aug. 21, 1928. Class 6.
Richman & Samuels Inc., New York, N. Y. Fresh vegetables. 249,143; Nov. 6; Serial No. 269,257; published Aug. 21, 1928. Class 46.
Riendeau, Fred, doing business as Surprise Brand Products, Chicago, Ill. Polish for silverware, gold, etc. 249,175; Nov. 6; Serial No. 260,529; published June 19, 1928. Class 4.
River Products Co., Iowa City, Iowa. Stock feed. 249,119; Nov. 6; Serial No. 267,510; published Aug. 28, 1928. Class 46.
Robinson & Golluber, New York, N. Y. Cotton piece goods. 249,089; Nov. 6; Serial No. 268,562; published Aug. 21, 1928. Class 42.
Rochester Folding Box Co., The, Rochester, N. Y. Paper. 249,064; Nov. 6; Serial No. 250,309; published Aug. 21, 1928. Class 37.
Rockford Steel Furniture Company, Rockford, Ill. Refrigerators. 249,179–80; Nov. 6; Serial Nos. 268,815–16; published Aug. 28, 1928. Class 31.
Roger & Gallet, New York, N. Y. After-shaving lotions. 249,023–5; Nov. 6; Serial Nos. 268,889–91; published Aug. 28, 1928. Class 6.
Rogers, Elizabeth W., St. Paul, Minn. Boards used in the construction of full-sized toys. 249,220; Nov. 6. Class 22.
Rosenberg, B., & Sons, Inc., New Orleans, La. Boots and shoes. 248,960; Nov. 6; Serial No. 265,569; published July 10, 1928. Class 39.
Rosenberg, Herman, Philadelphia, Pa. Cereal breakfast food. 249,062; Nov. 6; Serial No. 256,746; published Aug. 28, 1928. Class 46.
Roser, P., Manufacturing Company, Inc., Richmond, Va. Automobile polish. 248,978; Nov. 6; Serial No. 266,885; published Aug. 21, 1928. Class 16.
Rosokoff, Harvey J., doing business as Harvey's Drug Store, North Tonawanda, N. Y. Medicine. 249,167; Nov. 6; Serial No. 269,607; published Aug. 21, 1928. Class 6.
Ro-Zell's Laboratories. (See Fenton, Z. H.)
S. A. R. M. Società Anonima Ritrovati Medicinali, Rome, Italy. Uroclasio, a medicinal preparation for all kinds of uricemics. 249,065; Nov. 6; Serial No. 256,014; published Aug. 28, 1928. Class 6.
Safe Wash Bleach Co. (See Carnesecca, Jacop.)
Salo-Sedatus Chemical Company. (See Trevaskis, William J.)
Schanzenbach, J., & Co., Inc., New York, N. Y. Brilliantine and dressings for the hair. 249,091; Nov. 6; Serial No. 268,515; published Aug. 28, 1928. Class 6.
Schilling, Albert C., Philadelphia, Pa. Ice-cream, cakes, cookies, etc. 249,203; Nov. 6. Class 46.
Schmidt Lithograph Company, San Francisco, Calif. Display cards, printed advertising signs, and counter cards. 249,103; Nov. 6; Serial No. 267,999; published Aug. 21, 1928. Class 38.
Schmidt, Molly, doing business as M. Schmidt, Auburn, Me. Liniment. 249,114; Nov. 6; Serial No. 267,726; published Aug. 14, 1928. Class 6.
Schoellkopf, Hartford & Hanna Company, Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Anilin coloring materials. 71,242; renewed Nov. 10, 1928.
Schwabacher Bros. & Co., Inc., Seattle, Wash. Canned fruits, vegetables, and fish. 249,163; Nov. 6; Serial No. 269,800; published Aug. 28, 1928. Class 46.
Scott, Charles H., Company, The, Chicago, Ill., and New York, N. Y. Corset garment. 248,943; Nov. 6; Serial No. 262,542; published July 17, 1928. Class 39.
Seidel, Ad., & Sons, Chicago, Ill. Dry jelly. 249,155; Nov. 6; Serial No. 269,156; published Aug. 21, 1928. Class 46.
Selchow and Righter Co., Brooklyn, N. Y. Card games. 248,956; Nov. 6; Serial No. 263,071; published Aug. 14, 1928. Class 22.
Semmes, Eleanor B., Washington, D. C. Crystallized grapefruit. 24,012; Nov. 6; Serial No. 269,039; published Aug. 21, 1928. Class 46.
Shaban, Islam, Mansfield, Ohio. Preparation. 248,911; Nov. 6; Serial No. 269,324; published Aug. 21, 1928. Class 6.
Shaft-Pierce Shoe Co., Faribault, Minn. Shoes. 249,036; Nov. 6; Serial No. 258,931; published July 17, 1928. Class 39.
Shield Co. Inc., The, Fort Worth, Tex. Golf balls, golf clubs, and golf bags. 248,910; Nov. 6; Serial No. 269,325; published Aug. 21, 1928. Class 22.
Simon Manufacturing Company, Richmond Hill, N. Y. Metal polish. 249,116; Nov. 6; Serial No. 267,671; published Aug. 21, 1928. Class 4.
Sloan's Sporting Goods Co. Inc., New York, N. Y. Shotguns and rifles. 248,909; Nov. 6; Serial No. 269,327; published Aug. 28, 1928. Class 9.
Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, spray pumps, pumps, etc. 249,192; Nov. 6; Serial No. 268,630; published Aug. 28, 1928. Class 23.
Smith, G. & J. G. (See Grant, George S.)
Smith, Geo. F., Woodsboro, Md. Pharmaceutical preparations. 72,258; renewed Jan. 12, 1929.
Societe Anonyme des Fromageries Ch. Gervais, Paris, France. Cheese. 249,123–4; Nov. 6; Serial Nos. 253,712–3; published Aug. 28, 1928. Class 46.
Solberg, Arthur, doing business as Catskill Paint & Varnish Co., Chicago, Ill. Ready-mixed paints, paint enamels, and varnishes. 249,225; Nov. 6. Class 16.
Solid Carbonic Company, Ltd., The, New York, N. Y. Solid carbon dioxide. 248,986; Nov. 6; Serial No. 266,688; published Aug. 21, 1928. Class 6.
Southern Manufacturing Company, Athens, Ga. Cotton cloth piece goods. 249,154; Nov. 6; Serial No. 269,157; published Aug. 21, 1928. Class 42.
Southwestern Milling Company, Inc., The, New York, N. Y., and Kansas City, Mo. Whole-wheat flour. 249,002; Nov. 6; Serial No. 267,088; published Aug. 21, 1928. Class 46.
Spearo Manufacturing Company. (See Oltman, H. Chris.)
Squibb, E. R., & Sons, New York, N. Y. Analgeso hypnotic. 249,178; Nov. 6; Serial No. 268,822; published Aug. 28, 1928. Class 6.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 248,984; Nov. 6; Serial No. 266,764; published Aug. 28, 1928. Class 6.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Liquid cleansing compounds and detergents. 249,191; Nov. 6; Serial No. 268,644; published Aug. 21, 1928. Class 4.
Standard Oil Company of New Jersey, Wilmington, Del. Periodical publications. 249,153; Nov. 6; Serial No. 269,159; published Aug. 21, 1928. Class 38.
Standard Products Co., Jacksonville, Fla. Liniment. 249,108; Nov. 6; Serial No. 267,806; published Aug. 14, 1928. Class 6.
Standard Steel and Bearings Incorporated, Plainville, Conn. Ball bearings. 248,919; Nov. 6; Serial No. 262,423; published Aug. 28, 1928. Class 23.
Stearn, Boris J., doing business as Orocide Chemical Company, Chicago, Ill. Mouth wash. 249,177; Nov. 6; Serial No. 268,824; published Aug. 21, 1928. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Perfumes. 249,145; Nov. 6; Serial No. 269,230; published Aug. 28, 1928. Class 6.
Stein, S., & Co., New York, N. Y. Woolen goods. 249,165; Nov. 6; Serial No. 269,697; published Aug. 28, 1928. Class 42.
Sterling Shoes Corporation, Buffalo, N. Y. Shoes. 249,058; Nov. 6; Serial No. 257,487; published July 17, 1928. Class 39.
Sterling Tire Corporation, doing buisness as Hardware Tire Corporation, Rutherford, N. J. Pneumatic tires and the inner tubes and outer casings thereof. 249,224; Nov. 6. Class 35.
Stock Market Reporter, Inc., New York, N. Y. Weekly stock-market review. 249,142; Nov. 6; Serial No. 269,267; published Aug. 21, 1928. Class 38.
Strauss, Hugo, Packing Co., Inc., Brooklyn, N. Y. Canned food. 249,059; Nov. 6; Serial No. 257,418; published Aug. 21, 1928. Class 46.
Styler Shoe Co., Inc., Lynn, Mass. Women's shoes. 248,959; Nov. 6; Serial No. 265,585; published July 10, 1928. Class 39.
Suckel, Charles H., doing business as C. H. S. Garter Company, New York, N. Y. Garters. 248,990; Nov. 6; Serial No. 265,995; published July 24, 1928. Class 39.
Sun Company, now by change of name to Sun Oil Company, Philadelphia, Pa. Spirits of turpentine and substitute therefor. 72,673; renewed Feb. 9, 1929.
Sun Company, now by change of name to Sun Oil Company, Philadelphia, Pa. Spirits of turpentine and substitute therefor. 72,675; renewed Feb. 9, 1929.
Superior Products Company, Dallas, Tex. Face powder and brilliantine. 249,141; Nov. 6; Serial No. 269,268; published Aug. 28, 1928. Class 6.
Surprise Brand Products. (See Riendeau, Fred.)
Templar Oil Products Co. (See Marvin, Walter.)
Templeton, Kenly & Co., Limited, Chicago, Ill. Lifting jacks. 249,102; Nov. 6; Serial No. 268,063; published Aug. 28, 1928. Class 23.
Ternstedt Manufacturing Company, Detroit, Mich. Automobile body hardware. 249,051; Nov. 6; Serial No. 266,283; published Aug. 21, 1928. Class 14.
Thibodeau, A. F., Co., Inc., Detroit, Mich. Butter. 249,149; Nov. 6; Serial No. 269,210; published Aug. 21, 1928. Class 46.
Thompson Products, Inc., Cleveland, Ohio. Pump shafts and poppet valves. 249,035; Nov. 6; Serial No. 258,049; published Aug. 28, 1928. Class 23.
Tiffany & Company, New York, N. Y. Writing paper, mailing envelopes, etc. 249,080; Nov. 6; Serial No. 267,155; published Aug. 28, 1928. Class 37.
Tiffany & Company, New York, N. Y. Table glassware. 249,086; Nov. 6; Serial No. 267,096; published Aug. 21, 1928. Class 33.
Tile & Mantel Contractors' Association of America, The, Wilmington, Del. Letterheads. 248,981; Nov. 6; Serial No. 266,843; published Aug. 21, 1928. Class 37.
Timm's, Dr., Medicine Co. (See Drake, Norman C.)
Tip Top Creamery Co., The, Vincennes, Ind. Butter. 248,908; Nov. 6; Serial No. 269,333; published Aug. 21, 1928. Class 46.
Trevaskis, William J., doing business as Salo-Sedatus Chemical Company, Fruitland Park, Fla. Antiseptic, diuretic, etc., preparations. 249,137; Nov. 6; Serial No. 231,212; published Aug. 28, 1928. Class 6.

Turmel, Marguerite, Co. (See Valligny, Marguerite T.)
United Carbon Company, Charleston, W. Va. Carbon black. 249,072; Nov. 6; Serial No. 267,399; published Aug. 21, 1928. Class 16.
United Paper Company, East Braintree, Mass. Specially-treated waterproof paper mulch. 248,983; Nov. 6; Serial No. 266,769; published Aug. 28, 1928. Class 37.
United Rabbitries Marketing Corp., Duarte, Calif. Rabbits alive, dressed, and for food purposes. 249,107; Nov. 6; Serial No. 267,815; published Aug. 28, 1928. Class 46.
U. S. Hydraulic Development Company, The, Cleveland, Ohio. Hydraulic jacks. 249,022; Nov. 6; Serial No. 268,894; published Aug. 28, 1928. Class 23.
Universal Milk Company, New York, N. Y. Evaporated milk. 249,120; Nov. 6; Serial No. 267,471; published Aug. 21, 1928. Class 46.
Valligny, Marguerite T., doing business as Marguerite Termel Co., New York, N. Y. Hair dyes and restorers. 249,115; Nov. 6; Serial No. 267,676; published Aug. 14, 1928. Class 6.
Veldown Company, Inc., New York, N. Y. Catamenial nankins. 249,096; Nov. 6; Serial No. 268,474; published Aug. 21, 1928. Class 44.
Veleur Toilet Requisites Co. (See Franks, Louis.)
Verlaine, Inc. (See Fnerst, Irvin, assignor.)
Vernor, James, Company, Detroit, Mich. Aromatic baking flavor. 249,209; Nov. 6. Class 46.
Wallerstein, Charles A., doing business as Master Products Mfg. Co., Brooklyn, N. Y. Preparation for preventing corrosion of metal. 249,171; Nov. 6; Serial No. 260,925; published Aug 28, 1928. Class 6.
Weber Medical Tea Company The, Brooklyn, N. Y. Herb teas and laxative preparations. 248,967; Nov. 6; Serial No. 268,331; published Aug. 28, 1928. Class 6.
Weingarten Bros., Inc., New York, N. Y. Women's undergarments. 248,927; Nov. 6; Serial No. 265,078; published July 17, 1928. Class 39.
Weingarten, J., Inc., Houston, Tex. Creamery butter. 249,164; Nov. 6; Serial No. 269,701; published Aug. 28, 1928. Class 46.
Weller, J., Company, The, Oak Harbor, Ohio. Pickles. 249,152; Nov. 6; Serial No. 269,164; published Aug. 21, 1928. Class 46.
Wells, Estelle K., Douglaston, Long Island, N. Y. Pen name for newspaper feature articles. 249,208; Nov. 6. Class 38.
Wertz, F. S., & Son, Reading, Pa. Feeds. 249,187; Nov. 6; Serial No. 268,722; published Aug. 28, 1928. Class 46.
West End Brewing Co., The, Utica, N. Y. Malt beverages. 249,079; Nov. 6; Serial No. 267,170; published Aug. 28, 1928. Class 48.
Westergaard, B., & Co., Brooklyn, N. Y. Bread. 249,190; Nov. 6; Serial No. 268,666; published Aug. 21, 1928. Class 46.
Western Dairy Products Co., Seattle, Wash. Ice cream. 249,127; Nov. 6; Serial No. 252,298; published Aug. 28, 1928. Class 46.
Western Electric Company, Incorporated, New York, N. Y. Title of a monthly publication. 249,185; Nov. 6; Serial No. 268,758; published Aug. 21, 1928. Class 38.
Weston Manufacturing & Supply Company, The, Denver, Colo. Device for branding, tattooing, etc. 249,021; Nov. 6; Serial No. 268,897; published Aug. 28, 1928. Class 23.
White Hall Baking Company, Flint and Detroit, Mich. Bread. 248,907; Nov. 6; Serial No. 269,341; published Aug. 21, 1928. Class 46.
Wilson, Arthur L., Hamilton, Ontario, Canada. Leather shoes. 249,168; Nov. 6; Serial No. 260,969; published July 24, 1928. Class 39.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 248,897; Nov. 6; Serial No. 269,540; published Aug. 21, 1928. Class 22.
Winship, W. W., & Sons, Inc., Utica, N. Y. Wardrobe trunks, carrying cases, etc. 248,906; Nov. 6; Serial No. 269,342; published Aug. 21, 1928. Class 3.
Wonder Ironer Manufacturing Corporation, Cleveland, Ohio. Ironing machines. 248,896; Nov. 6; Serial No. 269,541; published Aug. 28, 1928. Class 24.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 248,917; Nov. 6; Serial No. 266,006; published July 10, 1928. Class 39.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 248,942; Nov. 6; Serial No. 266,005; published July 24, 1928. Class 39.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 248,989; Nov. 6; Serial No. 266,004; published July 10, 1928. Class 39.
Woodbury Shoe Mfg. Co., Derry, N. H. Boots, shoes, and slippers. 249,055–6; Nov. 6; Serial Nos. 266,007–8; published July 24, 1928. Class 39.
Wellcome, Henry S., London, England, assignor, by mesne assignments, to Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Sodium para-aminophenylarsonates. 73,155; renewed Mar. 23, 1929.
Wester Bros., assignor, by mesne assignments, to Wester Bros., New York, N. Y. Pocketknives, scissors, and razors. 72,465; renewed Jan. 26, 1929.
Yankee Polish Co. (See Graziadei, Leonardo, assignor.)
Zona Toilet Co., The, Wichita, Kans. Toilet preparations. 70,824; renewed Oct. 6, 1928.

## ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Brand Chewing Gum, Peppermint. For Chewing Gum. 34,898–9; Nov. 6.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Peppermint Candy Coated Gum, Beechies. For Chewing Gum. 34,900; Nov. 6.
Canoga Citrus Association, Owensmouth, Calif. Rosita. For Oranges. 34,901; Nov. 6.
Curtiss Candy Company, The, Chicago, Ill. Chicos. For Salted Peanuts. 34,902; Nov. 6.
Eugene Fruit Growers Association, Eugene, Oreg. Fuly-Rype. For Canned Pears. 34,903; Nov. 6.
Independent Growers Packing Company, San Jose, Calif. Suni-Bel. For Prunes. 34,904; Nov. 6.
Poetz, Frank H., doing business as Summit Mfg. Co., St. Paul, Minn. Csay. For Liquid Preparation for Excessive Perspiration. 34,905; Nov. 6.
Porter-Scarpelli Macaroni Company, Portland, Oreg. Porter Ever Fresh Egg Macaroni Products. For Macaroni Products. 34,906; Nov. 6.
Reichardt Cocoa & Chocolate Co. Inc., doing business as Reichardt's, New York, N. Y. Reichardt's Tulip Chest Chocolates. For Candy. 34,907; Nov. 6.
Reid, Murdoch & Co., Chicago, Ill. Teenie Weenie Toffies. For Candy. 34,908; Nov. 6.
San Dimas Orange Growers Association, San Dimas, Calif. Grizzly Giant. For Oranges. 34,909; Nov. 6.
San Dimas Orange Growers Association, San Dimas, Calif. Harmony. For Oranges. 34,910; Nov. 6.
San Dimas Orange Growers Association, San Dimas, Calif. Our Emblem. For Oranges. 34,911; Nov. 6.
San Dimas Orange Growers Association, San Dimas, Calif. Pet. For Oranges. 34,912; Nov. 6.
San Dimas Orange Growers Association, San Dimas, Calif. White Horse. For Grapefruit. 34,913; Nov. 6.
Schrafft's Stores, The. (See Shattuck, Frank G., Company.)
Shattuck, Frank G., Company, also doing business as The Schrafft's Stores, New York, N. Y. Top-Off Mints. For Candy. 34,914; Nov. 6.
Solvit-All Corporation, New York, N. Y. The Liquid Solvit-All Sanitary Solvent. For a Liquid Sanitary Solvent. 34,915; Nov. 6.
Stanco Incorporated, New York, N. Y. Flit Kills Flies Mosquitoes Moths Bed Bugs Roaches Ants. For Insecticide. 34,916; Nov. 6.
Summit Mfg. Co. (See Poetz, Frank H.)
Sutherland Paper Company, The, Kalamazoo, Mich. Ferndale. For Butter. 34,917; Nov. 6.
Sutherland Paper Company, The, Kalamazoo, Mich. Richland. For Butter. 34,918; Nov. 6.
Sutherland Paper Company, The, Kalamazoo, Mich. Buttercup. For Butter. 34,919; Nov. 6.
Val Blatz Brewing Co., Milwaukee, Wis. Hof-Brand. For Malt Syrup. 34,920; Nov. 6.

## ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Butter Scotch. For Candy. 11,308; Nov. 6.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Fruit Drops. For Candy. 11,309; Nov. 6.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Lemon Fruit Drops. For Candy. 11,310; Nov. 6.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Orange Fruit Drops. For Candy. 11,311; Nov. 6.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Lime Fruit Drops. For Candy. 11,312; Nov. 6.
Cream of Wheat Co., Minneapolis, Minn. An Authoritative Review of the Latest Findings in Nutrition. For Wheat Breakfast Food. 11,313; Nov. 6.
Cream of Wheat Co., Minneapolis, Minn. A valuable Booklet for Busy Doctors. For Wheat Breakfast Food. 11,314; Nov. 6.
Heinz, H. J., Company, Pittsburgh, Pa. What, Oh, What a Flavor there is to Heins Cooked Spaghetti. For Cooked Spaghetti. 11,315–16; Nov. 6.



Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Elephant. For Printing Inks. 11,317; Nov. 6.
Johnson, Charles Eneu, and Company, Philadelphia, Pa. Harlequin. For Printing Inks. 11,318; Nov. 6.
Johnson, Charles Eneu, and Company, Philadelphia, Pa. The Flamingos. For Printing Inks. 11,319; Nov. 6.
Johnson, Charles Eneu, and Company, Philadelphia, Pa. Printers' Devils. For Printing Inks. 11,320; Nov. 6.
Nashua Manufacturing Company, Nashua, N. H. Feel their Warmth. For Blankets. 11,321; Nov. 6.
Nashua Manufacturing Company, Nashua, N. H. When Y-A-W-N-I-N-G Time Comes. For Blankets. 11,322; Nov. 6.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A D C O. (See Goldberg, Albert.)
Acme Fruit Company, New York, N. Y., and Fort Pierce, Fla. Fruits. 267,734; Nov. 6. Class 46.
Adams Bag Company, The, Chagrin Falls, Ohio. Paper shipping sacks. 270,222; Nov. 6. Class 2.
Aktiebolaget Rakbladsindustri, Halmstad, Sweden. Razor blades. 272,844; Nov. 6. Class 23.
Albert Drug Co. (See Goldberg, Albert.)
Alexander-Balart Company, San Francisco, Calif. Coffee. 258,710; Nov. 6. Class 46.
Almo Corporation, The, Newark, N. J. Lubricating oils and greases. 271,016; Nov. 6. Class 15.
Alpha Sigma Lambda National Fraternity, Oak Park, Ill. Membership pins, finger rings, bracelets, etc. 261,033; Nov. 6. Class 28.
Alphabet Chewing Gum Co. (See McCormick, Charles T.)
American Cereal-Coffee Company, Chicago, Ill. Cereal substitute for coffee. 272,523–4. Nov. 6. Class 46.
American Cereal-Coffee Company, Chicago, Ill. Coffee substitute. 272,525; Nov. 6. Class 46.
American Cereal-Coffee Company, doing business as Likoffy Sales Company, Chicago, Ill. Coffee substitute. 272,526; Nov. 6. Class 46.
American Oil Company, The, Baltimore, Md. Motor lubricating oils and greases, gasoline, etc. 267,627; Nov. 6. Class 15.
American Paint Corporation, Duluth, Minn. Paints, varnishes, white lead, lacquers, etc. 259,315; Nov. 6. Class 16.
Amster, Joseph, New York, N. Y. Handkerchiefs. 272,527; Nov. 6. Class 42.
Arkin, Morris S., doing business as Arkin Bros., Detroit, Mich. Horse-radish, mustard, relishes, etc. 260,619; Nov. 6. Class 46.
Armstrong Cator Company, The, Baltimore, Md. Hosiery. 253,686; Nov. 6. Class 39.
Arnold, Constable & Co., Inc., New York, N. Y. Dresses, coats, robes, etc. 270,455; Nov. 6. Class 39.
Aronson, Israel H., New York, N. Y. Suits and overcoats. 267,333; Nov. 6. Class 39.
Atlas Brass Foundry Company, The, Columbus, Ohio. Stop and waste valves, pipe plugs, etc. 272,533; Nov. 6. Class 13.
Auto Signal Company, Long Island City, N. Y. Signals. 269,570; Nov. 6. Class 23.
Barton, W. H., & Sons, Augusta, Ga. Ice cream. 263,916; Nov. 6. Class 46.
Bayuk Cigars Incorporated, Philadelphia, Pa. Cigars. 271,792; Nov. 6. Class 17.
Bethune, John G., doing business as The Bethune Laboratories, Cleveland, Ohio. Medicine. 271,470; Nov. 6. Class 6.
Big Rock Water Co., Franklin, Pa. Table waters and other maltless beverages. 272,378; Nov. 6. Class 45.
Birns, Louis, & Sons, New York, N. Y. Leather soles. 268,417; Nov. 6. Class 39.
Bloomsburg Silk Mill, Bloomsburg, Pa., and New York, N. Y. Silk piece goods. 264,555; Nov. 6. Class 42.
Booth, W. H., & Co., Santa Ana, Calif. Condiments, dried vegetables, canned vegetables, etc. 271,287; Nov. 6. Class 46.
Borgfeldt, Geo., & Co., New York, N. Y. Phonographs and parts thereof. 271,679; Nov. 6. Class 36.
Bostwick Brothers, Atlanta, Ga. Powders for headache and neuralgia, castor oil, etc. 272,537; Nov. 6. Class 6.
Brill, H. C., Company, Inc., Newark, N. J. Baking powder. 271,290–1; Nov. 6. Class 6.
Bruce Flooring Corporation, Hoboken, N. J. Wood flooring. 271,643; Nov. 6. Class 12.
Bruder Böhm, Vienna, Austria. Hats and hat bodies. 247,459; Nov. 6. Class 39.
Burlington Overall Manufacturing Company, Kansas City, Mo. Overalls and jackets. 270,667; Nov. 6. Class 39.
Butterfield, Fred, & Co., Inc., New York, N. Y. Piece goods. 273,286; Nov. 6. Class 42.
Cabot, Samuel, Inc., Boston, Mass. Builders' sheathing, packing, etc. 269,986; Nov. 6. Class 12.
Cabot, Samuel, Inc., Boston, Mass. Chemical compound. 269,987; Nov. 6. Class 6.
Cabot, Samuel, Inc., Boston, Mass. Wood and shingle stains, tinting paints and stains, etc. 269,988; Nov. 6. Class 16.
Cambria Silk Hosiery Co., Philadelphia, Pa. Hosiery. 270,628; Nov. 6. Class 39.
Cameron, William J., doing business as Cameron's Surgical Specialty Co., Chicago, Ill. Optical apparatus. 270,878; Nov. 6. Class 26.
Camp Creek Duck Farm. (See Moore, Bradford Van R.)
Campbell & Van Buskirk, Boston, Mass. Toy handkerchief cases and pocketbooks. 269,826; Nov. 6. Class 22.
Cane and Winogura, Los Angeles, Calif. Stationary davenports, upholstered chairs, etc. 268,964; Nov. 6. Class 32.
Canoga Citrus Association, Owensmouth, Calif. Fresh citrus fruits. 272,976; Nov. 6. Class 46.
Catterall, A. B., Co., Des Moines, Iowa. Radio reception clarifier, etc. 261,940; Nov. 6. Class 21.
Celanese Corporation of America, New York, N. Y. Dyestuffs. 263,376; Nov. 6. Class 6.
Chambers-Godfrey Mfg. Co., Martin, Tenn. Antiskipper compound. 268,914; Nov. 6. Class 6.
Champion Porcelain Company, Detroit, Mich. Articles of refractory material. 271,593; Nov. 6. Class 26.
Chicago Chapter, American Institute of Banking, Chicago, Ill. Periodical. 272,390; Nov. 6. Class 38.
Chicago Daily News, Inc., The, Chicago, Ill. Newspapers. 272,789; Nov. 6. Class 38.
Chickasaw Thread Company, Shelby, N. C. Thread and yarn. 269,717; Nov. 6. Class 43.
Chula Vista Citrus Association, Chula Vista, Calif. Fresh citrus fruit. 272,932; Nov. 6. Class 46.
Cincolade Manufacturing Co. (See Hall, William F., jr.)
Citizens Radio Service Bureau, Chicago, Ill. Radio call book. 272,543; Nov. 6. Class 38.
Colline, Joseph P., St. Louis, Mo. Wrapping paper. 255,904; Nov. 6. Class 37.
Columbia Outfitting Company, Los Angeles, Calif. Ladies' apparel. 255,841; Nov. 6. Class 39.
Cooper Drug Company, Inc., Norristown, Pa. Plant tonics and plant foods. 272,754; Nov. 6. Class 10.
Crouch & Fitzgerald Corporation, New York, N. Y. Suitcases, traveling bags, tc. 271,169; Nov. 6. Class 3.
Crown Products Company. (See Howe, Warren D., D. M.)
Curtiss Aeroplane and Motor Company, Inc., Buffalo and Garden City, N. Y. Aeroplanes. 272,603; Nov. 6. Class 19.
Curtiss Candy Company, The, Chicago, Ill. Chewing gum. 255,972; Nov. 6. Class 46.
Curtiss Candy Company, The, Chicago, Ill. Candy bars. 265,468; Nov. 6. Class 46.
Drey, Simpson & Company Limited, South Reddish, Stockport, and Manchester, England. Cloths and stuffs of wool, worsted, etc. 272,392; Nov. 6. Class 42.
Driscoll, Daniel J., New York, N. Y. Dog food. 264,089; Nov. 6. Class 46.
Dunlap & Co., New York, N. Y. Hats for men. 255,746; Nov. 6; Class 39.
Duplan Silk Corporation, New York, N. Y. Rayon and silk piece goods and mixtures thereof. 273,136; Nov. 6. Class 42.
Eastern Finishing Works, Kenyon, R. I. Awning cloth in the piece. 271,540; Nov. 6. Class 42.
Economy Housing Company, Onowa, Iowa. Portable hog houses, chicken houses, etc. 271,067; Nov. 6. Class 12.
Egg Patents Limited, London, England. Eggs, egg yolks, etc. 246,336–8; Nov. 6. Class 46.
Elco Paint Products, Inc., New York, N. Y. Enamel paints, cement coating, barn paints, etc. 265,325; Nov. 6. Class 16.
Electric Service Supplies Company, Philadelphia, Pa. Conducting infusible refractory filler for lightning arresters. 254,073; Nov. 6. Class 21.
Emergency Laboratories, New York, N. Y. Soap. 272,548; Nov. 6. Class 4.
Emery, Dr. Lydia E., doing business as The Patricius Company, Pasadena, Calif. Medicinal ointment. 270,322; Nov. 6. Class 6.
Eneglotaria Medicine Co., Inc., New York, N. Y. Rubbing alcohol. 268,685; Nov. 6. Class 6.
Esmond Mills, The, Esmond, R. I. Textile blankets. 272,937; Nov. 6. Class 42.
Essley, E. L., Machinery Co., The, Chicago, Ill. Vertical boring mills, drill presses, face grinders, etc. 269,399; Nov. 6. Class 23.
Experimenter Publishing Company, New York, N. Y. Magazine. 244,352; Nov. 6. Class 38.
Finocchio, Vincent, Brooklyn, N. Y. Hair tonic. 271,644; Nov. 6. Class 6.
Firth-Sterling Steel Company, McKeesport, Pa. Steel. 266,198; Nov. 6. Class 14.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 245,195; Nov. 6. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 273,138; Nov. 6. Class 42.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Gerace, Robert, doing business as Twin Cross Chemical Co., Brooklyn, N. Y. Insecticide. 272,399; Nov. 6. Class 6.
Gershel, Ben., Dress Corp., New York, N. Y. Dresses. 271,422; Nov. 6. Class 39.
Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Cleaners. 261,622; Nov. 6. Class 4.
Gilbert, John O., Chocolate Co., Jackson, Mich. Candy. 271,809; Nov. 6. Class 46.
Goetz, M. K., Brewing Company, St. Joseph, Mo. Beverages. 268,091; Nov. 6. Class 48.
Goldberg, Albert, doing business as A D C O; Albert Drug Co.; and Albert Laboratories, Philadelphia, Pa. Medicinal preparation, rubbing liniment, etc. 267,949; Nov. 6. Class 6.
Golden Age Co. (See Scotland, Bayard S.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Pneumatic tires, inner tubes, etc. 273,140; Nov. 6. Class 35.
Graham, Mary L., New York, N. Y. Toilet article. 271,182; Nov. 6. Class 6.
Grant, J. E., doing business as Grant's Hygienic Food Products Co., Berkeley, Calif. Crackers. 271,183; Nov. 6. Class 46.
Grennan Bakeries, Incorporated, Chicago, Ill. Cake. 265,045; Nov. 6. Class 46.
Guymon Petro Mercantile Company, The, Hutchinson, Kans. Canned fruits, vegetables, and oysters, mustard, extracts, etc. 265,209; Nov. 6. Class 46.
Haartz, J. C., Company, New Haven, Conn. Raincoats. 270,931; Nov. 6. Class 39.
Haeberli, Fred, New York, N. Y. Cheese. 265,103; Nov. 6. Class 46.
Hall, William F., jr., doing business as Cincolade Manufacturing Co., Statesville, N. C. Carbonated beverage and syrup. 261,878; Nov. 6. Class 45.
Hanes Hosiery Mills Company, Winston-Salem, N. C. Hosiery. 261,709; Nov. 6. Class 39.
Hardwick & Magee Company, Philadelphia, Pa. Textile carpets. 271,839; Nov. 6. Class 42.
Hemstreet Brothers, Salt Lake City, Utah. Cotton and rayon lace curtains, cotton sheets, and pillowcases, etc. 268,372; Nov. 6. Class 42.
Henderson & Hatcher, assignor to Henderson & Hatcher, Inc., Pittsburgh, Pa. Concrete blocks, concrete steps, sills, etc. 270,421; Nov. 6. Class 12.
Henderson & Hatcher, assignor to Henderson & Hatcher, Inc., Pittsburgh, Pa. Concrete blocks, concrete steps, plaster, etc. 270,422; Nov. 6. Class 12.
Hickey-Freeman Co., Rochester, N. Y. Men's overcoats and topcoats. 272,211; Nov. 6. Class 39.
Home Incinerator Company, Milwaukee, Wis. Domestic garbage and refuse incinerators. 269,957; Nov. 6. Class 34.
Houbigant, Inc., New York, N. Y. Perfume, face powder, bath salts, etc. 272,659; Nov. 6. Class 6.
Howe, Warren D., D. M., doing business as Crown Products Company, Clarence, Mo. Medicines. 265,273; Nov. 6. Class 6.
International Agricultural Corporation, New York, N. Y. Stock and poultry food supplement. 272,103; Nov. 6. Class 46.
International Silver Company, Meriden and Bridgeport, Conn. Silver-plated flat tableware. 270,296; Nov. 6. Class 28.
Irving Iron Works Company, Long Island City, N. Y. Reenforced concrete flooring structures. 272,032–3; Nov. 6. Class 12.
Irving Iron Works Company, Long Island City, N. Y. Metal grating for flooring. 272,034; Nov. 6. Class 12.
J & Y Medicine Co. (See Jeffries & Yauger Medicine Co.)
Jaton Manufacturing Corporation, Brooklyn, N. Y. Impregnated fabrics. 271,759; Nov. 6. Class 50.
Jeddo-Highland Coal Company, Jeddo, Pa. Coal. 271,698; Nov. 6. Class 1.
Jeffries & Yauger Medicine Co., doing business as J & Y Medicine Co., Mount Vernon, Ohio. Medicine. 269,409; Nov. 6. Class 6.
Johnson & Company, St. Peter, Minn. Men's overalls, work pants, coats, etc. 270,082; Nov. 6. Class 39.
Jordeau, Jean, Inc., South Orange, N. J., and New York, N. Y. Cream used before shaving. 261,230; Nov. 6. Class 4.
Journeay, Floyd, Woodbridge, Calif. Fresh grapes. 258,946; Nov. 6. Class 46.
Keebler Weyl Baking Co., Philadelphia, Pa. Biscuits. 272,817; Nov. 6. Class 46.
Kiefer, Edgar S., Tanning Company, Grand Rapids, Mich. Pigskin. 271,051; Nov. 6. Class 1.
Kiefer, Edgar S., Tanning Company, Grand Rapids, Mich. Counters, welting, heels, and box toes. 271,052; Nov. 6. Class 39.
King Features Syndicate, Inc., New York, N. Y. Newspaper section. 272,408; Nov. 6. Class 38.
Kotex Company, Chicago, Ill. Sanitary napkins. 272,106; Nov. 6. Class 44.
Krak-O-Wheat Company, Redwood Falls, Minn. Breakfast Cereal. 272,160; Nov. 6. Class 46.
Kraus, Solomon B., Brooklyn, N. Y. Flat white paints, penetrating stains, paint enamels, etc. 272,161; Nov. 6. Class 16.
Lake Charles Rice Milling Company, assignor to Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 265,728; Nov. 6. Class 46.
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Rice. 272,222; Nov. 6. Class 46.
Lamar Alfalfa Milling Co., The, Lamar, Colo. Alfalfa meal. 272,818; Nov. 6. Class 46.
Larre' Laboratories. (See Lawrence, F. E.)
La Societe Anonyme des "Automobiles Unic," Puteaux, France. Bicycles, bicyclettes, tricycles, etc. 270,748; Nov. 6. Class 19.
Lavrenz, Gustav, jr., Campbellsport, Wis. Chemically-treated cloth. 270,637; Nov. 6. Class 4.
Lawrence, F. E., doing business as Larre' Laboratories, Denver, Colo. Female suppositories. 272,410; Nov. 6. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet water, face powder, etc. 270,553; Nov. 6. Class 6.
Likoffy Sales Company. (See American Cereal-Coffee Company.)
Lilly, Eli, and Company, Indianapolis, Ind. Medicine. 272,568; Nov. 6. Class 6.
Lincoln Pipe Works, Brooklyn, N. Y. Smoking pipes. 272,764; Nov. 6. Class 8.
Linde & Rubin, Inc., New York, N. Y. Dresses, gowns, and wraps. 262,231; Nov. 6. Class 39.
Lindsey & Son, St. Louis, Mo. Batteries. 271,395; Nov. 6. Class 21.
Loeffler, Anton, doing business as Purity Products Sales Co., St. Louis, Mo. Mouth wash. 262,857; Nov. 6. Class 6.
Los Angeles Brewing Co., Los Angeles, Calif. Malt extract and malt syrup. 267,977; Nov. 6. Class 46.
Low, Thomas M., & Company, Fresno, Calif. Dried calimyrna figs. 237,082; Nov. 6. Class 46.
Lucidol Corporation. (See Novadel Process Corporation, assignor.)
Lyman-Beers Company, Springfield, Mass. Material for polishing metals, etc. 264,593; Nov. 6. Class 4.
Mackinnon, E., & Coelho, Buenos Aires, Argentina. Paraguayan tea. 262,255; Nov. 6. Class 46.
Mark Cross Company, New York, N. Y. Suitcases, hand bags, wallets, etc. 263,960; Nov. 6. Class 3.
Mathieson Alkali Works, Inc., The, New York, N. Y. Hypochlorite. 273,150; Nov. 6. Class 6.
Matsuoka, Atow, San Francisco, Calif. Imitation pearls, imitation pearl necklaces, and imitation pearl jewelry. 271,495; Nov. 6. Class 28.
Max, George L., doing business as Maxine Products Co., Detroit, Mich. Shampoo in the nature of a liquid soap. 267,369; Nov. 6. Class 4.
McCormick, Charles T., doing business as Alphabet Chewing Gum Co., Chicago, Ill. Chewing gum. 272,948; Nov. 6. Class 46.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candy-confection sandwich. 271,814; Nov. 6. Class 46.
McKay, Richard, doing business as Oikimo Co., Ferndale, Mich. Medicine. 272,339; Nov. 6. Class 6.
McKinnie, Henry, Pittsburgh, Pa. Heating appliances. 268,292; Nov. 6. Class 34.
Mead, Chas. P., & Sons Inc., Rochester, N. Y. Malt extract. 268,082; Nov. 6. Class 46.
Mecky, A., Company, Philadelphia, Pa. Walking pull toys including toy vehicles. 272,225; Nov. 6. Class 22.
Medico Laboratories, The, Chicago, Ill. Medicinal preparation 260,339; Nov. 6. Class 6.
Metals Protection Corporation, Indianapolis, Ind. Salts and buffing compounds. 255,567; Nov. 6. Class 6.
Mexia Textile Mills, Mexia, Tex. Cotton duck in the piece. 263,046–7; Nov. 6. Class 42.
Meyer, Hugo, & Co., New York, N. Y. Focusing and exposure meter. 272,826; Nov. 6. Class 26.
Midwest Refining Co., The, Denver, Colo. Gasolines, kerosenes, fuel oils, etc. 261,200; Nov. 6. Class 15.
Minneapolis Allied Grocers, Inc., Minneapolis, Minn. Canned fruits and vegetables. 263,007; Nov. 6. Class 46.
Mirror, The, New York, N. Y. Candy. 262,862; Nov. 6. Class 46.
Moline Pressed Steel Co., East Moline, Ill. Tool chests. 263,414; Nov. 6. Class 2.
Monnier, L., & Cie., La Chaux-de-Fonds, Switzerland. Watches and watch materials, all parts for watches and clocks, etc. 267,379; Nov. 6. Class 27.
Moon, Marion E., doing business as The Urogen Company, New London, Conn. Medicine. 264,833; Nov. 6. Class 6.
Moore, Bradford Van R., doing business as Camp Creek Duck Farm, Monticello, Ill. Poultry. 272,042; Nov. 6. Class 46.
Murdoch, Reid, and Co., Chicago, Ill. Candy. 272,579; Nov. 6. Class 46.
National Electric Products Corporation, Pittsburgh, Pa. Conduits for electrical wires and cables and fittings therefor. 270,852; Nov. 6. Class 21.
National Licorice Company, Brooklyn, N. Y. Licorice candy. 268,625; Nov. 6. Class 46.
National Nut Company of California, Oakland, Calif. Salted peanuts. 272,951; Nov. 6. Class 46.
National Road Marker, Inc., Chicago, Ill. Road markers. 270,855; Nov. 6. Class 50.



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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. 272,731; Nov. 6. Class 24.
Nelly, William C., New York, N. Y. Internal treatment for obesity, etc. 273,239; Nov. 6. Class 6.
Neptron Corporation, Beverly, Mass. Electron radio tubes. 271,768; Nov. 6. Class 21.
New Orleans Coffee Co., Ltd., New Orleans, La. Cane syrup. 271,451; Nov. 6. Class 46.
Newport Company, The, Carrollville, Wis. Paints. 266,391; Nov. 6. Class 16.
Nifty Cleaner Co., Montgomery, Ala. Polishing composition. 270,343; Nov. 6. Class 16.
Norwich Pharmacal Company, The, Norwich, N. Y. Shaving cream. 270,555; Nov. 6. Class 4.
Novadel Process Corporation, assignor to Lucidol Corporation, Buffalo, N. Y. Benzoyl peroxide and other peroxides and chemicals. 263,966; Nov. 6. Class 6.
Nut-Cla Edible Nut Oil Product Co. (See Waldman, Elvera D.)
O'Connell Hat Co. Inc., New York, N. Y. Ladies' hats. 269,139; Nov. 6. Class 39.
Oikimo Co. (See McKay, Richard.)
Old Ben Coal Corporation, Chicago, Ill. Coal. 271,355; Nov. 6. Class 1.
Old Trusty Dog Food Company, Needham Heights, Mass. Dog food. 267,449; Nov. 6. Class 46.
Orange-Crush Company, Chicago, Ill. Combined apparatus serving as a drink stand. 272,298; Nov. 6. Class 23.
Pacent Electric Company, Incorporated, New York, N. Y. Electrical switches for phonograph motors. 271,561; Nov. 6. Class 21.
Pacent Electric Company, Incorporated, New York, N. Y. Electric control for phonograph motors. 271,562; Nov. 6. Class 21.
Pappas, Nick G., Hanna, Wyo. Palliative. 271,144; Nov. 6. Class 6.
Park, Holtorf & Guy, New York, N. Y. Dressed turkeys, eggs, etc. 271,662; Nov. 6. Class 46.
Partenico, Flora, Los Angeles, Calif. Bread, breakfast food. 273,004; Nov. 6. Class 46.
Patricius Company, The. (See Emery, Dr. Lydia E.)
Petersen, P. F., Baking Co., Omaha, Nebr. Cake and sweet rolls. 262,176; Nov. 6. Class 46.
Phi Beta Delta Fraternity, New York, N. Y. Fraternity pins, badges, cuff links, etc. 260,848; Nov. 6. Class 28.
Phillips, Elwood C., Evanston, Ill. Rice boilers, roasters, bread pans, etc. 268,746; Nov. 6. Class 13.
Picot Laboratories, Inc., Buffalo, N. Y. Soap. 273,114; Nov. 6. Class 4.
Pinnacle Mills, Morristown, Tenn. Wheat flour, flour meal, and livestock foodstuffs. 268,808; Nov. 6. Class 46.
Pioneer Suspender Company, Philadelphia, Pa. Suspenders, belts, and garters. 271,145; Nov. 6. Class 39.
Pompeian Corporation, The, Baltimore, Md. Olive oil. 267,994; Nov. 6. Class 46.
Pure Oil Company, The, Chicago, Ill. Oils and greases. 272,002; Nov. 6. Class 15.
Puritan Knitting Mills, Inc. Knitted jackets. 262,678; Nov. 6. Class 39.
Purity Products Sales Co. (See Loeffler, Anton.)
Quaker Oil Corporation, St. Louis, Mo. Lubricating oil. 271,197; Nov. 6. Class 15.
Quynn Products Co., Brooklyn, N. Y. Soap. 262,575; Nov. 6. Class 4.
Radio Design Publishing Co., Inc., Brooklyn, N. Y. Publication. 265,237; Nov. 6. Class 38.
Raritan Rubber, Inc., New Brunswick, N. J. Nonmetallic tires. 273,005; Nov. 6. Class 35.
Recordak Corporation, Rochester, N. Y. Photographic recording machines, etc. 266,401; Nov. 6. Class 26.
Recordak Corporation, Rochester, N. Y. Photographic film. 273,115; Nov. 6. Class 26.
Rigney, William A., Newark, N. J. Medicine. 273,117; Nov. 6. Class 6.
Ruppert, Jacob, New York, N. Y. Beverages. 271,512; Nov. 6. Class 48.
Ryley, Rupert A., New York, N. Y. Men's suits or clothing. 270,205; Nov. 6. Class 39.
Rytex Company, The, Indianapolis, Ind. Loose-leaf notebook tabular section dividers. 271,570; Nov. 6. Class 37.
Salter Canning Company, North Rose, N. Y. Canned berries, fruits, and vegetables. 265,297; Nov. 6. Class 46.
Sanitary Grocery Company, Incorporated, Washington, D. C. Bread, eggs, peanut butter, etc. 272,008; Nov. 6. Class 46.
Schlosser, M. & F., Paper Corporation, New York, N. Y. Periodical. 272,488; Nov. 6. Class 38.
Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, overcoats, etc. 271,274; Nov. 6. Class 39.
Schramm, Jean, G. m. b. H., Nuremberg, Germany. All kinds of paintbrushes, artists' brushes, etc. 271,123; Nov. 6. Class 29.
Schreiber, William N. P., doing business as Universal Laboratories, New York, N. Y. Radio receiving sets and vacuum radio tubes. 253,682; Nov. 6. Class 21.
Schueller, Eugène, Paris, France. Dyes, hair lotions, perfumes, etc. 271,572; Nov. 6. Class 6.
Scotland, Bayard S., doing business as Golden Age Co., Joliet, Ill. Gelatin dessert. 272,184; Nov. 6. Class 46.
Scott-Huntington, Humbert T., New York, N. Y., and Providence, R. I. Electrical apparatus. 269,880; Nov. 6. Class 26.
Sears & Derr Company, The, Chillicothe, Ohio, and Booneville, Ind. Food flavoring extracts and table syrups. 260,534; Nov. 6. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Harness. 272,434; Nov. 6. Class 3.
Sears, Roebuck and Co., Chicago, Ill. Harness. 272,436; Nov. 6. Class 3.
Shaw-Walker Company, The, Muskegon, Mich. Adjustable partition plates. 271,628; Nov. 6. Class 32.
Sheer, H. M., Company, Quincy, Ill. Brooder stoves. 264,203; Nov. 6. Class 34.
Sherwood Distilling and Distributing Company, The, Baltimore, Md. Whiskey. 263,672; Nov. 6. Class 49.
Skiboard Corporation Brooklyn, N. Y. Self-propelled aquaplane. 270,055; Nov. 6. Class 22.
Smith-Young Company. See Young, Randal.)
Societe Anonyme: Parfumerie Violet, Paris, France. Soaps, soap creams, and bath soaps. 270,783; Nov. 6. Class 4.
Southern Oil Stores, Inc., Birmingham, Ala. Gasoline. 271,630; Nov. 6. Class 15.
Sportcraft Knitting & Mfg. Co., Seattle, Wash. Sweaters, jackets, and skirts. 291,991; Nov. 6; Class 39.
Springfield Leather Products Company, The, Springfield, Ohio. Pocket letter cases, cigarette cases, etc. 268,247; Nov. 6. Class 3.
Squibb, E. R., & Sons, New York, N. Y. Sterile aqueous solution. 272,676; Nov. 6. Class 6.
Steele-Lobell Company, Baltimore, Md. Shoe and leather finishes, polishers, etc. 272,908; Nov. 6. Class 4.
Stirn, L. & E., New York, N. Y. Silk and wool mixed piece goods. 272,740; Nov. 6. Class 42.
Stokely Brothers & Company, Newport, Tenn. Canned vegetables, tomato catsup, etc. 272,446; Nov. 6. Class 46.
Stover Manufacturing & Engine Co., Freeport, Ill. Mops and mopsticks. 276,615; Nov. 6. Class 29.
Straus, Mitteldorfer, New York, N. Y. Novelty match containers. 268,003; Nov. 6. Class 8.
Studebaker Corporation, The, South Bend, Ind. Automobiles. 271,866; Nov. 6. Class 19.
Sutter Packing Co., Mayfield, Calif. Canned fruits. 273,025; Nov. 6. Class 46.
Sutter Packing Company, Mayfield, Calif. Canned fruits. 270,148; Nov. 6. Class 46.
Sutter Packing Company, Mayfield, Calif. Canned fruits. 270,151; Nov. 6. Class 46.
Swift and Company, Chicago, Ill. Food compound of cheese, bacon, milk, etc. 272,363; Nov. 6. Class 46.
Swift and Company, Chicago, Ill. Cured, pickled, and smoked pork. 272,364; Nov. 6. Class 46.
Swish Company, The. (See Trimbach, Frank X.)
Takamine Ferment Company, New York, N. Y. Koji, moyashi, diastase, ferments, etc. 254,683; Nov. 6. Class 6.
Tarantino, Daniel, New York, N. Y. Hair tonics. 272,365; Nov. 6. Class 6.
Teshnor, Maurice B., New York, N. Y. Syndicated serial newspaper pictures. 254,158; Nov. 6. Class 38.
Tesler, Abraham, Atlanta, Ga. Hosiery. 266,055; Nov. 6. Class 39.
Tetter, F., & Sons, Newark, N. J. Powder puffs. 268,327; Nov. 6. Class 29.
Thermo Company, Portland, Oreg. Pad impregnated with medicine. 267,470; Nov. 6. Class 6.
Thetis Laboratories, Detroit, Mich. Astringents, astringent cerates, bleach and beauty creams, etc. 271,719; Nov. 6. Class 6.
Time, Incorporated, New York, N. Y. Magazine. 271,459; Nov. 6. Class 38.
Trimbach, Frank X., doing business as The Swish Company, Lexington, Ky. Preparation in liquid form for treatment of hair and scalp. 273,214; Nov. 6. Class 6.
Twin Cross Chemical Co. (See Gerace, Robert.)
United Drug Company, Boston, Mass. Medicinal preparation. 272,681; Nov. 6. Class 6.
United Refining Company, Warren, Pa. Gasoline, lubricating oils, and greases. 271,669; Nov. 6. Class 15.
United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Racks. 253,121; Nov. 6. Class 32.
United States Chain Co., Long Island City, N. Y. Watch chains. 270,811; Nov. 6. Class 28.
Universal Laboratories. (See Schreiber, William N. P.)
Unjohn Company, The, Kalamazoo, Mich. Cod-liver oil. 273,165; Nov. 6. Class 6.
Urogen Company, The. (See Moon, Marion E.)
Utility Manufacturing Co. Inc., Baltimore, Md. Kitchen and bathroom wire goods. 267,620; Nov. 6. Class 13.
Van Ameringen, Arnold L., New York, N. Y. Essences of perfumes, ethereal oils, etc. 269,497; Nov. 6. Class 6.
Van Bokkelen, L., Buenos Aires, Argentina. Fresh fruit and vegetables and canned goods. 263,112; Nov. 6. Class 46.
Ventrosan Products, Inc., New York, N. Y. Medical formula. 271,211; Nov. 6. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

W-K-M Company, Inc., The, Houston, Tex. Pump valves, hooks, drills, etc. 269,500; Nov. 6. Class 23.
Wagner, Günther, Hanover, Germany. Painter's cardboard, rubber erasers, etc. 263,944; Nov. 6. Class 37.
Waldes Koh-I-Noo., Inc., Long Island City, N. Y. Hooks and eyes. 271,837; Nov. 6. Class 40.
Waldman, Elvera D., Chicago, Ill., doing business as Nut-Cia Edible Nut Oil Product Co., Boston, Mass. Edible nut oils. 264,933; Nov. 6. Class 46.
Waterman, L. E., Company, New York, N. Y. Writing inks. 268,193; Nov. 6. Class 11.
Waterman, L. E., Company, New York, N. Y. Writing inks. inks. 268,195; Nov. 6. Class 11.
Weidlich Sterling Spoon Co., Bridgeport, Conn. Silverware. 271,097; Nov. 6. Class 28.
Weinerth Knitting & Machine Co., Reading, Pa. Knitted underwear and hosiery. 272,087; Nov. 6. Class 39.
Weinstein, Ben, doing business as Ben Weinstein Company, Peoria, Ill. Malt syrup. 265,818; Nov. 6. Class 46.
Welch, C. E., Merced, Calif. Fresh grapes and fresh deciduous fruits. 273,034; Nov. 6. Class 46.
Western Shade Cloth Company, The, Chicago, Ill. Window shades. 271,522; Nov. 6; Class 32.
Western Shade Cloth Company, The, Chicago, Ill. Window shades. 271,525; Nov. 6. Class 32.
White Sewing Machine Corporation, Cleveland, Ohio. Sewing machines. 271,725; Nov. 6. Class 23.
Whitworth, Herbert, Limited, Manchester, England. Cotton handkerchiefs. 272,401; Nov. 6. Class 42.
Williamson Candy Co., Chicago, Ill. Candy. 273,036; Nov. 6. Class 46.
Winget Kickernick Company, Minneapolis, Minn. Pajamas. 272,594; Nov. 6. Class 39.
Wissmach, Paul, Glass Company, Inc., The, Long Island City, N. Y. Sheet glass. 272,918; Nov. 6. Class 33.
Woodfix Products Corporation, also doing business as Woodfix Products Company, Boston, Mass. Moldable repairing composition. 270,451; Nov. 6. Class 5.
Woolen Corporation of America, The, New York, N. Y. Wool, worsted, cotton, silk, etc. 273,218; Nov. 6. Class 42.
Wright & Ditson, Boston, Mass. Golf clubs. 269,168; Nov. 6. Class 22.
Wright & Ditson, Boston, Mass. Golf clubs. 272,632; Nov. 6. Class 22.
Yavan Limited, London, England. Adhesives. 272,243; Nov. 6. Class 5.
Young, Randal, doing business as Smith-Young Company, Cincinnati, Ohio. Paintbrushes. 269,564; Nov. 6. Class 29.
Zatex Laboratories, Lakewood, Ohio. Vaginal antiseptic and treatment for leucorrhœa. 273,219; Nov. 6. Class 6.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 2.

Reels and metal spools, Metal. Frank Mossberg Company. 73,137; renewed Mar. 16, 1929.

CLASS 3.

Bags, Leather and silk hand. H. Milgrim & Bros., Inc. 249,204; Nov. 6.
Currycombs. New York Stamping Company. 69,915; renewed July 14, 1928.
Trunks, carrying cases, etc., Wardrobe. W. W. Winship & Sons, Inc. 248,906; Nov. 6; Serial No. 269,342; published Aug. 21, 1928.

CLASS 4.

Cleaner for automobile bodies, etc. Permanizing Stations of America, Inc. 249,003; Nov. 6; Serial No. 267,077; published Aug. 21, 1928.
Cleaning compound, Metal-polish. Crystal Chemicals, Inc. 249,136; Nov. 6; Serial No. 231,983; published Aug. 21, 1928.
Cleansing compounds and detergents, Liquid. Stanco Incorporated. 249,191; Nov. 6; Serial No. 268,644; published Aug. 21, 1928.
Cleansing preparation. W. Marvin. 249,205; Nov. 6.
Dressing, Automobile top. F. T. Mutschler. 248,920; Nov. 6; Serial No. 262,374; published Aug. 21, 1928.
Dressings and polishes, Leather. L. Graziadei. 72,713; renewed Feb. 16, 1929.
Polish for silverware, gold, etc. F. Riendeau. 249,175; Nov. 6; Serial No. 260,529; published June 19, 1928.
Polish, Metal. Simon Manufacturing Company. 249,116; Nov. 6; Serial No. 267,671; published Aug. 21, 1928.
Polishes, Metal. Frank A. Busse Co. 249,184; Nov. 6; Serial No. 268,768; published Aug. 21, 1928.
Soap. N. Oliver. 248,972; Nov. 6; Serial No. 268,167; published Aug. 21, 1928.
Soap, Toilet. Mülhens & Kropff. 72,521; renewed Feb. 2, 1929.
Soaps. P. P. Mülhens. 248,931; Nov. 6; Serial No. 261,802; published Aug. 21, 1928.

CLASS 6.

Analgeso hypnotic. E. R. Squibb & Sons. 249,178; Nov. 6; Serial No. 268,822; published Aug. 28, 1928.
Aniline coloring material. Schoellkopf, Hartford & Hanna Company. 71,242; renewed Nov. 10, 1928.
Antiseptic preparations. La Lysine Fornari International American Corporation. 249,183; Nov. 6; Serial No. 268,794; published Aug. 28, 1928.
Astringents, astringent cerates, beauty creams, etc. Gerré, Inc. 249,104; Nov. 6; Serial No. 267,945; published Aug. 14, 1928.
Astringents, astringent cerates, beauty creams, etc. P. B. Jacobs. 248,912; Nov. 6; Serial No. 269,292; published Aug. 28, 1928.
Astringents, astringent cerates, bleach creams, etc. Lightfoot Schultz Company. 248,921; Nov. 6; Serial No. 262,365; published Apr. 24, 1928.
Bitters, Stomach. H. A. Clemens. 248,899; Nov. 6; Serial No. 269,392; published Aug. 28, 1928.
Bleaching compound. J. Carnesecca. 249,106; Nov. 6; Serial No. 267,833; published Aug. 28, 1928.
Brilliantine and dressings for the hair. J. Schanzenbach & Co. 249,091; Nov. 6; Serial No. 268,515; published Aug. 28, 1928.
Carbon dioxide, Solid. Solid Carbonic Company. 248,986; Nov. 6; Serial No. 266,688; published Aug. 21, 1928.
Chemical compound for use in concrete. Cemroc, Inc. 248,915; Nov. 6; Serial No. 265,258; published Aug. 21, 1928.
Chemical product. Chemische Fabrik Jacobus G. m. b. H. 248,952; Nov. 6; Serial No. 263,860; published Aug. 14, 1928.
Compound, etc., Liquid. W. S. Herndon. 248,991; Nov. 6; Serial No. 265,963; published Aug. 28, 1928.
Compound, Chemical. Cemroc, Inc. 248,962; Nov. 6; Serial No. 265,259; published Aug. 21, 1928.
Concentrate or extract obtained from citrus fruit. Fairchild Bros. & Foster. 249,113; Nov. 6; Serial No. 267,761; published Aug. 21, 1928.
Cosmetics. M. Luneburg. 249,098; Nov. 6; Serial No. 268,105; published Aug. 21, 1928.
Cream, Cold, tissue, and vanishing. C. Hirt. 249,199; Nov. 6.
Creams, Facial, Palmolive-Peet Company. 248,941; Nov. 6; Serial No. 262,766; published Aug. 14, 1928.
Dentifrice, tooth powder, etc. H. C. Oltman. 249,186; Nov. 6; Serial No. 268,745; published Aug. 28, 1928.
Deodorants. Odorono Company. 249,182; Nov. 6; Serial No. 268,799; published Aug. 28, 1928.
Disinfectant and antiseptic. G. A. Jeffreys. 248,982; Nov. 6; Serial No. 266,817; published Aug. 14, 1928.
Dyes and glass frosting, Fabric. Red Spot Paint & Varnish Co. 249,109; Nov. 6; Serial No. 267,800; published Aug. 28, 1928.
Dyes and restorers, Hair. M. T. Valligny. 249,115; Nov. 6; Serial No. 267,676; published Aug. 14, 1928.
Gas, Concentrated natural. Philfuels Company. 249,082; Nov. 6; Serial No. 267,143; published Aug. 21, 1928.
Gases, Liquefied industrial. Philfuels Company. 249,081; Nov. 6; Serial No. 267,144; published Aug. 14, 1928.
Hair tonic and a liquid preparation for the hair. Z. H. Fenton. 248,992; Nov. 6; Serial No. 265,959; published Aug. 14, 1928.
Hairdressing. L. Franks. 249,046; Nov. 6; Serial No. 266,367; published Aug. 14, 1928.
Herb tea. J. C. Frese & Co. 70,038; renewed Oct. 20, 1928.
Herb teas and laxative preparations. Weber Medical Tea Company. 248,967; Nov. 6; Serial No. 268,331; published Aug. 28, 1928.
Insecticide. Peoples Drug Stores, Inc. 249,016; Nov. 6; Serial No. 268,935; published Aug. 28, 1928.
Insecticide and insect repellent. Rex Research Corporation. 249,043; Nov. 6; Serial No. 266,441; published Aug. 21, 1928.
Insecticidal material, Tree bands bearing. W. E. Grove. 248,965; Nov. 6; Serial No. 268,309; published Aug. 14, 1928.
Insecticides. A. C. Meyer. 71,028; renewed Oct. 27, 1928.
Liniment. M. Schmidt. 249,114; Nov. 6; Serial No. 267,726; published Aug. 14, 1928.
Liniment. Standard Products Co. 249,108; Nov. 6; Serial No. 267,808; published Aug. 14, 1928.
Lotion, Face and hand. J. B. Herlihy. 249,099; Nov. 6; Serial No. 268,097; published Aug. 14, 1928.
Lotions, After-shaving. Roger & Gallet. 249,023–5; Nov. 6; Serial Nos. 268,889–91; published Aug. 28, 1928.
Lye or caustic soda. E. Myers Lye Co. 249,139; Nov. 6; Serial No. 221,913; published Aug. 28, 1928.
Medicinal preparation. A. Doxakis. 249,128; Nov. 6; Serial No. 251,179; published Aug. 14, 1928.
Medicine. J. Lore. 248,924; Nov. 6; Serial No. 261,822; published Aug. 14, 1928.



Medicine. H. R. Pease. 249,222; Nov. 6.
Medicine. J. Pinto. 248,985; Nov. 6; Serial No. 266,746; published Aug. 14, 1928.
Medicine. H. J. Resokoff. 249,167; Nov. 6; Serial No. 269,607; published Aug. 21, 1928.
Medicines and toilet articles, Family. L. B. Franchina. 249,140; Nov. 6; Serial No. 203,464; published Aug. 21, 1928.
Mouth wash. B. J. Stearn. 249,177; Nov. 6; Serial No. 268,824; published Aug. 21, 1928.
Nicotine dusting powder. American Nicotine Company. 249,176; Nov. 6; Serial No. 268,839; published Aug. 28, 1928.
Pancreas gland, of the water-soluble constituents, etc., Concentrate of the fresh. Fairchild Bros. & Foster. 249,029; Nov. 6; Serial No. 268,857; published Aug. 28, 1928.
Perfumed toilet waters. Pinaud Incorporated. 248,948–9; Nov. 6; Serial Nos. 264,191–2; published Aug. 14, 1928.
Perfumes. Frederick Stearns & Company. 249,145; Nov. 6; Serial No. 269,230; published Aug. 28, 1928.
Perfumes and toilet water. Keystone Laboratories. 249,026; Nov. 6; Serial No. 268,869; published Aug. 28, 1928.
Perfumes, toilet vinegar, hair lotion, etc. A. Séré de Rivières. 249,097; Nov. 6; Serial No. 268,130; published Aug. 28, 1928.
Pharmaceutical preparation. F. A. Diaz. 248,932; Nov. 6; Serial No. 261,667; published Aug. 21, 1928.
Pharmaceutical preparation. M. J. Hernandez. 249,049; Nov. 6; Serial No. 266,319; published Aug. 21, 1928.
Pharmaceutical preparations. G. F. Smith. 72,258; renewed Jan. 12, 1929.
Potassium salt. Italian-Swiss Colony. 249,221; Nov. 6.
Powder and brilliantine, Face. Superior Products Company. 249,141; Nov. 6; Serial No. 269,268; published Aug. 28, 1928.
Powder, lotions, etc., Talcum and bath. Isabey-Paris, Inc. 248,913–14; Nov. 6; Serial Nos. 269,290–1; published Aug. 28, 1928.
Powder, perfume, etc., Face. Marie Earle, Inc. 249,004; Nov. 6; Serial No. 267,069; published Aug. 14, 1928.
Powder to be rubbed on stockings in order to increase their life. Marcel Franck, Inc. 249,146; Nov. 6; Serial No. 269,229; published Aug. 28, 1928.
Preparation. W. T. McHenry. 249,105; Nov. 6; Serial No. 267,849; published Aug. 21, 1928.
Preparation. I. Shaban. 248,911; Nov. 6; Serial No. 269,324; published Aug. 21, 1928.
Preparation for overcoming intestinal putrefaction, etc., Special. Alpha Laboratories. 249,219; Nov. 6.
Preparation for preventing corrosion of metal. C. A. Wallerstein. 249,171; Nov. 6; Serial No. 260,925; published Aug. 28, 1928.
Preparation for the treatment of rheumatism, lumbago, etc. Omega Chemical Company. 248,951; Nov. 6; Serial No. 263,887; published Aug. 28, 1928.
Preparation for the treatment of rheumatism, lumbago, etc. Omega Chemical Company. 248,999; Nov. 6; Serial No. 263,510; published Aug. 28, 1928.
Preparations, Antiseptic, diuretic, etc. W. J. Trevaskis. 249,137; Nov. 6; Serial No. 231,212; published Aug. 28, 1928.
Preparations for the treatment of diseases peculiar to women. S. B. Leonardi & Co. Inc. 248,977; Nov. 6; Serial No. 266,939; published Aug. 14, 1928.
Purifier, Blood. H. H. Hyams. 72,819; renewed Feb. 23, 1929.
Remedies for certain diseases. Mother's Remedies Co. 71,172; renewed Nov. 3, 1928.
Repellent, Moth. Pacific Chemical Company. 249,181; Nov. 6; Serial No. 268,801; published Aug. 28, 1928.
Salt. Mulkey Salt Co. 249,193; Nov. 6; Serial No. 268,623; published Aug. 14, 1928.
Salt, baking powder, and sal soda. Janssen Company. 248,988; Nov. 6; Serial No. 266,595; published Aug. 28, 1928.
Sodium para-aminophenylarsonates. H. S. Wellcome. 73,155; renewed Mar. 23, 1929.
Spray, Nose and throat. Stanco Incorporated. 248,984; Nov. 6; Serial No. 266,764; published Aug. 28, 1928.
Spreaders for combination with insecticides. Hercules Glue Company. 248,969; Nov. 6; Serial No. 268,280; published Aug. 28, 1928.
Talcum powder, liquid astringents, face wash, etc. A. M. Fisher. 249,215; Nov. 6.
Toilet preparations. Zona Toilet Co. 70,824; renewed Oct. 6, 1928.
Tonic for improving the condition of the hair of human bodies. N. C. Drake. 248,905; Nov. 6; Serial No. 269,347; published Aug. 28, 1928.
Tonic having a wine base, General. L. N. Renault & Sons, Inc. 249,037; Nov. 6; Serial No. 259,183; published Aug. 28, 1928.
Uroclasio, a medicinal preparation for all kinds of uricemics. S. A. R. M. Società Anonima Ritrovati Medicinali. 249,065; Nov. 6; Serial No. 256,014; published Aug. 28, 1928.

CLASS 7.

Rope. Grady-Travers Company. 249,027; Nov. 6; Serial No. 268,864; published Aug. 28, 1928.

CLASS 9.

Explosives and blasting caps and fuses, High. E. I. du Pont de Nemours Powder Company. 72,064; renewed Dec. 29, 1928.
Shotguns and rifles. Sloan's Sporting Goods Co. Inc. 248,909; Nov. 6; Serial No. 269,327; published Aug. 28, 1928.

CLASS 13.

Curtain, Water-repelling shower. Para Rubber Company. 249,174; Nov. 6; Serial No. 260,696; published Aug. 28, 1928.
Regulators, Gas-pressure. Purox Company. 249,110; Nov. 6; Serial No. 267,799; published Aug. 28, 1928.
Screws. Keeler Brass Company. 248,895; Nov. 6; Serial No. 269,588; published Aug. 28, 1928.

CLASS 14.

Brass ingots, bronze ingots, pig lead, etc. H. Kramer & Company. 249,157; Nov. 6; Serial No. 269,122; published Aug. 21, 1928.
Chromium-coated sheets and rolls of sheet metal. American Nickeloid Company. 248,980; Nov. 6; Serial No. 266,846; published Aug. 14, 1928.
Hardware, Automobile body. Ternstedt Manufacturing Company. 249,051; Nov. 6; Serial No. 266,283; published Aug. 21, 1928.
Metals, alloys, and solders. J. B. Cooper. 248,944; Nov. 6; Serial No. 264,358; published Aug. 21, 1928.
Metals, Heat-treated ferrous. Link-Belt Company. 248,922; Nov. 6; Serial No. 262,232; published Aug. 21, 1928.
Welding rods. Purox Company. 249,111; Nov. 6; Serial No. 267,797; published Aug. 21, 1928.

CLASS 16.

Carbon black. United Carbon Company. 249,072; Nov. 6; Serial No. 267,399; published Aug. 21, 1928.
Paints, paint enamels, and varnishes, Ready-mixed. A. Solberg. 249,225; Nov. 6.
Paints, varnishes, and lacquers, Paste and ready-mixed. Devoe & Raynolds Co. 249,094; Nov. 6; Serial No. 268,490; published Aug. 21, 1928.
Polish, Automobile. E. B. Old. 249,078; Nov. 6; Serial No. 267,176; published Aug. 21, 1928.
Polish, Automobile. P. Roser Manufacturing Company. 248,978; Nov. 6; Serial No. 266,885; published Aug. 21, 1928.
Preparation in the nature of a lacquer. Armstrong Cork Company. 249,032; Nov. 6; Serial No. 266,507; published Aug. 28, 1928.
Turpentine and substitute therefor, Spirits of. Sun Company. 72,675; renewed Feb. 9, 1929.
Turpentine and substitute therefor, Spirits of. Sun Company. 72,763; renewed Feb. 9, 1929.

CLASS 17.

Cigars. A. Alfieri. 249,206; Nov. 6.
Cigarettes. D. W. Lester. 249,166; Nov. 6; Serial No. 269,670; published Aug. 28, 1928.

CLASS 19.

Automobile heaters. Kunkel Manufacturing Company. 249,038; Nov. 6; Serial No. 259,733; published Aug. 28, 1928.
Automobiles, Used. R. J. Murphy. 249,034; Nov. 6; Serial No. 266,550; published Aug. 28, 1928.
Trucks and constructive parts thereof, Automobile. G. M. Malcolm. 249,211; Nov. 6.

CLASS 22.

Baseballs, boxing gloves, etc. Ken-Wel Sporting Goods Co. 248,987; Nov. 6; Serial No. 266,596; published Aug. 21, 1928.
Boards used in the construction of full-sized toys. E. W. Rogers. 249,220; Nov. 6.
Dolls. Geo. Borgfeldt & Co. 248,926; Nov. 6; Serial No. 265,088; published Aug. 14, 1928.
Games, Card. Selchow and Righter. 248,956; Nov. 6; Serial No. 263,671; published Aug. 14, 1928.
Games, Table ball. Home Game Company. 248,957; Nov. 6; Serial No. 265,792; published Aug. 21, 1928.
Golf balls, clubs, and bags. Shield Co. Inc. 248,910; Nov. 6; Serial No. 269,325; published Aug. 21, 1928.
Golf clubs. B. O. Lantz. 249,085; Nov. 6; Serial No. 267,131; published Aug. 14, 1928.
Golf clubs. R. H. Macy & Co. 249,093; Nov. 6; Serial No. 268,503; published Aug. 21, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 248,897; Nov. 6; Serial No. 269,540; published Aug. 21, 1928.
Life preservers, etc. Atlantic-Pacific Mfg. Corpn. 249,090; Nov. 6; Serial No. 268,528; published Aug. 21, 1928.
Scooters, kiddie cars, etc. Junior Wheel Goods Corporation. 249,129; Nov. 6; Serial No. 260,997; published Aug. 14, 1928.

CLASS 23.

Bearings, Ball. Standard Steel and Bearings Incorporated. 248,919; Nov. 6; Serial No. 262,423; published Aug. 28, 1928.
Branding, tattooing, etc., Device for. Weston Manufacturing & Supply Company. 249,021; Nov. 6; Serial No. 268,897; published Aug. 28, 1928.
Cutters with replaceable blades. Gillette Safety Razor Company. 249,087; Nov. 6; Serial No. 268,600; published Aug. 28, 1928.
Cutters with replaceable blades. Gillette Safety Razor Company. 249,117; Nov. 6; Serial No. 267,650; published Aug. 28, 1928.
Jacks, Hydraulic. U. S. Hydraulic Development Company. 249,022; Nov. 6; Serial No. 268,894; published Aug. 28, 1928.

Jacks, Lifting. Templeton, Kenly & Co. 249,102; Nov. 6; Serial No. 268,063; published Aug. 28, 1928.
Knives, scissors, and razors, Pocket. Wester Bros. 72,465; renewed Jan. 26, 1929.
Needles and shuttles, Sewing-machine. Boye Needle Company. 72,417; renewed Jan. 26, 1929.
Pump shafts and poppet valves. Thompson Products, Inc. 249,035; Nov. 6; Serial No. 258,049; published Aug. 28, 1928.
Sprayers, spray pumps, etc. D. B. Smith & Company. 249,192; Nov. 6; Serial No. 268,639; published Aug. 28, 1928.
Tank with battery of containers, Portable oil-pump. Oil Products Appliance Company. 249,144; Nov. 6; Serial No. 269,249; published Aug. 28, 1928.

CLASS 24.

Ironing machines. Wonder Ironer Manufacturing Corporation. 248,896; Nov. 6; Serial No. 269,541; published Aug. 28, 1928.

CLASS 25.

Locks, Telephone dial. W. B. James. 249,202; Nov. 6.

CLASS 26.

Cameras. Photographic. Ansco Photoproducts, Inc. 249,040; Nov. 6; Serial No. 260,308; published Aug. 28, 1928.
Cameras, Photographic. Ansco Photoproducts, Inc. 249,169; Nov. 6; Serial No. 260,930; published Aug. 28, 1928.
Cameras, Photographic. Ansco Photoproducts, Inc. 249,170; Nov. 6; Serial No. 260,928; published Aug. 28, 1928.
Lenses, Ophthalmic. Bausch & Lomb Optical Company. 249,015; Nov. 6; Serial No. 268,960; published Aug. 28, 1928.

CLASS 30.

China. Heinrich & Winterling Inc. 249,061; Nov. 6; Serial No. 257,065; published Aug. 28, 1928.

CLASS 31.

Refrigerating machines. Excelsior Motor Mfg. & Supply Co. 249,020; Nov. 6; Serial No. 268,919; published Aug. 28, 1928.
Refrigerators. Rockford Steel Furniture Company. 249,179–80; Nov. 6; Serial Nos. 268,815–16; published Aug. 28, 1928.

CLASS 32.

Mattresses, Cotton-felt. C. C. Carty. 72,863; renewed Mar. 2, 1929.

CLASS 33.

Glassware, Table. Tiffany & Company. 249,086; Nov. 6; Serial No. 267,096; published Aug. 21, 1928.

CLASS 34.

Burners for oil-burning lamps and lanterns, Flat-wick. R. E. Dietz Company. 72,385; renewed Jan. 19, 1929.
Heaters, Gas and oil water. Hotstream Heater Company. 249,045; Nov. 6; Serial No. 266,374; published Aug. 28, 1928.
Machines for washing garments and fabrics, wringing and mangling machines, etc. Isaac Braithwaite & Son, Engineers, Limited. 249,047; Nov. 6; Serial No. 266,353; published Aug. 28, 1928.
Stoves and ranges and parts of stoves and ranges. Cribben & Sexton Company. 72,145; renewed Jan. 5, 1929.
Tanks, water heaters, etc., Storage and heating. Cleveland Heater Company. 249,071; Nov. 6; Serial No. 267,406; published Aug. 28, 1928.

CLASS 35.

Hose, Fabric. Eureka Fire Hose Manufacturing Company. 71,467; renewed Nov. 24, 1928.
Hose, Rubber. Purox Company. 249,112; Nov. 6; Serial No. 267,796; published Aug. 21, 1928.
Tires and the inner tubes and outer casings thereof, Pneumatic. Sterling Tire Corporation. 249,224; Nov. 6.

CLASS 37.

File pockets or containers for papers. A. N. Bushnell, jr. 249,101; Nov. 6; Serial No. 268,076; published Aug. 21, 1928.
Letterheads. Tile & Mantel Contractors' Association of America. 248,981; Nov. 6; Serial No. 266,843; published Aug. 21, 1928.
Paper. Hawley Pulp and Paper Company. 73,007; renewed Mar. 9, 1929.
Paper. Rochester Folding Box Co. 249,064; Nov. 6; Serial No. 256,309; published Aug. 21, 1928.
Paper, bond paper, bristol board, etc., Ledger. L. L. Brown Paper Company. 249,050; Nov. 6; Serial No. 266,297; published Aug. 21, 1928.
Paper, mailing envelopes, etc., Writing. Tiffany & Company. 249,080; Nov. 6; Serial No. 267,155; published Aug. 28, 1928.
Paper mulch, Specially-treated. United Paper Company. 248,983; Nov. 6; Serial No. 266,769; published Aug. 28, 1928.
Paper, Toilet. Megaree Bros. Inc. 249,150; Nov. 6; Serial No. 269,195; published Aug. 28, 1928.
Paper, Wrapping. J. P. Collins. 249,066–8; Nov. 6; Serial Nos. 255,896–8; published Aug. 28, 1928.
Paper, Wrapping. J. P. Collins. 249,066–70; Nov. 6; Serial Nos. 255,899–903; published Aug. 28, 1928.
Photographic-negative-retouching tool. N. De Remont. 248,938; Nov. 6; Serial No. 261,049; published Aug. 21, 1928.

CLASS 38.

Bulletin, Monthly. Horwath & Horwath. 248,971; Nov. 6; Serial No. 268,227; published Aug. 21, 1928.
Cards, printed advertising signs, and counter cards, Display. Schmidt Lithograph Company. 249,103; Nov. 6; Serial No. 267,999; published Aug. 21, 1928.
Magazine. Atlas Publishing Co. 249,159; Nov. 6; Serial No. 269,077; published Aug. 21, 1928.
Magazine. Cleveland Garment Manufacturers Association. 249,151; Nov. 6; Serial No. 269,183; published Aug. 21, 1928.
Magazine. Dean-Hicks Company. 248,935; Nov. 6; Serial No. 263,753; published Aug. 21, 1928.
Magazine. Improvement Association. 249,194; Nov. 6; Serial No. 268,611; published Aug. 21, 1928.
Magazine, Monthly. Crowell Publishing Company. 249,014; Nov. 6; Serial No. 268,972; published Aug. 21, 1928.
Pen name for newspaper feature articles. E. K. Wells. 249,208; Nov. 6.
Periodical. Felt & Tarrant Manufacturing Company. 249,028; Nov. 6; Serial No. 268,860; published Aug. 21, 1928.
Publication, Periodical. Standard Oil Company of New Jersey. 249,153; Nov. 6; Serial No. 269,159; published Aug. 21, 1928.
Publication, Weekly. Dewey Portland Cement Company. 249,100; Nov. 6; Serial No. 268,086; published Aug. 21, 1928.
Review, Weekly stock-market. Stock Market Reporter, Inc. 249,142; Nov. 6; Serial No. 269,267; published Aug. 21, 1928.
Textbooks, radio work sheets, etc. National Radio Institute. 248,968; Nov. 6; Serial No. 268,302; published Aug. 21, 1928.
Title of a monthly publication. Western Electric Company. 249,185; Nov. 6; Serial No. 268,758; published Aug. 21, 1928.

CLASS 39.

Belts. May Department Stores Company. 249,083; Nov. 6; Serial No. 267,138; published July 24, 1928.
Boots and shoes. B. Rosenberg & Sons, Inc. 248,960; Nov. 6; Serial No. 265,569; published July 10, 1928.
Boots, shoes, and clothing, Rubber. American Rubber Company. 71,986; renewed Dec. 29, 1928.
Boots, shoes, and slippers. Woodbury Shoe Mfg. Co. 248,917; Nov. 6; Serial No. 266,066; published July 10, 1928.
Boots, shoes, and slippers. Woodbury Shoe Mfg. Co. 248,942; Nov. 6; Serial No. 266,005; published July 24, 1928.
Boots, shoes, and slippers. Woodbury Shoe Mfg. Co. 248,989; Nov. 6; Serial No. 266,004; published July 10, 1928.
Boots, shoes, and slippers. Woodbury Shoe Mfg. Co. 249,055–6; Nov. 6; Serial Nos. 266,007–8; published July 24, 1928.
Brassières. J. W. Krause. 249,216; Nov. 6.
Caps and hats. Gordon Bros. Cap Co. 249,054; Nov. 6; Serial No. 266,243; published July 24, 1928.
Caps, Cloth. Julius H. Funk Company. 249,053; Nov. 6; Serial No. 266,083; published July 24, 1928.
Clothing, Children's, girls', and women's. Elfie, Inc. 249,134; Nov. 6; Serial No. 240,812; published July 24, 1928.
Corset garment. Charles H. Scott Company. 248,943; Nov. 6; Serial No. 262,542; published July 17, 1928.
Corsets, corset and brassière combinations, and brassières. I. Newman & Sons, Inc. 248,945; Nov. 6; Serial No. 264,320; published July 17, 1928.
Dresses, hats, coats, suits, Ladies'. McGreevey, Werring & Howell, Inc. 249,075; Nov. 6; Serial No. 267,370; published July 24, 1928.
Garments and knit wear, Outer. Alderwood Knitting Mills. 249,048; Nov. 6; Serial No. 266,344; published July 24, 1928.
Garters. C. H. Suckel. 248,990; Nov. 6; Serial No. 265,995; published July 24, 1928.
Gloves, Fabric. Louis Meyers & Son, Inc. 249,226; Nov. 6.
Gloves, Leather. Bacmo-Postman Co. 249,031; Nov. 6; Serial 266,509; published July 24, 1928.
Gloves, Men's unlined leather street. O. C. Hansen Mfg. Co. 248,930; Nov. 6; Serial No. 264,682; published July 24, 1928.
Gloves, Washable suede. Goessling and Ferre, Inc. 248,953; Nov. 6; Serial No. 263,819; published July 17, 1928.
Handkerchiefs. Acheson Harden Co. 249,077; Nov. 6; Serial No. 267,330; published Aug. 14, 1928.
Hats. Bronston Bros. and Co. 248,973; Nov. 6; Serial No. 267,032; published July 24, 1928.
Hats. P. H. Luther. 249,084; Nov. 6; Serial No. 267,134; published July 17, 1928.
Hats and caps. Good Value Hat & Cap Co. 249,041; Nov. 6; Serial No. 266,462; published July 17, 1928.
Hats and hat linings. Armstrong Cator Company. 249,217; Nov. 6.
Hats, Children's and misses'. I. Kronthal. 248,916; Nov. 6; Serial No. 265,158; published July 10, 1928.
Hats for the use of men, Straw. M. S. Levy & Sons, Inc. 248,928; Nov. 6; Serial No. 264,762; published July 10, 1928.



Hats, Ladies'. M. Brenner. 248,954; Nov. 6; Serial No. 263,851; published July 10, 1928.
Hats, Ladies'. Kanrich & Feiner. 249,005; Nov. 6; Serial No. 267,030; published July 17, 1928.
Hosiery. I. Miller and Sons, Incorporated. 249,000; Nov. 6; Serial No. 263,277; published July 17, 1928.
Hosiery, corsets, brassières, and girdles. F. M. Auspitz. 249,121; Nov. 6; Serial No. 254,442; published July 10, 1928.
Middies, reefers, hats, etc. Best & Co. 248,996; Nov. 6; Serial No. 265,882; published July 24, 1928.
Millinery. L. Bamberger & Company. 248,976; Nov. 6; Serial No. 266,966; published July 17, 1928.
Overalls, combined suits, sweaters, etc. Berne Mfg. Co. 248,950; Nov. 6; Serial No. 264,066; published July 24, 1928.
Shirts, blouses, etc., Negligee and dress. S. Liebovitz & Sons, Inc. 249,039; Nov. 6; Serial No. 259,736; published May 1, 1928.
Shoes. A. H. Geuting Company. 249,133; Nov. 6; Serial No. 241,613; published July 17, 1928.
Shoes. Hamilton, Brown Shoe Company. 249,057; Nov. 6; Serial No. 257,541; published July 17, 1928.
Shoes. L. Lowy. 248,918; Nov. 6; Serial No. 265,110; published July 24, 1928.
Shoes. Oppenheim, Collins & Co. 248,998; Nov. 6; Serial No. 265,802; published July 10, 1928.
Shoes. Dr. A. Posner Shoes, Inc. 249,074; Nov. 6; Serial No. 267,386; published July 24, 1928.
Shoes. Shaft-Pierce Shoe Co. 249,036; Nov. 6; Serial No. 258,931; published July 17, 1928.
Shoes. Sterling Shoes Corporation. 249,058; Nov. 6; Serial No. 257,487; published July 17, 1928.
Shoes, Basket-ball. Draper-Maynard Company. 248,925; Nov. 6; Serial No. 265,099; published July 17, 1928.
Shoes, Leather. F. G. Delbon. 249,223; Nov. 6.
Shoes, Leather. A. L. Wilson. 249,168; Nov. 6; Serial No. 260,909; published July 24, 1928.
Shoes, Women's. Styler Shoe Co. 248,959; Nov. 6; Serial No. 265,585; published July 10, 1928.
Smocks, gowns, dresses, etc. Hoover Mfg. Co. 248,929; Nov. 6; Serial No. 264,722; published July 17, 1928.
Soles and heels and rubber footwear, Rubber. Endicott Johnson Corporation. 248,961; Nov. 6; Serial No. 265,371; published July 17, 1928.
Soles and heels for boots and shoes. Phillips' Patents Limited. 249,044; Nov. 6; Serial No. 266,899; published July 17, 1928.
Undergarments, Women's. Weingarten Bros., Inc. 248,927; Nov. 6; Serial No. 265,078; published July 17, 1928.
Underwear, bath suits, vests, etc. H. Loeb & Co. 249,196–7; Nov. 6; Serial Nos. 243,161–2; published July 3, 1928.
Welting for boots and shoes. P. E. Barbour. 249,076; Nov. 6; Serial No. 267,334; published July 24, 1928.

CLASS 40.

Dress shields. I. B. Kleinert Rubber Company. 249,201; Nov. 6.

CLASS 41.

Canes, parasols, and umbrellas. I. Miller & Sons, Inc. 249,212–13; Nov. 6.

CLASS 42.

Blankets. Ely & Walker Dry Goods Company. 249,001; Nov. 6; Serial No. 254,900; published Aug. 7, 1928.
Canvas, Tobacco. Carter Dry Goods Company. 248,993–5; Nov. 6; Serial Nos. 265,885–7; published Aug. 28, 1928.
Cloths and stuffs of wool, worsted, or hair. Bradford Dyers' Association, Limited. 71,935; renewed Dec. 22, 1928.
Cotton cloth piece goods. Southern Manufacturing Company. 249,154; Nov. 6; Serial No. 269,157; published Aug. 21, 1928.
Cotton duck. John Boyle & Co. 72,281; renewed Jan. 12, 1929.
Cotton fabrics, Woven. Craftwoven Fabrics, Inc. 249,010; Nov. 6; Serial No. 255,640; published Aug. 28, 1928.
Cotton piece goods. Robinson & Golluber. 249,089; Nov. 6; Serial No. 268,562; published Aug. 21, 1928.
Cotton table covers and counterpanes. Atcha Adler Textildruckgesellschaft, Hamburg, m. b. H. 249,126; Nov. 6; Serial No. 252,637; published Aug. 21, 1928.
Piece goods, Embroidered. Atlas Embroidery Company. 249,060; Nov. 6; Serial No. 257,384; published Aug. 28, 1928.
Pile fabrics. Sidney Blumenthal & Co. Inc. 248,898; Nov. 6; Serial No. 269,506; published Aug. 28, 1928.
Silk in the piece. Dundee Textile Company. 249,161; Nov. 6; Serial No. 269,949; published Aug. 28, 1928.
Silk piece goods. Benrose Silk Mfg. Corp. 249,198; Nov. 6.
Silk piece goods. Berth Robert-Gross Inc. 249,148; Nov. 6; Serial No. 269,219; published Aug. 21, 1928.
Silk piece goods. Gallia Silk Mills. 73,082; renewed Mar. 16, 1929.
Velveteens. Mechanische Weberei zu Linden. 68,199; renewed Mar. 10, 1928.
Wool fabrics. Berth Robert-Gross Inc. 249,147; Nov. 6; Serial No. 269,220; published Aug. 21, 1928.
Woolen goods. S. Stein & Co. 249,165; Nov. 6; Serial No. 269,697; published Aug. 28, 1928.
Worsted and woolen piece goods. F. A. Bochmann & Co. 248,946; Nov. 6; Serial No. 264,276; published Aug. 28, 1928.
Worsted and woolen piece goods. F. A. Bochmann & Co. 248,947; Nov. 6; Serial No. 264,274; published Aug. 28, 1928.

CLASS 43.

Yarns and threads, Rayon. N. Y. Rayon Importing Co. 249,188; Nov. 6; Serial No. 268,698; published Aug. 28, 1928.

CLASS 44.

Catamenial napkins. Veldown Company. 249,096; Nov. 6; Serial No. 268,474; published Aug. 21, 1928.
Cotton and gauze, and silk and catgut ligatures, Absorbent. Lister Surgical Company. 70,693; renewed Sept. 22, 1928.
Nipples and surgical rubber gloves, Rubber nursing. Pyramid Rubber Specialty Company. 249,207; Nov. 6.

CLASS 45.

Beverages and sirups, extracts, and concentrates for making the same. Northwestern Extract Co. 248,904; Nov. 6; Serial No. 269,362; published Aug. 21, 1928.

CLASS 46.

Bonbons and chocolates, Assorted. S. H. Kress & Co. 249,017; Nov. 6; Serial No. 268,929; published Aug. 28, 1928.
Bread. Gordon Baking Company. 249,018; Nov. 6; Serial No. 268,923; published Aug. 21, 1928.
Bread. B. Westergaard & Co. 249,190; Nov. 6; Serial No. 268,666; published Aug. 21, 1928.
Bread. White Hall Baking Company. 248,907; Nov. 6; Serial No. 269,341; published Aug. 21, 1928.
Butter. A. F. Thibodeau Co. 249,149; Nov. 6; Serial No. 269,210; published Aug. 21, 1928.
Butter. Tip Top Creamery Co. 248,908; Nov. 6; Serial No. 269,333; published Aug. 21, 1928.
Butter, Creamery. J. Weingarten, Inc. 249,164; Nov. 6; Serial No. 269,701; published Aug. 28, 1928.
Butter, ice cream, condensed milk, etc., Creamery. Meadolake Milk Products Company. 248,937; Nov. 6; Serial No. 261,070; published Aug. 21, 1928.
Candies. Chocolaterie-Confiserie César Société Anomyne. 248,979; Nov. 6; Serial No. 266,849; published Aug. 21, 1928.
Candy. Barager-Webster Company. 249,042; Nov. 6; Serial No. 266,454; published Aug. 21, 1928.
Candy. M. C. Bruner. 248,900; Nov. 6; Serial No. 269,388; published Aug. 21, 1928.
Candy. Curtiss Candy Company. 249,088; Nov. 6. Serial No. 268,590; published Aug. 21, 1928.
Candy. Curtiss Candy Company. 249,095; Nov. 6; Serial No. 268,489; published Aug. 28, 1928.
Candy. I. Fuerst. 249,019; Nov. 6; Serial No. 268,921; published Aug. 28, 1928.
Candy. Honey Candy Company of America. 248,964; Nov. 6; Serial No. 268,374; published Aug. 21, 1928.
Candy. Imperial Candy Co. 248,933; Nov. 6; Serial No. 261,573; published June 5, 1928.
Candy. Reichardt Cocoa & Chocolate Co. Inc. 248,903; Nov. 6; Serial No. 269,366; published Aug. 21, 1928.
Canned bologna. A. Ohlendorf. 249,138; Nov. 6; Serial No. 229,641; published Aug. 21, 1928.
Canned food. Hugo Strauss Packing Co. 249,059; Nov. 6; Serial No. 257,418; published Aug. 21, 1928.
Canned fruits. Armsby Preserving Co. 71,250–2; renewed Nov. 10, 1928.
Canned fruits and vegetables. David Hunt and Company. 248,936; Nov. 6; Serial No. 261,008; published Aug. 21, 1928.
Canned fruits and vegetables. Pacific Coast Canners, Inc. 249,132; Nov. 6; Serial No. 243,279; published Aug. 28, 1928.
Canned fruits, vegetables, and fish. Schwabacher Bros. & Co. 249,168; Nov. 6; Serial No. 269,300; published Aug. 28, 1928.
Canned pineapple. Hawaiian Pineapple Company. 248,974; Nov. 6; Serial No. 266,992; published Aug. 21, 1928.
Canned vegetables. Nielsen Packing Company. 249,033; Nov. 6; Serial No. 266,475; published Aug. 21, 1928.
Cereal breakfast food. H. Rosenberg. 249,062; Nov. 6; Serial No. 256,746; published Aug. 28, 1928.
Cheese. Societe Anomyne des Fromageries Ch. Gervais. 249,123–4; Nov. 6; Serial Nos. 253,712–13; published Aug. 28, 1928.
Chocolates, candies, and bonbonas. I. W. E. De Wellea, Inc. 249,180; Nov. 6; Serial No. 268,682; published Aug. 21, 1928.
Cocoa, Sweetened skim-milk. B. G. Earl. 249,131; Nov. 6; Serial No. 244,349; published Aug. 21, 1928.
Coffee. Doughnut Machine Corporation. 249,162; Nov. 6; Serial No. 269,829; published Aug. 28, 1928.
Coffee. Federal Tea Company. 248,958; Nov. 6; Serial No. 265,722; published Aug. 7, 1928.
Coffee and chicory compound. Great Atlantic & Pacific Tea Company. 248,934; Nov. 6; Serial No. 261,112; published Aug. 21, 1928.
Coffee, Green. J. Aron & Company. 248,901–2; Nov. 6; Serial Nos. 269,384–5; published Aug. 21, 1928.
Coffee, Roasted. Lefore Grocery Co. 249,210; Nov. 6.
Compound, Sweetening. Knako Products Company. 248,939; Nov. 6; Serial No. 263,090; published Aug. 21, 1928.
Confection, Special prune. Mrs. J. Gabrielsen. 248,966; Nov. 6; Serial No. 268,366; published Aug. 28, 1928.

Eggs and butter. Crompond Farm, Inc. 248,997; Nov. 6; Serial No. 265,831; published Aug. 21, 1928.
Extract, Vanilla. Hallock-Denten Co. 249,135; Nov. 6; Serial No. 239,516; published Aug. 21, 1928.
Feed, Stock. River Products Co. 249,119; Nov. 6; Serial No. 267,510; published Aug. 28, 1928.
Feeds. F. S. Wertz & Son. 249,187; Nov. 6; Serial No. 268,722; published Aug. 28, 1928.
Flavor, Aromatic baking. James Vernor Company. 249,209; Nov. 6.
Flavoring, sauce à la bercy, etc., Sweet sauterne. Italian Vineyard Co. 249,218; Nov. 6.
Flour, Prepared. Flako Products Corporation. 249,013; Nov. 6; Serial No. 269,018; published Aug. 21, 1928.
Flour, Wheat. City Mills Company. 249,030; Nov. 6; Serial No. 268,847; published Aug. 21, 1928.
Flour, Wheat. Glosemeyer Flour Co. 249,125; Nov. 6; Serial No. 253,588; published Nov. 1, 1927.
Flour, Whole-wheat. Southwestern Milling Company. 249,002; Nov. 6; Serial No. 267,088; published Aug. 21, 1928.
Fruits, Fresh citrus. C. O. Banks. 249,158; Nov. 6; Serial No. 269,079; published Aug. 21, 1928.
Fruits, Fresh deciduous. G. H. Anderson Estate. 249,122; Nov. 6; Serial No. 253,930; published Aug. 28, 1928.
Fruits, Fresh deciduous. C. Glaze. 248,970; Nov. 6; Serial No. 268,275; published Aug. 21, 1928.
Fruits, Fresh deciduous. Parlier Fruit Growers Association. 249,011; Nov. 6; Serial No. 269,055; published Aug. 21, 1928.
Grapefruit, Crystallized. E. B. Semmes. 249,012; Nov. 6; Serial No. 269,039; published Aug. 21, 1928.
Grapefruit, Fresh. Atwood Grape Fruit Company. 248,940; Nov. 6; Serial No. 262,787; published July 3, 1928.
Grapefruit, Fresh. J. W. Reed. 249,156; Nov. 6; Serial No. 269,152; published Aug. 21, 1928.
Gravy. W. F. Lindorff. 248,923; Nov. 6; Serial No. 261,968; published Aug. 21, 1928.
Ice cream. Western Dairy Products Co. 249,127; Nov. 6; Serial No. 252,298; published Aug. 28, 1928.
Ice cream, cakes, bread, cookies, etc. A. C. Schilling. 249,203; Nov. 6.
Ice-cream cones. Oliver Twist Wafer Co. Inc. 249,073; Nov. 6; Serial No. 267,384; published Aug. 21, 1928.
Jelly, Dry. Ad. Seidel & Sons. 249,155; Nov. 6; Serial No. 269,156; published Aug. 21, 1928.
Malt extract. Milwaukee Delicatessen, Inc. 249,200; Nov. 6.
Melons, Fresh. Barker-Miller Distributing Company. 248,975; Nov. 6; Serial No. 266,968; published Aug. 28, 1928.
Milk, Evaporated. Universal Milk Company. 249,120; Nov. 6; Serial No. 267,471; published Aug. 21, 1928.
Oats. Norris Grain Company. 249,009; Nov. 6; Serial No. 253,862; published Aug. 28, 1928.
Oranges. Duarte Foothill Citrus Association. 249,063; Nov. 6; Serial No. 256,457; published Aug. 28, 1928.
Oranges and grapefruit. Citrus Fruit Association of Ontario. 249,130; Nov. 6; Serial No. 245,140; published Aug. 28, 1928.
Peanuts, salted pecans, peanut butter, salad dressing, etc., Salted. Bayle Food Products Co. 249,214; Nov. 6.
Pickles. J. Weller Company. 249,152; Nov. 6; Serial No. 269,164; published Aug. 21, 1928.
Pop-corn confections. O. L. Hawkins. 248,935; Nov. 6; Serial No. 261,191; published Aug. 21, 1928.
Rabbits alive, dressed, and for food purposes. United Rabbitries Marketing Corp. 249,107; Nov. 6; Serial No. 267,315; published Aug. 28, 1928.
Rolls, sandwich rolls, weiners, etc., Finger. Deco Refreshments Inc. 249,172; Nov. 6; Serial No. 260,811; published Aug. 21, 1928.
Sausages. Italian Sausage Manufacturing Co. 249,160; Nov. 6; Serial No. 269,064; published Aug. 21, 1928.
Seasoning for meats or other foods. A. C. Legg Packing Company. 249,173; Nov. 6; Serial No. 260,738; published Aug. 21, 1928.
Syrup and pretzels, Malt. Excelsior Brewery Inc. 249,118; Nov. 6; Serial No. 267,544; published Aug. 21, 1928.
Syrup, Malt. Home Extract Company. 249,195; Nov. 6; Serial No. 268,609; published Aug. 21, 1928.
Syrup, Malt. A. M. Raley. 249,092; Nov. 6; Serial No. 268,511; published Aug. 21, 1928.
Taffy, Salt-water. Atlantic City Candy Company. 73,102; renewed Mar. 16, 1929.
Tea, Paraguayan. E. MacKinnon & Coelho. 249,052; Nov. 6; Serial No. 266,254; published Aug. 21, 1928.
Vegetables, Fresh. Richman & Samuels Inc. 249,143; Nov. 6; Serial No. 269,257; published Aug. 21, 1928.
Wheat breakfast food. Cream of Wheat Company. 248,963; Nov. 6; Serial No. 268,427; published Aug. 21, 1928.

CLASS 48.

Malt beverages. West End Brewing Co. 249,079; Nov. 6; Serial No. 267,170; published Aug. 28, 1928.

CLASS 49.

Whisky, Pure malt Scotch. G. S. Grant. 72,081; renewed Dec. 29, 1928.

# ALPHABETICAL LIST OF LABELS.

Beech-Nut Brand Chewing Gum Peppermint. For Chewing Gum. Beech-Nut Packing Company. 34,898–9; Nov. 6.
Beech-Nut Peppermint Candy Coated Gum. Beechies. For Chewing Gum. Beech-Nut Packing Company. 34,900; Nov. 6.
Buttercup. For Butter. Sutherland Paper Company. 34,919; Nov. 6.
Chicos. For Salted Peanuts. Curtiss Candy Company. 34,902; Nov. 6.
Csay. For Liquid Preparation for Excessive Perspiration. F. H. Poetz. 34,905; Nov. 6.
Ferndale. For Butter. Sutherland Paper Company. 34,917; Nov. 6.
Flit Kills Flies Mosquitoes Moths Bed Bugs Roaches Ants. For Insecticide. Stanco Incorporated. 34,916; Nov. 6.
Fuly-Rype. For Canned Pears. Eugene Fruit Growers Association. 34,903; Nov. 6.
Grizzly Giant. For Oranges. San Dimas Orange Growers Association. 34,909; Nov. 6.
Harmony. For Oranges. San Dimas Orange Growers Association. 34,910; Nov. 6.
Hof-Brand. For Malt Syrup. Val Blatz Brewing Co. 34,920; Nov. 6.
Our Emblem. For Oranges. San Dimas Orange Growers Association. 34,911; Nov. 6.
Pet. For Oranges. San Dimas Orange Growers Association. 34,912; Nov. 6.
Porter Ever Fresh Egg Macaroni Products. For Macaroni Products. Porter-Scarpelli Macaroni Company. 34,906; Nov. 6.
Reichardt's Tulip Chest Chocolates. For Candy. Reichardt Cocoa & Chocolate Co. Inc. 34,907; Nov. 6.
Richland. For Butter. Sutherland Paper Company. 34,918; Nov. 6.
Rosita. For Oranges. Canoga Citrus Association. 34,901; Nov. 6.
Sun-Bel. For Prunes. Independent Growers Packing Company. 34,904; Nov. 6.
Teenie Weenie Toffies. For Candy. Reid, Murdoch & Co. 34,908; Nov. 6.
The Liquid Solvit-All Sanitary Solvent. For a Liquid Sanitary Solvent. Solvit-All Corporation. 34,915; Nov. 6.
Top-Off Mints. For Candy. Frank G. Shattuck Company. 34,914; Nov. 6.
White Horse. For Grapefruit. San Dimas Orange Growers Association. 34,913; Nov. 6.

# ALPHABETICAL LIST OF PRINTS.

A Valuable Booklet for Busy Doctors. For Wheat Breakfast Food. Cream of Wheat Co. 11,314; Nov. 6.
An Authoritative Review of the Latest Findings in Nutrition. For Wheat Breakfast Food. Cream of Wheat Co. 11,313; Nov. 6.
Beech-Nut Butter Scotch. For Candy. Beech-Nut Packing Company. 11,308; Nov. 6.
Beech-Nut Fruit Drops. For Candy. Beech-Nut Packing Company. 11,309; Nov. 6.
Beech-Nut Lemon Fruit Drops. For Candy. Beech-Nut Packing Company. 11,310; Nov. 6.
Beech-Nut Lime Fruit Drops. For Candy. Beech-Nut Packing Company. 11,312; Nov. 6.
Beech-Nut Orange Fruit Drops. For Candy. Beech-Nut Packing Company. 11,311; Nov. 6.
Feel Their Warmth. For Blankets. Nashua Manufacturing Company. 11,321; Nov. 6.
Harlequin. For Printing Inks. Charles Eneu Johnson and Company. 11,318; Nov. 6.
Printers' Devils. For Printing Inks. Charles Eneu Johnson and Company. 11,320; Nov. 6.
The Elephant. For Printing Inks. Charles Eneu Johnson and Company. 11,317; Nov. 6.
The Flamingos. For Printing Inks. Charles Eneu Johnson and Company. 11,319; Nov. 6.
What, Oh, What a Flavor there is to Heinz Cooked Spaghetti. For Cooked Spaghetti. H. J. Heinz Company. 11,315–6; Nov. 6.
When Y-A-W-N-I-N-G Time Comes. For Blankets. Nashua Manufacturing Company. 11,322; Nov. 6.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Babitch, Abraham M., assignor.)
A C Spark Plug Company. (See Eshbaugh, Jesse E., assignor.)
A C Spark Plug Company. (See Pohrt, Henry O., assignor.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Abbott Laboratories. (See Volwiler, Ernest H., assignor.)
Abraham, Leonard G., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Selective echo suppressor. 1,690,153; Nov. 6.
Ackermann, Gottlieb, Esslingen, assignor to the firm: Brann & Wolff, Berlin, Germany. Safety valve. 1,690,097; Nov. 6.
Adkins, Elba O., assignor of one-half to The Huntington Auto Supply Company, Huntington, W. Va. Repair stand for engines, transmissions, and the like. 1,690,660; Nov. 6.
Adolfsson, Anders E., Korsnas, Sweden. Apparatus for lifting and tapping butts. 1,690,519; Nov. 6.
Agfa Ansco Corporation. (See Lowkrantz, Gunne, assignor.)
Ainsworth, Chester D., Wollaston, assignor to Condit Electrical Manufacturing Corporation, South Boston, Mass. Electric switch. 1,690,906; Nov. 6.
Air Reduction Company. (See Crowe, J. J., and Begerow, assignors.)
Akron Lamp Company, The. (See Hoff, Chester A., assignor.)
Aktiengesellschaft Seeriet. (See Egli, Huldreich, assignor.)
Albanese, Giuseppe S. (See Sacco Albanese, Giuseppe.)
Alden Manufacturing Company. (See Alden, Milton, assignor.)
Alden, Milton, assignor to Alden Manufacturing Company, Springfield, Mass. Transformer. 1,690,154; Nov. 6.
Allen, Herbert W., Fresno, Calif. Carburetor. 1,690,902; Nov. 6.
Allen, Robert C., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Safety valve. 1,690,093; Nov. 6.
Alox Chemical Corporation. (See Burwell, Arthur W., assignor.)
Altbuch, Morris, Brooklyn, N. Y. Ornamental form and making same. 1,690,764; Nov. 6.
Amdursky, Samuel S., Rochester, N. Y. Apparatus for measuring the moisture content of materials. 1,690,155; Nov. 6.
American Bosch Magneto Corporation. (See Curtis, Leslie F., assignor.)
American Can Company. (See Breckenridge, Karl S., assignor.)
American Can Company. (See Stewart, James A., assignor.)
American Chicle Company, The. (See Becker, Philip L., assignor.)
American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
American Encaustic Tiling Company, Ltd. (See Lillibridge, Harry D., assignor.)
American Hoist & Derrick Co. (See Sederholm, John E., assignor.)
American Laundry Machinery Company, The. (See Pierce, Harry, assignor.)
American Manganese Steel Company. (See Ratkowski, Thomas, assignor.)
American Manganese Steel Company. (See Rorabeck, Claude, assignor.)
American Metallurgical Corporation. (See Hanson, Albert J., assignor.)
American Multigraph Company, The. (See Chisholm, Clifton, assignor.)
American Multigraph Company, The. (See Colquhoun, Peter M., assignor.)
American Narrow Fabric Company. (See Austin, Arthur O., assignor.)
American Oil Company. (See Wakefield, Arthur T., assignor.)
American Ore Reclamation Company. (See Klugh, Bethune G., assignor.)
American Ornamental Bottle Corporation. (See Mas, George N., assignor.)
American Radiator Company. (See Downe, Edward R., assignor.)
American Range Corporation. (See Johnson, A. J., and Moriarty, assignors.)
American Road Machinery Company. (See Williamson, Roy C., assignor.)
American Telephone and Telegraph Company. (See Abraham, Leonard G., assignor.)
American Telephone and Telegraph Company. (See Holden, William H. T., assignor.)
American Telephone and Telegraph Company. (See Silent, Harold C., assignor.)
American Welding and Manufacturing Company, The. (See Klaus, F. R., and Meyer, assignors.)
Anderson, Abner L. (See Heston, L. R., and Anderson.)
Anderson, Alfred E., and C. A. Forsberg, Rockford, Ill. Sofa bed. 1,690,963; Nov. 6.
Anderson, Frank E., and F. H. Thorpe, assignors to The Columbus Sucker Rod Company, Columbus, Ohio. Making sucker rods. 1,690,612; Nov. 6.
Anderson, Irving, Bird City, Kans. Can opener. 1,690,319; Nov. 6.
Anderson, Kenneth M. (See Lane, F. W., and Anderson.)
Anderson, Olaf A., Hamilton, Ohio. Dial. 1,690,806; Nov. 6.
Antal, John, Brooklyn, N. Y. Window. 1,690,807; Nov. 6.
Antoni, Ugo, Viareggio, Italy. Construction of flexible aeroplane wings with variable profile. 1,690,765; Nov. 6.
Appelbaum, Isaac, Brooklyn, N. Y. Cloth-cutting machine. 1,690,808; Nov. 6.
Appleby, William H., Baltimore, Md., assignor to Bethlehem Steel Company, Bethlehem, Pa. Steam hot plate. Re17,123; Nov. 6.
Arcless Contact Company, The. (See McCabe, I. E., and Armstrong, assignors.)
Argy Pre-Heating Corporation. (See Corcoran, John C., assignor.)
Armstrong, Raymond W. (See McCabe, I. E., and Armstrong.)
Arnold, Herman A. (See Arnold, John L. and H. A.)
Arnold, John L. and H. A., Canton, Ohio. Detachable sign for automobiles. 1,690,156; Nov. 6.
Arvey Manufacturing Co., The. (See Bushnell, Oscar P., assignor.)
Aske, Irving E., Duluth, Minn. Fuel heater. 1,690,320; Nov. 6.
Astle, William, Brooklyn, N. Y., assignor to Automatic Straight Air Brake Company, Wilmington, Del. Vent valve for air-brake apparatus. 1,690,766; Nov. 6.
Atkins, E. C., & Company. (See St. Clair, O., and Watson, assignors.)
Atlantic Refining Company, The. (See Delbridge, T. G., and Dure, assignors.)
Atlantic Service Company. (See Laemmel, Charles A., assignor.)
Atmospheric Nitrogen Corporation. (See Kniskern, Walter H., assignor.)
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Disconnecting switch for transmission lines. 1,690,357; Nov. 6.
Austin, Arthur O., Barberton, Ohio, assignor to American Narrow Fabric Company, Worcester, Mass. Insulator pin. 1,690 392; Nov. 6.
Austin, Forrest J., Hiawatha, Kans. Low-air-pressure detector and signal inner tube. 1,690,613; Nov. 6.
Auto Mechanical Products Company. (See Julyan, Fred G., assignor.)
Automatic Straight Air Brake Company. (See Astle, William, assignor.)
B. B. T. Corporation of America. (See Jackson, Edward W., assignor.)
Babitch, Abraham M., assignor to A C Spark Plug Company, Flint, Mich. Filter. 1,690,358; Nov. 6.
Bagley, James, assignor to A. L. Pfeiffer, Bedford, Mass. Pile wire. 1,690,320; Nov. 6.
Bailey, Rufus W., Kansas City, Mo. Door control for automotive busses. 1,690,265; Nov. 6.
Baine, Daniel E., Stockton, Calif. Measuring device. 1,690,919; Nov. 6.
Baker, Lin E., Chicago, Ill. Fishing apparatus. 1,690,440; Nov. 6.
Baker-Raulang Company, The. (See Hutzley, Amiel G., assignor.)
Baker, Roy S., Pomona, Calif. Gas engine. 1,690,321; Nov. 6.
Baker, Russell W., Anderson, Ind., assignor to Delco-Remy Corporation, Dayton, Ohio. Armature-assembly apparatus. 1,690,322; Nov. 6
Balaskas, Thomas K., Lexington, Nebr. Arch support. 1,690,064; Nov. 6.
Barbarite Corporation. (See Barrett, Harold G., assignor.)

Barker, Benjamin F., El Paso, Tex., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,690,848; Nov. 6.

Barkley, William B., Newton Center, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe having concealed eyeleting. 1,690,188; Nov. 6.

Barna, Joseph W., and N. A. Thomas, Chicago, Ill. Eyeleting machine. 1,690,521; Nov. 6.

Barnard, Therides V., Schaller, Iowa, and R., L., and L. Mackey, Ipswich, S. Dak. Power-driven corn harvester. 1,690,809; Nov. 6.

Barnhart, John W., Grand Rapids, assignor, by mesne assignments, to Kelvinator Corporation, Detroit, Mich. Cold-air deflector. 1,690,323; Nov. 6.

Barrett, Harold G., Wilmette, assignor to Barbarite Corporation, Chicago, Ill. Shaft for golf clubs and the like. 1,690,266; Nov. 6.

Barrows, Robert Y., Inc. (See Barrows, R. Y., and Curtis, assignors.)

Barrows, Robert Y., Rutherford, N. J., and H. P. Curtis, assignors to Robert Y. Barrows, Inc., New York, N. Y. Phonograph. 1,690,267; Nov. 6.

Barrymore Concrete Mixer Corporation. (See Barrymore, O. C., and Daddisman, assignors.)

Barrymore, Orson C., and R. A. Daddisman, assignors to Barrymore Concrete Mixer Corporation, San Francisco, Calif. Concrete-mixer water control. 1,690,849; Nov. 6.

Barth, Hans, Dresden, Germany. Reverse-plating device for circular-knitting machines. 1,690,268; Nov. 6.

Bartholdi, Ray E. (See Collins, David R., assignor.)

Bartlett Hayward Company, The. (See Meyer, Henry C. A., assignor.)

Bartley, Harold F., New York, N. Y. Animated toy. 1,690,811; Nov. 6.

Bassick Manufacturing Company, The. (See Carr, Moses F., assignor.)

Bassick Manufacturing Company, The. (See Davis, Ernest W., assignor.)

Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)

Bassick Manufacturing Company, The. (See Upham, Preston, assignor.)

Bauman, Frank, Honesdale, Pa. Silk cleaner. 1,690,522; Nov. 6.

Bausch and Lomb Optical Company. (See Welsh, James W., assignor.)

Baxter, William M., assignor, by mesne assignments, to The Wayne Home Equipment Company, Fort Wayne, Ind. Controlling the flow of all fluids in an oil-burner apparatus. 1,690,329; Nov. 6.

Bayles, Lewis C., and F. M. Slater, Easton, Pa., assignors to Ingersoll-Rand Company, Jersey City, N. J. Shifting fulcrum valve for rock drills. 1,690,810; Nov. 6.

Beach, George F., assignor to F. J. Ryan & Company, Philadelphia, Pa. Furnace. 1,690,710; Nov. 6.

Beacon Folding Machine Company. (See Ridderstrom, Andrew R., assignor.)

Beacon Steel Furniture Co. (See Rosenthal, Aaron E., assignor.)

Beale, Albert. (See Hele-Shaw, H. S., and Beale.)

Becker, John H., Richmond Hill, assignor to Warp Twisting-In Machine Company, Brooklyn, N. Y. Thread feeder for warp-twisting-in machines. 1,690,157; Nov. 6.

Becker, Philip L., Flushing, assignor to The American Chicle Company, Long Island City, N. Y. Chewing-gum package and making the same. 1,690,098; Nov. 6.

Beers, Louis G., assignor to The New Jersey Wire Cloth Company, Trenton, N. J. Window screen. 1,690,094; Nov. 6.

Begerow, John H. W. (See Crowe, J. J., and Begerow.)

Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Package closure. 1,690,850; Nov. 6.

Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Package and closure therefor. 1,690,851; Nov. 6.

Behrman, Marcus B., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Package and closure therefor. 1,690,852; Nov. 6.

Behrman, Marcus B., assignor to The Lox Seal Corporation, New York, N. Y. Packaging. 1,690,853; Nov. 6.

Bell Telephone Laboratories, Incorporated. (See Curtis, Austen M., assignor.)

Bell Telephone Laboratories, Incorporated. (See Horton, Joseph W., assignor.)

Bell Telephone Laboratories, Incorporated. (See Lamberty, Frederick R., assignor.)

Bell Telephone Laboratories, Incorporated. (See Mougey, Wilbur E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Stokely, Ray L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Toomey, J. F., and Duhnkrack, assignors.)

Bell, William M., Portsmouth, Ohio. Forming closures. 1,690,523; Nov. 6.

Beloit, Harry, San Pedro, assignor to Economy Pump and Oil Tool Company, Los Angeles, Calif. Deep-well pump. 1,690,393; Nov. 6.

Belt, Fred R., Chicago, Ill. Poker-chip set. 1,690,394; Nov. 6.

Bendix Brake Company. (See Thomas, George J., assignor.)

Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Variable condenser. 1,690,095; Nov. 6.

Benning, John P. (See Bertels, Charles E., assignor.)

Benson, Carl V., Lake City, Colo. Spinning toy. Des. 76,768; Nov. 6.

Berger, Samuel I., Newark, N. J. Statuette. Des. 76,769; Nov. 6.

Bergmann, Christian N., Pitsburgh, Pa., E. Z. Taylor, Newark, N. J., and C. Taylor, Hartford Conn., assignors to Bergmann Packaging Machine Company, Pittsburgh, Pa. Cup-depositing mechanism for unit-measuring machines. 1,690,920; Nov. 6.

Bergmann Packaging Machine Company. (See Bergmann, C. N., and Taylor, assignors.)

Berryman, Thomas J., Armagh, Northern Ireland. Selecting mechanism for type-printing telegraphy and other purposes. 1,690,324; Nov. 6.

Bertels, Charles E., Long Beach, Calif., assignor of one-half to J. P. Benning, Trucksville, Pa. File. 1,690,812; Nov. 6.

Berthold, Rudolf G., Berlin-Siemensstadt, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Switching system. 1,690,524; Nov. 6.

Best, Ed, Appleton, and L. R. Vines, Loretto, Tenn., assignors of one-third to J. N. Guthrey, of Tennessee. Cultivator. 1,690,525; Nov. 6.

Bethlehem Foundry & Machine Company. (See Needham, Charles E., assignor.)

Bethlehem Steel Company. (See Appleby, William H., assignor.)

Bettison, Percy R., assignor to Tanners' Products Company, Chicago, Ill. Making felt products. 1,690,854; Nov. 6.

Bilodeau, Henry, Wilkes-Barre, Pa. Individual cake mold. 1,690,526; Nov. 6.

Biren, Simon, Brooklyn, N. Y. Corn and bunion protector. 1,690,395; Nov. 6.

Birkholz, Hans E., assignor to National Air Filter Company, Chicago, Ill. Air filter. 1,690,813; Nov. 6.

Black, Sivalls & Bryson Manufacturing Company. (See Raymond, Gwynne, assignor.)

Bloch, Leon, assignor to The Republic Brass Company, Cleveland, Ohio. Combined mixing and delivery valve for bath fixtures. 1,690,767; Nov. 6.

Block, Leslie W., Webster Groves, Mo. Shingle. 1,690,396; Nov. 6.

Blodgett, Edward C., Kirksville, Mo. Article support. 1,690,711; Nov. 6.

Blumenfeld, Edward G., Brooklyn, N. Y., assignor to La Salle Brass & Bronze Works, Inc. Mirror or similar article. Des. 76,770; Nov. 6.

Bly, Gilford D., Toronto, Ontario, Canada. Bottle-filling device. 1,690,470; Nov. 6.

Bockmühl, Max, and G. Ehrhart, Hochst-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Producing alkylated aliphatic nitriles. 1,690,325; Nov. 6.

Boe, Harry F. (See Hazard, G. E., and Boe.)

Boehland, Paul, Milwaukee, Wis. Christmas-tree ornament. 1,690,397; Nov. 6.

Böhner, Georg. (See Unger, O., and Böhner.)

Bolling, John E., Chicago, and E. Szekely, Evanston, assignors of three-fourths to Drying Systems, Inc., Chicago, Ill., and one-fourth to E. Szekely. Air heater. 1,690,326; Nov. 6.

Bollinger, Charles, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for performing pressing operations. 1,690,398; Nov. 6.

Bond, Samuel C., Holly Oak, Del. Bottling machine. 1,690,527; Nov. 6.

Bonebright, Herbert B., Chinook, Mont. Planter. 1,690,884; Nov. 6.

Bonney-Floyd Company, The. (See Edmunds, Glenn E., assignor.)

Bonnot Company, The. (See Bonnot, Louis C., assignor.)

Bonnot, Louis C., Louisville, assignor to The Bonnot Company, Canton, Ohio. Pulverizing mill. 1,690,712; Nov. 6.

Bontell, Amos C., Pittsfield, Mass. Paper heater. 1,690,661; Nov. 6.

Booth, James S., Detroit, Mich. Charging and distributing device for internal-combustion engines. 1,690,330; Nov. 6.

Booth, William T., Flushing, and A. C. Magrath, New Dorp, assignors to Western Electric Company, Incorporated, New York, N. Y. Testing device. 1,690,269; Nov. 6.

Borg & Beck Company, The. (See Nelson, Gustave C., assignor.)

Bott, Edgar S. (See Funk, A. S., and Bott.)

Bower, Sigmund, assignor of one-half to C. G. Hensley, Brooklyn, N. Y. Hanger. 1,690,614; Nov. 6.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portière rod. Des. 76,771; Nov. 6.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portière rod. Des. 76,772; Nov. 6.

Boye, James H., assignor to James H. Boye Manufacturing Company, Chicago, Ill. Curtain and portière rod. Des. 76,773; Nov. 6.

Boye, James H., Manufacturing Company. (See Boye, James H., assignor.)





Boyle Manufacturing Company. (See Boyle, Willis J., jr., assignor.)

Boyle, Willis J., jr., assignor to Boyle Manufacturing Company, Los Angeles, Calif. Pressure-test apparatus. 1,690,713; Nov. 6.

Boynton, Solon D., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,691,004; Nov. 6.

Boxboard Products Company. (See Kondolf, Mathias R., assignor.)

Bozonier, Eddy. (See Williams, C., and Francois, assignors.)

Brack, Conrad M., Great Bend, Kans. Rotary spiral plow. 1,690,922; Nov. 6.

Braddock, Edward I., deceased, Cleveland, Ohio; R. H. Montgomery, executor. Slip joint. 1,690,714; Nov. 6.

Bradley Washfountain Company. (See Schlesinger, L., and Heine, assignors.)

Brainard, George C. (See Fitch, J. A., and Brainard.)

Branan, Frank. (See Greene, Frederic C., assignor.)

Brann & Wolff. (See Ackermann, Gottlieb, assignor.)

Brayton, Harold M., Dover, N. J., assignor to Secretary of War of the United States of America. Supersensitive fuse for drop bombs. 1,690,331; Nov. 6.

Breckenridge, Karl S., Chicago, Ill., assignor to American Can Company, New York, N. Y. Can. 1,690,441; Nov. 6.

Breed, Charles W., Western Springs, Ill. Splice bar. 1,690,471; Nov. 6.

Brenessel, Charles, Los Angeles, Calif. Collar attachment. 1,690,715; Nov. 6.

Breton, Paul, Bellevue, France. Cleaning means. 1,690,472; Nov. 6.

Breyer, Frank G., Palmerton, and C. W. Farber, Bowmanstown, Pa., assignors to The New Jersey Zinc Company, New York, N. Y. Lithopone. 1,690,099; Nov. 6.

Brinton, Willard C., assignor to Terminal Engineering Company, Inc., New York, N. Y. Steering gear. 1,691,020; Nov. 6.

Brisbois, Nicholas M., Stockholm, assignor to National Paper Products Company, San Francisco, Calif. Plant protector. 1,690,716; Nov. 6.

Broadwood, John, & Sons Limited. (See Collen, Robert H., assignor.)

Brown, Charles R., Kansas City, Mo., and H. E. Nelson, Keokuk, Iowa. Manufacturing corn sugar. 1,690,359; Nov. 6.

Brown, Charles R., Kansas City, Mo., and H. E. Nelson, Keokuk, Iowa. Manufacturing starch and glucose. 1,690,360; Nov. 6.

Brown Company. (See Burke, Edmund, assignor.)

Brown, Cuthbert J. (See Wilson, C. H., and Brown.)

Brown, James H., Baltimore, Md. Slide holder. 1,690,905; Nov. 6.

Brown, Lloyd, Des Moines, Iowa. Therapeutic lamp. 1,690,717; Nov. 6.

Brown, Paul, Herndon, Kans. Operating mechanism for circuit controllers. 1,690,473; Nov. 6.

Browning, Clarence P. (See Foertsch, Charles W., assignor.)

Bruce, Josephine B. (See Bruce, Leo I., assignor.)

Bruce, Leo I., Holliston, assignor to J. B. Bruce, Gardner, Mass. Beam form. 1,690,361; Nov. 6.

Bruneau, Hudger, Woonsocket, assignor to Rhode Island Warp Stop Equipment Company, Pawtucket, R. I. Warp stop motion for looms. 1,690,921; Nov. 6.

Brunswick-Balke-Collender Company, The. (See Kennedy, Robert E., assignor.)

Buckham, George T. (See Dawson, A. T., Buckham, and White.)

Bull, George E., Belle Vernon, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Machine for forming fabric structures. 1,690,100; Nov. 6.

Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Power chucking device. 1,690,567; Nov. 6.

Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Turret head for machine tools. 1,690,568; Nov. 6.

Bullard Machine Tool Company, The. (See Bullard Edward P., jr., assignor.)

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 76,774; Nov. 6.

Burgess, L. P., et al., trustees. (See Burgess, Lysle P., assignor.)

Burgess, Lysle P., Los Angeles, Calif., assignor, by mesne assignments, to L. P. Burgess, D. Daniels, and J. O. Clutter, trustees. Aligning pump liners within pump shells. 1,690,399; Nov. 6.

Burke, Edmund, assignor to Brown Company, Portland, Me. Fiber insulator and making the same. 1,691,005; Nov. 6.

Burke, Wilbur B., East Cleveland, Ohio. Mechanism for vulcanizing tires. 1,690,615; Nov. 6.

Burns, Frank B., Chicago, Ill. Soldering tool. 1,690,101; Nov. 6.

Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 76,775; Nov. 6.

Burroughs Adding Machine Company. (See Horton, Allen A., assignor.)

Burwell, Arthur W., Chagrin Falls, Ohio, assignor to Alox Chemical Corporation, New York, N. Y. Oxidation of hydrocarbons. 1,690,768; Nov. 6.

Burwell, Arthur W., Chagin Falls, Ohio, assignor to Alox Chemical Corporation, New York, N. Y. Making organic acids from petroleum hydrocarbons and product. 1,690,769; Nov. 6.

Bushnell, Charles S., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,691,006; Nov. 6.

Bushnell, Oscar P., Belleville, N. J., assignor, by mesne assignments, to The Arvey Manufacturing Co., Olean, N. Y. Apparatus and method for making fibrous boxes. 1,690,528; Nov. 6.

Butler, Chancey W., and W. A. Sloper, assignors of one-third to C. O. Sloper, Independence, Oreg. Pump. 1,690,923; Nov. 6.

Butterfield, Fred, & Co. Inc. (See Currier, K. G., and Heinrich, assignors.)

C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Meyerhuber, assignors.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)

Cafferata, Louis W., Newark-on-Trent, England. Making reenforced blocks. 1,690,474; Nov. 6.

Calkins, Claude C., Spokane, Wash. Seed-treating machine. 1,690,718; Nov. 6.

Campbell, John B., Salem, N. J., assignor, by mesne assignments, to Carthage Mills Incorporated, Cincinnati, Ohio. Machine for printing rugs. 1,691,021; Nov. 6.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Film-treating apparatus. 1,690,616; Nov. 6.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Making duplicate negatives. 1,690,617; Nov. 6.

Carmer, Clark H., Williamsville, N. Y. Telephone-receiver support. 1,690,475; Nov. 6.

Carney, Frank V. (See Currie, Otis C., assignor.)

Carpenter, Warren W., Queens Village, assignor to Western Electric Company, Incorporated, New York, N. Y. Restricted-service telephone-exchange system. 1,690,214; Nov. 6.

Carr Fastener Company. (See Boynton, Solon D., assignor.)

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr Fastener Company. (See Johnson, Alfred F., assignor.)

Carr Fastener Company. (See Johnson Gustav, assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,690,662; Nov. 6.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,690,663; Nov. 6.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,690,664; Nov. 6.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,690,665; Nov. 6.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Snap fastener. 1,690,666; Nov. 6.

Carr, Moses F., Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,690,400; Nov. 6.

Carssow, Felix H., Vallejo, Calif. Optical instrument. 1,690,270; Nov. 6.

Carter, Clarence W., Minneapolis, Minn. Grain separator. 1,690,595; Nov. 6.

Carter-Mayhew Manufacturing Co. (See Varusky, John J., assignor.)

Carthage Mills Incorporated. (See Campbell, John B., assignor.)

Case, Francis M., Cleveland, assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,690,401; Nov. 6.

Cassidy, Willis W., Salt Lake City, Utah. Halloween candy. Des. 76,776; Nov. 6.

Celanese Corporation of America. (See Ellis, G. H., and Goldthorpe, assignors.)

Central Tractor Company, The. (See Stedman, Charles C., assignor.)

Chadeloid Chemical Company. (See Ellis, C., and Stewart, assignors.)

Chaffee, Emory L., Belmont, and E. S. Purington, Boston, assignors to J. H. Hammond, jr., Gloucester, Mass. Secret radiosignaling. 1,690,719; Nov. 6.

Champion Hardware Company, The. (See Hasenflue, Nelson T., assignor.)

Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley head. 1,690,618; Nov. 6.

Chaney, George, Doniphan, Nebr. Windshield for grain harvesters. 1,690,906; Nov. 6.

Channing, R. H., jr., agent. (See Phelan, R. E., and Lowe, assignors.)

Cheney, Bryon M., Chicago, Ill. Rail joint. 1,690,885; Nov. 6.

Cheney, Moses E., assignor to National Gauge & Equipment Company, La Crosse, Wis. Liquid-level gauge. 1,690,215; Nov. 6.

Chicago Pneumatic Tool Company. (See Stevens, Edward W., assignor.)
Chicago Solder Company. (See Erich, John P., assignor.)
China, Frederick J. E., Esher, England. Minute disintegration of substances. 1,690,667; Nov. 6.
China, Frederick J. E., Esher, England. Disintegrating device. 1,690,668; Nov. 6.
China, Frederick J. E., Esher, England. Method and apparatus for producing suspensions. 1,690,669; Nov. 6.
Chisholm, Clifton, assignor to The American Multigraph Company, Cleveland, Ohio. Embossing and printing machine. 1,690,442; Nov. 6.
Chocolat Tobler Holding Co. Aktiengesellschaft. (See Schäffer, Werner, assignor.)
Christensen, Niels A., Cleveland, Ohio. Brake. 1,690,855; Nov. 6.
Christian, James L., Denver, Colo. Track drill. 1,690,102; Nov. 6.
Christiansen, Ejnar, Birmingham, England. Appliance for delivering granular material in measured quantities by volume. 1,690,476; Nov. 6.
Christy, Bayard H., Sewickley, assignor to Williams Welding & Manufacturing Company, Charleroi, Pa. Door for furnaces. 1,690,619; Nov. 6.
Clark, Alfred B., and A. C. Koester, London, England. Combined wristlet, note pad and pencil holder. Des. 76,777; Nov. 6.
Clark, Emerson L., Pittsburgh, Pa., assignor to Syntron Company. Electric switch. 1,690,103; Nov. 6.
Clark, Robert J., Whitmans, W. Va. Gate-operating means. 1,690,924; Nov. 6.
Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose esters containing unsaturated organic acid groups. 1,690,620; Nov. 6.
Clarke, Hans T., and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Cellulose esters containing nitro groups and halogen-substituted acyl groups. 1,690,621; Nov. 6.
Clement, Lewis M., Yonkers, assignor to Western Electric Company, Incorporated, New York, N. Y. Protecting electrical apparatus. 1,690,271; Nov. 6.
Clements, Frank O., Dayton, Ohio, assignor to General Motors Research Corporation, Dayton, Ohio. Crankcase ventilation system for internal-combustion engines. 1,690,332; Nov. 6.
Clementson, Nils E., Chicago, Ill. Mortar shield. 1,690,856; Nov. 6.
Clutter, J. O., et al., trustees. (See Burgess, Lysle P., assignor.)
Cobb, Winfred L., Jefferson, Oreg. Automatic door for mail boxes. 1,690,967; Nov. 6.
Colburn, Horace A. (See McDevitt, F. E., and Colburn.)
Cole, Joseph J., Faber, Va. Transmission. 1,690,968; Nov. 6.
Collen, Robert H., East Ham, assignor of one-half to John Broadwood & Sons Limited, London, England. Pianoforte. 1,690,925; Nov. 6.
Collins, David R., Minneapolis, Minn., assignor of one-half to R. E. Bartholdi, Chicago, Ill. Display device. 1,690,477; Nov. 6.
Colquhoun, Peter M., assignor to The American Multigraph Company, Cleveland, Ohio. Controlling device for the keys of keyboard machines. 1,690,443; Nov. 6.
Columbus Sucker Rod Company, The. (See Anderson, F. E., and Thorpe, assignors.)
Combes, Maurice. (See Continsouza, V., and Combes.)
Commercial Clearing Corporation, The. (See Macy, Barnett W., assignor.)
Compton, John. (See Ward, O., and Compton.)
Concrete Elevator Company. (See Westling, Andrew, assignor.)
Condit Electrical Manufacturing Corporation. (See Ainsworth, Chester D., assignor.)
Conn, Joseph C., Boonton, N. J. Mechanical movement. 1,690,096; Nov. 6.
Conner Crouse Corporation. (See Crouse, G. B., and Jatlow, assignors.)
Continental Can Company. (See O'Neil, James H., assignor.)
Continsouza, Victor, and M. Combes, Paris, France. Cinematograph apparatus with continuously-fed film. 1,690,770; Nov. 6.
Cook, Otto W., Rochester, N. Y. Composition for joining strips of motion-picture films. 1,690,622; Nov. 6.
Cooper, Henry B., Columbus, Ohio. Accelerator for motor vehicles. 1,690,333; Nov. 6.
Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Furnace door and pusher interlock. 1,690,272; Nov. 6.
Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Electric furnace. 1,690,273; Nov. 6.
Corbin, Henry P., Moline, Ill., assignor, by mesne assignments, to Moline Implement Company. Quick-detachable disk bearing. 1,690,530; Nov. 6.
Corcoran, John C., Worcester, Mass., assignor, by mesne assignments, to Argy Pre-Heating Corporation, Niagara Falls, N. Y. Process and apparatus for making paper. 1,690,402; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,690,274; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,690,275; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,690,276; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Sectional-wall vanity case. 1,690,277; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,690,278; Nov. 6.
Coryell, Charles N., Mamaroneck, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Sectional-wall vanity case. 1,690,403; Nov. 6.
Cosby, Ralph L., Richmond, Va. Safety belt. 1,690,720; Nov. 6.
Craft, Edward B., Hackensack, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for the visual interpretation of speech and music. 1,690,279; Nov. 6.
Craig, Harvey G. (See Powell, Edward R., assignor.)
Crane, Raymond E., Kittanning, Pa. Sanitary fixture. 1,690,478; Nov. 6.
Crombie, Peter A., jr., Thompsonville, Conn. Snow scraper. 1,690,886; Nov. 6.
Cronin, John A., assignor to The D. E. McNicol Pottery Co. of W. Va., Clarksburg, W. Va. Plate or similar article. Des. 76,778; Nov. 6.
Crossan, Jesse R. (See Walter, H. A., and Crossan.)
Crouse, George B., Woodcliff, and J. L. Jatlow, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y. Voltage regulator. 1,691,022; Nov. 6.
Crowe, John J., Westfield, and J. H. W. Begerow, Secaucus, N. J., assignors to Air Reduction Company, Incorporated, New York, N. Y. Torch machine. 1,691,007; Nov. 6.
Crowley, E. Chase. (See Hollinger, Emil F., assignor.)
Crown Willamette Paper Company. (See Duvall, James, assignor.)
Cumming, James G. (See Sullivan, William S., assignor.)
Cummings Corporation. (See Kesel, William P., assignor.)
Currie, Otis C., assignor of forty-nine one-hundredths to F. V. Carney, St. Clair, Mich. Practice golf game. 1,690,158; Nov. 6.
Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 76,779; Nov. 6.
Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 76,780; Nov. 6.
Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 76,781; Nov. 6.
Currier, Kenneth G., East Orange, N. J., and J. Heinrich, assignors to Fred Butterfield & Co. Inc., New York, N. Y. Flocked voile fabric. Des. 76,782; Nov. 6.
Curtis, Austen M., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical testing. 1,690,280; Nov. 6.
Curtis, Harold P. (See Barrows, R. Y., and Curtis.)
Curtis, Leslie F., assignor to American Bosch Magneto Corporation, Springfield, Mass. Oscillator spring. 1,690,569; Nov. 6.
Curtis, Leslie F., assignor to American Bosch Magneto Corporation, Springfield, Mass. Illuminated dial. 1,690,670; Nov. 6.
Curtis, Thomas S., Huntington Park, assignor, by mesne assignments, to Pacific Southwest Trust & Savings Bank, trustee, Los Angeles, Calif. Magnesia product and making the same. 1,690,771; Nov. 6.
Daddisman, Reginald A. (See Barrymore, O. C., and Daddisman.)
Dalbey, Harvey O., sr., Oakland, Calif. Electric broiler. 1,690,570; Nov. 6.
Daniels, D., et al., trustees. (See Burgess, Lysle P., assignor.)
Daudelin, Jean B., Fall River, Mass. Thread guide for shuttles and the like. 1,690,531; Nov. 6.
Daun, Carl L., and P. E. Keller, assignors, by mesne assignments, to Splitdorf Electric Company of Wisconsin, Milwaukee, Wis. Removable stator for electric motors. Re17,128; Nov. 6.
Davis, Ernest W., Oak Park, assignor to The Bassick Manufacturing Company, Chicago, Ill. Coupling. 1,690,216; Nov. 6.
Davis, Jasper N., Denver, Colo. Process and machine for the manufacture of storage-battery plates. 1,690,887; Nov. 6.
Davis, Ray L., et al. (See Powell, Dalton U., assignor.)
Dawe, Arthur S. J., Baltimore, Md. Ink-supplying means for printing presses. 1,690,888; Nov. 6.
Dawson, Arthur T., G. T. Buckham, and J. F. White, Westminster, assignors to Vickers Limited, London, England. Recoil and run-out apparatus for ordnance. 1,690,281; Nov. 6.
Dawson, George H., Boston, assignor to Service Bureau Inc., Cambridge, Mass. Index guide card. 1,690,889; Nov. 6.
Dayton Pump & Manufacturing Company, The. (See Eickmeyer, Earl E., assignor.)
Dayton Scale Company. (See Strachan, Thomas H., assignor.)
De Geynst, Maurice, Forest-Brussels, and I. Lepage, Dieghem, Belgium. Blank cartridge. 1,690,890; Nov. 6.
De La Mare, Thomas, Salt Lake City, Utah. Railroad tie. 1,690,891; Nov. 6.





Delbridge, Thomas G., and H. F. Dure, assignors to The Atlantic Refining Company, Philadelphia, Pa. Treatment of mineral oils. 1,690,772; Nov. 6.
Delco-Remy Corporation. (See Baker, Russell W., assignor.)
Delco-Remy Corporation. (See Elsey, George W., assignor.)
Delco-Remy Corporation. (See Poole, Lora E., assignor.)
Delco-Remy Corporation. (See Wilson, C. E., and Toelle, assignors.)
Dellinger, Martin C. (See Kulp, H. W., and Dellinger.)
De Mattia, Barthold, Clifton, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Making pneumatic tires. 1,690,624; Nov. 6.
De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core. 1,690,623; Nov. 6.
De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Counterbalancing device for vulcanizing molds. 1,690,625; Nov. 6.
Dennison, French E., and W. S. Ireland, assignors to National Refrigeration Corporation, Beloit, Wis. Filter and method of making. 1,690,282; Nov. 6.
Dennison, Robert L., Kansas City, Mo. Differential gearing. 1,690,189; Nov. 6.
Denz, Emil A. (See Denz, E. A., Kelley, and Titus, assignors.)
Denz, Emil A., J. T. Kelley, and J. E. Titus, Chicago, Ill., said Kelley and Titus assignors to said Denz. Frying machine. 1,690,104; Nov. 6.
Dequer, John H., Los Angeles, Calif. Electric therapeutic appliance. 1,690,926; Nov. 6.
Despard, Victor R., Valparaiso, Ind., assignor to McGill Manufacturing Company. Bracket socket. 1,690,283; Nov. 6.
Dettelbach, Samuel, et al. (See Jaworowski, Joseph F., assignor.)
Dettelbach, Samuel E., et al. (See Jaworowski, Joseph F., assignor.)
Devlin, Charles J. L., San Francisco, Calif. Container with cover-lifting auxiliaries. 1,690,479; Nov. 6.
De Willy, Francis, New York, N. Y. Power-supply unit for radio sets. 1,690,814; Nov. 6.
De Witt, Clarence N., Los Angeles, Calif. Folding kite. 1,690,362; Nov. 6.
Diament, John C., Bridgeton, N. J. Can closure. 1,690,892; Nov. 6.
Dickerson, Catherine R., Chicago, Ill. Sanitary hair receiver. 1,690,927; Nov. 6.
Dickey, Edwin C. M., Newark, N. J. Combination bookcase and desk cabinet or similar article. Des. 76,783; Nov. 6.
Dieckmann, Frank C., Cincinnati, Ohio. Combined dresser, wardrobe, bookcase, and rack. 1,690,404; Nov. 6.
Dillon, Stephen V., Tulsa, Okla., assignor to Smith Separator Company. Rod guide and protector. 1,690,721; Nov. 6.
Dillwith, Clyde J. (See Reed, F. P., Strohm, and Dillwith.)
Dinesen, Laurits, Minneapolis, Minn. Teat cup. 1,690,327; Nov. 6.
Dobbelstein, Karoline, administrator. (See Dobbelstein, Otto.)
Dobbelstein, Otto, deceased, by K. Dobbelstein, administrator, Essen-on-the-Ruhr, Germany. Apparatus for drying or smoldering loose material. 1,690,444; Nov. 6.
Dodge, Harry, Danvers, Mass. Treatment of hides and skins. 1,690,969; Nov. 6.
Doherty Research Company. (See Griswold, Robert G., assignor.)
Donaldson, John S., New York, N. Y. Tool and tool retainer. 1,690,571. Nov. 6.
Donaldson, Roy G., Crestline, Ohio. Airship. 1,690,773; Nov. 6.
Donnellan, James S., Los Angeles, Calif. Sanitary butter-slicing machine. 1,690,480. Nov. 6.
Dorner, Hermann, Hanover, Germany. Injection nozzle. 1,690,893; Nov. 6.
Doty, Edward L., Fordham, N. Y. Display-advertisement attachment for cigar lighters. 1,690,284; Nov. 6.
Downe, Edward R., Larchmont, assignor to American Radiator Company, New York, N. Y. Gas boiler. 1,690,105; Nov. 6.
Downs, Helen E., Los Angeles, Calif. Hair clamp. 1,690,106; Nov. 6.
Dowst, Theodore S., Chicago, Ill. Child's wheel toy and making the same. 1,690,217; Nov. 6.
Doyle, James S. (See Hedley, F., and Doyle.)
Drake, Harry F., Milwaukee, Wis. Clothesline clamp. 1,690,815; Nov. 6.
Draper Corporation. (See Northrup, Jonas, assignor.)
Dressler, Charles E., New York, N. Y. Blood-pressure apparatus. 1,690,671; Nov. 6.
Drying Systems, Inc., et al. (See Boiling, J. E., and Szekely, assignors.)
Dubbs, Carbon P., Wilmette, assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for treating oil. 1,690,997; Nov. 6.
Dudley, Colon J., Hamburg, N. Y. Combined basket cover and handle fastening means. 1,690,722; Nov. 6.
Duhnkrack, George H. (See Toomey, J. F., and Duhnkrack.)
Duisberg, Walter, Leverkusen, near Cologne, W. Hentrich, and L. Zeh, Wiesdorf, near Cologne, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuff. 1,690,774; Nov. 6.
Dunlap, Matthew E., Madison, Wis., assignor to the Government and the People of the United States of America. Moisture-indicating instrument for wood. 1,690,672; Nov. 6.
Dunlop Tire and Rubber Corporation of America. (See Norcross, Thomas, assignor.)
Dure, Henry F. (See Delbridge, T. G., and Dure.)
Du Rocher, John H., Rochester, N. Y. Knee pad. 1,690,405; Nov. 6.
Durrant, George, Gorton, England. Apparatus for straightening weft in fabrics. 1,690,334; Nov. 6.
Dützmann, Wilhelm, Neustadt-on-the-Haardt, Germany. Press for treating boards of alkali cellulose and the like. 1,690,894; Nov. 6.
Duvall, James, Camas, Wash., assignor to Crown Willamette Paper Company, San Francisco, Calif. Machine for forming bag bottoms in bag tubes. 1,690,626; Nov. 6.
Dye, Glen M., Minneapolis, Minn. Print-flattening device. 1,691,023; Nov. 6.
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Clarke, H. T., and Malm, assignors.)
Eastman Kodak Company. (See Gray, H. L., and Staud, assignors.)
Eastman Kodak Company. (See Green, Newton B., assignor.)
Eastman Kodak Company. (See Jones, Loyd A., assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Stuber, A., and Underwood, assignors.)
Eastman Kodak Company. (See Trivelli, Adriaan P. H., assignor.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eckert, Wilhelm, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs derived from 1,4,5,8-naphthalene tetracarboxylic acid and aromatic ortho-nitro amines and preparing the same. 1,690,775; Nov. 6.
Economy Fuse and Manufacturing Company. (See Gordon, David D., assignor.)
Economy Pump and Oil Tool Company. (See Beloit, Harry, assignor.)
Economy Screw Corporation. (See McCain, Paul H., assignor.)
Eddison, William B. (See Matthiessen, R. H., and Eddison.)
Edison, Thomas A., Incorporated. (See Edison, Thomas A., assignor.)
Edison, Thomas A., Llewellyn Park, West Orange, assignor to Thomas A. Edison Incorporated, West Orange, N. J. Producing sound-record tablets. 1,690,159; Nov. 6.
Edlich, Carl, Delawanna, N. J., assignor to Max Kaufmann & Company, Inc., New York, N. Y. Textile fabric. Des. 76,784; Nov. 6.
Edmunds, Glenn E., assignor to The Bonney-Floyd Company, Columbus, Ohio. Mine-car bumper. 1,690,532; Nov. 6.
Eframson, Carl F., Minneapolis, Minn. Heater construction. 1,690,533; Nov. 6.
Egan, George F., Jersey City, N. J. Display device. 1,690,218; Nov. 6.
Egan, George F., Jersey City, N. J. Display device. 1,690,219; Nov. 6.
Egleson, James E., East Orange, N. J., assignor to General Chemical Company, New York, N. Y. Treating solid materials with liquid reagents. 1,690,363; Nov. 6.
Egli, Huldreich, assignor to Aktiengesellschaft Seeriet, Arbon, Switzerland. Imparting a linenlike effect to cotton. 1,690,572; Nov. 6.
Ehlert, Emil W., Thorp, Wis. Traction device for vehicles. 1,690,970; Nov. 6.
Ehrhart, Gustav. (See Bockmühl, M., and Ehrhart.)
Eichner, Robert F., assignor to Hickok Manufacturing Company, Rochester, N. Y. Belt buckle. Des. 76,785; Nov. 6.
Eichholz, William. (See Schmidt, J. C., and Eichholz.)
Eickmeyer, Earl E., assignor to The Dayton Pump & Manufacturing Company, Dayton, Ohio. Pump casing. Des. 76,786; Nov. 6.
Electric Furnace Company, The. (See Cope, Frank T., assignor.)
Ellingham, Robert W. (See Fleming, G. W., and Ellingham.)
Ellis, Carleton, Montclair, N. J. Resinous composition containing sulphur and making same. 1,690,160; Nov. 6.
Ellis, Carleton, Montclair, N. J. Sulphur product and making same. 1,690,335; Nov. 6.
Ellis, Carleton, and V. T. Stewart, Montclair, N. J., assignors to Chadeloid Chemical Company, New York, N. Y. Making arsenate of lime. 1,690,627; Nov. 6.
Ellis, Carleton, and V. T. Stewart, Montclair, N. J., assignors to Chadeloid Chemical Company, New York, N. Y. Making arsenates. 1,690,628; Nov. 6.
Ellis, George H., and W. O. Goldthorpe, Spondon, near Derby, England, assignors to Celanese Corporation of America. Dyeing, printing, or stenciling of acetyl cellulose or products made therewith. 1,690,481; Nov. 6.

Ellis-Foster Company. (See Weber, Harry M., assignor.)
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Machine for bending armature conductors. 1,690,336; Nov. 6.
Elston, Frederick R., assignor to B. F. Miller, Philadelphia, Pa. Woven material. 1,690,776; Nov. 6.
Enterprise Manufacturing Company, The. (See Case, Francis M., assignor.)
Eppstein, Meyer M., Charleston, W. Va., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-delivery apparatus. 1,690,777; Nov. 6.
Equipment Specialties Co. (See Hull, George A., assignor.)
Erhard, Gustave F., assignor to The Scranton Lace Company, Scranton, Pa. Textile fabric. Des. 76,787; Nov. 6.
Erich, John P., assignor to Chicago Solder Company, Chicago, Ill. Self-fluxing solder and making same. 1,690,534; Nov. 6.
Erickson, Edward, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lip-turning machine. 1,690,190; Nov. 6.
Erickson, Edward, deceased, by M. E. Erickson, executrix, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-beading machine. 1,690,191; Nov. 6.
Erickson, Mary E., executrix. (See Erickson, Edward.)
Errett, Charles. (See Main, William J., assignor.)
Eshbaugh, Jesse E., assignor to A C Spark Plug Company, Flint, Mich. Heat indicator. 1,690,337; Nov. 6.
Evans, Edwin R., Detroit, Mich. Pump connection. 1,690,338; Nov. 6.
Evans, Walter W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Packing. 1,690,161; Nov. 6.
Everett, Edward A., New York, N. Y. Focusing light sources in projectors. 1,690,364; Nov. 6.
Fabriek Van Chemische Producten. (See Kraus, Emil, assignor.)
Fafnir Bearing Company, The. (See Leister, Fayette, assignor.)
Fagan, Charles D., Sharon, assignor to Sharpsville Boiler Works Co., Sharpsville, Pa. Gasoline-meter casing. Des. 76,788; Nov. 6.
Fahnestock, Archer P., Plandome, N. Y. Ground connecter. 1,690,220; Nov. 6.
Fairchild, Roland J., assignor to National Water Lift Company, Kalamazoo, Mich. Piston pump. 1,690,857; Nov. 6.
Fairfield Engineering Company, The. (See Walker, Henry B., assignor.)
Fallek, Nathan, Los Angeles, Calif. Storage-battery separator element and producing same. 1,690,573; Nov. 6.
Farber, Clayton W. (See Breyer, F. G., and Farber.)
Faurot, Joseph A. (See Wolfe, C. L., and Faurot.)
Fesler, Douglas F., assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricant compressor. 1,690,221; Nov. 6.
Files, Elie R., Baldwyn, Miss. Cotton chopper. 1,690,928; Nov. 6.
Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
Firma Hannovera-Kassen-Gesellschaft m. b. H. (See Schubode, Albert, assignor.)
Fischer, Louis, Philadelphia, Pa., assignor to Wright's Automatic Tobacco Packing Machine Company, Durham, N. C. Packaging machine. 1,690,895; Nov. 6.
Fisher, Charles, Kumardhubi, British India. Cableway. 1,690,929; Nov. 6.
Fitch, Jason A., and G. C. Brainard, assignors to The General Fireproofing Company, Youngstown, Ohio. Edge construction for furniture tops. 1,690,286; Nov. 6.
Fitzpatrick, John L., Bowling Green, Ky. Valve construction. 1,690,162; Nov. 6.
Flagstad, Cornell, assignor of 95 per cent to The Folding Crate and Box Co. and 5 per cent to O. A. Flagstad, Minneapolis, Minn. Crate. 1,690,896; Nov. 6.
Flagstad, Oscar A., et al. (See Flagstad, Cornell, assignor.)
Flarsheim, Edwin S., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Time-switch casing. Des. 76,789; Nov. 6.
Fleischmann, Charles R., Chicago, Ill. Shaving-paper holder. 1,690,858; Nov. 6.
Fleming, George W., and R. W. Ellingham, assignors to Fleming Machine Company, Worcester, Mass. Spark-plug-cleaning device. 1,690,629; Nov. 6.
Fleming, Ivan R., Ainsdale, Lancaster, England. Weather hood of boats. 1,690,285; Nov. 6.
Fleming Machine Company. (See Fleming, G. W., and Ellingham, assignors.)
Fleming, Wells S., Portland, Oreg. Roof drain. 1,690,630; Nov. 6.
Foertsch, Charles W., Brooklyn, assignor of one-half to C. P. Browning, New York, N. Y. Valve gear for internal-combustion engines. 1,690,222; Nov. 6.
Folding Crate and Box Co., The, et al. (See Flagstad, Cornell, assignor.)
Folker, Howard S., Mill Valley, Calif., assignor to National Safety Appliance Company, Reno, Nev. Train-control-restoring apparatus. 1,690,816; Nov. 6.
Fonseca, Edward L., assignor to The Wilcolator Company, Newark, N. J. Pilot-light controller. 1,690,223; Nov. 6.
Forbes, Groves C., Atlanta, Ga. Tripurpose bottle. 1,690,930; Nov. 6.
Ford, Gladys C., Brooklyn, N. Y. Doll. 1,690,778; Nov. 6.
Ford Instrument Company. (See Tanner, Harry L., assignor.)
Forsberg, Charles A. (See Anderson, A. E., and Forsberg.)
Forst, Hattie, Milwaukee, Wis. Camera. 1,690,673; Nov. 6.
Fowler, Fleming B., Baltimore, Md. Ventilator. 1,690,445; Nov. 6.
Fox, Maud C. (See Scott, I. G., and Fox.)
Francis, Joseph N., Woburn, assignor to Standard Coin Wrappers, Inc., Boston, Mass. Method and machine for making paper tubes. 1,690,287; Nov. 6.
Francois, Ferdinand. (See Williams, C., and Francois.)
Frank, Samuel K., et al. (See Powell, Dalton U., assignor.)
Frankle, Milton S., Des Moines, Iowa. Deflector for motor-vehicle hot-air heaters. 1,690,723; Nov. 13.
Fraser, James, Hillcrest, Edgemoor, assignor to The Speakman Company, Wilmington, Del. Combination faucet and soap dish. Des. 76,790; Nov. 6.
Frazer, Gilbert S. (See Gordon, D. E., and Frazer.)
Frederick, Clarence H., assignor to Simmons Company, Kenosha, Wis. Tube-bending machine. 1,690,724; Nov. 6.
Freidah, Judson B., New York, N. Y. Traffic signal. 1,690,971; Nov. 6.
Fresk, Per A., Robertsfors, Sweden. Charging cellulose digesters and the like and means therefor. 1,690,192; Nov. 6.
Frey, Frederick, Cincinnati, Ohio. Making sausage casings. 1,690,779; Nov. 6.
Freyn Engineering Company. (See Willcox, Frederick H., assignor.)
Frick Company. (See Small, Norman M., assignor.)
Frick Company. (See Zumbro, F. R., and Shenton, assignors.)
Freid. Krupp Aktiengesellschaft. (See Schön, Ludwig, assignor.)
Friedrich, Carl, assignor to Mitteldeutsche Stahlwerke Aktiengesellschaft, Lauchhammer, Germany. Basin. 1,690,482; Nov. 6.
Fries, Franz. (See Imhoff, K., and Fries.)
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Fruin, Rogert E., Chicago, Ill. Cushion-tread horseshoe. 1,690,365; Nov. 6.
Fuchs, Samille H., assignor to The Maurice Levy Co., Inc., New York, N. Y. Finishing flat powder puffs and improved puff. 1,690,483; Nov. 6.
Funk, Arthur S., and E. S. Bott, assignors to La Crosse Rubber Mills Company, La Crosse, Wis. Shoe sole. Des. 76,791; Nov. 6.
Funk, John E., Stockton, Calif. Dredger-bucket mounting and operating structure. 1,690,574; Nov. 6.
Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Screw-feed and rapid-traverse mechanism. 1,690,163; Nov. 6.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inner-tube-inspection apparatus. 1,690,164; Nov. 6.
Gardeen, Carl J., St. Paul, Minn. Fuel-consumption indicator for automobiles. 1,690,328; Nov. 6.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company, Motor. 1,690,484; Nov. 6.
Gaynor, Arthur C., Stratford, Conn. Electric switch. 1,670,780; Nov. 6.
Gearing, Harry, Los Angeles, Calif., assignor to Nebraska Printing Company, Lincoln, Nebr. Delivery mechanism for printing presses. 1,690,288; Nov. 6.
Gedge, Edna R., Los Angeles, Calif., assignor to Peerless Products Company. Wax-distributing floor polisher. 1,691,024; Nov. 6.
Gee, William C., Rock Ferry, England. Steering-gear control. 1,690,289; Nov. 6.
Geiatt, Philo M., La Crosse, Wis., assignor, by mesne assignments, to National Gauge & Equipment Company, Wilmington, Del. Mounting for indicating instruments for automobiles. 1,690,575; Nov. 6.
General Cable Corporation. (See Scott, Charles A., assignor.)
General Chemical Company. (See Egleson, James E., assignor.)
General Fireproofing Company, The. (See Fitch, J. A., and Brainard, assignors.)
General Motors Corporation. (See Hardesty, Francis D., assignor.)
General Motors Corporation. (See Martin, William L., assignor.)
General Motors Corporation. (See Ross, C., and MacQuaid, assignors.)
General Motors Corporation. (See Seaholm, Ernest W., Parker, and Schadt, assignors.)
General Motors Corporation. (See Whitten, Frank A., assignor.)
General Motors Research Corporation. (See Clements, Frank O., assignor.)
General Motors Research Corporation. (See Kettering, Charles F., assignor.)



General Motors Research Corporation. (See Wallace, Hugh, assignor.)
General Railway Signal Company. (See Bushnell, Charles S., assignor.)
General Rubber Company. (See Hopkinson, Russell, assignor.)
Genese, David, deceased, by N. Genese, administrator, assignor of one-half to W. H. Orem, Baltimore, Md. Treatment of paper. 1,690,631; Nov. 6.
Genese, David, deceased, by N. Genese, administrator, assignor of one-half to W. H. Orem, Baltimore, Md. Bottle cap. 1,690,781; Nov. 6.
Genese, Norris, administrator. (See Genese, David.)
General Railway Signal Company. (See Howe, Winthrop K., assignor.)
General Railway Signal Company. (See Leake, Richard C., assignor.)
General Railway Signal Company. (See Taylor, Herbert B., assignor.)
General Railway Signal Company. (See Vallé, Armand J., assignor.)
Gent, Edgar W., Morristown, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave-transmission system. 1,690,224; Nov. 6.
Geohring, Louis J., Wishek, N. Dak. Automatic gate-controlling device. 1,690,972; Nov. 6.
George, Enoch, jr. (See Regan, W. J., and George.)
George, Jerome R., assignor to Morgan Construction Company, Worcester, Mass. Rolling mill. 1,690,193; Nov. 6.
Gercich, Frederick A., assignor to Hammer Bray Company, Oakland, Calif. Gas-kindling-burner installation. 1,690,290; Nov. 6.
Germond, Henry S., jr., Bayonne, N. J. Elevating apparatus. 1,690,107; Nov. 6.
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Schaffer, Walter, assignor.)
Gibbons, Scott W. (See Jeffries, W. J., and Gibbons.)
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., Hamden, assignor, by mesne assignments, to The A. C. Gilbert Company, New Haven, Conn. Toy building element. Des. 76,792; Nov. 6.
Gilchrist, William L., Albany, Oreg., assignor to Standard Securities Co. Automatic hydraulic valve. 1,690,165; Nov. 6.
Gillen, Philip J., Nova, Ohio. Rail anticreeper. 1,690,535; Nov. 6.
Gillette Schmidt Corporation. (See Schmidt, Benjamin F., assignor.)
Gilling, Preston E., East Orange, assignor to Radio Condenser Company, Camden, N. J. Electrical condenser. 1,690,674; Nov. 6.
Gilling, Preston E., East Orange, assignor to Radio Condenser Company, Camden, N. J. Electrical condenser. 1,690,675; Nov. 6.
Gilling, Preston E., assignor to Radio Condenser Company, Camden, N. J. Radio vacuum-tube condenser. 1,690,676; Nov. 6.
Gilman, George H., Belmont, Mass. Drilling machine. 1,690,859; Nov. 6.
Girton, Charles E., Cincinnati, Ohio. Knee joint for artificial limbs. 1,690,194; Nov. 6.
Goalstone, Michael J., Denver, Colo. Refrigerating show case. 1,690,485; Nov. 6.
Goldthorpe, William O. (See Ellis, G. H., and Goldthorpe.)
Gomes, Adolfo. (See Martinez, F., and Gomez.)
Gonzales, Guillermo, Johnstown, Pa. Device for playing musical instruments. 1,690,860; Nov. 6.
Goodman, Floyd O., Lewiston, Idaho. Inventory. 1,690,576; Nov. 6.
Goodrich, B. F., Company, The. (See Evans, Walter W., assignor.)
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)
Goodrich, B. F., Company, The. (See Kmentt, Waldemar D., assignor.)
Gordon, David D., assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Pull switch. 1,690,366; Nov. 6.
Gordon, Doc E., and G. S. Frazer, Oakland, Calif. Vehicle controlling means. 1,690,973; Nov. 6.
Gordon, Harry, et al. (See Tuñez, Amable S., assignor.)
Gordon, James, Chicago, Ill. Score-pad holder. Des. 76,793; Nov. 6.
Gotchette, Frances B., Oakland, Calif. Thread rack for sewing machines. 1,690,367; Nov. 6.
Gould & Eberhardt. (See Jacobson, Hugo W., assignor.)
Gould & Eberhardt. (See Zimmermann, William F., assignor.)
Gould & Eberhardt. (See Zimmermann, W. F., and Waters, assignors.)
Gouverneur, Minor F. H., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,690,291; Nov. 6.
Government and the People of the United States of America. (See Dunlap, Matthew E., assignor.)
Grady, Charles B., West Orange, N. J. Heat exchanger. 1,690,108; Nov. 6.



Grammes, L. F., & Sons, Inc. (See Price, Charles S., assignor.)
Grant, Richard F., F. B. Richards, and H. E. Wetherbee, assignors of one-fourth to H. M. Hanna, Cleveland, Ohio. Leaching process. 1,690,446; Nov. 6.
Granular Iron Company. (See Hornsey, John W., assignor.)
Grapp, Edward A., Minneapolis, Minn. Register construction for heating plants. 1,690,368; Nov. 6.
Grasselli Dyestuff Corporation. (See Duisberg, W., Hentrich, and Zeh, assignors.)
Grasselli Dyestuff Corporation. (See Eckert, Wilhelm, assignor.)
Grasselli Dyestuff Corporation. (See Hentrich, W., and Hardtmann, assignors.)
Grasselli Dyestuff Corporation. (See Heusner, K., and Simon, assignors.)
Grasselli Dyestuff Corporation. (See Holzach, K., and Metzger, assignors.)
Grasselli Dyestuff Corporation. (See Hotz, E., and Lanz, assignors.)
Grasselli Dyestuff Corporation. (See Job, Albert, assignor.)
Grasselli Dyestuff Corporation. (See Mieg, Walter, assignor.)
Grasselli Dyestuff Corporation. (See Unger, O., and Böhner, assignors.)
Grasselli Dyestuff Corporation. (See Vossen, Bartholomäus, assignor.)
Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Liquid solution of thiocarbanilide. 1,690,166; Nov. 6.
Gray, Harry L., and C. J. Staud, assignors to Eastman Kodak Company, Rochester, N. Y. Making chloroform-soluble cellulose acetate. 1,690,632; Nov. 6.
Green, Newton B., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,690,633; Nov. 6.
Greene, Frederic C., Atlanta, assignor of four-tenths to F. Brannan, Macon, Ga. Telephone. 1,690,634; Nov. 6.
Greiner, William P., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Automatic drying machine. 1,690,447; Nov. 6.
Griswold, Robert G., Westfield, N. J., assignor to Doherty Research Company, New York, N. Y. Gas water heater. 1,691,008; Nov. 6.
Gross, Ralph A., assignor to Simplex Paper Box Co., Lititz, Pa. Collapsible box. 1,690,109; Nov. 6.
Grosso, Patrick P., Chicago, Ill. Camera. 1,690,292; Nov. 6.
Gruendler, Gustav J., Clayton, Mo. Refrigerant container. 1,690,406; Nov. 6.
Gruendler, Gustav J., and W. A. Meletio, St. Louis County, Mo. Refrigerator. 1,690,407; Nov. 6.
Gruse, William A. (See Marley, S. P., and Gruse.)
Gulf Refining Company. (See Marley, S. P., and Gruse, assignors.)
Gulf Refining Company. (See McAfee, A. M., and Roberts, assignors.)
Guthrey, J. N. (See Best, E., and Vines, assignors.)
Guthrie, Robert G., Chicago, Ill., assignor to E. Leitz, Inc. Microscope. 1,690,677; Nov. 6.
Guy, Ralph I. (See McCourt, John T., assignor.)
Guyot, Walter, assignor to The Parker Pen Company, Janesville, Wis. Support for penholder. Des. 76,794; Nov. 6.
Gypsum Engineering and Manufacturing Co. (See Payne, Caleb, assignor.)
Hadwik Mfg. Co. Inc. (See Wikstrom, Frank G., assignor.)
Haggerty, Charles, Pawtucket, assignor to New England Butt Company, Providence, R. I. Carrier for braiding machines. 1,690,897; Nov. 6.
Hahn, Albert W., Salt Lake City, Utah. Oil-flotation process. 1,690,225; Nov. 6.
Haley, Lewellyn N., Clearwater, Fla. Citrus-fruit brushing and polishing apparatus. 1,690,195; Nov. 6.
Half, Edmond, Paris, France. Device for giving warning of fire. 1,690,486; Nov. 6.
Halk, Louis, Hackensack, N. J., assignor to Northam Warren Corporation, New York, N. Y. Display stand. Des. 76,795; Nov. 6.
Hall, George B., Winnipeg, Manitoba, Canada. Household commodity indicator. 1,690,293; Nov. 6.
Hall, Harry A., assignor to The Hoosier Manufacturing Company, Newcastle, Ind. Saw guard. 1,690,817; Nov. 6.
Hallwood, Nathan A., Columbus, Ohio. Scale. 1,690,196; Nov. 6.
Halter, George A., Lakewood, assignor to The Halter Metal Products Company, Cleveland, Ohio. Hangar for toy aeroplanes. Des. 76,796; Nov. 6.
Halter Metal Products Company, The. (See Halter, George A., assignor.)
Hammar Co. Inc. (See Hammar, Sigard A. S., assignor.)
Hammar, Sigard A. S., Bethlehem, Pa., assignor to Hammar Co. Inc., Brooklyn, N. Y. Gear teeth. 1,690,931; Nov. 6.
Hammer-Bray Company. (See Gercich, Frederick A., assignor.)
Hammond, John H., jr. (See Chaffee, E. L., and Purington, assignors.)
Hammond, John H., jr., Gloucester, Mass. Organ. 1,690,577; Nov. 6.
Hammond, John H., jr., Gloucester, Mass. Submarine sound receiver. 1,690,578; Nov. 6.

Hammond, John H., jr., Gloucester, Mass. System for the production of and detection of compressional waves. 1,690,579; Nov. 6.
Hanna, Howard M. (See Grant, R. F., Richards, and Wetherbee, assignors.)
Hannauer Car Retarder Company, The. (See Wenzel, Karl E., assignor.)
Hanson, Albert J., Arlington, assignor to American Metallurgical Corporation, Boston, Mass. Electric resistance furnace. 1,690,678; Nov. 6.
Hanson, Oscar B., Dickinson, N. Dak. Collapsible case. 1,690,294; Nov. 6.
Hardesty, Francis D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Controlling device. 1,690,339; Nov. 6.
Hardtmann, Max. (See Hentrich, W., and Hardtmann.)
Hart, George H., West Hartford, Conn. Time and temperature control of heating elements. 1,690,898; Nov. 6.
Harte, Henry G., Omaha, Nebr. Animal trap. 1,690,369; Nov. 6.
Hartman, Stephen L., Santa Ana, Calif. Plug for wells. 1,690,536; Nov. 6
Hartmann, Max, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of pysiologically-active substances from ovaries, corpus luteum, and placenta. 1,690,932; Nov. 6.
Harvey, Edward J., Racine, Wis. Automobile bumper. Des. 76,797; Nov. 6.
Hasenflue, Nelson T., assignor to The Champion Hardware Company, Geneva, Ohio. Hasp. 1,690,408; Nov. 6.
Hatch, Alexander G., Farmington, assignor to The Sesamee Company, Hartford, Conn. Lock. 1,690,818; Nov. 6.
Hawkins, John F., Pawhuska, Okla. Lawn mower. 1,690,899; Nov. 6.
Hazard, George E., and H. F. Boe, Rochester, N. Y. Washing machine. 1,690,974; Nov. 6.
Headley, Arthur E., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,690,197; Nov. 6.
Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Pneumatic shock absorber. 1,690,110; Nov. 6.
Heany Laboratories, Inc. (See Heany, John A., assignor.)
Hebden, Frank S., assignor to Merrick Scale Mfg. Company, Passaic, N. J. Automatic weighing mechanism. 1,690,679; Nov. 6.
Hedley, Frank, Yonkers, and J. S. Doyle, Mount Vernon, N. Y. Protecting electrical line conductors. 1,690,580; Nov. 6.
Heine, Herman E. (See Schlesinger, L., and Heine.)
Heinrich, Jules. (See Currier, K. G., and Heinrich.)
Heising, Raymond A., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Plural-phase generation or other systems. 1,690,226; Nov. 6.
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Transmission by modulated waves. 1,690,227; Nov. 6.
Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency transformer. 1,690,228; Nov. 6.
Hele-Shaw, Henry S., and A. Beale, London, England. Separation of liquids. 1,690,537; Nov. 6.
Heltzel, John N., Warren, Ohio. Road form. 1,690,295; Nov. 6.
Henry, George W., jr., assignor to Soabar Company, Philadelphia, Pa. Stopping and starting mechanism for ticketing machine. 1,690,975; Nov. 6.
Henry, George W., jr., assignor to Soabar Company, Philadelphia, Pa. Roll pin ticket. 1,690,976; Nov. 6.
Hensley, Charles G. (See Bower, Sigmund, assignor.)
Hentrich, Winfried. (See Duisberg, W., Hentrich, and Zeh.)
Hentrich, Winfried, and M. Hardtmann, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Complex copper-ammine azo dyestuffs. 1,690,782; Nov. 6.
Hepburn, William M., assignor to The Surface Combustion Co. Incorporated, New York, N. Y. Regulating apparatus. 1,690,819; Nov. 6.
Herbermann, Frederick C., Mount Vernon, N. Y. Clock case. Des. 76,798; Nov. 6.
Hermetite Corporation. (See Oliver, Norman E., assignor.)
Heston, Lorenzo R., and A. L. Anderson, Fairfield, Iowa. Sawing machine. 1,690,111; Nov. 6.
Heusner, Karl, and M. Simon, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Producing azo dyestuffs. 1,690,783; Nov. 6.
Heyman, Nicholas, Newark, N. J., assignor to Henry Katz & Co., New York, N. Y. Mechanical toy. 1,690,409; Nov. 6.
Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)
Hilgers, Wilhelm, Dusseldorf, Germany. Molding machine for butter, margarine, and the like. 1,690,784; Nov. 6.
Hirsh, Joseph E., Brooklyn, and A. D. Robson, assignors to Standard Varnish Works, New York, N. Y. Composition for polishing surfaces composed of cellulose-ester compositions. 1,690,680; Nov. 6.
Hirth, Albert, Cannstatt-Stuttgart, Germany. Crank shaft. 1,690,296; Nov. 6.
Hoeller, Otto A., Cincinnati, Ohio. Automobile signal switch. 1,690,370; Nov. 6.
Hoff, Chester A., assignor to The Akron Lamp Company, Akron, Ohio. Window cleaner. 1,690,581; Nov. 6.
Hoge, Joseph F. D., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable support. 1,690,297; Nov. 6.
Holden, William H. T., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Vacuum tube and associated element. 1,690,167; Nov. 6.
Holed-Tite Packing, Inc., et al. (See Koppelman, M., and Mapes, assignors.)
Hollinger, Emil F., assignor of one-half to E. C. Crowley, New York, N. Y. Electromagnetic sound-reproducing apparatus. 1,690,725; Nov. 6.
Hollinger, Emil F., assignor of one-half to E. C. Crowley, New York, N. Y. Sound-reproducing device. 1,690,726; Nov. 6.
Holzach, Karl, Ludwigshafen-on-the-Rhine, and R. Metzger, Heidelberg, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of azo dyestuffs. 1,690,900; Nov. 6.
Hood, Frank E. and J. E., and A. G. Morrison, San Francisco, Calif. Window valance. 1,690,298; Nov. 6.
Hood, Frank R., Stockton, Calif. Grader. 1,690,977; Nov. 6.
Hood, Janet E. (See Hood, Frank E. and J. E., and Morrison.)
Hook, Henry C., assignor to International Fuel Service Corporation, Bridgeport, Conn. Undergrate draft blower. 1,690,112; Nov. 6.
Hoosier Manufacturing Company, The. (See Hall, Harry A., assignor.)
Hooton, Gordon B., Grand Rapids, Mich. Spring snubber for automobiles. 1,690,113; Nov. 6.
Hopkins, Robert C., Alliance, Ohio. Oil mill. 1,690,168; Nov. 6.
Hopkinson, Russell, assignor to General Rubber Company, New York, N. Y. Collecting spray-dried latices. 1,690,114; Nov. 6.
Hornby, Frank, Liverpool, England, assignor to Meccano Company, Inc., Elizabeth, N. J. Track for toy trains. 1,690,448; Nov. 6.
Hornsey, John W., Norton by Sheffield, England, assignor to Granular Iron Company. Reduction of metals from ores. 1,690,820; Nov. 6.
Horton, Allen A., Plymouth, Mich., assignor to Burroughs Adding Machine Company. Attachment for calculating machines. 1,690,487; Nov. 6.
Horton, Allen A., Plymouth, assignor to Burroughs Adding Machine Company, Detroit, Mich. Cushioning mechanism for calculating machines. 1,690,488; Nov. 6.
Horton, Joseph W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Generation and control of electric waves. 1,690,299; Nov. 6.
Horton, Joseph W., Bloomfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,690,300; Nov. 6.
Hotz, Ernst, Hattersheim-on-the-Main, and V. Lanz, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Preparing 2-aminonaphthalene-3-carboxylic acid. 1,690,785; Nov. 6.
House, Frank R., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Make-and-break device. 1,690,538; Nov. 6.
Howard, Hermon E., assignor to Weller Manufacturing Company, Chicago, Ill. Belt conveyer. 1,690,301; Nov. 6.
Howard, Reubin, Parkdale, Oreg. Musical instrument. 1,690,340; Nov. 6.
Howe, Winthrop K., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,691,009; Nov. 6.
Howe, Winthrop K., assignor to General Railway Signal Company. Brake shoe for car retarders. 1,691,010; Nov. 6.
Hubbell, Harvey, Incorporated. (See Petersen, Carl M., assignor.)
Hubmann, Otto, Frankfort-on-the-Main, Germany. Apparatus for distilling solid combustible carbonaceous material. 1,690,933; Nov. 6.
Hubmann, Otto, assignor to Metallbank & Metallurgische Gesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for cleansing and cooling gases. 1,690,635; Nov. 6.
Hubmann, Otto, assignor to Metallbank und Metallurgische Gesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for distilling combustible materials. 1,690,934; Nov. 6.
Hubmann, Otto, assignor to Metallbank & Metallurgische Gesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Process and apparatus for distillation of combustible materials. 1,690,935; Nov. 6.
Hudson, David W., Green Bay, Wis. Paper-perforating mechanism. 1,690,410; Nov. 6.
Hudson, David W., Green Bay, Wis. Creping of paper. 1,690,411; Nov. 6.
Huestis, Thomas B., assignor to National India Rubber Company, Bristol, R. I. Making shoe soles. 1,690,115; Nov. 6.
Hukill, Henry D., Pitsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-shoe construction. 1,690,302; Nov. 6.



Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Grate construction for ice compartments of refrigerator cars. 1,690,412; Nov. 6.
Hume, Walter R., Melbourne, Australia. Automatic control device for electric-arc welding apparatus. 1,690,489; Nov. 6.
Hunker, Martin L. (See Wendle, V. P., and Hunker.)
Hunt, Andrew M., New York, N. Y., assignor to Standard Stoker Company, Incorporated. Stoker construction. 1,690,116; Nov. 6.
Hunt, Andrew M., New York, N. Y., assignor to Standard Stoker Company, Incorporated. Stoker. 1,690,582; Nov. 6.
Huntington Auto Supply Company, The. (See Adkins, Elba O., assignor.)
Hutchinson, Ely C. (See Karnasch, L. M., and Hutchinson.)
Hutzley, Amiel G., Warren, assignor to The Baker-Raulang Company, Cleveland, Ohio. Industrial truck. 1,690,681; Nov. 6.
I. G. Farbenindustrie Aktiengesellschaft. (See Pungs, W., and Jahrstorfer, assignors.)
Ihnen, Wiard B., New York, N. Y. Galosh. Des. 76,799; Nov. 6.
Imhoff, Karl, and F. Fries, Essen, Germany. Method of and apparatus for dealing with floating sludge in digestion chambers for sewage treatment. 1,690,682; Nov. 6.
Ingersoll-Rand Company. (See Bayles, L. C., and Slater, assignors.)
Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)
International Combustion Engineering Corporation. (See Klein, Louis W., assignor.)
International Fuel Service. (See Hook, Henry C., assignor.)
Ireland, Ward S. (See Dennison, F. E., and Ireland.)
Jackson, Edward W., assignor to B. B. T. Corporation of America, Philadelphia, Pa. Beacon. 1,691,011; Nov. 6.
Jackson, James, Bakersfield, Calif. Egg turner for incubators. 1,690,169; Nov. 6.
Jacobson, Hugo W., Arlington, assignor to Gould & Eberhardt, Newark, N. J. Feed control for shaping-machine worktables. 1,690,583; Nov. 6.
Jacocks, George T., assignor to The Whitlock Coil Pipe Company, West Hartford, Conn. Heat-exchange apparatus. 1,691,012; Nov. 6.
Jahrstorfer, Michael. (See Pungs, W., and Jahrstorfer.)
Jamerson, Gus A., assignor to M. Stern, Cincinnati, Ohio. Automobile chassis-lubricating system. 1,690,490; Nov. 6.
Jamerson, Gus A., assignor to M. Stern, Cincinnati, Ohio. Lubricator. 1,690,636; Nov. 6.
James, Ulysses S., Newark, N. J. Vibrator. 1,690,901; Nov. 6.
Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper-attaching means. 1,690,821; Nov. 6.
Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Center clamp. 1,690,861; Nov. 6.
Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,800; Nov. 6.
Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,801; Nov. 6.
Jandus, Herbert S., and J. R. Morgan, Detroit, Mich. Clamp. Des. 76,802; Nov. 6.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,803; Nov. 6.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,804; Nov. 6.
Jandus, Herbert S., and W. Meyerhuber, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,805; Nov. 6.
Jandus, Herbert S., and W. Meyerhuber, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 76,806; Nov. 6.
Jandus, Herbert S., and J. R. Morgan, Detroit, Mich. Clamp plate. Des. 76,807; Nov. 6.
Jarvis, W. B., Company. (See Ruppel, Frederick C., assignor.)
Jatlow, Jacob L. (See Crouse, G. B., and Jatlow.)
Jatunn, Lillian, Troy, Mont. Toy monoplane. 1,690,978; Nov. 6.
Jaworowski, Joseph F., assignor, by mesne assignments, to J. F. Jaworowski and S. Dettelbach, Cleveland, Ohio. Rotary pump. 1,690,727; Nov. 6.
Jaworowski, Joseph F., assignor, by mesne assignments, to J. F. Jaworowski and S. E. Dettelbach, Cleveland, Ohio. Rotary pump. 1,690,728; Nov. 6.
Jaworowski, Joseph F., et al. (See Jaworowski, Joseph F., assignor.)
Jeffries, William J., and S. W. Gibbons, Portland, Oreg. Automatic paper-folding machine. 1,690,902; Nov. 6.
Jenkins, William M., Chicago, Ill. Wall board. 1,690,229; Nov. 6.
Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Metal shears. 1,690,303; Nov. 6.
Job, Albert, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs of the pyridazine-anthraquinone series. 1,690,786; Nov. 6.
Johansson, Karl A. A., Stockholm, Sweden. Device for the erection and keeping of typewriters. 1,690,822; Nov. 6.
Johnson, Alfred F., Somerville, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,691,013; Nov. 6.
Johnson, Alfred J., assignor to J. W. York & Sons, Grand Rapids, Mich. Saxophone. 1,690,862; Nov. 6.
Johnson, Arthur J., and J. J. Moriarty, assignors to American Range Corporation, Shakopee, Minn. Circulating heater. Des. 76,808; Nov. 6.
Johnson, Ernest N., Winnipeg, Manitoba, Canada. Rail anchor. 1,690,979; Nov. 6.
Johnson, Frank E. (See Johnson, Gustaf A. and F. E.)
Johnson, Gustaf A. and F. E., assignors to John I. Paulding, Inc., New Bedford, Mass. Clamp for electric sockets. 1,690,683; Nov. 6.
Johnson, Gustav, West Roxbury, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. 1,690,637; Nov. 6.
Johnson, Harley S., Erwin, Tenn. Pencil clip. 1,690,980; Nov. 6.
Johnson, Wallace C., New York, N. Y. Cylindrical member and making the same. 1,690,684; Nov. 6.
Jones, Loyd A., assignor to Eastman Kodak Company, Rochester, N. Y. Apparatus for producing kaleidoscopic designs. 1,690,584; Nov. 6.
Jones, Thomas H., Woodthorpe, England. Circular-knitting machine and the production of fabrics thereon. 1,690,729; Nov. 6.
Jones, William A., Fort Worth, Tex., assignor to National Vehicle Rim Corporation. Vehicle wheel rim. 1,690,981; Nov. 6.
Jones, William C., Alameda, Calif. Liquid-dispensing apparatus. 1,690,730; Nov. 6.
Joughins, George R., Elizabeth, N. J. Railway box freight car. 1,690,170; Nov. 6.
Jourdan, William, Chicago, Ill. Preparing food products. 1,690,449; Nov. 6.
Judelson, Louis, New York, N. Y. Clothes wringer. 1,690,117; Nov. 6.
Julian, Gideon J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,690,198; Nov. 6.
Julyhn, Fred G., Euclid, Ohio, assignor to Auto Mechanical Products Company, Chicago, Ill. Battery connecter. 1,690,118; Nov. 6.
Kadow Foundation, Incorporated. (See Smith, David C., assignor.)
Kane, John C., Detroit, Mich. Oscillator. 1,690,413; Nov. 6.
Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 76,809; Nov. 6.
Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 76,810; Nov. 6.
Karnasch, Leopold M., San Francisco, and E. C. Hutchinson, Oakland, assignors to The Pelton Water Wheel Co., San Francisco, Calif. Needle-nozzle construction. 1,690,685; Nov. 6.
Kashian, Minas H., Boston, Mass. Automobile body. Des. 76,811; Nov. 6.
Katz, Henry, & Co. (See Heyman, Nicholas, assignor.)
Kaveney, Paul J., Bloomington, Ill. System for protecting highway crossings at the right of way of railways. 1,690,903; Nov. 6.
Kelley, James T. (See Denz, E. A., Kelley, and Titus.)
Kelley, John M., Rochester, N. Y., assignor, by mesne assignments, to The Protane Corporation (1926). Process and apparatus for burning liquid fuel. 1,690,119; Nov. 6.
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,690,638; Nov. 6.
Kelvinator Corporation. (See Barnhart, John W., assignor.)
Kemble, Thomas S., Cleveland, Ohio, assignor, by mesne assignments, to Universal Gas Electric Company, Lawrence, Kans. Contactor. 1,690,414; Nov. 6.
Kennedy, Robert E., The Brunswick-Balke-Collender Company, Chicago, Ill. Division guard for bowling alleys. 1,690,539; Nov. 6.
Kent, Arthur A., Ardmore, Pa. Cabinet for radio receiving apparatus. Des. 76,812; Nov. 6.
Kerrick, William O. (See Rickey, Loren W., assignor.)
Kesel, William P., New York, N. Y., assignor to Cummings Corporation, Philadelphia, Pa. Display stand. Des. 76,813; Nov. 6.
Kesling, Elmer G., Bloomfield, N. J. Gear-shifting mechanism. 1,690,639; Nov. 6.
Ketchpel, Paul A. (See Lower, N. M., and Ketchpel.)
Kettering, Charles F., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Air cleaner. 1,690,341; Nov. 6.
Keyes, John M., et al. (See Savage, Llewellyn T., assignor.)
Keyes, Laura H., et al. (See Savage, Llewellyn T., assignor.)
Keystone Roofing Manufacturing Company. (See Preston, Frederick W., assignor.)
Kieffer, Eugene T., Cheyney, Pa., assignor to Victor Talking Machine Company. Cabinet for sound producing and reproducing instruments. Des. 76,814; Nov. 6.

Kieffer, Eugene T., Cheyney, Pa., assignor to Victor Talking Machine Company. Cabinet for sound producing and reproducing instruments. Des. 76,815; Nov. 6.

Kiesselbach, Clemens, Bonn, Germany. Steam-generating system. 1,690,120; Nov. 6.

Killion, John H., Chicago, Ill. Metal lath. 1,690,450; Nov. 6.

Klaus, Fred R., and F. H. Meyer, Warren, Ohio, assignors to The American Welding and Manufacturing Company. Cushion-tire structure. 1,690,823; Nov. 6.

Klein, Louis W., Chicago, Ill., assignor to International Combustion Engineering Corporation, New York, N. Y. Traveling-grate stoker. 1,690,863; Nov. 6.

Klein, Norman E., Medford, Oreg. Universal curve device. 1,690,540; Nov. 6.

Kleitz, William, Albany, N. Y. Concrete-molding apparatus. 1,690,864; Nov. 6.

Klimek, August, Chicago, Ill. Brake meter. 1,690,121; Nov. 6.

Kline, Fred J., Long Island City, N. Y. Lock for paper fasteners. 1,690,230; Nov. 6.

Klugh, Bethune G., Chicago, Ill., assignor to American Ore Reclamation Company, New York, N. Y. Sintering machine. 1,690,231; Nov. 6.

Kmentt, Waldemar D., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Automatic classifying device. 1,690,171; Nov. 6.

Knauff, George C., Chicago, Ill. Portable electric lamp. 1,690,491; Nov. 6.

Knight, Herbert M., Montclair, N. J. Tidal hydraulic air compressor. 1,690,787; Nov. 6.

Kniskern, Walter H., Syracuse, assignor to Atmospheric Nitrogen Corporation, Solvay, N. Y. Treating gases bearing gaseous synthetic ammonia. 1,690,585; Nov. 6.

Knopp, Ernst. (See Zenneck, J., and Knopp.)

Koch, Wehner A., Los Angeles, Calif. Reamer and burnishing tool. 1,690,371; Nov. 6.

Koester, Archibald C. (See Clark, Alfred B., assignor.)

Kondolf, Henry E., New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Making tie elements. 1,690,865; Nov. 6.

Kondolf, Mathias R., Cynwyd, assignor to Boxboard Products Company, Philadelphia, Pa. Container. 1,690,824; Nov. 6.

Koppelman, Morris, Brooklyn, N. Y., and W. H. Mapes, Glen Ridge, N. J., assignors to Holed-Tite Packing, Inc., and Mapes Consolidated Manufacturing Company, Wilmington, Del. Egg carrier. 1,690,492; Nov. 6.

Koppers Company, The. (See Sperr, Frederick W., jr., assignor.)

Kossuth, Louis, and C. Lanza, Garfield, N. J. Can opener. 1,690,982; Nov. 6.

Krafft, Frederick W., Berkeley, Calif. Clutch. 1,690,686; Nov. 6.

Kramer, Joseph, New York, assignor to The Lox Seal Corporation, Brooklyn, N. Y. Pilferproof box. 1,690,866; Nov. 6.

Kraus, Emil, The Hague, Netherlands, assignor to Fabriek Van Chemische Producten, Schiedam. Manufacture of sulphurized derivatives of phenols. 1,690,640; Nov. 6.

Kraus, Emil, The Hague, Netherlands, assignor to Fabriek Van Chemische Producten, Schiedam. Manufacture of new sulphurized derivatives of naphthols. 1,690,641; Nov. 6.

Kronenberg, Frederick W., Philadelphia, Pa. Downflow steam generator. 1,690,642; Nov. 6.

Kruschitzki, Johann, assignor to Metallwerk Max Brose & Co., Coburg, Germany. Speedometer. 1,690,788; Nov. 6.

Kaufmann, Max., & Company. (See Edlich, Carl, assignor.)

Keller, Paul E. (See Daun, C. L., and Keller.)

Kubatzky, Otto, Tulsa, Okla. Set of playing cards. Des. 76,816; Nov. 6.

Küchenmeister, Heinrich J., Berlin, Germany. Gramophone. 1,690,122; Nov. 6.

Kuhn, Frank, and L. H. Thomas, assignors to American Electrical Heater Company, Detroit, Mich. Electric melting pot. 1,690,415; Nov. 6.

Kuhn, John J., Elizabeth, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum tube and socket. 1,690,232; Nov. 6.

Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Spring holding and positioning clip. 1,690,731; Nov. 6.

Kulp, Harry W., and M. C. Dellinger, Lancaster, Pa. Heavy-duty valve-spring lifter or compressor. 1,690,732; Nov. 6.

Küpfmüller, Karl, Berlin-Friedenau, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Impedance-correcting network. 1,690,233; Nov. 6.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 7,690,825; Nov. 6.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,690,826; Nov. 6.

Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,690,867; Nov. 6.

Kuzelewski, Adalbert R., assignor to one-half to Marburg Brothers, Inc., New York, N. Y. Fluid or air controlling and operating device for machine tools or the like. 1,690,541; Nov. 6.

La Crosse Rubber Mills Company. (See Funk, A. S., and Bott, assignors.)

Laemmel, Charles A., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y. Cutter or knife for meat-grinding machines. 1,690,904; Nov. 6.

Lafiam, Alfred P., Burlington, Vt. Attachment for combing machines. 1,690,983; Nov. 6.

Lamb, Joseph, Detroit, Mich. Micrometer gauges. 1,690,733; Nov. 6.

Lamberty, Frederick R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trunking circuit to centralized operator's position. 1,690,234; Nov. 6.

Lamble, James M. (See Ross, D. W., and Lamble.)

Lamm, Leslie E. (See Matthews, Orville S., assignor.)

Lane, Fred W., and K. M. Anderson, Oakland, Calif. Ice-cream cone. 1,690,984; Nov. 6.

Langen, Eero V., Fitchburg, Mass. Collapsible boat. 1,699,936; Nov. 6.

Langenbaker, Sylvester A., San Francisco, Calif., assignor to Macbeth-Evans Glass Company, Charleroi, Pa. Glass tumbler. Des. 76,817; Nov. 6.

Langer, Harry C., Milwaukee, Wis. Making stockings. 1,690,734; Nov. 6.

Lansdorf, Edwin B., New York, N. Y. Mirror or similar article. 76,818; Nov. 6.

Lanz, Valentin. (See Hotz, E., and Lang.)

Lanza, Charles. (See Kossuth, L., and Lanza.)

Larm, Albert J., Hagestown, Md. Hair-waving device. 1,690,937; Nov. 6.

La Rose, William J., North Troy, N. Y. Collar. 1,690,868; Nov. 6.

La Salle Brass & Bronze Works, Inc. (See Blumenfeld, Edward G., assignor.)

Lathrop, Harry D., Chicago, Ill. Milk-dumping device. 1,690,735; Nov. 6.

Lavender, Samuel C., Lorenzo, Tex. Hose clamp. 1,690,643; Nov. 6.

Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Rebasing lamps. 1,691,014; Nov. 6.

Leavitt, H. B. (See Radford, Robert L., assignor.)

Leicht, Joseph F., Milwaukee, Wis. Cap. 1,690,736; Nov. 6.

Leitz, E., Inc. (See Guthrie, Robert G., assignor.)

Leister, Fayette, assignor to The Fafnir Bearing Company, New Britain, Conn. Lubricating means for antifriction bearings. 1,691,015; Nov. 6.

Lemmon, Rees H., Long Beach, Calif. Pump plunger. 1,690,687; Nov. 6.

Lennox, Ira, Grand Junction, Colo. Collapsible window shutter or shield. 1,690,644; Nov. 6.

Leonard, Harry M., Rantoul, Ill. Convertible embalming table. 1,690,451; Nov. 6.

Lepage, Ivan. (See De Geynst, M. and Lepage.)

Levin, Morris, et al. (See Tuñez, Amable S., assignor.)

Levy, Mauric, Co., The. (See Fuchs, Camille H., assignor.)

Libby, A. D. T. (See Norwood, Harry G., assignor.)

Liebel-Flarsheim Company, The. (See Flarsheim, Edwin S., assignor.)

Lilley Company, The. (See Williams, Charles E., assignor.)

Lillibridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Company, Ltd., New York, N. Y. Discharge loading means for tile-cleaning machines. 1,690,542; Nov. 6.

Lin Material Company. (See Steinmayer, Alwin G., assignor.)

Linderman, Bert A., Muskegon, Mich. Fluid-pressure-operated device. 1,690,543; Nov. 6.

Lindsey, Ernest E., San Francisco, Calif. Compound for bread making. 1,690,688; Nov. 6.

Lipp, Victor K., Seattle, Wash. Apparatus for drawing and steering trailer vehicles. 1,690,985; Nov. 6.

Livesay, Everett G., Dayton, Ohio. Towing apparatus. 1,690,372; Nov. 6.

Livingston, Fremont P., Denver, Colo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Compressor unloader. 1,690,304; Nov. 6.

Lloyd, Lewis C., Wilmington, Calif. Protractor. 1,690,645; Nov. 6.

Locke Insulator Corporation. (See Gouverneur, Minor F. H., assignor.)

Loewenbach, Erwin B., Milwaukee, Wis. Stitch-down shoe. 1,690,737; Nov. 6.

Lomax, Ernest L. (See Lucas, O. D., and Lomax.)

Long, Harry B., Paterson, N. J. Schedule-checking apparatus. 1,690,738; Nov. 6.

Lopez, Francisco. (See Nieto, Manuel, assignor.)

Lorenz, Phoebe B., executrix. (See Lorenz, William A.)

Lorenz, William A., deceased, West Hartford, Conn.; P. B. Lorenz, executrix. Machine for making elastic paper. 1,690,172; Nov. 6.

Los Angeles Manufacturing Company. (See Trout, Oliver C., assignor.)

Lowe, Sherwin P. (See Phelan, R. E., and Lowe.)

Lower, Nathan M., and P. A. Ketchpel, Pittsburgh, Pa., assignors, by mesne assignments, to The Standard Stoker Company Inc., New York, N. Y. Elevator casing. 1,690,789; Nov. 6.

Lowkrantz, Gunne, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Light lock for photographic film strips. 1,690,739; Nov. 6.





Lox Seal Corporation, The. (See Behrman, Marcus B., assignor.)

Lox Seal Corporation, The. (See Kondolf, Henry E., assignor.)

Lox Seal Corporation, The. (See Kramer, Joseph, assignor.)

Lübeck, Karl H. O., Tslinge, Sweden. Electric automobile. 1,690,199; Nov. 6.

Lucas, Owen D., and E. L. Lomax, Broadway, Westminster, assignors to V. L. Oil Processes Limited, Westminster, England. Cracking of liquid hydrocarbons. 1,690,416; Nov. 6.

Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,690,235; Nov. 6.

Lucey Manufacturing Corporation of Tennessee. (See Woodbury, Robert W., assignor.)

Luery, Michael, Chicago, Ill. Adjustable radiator cover. 1,690,740; Nov. 6.

Lumsden, William G. G. P., assignor to R. Stephens, liquidator of The Pirbright Company Limited. (In Liquidation), London, England. Separating liquids of different specific gravity and means therefor. 1,690,741; Nov. 6.

Lundmark, John A., Chicago, Ill. Air cooler and humidifier. 1,690,417; Nov. 6.

Macbeth-Evans Glass Company. (See Langenbaker, Sylvester A., assignor.)

Mackey, Leland. (See Barnard, T. V., and Mackey.)

Mackey, Leonard. (See Barnard, T. V., and Mackey.)

Mackey, Ray. (See Barnard, T. V., and Mackey.)

Macomb Manufacturing Company. (See Wright, Charles R., assignor.)

Macomber, Lynn W., assignor to United Steel and Wire Co., Battle Creek, Mich. Bottle crate. 1,690,418; Nov. 6.

MacQuaid, John. (See Ross, C., and MacQuaid.)

Macy, Barnett W., assignor to The Commercial Clearing Corporation, Jacksonville, Fla. Heating device. 1,690,986; Nov. 6.

Madsen, Gustav N., Minneapolis, Minn. Velocipede. 1,690,342; Nov. 6.

Magrath, Arthur C. (See Booth, W. T., and Magrath.)

Main, William J., Westport, Conn., assignor to C. Errett, New York, N. Y. Collapsible paper cup. 1,690,586; Nov. 6.

Malcher, Otto, Chicago, Ill. Weighing scale. 1,690,123; Nov. 6.

Malm, Carl J. (See Clarke, H. T., and Malm.)

Malouf, Edward F., Marysville, Calif. Nail setter. 1,690,987; Nov. 6.

Manent, Jean P. and M., Lyon, France. Machine for the manufacture of wire spiral. 1,690,452; Nov. 6.

Manent, Marius. (See Manent, Jean P. and M.)

Manning, Harvey E., Little Rock, Ark. Molded article and preparing the same. 1,690,305; Nov. 6.

Mapes Consolidated Manufacturing Company et al. (See Koppelman, M., and Mapes, assignors.)

Mapes, Winfield H. (See Koppelman, M., and Mapes.)

Marburg Brothers, Inc. (See Kuzelewski, Adalbert R., assignor.)

Marchev, Alfred, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for twisting strands. 1,690,373; Nov. 6.

Marcy, Frank E., San Diego, Calif. Mill. 1,690,493; Nov. 6.

Marcy, Frank E., San Diego, Calif. Mill. 1,690,494; Nov. 6.

Marcy, Frank E., San Diego, Calif. Mill. 1,690,495; Nov. 6.

Marcy, Frank E., San Diego, Calif. Mill. 1,690,496; Nov. 6.

Marley, Samuel P., Pittsburgh, and W. A. Gruse, Wilkinsburg, assignors to Gulf Refining Company, Pittsburgh, Pa. Motor fuel. 1,690,988; Nov. 6.

Marshall, Frank O., Chicago, Ill. Belting. 1,690,453; Nov. 6.

Martin, William L., assignor to General Motors Corporation, Detroit, Mich. Motor-vehicle brake mechanism. 1,690,343; Nov. 6.

Martinez, Frederick, and A. Gomez, New York, N. Y. Hemostatic. 1,690,869; Nov. 6.

Marvin, Richard H., assignor to The R. Thomas & Sons Company, East Liverpool, Ohio. Multiple-string insulator suspension. 1,690,989; Nov. 6.

Maryland Baking Company. (See Shapiro, Joseph, assignor.)

Mas, George N., Washington, D. C., assignor to American Ornamental Bottle Corporation, Lynchburg, Va. Bottle. Des. 76,819; Nov. 16.

Matthews, Orville S., assignor of one-third to L. E. Lamm, Parsons, Kans. Locomotive-tender tank valve. 1,690,742; Nov. 6.

Matthiessen, Ralph H., and W. B. Eddison, Irvington, N. Y. Device for checking the operation of vehicles. 1,690,827; Nov. 6.

Mattison Machine Works. (See Vivarttas, William O., assignor.)

Mattison Machine Works. (See Vivarttas, W. O., and Medholdt, assignors.)

Maxwell, Francis, Wallington, England. Machine for crushing and shredding sugar cane and like material. 1,690,828; Nov. 6.

Maxwell, Maxwell C., assignor to The Yale and Towne Manufacturing Company, Stamford, Conn. Padlock. 1,690,938; Nov. 6.

May Hosiery Mills. (See Perry, Napoleon J., assignor.)

Mayer, William, New York, N. Y. Trailer hoist and coupler. Re17,124; Nov. 6.

Mazzocco, Dante V., assignor to The Surface Combustion Co. Incorporated, New York, N. Y. Regulating apparatus. 1,690,829; Nov. 6.

McAfee, Almer M., and G. I. Roberts, Port Arthur, Tex., assignors to Gulf Refining Company, Pittsburgh, Pa. Making aluminum chloride. 1,690,990; Nov. 6.

McArthur, Charles D., Berkeley, Calif. Joint for furniture and the like. 1,690,124; Nov. 6.

McAtree, John L., Brooklyn, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity box and compact therefor. 1,690,587; Nov. 6.

McCabe, Ira E., Chicago, Ill. Pressure-actuated electric-circuit control. 1,690,689; Nov. 6.

McCabe, Ira E., Chicago, and R. W. Armstrong, Wilmette, Ill.; said Armstrong assignor to The Arcless Contact Company. Temperature-control switch. 1,691,016; Nov. 6.

McCain, Paul H., assignor to Economy Screw Corporation, Chicago, Ill. Machine for heading blanks. 1,690,419; Nov. 6.

McCandliss, Edgar S., Topeka, Kans. Road-grading machine. 1,690,374; Nov. 6.

McCluney, William R., Warrensburg, Mo. Tack and brad driver. 1,690,588; Nov. 6.

McConway & Torley Company, The. (See Kelso, William, assignor.)

McConway & Torley Company, The. (See Regan, W. J., and George, assignors.)

McCourt, John T., assignor of one-half to R. I. Guy, Los Angeles, Calif. Gas burner. 1,690,743; Nov. 6.

McDevitt, Francis E., and H. A. Colburn, Rutland, Vt. Ventilating system. 1,690,905; Nov. 6.

McGill Manufacturing Company. (See Despard, Victor R., assignor.)

McGovern, Daniel F., Montpelier, Vt. Detachable saw tooth. 1,690,544; Nov. 6.

McNamara, Michael W. P., Chicago, Ill. Fishplate. 1,690,744; Nov. 6.

McNicol, D. E., Pottery Co. of W. Va., The. (See Cronin, John A., assignor.)

McQuay-Norris Manufacturing Company. (See Mummert, Arden J., assignor.)

Meecano Company. (See Hornby, Frank, assignor.)

Medholdt, Louis T. (See Vivarttas, W. O., and Medholdt.)

Meisenburg, Kurt. (See Schulemann, W., and Meisenburg.)

Meletio, William A. (See Gruendler, G. J., and Meletio.)

Merrick Scale Mfg. Company. (See Hebden, Frank S., assignor.)

Merritt, Charles H., Bellingham, Wash. Stringed musical instrument. 1,690,870; Nov. 6.

Merrow Machine Company, The. (See Washburn, John M., assignor.)

Metallbank und Metallurgische Gesellschaft Aktiengesellschaft. (See Hubmann, Otto, assignor.)

Metallwerk Max Brose & Co. (See Kruschitzki, Johann, assignor.)

Metzger, Richard. (See Holzach, K., and Metzger.)

Meyer, Frank H. (See Klaus, F. R., and Meyer.)

Meyer, Henry C. A., assignor to The Bartlett Hayward Company, Baltimore, Md. Motor-control mechanism. 1,690,646; Nov. 6.

Meyerhuber, William. (See Jandus, H. S., and Meyerhuber.)

Meyerson, Max, New York, N. Y. Temporary binder. 1,690,871; Nov. 6.

Michaelis, Joseph W., Toledo, Ohio. Brush-making machine. 1,690,420; Nov. 6.

Mickelson, Ole, Hoquiam, Wash. Choker hook. 1,690,745; Nov. 6.

Mieg, Walter, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Anthraquinone vat dyestuff. 1,690,236; Nov. 6.

Mieg, Walter, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Anthraquinone vat dyestuff. 1,690,306; Nov. 6.

Mieg, Walter, Vohwinkel, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Anthraquinone vat dyestuff. 1,690,307; Nov. 6.

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Projection system for color motion pictures. 1,690,589; Nov. 6.

Mikas, Mike P. (See Steiner, J. C., and Mikas.)

Mikesell, Herbert S. (See Teetor, H. C., and Mikesell.)

Miller, Allen A., Chicago, Ill. Window ventilator. 1,690,830; Nov. 6.

Miller, Benjamin F. (See Elston, Frederick R., assignor.)

Miller, Charles, Long Island City, N. Y. Shoe. 1,690,690; Nov. 6.

Miller, Charles, Long Island City, N. Y. Pattern-displaying device. 1,690,691; Nov. 6.

Miller, Frederic H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission-line device. 1,690,200; Nov. 6.

Mills, B. A., Keystone, W. Va. Automatic liner safety. 1,690,173; Nov. 6.

Mills, Chester B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyrocompass transmitter. 1,690,545; Nov. 6.

Mine and Smelter Supply Company, The. (See Willard, Clarence G., assignor.)

Minnich, Walter, Montreux, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Esters of cholesterol with unsaturated acids. 1,690,647; Nov. 6.
Mitchell, John E., and D. Parks, St. Louis, Mo. Cotton-recleaning machine. 1,690,375; Nov. 6.
Mitchinson, Sydney G., Massillon, Ohio. Reversing-gearing mechanism for straw stackers. 1,690,746; Nov. 6.
Mitteldeutsche Stahlwerke Aktiengesellschaft. (See Friedrich, Carl, assignor.)
Mock, Frank C., assignor to Stromberg Research Corporation, Chicago, Ill. Controller for vehicle springs. 1,690,546; Nov. 6.
Mock, Frank C., assignor to Stromberg Research Corporation, Chicago, Ill. Shock absorber. 1,690,692; Nov. 6.
Molby, Walter D., Baldwin City, Kans. Inclined revolving teeter. 1,690,590; Nov. 6.
Moline Implement Company. (See Corbin, Henry P., assignor.)
Monte Lloyd Corporation. (See Pratt, Norman F., assignor.)
Montgomery, Robert H., executor. (See Braddock, Edward L.)
Moody, Lewis F., Philadelphia, Pa. Hydraulic turbine 1,690,237; Nov. 6.
Moody, Perrin N., Gilliam, Mo. Cultivator. 1,690,700; Nov. 6.
Moore, Charles R., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound radiator. 1,690,421; Nov. 6.
Morgan Construction Company. (See George, Jerome R., assignor.)
Morgan, David W. R., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Condenser. 1,690,747; Nov. 6.
Morgan, John R. (See Jandus, H. S., and Morgan.)
Morgan, Joseph, Franklin, Tex. Adjustable plow. 1,690,238; Nov. 6.
Moriarty, Joseph J. (See Johnson, A. J., and Moriarty.)
Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)
Morrison, Alexander G. (See Hood, Frank E. and J. E., and Morrison.)
Morrison, Montford, New York, N. Y. X-ray apparatus. 1,690,906; Nov. 6.
Mosterts, Ferdinand W., Philadelphia, Pa. Pile fabric. 1,690,939; Nov. 6.
Motor Improvements, Inc. (See Ward, Marshall H., assignor.)
Mougey, Wilbur E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling conductor. 1,690,201; Nov. 6.
Moyer, Fredellia H., Canton, Ohio. Slag and gas eliminator for molten steel. 1,690,748; Nov. 6.
Moyer, Fredellia H., Canton, Ohio. Steel-pouring device. 1,690,749; Nov. 6.
Moyer, Fredellia H., Canton, Ohio. Pouring steel. 1,690,750; Nov. 6.
Muenzer, Frank X., assignor to The Multiplex Concrete Machinery Company, Elmore, Ohio. Block machine. 1,690,422; Nov. 6.
Multiplex Concrete Machinery Company, The. (See Muenzer, Frank X., assignor.)
Mummert, Arden J., University City, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston ring. 1,690,423; Nov. 6.
Myers, George F., New York, N. Y. Submarine. 1,690,547; Nov. 6.
Nair, Archie F. and H. A., Glendale, Calif. Bomber attachment for aeroplanes with gas bombs. 1,690,791; Nov. 6.
Nair, Hobert A. (See Nair, Archie F. and H. A.)
National Air Filter Company. (See Birkholz, Hans E., assignor.)
National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)
National Gauge & Equipment Company. (See Cheney, Moses E., assignor.)
National Gauge & Equipment Company. (See Gelatt, Philo M., assignor.)
National Indian Rubber Company. (See Huestis, Thomas B., assignor.)
National Paper Products Company. (See Brisbois, Nicholas M., assignor.)
National Refrigeration Company. (See Dennison, F. E., and Ireland, assignors.)
National Rubber Machinery Company. (See De Mattia, Barthold, assignor.)
National Rubber Machinery Company. (See De Mattia, Peter, assignor.)
National Safety Appliance Company. (See Folker, Howard S., assignor.)
National Vehicle Rim Corporation. (See Jones, William A., assignor.)
National Water Lift Company. (See Fairchild, Roland J., assignor.)
Nebraska Printing Company. (See Gearing, Harry, assignor.)
Needham, Charles E., Allentown, Pa., assignor to Bethlehem Foundry & Machine Company. Grinding mill. 1,690,125; Nov. 6.
Nelson, Claude A. (See Thomas, T. H., and Nelson.)
Nelson, Gustave C., assignor to The Borg & Beck Company, Moline, Ill. Vacuum-feed system. 1,690,202; Nov. 6.
Nelson, Herman O., Doty, Wash. Transporter. 1,690,454; Nov. 6.
Nelson, Hubert E. (See Brown, C. R., and Nelson.)
Nelson, Nels T., Attleboro, assignor to J. F. Sturdy's Sons Company, Attleboro Falls, Mass. Bracelet extension device. 1,690,498; Nov. 6.
Nelthorpe, Henry F., Los Angeles, Calif. Buoyant soap dish. 1,690,591; Nov. 6.
Neptune, Richard C., Indianapolis, Ind. Roof. 1,690,792; Nov. 6.
Newark Noveloid Company. (See Smith, Joseph J., assignor.)
New England Butt Company. (See Haggerty, Charles, assignor.)
New Jersey Wire Cloth Company, The. (See Beers, Louis G., assignor.)
New Jersey Zinc Company, The. (See Breyer, F. G., and Farber, assignors.)
Newland, Wilford H., Inglewood, Calif. Adjustable pipe-bending tool. 1,690,592; Nov. 6.
Newman, Thomas J., assignor to The Superior Switchboard & Devices Company, Canton, Ohio. Meter mounting. 1,690,174; Nov. 6.
Nickerson, Henry E., Bridgeport, Conn., assignor, by mesne assignments, to Weber Electric Company, Schenectady, N. Y. Lamp-socket-securing means for electric fixtures. 1,690,940; Nov. 6.
Nickerson, Henry E., Bridgeport, Conn., assignor to The Weber Electric Company, Schenectady, N. Y. Lamp-socket-securing means for electric fixtures. 1,690,941; Nov. 6.
Nicol, John M., Mill Valley, Calif. Plow and jet elevator dredge. 1,690,239; Nov. 6.
Nielebock, Walter, Nowawes, near Berlin, Germany. Reciprocating engine. 1,690,126; Nov. 6.
Nielsen, Karl K., Chicago, Ill. Candle socket. 1,690,693; Nov. 6.
Nieto, Manuel, Brooklyn, N. Y., assignor of one-fourth to F. Lopez, New York, N. Y. Electric heating and surface-finishing device. 1,690,831; Nov. 6.
Niks, Nickolas J., Chillicothe, Ohio. Paper-making machine. 1,690,203; Nov. 6.
Niles-Bement-Pond Company. (See Shelhouse, Maurice W., assignor.)
Nissen, Harry P., Oakland, Calif. Sleeve holder. 1,690,694; Nov. 6.
Nivois, Victor, New York, N. Y. Case for cigarette packages. 1,690,308; Nov. 6.
Nolte, Karl, Dortmund, Germany. Connecting piece for iron sheet piling. 1,690,499; Nov. 6.
Norcross, Thomas, Erdington, England, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Manufacturing tires. 1,690,240; Nov. 6.
Northam Warren Corporation. (See Haik, Louis, assignor.)
Northrop, Jonas, assignor, by mesne assignments, to Draper Corporation, Hopedale, Mass. Let-off mechanism. 1,690,424; Nov. 6.
Norton, Bertram, Claverley, near Wolverhampton, England. Apparatus for retarding wagons, tubs, and the like. 1,690,695; Nov. 6.
Norton, Charles H., assignor to Norton Company, Worcester, Mass. End-thrust bearing for grinding-wheel spindles. 1,690,425; Nov. 6.
Norton Company. (See Norton, Charles H., assignor.)
Norwood, Harry G., Baltimore, Md., assignor to A. D. T. Libby, Newark, N. J. Rubber heel. 1,690,696; Nov. 6.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Variable-feed mechanism. 1,691,026; Nov. 6.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Envelope machine. 1,691,027; Nov. 6.
Nye, Pearl R., Chicago, Ill. Window. 1,690,204; Nov. 6.
O'Brien, Edwin K., Charlottesville, Va. Plastic preparation. 1,690,648; Nov. 6.
Odell, Edwin, Central City, Nebr. Obstetrical instrument. 1,690,942; Nov. 6.
O'Hern, Arthur T. (See O'Hern, Thomas, assignor.)
O'Hern, Thomas, assignor to A. T. O'Hern, Kew Gardens, N. Y. Nitroglycerin dynamite. 1,690,872; Nov. 6.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Oliver, Norman E., assignor to Hermetite Corporation, New York, N. Y. Coating of pervious material. 1,690,426; Nov. 6.
Oliver, Norman E., assignor to Hermetite Corporation, New York, N. Y. Coating of pervious material. 1,690,427; Nov. 6.
O'Neil, James H., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Packaging device for metal sheets. 1,690,873; Nov. 6.
O'Neill, Henry W., Elmhurst, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,690,241; Nov. 6.
Opitz, John L., Clarinda, Iowa. Steering mechanism for tractors. 1,690,548; Nov. 6.
Oppenheim, Mose, Pueblo, Colo. Commode. 1,690,793; Nov. 6.
Orange, Fred, Ottawa, Ontario, Canada. Stair rug. 1,690,991; Nov. 6.
Orem, William H. (See Genese, David, assignor.)
Orr, Thomas H., Okmulgee, Okla. Babbitting machine. 1,690,992; Nov. 6.





Osborne Credit Machine Company, The. (See Osborne, Wiley W., assignor.)
Osborne, Wiley W., assignor to The Osborne Credit Machine Company, Cincinnati, Ohio. Issuing and recording trade check credit machine. 1,690,874; Nov. 6.
Osborne, Wiley W., assignor to The Osborne Credit Machine Company, Cincinnati, Ohio. Trade-check credit machine. 1,690,875; Nov. 6.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Furnace. 1,960,428; Nov. 6.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Feeding mechanism. 1,690,429; Nov. 6.
Owen, Frederick C., Fayetteville, N. C. Variable-voltage transformer for electric-arc cutting and welding apparatus. 1,690,943; Nov. 6.
Owen, Ira J., Grand Rapids, Mich. Combination paper-cutting tool, rule, and drafting and measuring instrument. 1,690,832; Nov. 6.
Owen, Le Roy R., and O. E. Whiteman, South Bend, Ind. Screed chair. 1,690,993; Nov. 6.
Owen, William H., Wimbledon, England. Air preheater for furnaces. 1,690,242; Nov. 6.
Owens Bottle Company, The. (See Epstein, Meyer M., assignor.)
Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)
Pacific-Southwest Trust & Savings Bank, trustee. (See Curtis, Thomas S., assignor.)
Page, Algert E., Brooklyn, assignor to Scott and Williams, Inc., New York, N. Y. Circular-knitting machine. 1,691,025; Nov. 6.
Paige, Harold S. (See Pieh, Henry E., assignor.)
Paley, Herman, New York, N. Y. Piano construction. 1,690,549; Nov. 6.
Palmu, Carl, Duluth, Minn. Mortising machine. 1,690,697; Nov. 6.
Parker, Guy E. (See Seaholm, E. W., Parker, and Schadt.)
Parker Pen Company, The. (See Guyot, Walter, assignor.)
Parks, Dennis. (See Mitchell, J. E., and Parks.)
Parks, John L., jr., administrator. (See Parks, Joseph L.)
Parks, Joseph L., deceased; J. L. Parks, jr., administrator, Henderson, N. C. Cotton chopper. 1,690,751; Nov. 6.
Parrett, Dent, Chicago Heights, Ill. Two-wheeled tractor for cultivators and other machines, and constructing same. 1,690,205; Nov. 6.
Parrish, William C., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Apparatus for controlling cracking stills. 1,690,243; Nov. 6.
Parsons, Winslow R., San Diego, Calif. Device for adjusting casement windows. 1,690,127; Nov. 6.
Pasternack, Richard, assignor to Charles Pfizer & Company, Brooklyn, N. Y. Preparing cinchophen. 1,690,128; Nov. 6.
Paterson, Russell S., Mobile, Ala. Preparing tannic-acid compositions. 1,690,175; Nov. 6.
Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Searchlight safety mechanism. 1,690,550; Nov. 6.
Paulding, John I., Inc. (See Johnson, Gustaf A. and F. E., assignors.)
Paulin, Josua G., Stockholm, Sweden. Apparatus for measuring variable forces. 1,690,455; Nov. 6.
Payne, Caleb, assignor to Gypsum Engineering and Manufacturing Co., Chicago, Ill. Machine for mixing gypsum stucco. 1,690,176; Nov. 6.
Payne, Harold T., Sacramento, and F. R. Young, Quincy, Calif. Binder post. 1,690,456; Nov. 6.
Pearmain, William J., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch. 1,690,698; Nov. 6.
Peerless Products Company. (See Gedge, Edna R., assignor.)
Pelletier, John and M., New York, N. Y. Picture frame. Des. 76,820; Nov. 6.
Pelletier, Michael. (See Pelletier, John and M.)
Pelton Water Wheel Co., The. (See Karnasch, L. M., and Hutchinson, assignors.)
Pennock, George A., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for performing pressing operations. 1,690,457; Nov. 6.
Perfection Package Sealer Company. (See Uttz, William A., sr., assignor.)
Periale, John A., Astoria, assignor to The Periometer Co., Inc., Astoria, Long Island, N. Y. Automatic indicator. 1,690,244; Nov. 6.
Periometer Co., The. (See Periale, John A., assignor.)
Perry, Napoleon J., assignor to May Hosiery Mills, Nashville, Tenn. Dial-cam-controlling mechanism. 1,690,593; Nov. 6.
Peters, Edgar G., Cleveland, Ohio. Battery tester. 1,690,500; Nov. 6.
Petersen, Carl M., assignor to Harvey Hubbell, Incorporated, Bridgeport, Conn. Switch movement. 1,690,430; Nov. 6.
Petersen, Heinrich A. W., Gary, Ind. Bilge suction strainer for ships. 1,690,700; Nov. 6.
Peterson, Andrew F., Oakland, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Sound producer. 1,690,177; Nov. 6.
Peterson, Ernst, Rockford, Ill. Cigarette and match dispenser. 1,690,699; Nov. 6.
Peterson, George H., Orange, Calif. Lawn-trimming tool. 1,690,944; Nov. 6.
Pfeiffer, Alice L. (See Bagley, James, assignor.)
Pfeiffer-Braun, Jakob, Laupen, near Bern, Switzerland. Lacing fastening. 1,690,309; Nov. 6.
Pfizer, Charles, & Company. (See Pasternack, Richard, assignor.)
Phelan, Robert E., and S. P. Lowe, assignors to R. H. Channing, jr., agent, Denver, Colo. Flotation concentration. 1,690,907; Nov. 6.
Philadelphia Drying Machinery Company, The. (See Greiner, William P., assignor.)
Philadelphia Drying Machinery Company, The. (See Sibson, W. W., and Wigglesworth, assignors.)
Philadelphia Drying Machinery Company, The. (See Wigglesworth, Harry H., assignor.)
Phillips, William S., Cameron, W. Va. Table and chair structure. 1,690,594; Nov. 6.
Pieh, Henry E., assignor of one-half to H. S. Paige, Williston, N. Dak. Battery terminal. 1,690,810; Nov. 6.
Pierce, Harry, Brooklyn, N. Y., assignor, by mesne assignments, to The American Laundry Machinery Company, Cincinnati, Ohio. Power-operated ironing and pressing machine. 1,690,431; Nov. 6.
Pittsburgh Steel Company. (See Bull, George E., assignor.)
Pittsburgh Taximeter Company. (See Richert, Paul, assignor.)
Pleger, John J., Chicago, Ill. Book-back-gluing machine. 1,690,945; Nov. 6.
Pohrt, Henry O., assignor to A C Spark Plug Company, Flint, Mich. Coating machine. 1,690,344; Nov. 6.
Polink, Joseph. (See Wear, Charles, assignor.)
Poole, Lora E., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-testing apparatus. 1,690,345; Nov. 6.
Porter, Charles R., Rome, Ga. Electric range. 1,690,946; Nov. 6.
Posternak, Swigel, Chene-Bougeries, near Geneva, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Phosphorus compounds from animal proteids and manufacture thereof. 1,690,752; Nov. 6.
Potts, Charles H., Westminster, London, assignor to Vickers Limited, Westminster, England. Heat exchanger. 1,690,501; Nov. 6.
Powell, Dalton U., Woodefield, Ohio, assignor of one-third to S. K. Frank and one-third to R. L. Davis, Wheeling, W. Va. Electric heater. 1,690,994; Nov. 6.
Powell, Edward R., assignor, bymesne assignments, to H. G. Craig, St. Louis, Mo. Pressure gauge. 1,690,245; Nov. 6.
Pratt, Edward, Taft, Calif. Power-transmitting unit for well rigs. 1,690,376; Nov. 6.
Pratt, Norman F., Jacksonville, assignor to Monte Lloyd Corporation, Miami, Fla. Anorectal dilator. 1,690,995; Nov. 6.
Pratt & Whitney Company. (See Thacher, John J., assignor.)
Prentiss, Louis W., Fort Myer, Va. Separable button. 1,690,129; Nov. 6.
Preston, Frederick W., assignor to Keystone Roofing Manufacturing Company, York, Pa. Machine for forming shingles. 1,690,908; Nov. 6.
Price, Charles S., Bethlehem, Pa., assignor to L. F. Grammes & Sons, Inc. Making boxes. 1,690,833; Nov. 6.
Price, John V., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 76,821; Nov. 6.
Price, John V., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 76,822; Nov. 6.
Prosperity Company Inc., The. (See Steele, Harry A., assignor.)
Protane Corporation (1926), The. (See Kelley, John M., assignor.)
Public Service Cup Company. (See Smith, Charles F., assignor.)
Pugh, Emerson, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Welding parts. 1,690,377; Nov. 6.
Pungs, Wilhelm, Ludwigshafen-on-the-Rhine, and M. Jahrstorfer, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Improving the properties of Montan wax. 1,690,876; Nov. 6.
Purington, Ellison S. (See Chaffee, E. L., and Purington.)
Quigley, Edward J., Newark, N. J. Shirt. 1,690,432; Nov. 6.
R. C. Products Company, The. (See Shimek, John W., assignor.)
Racine Electric Company. (See Van Bree, Hubert, assignor.)
Radford, Robert L., Biltmore, assignor of one-third to H. B. Leavitt, Asheville, N. C. Adjustable window screen. 1,690,649; Nov. 6.
Radio Condenser Company. (See Gilling, Preston E., assignor.)
Radio Corporation of America. (See Round, Henry J., assignor.)
Radio Patents Corporation. (See Thilo, Günther, assignor.)
Railroad Supply Company, The. (See Rhodes, Arvid, assignor.)

Ramsay, William A., Honolulu, Hawaii. Conveyer for sugar-cane mills. 1,690,877; Nov. 6.

Ratkowski, Thomas, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Replaceable-point excavator tooth. 1,690,834; Nov. 6.

Ratkowski, Thomas, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Excavator lip with integral teeth. 1,690,835; Nov. 6.

Rauhofer, John, Bethlehem, Pa. Wash-line-supporting pole. 1,690,947; Nov. 6.

Rawlings, John J., South Kensington, London, assignor of one-half to The Rawlplug Company Limited, London, England. Tubular fibrous wall plug. 1,690,909; Nov. 6.

Rawlplug Company, Limited, The. (See Rawlings, John J., assignor.)

Ray, Eugene J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. 1,690,246; Nov. 6.

Raymond, Gwynne, assignor to Black, Sivalls & Bryson Manufacturing Company, Kansas City, Mo. Overhead steel-plate conveyer mechanism. 1,690,502; Nov. 6.

Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. 1,690,206; Nov. 6.

Redfield, Snowden B., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. 1,690,836; Nov. 6.

Reed, Frank C., Nehalen, Oreg. Gasoline strainer and lint catcher. 1,690,207; Nov. 6.

Reed, Fred P., C. F. Strohm, and C. J. Dillwith, Stockton, Calif. Device for the application of electrotherapy. 1,690,551; Nov. 6.

Reeves Manufacturing Company, The. (See Wendle, V. P., and Hunker, assignors.)

Reeves, Percy, Chicago, Ill. Container. 1,690,178; Nov. 6.

Regan Safety Devices Company, The. (See Rosenzweig, Fred M., assignor.)

Regan, William J., and E. George, jr., assignors to The McConway & Torley Company, Pittsburgh, Pa. Draft appliance for railway cars. 1,690,650; Nov. 6.

Rehlé, Ignaz, Frankfort-on-the-Main, Germany. Insertable arch support. 1,690,837; Nov. 6.

Reich, Frederick, Elizabeth, N. J. Toothbrush holder. 1,690,311; Nov. 6.

Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Heavy-duty vehicle. 1,690,247; Nov. 6.

Reid, Willard. (See Shepherd, Charles B., assignor.)

Reifsnyder, James D., Flushing, assignor to Tulip Container Corporation, College Point, N. Y. Container closure. 1,690,701; Nov. 6.

Reitz, Charles J. (See Rote, Morgan M., assignor.)

Remmes, Mathias M. (See Wiggin, J. D., and Remmes.)

Remy, Benjamin P., Indianapolis, Ind. Electric generator. 1,690,248; Nov. 6.

Renneburg, Edw., & Sons Co. (See Renneburg, Frederick P., assignor.)

Renneburg, Frederick P., assignor to Edw. Renneburg & Sons Co., Baltimore, Md. Combination cooker drier. 1,690,753; Nov. 6.

Republic Brass Company, The. (See Bloch, Leon, assignor.)

Reschke, William F., Wichita, Kans. Grain-receiving attachment for combined harvesters and thrashers. 1,690,794; Nov. 6.

Reutter, Philip A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Vanity case. 1,690,552; Nov. 6.

Reynolds, Ernest L., Tulsa, Okla. Oil burner. 1,690,240; Nov. 6.

Rhode Island Lace Works, Inc. (See Price, John V., assignor.)

Rhode Island Warp Stop Equipment Company. (See Bruneau, Hudger, assignor.)

Rhodes, Arvid, assignor to The Railroad Supply Company, Chicago, Ill. Shearing machine. 1,690,503; Nov. 6.

Richards, Franklin B. (See Grant, F., Richards, and Wetherbee.)

Richardson, Bayard E., Grand Rapids, Mich. Desk top. 1,690,130; Nov. 6.

Richert, Paul, New York, N. Y., assignor to Pittsburgh Taximeter Company. Recording meter. 1,691,017; Nov. 6.

Richmond, Vincent C., and G. H. Scott, Cardington, England. Airship. 1,690,878; Nov. 6.

Rickey, Loren W., assignor of one-half to W. O. Kerrick, Santa Cruz, Calif. Drying-frame support. 1,690,458; Nov. 6.

Ricks, Fred, and R. B. Woodcock, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe-pressing machine. 1,690,433; Nov. 6.

Ridderstrom, Andrew R., Nahant, assignor to Beacon Folding Machine Company, Lynn, Mass. Skiving machine. 1,690,595; Nov. 6.

Rinck, Franklin B., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Treatment of ferrous metals to produce a protective coating thereon. 1,690,378; Nov. 6.

Riser, Charles, et al. (See Tuñez, Amable S., assignor.)

Roberts, Gerald I. (See McAfee, A. M., and Roberts.)

Robinson, Keith A. (See Wallis, H. C., and Robinson.)

Robison, Floyd W., Detroit, Mich. Food product in form of dry powder and making the same. 1,690,131; Nov. 6.

Robson, Arthur D. (See Hirsh, J. E., and Robson.)

Rockelman, Louis, Salt Lake City, Utah. Boiler-pipe cleaner. 1,690,434; Nov. 6.

Rorabeck, Claude, Chicago Heights, assignor to American Manganese Steel Company, Chicago, Ill. Inside and outside link for conveyer chains. 1,690,838; Nov. 6.

Rosan, Sterling D., Boston, Mass. Golf-club grip. 1,690,312; Nov. 6.

Rosenthal, Aaron E., assignor to Beacon Steel Furniture Co., Chicago, Ill. Removable foot for a supporting leg. 1,690,754; Nov. 6.

Rosenthal, Louis A., Louisville, Ky. Overalls. 1,690,313; Nov. 6.

Rosenzweig, Fred M., Niagara Falls, assignor to The Regan Safety Device Company, Inc., New York, N. Y. Speed-control mechanism. 1,690,132; Nov. 6.

Ross, Clyde, Tarrytown, N. Y., and J. MacQuaid, assignors to General Motors Corporation, Detroit, Mich. Template for striping bodies. 1,690,346; Nov. 6.

Ross, Donald W., and J. M. Lamble, Washington, Pa. Making ceramic articles. 1,690,208; Nov. 6.

Rote, Morgan M., assignor to C. J. Reitz, Sunbury, Pa. Hot-air register. 1,690,948; Nov. 6.

Rotella, Louis, Montreal, Quebec, Canada. Spark plug. 1,690,702; Nov. 6.

Roth, Edward N., assignor to Roth Manufacturing Company, Chicago, Ill. Flexible pipe joint. 1,690,839; Nov. 6.

Roth Manufacturing Company. (See Roth, Edward N., assignor.)

Round, Henry J., London, England, assignor to Radio Corporation of America. Telephone and the like. 1,690,840; Nov. 6.

Rubber Latex Research Corporation. (See Wescott, William B., assignor.)

Rüdenberg, Reinhold. Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Arrangement or system for operating mechanical rectifiers for alternating current. 1,690,553; Nov. 6.

Rufle Fred J., Lander County, Nev. Animal trap. 1,690,755; Nov. 6.

Rundqvist, Thore R. E., Claremont, N. H., assignor to Sullivan Machinery Company. Drill mechanism. 1,690,504; Nov. 6.

Ruppel, Frederick C., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Radiator ornament. Des. 76,823; Nov. 6.

Rushmore, Samuel W., Plainfield, N. J. Engine-cooling system. 1,690,703; Nov. 6.

Rushmore, Samuel W., Plainfield, N. J. Cooling system. 1,690,841; Nov. 6.

Russell, William A., Yonkers, N. Y. Air valve. 1,690,554; Nov. 6.

Ryan, F. J., & Company. (See Beach, George F., assignor.)

Sacco Albanèse, Giuseppe, Paris, France. Apparatus for measuring the rate of flow of fluids. 1,690,949; Nov. 6.

Sadtler, Helena S., Erdenheim, Pa. Decoration for ornamenting fibrous and similar surfaces and making and applying the same. 1,690,179; Nov. 6.

Sagramoso, Guido, Milan, Italy. Electric furnace. 1,690,795; Nov. 6.

St. Clair, Oliver, Indianapolis, Ind., and B. R. Watson, Snohomish, Wash., assignors to E. C. Atkins & Company, Indianapolis, Ind. Saw jointer. 1,690,707; Nov. 6.

Saks, Jack I. (See Silverstang, Jacob, assignor.)

Salas, Mariano, Canlubang, Laguna, P. I. Mower. 1,690,950; Nov. 6.

Sanna, Alfred P., New York, N. Y. Inlaid street directional and instruction sign. 1,690,842; Nov. 6.

Sasnett, Edward C., Washington, D. C. Automatic train-control system. 1,690,459; Nov. 6.

Sasnett, Edward C., Washington, D. C. Railway signaling. 1,690,460; Nov. 6.

Sasnett, Edward C., Washington, D. C. Automatic train-control system. 1,690,505; Nov. 6.

Sasnett, Edward C., Washington, D. C. Railway signaling. 1,690,506; Nov. 6.

Saunders, Alfred W., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Radio signaling system. 1,690,250; Nov. 6.

Savage, Llewellyn T., Boston, assignor to J. M. and L. T. Keyes, Concord, Mass. Outboard-engine bracket. 1,690,435; Nov. 6.

Schadt, Ewald K. (See Seaholm, E. W., Parker, and Schadt.)

Schaffer, Walter, Berlin, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Modulation-indicating arrangement. 1,690,704; Nov. 6.

Schaffer, Werner, Laupen, near Bern, assignor to Chocolat Tobler Holding Co. Aktiengesellschaft, Schaffhausen, Switzerland. Line-printing typewriter or the like machine. 1,690,879; Nov. 6.

Schedwin, Emil F., Kiruna, Sweden. Apparatus for cutting cheese or the like. 1,690,951; Nov. 6.

Schick, Jacob, Stamford, Conn. Shaving implement. 1,690,133; Nov. 6.

Schlesinger, Louis, and H. E. Heine, assignors to Bradley Washfountain Company, Milwaukee, Wis. Valve. 1,690,251; Nov. 6.





Schmidt, Benjamin F., assignor to Gillette Schmidt Corporation, Los Angeles, Calif. Hand-operated gear-shift mechanism. 1,690,180; Nov. 6.

Schmidt, John C., Chicago, and W. Eichholz, Cicero, Ill. Doorcheck. 1,690,952; Nov. 6.

Schmidt, Martin A., Lyndhurst, N. J., and C. E. Munderlich, Brooklyn, N. Y. Erasing device. 1,690,184; Nov. 6.

Schmidt, Otto T. K., Altenfeld, Germany. Vacuum-jacketed vessel. 1,690,880; Nov. 6.

Schmolze, Mildred C., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 76,824; Nov. 6.

Schön, Ludwig, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Alternating-current induction motor. 1,690,953; Nov. 6.

Schubode, Albert, Brunswick, assignor to Firma Hannovers-Kassen-Gesellschaft m. b. H., Peine, Hannover, Germany. Calculating machine. 1,690,651; Nov. 6.

Schulemann, Werner, Vohwinkel, and K. Meisenburg, Elberfeld, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Pharmaceutical compound. 1,690,796; Nov. 6.

Schulenberg, William L., Dunkirk, N. Y. Apparatus for heat treating articles. 1,690,555; Nov. 6.

Schumacher, Ernest A., and H. E. Wessling, Cincinnati, Ohio. Cultivator. 1,690,252; Nov. 6.

Schumacher, John, Los Angeles, Calif. Reenforced-edge plaster board. 1,690,253; Nov. 6.

Schwab, Marion, San Francisco, Calif. Convertible chair and bed. 1,690,797; Nov. 6.

Scott and Williams, Inc. (See Page, Albert E., assignor.)

Scott, Charles A., Rome, assignor, by mesne assignments, to General Cable Corporation, New York, N. Y. Wheel guard. 1,691,018; Nov. 6.

Scott, George H. (See Richmond, V. C., and Scott.)

Scott, Irving G., and M. C. Fox, New York, N. Y. Flowerpot holder. Des. 76,825; Nov. 6.

Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)

Scovill Manufacturing Company. (See Coryell, Charles N., assignor.)

Scovill Manufacturing Company. (See McAtree, John L., assignor.)

Scovill Manufacturing Company. (See Reutter, Philip A., assignor.)

Scranton Lace Company, The. (See Erhard, Gustave F., assignor.)

Seaholm, Ernest W., Highland Park, and G. E. Parker and E. K. Schadt, assignors to General Motors Corporation, Detroit, Mich. Combined tire carrier and lamp device for automobiles. 1,690,347; Nov. 6.

Secretary of War of the United States of America. (See Brayton, Harold M., assignor.)

Sederholm, John E., assignor to American Hoist & Derrick Co., St. Paul, Minn. Hydraulic hoist. 1,690,181; Nov. 6.

Seeburg, Justus P., Chicago, Ill. Organ cabinet. Des. 76,826; Nov. 6.

Seeksamp, Herman D., St. Louis, Mo. Electrically-heated spark plug. 1,690,135; Nov. 6.

Selberling Rubber Company. (See Walter, H. A., and Crossan, assignors.)

Seitz, John F., Hollywood, Calif. Making motion-picture films. Re17,125; Nov. 6.

Service Bureau Inc. (See Dawson, George H., assignor.)

Sesamee Company, The. (See Hatch, Alexander G., assignor.)

Seydel, Herman, Jersey City, N. J. Benzoic-acid salt of amino benzoic esters. 1,690,705; Nov. 6.

Seyler, Carl P., Pittsburgh, Pa. Insulator pin. 1,690,596; Nov. 6.

Seyler, Carl P., Pittsburgh, Pa. Anchor device. 1,690,597; Nov. 6.

Seville Studios, Incorporated. (See Terr, Joseph, assignor.)

Shapiro, Harry D., Newburgh, N. Y. Flower box. 1,690,910; Nov. 6.

Shapiro, Joseph, assignor to Maryland Baking Company, Baltimore, Md. Ice-cream cone. 1,690,556; Nov. 6.

Sharpsville Roller Works Co. (See Fagan, Charles D., assignor.)

Shelhouse, Maurice W., Hamilton, Ohio, assignor to Niles-Bement Pond Company, New York, N. Y. Work driver for car-wheel lathes. 1,690,593; Nov. 6.

Shenton, Francis. (See Zumbro, F. R. and Shenton.)

Shepherd, Charles B., New York, assignor to W. Reid, Scarsdale, N. Y. Rail anchor. 1,691,019; Nov. 6.

Sherman, John Q., Dayton, Ohio. Manifolding device. 1,690,798; Nov. 6.

Shimek, John W., Lakewood, assignor to The R. C. Products Company, Cleveland, Ohio. Retaining wall structure. 1,690,136; Nov. 6.

Shirk, Charles H., St. Paul, Minn. Water-circulating pump for motors. 1,690,911; Nov. 6.

Shulman, Isidor, Brooklyn, N. Y. Holding frame for drawings and the like. 1,690,137; Nov. 6.

Shwayder, Benjamin H., Denver, Colo. Traveling bag, suitcase, and the like. 1,690,507; Nov. 6.

Sibson, Walter W., and H. H. Wigglesworth, assignors to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,690,436; Nov. 6.

Sieben, Henry, New York, N. Y. Valve housing. 1,690,461; Nov. 6.

Siebs, Claude T., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Heater. 1,690,379; Nov. 6.

Siegrist, George R., Port Huron, Mich. Lubricating system. Re17,126; Nov. 6.

Siemens & Halske Aktiengesellschaft. (See Küpfmüller, Karl, assignor.)

Siemens & Halske Aktiengesellschaft, Wernerwerk. (See Tauchmann, Georg, assignor.)

Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, Reinhold, assignor.)

Siemens-Schuckertwerke Gesellschaft mit beschrankter Haftung. (See Rüdenberg, Reinhold, assignor.)

Silberstang, Jacob, assignor of one-half to J. I. Saks, New York, N. Y. Toothbrush. 1,690,706; Nov. 6.

Silent, Harold C., Larchmont, N. Y., assignor to American Telephone and Telegraph Company. Suppression of echoes and singing in four-wire circuits. 1,690,182; Nov. 6.

Simmons Company. (See Frederick, Clarence H., assignor.)

Simon, Franklin, & Company. (See Burns, Katherine E., assignor.)

Simon, Max. (See Heusner, K., and Simon.)

Simons, Franklin, & Company. (See Schmolze, Mildred C., assignor.)

Simplex Paper Box Co. (See Gross, Ralph A., assignor.)

Skidmore, Benjamin, jr., Chicago, Ill. Fluid-handling, suction, and pressure-creating apparatus. 1,690,254; Nov. 6.

Sladek, Victor R., Chicago, Ill. Apron. 1,690,138; Nov. 6.

Slater, Fred M. (See Bayles, L. C., and Slater.)

Sloper, Chester O. (See Butler, C. W., and Sloper, assignors.)

Sloper, Willard A. (See Butler, C. W., and Sloper.)

Small, Norman M., assignor to Frick Company, Waynesboro, Pa. Air-agitating-tube support for ice machines. 1,690,599; Nov. 6.

Smith, Charles F., assignor to Public Service Cup Company, Brooklyn, N. Y. Tube-severing machine. 1,690,209; Nov. 6.

Smith, David C., assignor, by mesne assignments, to Kadow Foundation, Incorporated, Toledo, Ohio. Mold for concrete blocks. 1,690,462; Nov. 6.

Smith, James J., Glenside, Pa. Picker-stick clamp. 1,690,843; Nov. 6.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,690,844; Nov. 6.

Smith, Joseph J., Newark, N. J., assignor to Newark Noveloid Company. Eyeglass frame. 1,690,139; Nov. 6.

Smith, Leathem D., Sturgeon Bay, Wis. Sand-dredging vessel. 1,690,880; Nov. 6.

Smith, Margaret J., assignor, by mesne assignments, to Western Safety Razor Company, Los Angeles, Calif. Safety razor. 1,690,557; Nov. 6.

Smith Separator Company. (See Dillon, Stephen V., assignor.)

Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet valve or the like. Des. 76,827; Nov. 6.

Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)

Snook, Homer C., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. System for converting sound waves into electrical waves. 1,690,255; Nov. 6.

Snow, Edward A., Reading, Mass. Reducing the viscosity of liquids. 1,690,799; Nov. 6.

Snyder, Jacob R., assignor to The Star Rebound Controller Company, Cleveland, Ohio. Shock absorber. 1,690,256; Nov. 6.

Snyder, Jacob R., assignor to The Star Rebound Controller Company, Cleveland, Ohio. Shock absorber. 1,690,257; Nov. 6.

Sonbar Company. (See Henry, George W., jr., assignor.)

Society of Chemical Industry in Basle. (See Hartmann, Max, assignor.)

Society of Chemical Industry in Basle. (See Minnich, Walter, assignor.)

Society of Chemical Industry in Basle. (See Posternak, Swigel, assignor.)

Sonora Phonograph Company. (See Wolff, Joseph, assignor.)

Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Apparatus for supplying molten glass to molds. 1,690,998; Nov. 6.

Spackman, Thomas F., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum-operated liquid-lifting device. 1,690,140; Nov. 6.

Speakman Company, The. (See Fraser, James, assignor.)

Spencer, Edmondson, Calcutta, British India. Extraction of cellulose or paper pulp from fibrous vegetable matter containing the same. 1,690,954; Nov. 6.

Sperr, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Gas-purification process and apparatus. 1,690,437; Nov. 6.

Sperr, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Recirculating process and apparatus for gas purification. 1,690,438; Nov. 6.

Sperry Gyroscope Company, The. (See House, Frank R., assignor.)

Sperry Gyroscope Company, The. (See Mills, Chester B., assignor.)

Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)

Splitdorf Electric Company of Wisconsin. (See Daun. C., and Keller, assignors.)
Spreen, Charles C., Detroit, Mich. Refrigeration. 1,690,314; Nov. 6.
Staley, Earl B., Seattle, Wash. Trailer hitch. 1,690,558; Nov. 6.
Stanciffe Well Screen & Manufacturing Company. (See Thomson, Harry, assignor.)
Standard Coin Wrappers, Inc. (See Francis, Joseph N., assignor.)
Standard Road Maintenance Company. (See Wheeler, Earl A., assignor.)
Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
Standard Securities Co. (See Gilchrist, William L., assignor.)
Standard Stoker Company. (See Hunt, Andrew M., assignor.)
Standard Stoker Company Inc., The. (See Lower, N. M., and Ketchpel, assignors.)
Standard Varnish Works. (See Hirsh, J. E., and Robson, assignors.)
Star Rebound Controller Company, The. (See Snyder, Jacob R., assignor.)
Staud, Cyril J. (See Gray, H. L., and Staud.)
Stebler, Fred, assignor to Stebler-Parker Co., Riverside, Calif. Fruit-counting apparatus. 1,690,756; Nov. 6.
Stebler-Parker Co. (See Stebler, Fred, assignor.)
Stedman, Charles C., Cleveland, assignor to The Central Tractor Company, Greenwich, Ohio. Tractor. 1,690,141; Nov. 6.
Steele, Harry A., assignor to The Prosperity Company Inc., Syracuse, N. Y. Spring-pad construction. 1,690,652; Nov. 6.
Steiner, Joseph C., Wauwatosa, and M. P. Mikas, Milwaukee, Wis. Brush. 1,690,757; Nov. 6.
Steinmayer, Alwin G., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Contact terminal. 1,690,845; Nov. 6.
Stephens, Rodway, Liquidator of The Pirbright Company, Limited (in liquidation). (See Lumsden, William G. G. P., assignor.)
Stern, Max. (See Jamerson, Gus A., assignor.)
Stevens, Arthur, Buffalo, N. Y. Drum-cleaning machine. 1,690,738; Nov. 6.
Stevens, Edward W., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Tool retainer. 1,690,559; Nov. 6.
Stewart, James A., assignor to American Can Company, New York, N. Y. Attaching keys to key opening cans. 1,690,800; Nov. 6.
Stewart, Vernon T. (See Ellis, C., and Stewart.)
Stewart-Warner Speedometer Corporation. (See Spackman, Thomas F., assignor.)
Stewart-Warner Speedometer Corporation. (See Wheeler, Leonard H., assignor.)
Stokely, Ray L., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,690,210; Nov. 6.
Stokes, Joseph, Trench, near Wellington, England. Straw or like cutting machine. 1,690,508; Nov. 6.
Stouffet, Gilbert, Corsicana, Tex. Pumping rig. 1,690,955; Nov. 6.
Stoughton, William D., Newark, Ohio. Test plug. 1,690,183; Nov. 6.
Stow, Murray E., Plainfield, N. J. Burial vault. 1,690,560; Nov. 6.
Strachan, Thomas H., assignor to Dayton Scale Company, Dayton, Ohio. Weighing scale. 1,690,258; Nov. 6.
Stradinger, Gottlob J., Colburn, Wis. Marine propulsion and power generator. 1,690,463; Nov. 6.
Strauss, Joseph B., Chicago, Ill. Pavement. 1,690,259; Nov. 6.
Strohm, Charles F. (See Reed, F. P., Strohm, and Dillwith.)
Stromberg Research Corporation. (See Mock, Frank C., assignor.)
Struthers, James A., assignor to Strutwear Knitting Company, Minneapolis, Minn. Stocking. Des. 76,828; Nov. 6.
Strutwear Knitting Company. (See Struthers, James A., assignor.)
Stuber, Adolph, and E. E. Underwood, assignors to Eastman Kodak Company, Rochester, N. Y. Motion-picture screen. 1,690,600; Nov. 6.
Stumm, Ross M., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission-line device. 1,690,184; Nov. 6.
Sturdy's, J. F., Sons Company. (See Nelson, Nels T., assignor.)
Sturton, Ellen, Mapperley, Nottingham, England. Button, stud, or the like. 1,690,561; Nov. 6.
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Machinery Company. (See Rundqvist, Thore R. E., assignor.)
Sullivan Machinery Company. (See Whinnen, Eugene, assignor.)
Sullivan, William S., assignor of forty-five per cent to J. G. Cumming, Washington, D. C. Hydro air compressor. 1,690,912; Nov. 6.
Superior Equipment Corporation. (See Thompson, Clarence W., assignor.)
Superior Switchboard & Devices Company, The. (See Newman, Thomas J., assignor.)
Surface Combustion Co. Incorporated, The. (See Hepburn, William M., assignor.)
Surface Combustion Co. Incorporated, The. (See Mazzocco, Dante V., assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Vehicle wheel. 1,690,999; Nov. 6.
Syntron Company. (See Clark, Emerson L., assignor.)
Szekely, Ernest, et al. (See Bolling, J. E., and Szekely, assignors.)
Tanner, Harry L., Brooklyn, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. Regulating dynamotor. 1,690,142; Nov. 6.
Tanners' Products Company. (See Bettison, Percy R., assignor.)
Tarver, William H., Pooler, Ga. Testing device. 1,690,653; Nov. 6.
Tauchmann, Georg, Berlin-Schoneberg, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone-meter unit. 1,690,464; Nov. 6.
Taylor, Arthur K., Baltimore, Md., assignor to The United States Printing and Lithograph Company. Method of and apparatus for registering cylindrical forms. 1,690,143; Nov. 6.
Taylor, Cyrus. (See Bergmann, C. N., and Taylor.)
Taylor, Elmer Z. (See Bergmann, C. N., and Taylor.)
Taylor, Frank F., assignor to The Frank F. Taylor Company, Norwood, Ohio. Child's vehicle. Des. 76,829; Nov. 6.
Taylor, Frank F., Company, The. (See Taylor, Frank F., assignor.)
Taylor, Herbert B., assignor to General Railway Signal Company, Rochester, N. Y. Governor transmission for train-control systems. 1,691,000; Nov. 6.
Tensdale, John W., St. Louis, Mo. Internal-combustion engine. 1,690,144; Nov. 6.
Teetor, Henry C., Hagerstown, and H. S. Mikesell, Richmond, Ind. Microtuner for pipe organs. 1,690,381; Nov. 6.
Terminal Engineering Company. (See Brinton, Willard C., assignor.)
Terr, Joseph, Cleveland Heights, assignor to Seville Studios, Incorporated, Cleveland, Ohio. Coffee table. Des. 76,830; Nov. 6.
Texas Company, The. (See Parrish, William C., assignor.)
Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Tailstock for automatic lathes. 1,690,601; Nov. 6.
Thilo, Günther, Friedenau, near Berlin, Germany, assignor to Radio Patents Corporation, New York, N. Y. Circuit for amplifying direct or alternating currents by vacuum tubes. 1,690,881; Nov. 6.
Thomas, George J., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake-applying mechanism. 1,690,382; Nov. 6.
Thomas, Laurence H. (See Kuhn, F., and Thomas.)
Thomas, Nathan A. (See Barna, J. W., and Thomas.)
Thomas, R., & Sons, Company, The. (See Marvin, Richard H., assignor.)
Thomas, Thomas H., Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock device. 1,690,316; Nov. 6.
Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Split reduction device. 1,690,315; Nov. 6.
Thompson, Clarance W., Wilmington, Del., assignor, by mesne assignments, to Superior Equipment Corporation. Shock absorber. Re17,127; Nov. 6.
Thomson, Harry, assignor to Stanciffe Well Screen & Manufacturing Company, Houston, Tex. Screw-type well packer. 1,690,383; Nov. 6.
Thoreson, Grace A. (See Thoreson, Martin L. and G. A.)
Thoreson, Martin L. and G. A., Los Angeles, Calif. Bottle protector. 1,690,509; Nov. 6.
Thorpe, Forest H. (See Anderson, F. E., and Thorpe.)
Titus, John E. (See Denz, E. A., Kelley, and Titus.)
Toelle, August. (See Wilson, C. E., and Toelle.)
Tokuhisa, Tokusaburo, Hollywood, Calif. Gear-shift indicator. 1,690,956; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,831; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,832; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,833; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,834; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,835; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,836; Nov. 6.





Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,837; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,838; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,839; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,840; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,841; Nov. 6.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,842; Nov. 6.
Tommins, Vincent P., Jersey City, N. J. Tensioning device for clotheslines. 1,690,957; Nov. 6.
Toomey, John F., New York, N. Y., and G. H. Duhnkrack, Jersey City, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,690,211; Nov. 6.
Topping, John A., Bronxville, N. Y. Roof. Des. 76,843; Nov. 6.
Trego Engineering Corporation. (See Trego, Frank H., assignor.)
Trego, Frank H., assignor Trego Engineering Corporation, New York, N. Y. Internal-combustion engine. 1,690,384; Nov. 6.
Trimm, Walter H., Park Ridge, Ill. Electric plug connecter. 1,690,759; Nov. 6.
Trivelli, Adriaan P. H., assignor to Eastman Kodak Company, Rochester, N. Y. Optical instrument. 1,690,602; Nov. 6.
Trotter, Arthur H., Syracuse, N. Y. Container for plastic material. 1,690,654; Nov. 6.
Trout, Oliver C., assignor, by mesne assignments, to Los Angeles Manufacturing Company, Inc., Los Angeles, Calif. Stovepipe-casing coupling. 1,690,562; Nov. 6.
Tulip Container Corporation. (See Reifsnyder, James D., assignor.)
Tuñez, Amable S., Easton, assignor of one-fourth to M. Levin, Philadelphia, Pa., one-fourth to H. Gordon, Beverly, N. J., one-fourth to C. Riser, Philadelphia, Pa., and one-fourth to himself. Mounting windows. 1,690,385; Nov. 6.
Tuñez, Amable S., Easton, assignor of one-fourth to M. Levin, Philadelphia, Pa., one-fourth to H. Gordon, Beverly, N. J., one-fourth to C. Riser, Philadelphia, Pa., and one-fourth to himself. Window. 1,690,386; Nov. 6.
Turner, Claude A., Sherbrook, Quebec, Canada. Rope or cord. 1,690,846; Nov. 6.
Twin Disc Clutch Company. (See Pearmain, William J., assignor.)
Twombly, Willard I., New York, N. Y., assignor, by mesne assignments, to The Wilcolater Company, Newark, N. J. Control mechanism. 1,690,847; Nov. 6.
Underwood Elliott Fisher Company. (See Barker, Benjamin F., assignor.)
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood, Ernest E. (See Stuber, A., and Underwood.)
Underwood, Western, assignor of one-half to H. H. Walker, Los Angeles, Calif. Globe-mounting ring. 1,690,563; Nov. 6.
Unger, Oskar, Ludwigshafen-on-the-Rhine, and G. Böhner, Friedrichsfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of vat dyestuffs of the anthraquinone-acridone series. 1,690,913; Nov. 6.
Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
United Shoe Machinery Corporation. (See Barkley, William B., assignor.)
United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)
United Shoe Machinery Corporation. (See Headley, Arthur E., assignor.)
United Shoe Machinery Corporation. (See Julian, Gideon J., assignor.)
United Shoe Machinery Corporation. (See Ray, Eugene J., assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Woodcock, assignors.)
United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)
United States Printing and Lithograph Company, The. (See Taylor, Arthur K., assignor.)
United Steel and Wire Co. (See Macomber, Lynn W., assignor.)
Universal Gas Electric Company. (See Kemble, Thomas S., assignor.)
Universal Oil Products Company. (See Dubbs, Carbon P., assignor.)
Upham, Preston, Brookline, Mass., assignor, by mesne assignments, to The Bassick Manufacturing Company, Chicago, Ill. Lubricating apparatus. 1,690,212; Nov. 6.
Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Automobile axle. 1,690,510; Nov. 6.
Urschel, Bertis H., assignor to Urschel Engineering Company, Bowling Green, Ohio. Axle for self-propelled vehicles. 1,690,511; Nov. 6.
Urschel Engineering Company. (See Urschel, Bertis H., assignor.)
Uttz, William A., sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex. Gummed-tape-serving machine. 1,690,512; Nov. 6.
V. L. Oil Processes Limited. (See Lucas, O. D., and Lomax, assignors.)
Vallée, Armand J., Albany, assignor to General Railway Signal Company, Rochester, N. Y. Block signal system for railroads. 1,690,387; Nov. 6.
Vallez, Henry A., Bay City, Mich. Filtering elements. 1,691,001; Nov. 6.
Vallez, Henry A., assignor to Vallez Rotary Filters Company, Bay City, Mich. Household filter. 1,690,958; Nov. 6.
Vallez Rotary Filters Company. (See Vallez, Henry A., assignor.)
Van Bree, Hubert, assignor to Racine Electric Company, Racine, Wis. Clipper. 1,690,801; Nov. 6.
Van Buren, Chester G., Chicago, Ill. Loose-leaf binder. 1,690,317; Nov. 6.
Vander Wee, George R., Detroit, Mich. Saw. 1,690,803; Nov. 6.
Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
Varusky, John J., assignor to Carter-Mayhew Manufacturing Co., Minneapolis, Minn. Reclaiming attachment for scalpers. 1,690,513; Nov. 6.
Venail, Paul, Paris, France. Power loom for the manufacture of pile fabrics. 1,690,802; Nov. 6.
Vickers Limited. (See Dawson, A. T., Bucklam, and White, assignors.)
Vickers Limited. (See Potts, Charles H., assignor.)
Victor Talking Machine Company. (See Kieffer, Eugene T., assignor.)
Vines, Lewis R. (See Best, E., and Vines.)
Vivarttas, William O., assignor to Mattison Machine Works, Rockford, Ill. Molding machine. 1,690,145; Nov. 6.
Vivarttas, William O., and L. T. Medholdt, assignors to Mattison Machine Works, Rockford, Ill. Molder. 1,690,146; Nov. 6.
Volwiler, Ernest H., Highland Park, assignor to Abbott Laboratories, North Chicago, Ill. Enteric coated capsule. 1,690,760; Nov. 6.
Vossen, Bartholomäus, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing leather with acid azo dyestuffs. 1,690,318; Nov. 6.
Waddell, Benson F., New York, N. Y. Electromagnet for sound-reproducing instruments. 1,690,147; Nov. 6.
Wahlberg, Nils J. A., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission-line device. 1,690,185; Nov. 6.
Wakefield, Arthur T., assignor to American Oil Company, Baltimore, Md. Flush-surface fill device. 1,690,914; Nov. 6.
Waldron, Frederick A., Westfield, N. J. Head for golf clubs. 1,690,388; Nov. 6.
Walker, H. H. (See Underwood, Western, assignor.)
Walker, Henry B., Marion, assignor to The Fairfield Engineering Company, Marion, Ohio. Method of and apparatus for handling material. 1,690,603; Nov. 6.
Wallace, Hugh, assignor to General Motors Research Corporation, Dayton, Ohio. Electromagnetic motor. 1,690,349; Nov. 6.
Wallis, Harry C., and K. A. Robinson, London, England. Cap closure for the mouths of bottles or other containers. 1,690,148; Nov. 6.
Wallis, Henry E., Detroit, Mich. Boiler furnace and garbage incinerator. 1,60,260; Nov. 6.
Walter, Henry A., Barberton, and J. R. Crossan, Wadsworth, Ohio, assignors to Seiberling Rubber Company. Manufacture of rubber tire treads. 1,690,514; Nov. 6.
Walther, Franz, Berlin, Germany. Toothed gearing for building toys. 1,690,349; Nov. 6.
Ward, Marshall H., Brooklyn, N. Y., assignor to Motor Improvements, Inc., Newark, N. J. Spiral filter. 1,690,564; Nov. 6.
Ward, Otto, and J. Compton, Binghamton, N. Y. Bed-rail brace. 1,60,465; Nov. 6.
Warp Twisting-In Machine Company. (See Becker, John H., assignor.)
Washburn, Herbert I., Magnolia, N. J. Agricultural apparatus. 1,690761; Nov. 6.
Washburn, John M., assignor to The Morrow Machine Company, Hartford, Conn. Bucket for use in hardening furnaces. 1,690,466; Nov. 6.
Waterbury Farrel Foundry and Machine Company, The. (See Wilcox, Richard L., assignor.)
Waters, Daniel V. (See Zimmermann, W. F., and Waters.)
Watkins, Rotcher H., Durham, N. C. Advertising sign. 1,690,149; Nov. 6.
Watson, Basel R. (See St. Clair, O., and Watson.)
Wayne Home Equipment Company, The. (See Baxter, William M., assignor.)
Weaber, Cyrus, Pueblo, Colo. Hog trough. 1,690,762; Nov. 6.
Wear, Charles, Waltham, Mass., assignor of one-half to J. Pollak. Art of baking. 1,690,882; Nov. 6.

Weaver, Marvin S., Southern Pines, N. C. Method of and apparatus for molding and curing concrete. 1,690,467; Nov. 6.
Weber Electric Company, The. (See Nickerson, Henry E., assignor.)
Weber, Harry M., assignor to Ellis-Foster Company, Montclair, N. J. Composition of matter containing a cellulose derivative. 1,690,515; Nov. 6.
Webster, Norman C., Greensboro Bend, Vt. Telephone equipment. 1,690,959; Nov. 6.
Weeks, Charles M., Chevy Chase, Md. Lamp-socket pull-chain guide. 1,690,350; Nov. 6.
Weller Manufacturing Company. (See Howard, Harmon E., assignor.)
Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Spectacle temple. 1,690,604; Nov. 6.
Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,690,605; Nov. 6.
Wendle, Virgil P., and M. L. Hunker, assignors to The Reeves Manufacturing Company, Dover, Ohio. Sheet-metal receptacle. 1,690,261; Nov. 6.
Wentworth, Philip C., Providence, R. I. Twister traveler. 1,690,468; Nov. 6.
Wenzel, Karl E., Hamborn, Germany, assignor to The Hannauer Car Retarder Company, Chicago, Ill. Apparatus for transmitting signs. 1,690,915; Nov. 6.
Westcot, William B., assignor to Rubber Latex Research Corporation, Boston, Mass. Using latex and product thereof. 1,690,150; Nov. 6.
Wessling, Harry E. (See Schumacher, E. A., and Wessling.)
Western Electric Company. (See Bollinger, Charles, assignor.)
Western Electric Company. (See Booth, W. T., and Magrath, assignors.)
Western Electric Company. (See Carpenter, Warren W., assignor.)
Western Electric Company. (See Clement, Lewis M., assignor.)
Western Electric Company. (See Craft, Edward B., assignor.)
Western Electric Company. (See Gent, Edgar W., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Hoge, Joseph F. D., assignor.)
Western Electric Company. (See Horton, Joseph W., assignor.)
Western Electric Company. (See Kuhn, John J., assignor.)
Western Electric Company. (See Marchev, Alfred, assignor.)
Western Electric Company. (See Moore, Charles R., assignor.)
Western Electric Company. (See O'Neill, Henry W., assignor.)
Western Electric Company. (See Pennock, George A., assignor.)
Western Electric Company. (See Pugh, Emerson, assignor.)
Western Electric Company. (See Raynsford, Arthur, assignor.)
Western Electric Company. (See Rinck, Franklin B., assignor.)
Western Electric Company. (See Saunders, Alfred W., assignor.)
Western Electric Company. (See Siebs, Claude T., assignor.)
Western Electric Company. (See Snook, Homer C., assignor.)
Western Electric Company. (See Wilson, Ira G., assignor.)
Western Electric Company. (See Ziegler, Arthur W., assignor.)
Western Safety Razor Company. (See Smith, Margaret J., assignor.)
Westinghouse Air Brake Company, The. (See Hukill, Henry D., assignor.)
Westinghouse Air Brake Company, The. (See Livingston, Fremont P., assignor.)
Westinghouse Air Brake Company, The. (See Peterson, Andrew F., assignor.)
Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, T. H., and Nelson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Allen, Robert C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederic H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Morgan, David W. R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stumm, Ross M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)
Wertheimer, Leo, Buffalo, N. Y. Coffee leacher. 1,690,763; Nov. 6.
Westberg, Sigurd, Pittsburgh, Pa. Reducing oxides to metallic form. 1,690,916; Nov. 6.
Westling, Andrew, assignor to Concrete Elevator Company, Minneapolis, Minn. Apparatus for removing grain doors. 1,690,262; Nov. 6.
Wetherbee, Herbert E. (See Grant, R. F., Richards, and Wetherbee.)
Weymann, Charles T., Paris, France, assignor to Weymann's Motor Bodies (1925) Limited, London, England. Latch for carriage doors and the like. 1,690,655; Nov. 6.
Weymann's Motor Bodies (1925) Limited. (See Weymann, Charles T., assignor.)
Wheeler, Earl A., assignor to Standard Road Maintenance Company, Los Angeles, Calif. Road-working machine. 1,690,263; Nov. 6.
Wheeler, Leonard H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Fuel-feeding device for internal-combustion engines. 1,690,565; Nov. 6.
Whinnen, Eugene, Long Beach, Calif., assignor to Sullivan Machinery Company. Drilling apparatus. 1,690,469; Nov. 6.
White, James F. (See Dawson, A. T., Buckham, and White.)
Whiteman, Owen E. (See Owen, L. R., and Whiteman.)
Whitlock Coil Pipe Company, The. (See Jacocks, George T., assignor.)
Whitney Metal Tool Company. (See Jensen, John, assignor.)
Whitten, Frank A., Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich. Frame construction. 1,690,351; Nov. 6.
Wickers, Barney C., Lebanon, Ind. Shoehorn. 1,690,516; Nov. 6.
Wiggin, John D., Montclair, and M. M. Remmes, Belleville, assignors to H. B. Wiggin's Sons Company, Bloomfield, N. J. Composition of matter and mold made therefrom and method of casting pottery in the mold. 1,690,708; Nov. 6.
Wiggin's, H. B., Sons Company. (See Wiggin, J. D., and Remmes, assignors.)
Wigglesworth, Harry H. (See Sibson, W. W., and Wigglesworth.)
Wigglesworth, Harry H., assignor to The Philadelphia Drying Machinery Company, Philadelphia, Pa. Drying machine. 1,690,439; Nov. 6.
Wikstrom, Frank G., assignor to Hadwik Mfg. Co. Inc., Brooklyn, N. Y. Closure. 1,690,804; Nov. 6.
Wilcolator Company, The. (See Fonseca, Edward L., assignor.)
Wilcolator Company, The. (See Twombly, Willard I., assignor.)
Wilcox, Richard L., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Making commutator segments and the like. 1,690,017; Nov. 6.
Willard, Clarence G., assignor to The Mine and Smelter Supply Company, Denver, Colo. Mill. 1,690,497; Nov. 6.
Willcox, Frederick H., assignor to Freyn Engineering Company, Chicago, Ill. Steam plant. 1,690,389; Nov. 6.
Williams, Charles, and F. Francois, assignors of one-third to E. Bozonier, Oakland, Calif. Wood-preserving composition. 1,690,390; Nov. 6.
Williams, Charles E., assignor to The Lilley Company, Columbus, Ohio. Lodge or fraternal paraphernalia. 1,690,656; Nov. 6.
Williams, Edward, assignor to Williams Welding & Manufacturing Company, Charlerol, Pa. Furnace door. 1,690,606; Nov. 6.
Williams, Harry M., Dayton, Ohio. Heat-resisting alloy. 1,690,352; Nov. 6.
Williams Oil-O-Matic Heating Corporation. (See Williams, Walter W., assignor.)
Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Safety control mechanism for fuel-feeding devices. 1,691,002; Nov. 6.
Williams, Walter W., assignor to Williams Oil-O-Matic Heating Corporation, Bloomington, Ill. Ignition device for liquid-fuel burners. 1,691,003; Nov. 6.
Williams Welding & Manufacturing Company. (See Christy, Bayard H., assignor.)
Williams Welding & Manufacturing Company. (See Williams, Edward, assignor.)
Williamson, Roy C., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Power lift for road machines. 1,690,391; Nov. 6.
Wilson, Alfred E., Bromley, England. Filling of joint boxes for electric cables and apparatus therefor. 1,690,657; Nov. 6.
Wilson, Alfred E., Bromley, England. Filling of joint boxes for electric cables. 1,690,658; Nov. 6.
Wilson, Charles E., and A. Toelle, Anderson, Ind., assignors, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Ignition-coil mounting. 1,690,353; Nov. 6.
Wilson, Charles H., and C. J. Brown, North Pelham, N. Y. Electrical controller and recorder. 1,690,517; Nov. 6.
Wilson, Ira G., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic system for testing repeaters. 1,690,213; Nov. 6.
Wilson, William W., Los Angeles, Calif. Rod elevator. 1,690,709; Nov. 6.
Winkley, Erastus E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. 1,690,186; Nov. 6.
Winthrop Chemical Company. (See Bochmühl, M., and Ehrhart, assignors.)



Winthrop Chemical Company. (See Schulemann, W., and Meisenburg, assignors.)
Wishart, John O., Milwaukee, Wis. Centrifugal casting machine. 1,690,354; Nov. 6.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Focusing objective mount for cameras. 1,690,607; Nov. 6.
Wolfe, Clinton L., Brooklyn, and J. A. Faurot, New York, N. Y. Automatic door closing and locking device. 1,690,264; Nov. 6.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 76,844; Nov. 6.
Wolters, Gustav O., Villigst, near Schwerte, Germany. Regenerative coke oven. 1,690,805; Nov. 6.
Wood Conversion Company. (See Ziska, Adam, jr., assignor.)
Woodbury, Robert W., assignor to Lucey Manufacturing Corporation of Tennessee, Chattanooga, Tenn. Hoisting drum. 1,690,151; Nov. 6.
Woodcock, Reginald B. (See Ricks, F., and Woodcock.)
Woop, William, Farmingdale, N. Y. Flexible window frame and sash construction. 1,690,518; Nov. 6.
Wright, Charles R., assignor to Macomb Manufacturing Company, Macomb, Ill. Chair or the like. Des. 76,845; Nov. 6.
Wright's Automatic Tobacco Packing Machine Company. (See Fischer, Louis, assignor.)
Wunderlich, Curt E. (See Schmidt, M. A., and Wunderlich.)
Wykes, Ernest, Humboldt, Iowa. Oil-burning stock-tank heater. 1,690,659; Nov. 6.
Yacoubyan, Vahan P., New York, N. Y. Safety razor. 1,690,608; Nov. 6.
Yale and Towne Manufacturing Company, The. (See Maxwell, Maxwell C., assignor.)
Yamanaka, Saburo, Los Angeles, Calif. Polishing pad. 1,690,960; Nov. 6.
York, J. W., & Sons. (See Johnson, Alfred J., assignor.)
Yoshinaga, Gengiro, Los Angeles, Calif. Automobile bumper. 1,690,961; Nov. 6.
Young, Forrest R. (See Payne, H. T., and Young.)
Zane, Daniel F., Steubenville, Ohio. Tobacco pipe. 1,690,609; Nov. 6.
Zeh, Ludwig. (See Duisberg, W., Hentrich, and Zeh.)
Zenneck, Jonathan, Munich, Germany, and E. Knopp, New York, N. Y. Tone receiver for undamped oscillations. 1,690,918; Nov. 6.
Ziegler, Arthur W., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Current-ballasting device. 1,690,566; Nov. 6.
Ziegler, Walter R., Riverside, N. J. Hosiery carton. 1,690,883; Nov. 6.
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Eccentric vise. 1,690,611; Nov. 6.
Zimmermann, William F., Maplewood, and D. V. Waters, Hillside, assignors to Gould & Eberhardt, Newark, N. J. Movable and stationary feed control for shaping machine work tables. 1,690,610; Nov. 6.
Ziska, Adam, jr., Milwaukee, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Press. 1,690,152; Nov. 6.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Speedometer. 1,690,355; Nov. 6.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Clutch-shifting mechanism for odometers. 1,690,356; Nov. 6.
Zumbro, Frank R., and F. Shenton, assignors to Frick Company, Waynesboro, Pa. Automatic starter. 1,690,187; Nov. 6.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 6TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator for motor vehicles. H. B. Cooper. 1,690,333; Nov. 6.
Acid compositions, Preparing tannic-. R. S. Paterson. 1,690,175; Nov. 6.
Acid, Preparing 2-aminonaphthalene-3-carboxylic. E. Hotz and V. Lanz. 1,690,785; Nov. 6.
Acids from petroleum hydrocarbons and product, Making organic. A. W. Burwell. 1,690,769; Nov. 6.
Aeroplane wings with variable profile, Construction of flexible. U. Antoni. 1,690,765; Nov. 6.
Aeroplanes with gas bombs, Bomber attachment for. A. F. and H. A. Nair. 1,690,791; Nov. 6.
Agricultural apparatus. H. I. Washburn. 1,690,761; Nov. 6.
Air cleaner. C. F. Kettering. 1,690,341; Nov. 6.
Air deflector, Cold-. J. W. Barnhart. 1,690,323; Nov. 6.
Air heater. J. E. Bolling and E. Szekely. 1,690,326; Nov. 6.
Airship. R. G. Donaldson. 1,690,773; Nov. 6.
Airship. V. C. Richmond and G. H. Scott. 1,690,878; Nov. 6.
Aligning pump liners within pump shells. L. P. Burgess. 1,690,399; Nov. 6.
Alloy, Heat-resisting. H. M. Williams. 1,690,352; Nov. 6.
Aluminum chloride, Making. A. M. McAfee and G. I. Roberts. 1,690,990; Nov. 6.
Anchor device. C. P. Seyler. 1,690,597; Nov. 6.
Anchor, Rail. E. N. Johnson. 1,690,979; Nov. 6.
Anchor, Rail. C. B. Shepherd. 1,691,019; Nov. 6.
Animal trap. H. G. Harte. 1,690,369; Nov. 6.
Animal trap. F. J. Rufle. 1,690,755; Nov. 6.
Apparatus for the visual interpretation of speech and music. E. B. Craft. 1,690,279; Nov. 6.
Apron. V. R. Sladek. 1,690,138; Nov. 6.
Arch support. T. K. Balaskas. 1,690,964; Nov. 6.
Arch support, Insertable. I. Rehlé. 1,690,837; Nov. 6.
Armature-assembly apparatus. R. W. Baker. 1,690,322; Nov. 6.
Arsenates, Making. C. Ellis and V. T. Stewart. 1,690,628; Nov. 6.
Art of baking. C. Wear. 1,690,882; Nov. 6.
Article support. E. C. Blodgett. 1,690,711; Nov. 6.
Automatic indicator. J. A. Pertale. 1,690,244; Nov. 6.
Automobile body. M. H. Kashian. Des. 76,811; Nov. 6.
Automobile, Electric. K. H. O. Lübeck. 1,690,199; Nov. 6.
Axle, Automobile. B. H. Urschel. 1,690,510; Nov. 6.
Axle for self-propelled vehicles. B. H. Urschel. 1,690,511; Nov. 6.
Babbitting machine. T. H. Orr. 1,690,992; Nov. 6.
Bag, suitcase, and the like, Traveling. B. H. Shwayder. 1,690,507; Nov. 6.
Bar: *See*—
  Splice bar.
Basin. C. Friedrich. 1,690,482; Nov. 6.
Basket cover and handle fastening means, Combined. C. J. Dudley. 1,690,722; Nov. 6.
Battery connecter. F. G. Julyan. 1,690,118; Nov. 6.
Battery plates, Process and machine for the manufacture of storage-. J. N. Davis. 1,690,887; Nov. 6.
Battery separator element and producing same, Storage-. N. Fallek. 1,690,573; Nov. 6.
Battery tester. E. G. Peters. 1,690,500; Nov. 6.
Beacon. E. W. Jackson. 1,691,011; Nov. 6.
Beam form. L. I. Bruce. 1,690,361; Nov. 6.
Bearing for grinding wheel spindles, End-thrust. C. H. Norton. 1,690,425; Nov. 6.
Bearing, Quick-detachable disk. H. P. Corbin. 1,690,530; Nov. 6.
Bed-rail brace. O. Ward and J. Compton. 1,690,465; Nov. 6.
Bed, Sofa. A. E. Anderson and C. A. Forsberg. 1,690,963; Nov. 6.
Belt, Safety. R. L. Cosby. 1,690,720; Nov. 6.
Belting. F. O. Marshall. 1,690,453; Nov. 6.
Benzoic acid salt of amino benzoic esters. H. Seydel. 1,690,705; Nov. 6.
Bilge suction strainer for ships. H. A. W. Petersen. 1,690,700; Nov. 6.
Binder, Loose-leaf. C. G. Van Buren. 1,690,317; Nov. 6.
Binder post. H. T. Payne and F. R. Young. 1,690,456; Nov. 6.
Binder, Temporary. M. Meyerson. 1,690,871; Nov. 6.
Block machine. F. X. Muenzer. 1,690,422; Nov. 6.
Blocks, Making reenforced. L. W. Cafferata. 1,690,474; Nov. 6.



Blood-pressure apparatus. C. E. Dressler. 1,690,671; Nov. 6.
Board: *See*—
  Plaster board. Wall board.
Boat, Collapsible. E. V. Langen. 1,690,936; Nov. 6.
Boats, Weather hood of. I. R. Fleming. 1,690,285; Nov. 6.
Boiler: *See*—
  Gas boiler.
Boiler-pipe cleaner. L. Rockelman. 1,690,434; Nov. 6.
Bookcase and desk cabinet or similar article, Combination. E. C. M. Dickey. Des. 76,783; Nov. 6.
Bottle. G. N. Mas. Des. 76,819; Nov. 6.
Bottle cap. D. Genese. 1,690,781; Nov. 6.
Bottle-filling device. G. D. Bly. 1,690,470; Nov. 6.
Bottle protector. M. L. and G. A. Thoreson. 1,690,509; Nov. 6.
Bottle, Tripurpose. G. C. Forbes. 1,690,930; Nov. 6.
Bottling machine. S. C. Bond. 1,690,527; Nov. 6.
Bowling alleys, Division guard for. R. E. Kennedy. 1,690,539; Nov. 6.
Box: *See*—
  Collapsible box. Pilferproof box.
  Flower box.
Boxes, Apparatus and method for making fibrous. O. P. Bushnell. 1,690,528; Nov. 6.
Boxes, Making. C. S. Price. 1,690,833; Nov. 6.
Brace: *See*—
  Bed-rail brace.
Bracelet extension device. N. T. Nelson. 1,690,498; Nov. 6.
Bracket: *See*—
  Engine bracket.
Braiding-machine carrier. C. Haggerty. 1,690,897; Nov. 6.
Brake. N. A. Christensen. 1,690,855; Nov. 6.
Brake-applying mechanism. G. J. Thomas. 1,690,382; Nov. 6.
Brake mechanism, Motor-vehicle. W. L. Martin. 1,690,343; Nov. 6.
Brake meter. A. Klimek. 1,690,121; Nov. 6.
Brake-shoe construction. H. D. Hukill. 1,690,302; Nov. 6.
Brake shoe for car retarders. W. K. Howe. 1,691,010; Nov. 6.
Broiler, Electric. H. O. Dalbey, sr. 1,690,570; Nov. 6.
Brush. J. C. Steiner. 1,690,757; Nov. 6.
Brush-making machine. J. W. Michaelis. 1,690,420; Nov. 6.
Brushing and polishing apparatus, Citrus-fruit. L. N. Haley. 1,690,195; Nov. 6.
Bucket for use in hardening furnaces. J. M. Washburn. 1,690,466; Nov. 6.
Buckle, Belt. R. F. Eichner. Des. 76,785; Nov. 6.
Bumper-attaching means. H. S. Jandus. 1,690,821; Nov. 6.
Bumper, Automobile. E. J. Harvey. Des. 76,767; Nov. 6.
Bumper, Automobile. G. Yoshinaga. 1,690,961; Nov. 6.
Bumper, Mine-car. G. E. Edmunds. 1,690,532; Nov. 6.
Burner: *See*—
  Gas burner. Oil burner.
Burner installation, Gas-kindling-. F. A. Gercich. 1,690,290; Nov. 6.
Burning liquid fuel, Process and apparatus for. J. M. Kelley. 1,690,119; Nov. 6.
Button, Separable. L. W. Prentiss. 1,690,129; Nov. 6.
Button, stud, or the like. E. Sturton. 1,690,561; Nov. 6.
Cabinet for radio receiving apparatus. A. A. Kent. Des. 76,812; Nov. 6.
Cabinet for sound producing and reproducing instruments. E. T. Kieffer. Des. 76,814–15; Nov 6.
Cabinet, Organ. J. P. Seeburg. Des. 76,826; Nov. 6.
Cable support. J. F. D. Hoge. 1,690,297; Nov. 6.
Cableway. C. Fisher. 1,690,929; Nov. 6.
Cake mold, Individual. H. Bilodeau. 1,690,526; Nov. 6.
Calculating machine. A. Schubode. 1,690,651; Nov. 6.
Calculating machines, Attachment for. A. A. Horton. 1,690,487; Nov. 6.
Calculating machines, Cushioning mechanism for. A. A. Horton. 1,690,488; Nov. 6.
Camera. H. Forst. 1,690,673; Nov. 6.
Camera. P. P. Grosso. 1,690,292; Nov. 6.
Cameras, Focusing objective mount for. O. Wittel. 1,690,607; Nov. 6.
Can. K. S. Breckenridge. 1,690,441; Nov. 6.
Can opener. I. Anderson. 1,690,319; Nov. 6.
Can opener. L. Kossuth and C. Lanza. 1,690,982; Nov. 6.



Candy, Halloween. W. W. Cassidy. Des. 76,776; Nov. 6.
Cap. J. F. Leicht. 1,690,736; Nov. 6.
Cap closure for the mouths of bottles or other containers. H. C. Wallis and K. A. Robinson. 1,690,148; Nov. 6.
Capsule, Enteric coated. E. H. Volwiler. 1,690,760; Nov. 6.
Car coupler. W. Kelso. 1,690,638; Nov. 6.
Car, Railway box freight. G. R. Joughins. 1,690,170; Nov. 6.
Cars, Draft appliance for railway. W. J. Regan and E. George, jr. 1,690,650; Nov. 6.
Carburetor. H. W. Allen. 1,690,962; Nov. 6.
Card, Index guide. G. H. Dawson. 1,690,889; Nov. 6.
Cards, Set of playing. O. Kubatzky. Des. 76,816; Nov. 6.
Carrier: *See*—
  Braiding-machine carrier. Egg carrier.
Carrier and lamp device for automobiles, Combined tire. E. W. Seaholm, G. E. Parker, and E. K. Schadt. 1,690,347; Nov. 6.
Carton, Hosiery. W. R. Ziegler. 1,690,883; Nov. 6.
Cartridge, Blank. M. De Geynst and I. Lepage. 1,690,890; Nov. 6.
Case: *See*—
  Collapsible case. Vanity case.
Case for cigarette packages. V. Nirols. 1,690,308; Nov. 6.
Casing, Gasoline-meter. C. D. Fagan. Des. 76,788; Nov. 6.
Casing, Pump. E. E. Eickmeyer. Des. 76,786; Nov. 6.
Casing, Time-switch. E. S. Flarsheim. Des. 76,789; Nov. 6.
Castings, Making sausage. F. Frey. 1,690,779; Nov. 6.
Casting machine, Centrifugal. J. O. Wishart. 1,690,354; Nov. 6.
Cellulose acetate, Making chloroform-soluble. H. Le B. Gray and C. J. Staud. 1,690,632; Nov. 6.
Cellulose digesters and the like and means therefor, Charging. P. A. Fresk. 1,690,192; Nov. 6.
Cellulose esters containing nitro groups and halogen-substituted acyl groups. H. T. Clarke and C. J. Malm. 1,690,621; Nov. 6.
Cellulose esters containing unsaturated organic acid groups. H. T. Clarke and C. J. Malm. 1,690,620; Nov. 6.
Center clamp. H. S. Jandus. 1,690,861; Nov. 6.
Ceramic articles, Making. D. W. Ross and J. M. Lamble. 1,690,208; Nov. 6.
Chair: *See*—
  Screed chair.
Chair and bed, Convertible. M. Schwab. 1,690,797; Nov. 6.
Chair or the like. C. R. Wright. Des. 76,845; Nov. 6.
Checking apparatus, Schedule. H. B. Long. 1,690,738; Nov. 6.
Choker hook. O. Mickelson. 1,690,745; Nov. 6.
Chopper: *See*—
  Cotton chopper.
Cinchophen, Preparing. R. Pasternack. 1,690,128; Nov. 6.
Cinematograph apparatus with continuously-fed film. V. Continsouza and M. Combes. 1,690,770; Nov. 6.
Circuit control, Pressure-actuated electric-. I. E. McCabe. 1,690,689; Nov. 6.
Circuit controllers, Operating mechanism for. P. Brown. 1,690,473; Nov. 6.
Circuit for amplifying direct or alternating currents by vacuum tubes. G. Thilo. 1,690,881; Nov. 6.
Circuit to centralized operator's position, Trunking. F. E. Lamberty. 1,690,234; Nov. 6.
Circuit, Suppression of echoes and singing in four-wire. H. C. Silent. 1,690,182; Nov. 6.
Circulating heater. A. J. Johnson and J. J. Moriarty. Des. 76,808; Nov. 6.
Clamp: *See*—
  Center clamp. Hair clamp.
  Clothesline clamp. Hose clamp.
  Electric-socket clamp. Picker-stick clamp.
Clamp. H. S. Jandus and J. R. Morgan. Des. 76,802; Nov. 6.
Clamp plate. H. S. Jandus and W Meyerhuber. Des. 76,805–6; Nov. 6.
Clamp plate. H. S. Jandus and J. R. Morgan. Des. 76,803–4; Nov. 6.
Clamp plate. H. S. Jandus and J. R. Morgan. Des. 76,807; Nov. 6.
Clamp plate. H. S. Jandus and N. Van Husen. Des. 76,800–1; Nov. 6.
Classifying device, Automatic. W. D. Kmentt. 1,690,171; Nov. 6.
Cleaner: *See*—
  Air cleaner. Silk cleaner.
  Boiler-pipe cleaner. Window cleaner.
Cleaning device, Spark-plug-. G. W. Fleming and R. W. Ellingham. 1,690,629; Nov. 6.
Cleaning machine, Drum-. A. Stevens. 1,690,758; Nov. 6.
Cleaning means. P. Breton. 1,690,472; Nov. 6.
Cleansing and cooling gases, Apparatus for. O. Hubmann. 1,690,635; Nov. 6.
Clip: *See*—
  Pencil clip.
  Spring holding and positioning clip.
Clipper. H. Van Bree. 1,690,801; Nov. 6.
Clock case. F. C. Herbermann. Des. 76,798; Nov. 6.
Closure. F. G. Wikstrom. 1,690,804; Nov. 6.
Closure, Can. J. C. Diament. 1,690,892; Nov. 6.
Closure, Container. J. D. Reifsnyder. 1,690,701; Nov. 6.
Closure, Package. M. B. Behrman. 1,690,850; Nov. 6.
Closures, Forming. W. M. Bell. 1,690,523; Nov. 6.
Cloth-cutting machine. I. Appelbaum. 1,690,808; Nov. 6.
Clothesline clamp. H. F. Drake. 1,690,815; Nov. 6.
Clothes wringer. L. Judelson. 1,690,117; Nov. 6.
Clutch. F. W. Krafft. 1,690,686; Nov. 6.
Clutch. W. J. Pearmain. 1,690,698; Nov. 6.
Clutch-shifting mechanism for odometers. J. Zubaty. 1,690,356; Nov. 6.
Coating machine. H. O. Pohrt. 1,690,344; Nov. 6.
Coating of pervious material. N. E. Oliver. 1,690,426–7; Nov. 6.
Cock device, Angle-. T. H. Thomas. 1,690,816; Nov. 6.
Coffee leacher. L. Wertheimer. 1,690,763; Nov. 6.
Coffee table. J. Terr. Des. 76,830; Nov. 6.
Collapsible box. R. A. Gross. 1,690,109; Nov. 6.
Collapsible case. O. B. Hanson. 1,690,294; Nov. 6.
Collar. W. J. La Rose. 1,690,868; Nov. 6.
Collar attachment. C. Brenessel. 1,690,715; Nov. 6.
Combing machines, Attachment for. A. P. Lafam. 1,690,983; Nov. 6.
Commode. M. Oppenheim. 1,690,793; Nov. 6.
Commutator segments and the like, Making. R. L. Wilcox. 1,690,917; Nov. 6.
Composition for joining strips of motion-picture films. O. W. Cook. 1,690,622; Nov. 6.
Composition of matter and mold made therefrom and method of casting pottery in the mold. J. D. Wiggin and M. M. Rammes. 1,690,708; Nov. 6.
Composition of matter containing a cellulose derivative. H. M. Weber. 1,690,515; Nov. 6.
Compound for bread making. E. E. Lindsey. 1,690,688; Nov. 6.
Compressional waves, System for the production of and detection of. J. H. Hammond, jr. 1,690,579; Nov. 6.
Compressor, Hydro air. W. S. Sullivan. 1,690,912; Nov. 6.
Compressor, Lubricant. D. F. Fesler. 1,690,221; Nov. 6.
Compressor, Tidal hydraulic air. H. M. Knight. 1,690,787; Nov. 6.
Compressor unloader. F. P. Livingston. 1,690,304; Nov. 6.
Concrete-block mold. D. C. Smith. 1,690,462; Nov. 6.
Concrete-mixer water control. O. C. Barrymore and R. A. Daddisman. 1,690,849; Nov. 6.
Concrete-molding apparatus. W. Kleitz. 1,690,864; Nov. 6.
Condenser. D. W. R. Morgan. 1,690,747; Nov. 6.
Condenser, Electrical. P. E. Gilling. 1,690,674–5; Nov. 6.
Condenser, Radio vacuum-tube. P. E. Gilling. 1,690,676; Nov. 6.
Condenser, Variable. M. H. Bennett. 1,690,095; Nov. 6.
Conductor, Signaling. W. E. Mougey. 1,690,201; Nov. 6.
Connecter, Ground. A. P. Fahnestock. 1,690,220; Nov. 6.
Contactor. T. S. Kemble. 1,690,414; Nov. 6
Container. M. R. Kondolf. 1,690,824; Nov. 6.
Container. P. Reeves. 1,690,178; Nov. 6.
Container for plastic material. A. H. Trotter. 1,690,654; Nov. 6.
Container, Refrigerant. G. J. Gruendler. 1,690,406; Nov. 6.
Container with cover-lifting auxiliaries. C. J. I. Devlin. 1,690,479; Nov. 6.
Control mechanism. W. I. Twombly. 1,690,847; Nov. 6.
Controller for vehicle springs. F. C. Mock. 1,690,546; Nov. 6.
Controlling and operating device for machine tools or the like, Fluid or air. A. R. Kuzclewski. 1,690,541; Nov. 6.
Controlling cracking stills, Apparatus for. W. C. Parrish. 1,690,243; Nov. 6.
Controlling device. F. D. Hardesty. 1,690,339; Nov. 6.
Controlling device for the keys of keyboard machines. P. M. Colquhoun. 1,690,443; Nov. 6.
Controlling the flow of all fluids in an oil-burner apparatus. W. M. Baxter. 1,690,329; Nov. 6.
Conveyer, Belt. H. E. Howard. 1,690,301; Nov. 6
Conveyer for sugar-cane mills. W. A. Ramsay. 1,690,877; Nov. 6.
Conveyer mechanism, Overhead steel-plate. G. Raymond. 1,690,502; Nov. 6.
Cooker drier, Combination. F. P. Renneburg. 1,690,753; Nov. 6.
Cooler and humidifier, Air. J. A. Lundmark. 1,690,417; Nov. 6.
Cooling system. S. W. Rushmore. 1,690,841; Nov. 6
Cooling system, Engine-. S. W. Rushmore. 1,690,703; Nov. 6.
Core, Collapsible. P. De Mattia. 1,690,623; Nov. 6.
Cotton chopper. E. R. Files. 1,690,928; Nov 6
Cotton chopper. J. L. Parks. 1,690,751; Nov. 6
Cotton-recleaning machine. J. E. Mitchell and D. Parks. 1,690,375; Nov. 6.
Counterbalancing device for vulcanizing molds. P. De Mattia. 1,690,625; Nov. 6.
Counting apparatus, Fruit-. F. Stebler. 1,690,756; Nov. 6.
Coupling: *See*—
  Stovepipe-casing coupling.
Coupling. E. W. Davis. 1,690,216; Nov. 6.
Cover, Adjustable radiator. M. Luery. 1,690,740; Nov. 6.
Crank shaft. A. Hirth. 1,690,296; Nov. 6.
Crate. C. Flagstad. 1,690,896; Nov. 6.

Crate, Bottle. L. W. Macomber. 1,690,418; Nov. 6.
Creping of paper. D. W. Hudson. 1,690,411; Nov. 6.
Cultivator. E. Best and L. R. Vines. 1,690,525; Nov. 6.
Cultivator. P. N. Moody. 1,690,790; Nov. 6.
Cultivator. E. A. Schumacher and H. E. Wessling. 1,690,252; Nov. 6.
Cup: *See*—
Paper cup. Teat cup.
Current-ballasting device. A. W. Ziegler. 1,690,566; Nov. 6.
Curtain and portière rod. J. H. Boye. Des. 76,771–3; Nov. 6.
Cutter or knife for meat-grinding machines. C. A. Laemmel. 1,690,904; Nov. 6.
Cutting cheese or the like, Apparatus for. E. F. Schedwin. 1,690,951; Nov. 6.
Cylindrical member and making the same. W. C. Johnson. 1,690,684; Nov. 6.
Decoration for ornamenting fibrous and similar surfaces and making and applying the same. H. S. Sadtler. 1,690,179; Nov. 6.
Delivering granular material in measured quantities by volume, Appliance for. E. Christiansen. 1,690,476; Nov. 6.
Desk top. B. E. Richardson. 1,690,130; Nov. 6.
Device for checking the operation of vehicles. R. H. Matthiessen and W. B. Eddison. 1,690,827; Nov. 6.
Device for giving warning of fire. E. Half. 1,690,486; Nov. 6.
Dial. O. A. Anderson. 1,690,806; Nov. 6.
Dial-cam-controlling mechanism. N. J. Perry. 1,690,593; Nov. 6.
Dial, Illuminated. L. F. Curtis. 1,690,670; Nov. 6.
Dilator, Anorectal. N. F. Pratt. 1,690,995; Nov. 6.
Dish, Buoyant soap. H. F. Nelthorpe. 1,690,591; Nov. 6.
Disintegrating device. F. J. E. China. 1,690,668; Nov. 6.
Disintegration of substances, Minute. F. J. E. China. 1,690,667; Nov. 6.
Dispenser, Cigarette and match. E. Peterson. 1,690,699; Nov. 6.
Dispensing apparatus, Liquid-. W. C. Jones. 1,690,730; Nov. 6.
Display-advertisement attachment for cigar lighters. E. L. Doty. 1,690,284; Nov. 6.
Display device. D. R. Collins. 1,690,477; Nov. 6.
Display device. G. F. Egan. 1,690,218–19; Nov. 6.
Display stand. L. Haik. Des. 76,795; Nov. 6.
Display stand. W. P. Kesel. Des. 76,813; Nov. 6.
Distillation of combustible materials, Process and apparatus for. O. Hubmann. 1,690,935; Nov. 6.
Distilling combustible material, Apparatus for. O. Hubmann. 1,690,933–4; Nov. 6.
Dolly. E. Karifiol. Des. 76,809–10; Nov. 6.
Doll. G. C. Ford. 1,690,778; Nov. 6.
Door and pusher interlock, Furnace. F. T. Cope. 1,690,272; Nov. 6.
Doorcheck. J. C. Schmidt and W. Eichholz. 1,690,952; Nov. 6.
Door closing and locking device, Automatic. C. L. Wolfe and J. A. Faurot. 1,690,264; Nov. 6.
Door control for automotive busses. R. W. Bailey. 1,690,265; Nov. 6.
Door for furnaces. B. H. Christy. 1,690,619; Nov. 6.
Door for mail boxes, Automatic. W. L. Cobb. 1,690,967; Nov. 6.
Door, Furnace. E. Williams. 1,690,606; Nov. 6.
Draft blower, Undergrate. H. C. Hook. 1,690,112; Nov. 6.
Drawing and steering trailer vehicles, Apparatus for. V. K. Lipp. 1,690,985; Nov. 6.
Dredge, Plow and jet elevator. J. M. Nicol. 1,690,239; Nov. 6.
Dredger-bucket mounting and operating structure. J. E. Funk. 1,690,574; Nov. 6.
Dredging vessel, Sand-. L. D. Smith. 1,690,380; Nov. 6.
Dresser, wardrobe, bookcase, and rack, Combined. F. C. Dieckmann. 1,690,404; Nov. 6.
Dress. K. E. Burns. Des. 76,775; Nov. 6.
Dress. M. C. Schmolze. Des. 76,824; Nov. 6.
Drier: *See*—
Cooker drier.
Drill: *See*—
Track drill.
Drill mechanism. T. R. E. Rundqvist. 1,690,504; Nov. 6.
Drilling apparatus. E. Whinnen. 1,690,469; Nov. 6.
Drilling machine. G. H. Gilman. 1,690,859; Nov. 6.
Drying-frame support. L. W. Rickey. 1,690,458; Nov. 6.
Drying machine. W. W. Sibson and H. H. Wigglesworth. 1,690,436; Nov. 6.
Drying machine. H. H. Wigglesworth. 1,690,439; Nov. 6.
Drying machine, Automatic. W. P. Greiner. 1,690,447; Nov. 6.
Drying or smoldering loose material, Apparatus for. O. Dobbelstein. 1,690,444; Nov. 6.
Dyeing leather with acid azo dyestuffs. B. Vossen. 1,690,318; Nov. 6.
Dyeing, printing, or stenciling of acetyl cellulose or products made therewith. G. H. Ellis and W. O. Goldthorpe. 1,690,481; Nov. 6.
Dyestuff, Anthraquinone vat. W. Mieg. 1,690,236; Nov. 6.
Dyestuff, Anthraquinone vat. W. Mieg. 1,690,306–7; Nov. 6.
Dyestuff, Azo. W. Duisberg, W. Hentrich, and L. Zeh. 1,690,774; Nov. 6.
Dyestuffs, Complex copperammine azo. W. Hentrich and M. Hardtmann. 1,690,782; Nov. 6.
Dyestuffs derived from 1,4,5,8-naphthalene tetracarboxylic acid and aromatic ortho-nitro-amines and preparing the same, Vat. W. Eckert. 1,690,775; Nov. 6.
Dyestuffs, Manufacture of azo. K. Holzach and R. Metzger. 1,690,900; Nov. 6.
Dyestuffs of the anthraquinone-acridone series, Manufacture of vat. O. Unger and G. Böhner. 1,690,913; Nov. 6.
Dyestuffs of the pyridazine-anthraquinone series, Vat. A. Job. 1,690,786; Nov. 6.
Dyestuffs, Producing azo. K. Heusner and M. Simon. 1,690,783; Nov. 6.
Dynamite, Nitroglycerin. T. O'Hern. 1,690,872; Nov. 6.
Dynamotor, Regulating. H. L. Tanner. 1,690,142; Nov. 6.
Echo suppressor, Selective. L. G. Abraham. 1,690,153; Nov. 6.
Egg carrier. M. Koppelman and W. H. Mapes. 1,690,492; Nov. 6.
Electric furnace. F. T. Cope. 1,690,273; Nov. 6.
Electric furnace. G. Sagramoso. 1,690,795; Nov. 6.
Electric generator. B. P. Remy. 1,690,248; Nov. 6.
Electric heater. D. U. Powell. 1,690,904; Nov. 6.
Electric plug connecter. W. H. Trimm. 1,690,759; Nov. 6.
Electric resistance furnace. A. J. Hanson. 1,690,678; Nov. 6.
Electric socket clamp. G. A. and F. E. Johnson. 1,690,683; Nov. 6.
Electric switch. C. D. Ainsworth. 1,690,996; Nov. 6.
Electric switch. E. L. Clark. 1,690,103; Nov. 6.
Electric switch. A. C. Gaynor. 1,690,780; Nov. 6.
Electric therapeutic appliance. J. H. Dequer. 1,690,926; Nov. 6.
Electric waves, Generation and control of. J. W. Horton. 1,690,299; Nov. 6.
Electrical controller and recorder. C. H. Wilson and C. J. Brown. 1,690,517; Nov. 6.
Electrical line conductors, Protecting. F. Hedley and J. S. Doyle. 1,690,580; Nov. 6.
Electrical testing. A. M. Curtis. 1,690,280; Nov. 6.
Electromagnet for sound-reproducing instruments. B. F. Waddell. 1,690,147; Nov. 6.
Electromagnetic motor. H. Wallace. 1,690,348; Nov. 6.
Electromagnetic sound-reproducing apparatus. E. F. Holinger. 1,690,725; Nov. 6.
Electrotherapy, Device for the application of. F. P. Reed, C. F. Strohm, and C. J. Dillwith. 1,690,551; Nov. 6.
Elevating apparatus. H. S. Germond, jr. 1,690,107; Nov. 6.
Elevator: *See*—
Rod elevator.
Elevator casing. N. M. Lower and P. A. Ketchpel. 1,690,789; Nov. 6.
Embalming table, Convertible. H. M. Leonard. 1,690,451; Nov. 6.
Embossing and printing machine. C. Chisholm. 1,690,442; Nov. 6.
Engine: *See*—
Gas engine. Reciprocating engine.
Internal-combustion engine.
Engine bracket, Outboard-. L. T. Savage. 1,690,435; Nov. 6.
Engines, Charging and distributing device for internal-combustion. J. S. Booth. 1,690,330; Nov. 6.
Envelope machine. A. Novick. 1,691,027; Nov. 6.
Erasing device. M. A. Schmidt and C. E. Wunderlich. 1,690,134; Nov. 6.
Esters of cholesterol with unsaturated acids. W. Minnich. 1,690,647; Nov. 6.
Excavator lip with integral teeth. T. Ratkowski. 1,690,835; Nov. 6.
Excavator tooth, Replaceable-point. T. Ratkowski. 1,690,834; Nov. 6.
Extraction of cellulose or paper pulp from fibrous vegetable matter containing the same. E. Spencer. 1,690,954; Nov. 6.
Eyeglass frame. J. J. Smith. 1,690,139; Nov. 6.
Eyeleting machine. J. W. Barna and N. A. Thomas. 1,690,521; Nov. 6.
Fabric: *See*—
Pile fabric.
Fastener. F. S. Carr. 1,690,662–3; Nov. 6.
Fastener, Separable. S. D. Boynton. 1,691,004; Nov. 6.
Fastener, Separable. F. S. Carr. 1,690,664–5; Nov. 6.
Fastener, Separable. A. F. Johnson. 1,691,013; Nov. 6.
Fastener, Separable. G. Johnson. 1,690,637; Nov. 6.
Fastener, Snap. F. S. Carr. 1,690,666; Nov. 6.
Fastening, Lacing. J. Pfeiffer-Braun. 1,690,309; Nov. 6.
Faucet and soap dish, Combination. J. Fraser. Des. 76,790; Nov. 6.
Feed control for shaping-machine worktables, Movable and stationary. W. F. Zimmermann and D. V. Waters. 1,690,610; Nov. 6.
Feed control for shaping worktables. H. W. Jacobson. 1,690,583; Nov. 6.
Feed mechanism, Variable-. A. Novick. 1,691,026; Nov. 6.
Feeding device for internal-combustion engines, Fuel-. L. S. Wheeler. 1,690,565; Nov. 6.
Feeding mechanism. C. F. Osgood. 1,690,429; Nov. 6.
Felt products, Making. P. R. Bettison. 1,690,854; Nov. 6.





File. C. E. Bertels. 1,690,812; Nov. 6.
Filling of joint boxes for electric cables. A. E. Wilson. 1,690,658; Nov. 6.
Filling of joint boxes for electric cables and apparatus therefor. A. E. Wilson. 1,690,657; Nov. 6.
Film-treating apparatus. J. G. Capstaff. 1,690,616; Nov. 6.
Filter. A. M. Babitch. 1,690,358; Nov. 6.
Filter, Air. H. E. Birkholz. 1,690,813; Nov. 6.
Filter and method of making. F. E. Dennison and W. S. Ireland. 1,690,282; Nov. 6.
Filter, Household. H. A. Vallez. 1,690,958; Nov. 6.
Filter, Spiral. M. H. Ward. 1,690,564; Nov. 6.
Filtering elements. H. A. Vallez. 1,691,001; Nov. 6.
Fishing apparatus. L. E. Baker. 1,690,440; Nov. 6.
Fishing reel. F. M. Case. 1,690,401; Nov. 6.
Fishplate. M. W. P. McNamara. 1,690,744; Nov. 6.
Fixture, Sanitary. R. E. Crane. 1,690,478; Nov. 6.
Flotation concentration. R. E. Phelan and S. P. Lowe. 1,690,907; Nov. 6.
Flower box. H. D. Shapiro. 1,690,910; Nov. 6.
Fluid-handling suction, and pressure-creating apparatus. B. Skidmore, jr. 1,690,254; Nov. 6.
Fluid-pressure-operated device. B. A. Linderman. 1,690,543; Nov. 6.
Flush-surface fill device. A. T. Wakefield. 1,690,914; Nov. 6.
Focusing light sources in projectors. E. A. Everett. 1,690,364; Nov. 6.
Food product in form of dry powder and making the same. F. W. Robison. 1,690,131; Nov. 6.
Food products, Preparing. W. Jourdan. 1,690,449; Nov. 6.
Foot for a supporting leg, Removable. A. E. Rosenthal. 1,690,754; Nov. 6.
Form and making same, Ornamental. M. Altbuch. 1,690,764; Nov. 6.
Frame: *See*—
Eyeglass frame.
Frame and sash construction, Flexible window. W. Woop. 1,690,518; Nov. 6.
Frame construction. F. A. Whitten. 1,690,351; Nov. 6.
Frame for drawings and the like, Holding. I. Shulman. 1,690,137; Nov. 6.
Frying machine. E. A. Denz, J. T. Kelley, and J. E. Titus. 1,690,104; Nov. 6.
Fuel heater. I. E. Aske. 1,690,520; Nov. 6.
Furnace: *See*—
Electric furnace. Electric resistance furnace.
Furnace. G. F. Beach. 1,690,710; Nov. 6.
Furnace. C. F. Osgood. 1,690,428; Nov. 6.
Furnaces, Air preheater for. W. H. Owen. 1,690,242; Nov. 6.
Furniture tops, Edge construction for. J. A. Fitch and G. C. Brainard. 1,690,286; Nov. 6.
Fuse for drop bombs, Supersensitive. H. M. Brayton. 1,690,331; Nov. 6.
Galosh. W. B. Ihnen. Des. 76,799; Nov. 6.
Gas boiler. E. R. Downe. 1,690,105; Nov. 6.
Gas burner. J. T. McCourt. 1,690,743; Nov. 6.
Gas engine. R. S. Baker. 1,690,321; Nov. 6.
Gas-purification process and apparatus. F. W. Speer, jr. 1,690,437; Nov. 6.
Gate-controlling device, Automatic. L. J. Geobring. 1,690,972; Nov. 6.
Gauge: *See*—
Liquid-level gauge. Pressure gauge.
Micrometer gauge.
Gear operating means. R. J. Clark. 1,690,924; Nov. 6.
Gear for internal-combustion engines, Valve. C. W. Foertsch. 1,690,222; Nov. 6.
Gear-shift indicator. T. Tokuhisa. 1,690,950; Nov. 6.
Gear-shift mechanism, Hand-operated. B. F. Schmidt. 1,690,180; Nov. 6.
Gear-shifting mechanism. E. G. Kesling. 1,690,639; Nov. 6.
Gear, Steering. W. C. Brinton. 1,691,020; Nov. 6.
Gear teeth. S. A. S. Hammar. 1,690,931; Nov. 6.
Gearing, Differential. R. L. Dennison. 1,690,189; Nov. 6.
Gearing mechanism for straw stackers, Reversing. S. G. Mitchinson. 1,690,746; Nov. 6.
Generation or other system, Plural-phase. R. A. Heising. 1,690,226; Nov. 6.
Generator: *See*—
Electric generator. Steam generator.
Glass-delivery apparatus. M. M. Eppstein. 1,690,777; Nov. 6.
Globe-mounting ring. W. Underwood. 1,690,563; Nov. 6.
Gluing machine, Book-back-. J. J. Pleger. 1,690,945; Nov. 6.
Golf-club grip. S. D. Rosan. 1,690,312; Nov. 6.
Golf clubs, Head for. F. A. Waldron. 1,690,388; Nov. 6.
Golf game, Practice. O. C. Currie. 1,690,158; Nov. 6.
Grader. F. R. Hood. 1,690,977; Nov. 6.
Grain separator. C. W. Carter. 1,690,529; Nov. 6.
Gramophone. H. J. Küchenmeister. 1,690,122; Nov. 6.
Grate construction for the ice compartments of refrigerator cars. G. A. Hull. 1,690,412; Nov. 6.
Grinding mill. C. E. Needham. 1,690,125; Nov. 6.
Guard, Wheel. C. A. Scott. 1,691,018; Nov. 6.
Hæmostatic. F. Martinez and A. Gomez. 1,690,869; Nov. 6.
Hair clamp. H. E. Downs. 1,690,106; Nov. 6.
Hair-waving device. A. J. Larm. 1,690,937; Nov. 6.
Handling material, Method of and apparatus for. H. B. Walker. 1,690,603; Nov. 6.
Hanger, S. Bower. 1,690,614; Nov. 6.
Harvester and threshers, Grain-receiving attachment for combined. W. F. Reschke. 1,690,794; Nov. 6.
Harvester, Power-driven corn. T. V. Barnard, R. Mackey, L. Mackey, and L. Mackey. 1,690,509; Nov. 6.
Hasp. N. T. Hasenflue. 1,690,408; Nov. 6.
Heat-exchange apparatus. G. T. Jacocks. 1,691,012; Nov. 6.
Heat exchanger. C. B. Grady. 1,690,108; Nov. 6.
Heat exchanger. C. H. Potts. 1,690,501; Nov. 6.
Heat indicator. J. E. Eshbaugh. 1,690,337; Nov. 6.
Heat treating articles, Apparatus for. W. L. Schulenberg. 1,690,555; Nov. 6.
Heater: *See*—
Air heater. Paper heater.
Electric heater. Tank heater.
Fuel heater. Water heater.
Heater. C. T. Siebs. 1,690,379; Nov. 6.
Heater construction. C. F. Eframson. 1,690,533; Nov. 6.
Heaters, Deflector for motor-vehicle hot-air. M. S. Frankle. 1,690,723; Nov. 6.
Heating and surface-finishing device, Electric. M. Nieto. 1,690,831; Nov. 6.
Heating device. B. W. Macy. 1,690,986; Nov. 6.
Heel-beading machine. E. Erickson. 1,690,191; Nov. 6.
Heel, Rubber. H. G. Norwood. 1,690,696; Nov. 6.
Hoist and coupler, Trailer. W. Mayer. Re17,124; Nov. 6.
Hoist, Hydraulic. J. E. Sederholm. 1,690,181; Nov. 6.
Hoisting drum. R. W. Woodbury. 1,690,151; Nov. 6.
Holder, Flowerpot. I. G. Scott and M. C. Fox. Des. 76,825; Nov. 6.
Holder, Score-pad. J. Gordon. Des. 76,793; Nov. 6.
Holder, Shaving-paper. C. R. Fleischmann. 1,690,858; Nov. 6.
Holder, Sleeve. H. P. Nissen. 1,690,694; Nov. 6.
Holder, Slide. J. H. Brown. 1,690,965; Nov. 6.
Holder, Toothbrush. F. Reich. 1,690,311; Nov. 6.
Hook: *See*—
Choker hook.
Horseshoe, Cushion-tread. R. E. Fruin. 1,690,365; Nov. 6.
Hose clamp. S. C. Lavender. 1,690,643; Nov. 6.
Hot-air register. M. M. Rote. 1,690,948; Nov. 6.
Household commodity indicator. G. B. Hall. 1,690,293; Nov. 6.
Hydrocarbons, Cracking of liquid. O. D. Lucas and E. L. Lomax. 1,690,416; Nov. 6.
Hydrocarbons, Oxidation of. A. W. Burwell. 1,690,768; Nov. 6.
Ice-cream cone. F. W. Lane and K. M. Anderson. 1,690,084; Nov. 6.
Ice-cream cone. J. Shapiro. 1,690,556; Nov. 6.
Ice machines, Air-agitating-tube support for. N. M. Small. 1,690,599; Nov. 6.
Ignition-coil mounting. C. E. Wilson and A. Toelle. 1,690,353; Nov. 6.
Ignition device for liquid-fuel burners. W. W. Williams. 1,691,003; Nov. 6.
Improving the properties of Montan wax. W. Pungs and M. Jahrstorfer. 1,690,876; Nov. 6.
Incinerator, Boiler furnace and garbage. H. E. Wallis. 1,690,260; Nov. 6.
Incubators, Egg turner for. J. Jackson. 1,690,169; Nov. 6.
Indicator: *See*—
Automatic indicator. Household commodity indicator.
Gear-shift indicator.
Heat indicator.
Indicator for automobiles, Fuel-consumption. C. J. Gardeen. 1,690,328; Nov. 6.
Induction motor, Alternating-current. L. Schön. 1,690,953; Nov. 6.
Ink-supplying means for printing presses. A. S. J. Dawe. 1,690,588; Nov. 6.
Inner-tube-inspection apparatus. J. R. Gammeter. 1,690,164; Nov. 6.
Insulator. M. F. H. Gouverneur. 1,690,291; Nov. 6.
Insulator and making the same, Fiber. E. Burke. 1,691,005; Nov. 6.
Insulator pin. A. O. Austin. 1,690,392; Nov. 6.
Insulator pin. C. P. Seyler. 1,690,596; Nov. 6.
Insulator suspension, Multiple-string. R. H. Marvin. 1,690,989; Nov. 6.
Internal-combustion engine. J. W. Teasdale. 1,690,144; Nov. 6.
Internal-combustion engine. F. H. Trego. 1,690,384; Nov. 6.
Inventory. F. O. Goodman. 1,690,576; Nov. 6.
Ironing and pressing machine, Power-operated. H. Pierce. 1,690,431; Nov. 6.
Issuing and recording trade-check credit machine. W. W. Osborne. 1,690,874; Nov. 6.
Joint: *See*—
Pipe joint. Slip joint.
Rail joint.
Joint for artificial limbs, Knee. C. E. Girton. 1,690,194; Nov. 6.
Joint for furniture and the like. C. D. McArthur. 1,690,124; Nov. 6.
Kaleidoscopic designs, Apparatus for producing. L. A. Jones. 1,690,584; Nov. 6.
Keys to key opening cans, Attaching. J. A. Stewart. 1,690,880; Nov. 6.

Kite, Folding. C. N. De Witt. 1,690,362; Nov. 6.
Knee pad. J. H. Du Rocher. 1,690,405; Nov. 6.
Knitting machine and the production of fabrics thereon, Circular-. T. H. Jones. 1,690,729; Nov. 6.
Knitting machine, Circular-. A. E. Page. 1,691,025; Nov. 6.
Knitting machines, Reverse-plating device for circular-. H. Barth. 1,690,268; Nov. 6.
Lace. J. V. Price. Des. 76,821–2; Nov. 6.
Lamp, Portable electric. G. C. Knauff. 1,690,491; Nov. 6.
Lamp, Therapeutic. L. Brown. 1,690,717; Nov. 6.
Lamps, Rebasing-. R. C. Leake. 1,691,014; Nov. 6.
Latch for carriage doors and the like. C. T. Weymann. 1,690,653; Nov. 6.
Latex and product thereof, Using. W. B. Wescott. 1,690,150; Nov. 6.
Lath, Metal. J. H. Killion. 1,690,450; Nov. 6.
Lathes, Work driver for car-wheel. M. W. Shelhouse. 1,690,598; Nov. 6.
Latices, Collecting spray-dried. R. Hopkinson. 1,690,114; Nov. 6.
Leaching process. R. F. Grant, F. B. Richards, and H. E. Wetherbee. 1,690,446; Nov. 6.
Let-off mechanism. J. Northrop. 1,690,424; Nov. 6.
Lifting and tapping butts, Apparatus for. A. E. Adolfsson. 1,690,519; Nov. 6.
Light lock for photographic-film strips. G. Lowkrantz. 1,690,739; Nov. 6.
Lime, Making arsenate of. C. Ellis and V. T. Stewart. 1,690,627; Nov. 6.
Linenlike effect to cotton, Imparting a. H. Egli. 1,690,572; Nov. 6.
Liner safety, Automatic. B. A. Mills. 1,690,173; Nov. 6.
Link for conveyer chains, Inside and outside. C. Rorabeck. 1,690,838; Nov. 6.
Lip-turning machine. E. Erickson. 1,690,190; Nov. 6.
Liquid-level gauge. M. E. Cheney. 1,690,215; Nov. 6.
Liquids, Reducing the viscosity of. E. A. Snow. 1,690,799; Nov. 6.
Liquids, Separation of. H. S. Hele-Shaw and A. Beale. 1,690,537; Nov. 6.
Lithopone. F. G. Breyer and C. W. Farber. 1,690,099; Nov. 6.
Loading means for tile-cleaning machines, Discharge-. H. D. Lillibridge. 1,690,542; Nov. 6.
Lock: *See* Paper-fastener lock.
Lock. A. G. Hatch. 1,690,818; Nov. 6.
Lodge or fraternal paraphernalia. C. E. Williams. 1,690,656; Nov. 6.
Loom for the manufacture of pile fabrics, Power. P. Venail. 1,690,802; Nov. 6.
Lubricating apparatus. M. F. Carr. 1,690,400; Nov. 6.
Lubricating apparatus. P. Upham. 1,690,212; Nov. 6.
Lubricating means for antifriction bearings. F. Leister. 1,691,015; Nov. 6.
Lubricating system. G. R. Siegrist. Re17,126; Nov. 6.
Lubricating system, Automobile chassis-. G. A. Jamerson. 1,690,490; Nov. 6.
Lubricator. G. A. Jamerson. 1,690,636; Nov. 6.
Machine for bending armature conductors. G. W. Elsey. 1,690,336; Nov. 6.
Machine for crushing and shredding sugar cane and like material. F. Maxwell. 1,690,828; Nov. 6.
Machine for forming bag bottoms in bag tubes. J. Duvall. 1,690,626; Nov. 6.
Machine for forming fabric structures. G. E. Bull. 1,690,100; Nov. 6.
Machine for forming shingles. F. W. Preston. 1,690,908; Nov. 6.
Machine for heading blanks. P. H. McCain. 1,690,419; Nov. 6.
Machine for making elastic paper. W. A. Lorenz. 1,690,172; Nov. 6.
Machine for mixing gypsum stucco. C. Payne. 1,690,176; Nov. 6.
Machine for printing rugs. J. B. Campbell. 1,691,021; Nov. 6.
Machine for the manufacture of wire spiral. J. P. and M. Manent. 1,690,452; Nov. 6.
Magnesia product and making the same. T. S. Curtis. 1,690,771; Nov. 6.
Make and break device. F. R. House. 1,690,538; Nov. 6.
Manifolding device. J. Q. Sherman. 1,690,798; Nov. 6.
Marine propulsion and power generator. G. J. Stradinger. 1,690,463; Nov. 6.
Measuring device. D. E. Baine. 1,690,919; Nov. 6.
Measuring the moisture content of materials, Apparatus for. S. S. Amdursky. 1,690,155; Nov. 6.
Measuring the rate of flow of fluids, Apparatus for. G. Sacco Albanèse. 1,690,949; Nov. 6.
Measuring variable forces. J. G. Paulin. 1,690,455; Nov. 6.
Mechanical movement. J. C. Conn. 1,690,096; Nov. 6.
Melting pot, Electric. F. Kuhn and L. H. Thomas. 1,690,415; Nov. 6.
Metal shears. J. Jensen. 1,690,303; Nov. 6.
Metals from ores, Reduction of. J. W. Hornsey. 1,690,820; Nov. 6.
Meter: *See* Brake meter. Recording meter.
Meter mounting. T. J. Newman. 1,690,174; Nov. 6.
Micrometer gauge. J. Lamb. 1,690,733; Nov. 6.
Microscope. R. G. Guthrie. 1,690,677; Nov. 6.
Microtuner for pipe organs. H. C. Teetor and H. S. Mikesell. 1,690,381; Nov. 6.
Milk-dumping device. H. D. Lathrop. 1,690,735; Nov. 6.
Mill: *See* Grinding mill. Pulverizing mill. Oil mill. Rolling mill.
Mill. F. E. Marcy. 1,690,493–6; Nov. 6.
Mill. C. G. Willard. 1,690,497; Nov. 6.
Mirror or similar article. E. G. Blumenfeld. Des. 76,770; Nov. 6.
Mirror or similar article. E. B. Langsdorf. Des. 76,818; Nov. 6.
Modulation-indicating arrangement. W. Schaffer. 1,690,704; Nov. 6.
Moisture-indicating instrument for wood. M. E. Dunlap. 1,690,672. Nov. 6.
Mold: *See* Cake mold. Concrete-block mold.
Molded article and preparing the same. H. E. Manning. 1,690,305; Nov. 6.
Molder. W. O. Vivarttas and L. T. Medholdt. 1,690,146; Nov. 6.
Molding and curing concrete, Method of and apparatus for. M. S. Weaver. 1,690,407; Nov. 6.
Molding machine. W. O. Vivarttas. 1,690,145; Nov. 6.
Molding machine for butter, margarine, and the like. W. Hilgers. 1,690,784; Nov. 6.
Mortar shield. N. E. Clementson. 1,690,856; Nov. 6.
Mortising machine. C. Palmu. 1,690,697; Nov. 6.
Motor: *See* Electromagnetic motor. Induction motor.
Motor. E. G. Gartin. 1,690,484; Nov. 6.
Motor-control mechanism. H. C. A. Meyer. 1,690,646; Nov. 6.
Motor fuel. S. P. Marley and W. A. Gruse. 1,690,988; Nov. 6.
Mounting for indicating instruments for automobiles. P. M. Gelatt. 1,690,575; Nov. 6.
Mounting windows. A. S. Tuñez. 1,690,385; Nov. 6.
Mower. M. Salas. 1,690,950; Nov. 6.
Mower, Lawn. J. F. Hawkins. 1,690,899; Nov. 6.
Musical instrument. R. Howard. 1,690,340; Nov. 6.
Musical instrument, Stringed. C. H. Merritt. 1,690,870; Nov. 6.
Musical instruments, Device for playing. G. Gonzalez. 1,690,860; Nov. 6.
Nail setter. E. F. Malouf. 1,690,987; Nov. 6.
Naphthols, Manufacture of new sulphurized derivatives of. E. Kraus. 1,690,641; Nov. 6.
Negatives, Making duplicate. J. G. Capstaff. 1,690,617; Nov. 6.
Network, Impedance-correcting. K. Küpfmüller. 1,690,233; Nov. 6.
Nitriles, Producing alkylated aliphatic. M. Boekmühl and G. Ehrhart. 1,690,325; Nov. 6.
Nozzle construction, Needle-. L. M. Karnasch. 1,690,685; Nov. 6.
Nozzle, Injection. H. Dorner. 1,690,893; Nov. 6.
Obstetrical instrument. E. Odell. 1,690,942; Nov. 6.
Oil burner. E. L. Reynolds. 1,690,249; Nov. 6.
Oil flotation process. A. W. Hahn. 1,690,225; Nov. 6.
Oil mill. R. C. Hopkins. 1,690,168; Nov. 6.
Operating mechanical rectifiers for alternating current, Arrangement or system for. R. Rüdenberg. 1,690,553; Nov. 6.
Ophthalmic mounting. J. W. Welsh. 1,690,605; Nov. 6.
Optical instrument. F. H. Carssow. 1,690,270; Nov. 6.
Optical instrument. A. P. H. Trivelli. 1,690,602; Nov 6.
Ordnance, Recoil and run-out apparatus for. A. T. Dawson, G. T. Buckham, and J. F. White. 1,690,281; Nov. 6.
Organ. J. H. Hammond, jr. 1,690,577; Nov. 6.
Ornament, Christmas-tree. P. Boehland. 1,690,397; Nov. 6.
Ornament, Radiator. F. C. Ruppel. Des. 76,823; Nov. 6.
Oscillator. J. C. Kane. 1,690,413; Nov 6.
Oscillator spring. L. F. Curtis. 1,690,569; Nov. 6.
Oven, Regenerative coke. G. O. Wolters. 1,690,805; Nov. 6.
Overalls, L. A. Rosenthal. 1,690,318; Nov. 6.
Oxides to metallic form, Reducing. S. Westberg. 1,690,916; Nov. 6.
Package and closure therefor. M. B. Behrman. 1,690,851–2; Nov. 6.
Package and making the same, Chewing-gum. P. L. Becker. 1,690,098; Nov. 6.
Packaging. M. B. Behrman. 1,690,853; Nov. 6.
Packaging device for metal sheets. J. H. O'Neil. 1,690,873; Nov. 6.
Packaging machine. L. Fischer. 1,690,895; Nov. 6.
Packing. W. W. Evans. 1,690,161; Nov. 6.
Pad: *See* Knee pad. Polishing pad.
Padlock M. C. Maxwell. 1,690,938; Nov. 6.
Paper beater. A. C. Bontell. 1,690,661; Nov. 6.
Paper cup, Collapsible. W. J. Main. 1,690,586; Nov. 6.
Paper-fastener lock. F. J. Kline. 1,690,230; Nov. 6.
Paper-folding machine, Automatic. W. J. Jeffries and S. W. Gibbons. 1,690,902; Nov. 6.
Paper making machine. N. J. Niks. 1,690,203; Nov. 6.
Paper, Process and apparatus for making J. C. Corcoran. 1,690,402; Nov. 6.
Paper tubes, Method and machine for making. J. N. Francis. 1,690,287; Nov. 6.
Pattern-displaying device. C. Miller. 1,690,691; Nov. 6.
Pavement. J. B. Strauss. 1,690,259; Nov. 6.





Pencil clip. H. S. Johnson. 1,690,980; Nov. 6.
Penholder support. W. Guyot. Des. 76,794; Nov. 6.
Perforating mechanism, Paper-. D. W. Hudson. 1,690,410; Nov. 6.
Performing pressing operations, Apparatus for. C. Bollinger. 1,690,398; Nov. 6.
Performing pressing operations, Apparatus for. G. A. Pennock. 1,690,457; Nov. 6.
Pharmaceutical compound. W. Schulemann and K. Meisenburg. 1,690,796; Nov. 6.
Phenols, Manufacture of sulphurized derivatives of. E. Kraus. 1,690,640; Nov. 6.
Phonograph. R. Y. Barrows and H. P. Curtis. 1,690,267; Nov. 6.
Phosphorus compound from animal proteids and manufacture thereof. S. Posternak. 1,690,752; Nov. 6.
Physiologically-active substances from ovaries, corpus luteum, and placenta, Manufacture of. M. Hartmann. 1,690,932; Nov. 6.
Piano construction. H. Paley. 1,690,549; Nov. 6.
Pianoforte. R. H. Collen. 1,690,925; Nov. 6.
Picker-stick clamp. J. J. Smith. 1,690,843; Nov. 6.
Picture films, Making motion-. J. F. Seitz. Re17,125; Nov. 6.
Picture frame. J. and M. Pelletier. Des. 76,820; Nov. 6.
Picture projector, Motion-. N. B. Green. 1,690,633; Nov. 6.
Picture screen, Motion-. A. Stuber and E. E. Underwood. 1,690,600; Nov. 6.
Pile fabric. F. W. Mosterts. 1,690,939; Nov. 6.
Pilferproof box. J. Kramer. 1,690,866; Nov. 6.
Piling, Connecting piece for iron sheet. K. Nolte. 1,690,490; Nov. 6.
Pilot-light controller. E. L. Fonseca. 1,690,223; Nov. 6.
Pin: *See* Insulator pin.
Pipe: *See* Tobacco pipe.
Pipe joint, Flexible. E. N. Roth. 1,690,839; Nov. 6.
Piston ring. A. J. Mummert. 1,690,423; Nov. 6.
Plant protector N. M. Brisbois. 1,690,716; Nov. 6.
Planter. H. B. Bonebright. 1,690,884; Nov. 6.
Plaster board, Reenforced-edge. J. Schumacher. 1,690,253; Nov. 6.
Plastic preparation. E. K. O'Brien. 1,690,648; Nov. 6.
Plate or similar article. J. A. Cronin. Des. 76,778; Nov. 6.
Plate or similar article. U. Tomita. Des. 76,831–42; Nov. 6.
Plow, Adjustable. J. Morgan. 1,690,238; Nov. 6.
Plow, Rotary spiral. C. M. Brack. 1,690,922; Nov. 6.
Plug for wells. S. L. Hartman. 1,690,536; Nov. 6.
Plug, Test. W. D. Stoughton. 1,690,183; Nov. 6.
Plug, Tubular fibrous wall. J. J. Rawlings. 1,690,909; Nov. 6.
Poker-chip set. F. R. Belt. 1,690,394; Nov. 6.
Polisher, Wax-distributing floor. E. R. Gedge. 1,691,024; Nov. 6.
Polishing pad. S. Yamanaka. 1,690,960; Nov. 6.
Polishing surfaces composed of cellulose-ester compositions, Composition for. J. E. Hirsh and A. D. Robson. 1,690,680; Nov. 6.
Post: *See* Binder post.
Pot: *See* Melting pot.
Powder puffs and improved puff, Finishing flat. C. H. Fuchs. 1,690,483; Nov. 6.
Power chucking device. E. P. Bullard, jr. 1,690,567; Nov. 6.
Power lift for road machines. R. C. Williamson. 1,690,391; Nov. 6.
Power-transmitting unit for well rigs. E. Pratt. 1,690,376; Nov. 6.
Perserving composition, Wood-. C. Williams and F. Francois. 1,690,390; Nov. 6.
Press. A. Ziska, jr. 1,690,152; Nov. 6.
Press for treating boards of alkali cellulose and the like. W. Dützmann. 1,690,894; Nov. 6.
Pressure detector and signal inner tube, Low-air-. F. J. Austin. 1,690,613; Nov. 6.
Pressure gauge. E. R. Powell. 1,690,245; Nov. 6.
Pressure-test apparatus. W. J. Boyle, jr. 1,690,718; Nov. 6.
Print-flattening device. G. M. Dye. 1,691,023; Nov. 6.
Printing presses, Delivery mechanism for. H. Gearing. 1,690,288; Nov. 6.
Projection system for color motion pictures. J. Mihalyi. 1,690,589; Nov. 6.
Protecting electrical apparatus. L. M. Clement. 1,690,271; Nov. 6.
Protecting highway crossings at the right of way of railways, System for. P. J. Kaveney. 1,690,903; Nov. 6.
Protector, Corn and bunion. S. Biren. 1,690,895; Nov. 6.
Protractor. L. C. Lloyd. 1,690,645; Nov. 6.
Pull switch. D. D. Gordon. 1,690,366; Nov. 6.
Pulverizing mill. L. C. Bonnot. 1,690,712; Nov. 6.
Pump. C. W. Butler and W. A. Sloper. 1,690,923; Nov. 6.
Pump connection. E. R. Evans. 1,690,338; Nov. 6.
Pump, Deep-well. H. Belott. 1,690,393; Nov. 6.
Pump for motors, Water-circulating. C. H. Shirk. 1,690,911; Nov. 6.
Pump plunger. R. H. Lemmon. 1,690,667; Nov. 6.
Pump, Piston. R. J. Fairchild. 1,690,857; Nov. 6.
Pump, Rotary. J. F. Jaworowski. 1,690,727–8; Nov. 6.
Pumping rig. G. Stouffet. 1,690,955; Nov. 6.
Rack for sewing machines, Thread. F. B. Gotchette. 1,690,367; Nov. 6.
Radiator, Sound. C. R. Moore. 1,690,421; Nov. 6.
Radiocabinet. J. Wolff. Des. 76,844; Nov. 6.
Radio sets, Power-supply unit for. F. de Willy. 1,690,814; Nov. 6.
Radiosignaling, Secret. E. L. Chaffee and E. S. Purington. 1,690,719; Nov. 6.
Radio signaling system. A. W. Saunders. 1,690,250; Nov. 6.
Rail anticreeper. P. J. Gillen. 1,690,535; Nov. 6.
Rail joint. B. M. Cheney. 1,690,885; Nov. 6.
Railroad tie. T. De La Mare. 1,690,891; Nov. 6.
Railway signaling. E. C. Sasnett. 1,690,460; Nov. 6.
Railway signaling. E. C. Sasnett. 1,690,506; Nov. 6.
Range, Electric. C. R. Porter. 1,690,946; Nov. 6.
Razor, Safety. M. J. Smith. 1,690,557; Nov. 6.
Razor, Safety. V. P. Yacoubyan. 1,690,608; Nov. 6.
Receptacle, Sheet-metal. V. P. Wendle and M. L. Hunker. 1,690,261; Nov. 6.
Reciprocating engine. W. Nielebock. 1,690,126; Nov. 6.
Recirculating process and apparatus for gas purification. F. W. Speer, jr. 1,690,438; Nov. 6.
Recording meter. P. Richert. 1,691,017; Nov. 6.
Reel: *See* Fishing reel.
Refrigeration. C. C. Spreen. 1,690,314; Nov. 6.
Refrigerator. G. J. Gruendler and W. A. Meletio. 1,690,407; Nov. 6.
Register: *See* Hot-air register.
Register construction for heating plants. E. A. Grapp. 1,690,868; Nov. 6.
Registering cylindrical forms, Method of and apparatus for. A. K. Taylor. 1,690,143; Nov. 6.
Regulating apparatus. W. M. Hepburn. 1,690,819; Nov. 6.
Regulating apparatus. D. V. Mazzocco. 1,690,829; Nov. 6.
Regulator: *See* Voltage regulator.
Removing grain doors, Apparatus for. A. Westling. 1,690,262; Nov. 6.
Repair stand for engines, transmissions, and the like. E. O. Adkins. 1,690,660; Nov. 6.
Resinous composition containing sulphur and making same. C. Ellis. 1,690,160; Nov. 6.
Retarding wagons, tubs, and the like, Apparatus for. B. Norton. 1,690,695; Nov. 6.
Rim, Vehicle wheel. W. A. Jones. 1,690,981; Nov. 6.
Ring: *See* Globe-mounting ring. Piston ring.
Road form. J. N. Heltzel. 1,690,295; Nov. 6.
Road-grading machine. E. S. McCandliss. 1,690,374; Nov. 6.
Road-working machine. E. A. Wheeler. 1,690,263; Nov. 6.
Rod elevator. W. W. Wilson. 1,690,709; Nov. 6.
Rod guide and protector. S. V. Dillon. 1,690,721; Nov. 6.
Rolling mill. J. R. George. 1,690,193; Nov. 6.
Roof. R. C. Neptune. 1,690,792; Nov. 6.
Roof. J. A. Topping. Des. 76,843; Nov. 6.
Roof drain. W. S. Fleming. 1,690,630; Nov. 6.
Rope or cord. C. A. Turner. 1,690,846; Nov. 6.
Rug, Stair. F. Orange. 1,690,991; Nov. 6.
Safety control mechanism for fuel-feeding devices. W. W. Williams. 1,691,002; Nov. 6.
Sanitary hair receiver. C. R. Dickerson. 1,690,927; Nov. 6.
Saw. G. R. Vander Wee. 1,690,803; Nov. 6.
Saw guard. H. A. Hall. 1,690,817; Nov. 6.
Saw jointer. O. St. Clair and B. R. Watson. 1,690,707; Nov. 6.
Saw tooth, Detachable. D. F. McGovern. 1,690,544; Nov. 6.
Sawing machine. L. R. Heston and A. L. Anderson. 1,690,111; Nov. 6.
Saxophone. A. J. Johnson. 1,690,862; Nov. 6.
Scale. N. A. Hallwood. 1,690,196; Nov. 6.
Scale, Weighing. O. Malcher. 1,690,123; Nov. 6.
Scale, Weighing. T. H. Strachan. 1,690,258; Nov. 6.
Scalpers, Reclaiming attachment for. J. J. Varusky. 1,690,513; Nov. 6.
Scraper, Snow. P. A. Crombie, jr. 1,690,886; Nov. 6.
Screed chair. L. R. Owen and O. E. Whiteman. 1,690,903; Nov. 6.
Screen: *See* Picture screen. Window screen.
Screw-feed and rapid-traverse mechanism. R. M. Galloway. 1,690,103; Nov. 6.
Searchlight safety mechanism. M. L. Patterson. 1,690,550; Nov. 6.
Seed-treating machine. C. C. Calkins. 1,690,718; Nov. 6.
Separating liquids of different specific gravity and means therefor. W. G. G. P. Lumsden. 1,690,741; Nov. 6.
Separator: *See* Grain separator.
Sewage treatments, Method of and apparatus for dealing with floating sludge in digestion chambers for. K. Imhoff and F. Fries. 1,690,682; Nov. 6.
Shaft for golf clubs and the like. H. G. Barrett. 1,690,266; Nov. 6.
Shaving implement. J. Schick. 1,690,133; Nov. 6.
Shearing machine. A. Rhodes. 1,690,503; Nov. 6.

Shears: *See*—
Metal shears.
Shingle. L. W. Block. 1,690,396; Nov. 6.
Shirt. E. J. Quigley. 1,690,432; Nov. 6.
Shock absorber. F. C. Mock. 1,690,692; Nov. 6.
Shock absorber. J. R. Snyder. 1,690,256–7; Nov. 6.
Shock absorber. C. W. Thompson. Re17,127; Nov. 6.
Shock absorber, Pneumatic. J. A. Heany. 1,690,110; Nov. 6.
Shoe. C. Miller. 1,690,690; Nov. 6.
Shoe having concealed eyeleting. W. B. Barkley. 1,690,188; Nov. 6.
Shoehorn. B. C. Wickers. 1,690,516; Nov. 6.
Shoe-pressing machine. A. E. Headley. 1,690,197; Nov. 6.
Shoe-pressing machine. F. Ricks and R. B. Woodcock. 1,690,433; Nov. 6.
Shoe sole. A. S. Funk and E. S. Bott. Des. 76,791; Nov. 6.
Shoe, Stitch-down. E. B. Loewenbach. 1,690,737; Nov. 6.
Show case, Refrigerating. M. J. Goalstone. 1,690,485; Nov. 6.
Sign, Advertising. R. H. Watkins. 1,690,149; Nov. 6.
Sign for automobiles, Detachable. J. L. and H. A. Arnold. 1,690,156; Nov. 6.
Sign, Inlaid street directional and instruction. A. P. Sanna. 1,690,842; Nov. 6.
Signal: *See*—
Traffic signal.
Signal switch, Automobile. O. A. Hoeller. 1,690,370; Nov. 6.
Signal system for railroads, Block-. A. J. Vallee. 1,690,387; Nov. 6.
Silk cleaner. F. Bauman. 1,690,522; Nov. 6.
Sintering machine. B. G. Klugh. 1,690,231; Nov. 6.
Skiving machine. A. R. Ridderstrom. 1,690,595; Nov. 6.
Slicing machine. Sanitary butter-. J. S. Donnellan. 1,690,480; Nov. 6.
Slip joint. E. I. Braddock. 1,690,714; Nov. 6.
Socket, Bracket. V. R. Despard. 1,690,283; Nov. 6.
Socket, Candle. K. K. Nielsen. 1,690,693; Nov. 6.
Socket pull-chain guide, Lamp-. C. M. Weeks. 1,690,350; Nov. 6.
Socket-securing means for electric fixtures, Lamp-. H. E. Nickerson. 1,690,940–1; Nov. 6.
Solder and making same, Self-fluxing. J. P. Erich. 1,690,534; Nov. 6.
Sole-pressing machine. E. E. Winkley. 1,690,186; Nov. 6.
Soles, Making shoe. T. B. Huestis. 1,690,115; Nov. 6.
Sound producer. A. F. Peterson. 1,690,177; Nov. 6.
Sound-record tablets, Producing. T. A. Edison. 1,690,159; Nov. 6.
Sound-reproducing device. E. F. Hollinger. 1,690,726; Nov. 6.
Sound waves into electrical waves, System for converting. H. C. Snook. 1,690,255; Nov. 6.
Spark plug, Electrically-heated. 1,690,702; Nov. 6.
Spark plug, Electrically-heated. H. D. Seekamp. 1,690,135; Nov. 6.
Spectacle temple. J. W. Welsh. 1,690,604; Nov. 6.
Speed-control mechanism. F. M. Rosenweig. 1,690,132; Nov. 6.
Speedometer. J. Kruschitzki. 1,690,788; Nov. 6.
Speedometer. J. Zubaty. 1,690,355; Nov. 6.
Splice bar. C. W. Breed. 1,690,471; Nov. 6.
Split reduction device. T. H. Thomas. 1,690,315; Nov. 6.
Spring: *See*—
Oscillator spring.
Spring holding and positioning clip. H. W. Kulp and M. C. Dellinger. 1,690,731; Nov. 6.
Spring pad construction. H. A. Steele. 1,690,652; Nov. 6.
Spring snubber for automobiles. G. B. Hooton. 1,690,113; Nov. 6.
Starch and glucose, Manufacturing. C. R. Brown and H. E. Nelson. 1,690,360; Nov. 6.
Starter, Automatic. F. R. Zumbro and F. Shenton. 1,690,187; Nov. 6.
Stator for electric motors, Removable. C. L. Daun and P. E. Keller. Re17,128; Nov. 6.
Statuette. S. I. Berger. Des. 76,769; Nov. 6.
Steam-generating system. C. Klesselbach. 1,690,120; Nov. 6.
Steam generator, Downflow. F. W. Kronenberg. 1,690,642; Nov. 6.
Steam hot plate. W. H. Appleby. Re17,123; Nov. 6.
Steam plant. F. H. Willcox. 1,690,389; Nov. 6
Steel, Pouring. F. H. Moyer. 1,690,750; Nov. 6.
Steel-pouring device. F. H. Moyer. 1,690,749; Nov. 6.
Steel, Slag and gas eliminator for molten. F. H. Moyer. 1,690,748; Nov. 6.
Steering-gear control. W. C. Gee. 1,690,289; Nov. 6.
Steering mechanism for tractors. J. L. Opitz. 1,690,548; Nov. 6.
Stocking. J. A. Struthers. Des. 76,828; Nov. 6.
Stockings, Making. H. C. Langer. 1,690,734; Nov. 6.
Stoker. A. M. Hunt. 1,690,582; Nov. 6.
Stoker construction. A. M. Hunt. 1,690,116; Nov. 6.
Stoker, Traveling-grate L. W. Klein. 1,690,863; Nov. 6.
Stovepipe-casing coupling. O. C. Trout. 1,690,562; Nov. 6.
Straightening weft in fabrics, Apparatus for. G. Durrant. 1,690,334; Nov. 6.
Strainer and lint catcher, Gasoline. F. C. Reed. 1,690,207; Nov. 6.
Straw or like cutting machine. J. Stokes. 1,690,508; Nov. 6.
Submarine. G. F. Myers. 1,690,547; Nov. 6.
Submarine sound receiver. J. H. Hammond, jr. 1,690,578; Nov. 6.
Sucker rods, Making. F. E. Anderson and F. H. Thorpe. 1,690,612; Nov. 6.
Sugar, Manufacturing corn. C. R. Brown and H. E. Nelson. 1,690,359; Nov. 6.
Sulphur product and making same. C. Ellis. 1,690,335; Nov. 6.
Supplying molten glass to molds, Apparatus for. L. D. Soubier. 1,690,998; Nov. 6.
Supporting pole, Wash-line-. J. Rauhofer. 1,690,947; Nov. 6.
Suspensions, Method and apparatus for producing. F. J. E. China. 1,690,669; Nov. 6.
Switch: *See*—
Electric switch.
Pull switch.
Signal switch.
Temperature-control switch.
Switch movement. C. M. Petersen. 1,690,430; Nov. 6.
Switches for transmission lines, Disconnecting. A. O. Austin. 1,690,357; Nov. 6.
Switching system. R. G. Berthold. 1,690,524; Nov. 6.
Table: *See*—
Embalming table.
Table and chair structure. W. S. Phillips. 1,690,594; Nov. 6.
Tack and brad driver. W. R. McCluney. 1,690,588; Nov. 6.
Tailstock for automatic lathes. J. J. Thacher. 1,690,601; Nov. 6.
Tank heater, Oil-burning stock-. E. Wykes. 1,690,659; Nov. 6.
Tape-serving machine, Gummed-. W. A. Uttz, sr. 1,690,512; Nov. 6.
Teat cup. L. Dinesen. 1,690,327; Nov. 6.
Teeter, Inclined revolving. W. D. Molby. 1,690,590; Nov. 6.
Telephone. F. C. Greene. 1,690,634; Nov. 6.
Telephone and the like. H. J. Round. 1,690,840; Nov. 6.
Telephone equipment. N. C. Webster. 1,690,959; Nov. 6.
Telephone-exchange system, Restricted-service. W. W. Carpenter. 1,690,214; Nov. 6.
Telephone-meter unit. G. Tauchmann. 1,690,464; Nov. 6.
Telephone-receiver support. C. H. Carmer. 1,690,475; Nov. 6.
Telephone system. H. W. O'Neill. 1,690,241; Nov. 6.
Telephone system. A. Ramsford. 1,690,206; Nov. 6.
Telephone system. R. I. Stokely. 1,690,210; Nov. 6.
Telephone system. J. F. Toomey and G. H. Duhnkrack. 1,690,211; Nov. 6.
Temperature-control switch. I. E. McCabe and R. W. Armstrong. 1,691,016; Nov. 6.
Template for striping bodies. C. Ross and J. MacQuaid. 1,690,346; Nov. 6.
Tensioning device for clotheslines. V. P. Tommins. 1,690,957; Nov. 6.
Terminal, Battery. H. E. Pich. 1,690,310; Nov. 6.
Terminal, Contact. A. G. Steinmayer. 1,690,845; Nov. 6.
Testing apparatus, Armature-. L. E. Poole. 1,690,345; Nov. 6.
Testing device. W. T. Booth and A. C. Magrath. 1,690,269; Nov. 6.
Testing device. W. H. Tarver. 1,690,653; Nov. 6.
Testing repeaters, Automatic system for. I. G. Wilson. 1,690,213; Nov. 6.
Textile fabric. J. H. Bunting. Des. 76,774; Nov. 6.
Textile fabric. C. Edlich. Des. 76,784; Nov. 6.
Textile fabric. G. F. Erhard. Des. 76,787; Nov. 6.
Thiocarbanilide, Liquid solution of. H. Gray. 1,690,166; Nov. 6.
Thread guide for shuttles and the like. J. B. Baudelin. 1,690,531; Nov. 6.
Thread-waxing device. E. J. Ray. 1,690,246; Nov. 6.
Ticket, Roll pin. G. W. Henry, jr. 1,690,976; Nov. 6.
Ticketing machines, Stopping and starting mechanism for. G. W. Henry, jr. 1,690,975; Nov. 6.
Tie: *See*—
Railroad tie.
Tie elements, Making. H. E. Kondolf. 1,690,865; Nov. 6.
Time and temperature control of heating elements. G. H. Hart. 1,690,898; Nov. 6.
Tire structure, Cushion-. F. R. Klaus and F. H. Meyer. 1,690,823; Nov. 6.
Tire treads, Manufacture of rubber. H. A. Walter and J. R. Crossan. 1,690,514; Nov. 6.
Tires, Making pneumatic. B. De Mattia. 1,690,624; Nov. 6.
Tires, Manufacturing. T. Norcross. 1,690,240; Nov. 6.
Tobacco pipe. D. F. Zane. 1,690,609; Nov. 6.
Tone receiver for undamped oscillations. J. Zenneck. 1,690,918; Nov. 6.
Tool, Adjustable pipe-bending. W. H. Newland. 1,690,592; Nov. 6.
Tool and tool retainer. J. S. Donaldson. 1,690,571; Nov. 6.
Tool, Lawn-trimming. G. H. Peterson. 1,690,944; Nov. 6.
Tool, Reamer and burnishing. W. A. Koch. 1,690,371; Nov. 6.
Tool retainer. E. W. Stevens. 1,690,559; Nov. 6.
Tool, rule, and drafting and measuring instrument, Combination paper-cutting. I. J. Owen. 1,690,832; Nov. 6.
Tool, Soldering. F. B. Burns. 1,690,101; Nov. 6.





Tools, Turret head for machine. E. P. Bullard, jr. 1,690,568.
Toothbrush. J. Silberstang. 1,690,706; Nov. 6.
Torch machine. J. J. Crowe and J. H. W. Begerow. 1,691,007; Nov. 6.
Towing apparatus. E. G. Livesay. 1,690,372; Nov. 6.
Toy aeroplanes, Hangar for. G. A. Halter. Des. 76,796; Nov. 6.
Toy and making the same, Child's wheel. T. S. Dowst. 1,690,217; Nov. 6.
Toy, Animated. H. F. Bartley. 1,690,811; Nov. 6.
Toy building element. A. C. Gilbert. Des. 76,792; Nov. 6.
Toy, Mechanical. N. Heyman. 1,690,409; Nov. 6.
Toy monoplane. L. Jatunn. 1,690,978; Nov. 6.
Toy, Spinning. C. V. Benson. Des. 76,768; Nov. 6.
Toy trains, Track for. F. Hornby. 1,690,448; Nov. 6.
Toys, Toothed gearing for building. F. Walther. 1,690,349; Nov. 6.
Track drill. J. L. Christian. 1,690,102; Nov. 6.
Tractor. C. C. Stedman. 1,690,141; Nov. 6.
Tractor for cultivators and other machines, Two-wheeled. D. Parrett. 1,690,205; Nov. 6.
Trade-check credit machine. W. W. Osborne. 1,690,875; Nov. 6.
Traffic-controlling apparatus, Railway-. S. M. Lucas. 1,690,235; Nov. 6.
Traffic signal. J. B. Freidah. 1,690,971; Nov. 6.
Trailer hitch. E. B. Staley. 1,690,558; Nov. 6.
Train control. C. S. Bushnell. 1,691,006; Nov. 6.
Train control. W. K. Howe. 1,691,009; Nov. 6.
Train-control-restoring apparatus. H. S. Folker. 1,690,816; Nov. 6.
Train-control system, Automatic. E. C. Sasnett. 1,690,459; Nov. 6.
Train-control system, Automatic. E. C. Sasnett. 1,690,505; Nov. 6.
Transformer. M. Alden. 1,690,154; Nov. 6.
Transformer, High-frequency. R. A. Heising. 1,690,228; Nov. 6.
Transmission. J. J. Cole. 1,690,968; Nov. 6.
Transmission by modulated waves. R. A. Heising. 1,690,227; Nov. 6.
Transmission for train-control systems, Governor. H. B. Taylor. 1,691,000; Nov. 6.
Transmission-line device. F. H. Miller. 1,690,200; Nov. 6.
Transmission-line device. R. M. Stumm. 1,690,184; Nov. 6.
Transmission-line device. N. J. A. Wahlberg. 1,690,185; Nov. 6.
Transmission of pictures by electricity. J. W. Horton. 1,690,300; Nov. 6.
Transmission system, Wave-. E. W. Gent. 1,690,224; Nov. 6.
Transmitter, Gyrocompass. C. B. Mills. 1,690,545; Nov. 6.
Transmitting signs, Apparatus for. K. E. Wenzel. 1,690,915; Nov. 6.
Transporter. H. O. Nelson. 1,690,454; Nov. 6.
Trap: *See*—
Animal trap.
Treating gases bearing gaseous synthetic ammonia. W. H. Kniskern. 1,690,585; Nov. 6.
Treating oils, Apparatus for. C. P. Dubbs. 1,690,997; Nov. 6.
Treating solid materials with liquid reagents. J. E. Egleson. 1,690,363; Nov. 6.
Treatment of ferrous metals to produce a protective coating thereon. F. B. Rinck. 1,690,378; Nov. 6.
Treatment of hides and skins. H. Dodge. 1,690,969; Nov. 6.
Treatment of mineral oils. T. G. Delbridge and H. F. Dure. 1,690,772; Nov. 6.
Treatment of paper. D. Genese. 1,690,631; Nov. 6.
Trimming machine. G. J. Julian. 1,690,198; Nov. 6.
Trolley head. H. P. Chandler. 1,690,618; Nov. 6.
Trough, Hog. C. Weaber. 1,690,762; Nov. 6.
Truck, Industrial. A. G. Hutzley. 1,690,681; Nov. 6.
Tube-bending machine. C. H. Frederick. 1,690,724; Nov. 6.
Tube-severing machine. C. F. Smith. 1,690,209; Nov. 6.
Tumbler, Glass. S. A. Langenbaker. Des. 76,817; Nov. 6.
Turbine, Hydraulic. L. F. Moody. 1,690,237; Nov. 6.
Twister traveler. P. C. Wentworth. 1,690,468; Nov. 6.
Twisting strands, Method of and apparatus for. A. Marchev. 1,690,373; Nov. 6.
Type-printing telegraphy and other purposes, Selecting mechanism for. T. J. Berryman. 1,690,324; Nov. 6.
Typewriter or the like machine, Line-printing. W. Schäffer. 1,690,879; Nov. 6.
Typewriters, Device for the erection and keeping of. K. A. A. Johansson. 1,690,822; Nov. 6.
Typewriting machine. B. F. Barker. 1,690,848; Nov. 6.
Typewriting machine. A. G. F. Kurowski. 1,690,825–6; Nov. 6.
Typewriting machine. A. G. F. Kurowski. 1,690,867; Nov. 6.
Typewriting machine. J. A. B. Smith. 1,690,844; Nov. 6.
Unit-measuring machines, Cup-depositing mechanism for. C. N. Bergmann and E. Z. and C. Taylor. 1,690,920; Nov. 6.
Universal curve device. N. E. Klein. 1,690,540; Nov. 6.
Vacuum-feed system. G. C. Nelson. 1,690,202; Nov. 6.
Vacuum-jacketed vessel. O. T. K. Schmidt. 1,690,880; Nov. 6.
Vacuum-operated liquid-lifting device. T. F. Spackman. 1,690,140; Nov. 6.
Vacuum tube and associated element. W. H. T. Holden. 1,690,167; Nov. 6.
Vacuum tube and socket. J. J. Kuhn. 1,690,232; Nov. 6.
Valance, Window. F. E. and J. E. Hood and A. G. Morrison. 1,690,298; Nov. 6.
Valve. L. Schlesinger and H. E. Heine. 1,690,251; Nov. 6.
Valve, Air. W. A. Russell. 1,690,554; Nov. 6.
Valve, Automatic hydraulic. W. L. Gilchrist. 1,690,165; Nov. 6.
Valve construction. J. L. Fitzpatrick. 1,690,162; Nov. 6.
Valve for air-brake apparatus, Vent. W. Astle. 1,690,776; Nov. 6.
Valve for bath fixtures, Combined mixing and delivery. L. Bloch. 1,690,767; Nov. 6.
Valve for rock drills, Shifting-fulcrum. L. C. Bayles and F. M. Slater. 1,690,810; Nov. 6.
Valve housing. H. Sieben. 1,690,461; Nov. 6.
Valve, Locomotive-tender tank. O. S. Matthews. 1,690,742; Nov. 6.
Valve or the like, Faucet. S. Smith. Des. 76,827; Nov. 6.
Valve, Plate. S. B. Redfield. 1,690,836; Nov 6.
Valve, Safety. G. Ackermann. 1,690,097; Nov. 6.
Valve, Safety. R. C. Allen. 1,690,093; Nov. 6.
Valve-spring lifter or compressor, Heavy-duty. H. W. Kulp and M. C. Dellinger. 1,690,732; Nov. 6.
Vanity box and compact therefor. J. L. McAtree. 1,690,587; Nov. 6.
Vanity case. C. N. Coryell. 1,690,274–6; Nov. 6.
Vanity case. C. N. Coryell. 1,690,278; Nov. 6.
Vanity case. P. A. Reutter. 1,690,552; Nov. 6.
Vanity case, Sectional-wall. C. N. Coryell. 1,690,277; Nov. 6.
Vanity case, Sectional-wall. C. N. Coryell. 1,690,408; Nov. 6.
Vault, Burial. M. E. Stow. 1,690,560; Nov. 6.
Vehicle, Child's. F. F. Taylor. Des. 76,829; Nov. 6.
Vehicle controlling means. D. E. Gordon and G. S. Frazer. 1,690,973; Nov. 6.
Vehicle, Heavy-duty. F. M. Reid. 1,690,247; Nov. 6.
Vehicle wheel. J. G. Swain. 1,690,999; Nov. 6.
Vehicles, Traction device for E. W. Ehlert. 1,690,970; Nov. 6.
Velocipede. G. N. Madsen. 1,690,342; Nov. 6.
Ventilating system. F. E. McDevitt and H. A. Colburn. 1,690,905; Nov. 6.
Ventilation system for internal-combustion engines, Crank-case. F. O. Clements. 1,690,332; Nov. 6.
Ventilator: *See*—
Window ventilator.
Ventilator. F. B. Fowler. 1,690,445; Nov. 6.
Vibrator. U. S. James. 1,690,901; Nov. 6.
Vise, Eccentric. W. F. Zimmermann. 1,690,611; Nov. 6.
Voile fabric, Flocked. K. G. Currier and J. Heinrich. Des. 76,779–82; Nov. 6.
Voltage regulator. G. B. Crouse and J. L. Jatlow. 1,691,022; Nov. 6.
Voltage transformer for electric-arc cutting and welding apparatus, Variable. F. C. Owen. 1,690,943; Nov. 6.
Vulcanizing tires, Mechanism for. W. B. Burke. 1,690,615; Nov. 6.
Wall board. W. M. Jenkins. 1,690,229; Nov. 6.
Wall structure, Retaining-. J. W. Shimek. 1,690,136; Nov. 6.
Warp stop motion for looms. H. Bruneau. 1,690,921; Nov. 6.
Warp-twisting-in machines, Thread feeder for. J. H. Becker. 1,690,157; Nov. 6.
Washing machine. G. E. Hazard and H. F. Boe. 1,690,974; Nov. 6.
Water heater, Gas. R. G. Griswold. 1,691,008; Nov. 6.
Weighing mechanism, Automatic. F. S. Hebden. 1,690,679; Nov. 6.
Welding apparatus, Automatic control device for electric-arc. W. R. Hume. 1,690,489; Nov. 6.
Welding parts. E. Pugh. 1,690,377; Nov. 6.
Well packer, Screw-type. H. Thomson. 1,690,383; Nov. 6.
Wheel: *See*—
Vehicle wheel.
Window. J. Antal. 1,690,807; Nov. 6.
Window. P. R. Nye. 1,690,204; Nov. 6.
Window. A. S. Tuñez. 1,690,386; Nov. 6.
Window cleaner. C. A. Hoff. 1,690,581; Nov. 6.
Window screen. L. G. Beers. 1,690,094; Nov. 6.
Window screen, Adjustable. R. L. Radford. 1,690,649; Nov. 6.
Window shutter or shield, Collapsible. I. Lennox. 1,690,644; Nov. 6.
Window ventilator. A. A. Miller. 1,690,830; Nov. 6.
Windows, Device for adjusting casement. W. R. Parsons. 1,690,127; Nov. 6.
Windshield for grain harvesters. G. Chaney. 1,690,966; Nov. 6.
Wire, Pile. J. Bagley. 1,690,320; Nov. 6.
Woven material. F. R. Elston. 1,690,776; Nov. 6.
Wringer: *See*—
Clothes wringer.
Wristlet, note pad, and pencil holder, Combined. A. B. Clark and A. C. Koester. Des. 76,777; Nov. 6.
X-ray apparatus. M. Morrison. 1,690,906; Nov. 6.

# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 6, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.

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81— 3.1: 1,690,982
15: 1,690,592
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83— 7: 1,690,668
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13: 1,690,667
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28: 1,690,718
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73: 1,690,176
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84— 88: 1,690,577
84— 180: 1,690,549
212: 1,690,925
269: 1,690,870
308: 1,690,340
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385: 1,690,862
464: 1,690,279
85— 4: 1,690,456
87— 17: 1,690,622
88— 2.7: 1,690,270
16: R. 17,125
16.4: 1,690,589
16.8: 1,690,770
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91— 39: 1,691,024
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68: 1,690,426
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92— 7: 1,690,954
22: 1,690,661
38: 1,690,402
44: 1,690,203
56: 1,690,528
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69: 1,690,172
1,690,411
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93— 7: 1,690,895
21: 1,690,626
81: 1,690,287
94— 1.5: 1,690,842
12: 1,690,259
95— 9: 1,690,739
31: 1,690,673
34: 1,690,292
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94: 1,690,616
96— 15: 1,690,897
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97— 8: 1,690,525
18: 1,690,751
19: 1,690,928
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215: 1,690,252
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227: 1,690,944
98— 2: 1,690,723
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114: 1,690,948
99— 2: 1,690,799
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11: 1,690,131
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100— 47: 1,690,828
101— 93: 1,690,488
1,690,879
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103— 3: 1,690,254
103: 1,690,911
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103— 139: 1,690,727
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236: 1,690,140
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104— 26: 1,690,915
101: 1,690,502
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105— 119: 1,691,000
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409: 1,690,170
106— 22: 1,690,335
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107— 51: 1,690,526
54: 1,690,882
108— 7: 1,690,396
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113— 110: 1,690,534
114— 16: 1,690,547
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115— 17: 1,690,435
64: 1,690,463
116— 34: 1,690,613
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114: 1,690,121
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124: 1,690,956
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118— 61: 1,690,468
119— 44: 1,690,169
61: 1,690,762
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84: 1,690,980
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65: 1,690,321
79: 1,690,384
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149: 1,690,248
169: 1,690,135
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171: 1,690,332
174: 1,690,703
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125— 22: 1,690,544
126— 36: 1,690,290
77: 1,690,527
99: 1,690,533
275: 1,690,946
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127— 39: 1,690,359
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128— 153: 1,690,395
258: 1,690,930
344: 1,690,995
361: 1,690,942
129— 16.7: 1,690,965
35: 1,690,317
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168: 1,690,889
131— 12: 1,690,609
132— 7: 1,690,516
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83: 1,690,274
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134— 26: 1,690,515
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135— 6: 1,690,285
136— 144: 1,690,573
182: 1,690,500
137— 21: 1,690,742
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1,690,097
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104: 1,690,165
111: 1,690,461
138— 10: 1,690,306
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23: 1,690,413
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110: 1,690,424
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141— 6: 1,690,758
9: 1,690,974
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149— 5: 1,690,969
153— 1.5: 1,690,565
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154— 2: 1,690,514
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45.5: 1,690,161
45.9: 1,690,229
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155— 45: 1,690,797
80: 1,690,594
156— 13: 1,690,298
14: 1,690,649
158— 28: 1,691,002
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36: 1,690,565
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63: 1,690,249
109: 1,690,743
115: 1,690,223
161— 9: 1,690,847
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164— 28: 1,690,908
57: 1,690,303
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167— 2: 1,690,760

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172— 126: 1,690,348
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173— 259: 1,690,310
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334: 1,690,759
354: 1,690,283
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366: 1,690,291
174— 89: 1,690,926
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41.5: 1,690,095
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339: 1,690,147
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363: 1,690,814
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364: 1,690,553
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115: 1,690,725
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179— 147: 1,690,475
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155: 1,690,634
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175: 1,690,213
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90: 1,690,575
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182— 31: 1,690,630
183— 9: 1,690,813
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184— 7: R. 17,126
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187— 11: 1,690,107
188— 88: 1,690,546
89: 1,690,113
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69: 1,690,907
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23: 1,690,272
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217— 12: 1,690,294
56: 1,690,896
125: 1,690,722
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19: 1,690,246
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221— 47.3: 1,690,923
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223— 64: 1,690,614
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227— 28: 1,690,720
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43: 1,690,701
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232— 17: 1,690,967
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98: 1,690,756
144: 1,690,464
236— 62: 1,690,554
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238— 63: 1,690,891
184: 1,690,744
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244— 1: 1,690,791
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246— 34: 1,690,506
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253— 24: 1,690,685
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256: R. 17,123
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46: 1,690,236
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85: 1,690,774
86: 1,690,900
90: 1,690,783
101: 1,690,620
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105: 1,690,705
106: 1,690,647
109: 1,690,785
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261— 15: 1,690,962
90: 1,690,635
262— 3: 1,690,446
263— 6: 1,690,428
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246— 34: 1,690,506
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59: 1,690,460
63: 1,690,235
264— 13: 1,690,355
15: 1,690,788
265— 9: 1,690,679
12: 1,690,171
39: 1,690,258
265— 48: 1,690,123
58: 1,690,196
266— 1.5: 1,690,273
1,690,678
1,690,795
21: 1,690,231
23: 1,691,007
37: 1,690,748
267— 8: R. 17,127
9: 1,690,092
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35: 1,690,110
74: 1,690,957
268— 117: 1,690,127
270— 41: 1,690,288
81: 1,690,902
271— 2.6: 1,690,512
272— 50: 1,690,590
273— 35: 1,690,158
54: 1,690,539
65: 1,690,162
77: 1,690,388
80: 1,690,266
81: 1,690,312
148: 1,690,394
274— 23: 1,690,122
277— 20: 1,690,767
57: 1,690,251
280— 33.1: R. 17,124
33.15: 1,690,558
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87: 1,690,548
89: 1,690,289
91: 1,691,020
106: 1,690,351
284— 17: 1,690,713
19: 1,690,216
285— 93: 1,690,839
129: 1,690,562
292— 226: 1,690,655
340: 1,690,408
293— 55: 1,690,821
1,690,861
1,690,961
58: 1,691,018
294— 1: 1,690,262
91: 1,690,709
299— 133: 1,690,893
300— 3: 1,690,420
301— 18: 1,690,969
19: 1,690,823
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124: 1,690,510
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303— 6.1: 1,690,265
18: 1,690,315
1,690,816
306— 19: 1,690,530
113: 1,690,301
166: 1,690,425
167: 1,691,015
312— 28: 1,690,822
44: 1,690,920
79: 1,690,699
114: 1,690,485


Nov. 13, 1928

# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. B. A. Specialties Company, Inc., New York, N. Y. Separable garment fasteners, together with draw strings for undergarments and shoulder straps. 249,297; Nov. 13; Serial No. 254,023; published Aug. 21, 1928. Class 40.

Abrasive Company, Philadelphia, Pa. Abrasive grinding and polishing wheels. 249,417; Nov. 13; Serial No. 265,875; published Aug. 7, 1928. Class 4.

Acme Brick Company, Fort Worth, Tex. Brick. 249,533; Nov. 13. Class 12.

Agfa Ansco Corporation. (See Ansco Photoproducts, Inc., assignor.)

Aktiebolaget Sveriges Forenade Konservfabriker, Gottenborg, Sweden. Canned fish. 249,486; Nov. 13; Serial No. 267,626; published Sept. 4, 1928. Class 46.

Alexander Molasses Company, Cincinnati, Ohio. Liquid citrus pectin. 249,327; Nov. 13; Serial No. 269,930; published Sept. 4, 1928. Class 46.

Alkaloi Company, Taunton, Mass. Medicinal compound. 70,850; renewed Oct. 13, 1928.

Alta Vista Company. (See De La Montanya, Pierre.)

American Cyanamid Company, New York, N. Y. Insectifuges, demothing and moth-resisting compounds. 249,480; Nov. 13; Serial No. 267,687; published Aug. 14, 1928. Class 6.

American Device Mfg. Company. (See Greenstreet, Oliver P.)

American Pin Co., The, assignor to Scoville Manufacturing Company, Waterbury, Conn. Hooks and eyes. 32,033; renewed Oct. 4, 1928.

Ansco Photoproducts, Inc., assignor to Agfa Ansco Corporation, Binghamton, N. Y. Photographic cameras. 249,472; Nov. 13; Serial No. 261,094; published Sept. 4, 1928. Class 26.

Antidolor Mfg. Co., The. (See Waitte, Ralph B.)

Arden, Elizabeth, Inc., New York, N. Y. Perfume, toilet water, etc. 249,444–8; Nov. 13; Serial Nos. 267,917–21; published Aug. 14, 1928. Class 6.

Armstrong Cork Company, Pittsburgh, Pa. Insulating material containing cork. 72,785; renewed Feb. 23, 1929.

Asepting Products Company. (See Ross, Leo.)

Askam, Le Roy, Milford, Conn. Electrically-operated windshield cleaners. 249,516; Nov. 13; Serial No. 267,028; published Aug. 21, 1928. Class 29.

Associated Apparel Industries, Inc. (See Gossard, H. W., Co., The.)

Atlantic Chemical Company, Irvington, N. J. Lacquer, paint enamels, primers, etc. 249,269; Nov. 13; Serial No. 268,138; published Aug. 28, 1928. Class 16.

Auerbach Company, Salt Lake City, Utah. Absorbent cotton. 249,347; Nov. 13; Serial No. 269,078; published Aug. 28, 1928. Class 44.

Ault-Williamson Shoe Co., Auburn, Me. Shoes. 249,452; Nov. 13; Serial No. 267,827; published Aug. 21, 1928. Class 39.

B & C Chemical Co., Ridgefield, N. J. Preparation composed of chemicals and oils. 249,425; Nov. 13; Serial No. 265,360; published Aug. 21, 1928. Class 6.

Badger Brass Mfg. Co., The, Kenosha, Wis., to C. M. Hall Lamp Company, Detroit, Mich., successor. Lighting apparatus. 73,132; renewed Mar. 16, 1929.

Barker's, Thomas H., Sons Company, Gladwyne, Pa. Spun rayon yarn. 249,321; Nov. 13; Serial No. 269,572; published Sept. 4, 1928. Class 43.

Berg, F., & Company, Norwalk, Conn. Men's felt hats. 249,426; Nov. 13; Serial No. 265,313; published Aug. 21, 1928. Class 39.

Berkeley Company, Chicago, Ill. Sanitary napkins. 249,257; Nov. 13; Serial No. 268,479; published Aug. 21, 1928. Class 44.

Bernet, Craft & Kauffman Milling Company, St. Louis, Mo. Middlings. 249,385; Nov. 13; Serial No. 252,816; published May 15, 1928. Class 46.

Berth Robert-Gross Inc., New York, N. Y. Cotton and linen piece goods. 249,353; Nov. 13; Serial No. 269,218; published Sept. 4, 1928. Class 42.

Bertram, Chr., Stendal, Germany. Food preservatives. 249,360; Nov. 13; Serial No. 269,279; published Aug. 28, 1928. Class 6.

Biagi, Ada, Memphis, Tenn. Prepared mustard. 249,534; Nov. 13. Class 46.

Bleistift-Fabrik vorm. Johann Faber A.-G., Nuremberg, Germany. Pencils. 72,352; renewed Jan. 19, 1929.

Bleistift-Fabrik vorm. Johann Faber A. G., Nuremberg, Germany. Pencils, penholders, rubber erasers, etc. 71,572; renewed Dec. 1, 1928.

Bocchio, Luisa, doing business as Louisa Bocchio & Co., Garfield, N. J. Salve. 249,318; Nov. 13; Serial No. 269,507; published Aug. 21, 1928. Class 6.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 249,280; Nov. 13; Serial No. 266,785; published Aug. 21, 1928. Class 6.

Bohn Aluminum & Brass Corporation, Detroit, Mich. Bearings for machinery. 249,460; Nov. 13; Serial No. 264,793; published Sept. 4, 1928. Class 23.

Bohne Bros. & Co., assignor to Bohne Bros. & Co. Inc., New York, N. Y. Collars. 32,626; renewed Mar. 28, 1929.

Bon A Fide Products Corporation, New York and Brooklyn, N. Y. Linoleum and oilcloth floor covering, etc. 249,384; Nov. 13; Serial No. 259,893; published Sept. 4, 1928. Class 20.

Boston Gear Works, Inc., Norfolk Downs (Quincy), Mass. Gears and pinions. 249,354; Nov. 13; Serial No. 260,221; published Sept. 4, 1928. Class 23.

Bourjois, Inc., New York, N. Y. Face powder and compacts. 249,303; Nov. 13; Serial No. 256,443; published Aug. 14, 1928. Class 6.

Bowman, Harvey, doing business as The Sunolive Home, Mapleglen, Pa. Medicinal salve. 249,495; Nov. 13; Serial No. 267,347; published Aug. 21, 1928. Class 6.

Braithwaite, Isaac, & Son, Engineers, Limited, Kendal, England. Sewing machines, felling machines, etc. 249,333; Nov. 13; Serial No. 270,009; published Sept. 4, 1928. Class 23.

Brandt, William S., doing business as Smart Fashion Dress Co., also Smart Dress Co., New York, N. Y. Ladies' and misses' dresses. 249,237; Nov. 13; Serial No. 266,643; published Aug. 28, 1928. Class 39.

Braun, Samuel J., Toledo, Ohio., assignor, by mesne assignments, to Carman & Co. Inc., New York, N. Y. Washing powder. 31,884; renewed Aug. 16, 1928.

Brighton Mills, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J. Netted woven cord fabrics of cotton. 249,287; Nov. 13; Serial No. 260,979; published Sept. 4, 1928. Class 42.

British Drug Houses, Limited, The, London, England. Medicinal preparation containing vitamin D. 249,273; Nov. 13; Serial No. 266,972; published Aug. 21, 1928. Class 6.

Bronston Bros. and Co., Inc., New York, N. Y. Hats. 249,484–5; Nov. 13; Serial Nos. 267,629–30; published Aug. 21, 1928. Class 39.

Brown & Bigelow, St. Paul, Minn. Wall calendars, wall mailing cards, etc. 249,433; Nov. 13; Serial No. 264,138; published Aug. 28, 1928. Class 38.

Brown Remedy Co., Inc., Warsaw, N. C. Medicinal preparation. 249,369; Nov. 13; Serial No. 257,782; published Aug. 21, 1928. Class 6.

Brownell & Field Co., Providence, R. I. Canned fruits, vegetables, and berries, egg noodles, rice, etc. 249,393; Nov. 13; Serial No. 268,767; published Aug. 28, 1928. Class 46.

Bryan, William R., Altoona, Pa. Preparation for treating blood poisoning and skin eruptions, etc. 249,423; Nov. 13; Serial No. 265,422; published Aug. 28, 1928. Class 6.

Bryce & Weston Limited, London, England. Collars for wear. 249,409; Nov. 13; Serial No. 263,748; published Aug. 21, 1928. Class 39.

Buckeye Steel Castings Company, The, Columbus, Ohio. Railway-truck bolsters, side frames, and spring planks. 249,355; Nov. 19, Serial No. 269,222; published Sept. 4, 1928. Class 19.

Burdsal, A., Company, The, Indianapolis, Ind. Floor paint. 72,852; renewed Mar. 2, 1929.

Burge, John W., Crichton, Ala. Babbitt metal. 249,415; Nov. 13; Serial No. 265,947; published Aug. 28, 1928. Class 14.

Butterfield, Fred, & Co., Inc., New York, N. Y. Buttons, braids, tapes, and dress shields. 249,435; Nov. 13; Serial No. 264,285; published July 24, 1928. Class 40.

C. & M. Hosiery Mills, Inc., Oxford, N. C. Hosiery and underwear. 249,477; Nov. 13; Serial No. 267,746; published Aug. 21, 1928. Class 39.

California Medicinal Wine Co. (See Val Bros.)

Caplain & Goldman, New York, N. Y. Men's hats. 249,290; Nov. 13; Serial No. 250,439; published Aug. 7, 1928. Class 39.

Carman & Co. Inc. (See Braun, Samuel J., assignor.)

Cavendish Chemical Corp., New York, N. Y. Preparation for treatment of rheumatism, etc. 249,394; Nov. 13; Serial No. 268,769; published Aug. 28, 1928. Class 6.

Chemical Foundation, Incorporated, The. (See Eberhard Von Bodenhausen, assignor.)

Chemical Foundation, Incorporated, The. (See Farbwerke, vormals Meister, Lucius and Brüning, assignor.)

Chemical Foundation, Incorporated, The. (See Flügger & Boecking, assignor.)

Chemical Foundation, Incorporated, The. (See Gans, Ludwig W., assignor.)

Chemical Foundation, Incorporated, The. (See Kalle & Co., assignor.)

Chemical Foundation, Incorporated, The. (See Martellin Gesellschaft mit beschränkter Haftung, assignor.)

Chemical Foundation, Incorporated, The. (See Pharmaceutisches Institut Ludwig Wilhelm Gans, assignor.)

Chemische Fabrik Güstrow Dr. Hillringhaus & Dr. Hellmann Aktiengesellschaft, Gustrow, Germany. Yohimbin and other alkaloid or glycosid preparations. 249,461; Nov. 13; Serial No. 263,072; published Aug. 14, 1928. Class 6.

Chemische Fabrik von Heyden A. G., Radebeul, near Dresden, Germany. Sodium-p. toluenesulfochloramide, etc. 249,391; Nov. 13; Serial No. 268,729; published Aug. 28, 1928. Class 6.

Chemische Fabrik von Heyden A. G., Radebeul, near den, Germany, assignor to Heyden Chemical Corporation, Inc., New York, N. Y. Mixtures of soap and Na-p. toluene-sulfochloramide, etc. 249,520; Nov. 13; Serial No. 239,966; published Aug. 28, 1928. Class 4.
Cheney Brothers, South Manchester, Conn. Cravats and neckties. 249,535; Nov. 13. Class 39.
Chesterman-Leeland Company, Philadelphia, Pa. Elastic webbing. 249,476; Nov. 13; Serial No. 261,239; published Aug. 7, 1928. Class 40.
Chicago Pneumatic Tool Company, New York, N. Y. Electrical apparatus and machines. 249,258; Nov. 13; Serial No. 268,481; published Aug. 28, 1928. Class 21.
Cole Manufacturing Company, Chicago, Ill., and Council Bluffs, Iowa, to Cole Manufacturing Company, Chicago, Ill. Stoves, furnaces, and ranges. 71,865; renewed Dec. 15, 1928.
Colortone Company, Inc., The, Milwaukee, Wis. Food colors. 249,278; Nov. 13; Serial No. 266,850; published Aug. 14, 1928. Class 6.
Columbia Hat Manufacturing Co. Inc., New York, N. Y. Men's and boys' straw hats. 249,289; Nov. 13; Serial No. 250,297; published Aug. 7, 1928. Class 39.
Commercial Solvents Corporation, Terre Haute, Ind. Normal butyric aldehyde, synthetic resins, etc. 249,491; Nov. 13; Serial No. 267,407; published Aug. 14, 1928. Class 6.
Commutator Cleanser Co., Brooklyn, N. Y. Cleaning compound for metals. 249,471; Nov. 13; Serial No. 268,967; published Aug. 28, 1928. Class 4.
Conley, Christopher H., doing business as Conley's Bird Supply House, Fort Wayne, Ind. Tonic for birds. 249,381; Nov. 13; Serial No. 259,622; published Aug. 28, 1928. Class 6.
Consolidated Press Association, Washington, D. C. Newspaper articles. 249,540; Nov. 13. Class 38.
Corinna Incorporated, doing business as Frezo Laboratories, New York, N. Y. Shaving cream. 249,311; Nov. 13; Serial No. 268,272; published Aug. 28, 1928. Class 4.
Cotton, John, Limited, Edinburgh, Scotland. Smoking tobacco. 249,294; Nov. 13; Serial No. 252,471; published Sept. 4, 1928. Class 17.
Crandall Packing Company, Palmyra, N. Y. Packings. 32,487; renewed Feb. 7, 1929.
Cusack, Edward C., New York, N. Y. Puzzles and games. 249,248; Nov. 13; Serial No. 266,303; published Aug. 28, 1928. Class 22.
Cyano-Art Co., The. (See Lohman, Southgate L.)
Cyclops Steel Company, Inc., Titusville, Pa. Chromiumtungsten die steels. 249,427; Nov. 13; Serial No. 265,146; published Aug. 28, 1928. Class 14.
Cyclops Steel Company, Inc., Titusville, Pa. Chromiumtungsten die steels. 249,428; Nov. 13; Serial No. 265,144; published Aug. 28, 1928. Class 14.
Cyclops Steel Company, Inc., Titusville, Pa. Steels. 249,429; Nov. 13; Serial No. 265,143; published Aug. 28, 1928. Class 14.
Dallas Druggists Syndicate, Dallas, Tex. Insecticide. 249,243; Nov. 13; Serial No. 266,360; published Aug. 14, 1928. Class 6.
Dallas Druggists Syndicate, Dallas, Tex. Medicinal preparation for indigestion, etc. 249,244; Nov. 13; Serial No. 266,359; published Aug. 14, 1928. Class 6.
Dallas Druggists Syndicate, Dallas, Tex. Medicated foot lotion. 249,245; Nov. 13; Serial No. 266,358; published Aug. 14, 1928. Class 6.
Davis & Thompson Company, West Allis, Wis. Drilling machine. 249,532; Nov. 13; Serial No. 247,782; published Sept. 4, 1928. Class 23.
Deal, Seraph J., doing business as Mum Manufacturing Company, Philadelphia, Pa. Toilet deodorants. 72,837; renewed Mar. 2, 1929.
Dearmitt, John F., Florence, Ariz. Preparation for the treatment of cougha etc. 249,275; Nov. 13; Serial No. 266,918; published Aug. 28, 1928. Class 6.
De Charles, Robert. (See Geiser, Emile.)
De La Montanya, Pierre, doing business as Alta Vista Company, San Francisco, Calif. Beverages. 249,272; Nov. 13; Serial No. 266,980; published Sept. 4, 1928. Class 45.
De La Montanya, P., doing business as Mount Rouge Company, San Francisco, Calif. Medicinal tonic. 249,348; Nov. 13; Serial No. 269,098; published Aug. 28, 1928. Class 6.
De La Montanya, P., doing business as Mount Rouge Company, San Francisco, Calif. Wines. 249,349; Nov. 13; Serial No. 269,100; published Sept. 4, 1928. Class 47.
Dental Manufacturing Company Limited, The, London, England. Plastic preparations for making dentures. 249,270; Nov. 13; Serial No. 268,148; published Aug. 28, 1928. Class 44.
Detroit Dental Manufacturing Co., Detroit, Mich. Dental modeling compounds. 249,242; Nov. 13; Serial No. 266,361; published Aug. 21, 1928. Class 44.
Ditto, Incorporated, Chicago, Ill. Paper for stationery use. 249,382; Nov. 13; Serial No. 259,624; published Aug. 28, 1928. Class 37.
Dorado Club Beverage Company, Los Angeles, Calif. Beverages. 249,350; Nov. 13; Serial No. 269,101; published Sept. 4, 1928. Class 45.
Dunne, Frank W. Co., Oakland, Calif. Enamel paint. 249,279; Nov. 13; Serial No. 266,796; published Aug. 28, 1928. Class 16.
Dykon Products Company, Eugene, Oreg. Antiseptic. 249,375; Nov. 13; Serial No. 259,054; published Aug. 14, 1928. Class 6.
Dymnicki, Joseph, doing business as Dym-Nosmel, New London, Conn. Liquid deodorant. 249,315; Nov. 13; Serial No. 269,449; published Aug. 28, 1928. Class 6.
Dym-Nosmel. (See Dymnicki, Joseph.)
Earl Fruit Company, San Francisco, Calif. Fresh fruits. 249,356; Nov. 13; Serial No. 269,226; published Sept. 4, 1928. Class 46.
Eaton, Charles A., Company, Brockton, Mass. Shoes. 249,380; Nov. 13; Serial No. 259,484; published Aug. 7, 1928. Class 39.
Eberhard Von Bodenhausen, Berlin, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Albuminates and compounds thereof. 32,174; renewed Nov. 22, 1928.
Educator Shoe Corporation of America, The. (See Kinney, G. R., Co., Inc., assignor.)
Elder Mfg. Co., St. Louis, Mo. Shirts and boys' blouses. 249,255; Nov. 13; Serial No. 268,431; published Aug. 21, 1928. Class 39.
Executive Council of the Alpha Delta Phi Fraternity, The, New York, N. Y. Fraternity pins and pendants. 249,403; Nov. 1.; Serial No. 263,382; published Aug. 28, 1928. Class 28.
Express Rubber Co., Limited, The, London, England. Waterproof coats and capes. 249,418; Nov. 13; Serial No. 265,834; published Aug. 28, 1928. Class 39.
Fair, The, Chicago, Ill. Sanitary napkins. 249,470; Nov. 13; Serial No. 268,976; published Aug. 28, 1928. Class 44.
Fairmount Electric and Manufacturing Company, The, Philadelphia, Pa. Electric conduit fittings. 72,865; renewed Mar. 2, 1929.
Farastan Company, The, Ardmore, Pa. Stable solution of alkali hypolodite. 249,364; Nov. 13; Serial No. 269,400; published Aug. 28, 1928. Class 6.
Farbwerke, vormals Meister Lucius and Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Dyestuffs. 32,209; renewed Dec. 6, 1928.
Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Local anesthetic. 32,210; renewed Dec. 6, 1928.
Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Albumin compound containing phosphorus. 32,211; renewed Dec. 6, 1928.
Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Artificial dung. 32,212; renewed Dec. 6, 1928.
Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medicine for wounds. 32,213; renewed Dec. 6, 1928.
Farbwerke, vormals Meister Lucius & Brüning, Hochst-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Remedy. 32,215–16; renewed Dec. 6, 1928.
Farley & Loetscher Mfg. Co., Dubuque, Iowa. Cabinet, drawer, table, etc. 249,299; Nov. 13; Serial No. 254,963; published Sept. 4, 1928. Class 32.
Fendrich, H., Incorporated, Evansville, Ind. Cigars. 73,136; renewed Mar. 16, 1929.
Fishel, Lillian N., doing business as Kwickrid Remedy Company, New York, N. Y. Headache remedies. 249,363; Nov. 13; Serial No. 269,348; published Aug. 28, 1928. Class 6.
Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit. 249,236; Nov. 13; Serial No. 266,653; published Sept. 4, 1928. Class 46.
Florsheim Shoe Company, The, Chicago, Ill. Shoes. 249,479; Nov. 13; Serial No. 267,704; published Aug. 21, 1928. Class 39.
Flügger & Boecking, Hamburg, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Oils for artists' paints, colors, and varnishes. 32,146; renewed Nov. 8, 1928.
Ford Motor Company, Fordson, Mich. Fertilizer. 249,344; Nov. 13; Serial No. 268,594; published Sept. 4, 1928. Class 10.
Ford Motor Company, Fordson, Mich. Locks, ignition switch locks, and keys. 249,345; Nov. 13; Serial No. 268,596; published Sept. 4, 1928. Class 25.
Foss, H. D. & Co., Incorporated, Boston, Mass., assignor to H. D. Foss & Co. Inc., Cambridge, Mass. Chocolates. 71,639; renewed Dec. 8, 1928.
Freedman, Charles S., Los Angeles, Calif. Suppositories. 249,474; Nov. 13; Serial No. 268,977; published Aug. 21, 1928. Class 6.
Frezo Laboratories. (See Corinna Incorporated.)
Fries & Fries Co., The, doing business as Golden Mist Laboratories and Golden Mist Parfumerie, Cincinnati, Ohio. Astringents, astringent cerates, beauty creams, etc. 249,351; Nov. 13; Serial No. 269,108; published Aug. 28, 1928. Class 6.
Fusco, Ovidio D., Brooklyn, N. Y. Chemical preparation. 249,342; Nov. 13; Serial No. 263,119; published Aug. 14, 1928. Class 6.
Gans, Ludwig W., Frankfort-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Medical compounds. 32,242; renewed Dec. 13, 1928.



Geiser, Emile, successeur de Charles Robert, La Chaux-de-Fonds, Switzerland. Watch and clock springs, hairsprings, and hands, etc. 249,251; Nov. 13; Serial No. 266,169; published Aug. 28, 1928. Class 27.
Geuting, A. H., Co., Inc., Philadelphia, Pa. Shoes. 249,525; Nov. 13; Serial No. 233,681; published July 3, 1928. Class 39.
Gibbon, C. D., & Son, Philadelphia, Pa. Ladies' shoes. 32,242; renewed Dec. 13, 1928.
Girson, Phillip, doing business as Phillip Girson & Co., Chicago, Ill. Leather gloves. 249,372; Nov. 13; Serial No. 258,708; published Aug. 7, 1928. Class 39.
Glaze, Charles, Exeter, Calif. Fresh grapes. 249,328; Nov. 13; Serial No. 269,953; published Sept. 4, 1928. Class 46.
Glenwood, Cotton Mills, Easley, S. C. Cotton sheetings. 249,253; Nov. 13; Serial No. 266,084; published Sept. 4, 1928. Class 42.
Goetz, M. K., Brewing Co., St. Joseph, Mo. Bottled beer. 32,494; renewed Feb. 14, 1929.
Golden Mist Laboratories. (See Fries & Fries Co.)
Golden Nugget Sweets, San Francisco, Calif. Fudge and nougat. 249,519; Nov. 13; Serial No. 239,928; published Sept. 4, 1928. Class 46.
Goldsmith, J., & Sons, New Britain, Conn. Malt syrup. 249,434; Nov. 13; Serial No. 264,372; published Aug. 28, 1928. Class 46.
Goldwasser, J., New York, N. Y. Fur trimmings. 249,436; Nov. 13; Serial No. 264,229; published Aug. 21, 1928. Class 40.
Goodman Cloak Company, The, Cleveland, Ohio. Coats, suits, dresses. 249,295; Nov. 13; Serial No. 252,771; published Aug. 21, 1928. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Solid and pneumatic rubber vehicle tires. 72,867; renewed Mar. 2, 1929.
Gossard, H. W., Co., The, now by change of name Associated Apparel Industries, Inc., Chicago, Ill. Women's combination undergarments. 249,499; Nov. 13; Serial No. 267,252; published Aug. 7, 1928. Class 39.
Green, Michael, Philadelphia, Pa. Cigars. 249,494; Nov. 13; Serial No. 267,350; published Aug. 28, 1928. Class 17.
Greenstreet, Oliver P., doing business as American Device Mfg. Company, Owensville, Mo. Laundry washing machines. 249,316; Nov. 13; Serial No. 269,459; published Sept. 4, 1928. Class 24.
Groves Shoe Company, Chicago, Ill. Women's novelty footwear. 249,250; Nov. 13; Serial No. 266,245; published Aug. 7, 1928. Class 39.
Guarantee Exterminating Company. (See Rosen, Samuel S.)
Hahlo & Solomon, Inc., New York, N. Y. Piece goods for lining. 249,352; Nov. 13; Serial No. 269,117; published Sept. 4, 1928. Class 42.
Hall, C. M., Lamp Company. (See Badger Brass Mfg. Co., The.)
Hammel, Riglander & Co., to Hammel, Riglander & Co. Inc., New York, N. Y., successor. Cabinets for watch glasses. 73,123; renewed Mar. 16, 1929.
Hammond, Benjamin F., Wichita, Kans. Cartoons. 249,400; Nov. 13; Serial No. 268,096; published Aug. 28, 1928. Class 38.
Hart Drug Corporation, Miami, Fla. Preparation for the treatment of hemorrhoids. 249,260; Nov. 13; Serial No. 268,541; published Aug. 21, 1928. Class 6.
Hatfield, Rolland F., sr., doing business as Ro-Hel-Gen Products Co., Not Inc., Cicero, Ill. General household cleaner. 249,404; Nov. 13; Serial No. 263,395; published Aug. 28, 1928. Class 4.
Have A Heart Candy Co. (See Rose, William D.)
Health Laboratories. (See Walker, W. & H., Inc.)
Hekelukaemper Bros., Atchison, Kans. Beverages. 249,323; Nov. 13; Serial No. 269,782; published Sept. 4, 1928. Class 45.
Helm, John C. P., doing business as Helm Laboratories, New Orleans, La. Metal polishes, sweeping compounds, etc. 249,373; Nov. 13; Serial No. 258,870; published Aug. 28, 1928. Class 4.
Henckels, J. A., Solingen, Germany. Knives, scissors, etc. 249,462; Nov. 13; Serial No. 263,002; published Aug. 28, 1928. Class 23.
Henckels, J. A., Solingen, Germany. Nail scissors, corn razors, etc. 249,473; Nov. 13; Serial No. 268,982; published Aug. 28, 1928. Class 44.
Hendrie, Harold, doing business as Hendrie & Co., Montpelier Station, Va. Hair pomade. 249,292; Nov. 13; Serial No. 251,442; published Aug. 14, 1928. Class 6.
Hero Clothing Mfg. Co., Inc., Philadelphia, Pa. Overcoats and suits. 249,414; Nov. 13; Serial No. 265,964; published Aug. 21, 1928. Class 39.
Heyden Chemical Corporation, Inc. (See Chemische Fabrik von Heyden A. G., assignor.)
Hill Bros. Co., Hudson, Mass. Leather shoes. 249,307; Nov. 13; Serial No. 268,156; published Aug. 21, 1928. Class 39.
Hirsch Bros. & Co. Inc., Louisville, Ky. Pepper sauce, savory sauce, Worcestershire sauce, etc. 249,296; Nov. 13; Serial No. 253,754; published Feb. 14, 1928. Class 46.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, etc. 249,410; Nov. 13; Serial No. 263,872; published Aug. 21, 1928. Class 39.
Horton Cato Manufacturing Company, Detroit, Mich., assignor to Royal Baking Powder Company, New York, N. Y. Liquid condiments. 32,297; renewed Dec. 27, 1928.
Houghton, E. F., & Co., Philadelphia, Pa. Compounds for processing and fanning leather. 249,256; Nov. 13; Serial No. 268,441; published Aug. 14, 1928. Class 6.
Howarth, John F., Colorado Springs and Gunnison, Colo. Bait hooks, gut leaders, and trout flies. 249,490; Nov. 13; Serial No. 267,418; published Aug. 28, 1928. Class 22.
Hudnut, Richard, assignor to Richard Hudnut, New York, N. Y. Perfumes, extracts, toilet waters, and sachets. 32,188; renewed Nov. 29, 1928.
Hudson, Charles M., assignor to Hudson & Company, Inc., New York, N. Y. Preparation for removing superfluous hair. 249,306; Nov. 13; Serial No. 256,936; published Aug. 28, 1928. Class 6.
Hugo, Walter E., Hammond, Ind. Pop corn raw and popped and pop-corn seasoning. 249,264; Nov. 13; Serial No. 268,040; published Aug. 28, 1928. Class 46.
I. G. Farbenindustrie Aktiengesellschaft Frankfort-on-the-Main and Berlin, Germany. Artificial-silk thread and artificial spinning fibers. 249,288; Nov. 13; Serial No. 260,992; published Sept. 4, 1928. Class 43.
Imperial Trust for the Encouragement of Scientific and Industrial Research, The, London, England. Metal-working taps, surface plates, and leading screws. 249,524; Nov. 13; Serial No. 235,777; published Aug. 28, 1928. Class 23.
Indiana Lamp Corporation, Connersville, Ind. Combination vehicle stop and tail lamps. 249,395; Nov. 13; Serial No. 268,787; published Aug. 28, 1928. Class 21.
International Takamine Ferment Company, New York, N. Y. Koji, moyashi, diastase, etc. 249,298; Nov. 13; Serial No. 254,673; published Aug. 7, 1928. Class 6.
Interstate Rubber Company, New York, N. Y. Spray devices. 249,515; Nov. 13; Serial No. 267,048; published Sept. 4, 1928. Class 13.
Irvine Valencia Growers, Irvine, Calif. Fresh citrus fruits. 249,335; Nov. 13; Serial No. 270,128; published Sept. 4, 1928. Class 46.
Isidor Weinstein-Coats-Inc., New York, N. Y. Women's and misses' coats. 249,469; Nov. 13; Serial No. 261,850; published Aug. 21, 1928. Class 39.
Janszen Company, The, Cincinnati, Ohio. Shoe laces. 249,458; Nov. 13; Serial No. 267,773; published July 24, 1928. Class 40.
Jennings, Annette R., doing business as Annette's Perfect Cleanser Co., Boston, Mass. Dry-cleaning composition. 249,398; Nov. 13; Serial No. 268,927; published Aug. 28, 1928. Class 4.
Jonas Millinery, Inc., New York, N. Y. Ladies' hats. 249,443; Nov. 13; Serial No. 267,965; published Aug. 21, 1928. Class 39.
Juniormode Shoe Corporation, New York, N. Y. Shoes, slippers, etc. 249,301–2; Nov. 13; Serial Nos. 255,308–9; published Aug. 7, 1928. Class 39.
Kalamazoo Sled Company, The, Kalamazoo, Mich. Lawn furniture. 249,285; Nov. 13; Serial No. 260,733; published Sept. 4, 1928. Class 32.
Kalle & Co., Biebrich, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Cure for consumption. 32,177–8; renewed Nov. 22, 1928.
Kalle & Co., Biebrich, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Cure for consumption. 32,287; renewed Dec. 27, 1928.
Kasko Products Company, Inc., Philadelphia, Pa. Sweetening compound and a compound of chocolate and malt. 249,341; Nov. 13; Serial No. 263,091; published Aug. 28, 1928. Class 46.
Kern, John J., doing business as John J. Kern & Co., Chicago, Ill. Mustard. 249,377; Nov. 13; Serial No. 259,212; published Aug. 28, 1928. Class 46.
Kerr Products Company, Inc., Sacramento, Calif. Potato flakes, dill relish, vegetable relish, sweet and sour pickles, etc. 249,521; Nov. 13; Serial No. 242,297; published Mar. 8, 1927. Class 46.
Kinney, G. R., Co., Inc., assignor to The Educator Shoe Corporation of America, New York, N. Y. Leather boots and shoes. 249,412; Nov. 13; Serial No. 263,954; published Aug. 21, 1928. Class 39.
Kitchlew, Mohammed I., Chicago, Ill. Perfume. 249,523; Nov. 13; Serial No. 244,777; published Aug. 14, 1928. Class 6.
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 249,502–3; Nov. 13; Serial Nos. 267,199–200; published July 24, 1928. Class 40.
Klink Citrus Association, Klink, Calif. Fresh oranges, lemons, and grapefruit. 249,329; Nov. 13; Serial No. 269,961; published Sept. 4, 1928. Class 46.
Klo-Ro-San Company. (See Presenger, Henry J.)
Konishi, Koji, Tokyo, Japan. Glass for timepieces. 249,422; Nov. 13; Serial No. 265,549; published Sept. 4, 1928. Class 33.
Koseki, Torasaburo, Tokyo, Japan. Medicines for treatment of the liver. 249,291; Nov. 13; Serial No. 250,923; published Aug. 14, 1928. Class 6.
Kreider, A. S., Shoe Manufacturing Co., Elizabethtown, Pa. Leather shoes. 249,467; Nov. 13; Serial No. 262,093; published Aug. 7, 1928. Class 39.

Kroger Grocery & Baking Company, The, Cincinnati, Ohio. Coffee. 249,300; Nov. 13; Serial No. 255,111; Sept. 4, 1928. Class 46.
Kwickrid Remedy Company. (See Fishel, Lillian N.)
Laboratoire de Pharmacologie, Inc., New York, N. Y. Preparation for the treatment of the liver. 149,439; Nov. 13; Serial No. 264,891; published Aug. 28, 1928. Class 6.
Laboratory Chemicals, Inc., Albany, N. Y. Polish. 249,514; Nov. 13; Serial No. 267,063; published Aug. 28, 1928. Class 16.
La Duke, Mrs. Helen S., Iron Mountain, Mich. Sandwich filling. 249,537; Nov. 13. Class 46.
Lagno Laboratories, Inc., Lockport, Ill. Compound for the treatment of coccidiosis, etc., of the skin and bowels of poultry, hogs, etc. 249,527; Nov. 13; Serial No. 246,417; published Aug. 28, 1928. Class 6.
Lambert, Berta, White Creek, Wis. Medallions. 249,424; Nov. 13; Serial No. 265,388; published July 31, 1928. Class 46.
Landauer & Co., London, England. Canned and dried fruits, canned vegetables. 249,271; Nov. 13; Serial No. 266,999; published Sept. 4, 1928. Class 46.
Landauer & Co., London, England. Canned and dried fruits. 249,517; Nov. 13; Serial No. 267,000; published Sept. 4, 1928. Class 46.
La Salle Medicine Company, Los Angeles, Calif. Salts. 249,487; Nov. 13; Serial No. 267,593; published Aug. 28, 1928. Class 6.
Lasdon, Samuel D., & Co. Inc., New York, N. Y. Ladies' and misses' hats. 249,239; Nov. 13; Serial No. 266,546; published July 31, 1928. Class 39.
Liebovitz, S., & Sons, Inc., New York, N. Y. Sport jackets and coats and weatherproof jackets and coats. 249,407–8; Nov. 13; Serial Nos. 263,611–12; published Aug. 21, 1928. Class 39.
Ligorio, Cosmo. (See Vetter, Joseph J., assignor.)
Liquid Veneer Corporation, Buffalo, N. Y. Liquids for cleaning automobile, steam, or hot-water radiators. 249,442; Nov. 13; Serial No. 267,972; published Aug. 28, 1928. Class 4.
Lobel, Emanuel, New York, N. Y. Girls' coats. 249,383; Nov. 13; Serial No. 259,859; published July 31, 1928. Class 39.
Lohman, Southgate L., doing business as The Cyano-Art Co., Norfolk, Va. Blue-printing apparatus. 249,265; Nov. 13; Serial No. 268,045; published Sept. 4, 1928. Class 26.
Lord, F. T., Polish Co., Somerville, to F. T. Lord Polish Co., Cambridge, Mass. Metal polish. 73,002; renewed Mar. 9, 1929.
Louis, Alfred, Piccadilly, Manchester, England. Cotton velveteens. 249,399; Nov. 13; Serial No. 268,072; published Sept. 4, 1928. Class 42.
Lyle, Annie G., San Francisco, Calif. Nonalcoholic beverages. 249,235; Nov. 13; Serial No. 266,675; published Aug. 21, 1928. Class 45.
M & H Company, The, Cleveland, Ohio. Soaps. 249,466; Nov. 13; Serial No. 262,171; published Aug. 28, 1928. Class 4.
M-Roid Co. (See Metcalf, Arthur H.)
Maranto, Joseph P., Brooklyn, Md. Medicinal preparation for the relief and treatment of tuberculosis. 249,386; Nov. 13; Serial No. 268,618; published Sept. 11, 1928. Class 6.
Marks, Harry, Clothing Company, Inc., Richmond, Va. Coats, vests, pants, etc. 249,483; Nov. 13; Serial No. 267,654; published Aug. 21, 1928. Class 39.
Marne Hat Manufacturing Company, The, Newark, N. J. Men's hats. 249,465; Nov. 13; Serial No. 262,236; published Aug. 7, 1928. Class 39.
Marshall Field & Company, Chicago, Ill. Needles for hand use. 249,241; Nov. 13; Serial No. 266,366; published Jnly 24, 1928. Class 40.
Marshall Field & Company, Chicago, Ill. Axminster rugs. 249,528; Nov. 13; Serial No. 245,970; published Sept. 4, 1928. Class 42.
Marshall Manufacturing Company, The, Marshall, Tex. Shipping baskets. 249,482; Nov. 13; Serial No. 267,660; published Sept. 4, 1928. Class 2.
Martellin Gesellschaft mit beschränkter Haftung, Leipsic, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Artificial fertilizers. 32,148; renewed Nov. 8, 1928.
Martellin Gesellschaft mit beschränkter Haftung, Leipsic, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Artificial fertilizers. 32,149; renewed Nov. 8, 1928.
Martin, Francisco, New York, N. Y. Canned pimientos. 249,522; Nov. 13; Serial No. 243,615; published Sept. 4, 1928. Class 46.
Martins, Inc., Brooklyn, N. Y. Suits, overcoats, trousers, etc. 249,457; Nov. 13; Serial No. 267,779; published Aug. 21, 1928. Class 39.
Maury-Cole Company, Memphis, Tenn. Peanut butter and flavoring extracts. 249,541; Nov. 13. Class 46.
Mavrelis, Peter L., doing business as The Mavreline Company, Waterloo, Iowa. Salve. 249,309; Nov. 13; Serial No. 268,232; published Aug. 21, 1928. Class 6.
Mayers, Mollie, Inc., New York, N. Y. Corsets, brassières, and corsetlike undergarments. 249,267; Nov. 13; Serial No. 268,108; published Aug. 7, 1928. Class 39.
McEwen, Irving, Omaha, Nebr. Liquid disinfectant and deodorant preparation. 249,365; Nov. 13; Serial No. 269,415; published Aug. 21, 1928. Class 6.
McKinney Manufacturing Company, Pittsburgh, Pa. Hinges, straps, brackets, etc. 249,498; Nov. 13; Serial No. 267,310; published Sept. 4, 1928. Class 13.
McLaurin-Jones Co., Brookfield, Mass. Glazed or friction-coated papers. 249,518; Nov. 13; Serial No. 189,367; published June 19, 1928. Class 37.
Menihan Company, The, Rochester, N. Y. Leather or cloth top shoes and pumps. 249,475; Nov. 13; Serial No. 261,678; published Aug. 21, 1928. Class 39.
Metcalf, Arthur H., doing business as M-Roid Co., New Haven, Conn. Ointment. 249,437; Nov. 13; Serial No. 264,037; published Aug. 28, 1928. Class 6.
Meyer Brothers, Paterson, N. J. Shoes. 249,238; Nov. 13; Serial No. 266,549; published Aug. 21, 1928. Class 39.
Miami Malt Company. (See Morris, Lewis.)
Mid-Pacific Candy Company, Limited, Honolulu, Hawaii. Glacé pineapple and confections. 249,357; Nov. 13; Serial No. 269,245; published Sept. 4, 1928. Class 46.
Mid-West Bottle Cap Co., Belvidere, Ill. Milk-bottle caps. 249,543; Nov. 13. Class 50.
Midwest Steel & Supply Company, Inc., New York, N. Y., and Bradford, Pa. Humidifying machines and devices, etc. 249,402; Nov. 13; Serial No. 268,107; published Sept. 4, 1928. Class 34.
Mineralac Laboratories, Brooklyn, N. Y. Medical preparation. 249,478; Nov. 13; Serial No. 267,715; published Aug. 14, 1928. Class 6.
Missouri Agricultural Publishing Company, St. Louis, Mo. Tattooing device. 249,361; Nov. 13; Serial No. 269,305; published Sept. 4, 1928. Class 23.
Mobile Grocery Company, also operating as Southern Products Co., Mobile, Ala. Candy and peanut butter. 249,397; Nov. 13; Serial No. 268,876; published Aug. 28, 1928. Class 46.
Mohawk Merchandise Company, The, New York, N. Y. Combs. 249,513; Nov. 13; Serial No. 267,071; published July 24, 1928. Class 40.
Molphus, Melvin J., West Palm Beach, Fla. Preparation for growing hair. 249,459; Nov. 13; Serial No. 264,493; published Aug. 28, 1928. Class 6.
Moret Parfumeur. (See Peoples Drug Stores, Inc.)
Morris, Lewis, doing business as Miami Malt Company, Miami, Fla. Malt syrup. 249,266; Nov. 13; Serial No. 268,053; published Aug. 28, 1928. Class 46.
Mount Rouge Company. (See De La Montanya, P.)
Mount Rouge Company. (See De La Montanya, Pierre.)
Mum Manufacturing Company. (See Deal, Seraph J.)
Munsingwear Corporation, The, Minneapolis, Minn. Hosiery. 249,392; Nov. 13; Serial No. 268,744; published Aug. 21, 1928. Class 39.
Mutual Orange Distributors, Redlands, Calif. Fresh citrus and deciduous fruits. 249,336; Nov. 13; Serial No. 270,139; published Sept. 4, 1928. Class 46.
N.-D.-N. Products Co., Buffalo, N. Y. Preparation for removing carbon from internal-combustion engines, etc. 249,501; Nov. 13; Serial No. 267,203; published Aug. 14, 1928. Class 6.
National Accessories Corporation, Los Angeles, Calif. Electrical spotlights. 249,379; Nov. 13; Serial No. 259,415; published Aug. 28, 1928. Class 21.
National Box Company, Chicago, Ill. Wooden boxes and crates. 249,538; Nov. 13. Class 2.
National Cellulose Corporation, New York, N. Y. Sanitary napkins, surgical dressings, etc. 249,230; Nov. 13; Serial No. 268,382; published Aug. 28, 1928. Class 44.
National Committee on Correct Style, Inc., The, Chicago, Ill. Hat linings. 249,284; Nov. 13; Serial No. 260,129; published Aug. 21, 1928. Class 39.
National Fraternity of Alpha Chi Rho, New York, N. Y. Fraternity badges, lapel buttons, etc. 249,421; Nov. 13; Serial No. 265,556; published Aug. 28, 1928. Class 28.
National Fruit Canning Co., Seattle, Wash. Canned fruits. 249,330; Nov. 13; Serial No. 269,972; published Sept. 4, 1928. Class 46.
National Road Marker, Inc., Chicago, Ill. Road markers. 249,542; Nov. 13. Class 50.
Navytone Company, The, Philadelphia, Pa. Men's suits. 249,530; Nov. 13; Serial No. 249,368; published Aug. 21, 1928. Class 32.
New York Hat Stores, Inc., Los Angeles, Calif. Hats for men and boys. 249,440; Nov. 13; Serial No. 264,900; published Aug. 21, 1928. Class 39.
Nicotex Company, The, New York, N. Y. Preparation for removing tobacco and nicotine stains from the skin. 249,438; Nov. 13; Serial No. 268,953; published Aug. 21, 1928. Class 6.
Norway Shoe Company, Norway, Me. Shoes. 249,416; Nov. 13; Serial No. 265,921; published Aug. 21, 1928. Class 39.
Nulife Patents Corporation, New York, N. Y. Corsets, brassières, etc. 249,456; Nov. 13; Serial No. 267,786; published Aug. 21, 1928. Class 39.
Oakite Products, Inc., New York, N. Y. Chemical compound. 249,419; Nov. 13; Serial No. 265,680; published Aug. 14, 1928. Class 6.
Old Hampshire, Inc., New York, N. Y. Ginger ale. 249,324; Nov. 13; Serial No. 269,908; published Sept. 4, 1928. Class 45.
Ostermann, Francis X., Englewood, N. J. Preparation for the relief of poison-ivy affections. 249,489; Nov. 13; Serial No. 267,504; published Aug. 21, 1928. Class 6.
Oxy-Vaporol Company, New York, N. Y. Medical preparation. 249,304; Nov. 13; Serial No. 256,682; published Dec 13, 1927. Class 6.



Pacific Trading Co., Inc., San Francisco, Calif. Canned vegetables. 249,322; Nov. 13; Serial No. 269,743; published Aug. 28, 1928. Class 46.
Palmolive-Peet Company, The, Chicago, Ill. Facial creams. 249,403; Nov. 13; Serial No. 262,767; published Aug. 14, 1928. Class 6.
Parfums Lionceau, Inc., New York, N. Y. Perfumes, toilet waters, bath powder, etc. 249,343; Nov. 13; Serial No. 263,786; published Aug. 21, 1928. Class 6.
Patent Button Company, The, Waterbury, Conn. Buttons of nonprecious metal. 249,488; Nov. 13; Serial No. 267,507; published Aug. 7, 1928. Class 40.
Peerless Roll Leaf Co., Inc., New York, N. Y. Heat-releasable transfer strips. 249,539; Nov. 13. Class 11.
Pendleton Woolen Mills, Portland, Oreg. Clothing. 249,455; Nov. 13; Serial No. 267,790; published Aug. 21, 1928. Class 39.
Penn Leather Co., Philadelphia, Pa. Leather soles, taps, tap or half soles. 249,371; Nov. 13; Serial No. 258,284; published Aug. 7, 1928. Class 39.
Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Compacts. 249,431; Nov. 13; Serial No. 265,008; published Aug. 14, 1928. Class 6.
Peoples Drug Stores, Inc., doing business as Moret Parfumeur, Washington, D. C. Cosmetics. 249,432; Nov. 13; Serial No. 265,007; published Aug. 14, 1928. Class 6.
Peterson, G. A., doing business as Peterson "Freezem" Sales Co., Oklahoma City, Okla. Air-blast ventilating units consisting of fan blower and ducts. 249,430; Nov. 13; Serial No. 265,011; published Sept. 4, 1928. Class 34.
Pfaffman Egg Noodle Company, The, Cleveland, Ohio. Alimentary paste products. 249,310; Nov. 13; Serial No. 268,244; published Aug. 28, 1928. Class 46.
Pharmaceutisches Institut Ludwig Wilhelm Gans, Frankfort-on-the-Main, Germany, assignor to The Chemical Foundation, Incorporated, Wilmington, Del., and New York, N. Y. Dietetic preparations of albumen. 32,145; renewed Nov. 8, 1928.
Phi Mu Fraternity, Chicago, Ill. Fraternity badges, lapel buttons, cuff links, etc. 249,387; Nov. 13; Serial No. 268,630; published Aug. 28, 1928. Class 28.
Pippen, Enassie, Pontiac, Mich. Hair tonic, vanishing and cold cream. 249,376; Nov. 13; Serial No. 259,072; published Aug. 14, 1928. Class 6.
Polofsky, Jacob S., New York, N. Y. Extract. 249,481; Nov. 13; Serial No. 267,666; published Sept. 4, 1928. Class 45.
Porcela-Radax Co., Pittsburgh, Pa. Drainpipe solvents. 249,449; Nov. 13; Serial No. 267,901; published Aug. 14, 1928. Class 6.
Portite Facial Products Co., Miami, Fla. Facial products. 249,231; Nov. 13; Serial No. 268,390; published Aug. 21, 1928. Class 6.
Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and vegetables and apricot butter. 249,358–9; Nov. 13; Serial Nos. 269,255–6; published Sept. 4, 1928. Class 46.
Prescott, J. L., & Co., assignor to J. L. Prescott Company, New York, N. Y. Polish. 31,982; renewed Sept. 30, 1928.
Presenger, Henry J., doing business as Klo-Ro-San Company, Detroit, Mich. Deodorant compounds. 249,441; Nov. 13; Serial No. 267,995; published Aug. 28, 1928. Class 6.
Publicker Incorporated, Philadelphia, Pa. Ethyl acetate, butyl acetate, etc. 249,320; Nov. 13; Serial No. 269,549; published Aug. 21, 1928. Class 6.
Purity Chemical Products Co., Santa Rosa, Calif. Liquid dry cleaner. 249,468; Nov. 13; Serial No. 261,988; published Aug. 28, 1928. Class 4.
Quix Inc., New York, N. Y. Preparation to stop runs in hosiery. 249,396; Nov. 13; Serial No. 268,811; published Aug. 14, 1928. Class 6.
Rayco Paint Company, Detroit, Mich. Paint remover. 249,282; Nov. 13; Serial No. 266,751; published Aug. 21, 1928. Class 16.
Red Star Mfg. Co. Inc., San Juan, P. R., and New York, N. Y. Pearl buttons. 249,368; Nov. 13; Serial No. 257,704; published Aug. 21, 1928. Class 40.
Redmanol Chemical Products Company, New York, N. Y. Abrasive grinding wheels and abrasive cutting wheels. 249,286; Nov. 13; Serial No. 260,749; published Aug. 28, 1928. Class 4.
Richfield Oil Company of California, Los Angeles, Calif. Petroleum products. 249,454; Nov. 13; Serial No. 267,804; published Aug. 28, 1928. Class 15.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. 249,389; Nov. 13; Serial No. 268,704; published Aug. 21, 1928. Class 39.
Ro-Hel-Gen Products Co., Not Inc. (See Hatfield, Rolland F., sr.)
Rose, John E., Co. Inc., New York, N. Y. Suspenders, belts, etc. 249,406; Nov. 13; Serial No. 263,562; published Aug. 21, 1928. Class 39.
Rose, William D., doing business as Have a Heart Candy Co., Portland, Oreg. Candy. 249,313; Nov. 13; Serial No. 269,427; published Sept. 4, 1928. Class 46.
Rosen, Samuel S., doing business as Guarantee Exterminating Company, New York, N. Y. Nuisance-preventing liquid spray. 249,325; Nov. 13; Serial No. 269,917; published Aug. 28, 1928. Class 6.



Rosenfeld, Arnold, Silk Corporation, New York, N. Y. Silk piece goods. 249,496; Nov. 13; Serial No. 267,318; published Sept. 4, 1928. Class 42.
Rosenfeld, Arnold, Silk Corporation, New York, N. Y. Silk piece goods. 249,497; Nov. 13; Serial No. 267,316; published Sept. 4, 1928. Class 42.
Ross, Leo, doing business as Aseptine Products Company, Brooklyn, N. Y. Mouth wash and gargle. 249,464; Nov. 13; Serial No. 262,872; published Aug. 21, 1928. Class 6.
Roura, Octave G., Paris, France. Pomades. 249,240; Nov. 13; Serial No. 266,403; published Aug. 28, 1928. Class 6.
Royal Baking Powder Company. (See Horton Cato Manufacturing Company, The, assignor.)
Rubin, Alexander, San Francisco, Calif. Ladies' and misses' hats. 249,283; Nov. 13; Serial No. 266,757; published Aug. 21, 1928. Class 39.
Sally Frocks, Inc., Chicago, Ill. Frocks and dresses. 249,531; Nov. 13; Serial No. 248,933; published Aug. 21, 1928. Class 39.
Salmons, Chapman H., Dunlow, W. Va. Liniment. 249,293; Nov. 13; Serial No. 251,688; published Aug. 14, 1928. Class 6.
Savarins, Inc., The, New York, N. Y. Cigars and cigarettes. 249,254; Nov. 13; Serial No. 266,050; published Sept. 4, 1928. Class 17.
Schaufler, Ernst, Reutlingen, Germany. Hair tonic. 249,390; Nov. 13; Serial No. 268,705; published Aug. 28, 1928. Class 6.
Scovill Manufacturing Company. (See American Pin Co., The, assignor.)
Scully Bros. Inc., Los Angeles, Calif. Aviators' helmets. 249,281; Nov. 13; Serial No. 266,760; published Aug. 7, 1928. Class 39.
Semenoff, Semuel, New York, N. Y. Manufactured jewelry. 249,388; Nov. 13; Serial No. 268,637; published Aug. 28, 1928. Class 28.
Sergeant-Paup Company, Seattle, Wash. Canned fish. 249,331; Nov. 13; Serial No. 269,991; published Sept. 4, 1928. Class 46.
Sgobel & Day, Inc., New York, N. Y. Fresh pears. 249,317; Nov. 13; Serial No. 269,486; published Sept. 4, 1928. Class 46.
Shoecraft Shop Inc., New York, N. Y. Stockings, gaiters, heel pads, etc. 249,413; Nov. 13; Serial No. 265,990; published Aug. 21, 1928. Class 39.
Simmons, George W., Corporation, New York, N. Y. Brooms. 249,232; Nov. 13; Serial No. 268,396; published Aug. 21, 1928. Class 29.
Skinner-Hill Co., Inc., New York, N. Y. Glassware. 249,367; Nov. 13; Serial No. 257,124; published Sept. 4, 1928. Class 33.
Slater, C. B., Company, South Braintree, Mass. Boots and shoes. 249,277; Nov. 13; Serial No. 266,893; published Aug. 7, 1928. Class 39.
Smart Fashion Dress Co. (See Brandt, William S.)
Smith-Alsop Paint and Varnish Company, Inc., The, Terre Haute, Ind. Flat-finish paint. 249,362; Nov. 13; Serial No. 269,328; published Aug. 28, 1928. Class 16.
Société Carbox, La Courneuve, France. Apparatus for delivering measured quantities of liquid. 249,493; Nov. 13; Serial No. 267,394; published Aug. 28, 1928. Class 26.
Société Hardoll, Etablissements Hariveau, Dollmer et René Porte & Cie. Réunis, Levallois-Perret, France. Apparatus for delivering measured quantities of liquid. 249,492; Nov. 13; Serial No. 267,395; published Aug. 28, 1928. Class 26.
Southern Products Co. (See Mobile Grocery Company.)
Speak-O-Phone Incorporated, New York, N. Y. Metallic disc phonograph records. 249,401; Nov. 13; Serial No. 268,321; published Aug. 28, 1928. Class 36.
Spiel, George F., Chicago, Ill. Top. 249,451; Nov. 13; Serial No. 267,871; published Aug. 28, 1928. Class 22.
Stahl-Urban & Company, Terre Haute, Ind. Work shirts, 249,246–7; Nov. 13; Serial Nos. 266,331–2; published Aug. 21, 1928. Class 39.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Insecticides. 249,326; Nov. 13; Serial No. 269,928; published Aug. 28, 1928. Class 6.
Stephens-Huffines Manufacturing Company, Nashville and Watertown, Tenn. Shirts, overalls, pants, etc. 249,536; Nov. 13. Class 39.
Stern Brothers, New York, N. Y. Baseballs, baseball gloves, bicycles, etc. 249,259; Nov. 13; Serial No. 268,565; published Aug. 28, 1928. Class 22.
Stern Brothers, New York, N. Y. Baseballs, baseball gloves, bicycles, etc. 249,259; Nov. 13; Serial No. 268,566; published Aug. 28, 1928. Class 22.
Stern Brothers, New York, N. Y. Men's suits, overcoats, pajamas, hose, etc. 249,420; Nov. 13; Serial No. 265,582; published Aug. 21, 1928. Class 39.
Stern, Louis, Company, Providence, R. I. Key rings, chain fasteners, etc. 249,308; Nov. 13; Serial No. 268,165; published Aug. 28, 1928. Class 28.
Strohmeyer & Arpe Co., New York, N. Y. Foods. 72,945–6; renewed Mar. 2, 1929.
Strohmeyer & Arpe Co., New York, N. Y. Foods. 73,116; renewed Mar. 16, 1929.
Sturdy Manufacturing Co., Elkhart, Ind. Warm-air registers, cold-air gratings, etc. 249,249; Nov. 13; Serial No. 266,282; published Sept. 4, 1928. Class 34.
Sunolive Home, The. (See Bowman, Harvey.)
Superior Hat Co., St. Louis, Mo. Hats. 249,262; Nov. 13; Serial No. 268,004; published Aug. 7, 1928. Class 39.

Surface Combustion Company, Inc., The, Toledo, Ohio. Gas and oil industrial furnaces and parts therefor. 249,500; Nov. 13; Serial No. 267,219; published Sept. 4, 1928. Class 34.
Swan-Myers Company, Indianapolis, Ind. Calcium gusiacol sulphonate. 249,453; Nov. 13; Serial No. 267,809; published Aug. 14, 1928. Class 6.
Taussig, Emil, New York, assignor to West Disinfecting Company, Long Island City, N. Y. Disinfectants and insecticides. 32,482; renewed Feb. 7, 1929.
Tetter, F., & Sons, Newark, N. J. Powder puffs. 249,312; Nov. 13; Serial No. 268,326; published Aug. 28, 1928. Class 29.
Tiffany & Company, New York, N. Y. Music boxes. 249,505; Nov. 13; Serial No. 267,162; published Aug. 28, 1928. Class 36.
Tiffany & Company, New York, N. Y. Shoehorns, buttonhooks, hatpins, etc. 249,506; Nov. 13; Serial No. 267,160; published Aug. 28, 1928. Class 40.
Tiffany & Company, New York, N. Y. Printed books and visiting cards, etc. 249,507; Nov. 13; Serial No. 267,159; published Aug. 28, 1928. Class 38.
Tiffany & Company, New York, N. Y. Candles. 249,508; Nov. 13; Serial No. 267,157; published Aug. 28, 1928. Class 15.
Tiffany & Company, New York, N. Y. Furniture. 249,509; Nov. 13; Serial No. 267,154; published Sept. 4, 1928. Class 32.
Tiffany & Company, New York, N. Y. Playing cards and chips and cribbage boards. 249,510; Nov. 13; Serial No. 267,153; published Aug. 28, 1928. Class 22.
Tiffany & Company, New York, N. Y. Electric lamps, candelabra, and candlesticks, etc. 249,511; Nov. 13; Serial No. 267,152; published Aug. 28, 1928. Class 21.
Tiffany & Company, New York, N. Y. Clothes brushes, hairbrushes, powder puffs, etc. 249,512; Nov. 13; Serial No. 267,095; published Aug. 21, 1928. Class 29.
Titman Egg Corporation, New York, N. Y. Frozen eggs. 249,339; Nov. 13. Class 46.
Tobrin Tool Company, The, Plantsville, Southington, Conn. Screw drivers. 249,340; Nov. 13; Serial No. 269,006; published Sept. 4, 1928. Class 23.
Torrey, Joseph R., and Belle M. Torrey, doing business as J. R. Torrey & Company, administrators under the will of Lewis H. Torrey, Worcester, Mass. Blade holders and mechanical stropping devices, etc. 249,378; Nov. 13; Serial No. 259,226; published Sept. 4, 1928. Class 23.
Train's Poultry Farm Hatchery, Inc., Englewood Station, Mo. Live baby chicks, ducks, turkeys, and geese. 249,529; Nov. 13; Serial No. 249,824; published Aug. 21, 1928. Class 46.
Trico Products Corporation, Buffalo, N. Y. Radio antennæ. 249,227–8; Nov. 13; Serial Nos. 268,328–9; published Aug. 28, 1928. Class 21.
Troy Chemical Co., Inc., Binghamton, N. Y. Liniment. 249,276; Nov. 13; Serial No. 266,899; published Aug. 14, 1928. Class 6.
United Shoe Machinery Corporation, Boston, Mass. Power brushes. 249,314; Nov. 13; Serial No. 269,436; published Aug. 28, 1928. Class 29.
Universal Button Fastening & Button Company, Detroit, Mich. Nonprecious-metal buttons. 249,405; Nov. 13; Serial No. 263,448; published July 24, 1928. Class 40.
Upjohn Company, The, Kalamazoo, Mich. Laxative preparation. 249,366; Nov. 13; Serial No. 257,040; published Aug. 28, 1928. Class 6.
Val Bros., doing business as California Medicinal Wine Co., Los Angeles, Calif. Wine. 249,252; Nov. 13; Serial No. 266,158; published Aug. 28, 1928. Class 46.
Vetter, Joseph J., Brooklyn, assignor, by mesne assignments, to Cosmo Ligorio, Brooklyn and New York, N. Y. Medicinal preparation. 70,721; renewed Sept. 29, 1928.
Vierra, Agnes L., Salinas, Calif. Sanitary napkins and rubber protectors. 249,268; Nov. 13; Serial No. 268,126; published Aug. 28, 1928. Class 44.
Vogelgesang, Theodore J., Buffalo, to Theodore J. Vogelgesang, Salamanca, N. Y. Fever remedies. 31,875; renewed Aug. 16, 1928.
Volia, Inc. (See Willicombe, Joseph, assignor.)
Waite, Ralph B., doing business as The Antidolor Mfg. Co., Springville, N. Y. Medicament. 249,274; Nov. 13; Serial No. 266,960; published Aug. 28, 1928. Class 6.
Wakie Products Corporation. (See Waskiewicz, John.)
Walker, W. & H., Inc., doing business as Health Laboratories, Pittsburgh, Pa. Medicines. 249,263; Nov. 13; Serial No. 268,009; published Aug. 28, 1928. Class 6.
Wampole, Henry K., and Company, Incorporated, Philadelphia, Pa. Medication in capsule form. 249,233; Nov. 13; Serial No. 268,406; published Aug. 21, 1928. Class 6.
Warren, Roscoe F., Los Angeles, Calif. Children's cowboy play suits. 249,374; Nov. 13; Serial No. 258,971; published Aug. 21, 1928. Class 39.
Warwick Mills, West Warwick, R. I., and Boston, Mass. Marquisette. 249,337–8; Nov. 13. Class 42.
Waskiewicz, John, doing business as Wakie Products Corporation, Bloomfield, N. J. Ointment. 249,319; Nov. 13; Serial No. 269,538; published Aug. 21, 1928. Class 6.
Wayne Company, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md. Oil-burning apparatus. 249,450; Nov. 13; Serial No. 267,878; published Sept. 4, 1928. Class 34.
Weber Medical Tea Company, The, Brooklyn, N. Y. Laxative preparations. 249,229; Nov. 13; Serial No. 268,330; published Aug. 28, 1928. Class 6.
Wechter, S., Company, Chicago, Ill. Finger rings. 249,411; Nov. 13; Serial No. 263,906; published July 17, 1928. Class 28.
Weeks, Sawyer & Co., New York, N. Y. Cotton piece goods. 249,334; Nov. 13; Serial No. 270,103; published Sept. 4, 1928. Class 42.
Weiler, J., Company, The, Oak Harbor, Ohio. Tomato catsup and pickles. 249,346; Nov. 13; Serial No. 269,060; published Aug. 28, 1928. Class 46.
Wellington Process Company, Inc., Baltimore, Md. Tanning compounds. 249,234; Nov. 13; Serial No. 268,407; published Aug. 28, 1928. Class 6.
West Disinfecting Company. (See Taussig, Emil, assignor.)
Widmann & Teah, Inc., Lock Haven, Pa. Medicinal preparations and products. 249,504; Nov. 13; Serial No. 267,172; published Aug. 21, 1928. Class 6.
Willicombe, Joseph, assignor to Volia, Inc., New York, N. Y. Liquid beautifier. 249,370; Nov. 13; Serial No. 257,948; published July 10, 1928. Class 6.
Wohl Shoe Company, St. Louis, Mo. Ladies' shoes and boots. 249,305; Nov. 13; Serial No. 256,801; published June 12, 1928. Class 39.
Yakima Fruit Exchange, Yakima, Wash. Fresh apples. 249,332; Nov. 13; Serial No. 270,002; published Sept. 4, 1928. Class 46.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Beattie Manufacturing Company, Little Falls, N. J., and New York, N. Y. Rextana. For Rugs. 34,921; Nov. 13.
Clemente Jacques y Cia., Mexico, D. F., Mexico. Frutas Escogidas. For Canned Mangoes. 34,922; Nov. 13.
D. M. Distillery Company, S. A., Juarez, Mexico. Juarez Whiskey Straight American. For Whiskey. 34,923; Nov. 13.
Fontana Food Products Company, South San Francisco, Calif. Fontana's. For Spaghetti. 34,924; Nov. 13.
Frankel's, Isaac, Sons., Wilkes-Barre, Pa. Yankee Girl. For Canned Tomatoes. 34,925; Nov. 13.
Gabal Sales Corporation, New York, N. Y. Gabal-Bitter. For Bitters. 34,926; Nov. 13.
Greenberger, Nathan E., doing business as International Fruit Exchange, New York, N. Y. Diner's Delight. For Potatoes. 34,927; Nov. 13.
Grey Iron Casting Company, Mount Joy, Pa. Starjax. For Jack Sets. 34,928; Nov. 13.
Hammond, Jesse W., doing business as Western Lacquer and Varnish Co., Los Angeles, Calif. Hi-Gloss. For Lacquer Auto Enamel. 34,929; Nov. 13.
Hills Brothers Company, The, New York, N. Y. Dromedary Grapefruit Juice. For Grapefruit Juice. 34,930; Nov. 13.
International Fruit Exchange. (See Greenberger, Nathan E.)
Isuan Corporation, The, doing business under the name of Isuan, Manila, P. I., and San Francisco, Calif. Isuan The Spirit of Joy. For Ginger Ale. 34,931; Nov. 13.
Keenan, M. A., & Sons, New London, Conn. Two-in-One. For Malt Extract. 34,932; Nov. 13.
Kolb's Bakery, Los Angeles, Calif. Kolb's Oven-Jem Bread. For Bread. 34,933; Nov. 13.
Los Angeles Paper Box Factory, Los Angeles, Calif. Addo Practice and Puzzle. For a Game. 34,934; Nov. 13.
Mather, Ethan, Cincinnati, Ohio. Raxmonia. For a Powder Having Cleansing, Bleaching, Disinfecting, and Antiseptic Properties. 34,935; Nov. 13.
National Paraffine Products Company, Akron, Ohio. Jell-E-Seal. For Paraffine Cubes. 34,936; Nov. 13.
Organ-Iron Laboratories, Omaha, Nebr. Cough and Throat Lozenges. For Cough and Throat Lozenges. 34,937; Nov. 13.
Packwood, G. H., Manufacturing Co., St. Louis, Mo. Pax—The Crystallized Soap. For Soap Product. 34,938; Nov. 13.
Pell Bros. Starch Co., Indianapolis, Ind. Hoosier Corn Starch. For Cornstarch. 34,939; Nov. 13.
Rialto Orange Co., Rialto, Calif. La Reina. For Oranges. 34,940; Nov. 13.
Rialto Orange Co., Rialto, Calif. Western Queen. For Oranges. 34,941; Nov. 13.
Rialto Orange Co., Rialto, Calif. Fancia. For Oranges. 34,942; Nov. 13.
Rialto Orange Co., Rialto, Calif. Red Skin. For Oranges. 34,943; Nov. 13.
Richards, Martin L., Dallas, Tex. Cyclone Twister. For Cigars. 34,944; Nov. 13.



Tampa Tripure Water Corporation, Tampa, Fla. Dixie Dry. For Ginger Ale. 34,945; Nov. 13.
United States Brewing Co. Of Chicago, Chicago, Ill. New Life. For Malt Syrup. 34,946; Nov. 13.
Wells Citrus Products, Inc., Wauchula, Fla. Wells 100% Pure Orange Juice. For Orange Juice. 34,947; Nov. 13.
Wells Citrus Products, Inc., Wauchula, Fla. Wells 100% Pure Grapefruit Juice. For Grapefruit Juice. 34,948; Nov. 13.
Western Lacquer and Varnish Co. (See Hammond, Jesse W.)

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Adson Chemical Co. Inc., New York, N. Y. For Colds Ozo Mist. For Preparation for the Relief of Colds, Hay Fever, Catarrh, and Asthma. 11,323; Nov. 13.
Camp, S. H., & Co., Jackson, Mich. Authorized Service Camp Supports. For Camp Physiological Supports. 11,324; Nov. 13.
Du Pont, E. I., de Nemours & Co., Inc., Wilmington, Del. Not this Season's Car Perhaps—But this Season's Colors. For Du Pont Duco. 11,325; Nov. 13.
G. H. P. Cigar Co., Inc., Philadelphia, Pa. El Producto. For Cigars. 11,326; Nov. 13.
Hills Brothers Company, The, New York, N. Y. Camel Dates They're Seeded. For Dates. 11,327; Nov. 13.
Hills Brothers Company, The, New York, N. Y. Camel Dates. For Dates. 11,328; Nov. 13.
Howlett, Charles A. S., Lowville, N. Y. Howlett Wall Safe. For Wall Safes. 11,329; Nov. 13.
National Automatic Tool Company, The, Richmond, Ind. Natco Solves your "Hole" Problem. For Metal Drilling and Tapping Machines. 11,330; Nov. 13.
Purple Cow Sandwich Shoppe, Inc., New York and Albany, N. Y. Purple Cow Sandwich Shoppe. For Foodstuffs, Particularly Bakery Products, Sandwiches, Coffee, and Tea. 11,331; Nov. 13.
Standard Textile Products Company, The, New York, N. Y. Select this Wall covering of Enduring Charm. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. 11,332; Nov. 13.
Standard Unbreakable Watch Crystals Inc., New York, N. Y. Standards Unbreakable Watch Crystals, Inc. For Unbreakable Watch Crystals. 11,333; Nov. 13.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abraham & Straus, Inc., New York, N. Y. Dresses. 239,216; Nov. 13. Class 39.
Acorn Elbow & Manufacturing Company, Cleveland, Ohio. Sheet-metal goods. 273,389; Nov. 13. Class 84.
Adjustable Fixture Co., The, Milwaukee, Wis. Light and heat reflectors. 272,191; Nov. 13. Class 44.
Alfit Packing Co., Inc., New York, N. Y. Packing material. 272,449; Nov. 13. Class 35.
Algecin Co., The. (See Magner, Philip H.)
American Car and Foundry Motors Company, New York, N. Y. Internal-combustion engines. 272,637; Nov. 13. Class 23.
American Tar Products Company, Pittsburgh, Pa. Roofing and paving materials. 272,120; Nov. 13. Class 12.
Amos, Charles L., doing business as Melrose Hosiery Mills, High Point, N. C. Hosiery. 262,283; Nov. 13. Class 39.
Amtorg Trading Corporation, New York, N. Y. Matches. 273,535; Nov. 13. Class 9.
Anderson-Prichard Oil Corporation, Oklahoma City, Okla. Naphtha refined for industrial use. 272,452; Nov. 13. Class 15.
Arch-Kare Shoe Co. (See Aronson, Samuel.)
Aronson, Samuel, doing business as Arch-Kare Shoe Co., Boston, Mass. Boots and shoes. 265,770; Nov. 13. Class 39.
Associated Merchandising Corporation, New York, N. Y. Hose supporters. 272,529; Nov. 13. Class 39.
Associated Merchandising Corporation, New York, N. Y. Dress shields, bias tape, etc. 272,530; Nov. 13. Class 40.
Attorneys' National Clearing House Company, The, Minneapolis, Minn. Publication. 273,351; Nov. 13. Class 38.
B. R. Co., Garfield, N. J. Chemical spot, stain, and scorch remover. 272,308; Nov. 13. Class 6.
Baca, Pablo, doing business as La Victoria Packing Co., Los Angeles, Calif. Sweet chocolate. 269,504; Nov. 13. Class 46.
Baird's, Mrs., Bakery, Fort Worth, Tex. Bread. 272,852; Nov. 13. Class 46.
Baker, George W., Shoe Company, Brooklyn, N. Y. Leather shoes. 267,290; Nov. 13. Class 39.
Baldwin, Gage, Company, Duluth, Minn. Fresh bananas. 272,028; Nov. 13. Class 46.
Barnett, John G., Co., Inc., Portland, Oreg. Wire rope and manila rope. 271,589; Nov. 13. Class 7.
Bentz, Frank J., doing business as Fixzit Company, Miami, Fla. Flush valves, float balls, faucet handles, etc. 270,226; Nov. 13. Class 13.
Berwin, Alfred G., New York, N. Y. Collapsible umbrellas. 272,195; Nov. 13. Class 41.
Bico Distributing Company. (See Garneau & De Bruyn, Inc.)
Bigham, Frederick M., doing business as F. M. Bigham Co., Chicago, Ill. Vegetable relish. 267,188; Nov. 13. Class 46.
Blackstone Manufacturing Company, doing business as Tru-Lax Manufacturing Company, Newark, N. J. Chewing digestive. 272,020; Nov. 13. Class 6.
Boehme, H. O., Inc., New York, N. Y. Telegraphic and radiotelephonic equipment. 253,132; Nov. 13. Class 21.
Boig, J. Henry C., Muskogee, Okla. Blade holder. 273,223; Nov. 13. Class 23.
Bosch, Robert, Aktiengesellschaft, Stuttgart, Germany. Magneto-electric ignition apparatus and other electrical ignition devices for internal-combustion engines and parts thereof. 181,169; Nov. 13. Class 21.
Bowden, Wm., & Company, Houston, Tex. Perfumes. 270,532; Nov. 13. Class 6.
Bownes, Frank, Company, Inc., Lynn, Mass. Paint enamels. 272,538; Nov. 13. Class 16.
Boye, James H., Manufacturing Co., Chicago, Ill. Golf clubs. 269,823; Nov. 13. Class 22.
Bradstone Rubber Company, Woodbine, N. J. Rubber heels. 272,539–40; Nov. 13. Class 39.
Breslin-Griffitt Carpet Company, New York, N. Y. Carpets and rugs. 273,575; Nov. 13. Class 42.
Broadstreets Incorporated, New York, N. Y. Outer garments, shirts, etc. 271,164; Nov. 13. Class 39.
Brown Durrell Co., Boston, Mass., and New York, N. Y. Underwear. 272,691; Nov. 13. Class 39.
Brown, T. Floyd, Los Angeles, Calif. Preparation for neutralizing the effects of actinic-ray burns. 257,614; Nov. 13. Class 6.
Bundy, Carl A., doing business as Carl A. Bundy Quill & Press, Los Angeles, Calif. Articles appearing periodically. 263,853; Nov. 13. Class 38.
Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Diuretic preparations. 272,133; Nov. 13. Class 6.
C. E. Manufacturing Co., Inc., Providence, R. I. Thermionic vacuum tubes. 266,298; Nov. 13. Class 21.
California Fruit Growers Exchange, Los Angeles, Calif. Electrical fruit-juice extractors. 267,832; Nov. 13. Class 21.
Cantor, Charles I., doing business as Decoltin Company, New York, N. Y. Depilatory. 272,136; Nov. 13. Class 6.
Celanese Corporation of America, New York, N. Y. Woven and knitted fabrics. 272,093; Nov. 13. Class 42.
Celanese Corporation of America, New York, N. Y. Fabrics. 273,443; Nov. 13. Class 42.
Chase, W. P., Candy Corporation, Brooklyn, N. Y. Candy lozenges. 272,695–6; Nov. 13. Class 46.
Chemische Fabrik Helfenberg A. G. vorm. Eugen Dieterich, Helfenberg, near Dresden, Germany. Medicaments. 262,205; Nov. 13. Class 6.
Cheney, Walter A., Bowtie Co., Boston, Mass. Neckties, scarfs, and cravats. 272,862; Nov. 13. Class 39.
Chrysler Corporation, Detroit, Mich. Automobiles and their structural parts. 272,137; Nov. 13. Class 19.
Coast Fishing Co., Wilmington, Calif. Canned fish. 273,340; Nov. 13. Class 46.
Collins, John A., doing business as The Collins Company, Newark and Dayton, Ohio. Combination powder. 249,044; Nov. 13. Class 6.
Columbia River Packers Association, Astoria, Oreg. Canned salmon. 273,227; Nov. 13. Class 46.
Comer, Homer L., doing business as The Homer Comer Company, Marion, Ohio. Preparation for use in the treatment of the hair. 269,578; Nov. 13. Class 6.
Compagnie Parento, Inc., Croton-on-the-Hudson, N. Y. Essential oils, oleo resins, savon oils, etc. 271,293; Nov. 13. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Conveyor Sales Company, Inc., New York, N. Y. Reciprocating conveyors, conveyor drives, troughs, etc. 264,424; Nov. 13. Class 23.

Cranfill, Howard, Co., South Bend, Ind. Lubricating oils and lubricating greases. 270,745; Nov. 13. Class 15.

Cream of Wheat Company, Minneapolis, Minn. Wheat breakfast food. 273,288; Nov. 13. Class 46.

Crucible Knife Co. (See Grant, W. T., Company.)

Curtiss Aeroplane and Motor Company, Inc., Buffalo and Garden City, N. Y. Aeroplanes. 265,622; Nov. 13. Class 19.

Dannemiller Grocery Company, The, Canton, Ohio. Staples and canned goods. 261,796; Nov. 13. Class 46.

De Bevoise, Chas. R., Company, Newark, N. J. Combinations of bandeaux or brassières and panties. 272,325; Nov. 13. Class 39.

Decoltin Company. (See Cantor, Charles I.)

Delco-Remy Corporation, Anderson, Ind., and Dayton, Ohio. Windshield wipers. 272,260; Nov. 13. Class 29.

Delettrez Inc., New York, N. Y. Astringents, bleach and beauty creams, rouges, etc. 256,399; Nov. 13. Class 6.

Deming, William L., Salem, Ohio. Shower baths and parts thereof. 273,046; Nov. 13. Class 13.

Devel's Chemical Co., Inc., Sylvester, Ga. Medicine. 263,694; Nov. 13. Class 6.

Donnelly, Antoinette, Ltd., Norwich, N. Y. Skin lotions, hair shampoos, complexion creams, etc. 269,074; Nov. 13. Class 6.

Driver-Harris Company, Harrison, N. J. Diamond dies and composition wire dies. 269,643; Nov. 13. Class 23.

Duncan, Paul James, Inc., New York, N. Y. Ointment. 272,648; Nov. 13. Class 6.

Du Pont Rayon Company, Buffalo, N. Y. Knitted and woven piece goods. 272,095–6; Nov. 13. Class 42.

Du Pont Rayon Company, Buffalo, N. Y. Cellulose acetate yarns, threads, and filaments. 272,097; Nov. 13. Class 43.

Earl Fruit Company, San Francisco, Calif. Fresh fruits. 271,883; Nov. 13. Class 46.

Eidinger, Robert, Chicago, Ill. Waterproof cloth fabrics and other waterproofed fabrics and yard goods and piece goods. 264,157; Nov. 13. Class 50.

Elder Mfg. Co., St. Louis, Mo. Shirts and boys' blouses. 272,874–6; Nov. 13. Class 39.

Electa, Instruments et Produits Therapeutiques, Société Anonyme, Lausanne, Switzerland. Apparatus for the treatment and prevention of habitual constipation. 269,280; Nov. 13. Class 44.

Ellis, Wilbur, Company, San Francisco, Calif. Stock food. 242,872; Nov. 13. Class 46.

Ellison Publishing Co., Inc., New York, N. Y. Trade publications. 273,137; Nov. 13. Class 38.

Enid Mfg. Co., New York, N. Y. Brassières. 272,606; Nov. 13. Class 39.

Fabbrica di Conserve Alimentari. (See fu Nicola, G. Rinaldi.)

Fashion Park Incorporated, Rochester, N. Y. Women's coats. 272,202; Nov. 13. Class 39.

Feldman, David, doing business as Feldman and Sons, Baltimore, Md. Work shirts. 271,884; Nov. 13. Class 39.

Feldman, David, doing business as Feldman and Sons, Baltimore, Md. Work shirts. 271,886; Nov. 13. Class 39.

Fixzit Company. (See Bentz, Frank J.)

Fondaol Laboratories Company, Independence, Mo. Medicinal ointment. 265,375; Nov. 13. Class 6.

Ford, J. B., Company, The, Wyandotte, Mich. Lye and chlorinated lime. 271,888; Nov. 13; Class 6.

Frankart, Inc., New York, N. Y. Electric lamps. 272,207; Nov. 13. Class 21.

Garneau & De Bruyn, Inc., doing business as Bico Distributing Company, New York, N. Y. Canned fish. 248,529; Nov. 13. Class 46.

Garve Freres, Inc., New York, N. Y. Felt hats. 272,483; Nov. 13. Class 39.

Geigy Company, Inc., New York, N. Y. Dyestuffs. 271,804; Nov. 13. Class 6.

Glika, J. A., A. G., Berlin, Germany. Alcoholic liquors and spirits. 257,799; Nov. 13. Class 49.

Goetz, M. K., Brewing Co., St. Joseph, Mo. Malt tonic. 262,454; Nov. 13. Class 6.

Golden Dawn Hosiery Shops, Wilmington, Del. Hosiery and underwear. 271,437; Nov. 13. Class 39.

Golden, Samuel, doing business as Golden Printing Service, New York, N. Y. Magazine or periodical. 266,421; Nov. 13. Class 38.

Goldstein, Adolph O., Santa Cruz, Calif. Frozen confections. 257,157; Nov. 13. Class 46.

Gould, Barbara, Ltd., New York, N. Y. Astringents, bleach and beauty creams, rouges, etc. 271,675; Nov. 13. Class 6.

Goyer, Thomas E., doing business as Pennebaker Chemical Co., Jackson, Tenn. Medicine. 270,965; Nov. 13. Class 6.

Grant, W. T., Company, doing business as Crucible Knife Co., Lynn, Mass., and New York, N. Y. Penknives. 268,688; Nov. 13. Class 23.

Graphite Oil Products Corporation, The, Cleveland, Ohio. Lubricating oils. 272,156; Nov. 13. Class 15.

Gravelle & Weiant, South Orange, N. J. Mercury-vapor lamps. 267,764; Nov. 13. Class 44.

Gray, Manuel, Mexico, Mexico. Medicinal preparation. 269,634; Nov. 13. Class 6.

Green Bros. Company, Springfield, Mass. Confection. 250,535; Nov. 13. Class 46.

Griess Pfleger Tanning Company, The, Cincinnati, Ohio. Leather. 272,653; Nov. 13. Class 1.

Gros, Edward P., Canajoharie, N. Y. Coffee percolators. 273,367; Nov. 13. Class 13.

Guinzburg, Edwin A., New York, N. Y. Bathing shoes. 272,080; Nov. 13. Class 39.

Guntrath-Lorenzen Co., Chicago, Ill. Cake-flour preparation. 269,655; Nov. 13. Class 46.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 273,460; Nov. 13. Class 42.

Handest, Neil, doing business as Handest Specialty Co., New York, N. Y. Cleaning, dusting, and polishing cloths and shoe polishers. 270,768; Nov. 13. Class 29.

Haulfen, John E., Company, Philadelphia, Pa. Sweaters, bathing suits, undershirts, etc. 271,491; Nov. 13. Class 39.

Hanley, John, Detroit, Mich. Fuel mixers. 272,885; Nov. 13. Class 23.

Harris, Oscar O., doing business as Peerless Food Products & Supply Co., Philadelphia, Pa. Malt syrup. 271,852; Nov. 13. Class 46.

Hathaway, Alfred R., doing business as Stat-El-Lyte Laboratories, Emeryville, Calif. Storage-battery-preserving compound. 272,102; Nov. 13. Class 6.

Health Products Corporation, Newark, N. J. Medicated chewing tablets. 267,655; Nov. 13. Class 6.

Heiserman, Leon L., doing business as Missouri Floral Company, St. Louis, Mo. Artificial flowers. 265,272; Nov. 13. Class 40.

Helms, Earl T., Kansas City, Mo. Comic strip. 270,966; Nov. 13. Class 38.

Hesslein, Neuss, & Co. Inc., New York, N. Y. Cotton piece goods. 258,035; Nov. 13. Class 42.

Hill-Hubbell & Company, San Francisco, Calif. Graphite base paint. 272,218; Nov. 13. Class 16.

Hill-Hubbell & Company, San Francisco, Calif. Paint enamel. 272,219; Nov. 13. Class 16.

Hirsch, Sol, doing business as Dr. Hirsch's Laboratories, New York, N. Y. Therapeutic preparations. 270,674; Nov. 13. Class 6.

Holsten, Young & Co., New York, N. Y. Ladies' and misses' coats. 272,656; Nov. 13. Class 39.

Howdy Company, The, St. Louis, Mo. Maltless beverages, and syrups, extracts, and flavors used in making the same. 273,370; Nov. 13. Class 45.

Hubler, George W., doing business as Geo. W. Hubler Shoe Co., Auburn, Pa. Shoes. 238,790; Nov. 13. Class 39.

Hunt, Helm, Ferris & Co., Harvard, Ill. Airplane swings for children. 272,031; Nov. 13. Class 22.

Hustler Toy Corporation, Sterling, Ill. Question and answer game. 273,235; Nov. 13. Class 22.

I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chemicals. 271,808; Nov. 13. Class 6.

I. G. Farbenindustrie Aktiengesellschaft, Leverkusen, Germany. Solid absorptive materials. 255,652; Nov. 13. Class 6.

Illinois Powder Mfg. Co., St. Louis, Mo. Dynamite. 273,402; Nov. 13. Class 9.

Illinois Western Coal Company, Chicago, Ill. Coal. 272,405; Nov. 13. Class 1.

In-A-Wall Safe Company, Inc., Los Angeles, Calif. Safes. 272,276; Nov. 13. Class 25.

International Harvester Company, Chicago, Ill. Twine. 273,104; Nov. 13.

International Nickel Company, The, New York, N. Y. Green nickel oxide and black nickel oxide. 272,717; Nov. 13. Class 6.

International Oxygen Company, Newark, N. J. Hydrogen, oxygen, nitrogen, etc. 271,186; Nov. 13. Class 6.

International Paint & Compositions Company, Limited, The, London, England. Paints. 272,220; Nov. 13. Class 16.

Irvine Valencia Growers, Irvine, Calif. Fresh citrus fruits. 270,129; Nov. 13. Class 46.

Isaacs, Charlotte, Berkeley, Calif. Wall hook racks. 267,126; Nov. 13. Class 13.

Jackman, Joseph, & Co. Limited, Sheffield, England. Steel and iron, cast steel, etc. 273,191; Nov. 13. Class 14.

Johnson, Walter B., doing business as The Slb Company, Boston, Mass. Bath salts. 260,178; Nov. 13. Class 6.

Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Light-sensitive copying and photographic papers. 260,891; Nov. 13. Class 26.

Kane, Thomas B., doing business as Philadelphia Bottling Company, Philadelphia, Pa. Distilled water. 272,718; Nov. 13. Class 45.

Kaufmann Department Stores, Inc., Pittsburgh, Pa. Men's dress and work shirts. 272,614–5; Nov. 13. Class 39.

Key West Coca-Cola Bottling Co. (See Thompson, Karl O.)

Keystone Laboratories, Memphis, Tenn. Hair dressing and straightener. 254,916; Nov. 13. Class 6.



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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Kinfolks Incorporated, Little Valley, N. Y. Razors and hand knives. 261,365; Nov. 13. Class 23.

Knott, Wm. T., Company Inc., New York, N. Y. Sheets, pillowcases, and sheetings. 272,618; Nov. 13. Class 42.

Lange, Carvel H., New York, N. Y. Golf game. 272,990; Nov. 13. Class 22.

Lastreto & Co., San Francisco, Calif. Fresh deciduous fruits. 273,343; Nov. 13. Class 46.

La Victoria Packing Co. (See Baca, Pablo.)

Lazarus, F. & R., & Company, The, Columbus, Ohio. Boots and shoes. 272,567; Nov. 13. Class 39.

Lelong, Lucien, Paris, France. Dresses and outer waists, tailored suits, sweaters, etc. 257,167; Nov. 13. Class 39.

Les Etablissements Antoine Chiris, Compagnie des Produits Aromatiques, Chimiques et Medicinaux, Paris, France. Essential oils, flavoring materials. 272,411; Nov. 13. Class 6.

Les Grands Parfums de France, Inc., New York, N. Y. Perfumes, toilet waters, lip sticks, etc. 272,412; Nov. 13. Class 6.

Lichtenberg, L., doing business as Suffolk Malt Products Co., Bay Shore, Long Island, N. Y. Malt syrup. 272,413; Nov. 13. Class 46.

Linder Brothers, Inc., New York, N. Y. Ladies' coats and suits. 272,766; Nov. 13. Class 39.

Long, W. E., Company, The, Chicago, Ill. Publication. 272,993; Nov. 13. Class 38.

Lucas, John, & Co., Inc., Philadelphia, Pa. Enamel. 272,335; Nov. 13. Class 16.

Luciano, P., & Sons, Newark, N. J. Hair tonic. 273,194; Nov. 13. Class 6.

Lutton, William H., Company, Jersey City, N. J. Greenhouses. 272,619; Nov. 13. Class 12.

Lyell Products Company, Rochester, N. Y. Malt syrup. 272,114; Nov. 13. Class 46.

Macy, R. H., & Co., Inc., New York, N. Y. Lawn mowers. 264,242; Nov. 13. Class 23.

Madelon Modes, Inc., New York, N. Y. Perfumes and toilet water. 272,164; Nov. 13. Class 6.

Magner, Philip H., doing business as The Algecin Co., Buffalo, N. Y. Medical preparation. 272,724–5; Nov. 13. Class 6.

Manning, Paul, doing business as The Manning Company, West Springfield, Mass. Perfumes and deodorants. 269,675; Nov. 13. Class 6.

Maskin- och Brobyggnads Aktiebolaget, Helsingfors, Finland. Dairy machinery. 258,185; Nov. 13. Class 23.

McConnell, John W., Augusta, Kans. Preparation for treating the scalp, etc. 272,169–70. Nov. 13. Class 6.

McKesson & Robbins, Incorporated, Bridgeport, Conn. Ointment. 262,742. Nov. 13. Class 6.

McLeod Furniture Company, Laurel, Miss. Tables, library desks, home desks, etc. 271,448; Nov. 13. Class 32.

Mead Johnson & Company, Evansville, Ind. Specially-prepared food product. 271,815; Nov. 13. Class 46.

Menley & James, Limited, New York, New York, N. Y. Solution. 272,174; Nov. 13. Class 6.

Mennen Company, The, Newark, N. J. Shaving cream. 272,226; Nov. 13. Class 4.

Miner, Est. Henry C., Inc., New York, N. Y. Chemical preparations. 262,395; Nov. 13. Class 6.

Mineraloxide Corporation, Daytona Beach, Fla. Ferruginous tonic. 268,742; Nov. 13. Class 6.

Miranda, Vito, Corona, N. Y. Preparation for the treatment of rheumatism and sciatica. 269,196; Nov. 13. Class 6.

Monnier, L., & Cie., La Chaux-de-Fonds, Switzerland. Watches and watch materials. 267,378; Nov. 13. Class 27.

Mueller Boiler Compound & Chemical Co., Minneapolis, Minn. Compound for the internal treatment of pipe lines, heaters, and boilers. 271,496; Nov. 13; Class 6.

Murray, Charles D., doing business as Murray's Superior Products Co., Chicago, Ill. Shampoos. 263,556; Nov. 13. Class 6.

Macy, R. H., & Co., Inc., New York, N. Y. Morning dresses. 264,241; Nov. 13. Class 39.

Mainzer Minton Corporation, New York, N. Y. Textile fabrics. 271,135–6; Nov. 13. Class 42.

Manson Hat Co., Inc., New York, N. Y. Men's hats and caps. 272,039; Nov. 13. Class 39.

Maryland Premium Redemption Company, Baltimore, Md. Trade coupons. 272,726; Nov. 13. Class 38.

McCain-Wright, Inc., St. Louis, Mo. Women's shoes. 270,797; Nov. 13. Class 39.

Melrose Hosiery Mills. (See Amos, Charles L.)

Metro Art Studio. (See Pergl, Jaroslav.)

Miller, Arleigh M., Harrisburg, Pa. Shoes. 271,588; Nov. 13. Class 39.

Missouri Floral Company. (See Heiserman, Leon L.)

Modern Cloak & Suit Company, Philadelphia, Pa. Coats and suits. 269,850; Nov. 13. Class 39.

Modern Milwaukeean Company, Milwaukee, Wis. Magazines. 273,154; Nov. 13. Class 38.

Mountain City Mill Co., Inc., Chattanooga, Tenn. Wheat flour. 273,308; Nov. 13. Class 46.

National Petticoat & Undergarment Corporation, New York, N. Y. Women's and children's undergarments. 271,901; Nov. 13. Class 39.

National Textile Dist. Corp., New York, N. Y. Men's and boys' outer wear, and women's and children's outer wear and underwear. 272,344; Nov. 13. Class 39.

Neale, George H., doing business as Tickle-Tab Company, Elkins, W. Va. Medicinal tablets. 271,816; Nov. 13. Class 6.

Neff, George L., doing business as Geo. L. Neff & Co., Pittsburgh, Pa. Coffee. 272,046; Nov. 13. Class 46.

Nesbitt Fruit Products, Inc., Los Angeles, Calif. Maltless beverages and syrups, extracts, and concentrates for preparing same. 271,902; Nov. 13. Class 45.

Neva-Clog Products, Inc., Bridgeport, Conn. Loose-leaf notebooks. 273,509; Nov. 13. Class 37.

Newport Company, The, Carrollville, Wis. Dyes, dyestuffs, and colors. 271,559; Nov. 13. Class 6.

Niketol, Inc., New York, N. Y. Anæsthetics. 252,347; Nov. 13. Class 6.

Nitrate Agencies Company, New York, N. Y. Preparation for use as an insect exterminator. 268,304–5; Nov. 13. Class 6.

Novosol Chemical Company, New York, N. Y. Intravenous solutions. 273,621; Nov. 13. Class 6.

Orange Crush Co., Chicago, Ill. Empty glass bottles. 186,850; Nov. 13. Class 33.

Orange Laboratories, Inc., Tampa, Fla. Top dressing and auto top weatherproofing, etc. 272,299; Nov. 13. Class 4.

Oshkosh Trunk Company, The, Oshkosh, Wis. Small hand bags. 272,180; Nov. 13. Class 3.

Packer Manufacturing Company, Inc., The New York, N. Y. Olive-oil shampoo. 256,481; Nov. 13. Class 6.

Page Dress Shop, Incorporated, Detroit, Mich. Frocks and dresses. 268,460; Nov. 13. Class 39.

Paraffine Companies, Inc., The, San Francisco, Calif. Prepared floor coverings. 273,559; Nov. 13. Class 20.

Park Watch Import Co., Inc., Buffalo, N. Y. Watches. 271,564; Nov. 13. Class 27.

Parkington, J. R., & Co., Ltd., London, England. Muscatel wine. 247,389; Nov. 13. Class 47.

Partridge, Grace S., Washington, D. C. Hand-woven cloth, material for ladies' dresses. 267,600; Nov. 13. Class 42.

Passwaters, Lillian, Wilmington, Del. Liniment. 272,448; Nov. 13. Class 6.

Peerless Food Products & Supply Co. (See Harris, Oscar O.)

Pennebacker Chemical Co. (See Goyer, Thomas E.)

Pergl, Jaroslav, doing business as Metro Art Studio, Chicago, Ill. Photographs, water-color drawings, etc. 245,515; Nov. 13. Class 38.

Permanent Records Corporation Limited, New York, N. Y. Permanent photographic records on metal. 273,069; Nov. 13. Class 38.

Pep-Steps Co., The, Montgomery, Ala. Laxative medicine. 267,508; Nov. 13. Class 6.

Peterson, H. S., & Co., Chicago, Ill. Jelly. 273,410; Nov. 13. Class 46.

Philadelphia Bottling Company. (See Kane, Thomas B.)

Philadelphia Storage Battery Co., Philadelphia, Pa. Radio receiving sets and radio speakers. 272,425; Nov. 13. Class 21.

Photomaton Operating Corporation, New York, N. Y. Adhesive cement. 270,801; Nov. 13. Class 5.

Playgolf, Inc., Cleveland, Ohio. Parlor or indoor golf games. 270,350; Nov. 13. Class 22.

Plaza Music Company, New York, N. Y. Musical instruments and supplies. 270,754; Nov. 13. Class 36.

Plaza Music Company, New York, N. Y. Sheet music. 273,160; Nov. 13. Class 38.

Posner, Harold, Brooklyn, N. Y. Ladies' hosiery and knitted underwear. 271,507; Nov. 13. Class 39.

Powdrell & Alexander, Inc., Boston, Mass. Piece goods and curtains. 272,897; Nov. 13. Class 42.

Prokop, Frank, Milwaukee, Wis. Wrenches. 273,161; Nov. 13. Class 23.

Puyallup & Sumner Fruit Growers Association, Puyallup, Wash. Canned fruits. 273,206; Nov. 13. Class 46.

Rabbes, Henry, Washington, D. C. Laxative preparation. 272,511; Nov. 13. Class 6.

Raymond's Inc., Boston, Mass. Radio products. 272,430; Nov. 13. Class 21.

Regal Musical Instrument Company, Chicago, Ill. Stringed musical instruments. 263,618; Nov. 13. Class 36.

Reiter, Anna, Canton, Ohio. Salve. 272,431; Nov. 13. Class 6.

Rekosh, Paul, Rosemont, W. Va. Palliative for constipation, etc. 271,455; Nov. 13. Class 6.

Rex Agency, Sioux City, Iowa. Publications. 273,208; Nov. 13. Class 38.

Rhinelander Refrigerator Co., Rhinelander, Wis. Refrigerators. 272,350; Nov. 13. Class 31.

Rhinelander Refrigerator Co., Rhinelander, Wis. Refrigerators. 272,352; Nov. 13. Class 31.

Rigney, William A., Newark, N. J. Medicinal compounds. 272,736; Nov. 13. Class 6.

Rinaldi, G., fu Nicola, also doing business as Fabbrica di Conserve Alimentari, Mercato San Severino, Salerno, near Naples, Italy, and New York, N. Y. Canned natural tomato sauce. 248,795; Nov. 13. Class 46.

Robert Enterprises, Inc., New York, N. Y. Bath salts, dusting powders, and perfumes. 271,771; Nov. 13. Class 6.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Rud. Sack, Leipzig, Germany. Agricultural implements. 271,626; Nov. 13. Class 23.
Russell, Anna L., New York, N. Y. Candy and candied fruits. 268,939; Nov. 13. Class 46.
Samson Cordage Works, Boston, Mass. Cords, lines, twines, and ropes. 270,352; Nov. 13. Class 7.
San Dimas Orange Growers Association, San Dimas, Calif. Fresh citrus fruits. 273,320; Nov. 13. Class 46.
Schabacker, C. Edgar, Buffalo, N. Y. Candies. 241,070; Nov. 13. Class 46.
Schrafft's Stores, The. (See Shattuck, Frank G., Company.)
Schram, Frank X., Chicago, Ill. Medicaments. 264,053; Nov. 13. Class 6.
Scientific Press, Inc., New York, N. Y. Periodical or trade paper. 273,017; Nov. 13. Class 38.
Shattuck, Frank G., Company, doing business as The Schrafft's Stores, New York, N. Y. Candy. 273,324; Nov. 13. Class 46.
Shinn and Irey, Denver, Colo. Preparation for killing dandelions. 265,019; Nov. 13. Class 6.
Shiral, W., doing business as Shiral & Co., San Francisco, Calif. Medicine. 271,830; Nov. 13. Class 6.
Sib Company, The. (See Johnson, Walter B.)
Sidenberg, G., & Co. Inc., New York, N. Y. Cotton piece goods. 272,625; Nov. 13. Class 42.
Sinclair, John, Limited, Newcastle-on-Tyne, England. Smoking tobacco, cigarettes, and cigars. 271,576; Nov. 13. Class 17.
Skelton Shovel Co., Inc., Dunkirk, N. Y. Shovels and spades. 272,437; Nov. 13. Class 23.
Societa Adriatica Lavorazioni Alimentari, Trieste, Italy. Canned fish. 255,208; Nov. 13. Class 46.
Societa Anonyme: Parfumerie Violet, Paris, France. Perfumery, toilet waters, lip sticks, etc. 270,784–5; Nov. 13. Class 6.
Southwest Specialties Company, The, Wichita, Kans. Penetrating oils. 264,392; Nov. 13. Class 15.
Spalding, A. G., & Bros., New York, N. Y. Ice skates. 268,754; Nov. 13. Class 22.
Speedaumatic Company, The, Chicago, Ill. Printing plates, addressing machines, etc. 217,644; Nov. 13. Class 23.
Springfield Leather Products Company, The, Springfield, Ohio. Friction cigarette lighters. 272,443; Nov. 13. Class 34.
Standard Publishing Company, Butte, Mont. Newspaper. 273,078; Nov. 13. Class 38.
Standard Publishing Company, Butte, Mont. Newspaper. 273,525; Nov. 13. Class 38.
Stat-El-Lyte Laboratories. (See Hathaway, Alfred R.)
Steele & Meredith Co., The, Springfield, Ohio. Canned fruits, canned vegetables, and wheat flour. 272,065; Nov. 13. Class 46.
Stern Brothers, New York, N. Y. Gloves. 272,677; Nov. 13. Class 39.
Studebaker Corporation, The, South Bend, Ind. Automobiles. 273,119; Nov. 13. Class 19.
Suffolk Malt Products Co. (See Lichtenberg, L.)
Sun-Maid Raisin Growers of California, Fresno, Calif. Fresh grapes. 270,058–9; Nov. 13. Class 46.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. 273,477–8; Nov. 13. Class 42.
Susquehanna Silk Mills, New York, N. Y. Silk piece goods. 273,480; Nov. 13. Class 42.
Tarte, Elie, Verdun, Quebec, Canada. Ointments. 264,215; Nov. 13. Class 6.
Texas Laundry Machinery Company, Inc., The, San Antonio, Tex. Laundry washing machines. 255,277–8; Nov. 13. Class 24.
Thompson, Karl O., doing business as Key West Coca-Cola Bottling Co., Key West, Fla. Pineapple drink and sirup and extract for making the same. 273,333; Nov. 13. Class 45.
Tickle-Tab Company. (See Neale, George H.)
Tittemore, Cyril L., doing business as C. L. Tittemore Company, San Francisco, Calif. Spraying equipment. 271,367; Nov. 13. Class 23.
Transkrit, A. G., Zurich, Switzerland. Copying blanks. 272,835; Nov. 13. Class 37.
Tru-Lax Manufacturing Company. (See Blackstone Manufacturing Company.)
Trunde, John, Newberg, Oreg. Salve. 271,668; Nov. 13. Class 6.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Soles for shoes. 271,281; Nov. 13. Class 39.
Warren Manufacturing Co., The, Riegelsville, N. J., and New York, N. Y. Wrapping paper. 272,968; Nov. 13. Class 37.
Waterman, L. E., Company, New York, N. Y. Writing inks. 268,194; Nov. 13. Class 11.
Waterman, L. E., Company, New York, N. Y. Writing inks. 268,196; Nov. 13. Class 11.
Weber Medical Tea Company, The, Brooklyn, N. Y. Laxative preparations. 271,910; Nov. 13. Class 6.
Weber Medical Tea Company, The, Brooklyn, N. Y. Laxative preparations. 271,912; Nov. 13. Class 6.
Wente Bros., Livermore, Calif. Fresh grapes. 273,336; Nov. 13. Class 46.
Wheeler, Elvin, Atlanta, Ga. Razor-strop dressing. 272,742; Nov. 13. Class 4.
Wheeling Steel Corporation, Wheeling, W. Va. Sheet-steel roofing. 272,371; Nov. 13. Class 12.
Whisk Razor Corporation, Buffalo, N. Y. Electric razors and razor blades. 264,623; Nov. 13. Class 23.
Williams, Percy B. T., Philadelphia, Pa. Combs. 271,726; Nov. 13. Class 40.
Wipf, Jacob H., Freeman, S. Dak. Preparation for the treatment of pyorrhea. 261,090; Nov. 13. Class 6.
"Wisty" Products Company, Inc., The, New York, N. Y. Orange tonic beverage. 264,131; Nov. 13. Class 45.
Wolf, Edward, doing business as Edward Wolf & Co., Chicago, Ill. Chili powder, red pepper, cinnamon, etc. 267,474; Nov. 13. Class 46.
Wolfe, Richard, Chicago, Ill. Device to be worn by a person when playing golf. 263,018; Nov. 13. Class 22.
Woolen Corporation of America, The, New York, N. Y. Wool, worsted, cotton, silk, rayon, etc. 273,428; Nov. 13. Class 42.
Yates-American Machine Company, Beloit, Wis. Knives for woodworking machines. 271,527; Nov. 13. Class 23.
York Heating & Ventilating Corporation, Bridgeport, Pa. Air-cooling apparatus. 272,016; Nov. 13. Class 24.
Yorkville Upholstery Co., Inc., New York, N. Y. Sofas and upholstered chairs. 272,236; Nov. 13. Class 32.
Young, Melvin, New York, N. Y. House organ. 268,667; Nov. 13. Class 38.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 2.

Baskets, Shipping. Marshall Manufacturing Company. 249,482; Nov. 13; Serial No. 267,660; published Sept. 4, 1928.
Boxes and crates, Wooden. National Box Company. 249,538; Nov. 13.

## CLASS 4.

Abrasive grinding and polishing wheel. Abrasive Company. 249,417; Nov. 13; Serial No. 265,875; published Aug. 7, 1928.
Cleaner, General household. R. F. Hatfield, sr. 249,404; Nov. 13; Serial No. 263,395; published Aug. 28, 1928.
Cleaner, Liquid dry. Purity Chemical Products Co. 249,468; Nov. 13; Serial No. 261,988; published Aug. 28, 1928.
Cleaning composition, Dry. A. R. Jennings. 249,398; Nov. 13; Serial No. 268,927; published Aug. 28, 1928.
Cleaning compound. Commutator Cleanser Co. 249,471; Nov. 13; Serial No. 268,967; published Aug. 28, 1928.
Grinding wheels and abrasive cutting wheels, Abrasive. Redmanol Chemical Products Company. 249,286; Nov. 13; Serial No. 260,749; published Aug. 28, 1928.
Liquids for cleaning. Liquid Veneer Corporation. 249,442; Nov. 13; Serial No. 267,972; published Aug. 28, 1928.
Polish. J. L. Prescott & Co. 31,982; renewed Sept. 20, 1928.
Polish, Metal. F. T. Lord Polish Co. 73,002; renewed Mar. 9, 1929.
Polishes, sweeping compounds, etc., Metal. J. C. P. Helm. 249,373; Nov. 13; Serial No. 258,870; published Aug. 28, 1928.
Shaving cream. Corinna Incorporated. 249,311; Nov. 13; Serial No. 268,272; published Aug. 28, 1928.
Soap and Na-p. toluenesulfochloramide, etc., Mixtures of. Chemische Fabrik von Heyden A. G. 249,520; Nov. 13; Serial No. 239,966; published Aug. 28, 1928.
Soaps. M & H Company. 249,406; Nov. 13; Serial No. 262,171; published Aug. 28, 1928.
Washing powder. S. J. Braun. 31,884; renewed Aug. 16, 1928.

## CLASS 6.

Acetate, butyl acetate, etc., Ethyl. Publicker Incorporated. 249,320; Nov. 13; Serial No. 269,549; published Aug. 21, 1928.
Albumin compound containing phosphorus. Farbwerke, vormals Meister Lucius & Brüning. 32,211; renewed Dec. 6, 1928.
Albuminates and compounds thereof. Eberhard Von Bodenhausen. 32,174; renewed Nov. 22, 1928.
Aldehyde, synthetics resins, etc., Normal butyric. Commercial Solvents Corporation. 249,491; Nov. 13; Serial No. 267,407; published Aug. 14, 1928.



Anesthetic, Local. Farbwerke, vormals Meister Lucius & Brüning. 32,210; renewed Dec. 6, 1928.
Antiseptic. Dykon Products Company. 249,375; Nov. 13; Serial No. 259,054; published Aug. 14, 1928.
Astringents, astringent cerates, beauty creams, etc. Fries & Fries Co. 249,351; Nov. 13; Serial No. 269,108; published Aug. 28, 1928.
Beautifier, Liquid. J. Willicombe. 249,370; Nov. 13; Serial No. 257,948; published July 10, 1928.
Calcium guaiacol sulphonate. Swan-Myers Company. 249,453; Nov. 13; Serial No. 267,809; published Aug. 14, 1928.
Chemical compound. Oakite Products, Inc. 249,419; Nov. 13; Serial No. 265,080; published Aug. 14, 1928.
Chemical dye aids. H. Th. Böhme A. G. 249,280; Nov. 13; Serial No. 266,785; published Aug. 21, 1928.
Chemical preparation. O. D. Fusco. 249,342; Nov. 13; Serial No. 263,119; published Aug. 14, 1928.
Colors, Food. Colortone Company. 249,278; Nov. 13; Serial No. 266,850; published Aug. 14, 1928.
Compacts. Peoples Drug Stores, Inc. 249,431; Nov. 13; Serial No. 265,008; published Aug. 14, 1928.
Compound for the treatment of diseases of the skin and bowels of poultry, hogs, and other animals. Lagno Laboratories, Inc. 249,527; Nov. 13; Serial No. 246,417; published Aug. 28, 1928.
Compounds for processing and tanning leather. E. F. Houghton & Co. 249,256; Nov. 13; Serial No. 268,441; published Aug. 14, 1928.
Compounds, Tanning. Wellington Process Company. 249,234; Nov. 13; Serial No. 268,407; published Aug. 28, 1928.
Cosmetics. Peoples Drug Stores, Inc. 249,432; Nov. 13; Serial No. 265,007; published Aug. 14, 1928.
Creams, Facial. Palmolive-Peet Company. 249,463; Nov. 13; Serial No. 262,767; published Aug. 14, 1928.
Cure for consumption. Kalle & Co. 32,177–8; renewed Nov. 22, 1928.
Cure for consumption. Kalle & Co. 32,287; renewed Dec. 27, 1928.
Deodorant compounds. H. J. Presenger. 249,441; Nov. 13; Serial No. 267,995; published Aug. 28, 1928.
Deodorant, Liquid. J. Dymnicki. 249,315; Nov. 13; Serial No. 269,449; published Aug. 28, 1928.
Deodorants, Toilet. S. J. Deal. 72,837; renewed Mar. 2, 1929.
Disinfectant and deodorant preparation, Liquid. I. McEwen. 249,365; Nov. 13; Serial No. 269,415; published Aug. 21, 1928.
Disinfectants and insecticides. E. Taussig. 32,482; renewed Feb. 7, 1929.
Dyestuffs. Farbwerke, vormals Meister Lucius and Brüning. 32,209; renewed Dec. 6, 1928.
Facial products. Portite Facial Products Co. 249,231; Nov. 13; Serial No. 268,390; published Aug. 21, 1928.
Insecticide. Dallas Druggists Syndicate. 249,243; Nov. 13; Serial No. 266,360; published Aug. 14, 1928.
Insecticides. Standard Oil Company. 249,326; Nov. 13; Serial No. 269,928; published Aug. 28, 1928.
Insectifuges, demothing and moth-resisting compounds. American Cyanamid Company. 249,480; Nov. 13; Serial No. 267,687; published Aug. 14, 1928.
Koji, moyashi, diastase, etc. International Takamine Ferment Company. 249,298; Nov. 13; Serial No. 254,673; published Aug. 7, 1928.
Laxative preparation. Upjohn Company. 249,366; Nov. 13; Serial No. 257,040; published Aug. 28, 1928.
Laxative preparations. Weber Medical Tea Company. 249,229; Nov. 13; Serial No. 268,330; published Aug. 28, 1928.
Liniment. C. H. Salmons. 249,293; Nov. 13; Serial No. 251,688; published Aug. 14, 1928.
Liniment. Troy Chemical Co. 249,276; Nov. 13; Serial No. 266,899; published Aug. 14, 1928.
Liquid spray, Nuisance-preventing. S. S. Rosen. 249,325; Nov. 13; Serial No. 269,917; published Aug. 28, 1928.
Lotion, Medicated foot. Dallas Druggists Syndicate. 249,245; Nov. 13; Serial No. 266,358; published Aug. 14, 1928.
Medical compounds. L. W. Gans. 32,242; renewed Dec. 13, 1928.
Medical preparation. Mineralac Laboratories. 249,478; Nov. 13; Serial No. 267,715; published Aug. 14, 1928.
Medical preparation. Oxy-Vaporol Company. 249,304; Nov. 13; Serial No. 256,682; published Dec. 13, 1927.
Medicament. R. B. Waite. 249,274; Nov. 13; Serial No. 266,960; published Aug. 28, 1928.
Medication in capsule form. Henry K. Wampole and Company, Incorporated. 249,233; Nov. 13; Serial No. 268,406; published Aug. 21, 1928.
Medicinal compound. Alkaloi Company. 70,850; renewed Oct. 13, 1928.
Medicinal preparation. Brown Remedy Co. 249,369; Nov. 13; Serial No. 257,782; published Aug. 21, 1928.
Medicinal preparation. J. J. Vetter. 70,721; renewed Sept. 29, 1928.
Medicinal preparation containing vitamin D. British Drug Houses, Limited. 249,273; Nov. 13; Serial No. 266,972; published Aug. 21, 1928.
Medicinal preparation for indigestion, etc. Dallas Druggists Syndicate. 249,244; Nov. 13; Serial No. 266,359; published Aug. 14, 1928.
Medicinal preparations and products. Widmann & Teah, Inc. 249,504; Nov. 13; Serial No. 267,172; published Aug. 21, 1928.
Medicinal tonic. P. De La Montanya. 249,348; Nov. 13; Serial No. 269,098; published Aug. 28, 1928.
Medicine for wounds. Farbwerke, vormals Meister Lucius & Brüning. 32,213; renewed Dec. 6, 1928.
Medicines. T. Koseki. 249,291; Nov. 13; Serial No. 250,923; published Aug. 14, 1928.
Medicines. W. & H. Walker, Inc. 249,263; Nov. 13; Serial No. 268,009; published Aug. 28, 1928.
Ointment. A. H. Metcalf. 249,437; Nov. 13; Serial No. 264,037; published Aug. 28, 1928.
Ointment. J. Waskiewicz. 249,319; Nov. 13; Serial No. 269,538; published Aug. 21, 1928.
Perfume. M. I. Kitchlew. 249,523; Nov. 13; Serial No. 244,777; published Aug. 14, 1928.
Perfume, toilet water, etc. Elizabeth Arden, Inc. 249,444–8; Nov. 13; Serial Nos. 267,917–21; published Aug. 14, 1928.
Perfumes, extracts, toilet waters, and sachets. Richard Hudnut. 32,188; renewed Nov. 29, 1928.
Perfumes, toilet waters, bath salts, etc. Parfums Lionceau, Inc. 249,343; Nov. 13; Serial No. 263,786; published Aug. 21, 1928.
Pomade, Hair. H. Hendrie. 249,292; Nov. 13; Serial No. 251,442; published Aug. 14, 1928.
Pomades. O. G. Roura. 249,240; Nov. 13; Serial No. 266,403; published Aug. 28, 1928.
Powder and compacts, Face. Bourjois, Inc. 249,303; Nov. 13; Serial No. 256,443; published Aug. 14, 1928.
Preparation composed of chemicals and oils. B & C Chemical Co. 249,425; Nov. 13; Serial No. 265,360; published Aug. 21, 1928.
Preparation for growing hair. M. J. Molphus. 249,459; Nov. 13; Serial No. 264,493; published Aug. 28, 1928.
Preparation for removing carbon from internal-combustion engines, etc. N.-D.-N. Products Co. 249,501; Nov. 13; Serial No. 267,203; published Aug. 14, 1928.
Preparation for removing superfluous hair. C. M. Hudson. 249,306; Nov. 13; Serial No. 256,936; published Aug. 28, 1928.
Preparation for removing tobacco and nicotine stains from the skin. Nicotex Company. 249,438; Nov. 13; Serial No. 268,953; published Aug. 21, 1928.
Preparation for the relief of poison-ivy affections. F. X. Ostermann. 249,489; Nov. 13; Serial No. 267,504; published Aug. 21, 1928.
Preparation for the treatment of coughs, etc. J. F. Dearmitt. 249,275; Nov. 13; Serial No. 266,918; published Aug. 28, 1928.
Preparation for the treatment of hemorrhoids. Hart Drug Corporation. 249,260; Nov. 13; Serial No. 268,541; published Aug. 21, 1928.
Preparation for the treatment of the liver. Laboratoire de Pharmacologic, Inc. 249,439; Nov. 13; Serial No. 264,891; published Aug. 28, 1928.
Preparation for treatment of rheumatism, etc. Cavendish Chemical Corp. 249,394; Nov. 13; Serial No. 268,769; published Aug. 28, 1928.
Preparation, Medicinal. Joseph P. Maranto. 249,386; Nov. 13; Serial No. 268,618; published Sept. 11, 1928.
Preparation to stop runs in hosiery. Quix Inc. 249,396; Nov. 13; Serial No. 268,811; published Aug. 14, 1928.
Preparations. W. R. Bryan. 249,423; Nov. 13; Serial No. 265,422; published Aug. 28, 1928.
Preparations of albumen, Dietetic. Pharmaceutisches Institut Ludwig Wilhelm Gans. 32,145; renewed Nov. 8, 1928.
Preservatives, Food. C. Bertram. 249,360; Nov. 13; Serial No. 269,279; published Aug. 28, 1928.
Remedies, Fever. T. J. Vogelgesang. 31,875; renewed Aug. 16, 1928.
Remedies, Headache. L. N. Fishel. 249,363; Nov. 13; Serial No. 269,348; published Aug. 28, 1928.
Remedy. Farbwerke, vormals Meister Lucius & Brüning. 32,215–16; renewed Dec. 6, 1928.
Salts. La Salle Medicine Company. 249,487; Nov. 13; Serial No. 267,593; published Aug. 28, 1928.
Salve. L. Bocchio. 249,318; Nov. 13; Serial No. 269,507; published Aug. 21, 1928.
Salve. P. L. Mavrelis. 249,309; Nov. 13; Serial No. 268,232; published Aug. 21, 1928.
Salve, Medicinal. H. Bowman. 249,495; Nov. 13; Serial No. 267,347; published Aug. 21, 1928.
Sodium-p. toluenesulfochloramide, etc. Chemische Fabric von Heyden A. G. 249,391; Nov. 13; Serial No. 268,729; published Aug. 28, 1928.
Solution of alkali hypoiodite, Stable. Farastan Company. 249,364; Nov. 13; Serial No. 269,400; published Aug. 28, 1928.
Solvents, Drainpipe. Porcela-Radax Co. 249,449; Nov. 13; Serial No. 267,901; published Aug. 14, 1928.
Suppositories. C. S. Freedman. 249,474; Nov. 13; Serial No. 268,977; published Aug. 21, 1928.
Tonic for birds. C. H. Conley. 249,381; Nov. 13; Serial No. 259,622; published Aug. 28, 1928.
Tonic, Hair. E. Schaufler. 249,390; Nov. 13; Serial No. 268,705; published Aug. 28, 1928.
Tonic, vanishing and cold cream, Hair. E. Pippen. 249,376; Nov. 13; Serial No. 259,072; published Aug. 14, 1928.
Wash and gargle, Mouth. L. Ross. 249,464; Nov. 13; Serial No. 262,872; published Aug. 21, 1928.
Yohimbin and other alkaloid or glycosid preparations. Chemische Fabrik Güstrow Dr. Hillringhaus & Dr. Hellmann Aktiengesellschaft. 249,461; Nov. 13; Serial No. 263,072; published Aug. 14, 1928.

CLASS 10.

Dung, Artificial. Farbwerke, vormals Meister Lucius & Brüning. 32,212; renewed Dec. 6, 1928.
Fertilizer. Ford Motor Company. 249,344; Nov. 13; Serial No. 268,594; published Sept. 4, 1928.
Fertilizers, Artificial. Martellin Gesellschaft mit beschränkter Haftung. 32,148–9; renewed Nov. 8, 1928.

CLASS 11.

Transfer strips, Heat-releasable. Peerless Roll Leaf Co. 24,539; Nov. 13.

CLASS 12.

Brick. Acme Brick Company. 249,533; Nov. 13.
Insulating material containing cork. Armstrong Cork Company. 72,785; renewed Feb. 23, 1929.

CLASS 13.

Hinges, straps, corner irons, etc. McKinney Manufacturing Company. 249,498; Nov. 13; Serial No. 267,310; published Sept. 4, 1928.
Spray devices. Interstate Rubber Company. 249,515; Nov. 13; Serial No. 267,048; published Sept. 4, 1928.

CLASS 14.

Babbitt metal. J. W. Burge. 249,415; Nov. 13; Serial No. 263,947; published Aug. 28, 1928.
Steels. Cyclops Steel Company. 249,420; Nov. 13; Serial No. 265,143; published Aug. 28, 1928.
Steels, Chromium-tungsten die. Cyclops Steel Company. 249,427; Nov. 13; Serial No. 265,146; published Aug. 28, 1928.
Steels, Chromium-tungsten die. Cyclops Steel Company. 249,428; Nov. 13; Serial No. 265,144; published Aug. 28, 1928.

CLASS 15.

Candles. Tiffany & Company. 249,508; Nov. 13; Serial No. 267,157; published Aug. 28, 1928.
Petroleum products. Richfield Oil Company of California. 249,454; Nov. 13; Serial No. 267,804; published Aug. 28, 1928.

CLASS 16.

Lacquer, paint enamels, primers, etc. Atlantic Chemical Company. 249,269; Nov. 13; Serial No. 268,138; published Aug. 28, 1928.
Oils for artists' paints, colors, and varnishes. Flügger & Boecking. 32,146; renewed Nov. 8, 1928.
Paint, Enamel. Frank W. Dunnel Co. 249,279; Nov. 13; Serial No. 266,796; published Aug. 28, 1928.
Paint, Flat-finish. Smith-Alsop Paint and Varnish Company. 249,362; Nov. 13; Serial No. 269,328; published Aug. 28, 1928.
Paint, Floor. A. Burdsal Company. 72,852; renewed Mar. 2, 1929.
Paint remover. Rayco Paint Company. 249,282; Nov. 13; Serial No. 266,751; published Aug. 21, 1928.
Polish. Laboratory Chemicals, Inc. 249,514; Nov. 13; Serial No. 267,063; published Aug. 28, 1928.

CLASS 17.

Cigars. H. Fendrich Incorporated. 73,136; renewed Mar. 16, 1929.
Cigars. M. Green. 249,494; Nov. 13; Serial No. 267,359; published Aug. 28, 1928.
Cigars and cigarettes. Savarins, Inc. 249,254; Nov. 13; Serial No. 266,050; published Sept. 4, 1928.
Tobacco. John Cotton Limited. 249,294; Nov. 13; Serial No. 252,471; published Sept. 4, 1928.

CLASS 19.

Truck bolsters, side frames, and spring planks, Railway. Buckeye Steel Castings Company. 242,355; Nov. 19; Serial No. 269,222; published Sept. 4, 1928.

CLASS 20.

Linoleum and oilcloth floor covering, etc. Bon A Fide Products Corporation. 249,384; Nov. 13; Serial No. 259,893; published Sept. 4, 1928.

CLASS 21.

Conduit fittings, Electric. Fairmount Electric and Manufacturing Company. 72,865; renewed Mar. 2, 1929.
Electrical apparatus and machines. Chicago Pneumatic Tool Company. 249,258; Nov. 13; Serial No. 268,481; published Aug. 28, 1928.
Lamps, candelabra and candlesticks, etc., Electric. Tiffany & Company. 249,511; Nov. 13; Serial No. 267,152; published Aug. 28, 1928.
Lamps, Combination vehicle stop and tail. Indiana Lamp Corporation. 249,395; Nov. 13; Serial No. 268,787; published Aug. 28, 1928.
Radio antennae. Trico Products Corporation. 249,227–8; Nov. 13; Serial Nos. 268,328–9; published Aug. 28, 1928.
Spotlights, Electrical. National Accessories Corporation. 249,379; Nov. 13; Serial No. 259,415; published Aug. 28, 1928.

CLASS 22.

Bait hooks, gut leaders, and trout flies. J. F. Howarth. 249,490; Nov. 13; Serial No. 267,418; published Aug. 28, 1928.
Baseballs, baseball gloves, bicycles, etc. Stern Brothers. 249,261; Nov. 13; Serial No. 268,566; published Aug. 28, 1928.
Baseballs, baseball gloves, scooters, etc. Stern Brothers. 249,259; Nov. 13; Serial No. 269,565; published Aug. 28, 1928.
Cards and chips and cribbage boards, Playing. Tiffany & Company. 249,510; Nov. 13; Serial No. 267,153; published Aug. 28, 1928.
Puzzles and games. E. C. Cusack. 249,248; Nov. 13; Serial No. 266,303; published Aug. 28, 1928.
Top. G. F. Spiel. 249,451; Nov. 13; Serial No. 267,871; published Aug. 28, 1928.

CLASS 23.

Bearings for machinery. Bohn Aluminum & Brass Corporation. 249,460; Nov. 13; Serial No. 264,793; published Sept. 4, 1928.
Drilling machines, Continuous rotary metal-. Davis & Thompson Company. 249,532; Nov. 13; Serial No. 247,782; published Sept. 4, 1928.
Gears and pinions. Boston Gear Works. 249,354; Nov. 13; Serial No. 269,221; published Sept. 4, 1928.
Holders, Blade, etc. J. R. Torrey and B. M. Torrey. 249,378; Nov. 13; Serial No. 259,226; published Sept. 4, 1928.
Knives, scissors, etc. J. A. Henckels. 249,462; Nov. 13; Serial No. 263,002; published Aug. 28, 1928.
Metal-working taps, surface plates, leading screws. Imperial Trust for the Encouragement of Scientific and Industrial Research. 249,524; Nov. 13; Serial No. 235,777; published Aug. 28, 1928.
Screw drivers. Tobrin Tool Company, The. 249,340; Nov. 13; Serial No. 269,006; published Sept. 4, 1928.
Sewing machines, felling machines, etc. Isaac Braithwaite & Son, Engineers, Limited. 249,333; Nov. 13; Serial No. 270,009; published Sept. 4, 1928.
Tattooing device. Missouri Agricultural Publishing Company. 249,361; Nov. 13; Serial No. 269,305; published Sept. 4, 1928.

CLASS 24.

Laundry washing machines. O. P. Greenstreet. 249,316; Nov. 13; Serial No. 269,459; published Sept. 4, 1928.

CLASS 25.

Locks and keys. Ford Motor Company. 249,345; Nov. 13; Serial No. 268,596; published Sept. 4, 1928.

CLASS 26.

Blue-printing apparatus. S. L. Lohman. 249,265; Nov. 13; Serial No. 268,045; published Sept. 4, 1928.
Cameras, Photographic. Ansco Photoproducts, Inc. 249,472; Nov. 13; Serial No. 261,094; published Sept. 4, 1928.
Measured quantities of liquid, Apparatus for delivering. Société Carbox. 249,493; Nov. 13; Serial No. 267,394; published Aug. 28, 1928.
Measured quantities of liquid, Apparatus for delivering. Société Hardoll, Etablissements Hariveau, Dolimier et René Porte & Cie. Réunis. 249,492; Nov. 13; Serial No. 267,395; published Aug. 28, 1928.

CLASS 27.

Springs, hair springs, and hands, etc., Watch and clock. E. Geiser, successeur de Charles Robert. 249,251; Nov. 13; Serial No. 266,169; published Aug. 28, 1928.

CLASS 28.

Badges, lapel buttons, cuff links, etc., Fraternity. National Fraternity of Alpha Chi Rho. 249,421; Nov. 13; Serial No. 265,556; published Aug. 28, 1928.
Badges, lapel buttons, cuff links, etc., Fraternity. Phi Mu Fraternity. 249,387; Nov. 13; Serial No. 268,630; published Aug. 28, 1928.
Jewelry, Manufactured. S. Semenoff. 249,388; Nov. 13; Serial No. 268,637; published Aug. 28, 1928.
Key rings, chain fasteners, etc. Louis Stern Company. 249,308; Nov. 13; Serial No. 268,165; published Aug. 28, 1928.
Pins and pendants, Fraternity. Executive Council of the Alpha Delta Phi Fraternity. 249,403; Nov. 13; Serial No. 263,382; published Aug. 28, 1928.
Rings, Finger. S. Wechter Company. 249,411; Nov. 13; Serial No. 263,996; published July 17, 1928.

CLASS 29.

Brooms. George W. Simmons Corporation. 249,232; Nov. 13; Serial No. 268,306; published Aug. 21, 1928.
Brushes, hairbrushes, powder puffs, etc., Clothes. Tiffany & Company. 249,512; Nov. 13; Serial No. 267,095; published Aug. 21, 1928.
Brushes, Powder. United Shoe Machinery Corporation. 249,314; Nov. 13; Serial No. 269,436; published Aug. 28, 1928.
Powder puffs. F. Tetter & Sons. 249,312; Nov. 13; Serial No. 268,326; published Aug. 28, 1928.
Windshield cleaners, Electrically-operated. L. Askam. 249,516; Nov. 13; Serial No. 267,028; published Aug. 21, 1928.

CLASS 32.

Cabinet, drawer, table, etc., Knockdown. Farley & Loetscher Mfg. Co. 249,299; Nov. 13; Serial No. 254,963; published Sept. 4, 1928.



Cabinets for watch glasses. Hammel, Riglander & Co. 73,123; renewed Mar. 16, 1929.
Furniture. Tiffany & Company. 249,509; Nov. 13; Serial No. 267,154; published Sept. 4, 1928.
Furniture, Lawn. Kalamazoo Sled Company. 249,285; Nov. 13; Serial No. 260,733; published Sept. 4, 1928.

CLASS 33.

Glass for timepieces. K. Konishi. 249,422; Nov. 13; Serial No. 265,549; published Sept. 4, 1928.
Glassware. Skinner-Hill Co., Inc. 249,367; Nov. 13; Serial No. 257,124; published Sept. 4, 1928.

CLASS 34.

Furnaces and parts therefor, Gas and oil. Surface Combustion Company. 249,500; Nov. 13; Serial No. 267,219; published Sept. 4, 1928.
Humidifying machines, etc. Midwest Steel & Supply Company. 249,402; Nov. 13; Serial No. 268,107; published Sept. 4, 1928.
Lighting apparatus. Badger Brass Mfg. Co. 73,132; renewed Mar. 16, 1929.
Oil-burning apparatus. Wayne Company. 249,450; Nov. 13; Serial No. 267,878; published Sept. 4, 1928.
Stoves, furnaces, and ranges. Cole Manufacturing Company. 71,865; renewed Dec. 15, 1928.
Ventilating units consisting of fan blower and ducts. G. A. Peterson. 249,430; Nov. 13; Serial No. 265,011; published Sept. 4, 1928.
Warm-air registers, cold-air gratings, etc. Sturdy Manufacturing Co. 249,249; Nov. 13; Serial No. 266,282; published Sept. 4, 1928.

CLASS 35.

Packings. Crandall Packing Company. 32,487; renewed Feb. 7, 1929.
Tires, Solid and pneumatic rubber vehicle. Goodyear Tire & Rubber Company. 72,867; renewed Mar. 2, 1929.

CLASS 36.

Music boxes. Tiffany & Company. 249,505; Nov. 13; Serial 267,162; published Aug. 28, 1928.
Phonograph records, Metallic disc. Speak-O-Phone Incorporated. 249,401; Nov. 13; Serial No. 268,321; published Aug. 28, 1928.

CLASS 37.

Paper for stationery use. Ditto, Incorporated. 249,382; Nov. 13; Serial No. 259,624; published Aug. 28, 1928.
Papers, Glazed or friction-coated. McLaurin-Jones Co. 249,518; Nov. 13; Serial No. 189,367; published June 19, 1928.
Pencils. Bleistift-Fabrik vorm. Johann Faber A.-G. 72,352; renewed Jan. 19, 1929.
Pencils, penholders, rubber erasers, etc. Bleistift-Fabrik vorm. Johann Faber A. G. 71,572; renewed Dec. 1, 1928.

CLASS 38.

Books and visiting cards, etc., Printed. Tiffany & Company. 249,507; Nov. 13; Serial No. 267,159; published Aug. 28, 1928.
Calendars, wall mailing cards, etc., Wall. Brown & Bigelow. 249,433; Nov. 13; Serial No. 264,138; published Aug. 28, 1928.
Cartoons. B. F. Hammond. 249,400; Nov. 13; Serial No. 268,096; published Aug. 28, 1928.
Newspaper articles. Consolidated Press Association. 249,540; Nov. 13.

CLASS 39.

Boots and shoes. C. B. Slater Company. 249,277; Nov. 13; Serial No. 266,893; published Aug. 7, 1928.
Boots and shoes, Leather. G. R. Kinney Co. 249,412; Nov. 13; Serial No. 263,954; published Aug. 21, 1928.
Boots and shoes, rubber overshoes, etc., Rubber. Hood Rubber Company. 249,410; Nov. 13; Serial No. 263,872; published Aug. 21, 1928.
Clothing. Pendleton Woolen Mills. 249,455; Nov. 13; Serial No. 267,790; published Aug. 21, 1928.
Coats and capes, Waterproof. Express Rubber Co. 249,418; Nov. 13; Serial No. 265,834; published Aug. 28, 1928.
Coats, Girls'. E. Lobel. 249,383; Nov. 13; Serial No. 259,859; published July 31, 1928.
Coats, suits, dresses. Goodman Cloak Company. 249,295; Nov. 13; Serial No. 252,771; published Aug. 21, 1928.
Coats, vests, pants, etc. Harry Marks Clothing Company. 249,483; Nov. 13; Serial No. 267,654; published Aug. 21, 1928.
Coats, Women's and misses'. Isidor Weinstein-Coats-Inc. 249,469; Nov. 13; Serial No. 261,850; published Aug. 21, 1928.
Collars. Bohne Bros. & Co. 32,626; renewed Mar. 28, 1929.
Collars for wear. Bryce & Weston Limited. 249,409; Nov. 13; Serial No. 263,748; published Aug. 21, 1928.
Corsets, brassières, and corsetlike garments. Mollie Mayers, Inc. 249,267; Nov. 13; Serial No. 268,108; published Aug. 7, 1928.
Corsets, brassières, etc. Nulife Patents Corporation. 249,456; Nov. 13; Serial No. 267,786; published Aug. 21, 1928.
Cravats and neckties. Cheney Brothers. 249,535; Nov. 13.
Dresses. W. S. Brandt. 249,237; Nov. 13; Serial No. 266,643; published Aug. 28, 1928.
Footwear, Novelty. Groves Shoe Company. 249,250; Nov. 13; Serial No. 266,245; published Aug. 7, 1928.
Frocks and dresses. Sally Frocks, Inc. 249,531; Nov. 13; Serial No. 248,933; published Aug. 21, 1928.
Gloves, Leather. P. Girson. 249,372; Nov. 13; Serial No. 258,708; published Aug. 7, 1928.
Hat linings. National Committee on Correct Style, Inc. 249,284; Nov. 13; Serial No. 260,129; published Aug. 21, 1928.
Hats. Bronston Bros. and Co. 249,484–5; Nov. 13; Serial Nos. 267,629–30; published Aug. 21, 1928.
Hats. Samuel D. Lasdon & Co. Inc. 249,239; Nov. 13; Serial No. 266,546; published July 31, 1928.
Hats. A. Rubin. 249,283; Nov. 13; Serial No. 266,757; published Aug. 21, 1928.
Hats. Superior Hat Co. 249,262; Nov. 13; Serial No. 268,004; published Aug. 7, 1928.
Hats for men and boys. New York Hat Stores, Inc. 249,440; Nov. 13; Serial No. 264,900; published Aug. 21, 1928.
Hats, Ladies'. Jonas Millinery, Inc. 249,443; Nov. 13; Serial No. 267,965; published Aug. 21, 1928.
Hats, Men's. Caplain & Goldman. 249,280; Nov. 13; Serial No. 250,438; published Aug. 7, 1928.
Hats, Men's. Marne Hat Manufacturing Company. 249,465; Nov. 13; Serial No. 262,236; published Aug. 7, 1928.
Hats, Men's felt. F. Berg & Company. 249,426; Nov. 13; Serial No. 265,313; published Aug. 21, 1928.
Hats, Straw. Columbia Hat Manufacturing Co. Inc. 249,289; Nov. 13; Serial No. 250,297; published Aug. 7, 1928.
Helmets, Aviators'. Scully Bros. Inc. 249,281; Nov. 13; Serial No. 266,760; published Aug. 7, 1928.
Hosiery. Munsingwear Corporation. 249,392; Nov. 13; Serial No. 268,744; published Aug. 21, 1928.
Hosiery. Richmond Hosiery Mills. 249,389; Nov. 13; Serial No. 268,704; published Aug. 21, 1928.
Hosiery and underwear. C. & M. Hosiery Mills, Inc. 249,477; Nov. 13; Serial No. 267,746; published Aug. 21, 1928.
Jackets and coats and weatherproof jackets and coats, Sport. S. Liebovitz & Sons, Inc. 249,407–8; Nov. 13; Serial Nos. 263,611–12; published Aug. 21, 1928.
Overcoats and suits. Hero Clothing Mfg. Co. 249,414; Nov. 13; Serial No. 265,964; published Aug. 21, 1928.
Shirts and boys' blouses, Men's and boys'. Elder Mfg. Co. 249,255; Nov. 13; Serial No. 268,431; published Aug. 21, 1928.
Shirts, overalls, pants, etc. Stephens-Hufhines Manufacturing Company. 249,536; Nov. 13.
Shirts, Work. Stuhl-Urban & Company. 249,246–7; Nov. 13; Serial Nos. 266,331–2; published Aug. 21, 1928.
Shoes. Ault-Williamson Shoe Co. 249,452; Nov. 13; Serial No. 267,827; published Aug. 21, 1928.
Shoes. Charles A. Eaton Company. 249,380; Nov. 13; Serial No. 259,484; published Aug. 7, 1928.
Shoes. Florsheim Shoe Company. 249,479; Nov. 13; Serial No. 267,704; published Aug. 21, 1928.
Shoes. A. H. Genting Co. 249,525; Nov. 13; Serial No 233,681; published July 3, 1928.
Shoes. Meyer Brothers. 249,238; Nov. 13; Serial No. 266,549; published Aug. 21, 1928.
Shoes. Norway Shoe Company. 249,416; Nov. 13; Serial No. 265,921; published Aug. 21, 1928.
Shoes and boots, Ladies'. Wohl Shoe Company. 249,305; Nov. 6; Serial No. 256,801; published June 12, 1928.
Shoes and pumps, Leather or cloth top. Menihan Company. 249,475; Nov. 13; Serial No. 261,678; published Aug. 21, 1928.
Shoes, Ladies. C. D. Gibbon & Son. 32,490; renewed Feb. 14, 1929.
Shoes, Leather. Hill Bros. Co. 249,307; Nov. 13; Serial No. 268,156; published Aug. 21, 1928.
Shoes, Leather. A. S. Kreider Shoe Manufacturing Co. 249,467; Nov. 13; Serial No. 262,093; published Aug. 7, 1928.
Shoes, slippers, etc. Juniormode Shoe Corporation. 249,301–2; Nov. 13; Serial Nos. 255,308–9; published Aug. 7, 1928.
Soles, taps, tap or half soles, Leather. Penn Leather Co. 249,371; Nov. 13; Serial No. 258,284; published Aug. 7, 1928.
Stockings, gaiters, heel pads, etc. Shoecraft Shop Inc. 249,413; Nov. 13; Serial No. 265,990; published Aug. 21, 1928.
Suits, Children's cowboy play. R. F. Warren. 249,374; Nov. 13; Serial No. 258,971; published Aug. 21, 1928.
Suits, Men's. Navytone Company. 249,530; Nov. 13; Serial No. 249,368; published Aug. 21, 1928.
Suits, overcoats, hats, hose, etc., Men's. Stern Brothers. 249,420; Nov. 13; Serial No. 265,582; published Aug. 21, 1928.
Suits, overcoats, trousers, etc. Martins, Inc. 249,457; Nov. 13; Serial No. 267,779; published Aug. 21, 1928.
Suspenders, belts, etc. John E. Rose Co. Inc. 249,406; Nov. 13; Serial No. 263,562; published Aug. 21, 1928.
Undergarments, Women's combination. H. W. Gossard Co. 249,499; Nov. 13; Serial No. 267,252; published Aug. 7, 1928.

CLASS 40.

Buttons, braids, tape, and dress shields. Fred Butterfield & Co. 249,435; Nov. 13; Serial No. 264,285; published July 24, 1928.

Buttons, Nonprecious-metal. Universal Button Fastening & Button Company. 249,405; Nov. 13; Serial No. 263,448; published July 24, 1928.

Buttons of nonprecious metal. Patent Button Company. 249,488; Nov. 13; Serial No. 267,507; published Aug. 7, 1928.

Buttons, Pearl. Red Star Mfg. Co. Inc. 249,368; Nov. 13; Serial No. 257,704; published Aug. 21, 1928.

Combs. Mohawk Merchandise Company. 249,513; Nov. 13; Serial No. 267,071; published July 24, 1928.

Elastic webbing. Chesterman-Leeland Company. 249,476; Nov. 13; Serial No. 261,239; published Aug. 7, 1928.

Fasteners with draw strings for undergarments, and shoulder straps, Separable garment. A. B. A. Specialties Company. 249,297; Nov. 13; Serial No. 254,023; published Aug. 21, 1928.

Fur trimmings. J. Goldwasser. 249,436; Nov. 13; Serial No. 264,229; published Aug. 21, 1928.

Hooks and eyes. American Pin Co. 32,033; renewed Oct. 4, 1928.

Laces, Shoe. Janszen Company. 249,458; Nov. 13; Serial No. 267,773; published July 24, 1928.

Medallions. B. Lambert. 249,424; Nov. 13; Serial No. 265,388; published July 31, 1928.

Needles for hand use. Marshall Field & Company. 249,241; Nov. 13; Serial No. 266,366; published July 24, 1928.

Shields, Dress. I. B. Kleinert Rubber Company. 249,502–3; Nov. 13; Serial Nos. 267,199–200; published July 24, 1928.

Shoehorns, buttonhooks, hatpins, etc. Tiffany & Company. 249,506; Nov. 13; Serial No. 267,100; published Aug. 28, 1928.

CLASS 42.

Cotton and linen piece goods. Berth Robert-Gross Inc. 249,353; Nov. 13; Serial No. 269,218; published Sept. 4, 1928.

Cotton piece goods. Weeks, Sawyer & Co. 249,334; Nov. 13; Serial No. 270,103; published Sept. 4, 1928.

Goods for lining, Piece. Hahlo & Solomon, Inc. 249,352; Nov. 13; Serial No. 269,117; published Sept. 4, 1928.

Marquisette. Warwick Mills. 249,337–8; Nov. 13.

Netted woven cord fabrics of cotton. Brighton Mills. 249,287; Nov. 13; Serial No. 260,979; published Sept. 4, 1928.

Rugs, Axminster. Marshall Field & Company. 249,528; Nov. 13; Serial No. 245,970; published Sept. 4, 1928.

Sheetings. Glenwood Cotton Mills. 249,253; Nov. 13; Serial No. 266,084; published Sept. 4, 1928.

Silk piece goods. Arnold Rosenfeld Silk Corporation. 249,496; Nov. 13; Serial No. 267,318; published Sept. 4, 1928.

Silk piece goods. Arnold Rosenfeld Silk Corporation. 249,497; Nov. 13; Serial No. 267,316; published Sept. 4, 1928.

Velveteens, Cotton. A. Louis. 249,399; Nov. 13; Serial No. 268,072; published Sept. 4, 1928.

CLASS 43.

Thread and artificial spinning fibers, Artificial-silk. I. G. Farbenindustrie Aktiengesellshaft. 249,288; Nov. 13; Serial No. 260,992; published Sept. 4, 1928.

Yarn, Spun rayon. Thomas H. Barker's Sons Company. 249,321; Nov. 13; Serial No. 269,572; published Sept. 4, 1928.

CLASS 44.

Absorbent cotton. Auerbach Company. 249,347; Nov. 13; Serial No. 269,078; published Aug. 28, 1928.

Dental modeling compounds. Detroit Dental Manufacturing Co. 249,242; Nov. 13; Serial No. 266,361; published Aug. 21, 1928.

Plastic preparations for making dentures. Dental Manufacturing Company Limited. 249,270; Nov. 13; Serial No. 268,148; published Aug. 28, 1928.

Sanitary napkins. Berkeley Company. 249,257; Nov. 13; Serial 268,479; published Aug. 21, 1928.

Sanitary napkins. The Fair. 249,470; Nov. 13; Serial No. 268,976; published Aug. 28, 1928.

Sanitary napkins and rubber protectors. A. L. Vierra. 249,268; Nov. 13; Serial No. 268,126; published Aug. 28, 1928.

Sanitary napkins, surgical dressings, etc. National Cellulose Corporation. 249,230; Nov. 13; Serial No. 268,382; published Aug. 28, 1928.

Scissors, cuticle scissors, corn razors, etc., Nail. J. A. Henckels. 249,473; Nov. 13; Serial No. 268,982; published Aug. 28, 1928.

CLASS 45.

Beverages. P. De La Montanya. 249,272; Nov. 13; Serial No. 266,980; published Sept. 4, 1928.

Beverages. Dorado Club Beverage Company. 249,350; Nov. 13; Serial No. 269,101; published Sept. 4, 1928.

Beverages. Hekelnkaemper Bros. 249,323; Nov. 13; Serial No. 269,782; published Sept. 4, 1928.

Beverages, Nonalcoholic. A. G. Lyle. 249,235; Nov. 13; Serial No. 266,675; published Aug. 21, 1928.

Extract. J. S. Polefsky. 249,481; Nov. 13; Serial No. 267,666; published Sept. 4, 1928.

Ginger ale. Old Hampshire, Inc. 249,324; Nov. 13; Serial No. 269,908; published Sept. 4, 1928.

CLASS 46.

Apples, Fresh. Yakima Fruit Exchange. 249,332; Nov. 13; Serial No. 247,002; published Sept. 4, 1928.

Candy. W. D. Rose. 249,313; Nov. 13; Serial No. 269,427; published Sept. 4, 1928.

Candy and peanut butter. Mobile Grocery Company. 249,397; Nov. 13; Serial No. 268,876; published Aug. 28, 1928.

Canned and dried fruits. Landauer & Co. 249,517; Nov. 13; Serial No. 267,000; published Sept. 4, 1928.

Canned fish. Aktiebolaget Sveriges Forenade Konservfabriker. 249,486; Nov. 13; Serial No. 267,626; published Sept. 4, 1928.

Canned fish. Sergeant-Paup Company. 249,331; Nov. 13; Serial No. 269,991; published Sept. 4, 1928.

Canned fruits. National Fruit Canning Co. 249,330; Nov. 13; Serial No. 269,972; published Sept. 4, 1928.

Canned fruits and vegetables and apricot butter. Pratt-Low Preserving Company. 249,358–9; Nov. 13; Serial Nos. 269,253–6; published Sept. 4, 1928.

Canned fruits, dried fruits, and canned vegetables. Landauer & Co. 249,271; Nov. 13; Serial No. 266,999; published Sept. 4, 1928.

Canned fruits, vegetables, and berries, egg noodles, rice, etc. Brownell & Field Co. 249,393; Nov. 13; Serial No. 268,767; published Aug. 28, 1928.

Canned grapefruit. Florida Fruit Canners, Inc. 249,236; Nov. 13; Serial No. 266,653; published Sept. 4, 1928.

Canned vegetables. Pacific Trading Co. 249,322; Nov. 13; Serial No. 269,743; published Aug. 28, 1928.

Chicks, ducks, turkeys, and geese, Live baby. Train's Poultry Farm Hatchery, Inc. 249,529; Nov. 13; Serial No. 249,824; published Aug. 21, 1928.

Chocolates. H. D. Foss & Co., Incorporated. 71,639; renewed Dec. 8, 1928.

Coffee. Kroger Grocery & Baking Company, The. 249,300; Nov. 13; Serial No. 255,111; published Sept. 4, 1928.

Condiments, Liquid. Horton Cato Manufacturing Company. 32,297; renewed Dec. 27, 1928.

Eggs, Frozen. Titman Egg Corporation. 249,339; Nov. 13.

Foods. Strohmeyer & Arpe Co. 72,945–6; renewed Mar. 2, 1929.

Foods. Strohmeyer & Arpe Co. 73,116; renewed Mar. 16, 1929.

Fruits, Fresh. Earl Fruit Company. 249,356; Nov. 13; Serial No. 269,226; published Sept. 4, 1928.

Fruits, Fresh citrus. Irvine Valencia Growers. 249,335; Nov. 13; Serial No. 270,128; published Sept. 4, 1928.

Fruits, Fresh citrus and deciduous. Mutual Orange Distributors. 249,336; Nov. 13; Serial No. 270,130; published Sept. 4, 1928.

Fudge and nougat. Golden Nugget Sweets. 249,519; Nov. 13; Serial No. 239,928; published Sept. 4, 1928.

Grapes, Fresh. C. Glaze. 249,328; Nov. 13; Serial No. 269,953; published Sept. 4, 1928.

Middlings. Bernet, Craft & Kauffman Milling Company. 249,386; Nov. 13; Serial No. 252,816; published May 15, 1928.

Mustard. J. J. Kern. 249,377; Nov. 13; Serial No. 259,212; published Aug. 28, 1928.

Mustard, Prepared. A. Biagi. 249,534; Nov. 13.

Noodles, spaghetti, vermicelli, etc. Pfaffman Egg Noodle Company. 249,310; Nov. 13; Serial No. 268,244; published Aug. 28, 1928.

Oranges, lemons, and grapefruit, Fresh. Klink Citrus Association. 249,329; Nov. 13; Serial No. 269,961; published Sept. 4, 1928.

Peanut butter and flavoring extracts. Maury-Cole Company. 249,341; Nov. 13.

Pears, Fresh. Szobel & Day, Inc. 249,317; Nov. 13; Serial No. 269,486; published Sept. 4, 1928.

Pectin, Liquid citrus. Alexander Molasses Company. 249,327; Nov. 13; Serial No. 269,930; published Sept. 4, 1928.

Pepper, savory, and Worcestershire sauce, etc. Hirsch Bros. & Co. Inc. 249,296; Nov. 13; Serial No. 253,754; published Feb. 14, 1928.

Pimientos. F. Martin. 249,522; Nov. 13; Serial No. 243,615; published Sept. 4, 1928.

Pineapple and pineapple confections, Glacé. Mid-Pacific Candy Company, Limited. 249,357; Nov. 13; Serial No. 269,245; published Sept. 4, 1928.

Pop corn raw and popped and pop-corn seasoning. W. E. Hugo. 249,264; Nov. 13; Serial No. 268,040; published Aug. 28, 1928.

Potato flakes, dill relish, vegetable relish, sweet and sour pickles, etc. Kerr Products Company. 249,521; Nov. 13; Serial No. 242,297; published Mar. 8, 1927.

Sandwich filling. Mrs. H. S. La Duke. 249,537; Nov. 13.

Sweetening compound and a compound of chocolate and malt. Kasko Products Company. 249,341; Nov. 13; Serial No. 263,091; published Aug. 28, 1928.

Syrup, Malt. J. Goldsmith & Sons. 249,434; Nov. 13; Serial No. 264,372; published Aug. 28, 1928.

Syrup, Malt. L. Morris. 249,266; Nov. 13; Serial No. 268,053; published Aug. 28, 1928.



Tomato catsup and pickles. J. Weller Company. 249,346; Nov. 13; Serial No. 269,060; published Aug. 28, 1928.

Wine. Val Bros. 249,252; Nov. 13; Serial No. 266,158; published Aug. 28, 1928.

CLASS 47.

Wines. P. De La Montanya. 249,349; Nov. 13; Serial No. 269,100; published Sept. 4, 1928.

CLASS 48.

Beer, Bottled. M. K. Goetz Brewing Co. 32,494; renewed Feb. 14, 1929.

CLASS 50.

Bottle caps, Milk-. Mid-West Bottle Cap Co. 249,543; Nov. 13.

Markers, Road. National Road Marker, Inc. 249,542; Nov. 13.

# ALPHABETICAL LIST OF LABELS.

Addo Practice and Puzzle. For a Game. Los Angeles Paper Box Factory. 34,034; Nov. 13.

Cough and Throat Lozenges. For Cough and Throat Lozenges. Organ-Iron Laboratories. 34,937; Nov. 13.

Cyclone Twister. For Cigars. M. L. Richards. 34,944; Nov. 13.

Diner's Delight. For Potatoes. N. E. Greenberger. 34,927; Nov. 13.

Dixie Dry. For Ginger Ale. Tampa Tripure Water Corporation. 34,945; Nov. 13.

Dromedary Grapefruit Juice. For Grapefruit Juice. Hills Brothers Company. 34,930; Nov. 13.

Fancia. For Oranges. Rialto Orange Co. 34,942; Nov. 13.

Fontana's. For Spaghetti. Fontana Food Products Company. 34,924; Nov. 13.

Frutas Escogidas. For Canned Mangoes. Clement Jacques y Cia. 34,922; Nov. 13.

Gabal-Bitter. For Bitters. Gabal Sales Corporation. 34,926; Nov. 13.

Hi-Gloss. For Lacquer Auto Enamel. J. W. Hammond. 34,929; Nov. 13.

Hoosier Corn Starch. For Cornstarch. Piel Bros. Starch Co. 34,939; Nov. 13.

Isuan The Spirit of Joy. For Ginger Ale. Isuan Corporation. 34,931; Nov. 13.

Jell-E-Seal. For Paraffine Cubes. National Paraffine Products Company. 34,936; Nov. 13.

Juarez Whiskey Straight America. For Whiskey. D. M. Distillery Company, S. A. 34,923; Nov. 13.

Kolb's Oven-Jem Bread. For Bread. Kolb's Bakery. 34,933; Nov. 13.

La Reina. For Oranges. Rialto Orange Co. 34,940; Nov. 13.

New Life. For Malt Syrup. United States Brewing Co. of Chicago. 34,946; Nov. 13.

Pax—The Crystallized Soap. For Soap Product. G. H. Packwood Manufacturing Co. 34,938; Nov. 13.

Raxmonia. For a Powder Having Cleansing, Bleaching, Disinfecting, and Antiseptic Products. E. Mather. 34,935; Nov. 13.

Red Skin. For Oranges. Rialto Orange Co. 34,943; Nov. 13.

Rextana. For Rugs. Beattie Manufacturing Company. 34,921; Nov. 13.

Starjax. For Jack Sets. Grey Iron Casting Company. 34,928; Nov. 13.

Two-In-One. For Malt Extract. M. A. Keenan & Sons. 34,932; Nov. 13.

Wells 100% Pure Grapefruit Juice. For Grapefruit Juice. Wells Citrus Products, Inc. 34,948; Nov. 13.

Wells 100% Pure Orange Juice. For Orange Juice. Wells Citrus Products, Inc. 34,947; Nov. 13.

Western Queen. For Oranges. Rialto Orange Co. 34,941; Nov. 13.

Yankee Girl. For Canned Tomatoes. Isaac Frankel's Sons. 34,925; Nov. 13.

# ALPHABETICAL LIST OF PRINTS.

Authorized Service Camp Supports. For Camp Physiological Supports. S. H. Camp & Co. 11,324; Nov. 13.

Camel Dates. For Dates. Hills Brothers Company. 11,328; Nov. 13.

Camel Dates They're Seeded. For Dates. Hills Brothers Company. 11,327; Nov. 13.

El Producto. For Cigars. G. H. P. Cigar Co. 11,326; Nov. 13.

For Colds Ozo Mist. For Preparation for the Relief of Colds, Hay Fever, Catarrh, and Asthma. Adson Chemical Co. Inc. 11,323; Nov. 13.

Howlett Wall Safe. For Wall Safes. C. A. S. Howlett. 11,329; Nov. 13.

Natco Solves Your "Hole" Problem. For Metal Drilling and Tapping Machines. National Automatic Tool Company. 11,330; Nov. 13.

Not this Season's Car Perhaps—But this Season's Colors. For Du Pont Duco. E. I. du Pont de Nemours & Co. 11,325; Nov. 13.

Purple Cow Sandwich Shoppe. For Foodstuffs Particularly Bakery Products, Sandwiches, Coffee, and Tea. Purple Cow Sandwich Shoppe, Inc. 11,331; Nov. 13.

Select this Wall Covering of Enduring Charm. For Oilcloth Used for Wall Covering, Decorative and Other Uses and Purposes. Standard Textile Products Company. 11,332; Nov. 13.

Standard Unbreakable Watch Crystals, Inc. For Unbreakable Watch Crystals. Standard Unbreakable Watch Crystals Inc. 11,333; Nov. 13.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Panel-board box. 1,691,422; Nov. 13.

Accountograph Company, The. (See Schinke, Edward C., assignor.)

Ackerman, Ernest W., and G. C. Nicholson, assignors to Hydro-Check Corporation, Monroe, Mich. Rebound-device relief valve. 1,691,876; Nov. 13.

Adams, Arthur J., Bay City, Mich., assignor to W. S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Chair. 1,691,033; Nov. 13.

Adams, Arthur J., Bay City, Mich., assignor to W. S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Adjustable back rest for chairs. 1,691,034; Nov. 13.

Adams, Arthur J., Bay City, Mich., assignor to W. S. Ferris, Elkhart, Ind., trading as Domore Chair Company. Swiveling chair. 1,691,035; Nov. 13.

Adams, Arthur J., Bay City, Mich., assignor to W. S. Ferris, trading as Domore Chair Company, Elkhart, Ind. Footrest for chairs. 1,691,036; Nov. 13.

Adams, Harry A., assignor to North East Electric Company, Rochester, N. Y. Die-casting mold. 1,691,220; Nov. 13.

Adams, Walter L., and C. T. Pflueger, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Fishing reel. 1,691,622; Nov. 13.

Aeolian Company, The. (See Cheek, Tolbert F., assignor.)

Aeromarine Starter Company. (See Chilton, Roland, assignor.)

Agatz, Heinz, Berlin-Friedenau, Germany. Electric cigar and pipe lighter with exchangeable incandescent body. 1,691,836; Nov. 13.

Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)

Aktiengesellschaft Brown, Boveri & Cie. (See Frey, Karl, assignor.)

Alden Manufacturing Company. (See Alden, Milton, assignor.)

Alden, Milton, Springfield, assignor to Alden Manufacturing Company, Brockton, Mass. Vacuum-tube socket. 1,691,877; Nov. 13.

Alexanderson, Ernst F. W., and A. H. Mittag, Schenectady, N. Y., assignors to General Electric Company. Circuit-control apparatus. 1,691,423; Nov. 13.

All Metal Products Company. (See Schmidt, William F., assignor.)

Allen, George W., assignor to B. F. Sturtevant Company, Hyde Park, Mass. Foundation method. 1,691,037; Nov. 13.

Alley, Charles R., Washington, D. C. Lock and latch. 1,691,750; Nov. 13.

Alterson, Louis, New York, N. Y. Fastening device. 1,691,453; Nov. 13.

Alvarado, Romulo, Jamaica, N. Y. Floor-washing machine. 1,691,263; Nov. 13.

Ambruster, Howard W., Westfield, N. J. Manufacture of insecticides. 1,691,454; Nov. 13.

American Blower Corporation. (See Watkins, James A., assignor.)

American Cable Company. (See Conner, Edward A., assignor.)

American Can Company. (See Freundt, Louis J., assignor.)

American Can Company. (See Hothersall, John M., assignor.)

American Can Company. (See Miller, George F., assignor.)

American Can Company. (See Reid, George C., assignor.)

American Hammered Piston Ring Company, The. (See Morton, Allen W., assignor.)

American La France and Foamite Corporation. (See Epps, F. A., Boniface, and Witter, assignors.)

American Laundry Machinery Company, The. (See Benjamin, Dana H., assignor.)

American Laundry Machinery Company, The. (See Otis, C. M., and Couch, assignors.)

American Multigraph Company, The. (See Osborn, Henry C., assignor.)

American Safety Navigation Company, The. (See Lyda, Arthur W., assignor.)

American Telephone and Telegraph Company. (See Clark, A. B., Nyquist, and Gannett, assignors.)

American Telephone and Telegraph Company. (See Crisson, George, assignor.)

American Telephone and Telegraph Company. (See Thompson, Elmer O., assignor.)

American Type Founders Company. (See Kelly, William M., assignor.)

Ames, Adelbert, jr., Hanover, N. H. Image-modifying apparatus for photography. 1,691,366; Nov. 13.

Anderson, Charles O., Omaha, Nebr. Automatic brake-adjusting mechanism. 1,691,325; Nov. 13.

Anderson Company, The. (See Rivanov, Felix, assignor.)

Anderson, John C., Keyport, N. J. Wovenwire fabric and making it. 1,691,507; Nov. 13.

Anderson, Maurice, Chicago, Ill. Pneumatic-tube carrier. 1,691,038; Nov. 13.

Anderson, Robert A., Montclair, assignor to Gamon Meter Company, Newark, N. J. Gear train for water meters. 1,691,039; Nov. 13.

Anderson, Robert J., Sewickley, Pa., assignor to National Fireworks, Inc. Float light. 1,691,508; Nov. 13.

Anderson, Roland G., Morris Cove, Conn., assignor, by mesne assignments, to Wellman Company, Medford, Mass. Blank-cutting machine. 1,691,795; Nov. 13.

Anderson, Roland G., assignor to L. Candee and Company, New Haven, Conn. Blank-cutting machine. 1,691,796; Nov. 13.

Andress, Frank J., Cincinnati, Ohio, assignor, by mesne assignments, to The Brownie Corporation, New York, N. Y. Preserving beverages. 1,691,538; Nov. 13.

Armbruster, Arthur L., and C. W. Madison, Seattle, Wash. Siphon attachment. 1,691,695; Nov. 13.

Arthur, Harry R., assignor to The Edwin F. Guth Company, St. Louis, Mo. Globe for lighting fixtures. Des. 76,846; Nov. 13.

Ash, Charles F., jr., Valley Station, Ky. Wrench. 1,691,326; Nov. 13.

Ashworth, Percy B., Cam, assignor to R. A. Lister & Company, Limited, Kursley, Gloucestershire, England. Tank for inflammable liquids. 1,691,509; Nov. 13.

Aune, Lenuie O. (See Johnson, H., and Aune.)

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Terminal for bushings. 1,691,327; Nov. 13.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Terminal for insulator bushings. 1,691,328; Nov. 13.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. High-tension installation. 1,691,329; Nov. 13.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulator. 1,691,330; Nov. 13.

Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Insulated control. 1,691,751; Nov. 13.

Automatic Electric Inc. (See Crocker, Thomas F., assignor.)

Automatic Electric, Inc. (See Richardson, R. G., and Nelson, assignors.)

Automatic Electric Inc. (See Saville, Willie, assignor.)

Automatic Electric Inc. (See Sengebusch, Hans, assignor.)

Auto Loading Device Manufacturing Company. (See Federman, George C., assignor.)

Ayres, Eugene E., jr., Swarthmore, and E. H. Haabestad, assignors to B. A. S. Company, Philadelphia, Pa. Gel and producing the same. 1,691,424; Nov. 13.

Ayres, Eugene E., jr., Swarthmore, and E. H. Haabestad, assignors to B. A. S. Company, Philadelphia, Pa. Esters produced from organic halides and producing the same. 1,691,425; Nov. 13.

Ayres, Eugene E., jr., Swarthmore, and E. H. Haabestad, assignors to B. A. S. Company, Philadelphia, Pa. Hydrolysis of ester-forming compounds. 1,691,426; Nov. 13.

Axelson, Fred, Northome, Minn. Car-door latch. 1,691,028; Nov. 13.

B. A. S. Company. (See Ayres, E. E. jr., and Haabestad, assignors.)

Bache, Edmund, assignor to Waldorf Paper Products Company, St. Paul, Minn. Making waterproof paperboard. 1,691,752; Nov. 13.

Badger, Arthur C., Newton, Mass. Expansion joint with regulating means. 1,691,040; Nov. 13.

Badger, Arthur C., Newton, Mass. Fire extinguisher. 1,691,041; Nov. 13.

Badger Rubber Works, The. (See Holm, Sigurd, assignor.)

Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Rotary hearth furnace. 1,691,367; Nov. 13.

Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Car-bottom furnace-hearth seal. 1,691,368; Nov. 13.

Baker, John F., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,691,369; Nov. 13.

Baker, John S. (See Folds, G. R., and Baker.)

Baker, Linnaeus E., assignor to Wayne Company, Fort Wayne, Ind. Visible dispensing apparatus. 1,691,539; Nov. 13.

Baldwin, Elnora E., Denver, Colo. Marcel hair waver. Re17,129; Nov. 13.

Balke, Clarence W., Highland Park, assignor to Fansteel Products Company, Inc., North Chicago, Ill. Obtaining vacuums. 1,691,177; Nov. 13.

Ball, Charles A. (See Peek, Clifford F., assignor.)

Balle, Gerhard. (See Daimler, K., Just, Balle, and Fuchs.)

Bandur, Adolph F., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conductor for the transmission of electrical energy and producing the same. 1,691,029; Nov. 13.

Barnard, Arthur W., Newton Center, assignor to Colonial Scale Company, Boston, Mass. Coin-controlled machine. 1,691,631; Nov. 13.

Barrett, Albert L., Dorchester, assignor to Standard Thermometer Company, Roxbury, Mass. Odometer. 1,691,510; Nov. 13.

Barrows, Allan S., Los Angeles, Calif., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Door. 1,691,370; Nov. 13.

Barthélemy, Henri, assignor to Société Industrielle des Matieres Plastiques, Paris, France. Manufacture of products of condensation of urea and formaldehyde and the products thus obtained. 1,691,427; Nov. 13.

Barthels Manufacturing Company. (See Uellendhal, Arthur W., assignor.)

Barton, Francis M., Chicago, Ill. Rod support. 1,691,331; Nov. 13.

Bartow, George A., Flushing, N. Y. Level. 1,691,632; Nov. 13.

Basler, Louis A., Hartford, Wis. Tractor hitch. 1,691,560; Nov. 13.

Bassick Company, The. (See Herold, Walter F., assignor.)

Bates, Albert J., jr., Chicago, Ill., assignor to Bates Expanded Steel Truss Co., East Chicago, Ind. Work-feeding mechanism for shearing machines. 1,691,264; Nov. 13.

Bates, Emer D., Pasadena, Calif. Carnival ticket. 1,691,455; Nov. 13.

Bates Expanded Steel Truss Co. (See Bates, Albert J., jr., assignor.)

Bates, John S., Bathurst, New Brunswick, Canada. Making chemical pulp. 1,691,511; Nov. 13.

Bath, John, Worcester, Mass. Work-driving device. 1,691,144; Nov. 13.

Baum, Frank G., San Francisco, Calif. Dynamo-cooling system. 1,691,696; Nov. 13.

Brum, Isaac A., Chicago, Ill. Frame construction. 1,691,371; Nov. 13.

Bausch and Lomb Optical Company. (See Welsh, James W., assignor.)

Baytha, Benjamin F., et al. (See Hall, Judson, assignor.)

Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Pneumatic tool. 1,691,372; Nov. 13.

Beall, William L., Chattanooga, Tenn., assignor to International Harvester Company, Chicago, Ill. Moldboard. 1,691,561; Nov. 13.

Beaman, George B., assignor to Fort Wayne Corrugated Paper Company, Fort Wayne, Ind. Insulating shipping container. 1,691,178; Nov. 13.

Beattie, David, assignor to Railway and Industrial Engineering Company, Greensburg, Pa. High-tension switch mechanism. 1,691,837; Nov. 13.

Beck, John L., Baltimore, Md. Sign. 1,691,456; Nov. 13.

Bedford, Emil. (See King, F. A., and Bedford.)

Beers, Royce L., Detroit, Mich., assignor, by mesne assignments, to Riley Stoker Corporation, Worcester, Mass. Underfeed stoker. 1,691,373; Nov. 13.

Behrens, Walter A., Hollis, N. Y. Paste-tube holder. 1,691,457; Nov. 13.

Beler, Adolf, deceased, Pittsburgh, Pa.; E. Beler, executrix. Thermostatic valve. 1,691,908; Nov. 13.

Beler, Elizabeth, executrix. (See Beler, Adolf.)

Bell, Daniel, Chicago, Ill., assignor to Invincible Laundry Equipment Co. Clothes drier. 1,691,042; Nov. 13.

Bell, Herbert A., et al. (See Hall, Judson, assignor.)

Bell Telephone Laboratories, Incorporated. (See Whiting, Donald F., assignor.)

Bellanca, Giuseppe M., Passaic, N. J. Landing gear for airplanes. 1,691,105; Nov. 13.

Bemis Bros. Bag Company. (See Morrill, P. E., and Pierce, assignors.)

Bendix Brake Company. (See Dodge, Adiel Y., assignor.)

Bendix Corporation. (See Perrot, Henri, assignor.)

Benedicks, Carl, Stockholm, Sweden. Treating liquids. 1,691,458; Nov. 13.

Benham, Edgar M., and W. T., Norwood, Ohio, assignors to The Mosler Lock Company, Covington, Ky. Protection device for tumbler locks. 1,691,030; Nov. 13.

Benham, William T. (See Benham, Edgar M. and W. T.)

Benjamin, Dana H., Cleveland Heights, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Neckband and attached-collar ironing machine. 1,691,106; Nov. 13.

Bentley, Joseph, assignor of one-half to E. Pierson, Sioux Lookout, New Ontario, Ontario, Canada. Valve-operating means. 1,691,866; Nov. 13.

Benway, Howard E., Wichita, Kans. Straightedge. 1,691,459; Nov. 13.

Berge, Rasmus, assignor to A. Gresvig, Oslo, Norway. Fastening device for adjustable ski ears. 1,691,512; Nov. 13.

Bergstrom, Carl P., and V. A. Foisy, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Cloth-roll support. 1,691,145; Nov. 13.

Berle, Helge A., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Control mechanism for concrete-mixing apparatus. 1,691,031; Nov. 13.

Bernhard, Rudolf, Bochum, and W. Demann, Cologne, Germany. Hydrogenizing tar oil. 1,691,221; Nov. 13.

Berry, George W., deceased, Kane, Pa., by The U. S. Hoist & Body Company, assignee, Youngstown, Ohio. Tilting mechanism for dumping bodies. Re17,130; Nov. 13.

Berthold, Hermann, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Manufacture of aminoanthraquinones. 1,691,428; Nov. 13.

Bertram, Bellon, assignor of one-half to W. E. Huntley, Sault Ste.-Marie, Mich. Folding boat and trailer therefor. 1,691,633; Nov. 13.

Bethlehem Steel Company. (See West, Arthur J., assignor.)

Betts, Isaac S., assignor to Household Guide Corporation, New York, N. Y. Cover for publications. Des. 76,847; Nov. 13.

Betz, Charles, St. Louis, Mo. Material-fastening device. 1,691,179; Nov. 13.

Beuc, Jacob, St. Louis, Mo. Brace rod for casement windows. 1,691,332; Nov. 13.

Biddle, Arthur, Trenton, N. J., assignor to United Products Corporation of America. Composition of gum chicle, rubber, and an aqueous colloid. 1,691,460; Nov. 13.

Bienvenu, Frank A., assignor, by mesne assignments, to Catelli Macaroni Products Corporation Limited, Montreal, Quebec, Canada. Workstand. 1,691,634; Nov. 13.

Billig, Fred W. (See Sparks, W., Schofield, Johnson, and Billig.)

Bilney, Alwyn, A. H. (See Cooper, A. J., and Bilney.)

Binder, Harry, assignor to Luxor Electrical Fixture Corp., Brooklyn, N. Y. Combined strap and shield for a lighting fixture. Des. 76,848; Nov. 13.

Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Painting apparatus. 1,691,374; Nov. 13.

Birkenmaier, Theodore, assignor to W. N. Matthews Corporation, St. Louis, Mo. Auger. 1,691,540; Nov. 13.

Bishop, Ezra F., assignor of one-half to R. W. Dimock, Oakland, Calif. Vending show case. 1,691,461; Nov. 13.

Bissell, Richard E., Cleveland Heights, assignor to Thompson Products, Incorporated, Cleveland, Ohio. Apparatus for electrically heating metal parts. 1,691,562; Nov. 13.

Bittner, William, Brooklyn, N. Y. Sheet-metal-bending machine. 1,691,032; Nov. 13.

Black, Lester C., Los Angeles, Calif. Well-drilling tool. 1,691,623; Nov. 13.

Blackburn, Guy W., Elgin, Ill. Antiglare device. 1,691,107; Nov. 13.

Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Metal working. 1,691,878; Nov. 13.

Blakeslee, John R., Cleveland, assignor to The Ajax Manufacturing Company, Euclid, Ohio. Forging mechanism. 1,691,879; Nov. 13.

Blaw-Knox Company. (See Shipman, William P., assignor.)

Blincow, Joseph E., Wolverhampton, England. Barrel, drum, cask, or the like. 1,691,753; Nov. 13.

Bloom, Samuel S., New York, N. Y. Campaign button or the like. Des. 76,851; Nov. 13.

Blount, Harry, Oak Park, Ill., asisgnor to Western Electric Company, Incorporated, New York, N. Y. Wire-drawing-die guard. 1,691,043; Nov. 13.

Boden, George, and G. A. King, assignors to Scovill Manufacturing Company, Waterbury, Conn. Hinged pin fastener. 1,691,880; Nov. 13.

Boe, Hans M., assignor to Boe Manufacturing Company, Minneapolis, Minn. Oil-display device. 1,691,333; Nov. 13.

Boe Manufacturing Company. (See Boe, Hans M., assignor.)

Boggs, Guy E., Kaufman, Tex. Cotton-picking machine. 1,691,146; Nov. 13.

Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,691,375; Nov. 13.

Böhm, Otto, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Speed-control means for high-frequency generators. 1,691,222; Nov. 13.

Bommer, Emil, Brooklyn, N. Y. Spring hinge. 1,691,697; Nov. 13.

Boniface, Addison O. (See Epps, F. A., Boniface, and Witter.)

Borge, John, Bellport, N. Y. Refuse burner and water heater. 1,691,462; Nov. 13.





Boshart, Charles R., Lowville, N. Y. Animal tag. 1,691,838; Nov. 13.

Boston Machine Works Company. (See Osgood, Walter P., assignor.)

Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet. Des. 76,852; Nov. 13.

Bowman, Glenn F. (See Vogt, Clarence C., assignor.)

Boynton, Stanley E., Rochester, N. Y., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Shaping machine for irregular forms. 1,691,429; Nov. 13.

Brace, Porter H. (See Harrington, G. F., and Brace.)

Braden, Marshall H., assignor to The Nu-Way Corporation, Rock Island, Ill. Hot-water heater. 1,691,334; Nov. 13.

Braun, Philip N., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Multiple-pressing machine. 1,691,635; Nov. 13.

Breidenbach, Henry C., Dayton, Ohio. Veneer-log-scoring mechanism. 1,691,897; Nov. 13.

Breisig, Albert, Vienna, Austria. Apparatus for producing gas and coke in alternately-working water-gas generators. 1,691,636; Nov. 13.

Breslauer, Joseph, and E. de Luserna, assignors to Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Rendering calcium cyanamide free from dust. 1,691,044; Nov. 13.

Brewer, Hugh R., Wichita, Kans. Friction means for window-shade rollers. 1,691,463; Nov. 13.

Brimm, Daniel J., jr., West Hempstead, N. Y., assignor to Ireland Aircraft Inc. Stabilizer-adjusting mechanism. 1,691,376; Nov. 13.

Brockway, Carl P., assignor to Industrial Research Corporation, Toledo, Ohio. Power tire pump. 1,691,108; Nov. 13.

Broido, Benjamin N., assignor to The Superheater Company, New York, N. Y. Separately-fired superheater. 1,691,698; Nov. 13.

Brooks, George W., Topeka, Kans. Nailing insert. 1,691,265; Nov. 13.

Brooks, Horace I., and M. D. Norman, Dallas, Tex. Spring lubricator. 1,691,223; Nov. 13.

Brown, Charles A. (See Davol, George K., assignor.)

Brown Company. (See Burke, E., and Ives, assignors.)

Brown Company. (See Schur, Milton O., assignor.)

Brown Company. (See Sherman, John C., assignor.)

Brown Company. (See Van Arsdel, Wallace B., assignor.)

Brown, David, assignor to David Brown & Sons, Limited, Lockwood, Huddersfield, England. Centrifugal machine for casting metal. 1,691,464; Nov. 13.

Brown, David, & Sons, Limited. (See Brown, David, assignor.)

Brown, E. C., Company, The. (See Waters, Gilbert C., jr., assignor.)

Browne Corporation, The. (See Andress, Frank J., assignor.)

Brush, Charles F., jr., Cleveland, Ohio, and R. D. Fay, Nahant, Mass., assignors to The Brush Laboratories Company, Cleveland, Ohio. Measuring the rate of mass flow and the temperature of fluids and apparatus therefor. 1,691,600; Nov. 13.

Brush Laboratories Company, The. (See Brush, C. F., jr., and Fay, assignors.)

Buchholz, Alfred R. (See Mueller, T. G., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)

Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)

Budd Wheel Company. (See Ludwick, Herbert V., assignor.)

Budd Wheel Company. (See Nelson, Emil A., assignor.)

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 76,849; Nov. 13.

Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 76,850; Nov. 13.

Burger, Frederick W. (See Mogford, E. C., and Burger.)

Burger, Leopold F., Riverside, assignor to International Harvester Company, Chicago, Ill. Powder-dusting machine. 1,691,563; Nov. 13.

Burke, Edmund, and C. Q. Ives, Portland, Me., assignors to Brown Company, Berlin, N. H. Device for cutting tubes. 1,691,045; Nov. 13.

Burkett, Ira E., Macon, Ga. Loading and dumping device. 1,691,513; Nov. 13.

Burkhardt, Conrad C. C., and E. O. Elliott, Philadelphia, Pa. Locomotive-cab deck. 1,691,797; Nov. 13.

Burley, Thomas, Seattle, Wash. Fireplace heating system. 1,691,465; Nov. 13.

Burns, Charles S., assignor of one-half to F. Kay, Port Arthur, Tex. Filter. 1,691,867; Nov. 13.

Burtner, Jacob H., Boonsboro, Md. Grain drill. 1,691,466; Nov. 13.

Busacker, Emil A., Milwaukee, Wis. Garage-door holder. 1,691,754; Nov. 13.

Busch, Charles H., assignor to Simmons Company, Kenosha, Wis. Furniture. 1,691,624; Nov. 13.

Butcher, Charles A., Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic station. 1,691,377; Nov. 13.

Butler, David L., Blackfoot, Idaho. Ball cock. 1,691,224; Nov. 13.

Buttner, Henry F., Kellogg, Idaho. Dental plate and plating same. 1,691,755; Nov. 13.

Buxton, Warner R., Longmeadow, Mass. Key case. 1,691,637; Nov. 13.

C & C Engineering Co. Inc. (See Carrey, John O., assignor.)

C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Flum, assignors.

Caesar, Orville S., Chicago, Ill., assignor to Tropic-Aire, Incorporated, Minneapolis, Minn. Heating apparatus for automotive vehicles. Re17,131; Nov. 13.

Caldwell, Edwin, New York, N. Y. Smoker's novelty. 1,691,564; Nov. 13.

Caldwell, Lyle, assignor to The Celite Company, Los Angeles, Calif. Treating liquids. 1,691,266; Nov. 13.

Camm, Sydney. (See Sigrist, F., and Camm.)

Campbell, Donald A. (See Roth, C. C., and Campbell.)

Campbell, George. (See Huenefeld, C. H., and Campbell.)

Campbell, Harry V., Freehold, N. J. Sea wall, jetty, and similar structure. 1,691,335; Nov. 13.

Campbell, Henry. (See Polisena, B., and Campbell.)

Campbell, Sterling H. (See Pietzsch, F. H., and Campbell.)

Campbell, Thomas F., Oklahoma City, Okla. Crown-block apparatus. 1,691,430; Nov. 13.

Campbell, Wallace H., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Mold and making same. 1,691,756; Nov. 13.

Candee, L., & Company. (See Anderson, Roland G., assignor.)

Cardwell, Allen D., Rockville Center, N. Y. Transformer and inductance. 1,691,699; Nov. 13.

Cardwell, Allen D., Rockville Center, N. Y. Variably controlling electrical instruments. 1,691,700; Nov. 13.

Carlson, Edwin E., and L. A. Stead, Chester, Pa. Dyeing yarn. 1,691,701; Nov. 13.

Carlson, Edwin E., and L. A. Stead, Chester, Pa. Apparatus for preparing warp yarn for dyeing. 1,691,702; Nov. 13.

Carlson, Iwan E., Watertown, and L. R. Churchill, Wollaston, Mass. Oil burner. 1,691,541; Nov. 13.

Carney, Joseph D., Chicago, Ill. Sign character and securing means therefor. 1,691,638; Nov. 13.

Carpenter, Frederick P., San Diego, Calif. Vehicle direction signal. 1,691,431; Nov. 13.

Carpenter, Robert F., Cleveland Heights, assignor to The Sanymetal Products Company, Cleveland, Ohio. Forming pressed-metal hinges. 1,691,109; Nov. 13.

Carrey, John O., assignor to C & C Engineering Co. Inc., St. Louis, Mo. Condenser for refrigerating apparatus. 1,691,180; Nov. 13.

Carroll, John G., assignor to Walker Vehicle Co., Chicago, Ill. Vehicle control. 1,691,046; Nov. 13.

Carver, George W., East Orange, N. J. Package handle. 1,691,467; Nov. 13.

Caskey-Dupree Manufacturing Company. (See Schmid, William, assignor.)

Caskin, Langdon, Haverford, Pa. Dishwashing apparatus. 1,691,639; Nov. 13.

Casto, Lloyd V., assignor to Oxford Varnish Corporation, Detroit, Mich. Roll. 1,691,336; Nov. 13.

Catelli Macaroni Products Corporation Limited. (See Bienvenu, Frank A., assignor.)

Celite Company, The. (See Caldwell, Lyle, assignor.)

Chadeloid Chemical Company. (See Lougovoy, Boris N., assignor.)

Charlebois, Francis J., and A. H. Martin, Norwood, N. Y. Stake for vehicle side boards. 1,691,639; Nov. 13.

Chayes Dental Instrument Corporation. (See Chayes, H. E. S., and Jurgensen, assignors.)

Chayes, Herman E. S., and A. P. Jurgensen, assignors to Chayes Dental Instrument Corporation, New York, N. Y. Handpiece. 1,691,047; Nov. 13.

Cheek, Tolbert F., New York, N. Y., assignor to The Aeolian Company. Universal player action. 1,691,640; Nov. 13.

Cheney, Sarah E., Los Angeles, Calif. Alarm apparatus. 1,691,378; Nov. 13.

Chicago Flexible Shaft Company. (See Evans, Frederick G., assignor.)

Chicago Pneumatic Tool Company. (See Dresser, Clarence J., assignor.)

Chilton, Roland, Keyport, N. J., assignor, by mesne assignments, to Aeromarine Starter Company, Inc. Friction transmission. 1,691,625; Nov. 13.

Christ, Andrew, jr., Chicago, Ill. Shipping-cover bag. 1,691,379; Nov. 13.

Churchill, Loren R. (See Carlson, I. E., and Churchill.)

Cinch Manufacturing Corporation. (See Vodicka, John, assignor.)

Cincinnati Grinders Incorporated. (See Helm, Lewis R., assignor.)

Cincinnati Victor Company, The. (See Ryder, Charles D., assignor.)

Clark, Alva B., Brooklyn, N. Y., H. Nyquist, Millburn, N. J., and D. K. Gannett, Jackson Heights, N. Y., assignors to American Telephone and Telegraph Company. Electrical picture-transmitting system. 1,691,147; Nov. 13.

Clark Equipment Company. (See Mogford, E. C., and Burger, assignors.)

Clark, Everett E., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tube-frame bracket. 1,691,148; Nov. 13.

Clark, Rex S., assignor to Norco Mfg. Co., Norco, Calif. Valve seal for revoluble-stem valves. 1,691,542; Nov. 13.

Clark, Wareham G., Escalon, Calif. Closure. 1,691,110; Nov. 13.
Clarke, Alexander F., Pittsburgh, Pa. Guide apparatus for strip-rolling mills. 1,691,703; Nov. 13.
Cleveland Folding Machine Company, The. (See Hitchcock, Reuben, assignor.)
Cleveland Gas Burner & Appliance Company, The. (See Kerr, Harry E., assignor.)
Cleveland Graphite Bronze Company, The. (See Klocke, William H., assignor.)
Clewell, Charles W. (See Clewell, Robert L., and C. W.)
Clewell, Robert L. and C. W., Canton, Ohio; said C. W. Clewell assignor to said Robert L. Clewell. Fish lure. 1,691,225; Nov. 13.
Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing-machine mechanism. 1,691,641; Nov. 13.
Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Pressing machine. 1,691,642; Nov. 13.
Clisson, Albert B., assignor to The Prosperity Company, Inc., Syracuse, N. Y. Spring pad. 1,691,643; Nov. 13.
Clisson Manufacturing Company. (See Clisson, William H., assignor.)
Clisson, William H., Binghamton, assignor to Clisson Manufacturing Company, Incorporated, Syracuse, N. Y. Garment-pressing machine. 1,691,267; Nov. 13.
Coats, Henry B. (See Holmes, A. W., Jaques, and Coats.)
Coats, Henry B., Veedersburg, D. E. Jaques, Thorton, and A. W. Holmes, Veedersburg, Ind. Poultry-pan-cleaning device. 1,691,181; Nov. 13.
Cocozella, Anthony, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel. 1,691,149; Nov. 13.
Cohen, Joseph, Taunton, Mass. Container for a vacuum flask or the like. Des. 76,853; Nov. 13.
Colonial Scale Company. (See Barnard, Arthur W., assignor.)
Columbian Carbon Company. (See Hoskins, William S., assignor.)
Combined Metals Reduction Company. (See Snyder, E. H., and Green, assignors.)
Compo-Site, Inc. (See Crossman, George J., jr., assignor.)
Congoleum-Nairn, Inc. (See Egleson, James E. A., assignor.)
Conn, David G., Yakima, Wash. Combination camp bed and luggage carrier. 1,691,601; Nov. 13.
Conner Crouse Corporation. (See Crouse, G. B., and Jatlow, assignors.)
Conner, Edward A., Stratford, Conn., assignor to American Cable Company, Inc. Stranding machine. 1,691,337; Nov. 13.
Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Aerial system. 1,691,338; Nov. 13.
Conrad, Frederick K., St. Paul, Minn. Folding bed. 1,691,268; Nov. 13.
Considine, Eugene F., Walkerville, Ontario, Canada. Piling. 1,691,704; Nov. 13.
Consolidated Expanded Metal Companies. (See Cross, Leonard W., assignor.)
Cook, Albert. (See Spina, S., and Cook.)
Cook Electric Company. (See Folds, G. R., and Baker, assignors.)
Cook, John H., Salt Lake City, Utah. Valve. 1,691,626; Nov. 13.
Cook, Wallace, L., assignor to Reliable Electric Co., Chicago, Ill. Protector. 1,691,705; Nov. 13.
Cooper, Albert J., Kew, and A. A. Bilney, London, England. Hinged joint. 1,691,468; Nov. 13.
Cooper, Thomas H. (See Long, Melvin J., assignor.)
Cornelius, Hampus G. E. (See Flodin, H. G., and Gustafsson, assignors.)
Cornelius, Hampus G. E. (See Gustafsson, Emil G. T., assignor.)
Cosgrove, Allen R. (See Jacques, J., and Cosgrove.)
Couch, Forrest J. (See Otis, C. M., and Couch.)
Cracroft, James R., Emporia, Kans. Harness attachment. 1,691,432; Nov. 13.
Cragg, Harry H., Calgary, Alberta, Canada. Insect screen. 1,691,226; Nov. 13.
Cramer, Harry L., assignor to The Sterlink Jewelry Company, Dayton, Ohio. Watch dial. Des. 76,854; Nov. 13.
Crawford, Carrol A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Combined waterproof and adhesive composition. 1,691,543; Nov. 13.
Crawford, McGregor and Canby Company, The. (See Boynton, Stanley E., assignor.)
Criqui, Charles A. (See Larkin, Elwood T., assignor.)
Crisson, George, East Orange, N. J., assignor to American Telephone and Telegraph Company, Electrical power-limiting device. 1,691,150; Nov. 13.
Crocker, Thomas F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Wire chief's test circuits for telephone systems. 1,691,269; Nov. 13.
Crompton & Knowles Loom Works. (See Bergstrom, C. P., and Folsy, assignors.)
Crompton & Knowles Loom Works. (See Clark, Everett E., assignor.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Palmer, Albert, assignor.)
Crompton & Knowles Loom Works. (See Ryon, Eppa H., assignors.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
Crompton & Knowles Loom Works. (See Wattie, William M., assignor.)
Cross, Leonard W., Wheeling, W. Va., assignor to Consolidated Expanded Metal Companies, Braddock, Pa. Metal lath. 1,691,227; Nov. 13.
Crossman, George J., jr., assignor to Compo-Site, Inc., Newark, N. J. Handle for screw driver or similar article. Des. 76,855; Nov. 13.
Crouse, George B., Woodcliff, and J. L. Jatlow, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y. Voltage regulator. 1,691,909; Nov. 13.
Crouse, George B., Woodcliff, and J. L. Jatlow, Elizabeth, N. J., assignors to Conner Crouse Corporation, New York, N. Y. Voltage regulator. 1,691,910; Nov. 13.
Crouse-Hinds Company. (See Smith, Elda G., assignor.)
Crown Cork and Seal Company of Baltimore City, The. (See Huntley, George J., assignor.)
Crumley, Frank M., assignor of one-third to G. Grandstaff and one-third to E. V. Sholty, Urbana, Ind. Window ventilator. 1,691,840; Nov. 13.
Culp, Jesse A. (See Miller Benjamin, assignor.)
Curle, George L., Minneapolis, Minn. Auxiliary melting pot for linotype machines. 1,691,380; Nov. 13.
Curran, Joseph S., Providence, R. I. Mechanical movement. 1,691,644; Nov. 13.
Curtis Lighting, Incorporated. (See Hotchkin, Paul M., assignor.)
Cutler-Hammer Mfg. Co., The. (See Oberschmidt, Frederick H., assignor.)
Cutler-Hammer Mfg. Co., The. (See Reisbach, Gustave B., assignor.)
Cypser, Hugo F., Jersey City, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Indicator for elevators or the like. 1,691,798; Nov. 13.
Daemicke, Frank W., assignor to Paul J. Daemicke Company, Chicago, Ill. Display counter. 1,691,706; Nov. 13.
Daemicke, Paul J., Company. (See Daemicke, Frank W., assignor.)
Dahlstrom, Frank P., assignor to Morgan Construction Company, Worcester, Mass. Mechanism for procuring and controlling the broadside movement of metal bars. 1,691,645; Nov. 13.
Daimler, Karl, F. Just, and G. Balle, Hochst-on-the-Main, and S. Fuchs, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Disinfecting agent. 1,691,228; Nov. 13.
Dallmann Machine and Manufacturing Co. (See Mueller, T. G., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt, assignors.)
Dallmann, Paul O. (See Mueller, T. G. Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)
Dallmann, Robert G. (See Ruetz A., and Dallmann.)
Dallmann, William C. (See Mueller, T. G., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)
Daloze, René, Uccle, Brussels, Belgium. Producing pure lead carbonate from crude lead sulphate. 1,691,841; Nov. 13.
Daly, Joseph P. (See Socia, A. J., and Daly.))
Damush, Joseph C., Shenandoah, Pa. Windshield-wiper heater. 1,691,842; Nov. 13.
D'Angelo, Carmelo T., Buffalo, N. Y. Display stand. Des. 76,856; Nov. 13.
Daniels, Anthony, Newark, N. J. Sealing containers. 1,691,707; Nov. 13.
Dantzler, Olin M., Greenwood, S. C. Envelope sealer. 1,691,409; Nov. 13.
Darby, Frederick, Chicago, Ill. Locomotive tender. 1,691,381; Nov. 13.
Davidson, Glenn. (See Laucks, I. F., and Davidson.)
Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Actuating mechanism or mechanical movement for pressing machines. 1,691,646; Nov. 13.
Davol, George K., San Francisco, Calif., assignor to C. A. Brown, Hinsdale, Ill. Internal-combustion engine. 1,691,182; Nov. 13.
Dawley, James C., C. D. Derby, and A. G. Killan, assignors to The Joyce-Cridland Company, Dayton, Ohio. Lifting jack. 1,691,382; Nov. 13.
Dawson, Axel G., Jamestown, N. Y. Frame and sash construction. 1,691,808; Nov. 13.
Deagan, J. C., Inc. (See Little, Frederick B., assignor.)
De Hart, William A., Teaneck, N. J., assignor to F. R. King, New York, N. Y. Electric flatiron. 1,691,627; Nov. 13.
Dehuff, Walter F., Glen Rock, Pa. Mixing machine. 1,691,843; Nov. 13.
De Kermor, Louis G., Edmonton, Alberta, Canada, assignor to Delway Heaters, Inc., New York, N. Y. Steam-atomizing oil burner. 1,691,048; Nov. 13.
De Luserna, Edouard. (See Breslauer, J., and de Luserna.)
Delway Heaters, Inc. (See de Kermor, Louis G., assignor.)
Demann, Walter. (See Bernhard, R., and Demann.)
Deming, William L., Salem, Ohio. Shower-bath protector. 1,691,339; Nov. 13.
De Moulin, Ulysses S., Greenville, Ill. Initiation device. 1,691,229; Nov. 13.





Dennison, Robert L., New York, N. Y. Differential gearing. 1,691,230; Nov. 13.
Denver Tent & Awning Company, The. (See Roth, C. C., and Campbell, assignors.)
Denyes, Harry M. (See Seaholm, E. W., and Denyes.)
Derby, Charles D. (See Dawley, J. C., Derby, and Killan.)
Det Norske Aktieselskab for Elektrokemisk Industri. (See Walther, Martin, assignor.)
Dewend, William D., South Bend, Ind., assignor to Oliver Chilled Plow Works. Soil-pulverizing implement. 1,691,565; Nov. 13.
Dexdale Hosiery Mills. (See Matthews, Howard W., assignor.)
Dick, Burns, assignor to Wagner Electric Corporation, St. Louis, Mo. Ignition-control mechanism. 1,691,757; Nov. 13.
Dimock, Roy W. (See Bishop, Ezra F., assignor.)
Direct-Control Valve Company. (See Lawler, James J., assignor.)
Dodd, West, Des Moines, Iowa. Method and system for protecting petroleum tanks and tank farms against lightning. 1,691,340; Nov. 13.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake. 1,691,566; Nov. 13.
Dodge, Adiel Y., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Control mechanism for vehicle wheel brakes. 1,601,567; Nov. 13.
Doerinckel, Fritz, and M. Schliemann, Leverkusen, near Cologne-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparation of anhydrides of organic acids. 1,691,647; Nov. 13.
Dollinger, Lewis L., assignor to Staynew Filter Corporation, Rochester, N. Y. Cleaning filters. 1,691,514; Nov. 13.
Domestic Stoker Company. (See Wightman, Merle J., assignor.)
Domore Chair Company. (See Adams, Arthur J.)
Donnellon, John H., deceased, Evanston, Wyo.; M. A. Donnellon, administratrix. Hair clipper. 1,691,270; Nov. 13.
Donnellon, Mildred A., administratrix. (See Donnellon, John H.)
Dost, Fred H. (See Green, C. T. M., and Dost.)
Douglas, Harry A., Bronson, Mich. Attaching means for castings. 1,691,844; Nov. 13.
Douglas, James D., Detroit, Mich. Combination portfolio and brief case. 1,691,049; Nov. 13.
Dow, Robert J., St. Paul, Minn. Washing machine. 1,691,544; Nov. 13.
Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Breathing device. 1,691,648; Nov. 13.
Dräger, Elfriede, née Stange, executrix. (See Dräger, Alexander B.)
Drake, Alden M., assignor to Greenfield Tap and Die Corporation, Greenfield, Mass. Chuck. 1,691,649; Nov. 13.
Draper Corporation. (See Hucks, Ivey O., assignor.)
Dresser, Clarence J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Phase-failure and phase-reversal protector. 1,691,433; Nov. 13.
Dreyer, Frederick, Chicago, Ill. Can opener. 1,691,050; Nov. 13.
Drill, Daniel C. (See Mottweiler, O. F., and Drill.)
Dubassoff, Dmitri, Philadelphia, Pa. Bracelet. Des. 76,857; Nov. 13.
Dubilier Condenser Corporation. (See Nyman, Alexander, assignor.)
Dubilier Condenser Corporation. (See Van Deventer, Harry R., assignor.)
Dudley, Oscar C., Canton, N. C. Plug. 1,691,231; Nov. 13.
Duwoos, Paul A. C., Rouen, France. Typographical printing machine. 1,691,383; Nov. 13.
Dworkin, Samuel, Philadelphia, Pa. Electric iron. 1,691,434; Nov. 13.
Dyer, Brainerd, Hudson, assignor to Vitreous Steel Products Company, Cleveland, Ohio. Table top or article of similar nature. Des. 76,858; Nov. 13.
Earl, Harley J., assignor to General Motors Corporation, Detroit, Mich. Radiator. Des. 76,850; Nov. 13.
Eastern Tool & Mfg. Company. (See Falstrom, Henry W., assignor.)
Eclipse Machine Company. (See Lansing, Raymond P., assignor.)
Edwards, Charles R., and S. Evans, Houston, Tex. Pipe-engaging slip. 1,691,384; Nov. 13.
Edwards, Elmer J., et al. (See Fibiger, Augustus F., assignor.)
Edwards, Roger D., Albert Lea, Minn. Mounting and driving means for snowplow cutting wheels. 1,691,232; Nov. 13.
Egleson, James E. A., East Orange, N. J., assignor to Congoleum-Nairn, Inc. Floor covering. 1,691,708; Nov. 13.
Ehrlich, Adolf, Budapest, Hungary. Vehicle propelled by steppers. 1,691,233; Nov. 13.
Eichel, Samuel. (See Smith, A. P., and Eichel.)
Eldon, Albert J. (See Roberts, F. T., and Eldon.)
Electric Refrigeration Corporation. (See Replogle, John R., assignor.)
Elevator Supplies Company. (See Cypser, Hugo F., assignor.)
Elevator Supplies Company. (See Shonnard, Harold W., assignor.)
Eller, John. (See Eller, Piroska and J.)
Eller, Piroska and J., New York, N. Y. Safety device for aeroplanes. 1,691,709; Nov. 13.
Elliott, Edward O. (See Burkhardt, C. C. C., and Elliott.)
Elliott-Fisher Company. (See Foothorap, Harry A., assignor.)
Ellis, Carleton, Montclair, N. J. Resinous material and making same. 1,691,271; Nov. 13.
English, Fred S., New London, Conn. Ink-regulating mechanism for extended-delivery devices of printing presses. 1,691,051; Nov. 13.
Enterprise Manufacturing Company, The. (See Adams, W. L., and Pflueger, assignors.)
Epps, Frank A., New York, N. Y., A. O. Boniface, East Orange, and W. D. Witter, Roselle Park, N. J., assignors, by mesne assignments, to American La France and Foamite Corporation. Fire-extinguishing apparatus. 1,691,710; Nov. 13.
Erie Malleable Iron Company. (See Selah, Howard A., assignor.)
Ernst, George, Newark, N. J. Gauge-glass attachment. 1,691,545; Nov. 13.
Evans Case Company. (See Reilly, Alfred F., assignor.)
Evans, Fredrick G., Oak Park, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Sheep shears. 1,691,341; Nov. 13.
Evans, Robert D., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. 1,691,342; Nov. 13.
Evans, Seth. (See Edwards, C. R., and Evans.)
Falconer, Frank A. (See Spencer, A. W., and Falconer.)
Falkenwalde, Oscar, assignor of one-half to R. H. Lyon, Baltimore, Md. Fuel burner. 1,691,650; Nov. 13.
Falstrom, Henry W., assignor to Eastern Tool & Mfg. Company, Bloomfield, N. J. Clip for electric-light bulbs. 1,691,799; Nov. 13.
Fansteel Products Company. (See Balke, Clarence W., assignor.)
Faris, Harold P., Chicago, assignor to Kroehler Manufacturing Company, Naperville, Ill. Chair. Des. 76,860; Nov. 13.
Faris, Harold P., Chicago, assignor to Kroehler Manufacturing Company, Naperville, Ill. Sofa. Des. 76,861; Nov. 13.
Faris, Harold P., Chicago, assignor to Kroehler Manufacturing Company, Naperville, Ill. Sofa. Des. 76,862; Nov. 13.
Farrel, Franklin, jr., New Haven, assignor, by mesne assignments, to Farrell Birmingham Company, Incorporated, Ansonia, Conn. Cane mill. 1,691,546; Nov. 13.
Farrell Birmingham Company. (See Farrel, Franklin, jr., assignor.)
Farum, Elecie P., and E. H. Specht, assignors to Oakland Machinery Company, Oakland, Calif. Combined bumper and luggage carrier. 1,691,547; Nov. 13.
Fausek, Arthur J. and I. F., St. Louis, Mo. Reducing valve. 1,691,758; Nov. 13.
Fausek, Irwing F. (See Fausek, Arthur J. and I. F.)
Fauser, Ernst G. (See Garrard, C. R., and Fauser.)
Fawkes, Leslie H. (See Stroud, Charles M., assignor.)
Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Soldering and welding tool and the like. 1,691,052; Nov. 13.
Fay, Richard D. (See Brush, C. F., jr., and Fay.)
Fedderman, George C., assignor to Auto Loading Device Manufacturing Company, Detroit, Mich. Nail. 1,691,470; Nov. 13.
Federal Telegraph Company. (See Greaves, Valentine F., assignor.)
Feldman, J. M., Co. Inc. (See Holdeman, Harry R., assignor.)
Ferrette, Louis, Paris, France. Closing and regulating cock for all liquids and gases. 1,691,602; Nov. 13.
Ferris, William S. (See Adams, Arthur J., assignor.)
Ferris, William S., Elkhart, Ind. Chair. Des. 76,863; Nov. 13.
Ferris, William S., Elkhart, Ind. Tablet armchair. 1,691,053; Nov. 13.
Fibiger, Augustus F., assignor of one-tenth to H. H. Phipps and E. J. Edwards, Spokane, Wash., and five-tenths to C. Fibiger, trustee. Swimming shoe. 1,691,385; Nov. 13.
Fibiger, Charles, trustee. (See Fibiger, Augustus F., assignor.)
Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)
Firestone Tire and Rubber Company, The. (See Kohsiek, John H., assignor.)
Fischer, Albert C., Chicago, Ill. Expansion joint. 1,691,234; Nov. 13.
Fischer, Ernest, Salem, Oreg. Gravitating hinge. 1,691,759; Nov. 13.
Fischer, Harrimann, Raceville, Nebr. Animal poke. 1,691,471; Nov. 13.
Fischer, Ottillie L. Bancroft, Nebr. Brace for club feet. 1,691,235; Nov. 13.
Fisher, Bertram, Charlottenburg, near Berlin, assignor to P. Rosenstein, Berlin, Germany. Surgical instrument for making ligatures. 1,691,386; Nov. 13.
Fisk Rubber Company, The. (See Hennessy, Daniel E., assignor.)

Fitch, Jason A., assignor to The General Fireproofing Company, Youngstown, Ohio. Extension shelf for desks. 1,691,387; Nov. 13.

Fixel, Arthur E., Detroit, Mich. Parachute. 1,691,711; Nov. 13.

Flintkote Company, The. (See Kirschbraun, L., and Levin, assignors.)

Flintkote Company, The. (See Lietz, Felix E., assignor.)

Flodin, Gustav H., Roslags-Nasby, Sweden. Producing metals and metal alloys low in carbon. 1,691,272; Nov. 13.

Flodin, Henning G., Roslags-Nasby, and E. G. T. Gustafsson, assignors to H. G. E. Cornelius, Stockholm, Sweden. Producing iron and alloys of iron having a very low percentage of carbon. 1,691,273; Nov. 13.

Flodin, Henning G., Roslags-Nasby, and E. G. T. Gustafsson, assignors to H. G. E. Cornelius, Stockholm, Sweden. Producing dense iron and iron alloys directly out of oxide ores. 1,691,274; Nov. 13.

Flum, Robert A. (See Jandus, H. S., and Flum.)

Foist, Kay. (See Burns, Charles S., assignor.)

Foisy, Victor A. (See Bergstrom, C. P., and Foisy.)

Folds, George R., Evanston, and J. S. Baker, assignors to Cook Electric Company, Chicago, Ill. Protective device. 1,691,275; Nov. 13.

Foothorap, Harry A., Harrisburg, Pa., assignor to Elliott-Fisher Company. Flat-platen typewriter. 1,691,236; Nov. 13.

Ford, Bruce, Philadelphia, Pa. Storage battery. 1,691,800; Nov. 13.

Forse, William H., jr., Anderson, Ind. Catch pulley. 1,691,183; Nov. 13.

Fort Wayne Corrugated Paper Company. (See Beaman, George B., assignor.)

Fostoria Glass Company. (See Bottome, Edgar M., assignor.)

Fostoria Glass Company. (See Magee, William H., assignor.)

Fothergill, George W., Louise, Tex. Multiplane bevel square. 1,691,801; Nov. 13.

Fowle, Frank F., Chicago, Ill. Electrical conductor. 1,691,869; Nov. 13.

Fox, Frederick L., Washington, D. C. Spark plug. 1,691,760; Nov. 13.

Francis, Jacob R. (See Heginbottom, W. G., and Francis.)

Frederick, Harvey, Newark, N. J. Advertising device. 1,691,712; Nov. 13.

Freeman, Ira, Cataract, Ind. Welding compound. 1,691,388; Nov. 13.

Freeman, Will. (See Spery, Philmore F., assignor.)

French, Jared B., Rutherford, N. J. Roofing. 1,691,343; Nov. 13.

Frenz, Frederick J., Avalon, Pa. Heating system. 1,691,435; Nov. 13.

Freundt, Louis J., Chicago, Ill., assignor to American Can Company, New York, N. Y. Combined interior collar can and pail. 1,691,276; Nov. 13.

Frey, Armand C., Soultz, France. Viscose-distributing device for artificial-silk plants. 1,691,713; Nov. 13.

Frey, Karl, Ennetbaden, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Turbine construction. 1,691,184; Nov. 13.

Frisbie, Russell A., Middletown, assignor to The J. & E. Stevens Company, Cromwell, Conn. Toy-pistol construction. 1,691,237; Nov. 13.

Fruehauf Trailer Company. (See Land, Charles H., jr., assignor.)

Frydag, Karl. (See Tank, K., and Frydag.)

Fuchs, Sigismund. (See Daimler, K., Just, Balle, and Fuchs.)

Fuhrer, Bernard, New York, N. Y. Traffic signal. 1,691,344; Nov. 13.

Fuller Brush Company, The. (See Matteson, George F., assignor.)

Fuller Brush Company, The. (See Van Veen, Anton, assignor.)

Fuller, Claud E., assignor to New York Brick Handling Corporation, New York, N. Y. Off-bearing conveyer. 1,691,881; Nov. 13.

Fulton, Robert R., Wilkinsburg, Pa., assignor to The Koppers Company. Decolorization of alkaline-earth-metal thiocyanate solutions. 1,691,345; Nov. 13.

Funk, Ira B., Alhambra, Calif., assignor to Union Oil Company of California. Fractionating. 1,691,238; Nov. 13.

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Assembling machine. 1,691,277; Nov. 13.

Furber, Frederick M., Revere, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,691,278; Nov. 13.

Furness, John A., Bromley, England. Variable-speed gear. 1,691,651; Nov. 13.

Gabel, Charles, assignor to Société Anonyme: Cartoucherie Francaise, Paris, France. Wadding device for the cartridges of fowling pieces. 1,691,802; Nov. 13.

Gadke, George, assignor to W. Gadke, Philadelphia, Pa. Ignition device. 1,691,870; Nov. 13.

Gadke, William. (See Gadke, George, assignor.)

Galley, Andrew, Buffalo, N. Y. Direction indicator for vehicles. 1,691,845; Nov. 13.

Gallimore, Keith F. (See Kempton, H. E., Gallimore, and Woytych.)

Galterio, Ada, et al. (See Galterio, Elia, assignor.)

Galterio, Elia, assignor to A. Galterio, D. C. Mariotti, and A. L. Ruggiero, Denver, Colo. Shoe-stretching last. 1,691,054; Nov. 13.

Gamble, Helen C., New York, N. Y. Collapsible hat bag. 1,691,904; Nov. 13.

Gamble, Helen C., New York, N. Y. Bag. 1,691,905; Nov. 13.

Gamon Meter Company. (See Anderson, Robert A., assignor.)

Gannett, Danforth K. (See Clark, A. B., Nyquist, and Gannett.)

Garfinkle, David. (See Mitchell, Malcolm E., assignor.)

Garnett, Henry J. (See Smith, W. S., Garnett, and Holden.)

Garrard, Charles R., and E. G. Fauser, Sydenham, England. Variable-speed gear. 1,691,389; Nov. 13.

Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Drilling mechanism. 1,691,404; Nov. 13.

Gates, Elizabeth H., Los Angeles, Calif. Measuring instrument. 1,691,279; Nov. 13.

Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Screw-forming machine. 1,691,055; Nov. 13.

General American Tank Car Corporation. (See Parks, Ostrander J., assignor.)

General American Tank Car Corporation. (See Weaver, Robert R., assignor.)

General Electric Company. (See Alexanderson, E. F. W., and Mittag, assignors.)

General Electric Company. (See Langmuir, Irving, assignor.)

General Fireproofing Company, The. (See Fitch, Jason A., assignor.)

General Insulating and Manufacturing Company. (See Mottweiler, O. F., and Drill, assignors.)

General Motors Corporation. (See Earl, Harley J., assignor.)

General Motors Corporation. (See Porter, Howard K., assignor.)

General Motors Corporation. (See Seaholm, E. W., and Denyes, assignors.)

Gerlach, Oscar, Peru, and N. Ostman, assignors to Matthiessen & Hegeler Zinc Co., La Salle, Ill. Reducing the cadmium content of zinc ore. 1,691,714; Nov. 13.

Gero, William B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Seal for hard glass. 1,691,436; Nov. 13.

Gesellschaft für Drahtlose Telegraphie m. b. H. (See von Arco, Schaffer, and Moser, assignors.)

Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Böhm, Otto, assignor.)

Gesford, Frank L., Alturas, Calif. Rest attachment for saxophones. 1,691,515; Nov. 13.

Giesel, Henry, Company. (See Hansen, Harold N., assignor.)

Giguére, Joseph C., Montreal, Quebec, Canada. Ventilator. 1,691,239; Nov. 13.

Glaser, John M., assignor to U. S. Hame Company, Buffalo, N. Y. Snap hook. 1,691,111; Nov. 13.

Gleason, Donald T. (See Schoonmaker, J. M., jr., and Gleason.)

Glore, Harry V., Oakland, Calif., assignor to Veitch Manufacturing Company. Machine for making hairpins. 1,691,516; Nov. 13.

Goerz, C. P., Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz opticky ustav. (See Karabetz, Hans, assignor.)

Goeschke, Armin, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Dyeing of cellulose esters and ethers. 1,691,517; Nov. 13.

Going, George G., Middletown, Conn., assignor, by mesne assignments, to Remington Typewriter Company. Typewriting machine. 1,691,112; Nov. 13.

Golder, Abraham, Everett, Mass. Combination lock. 1,691,240; Nov. 13.

Goldman, Harry B., Pittsburgh, Pa. Electric control system. 1,691,241; Nov. 13.

Goldman, Sigmund L., assignor to Red Sun Products Co., Chicago, Ill. Bottle-capping machine. 1,691,652; Nov. 13.

Goode, Gilbert C., East Cleveland, assignor to The White Motor Company, Cleveland, Ohio. Vehicle spring connection. 1,691,185; Nov. 13.

Goodrich, B. F., Company, The. (See Gray, Harold, assignor.)

Goodwin, William M., Central Square, N. Y. Internal-combustion engine. 1,691,151; Nov. 13.

Goodyear Tire & Rubber Company, The. (See Campbell, Wallace H., assignor.)

Goodyear Tire & Rubber Company, The. (See Kastner, Edward C., assignor.)

Goodyear Tire & Rubber Company, The. (See Kelly, William J., assignor.)

Goodyear Tire & Rubber Company, The. (See Kraft, Herman T., assignor.)

Goodyear Tire & Rubber Company, The. (See Maas, Elov F., assignor.)

Goodyear Tire & Rubber Company, The. (See Templin, Ellis W., assignor.)

Goodyear Tire & Rubber Company, The. (See Williams, Dayton L., assignor.)

Gorbutt, Sidney B., Portland, Oreg. Two-speed power take-off. 1,691,346; Nov. 13.





Gorman, Walter J., Jersey City, N. J. Burial vault. 1,691,568; Nov. 13.

Goudy, Carl F., Flushing, assignor to Pacent Electric Co., Inc., New York, N. Y. Support for electric pick-up. Des. 76,864; Nov. 13.

Graham, Walter D., River Forest, and C. M. Uhlig, Chicago, Ill., said Uhlig assignor to said Graham. Electrically-heated garment. 1,691,472; Nov. 13.

Grandstaff, Gilbert, et al. (See Crumley, Frank M., assignor.)

Granville, Bernard, New York, N. Y. Making porous material. 1,691,280; Nov. 13.

Grasselli Dyestuff Corporation. (See Berthold, Hermann, assignor.)

Grasselli Dyestuff Corporation. See Krauss, Carl, assignor.)

Graves, Roy V., Minneapolis, assignor of one-half to L. H. Hoyt, Fridley, Minn. Transparent make-up plate for use in producing page stereotype. 1,691,281; Nov. 13.

Gray, Harold, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Molding ebonite composition. 1,691,347; Nov. 13.

Gray, William T., Ballston Spa, N. Y. Wainscoting construction. 1,691,803; Nov. 13.

Greaves, Valentine F., Burlingame, assignor, by mesne assignments, to Federal Telegraph Company, San Francisco, Calif. Indicator. 1,691,569; Nov. 13.

Green, Claus T. M., Brooklyn, and F. H. Dost, Freeport, assignors to Julius Kayser & Co., New York, N. Y. Hosiery-knitting machine. 1,691,056; Nov. 13.

Green, Henry M., Los Angeles, Calif., assignor, by mesne assignments, to C. M. O'Leary. Longitudinal fibrous packing for plunger pumps. 1,691,603; Nov. 13.

Green, William D. (See Snyder, E. H., and Green.)

Greenfield Tap and Die Corporation. (See Drake, Alden M., assignor.)

Greenwood, Charles H., Canton, Ohio. Bobbin case. 1,691,242; Nov. 13.

Greer, Butler F., San Francisco, Calif. Savings bank. 1,691,628; Nov. 13.

Gregg Company Ltd., The. (See Gregg, Louis D., assignor.)

Gregg Company Ltd., The. (See Gregg, William B., assignor.)

Gregg, Louis, D., assignor to The Gregg Company Ltd., Hackensack, N. J. Stake pocket. 1,691,473; Nov. 13.

Gregg, William B., assignor to The Gregg Company Ltd., Hackensack, N. J. Car-frame construction. 1,691,474; Nov. 13.

Greilich, Henry C., Brooklyn, N. Y. Leggings. 1,691,057; Nov. 13.

Gresvig, A. (See Berge, Rasmus.)

Greth, August, Los Angeles, Calif. Cabinet. 1,691,186; Nov. 13.

Grondahl, Hans H. C., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-treating apparatus. 1,691,058; Nov. 13.

Grubman, Leo J., Belle Harbor, N. Y. Eye mounting for dolls. 1,691,437; Nov. 13.

Grubman, Leo J., Belle Harbor, N. Y., assignor to Mergenthaler Linotype Company. Line-casting machine. 1,691,653; Nov. 13.

Guhl, August C., Chicago, Ill. Cream whipper. 1,691,282; Nov. 13.

Guide Motor Lamp Manufacturing Company, The. (See Michel, Clarence A., assignor.)

Gulf Refining Company. (See Henry, R. W., and Streeter, assignors.)

Gustafsson, Emil G. T. (See Flodin, H. G., and Gustafsson.)

Gustafsson, Emil G. T., Stockholm, assignor to Hampus G. E. Cornelius, Hamngatan I A, Stockholm, Sweden. Producing metals in electric furnaces. 1,691,439; Nov. 13.

Guth, Edwin F., Company, The. (See Arthur, Harry R., assignor.)

Haabestad, Erling H. (See Ayres, E. S., jr., and Haabestad.)

Haan, R. M., Candy Co. (See Ronay, Emil H., assignor.)

Habig Manufacturing Company. (See Wishmeier, Charles H., assignor.)

Hadad, Henry Company. (See Hadad, Mitchel E., assignor.)

Hadad, Mitchel E., Brooklyn, assignor to Henry Hadad Company, Inc., New York, N. Y. Textile fabric or similar article of manufacture. Des. 76,805; Nov. 13.

Hale, Edward E., Buffalo, N. Y. Collapsible box. 1,691,152; Nov. 13.

Haley, Ora H., San Francisco, Calif. Lubricant meter. 1,691,187; Nov. 13.

Hall & Connolly, Inc. (See Hall, Theodore, assignor.)

Hall, Elbert J., Berkley, Calif. Piston ring. 1,691,518; Nov. 13.

Hall, Elbert J. (See Winslow, C. A., and Hall.)

Hall, Judson, Hartland, assignor of one-fourth to B. F. Bayha and one-fourth to H. A. Bell, Milwaukee, Wis. Propelled bathing device. 1,691,188; Nov. 13.

Hall, Judson, Hartland, assignor of one-fourth to B. F. Bayha and one-fourth to H. A. Bell, Milwaukee, Wis. Floatable toy. 1,691,189; Nov. 13.

Hall, Theodore, assignor to Hall & Connolly, Inc., New York, N. Y. Projector lamp. 1,691,475; Nov. 13.

Halliwell, John J., Tuckahoe, assignor to R. Hoe & Co., New York, N. Y. Stereotype plate. 1,691,548; Nov. 13.

Halvorson, Henry R., Finley, N. Dak. Tractor. 1,691,846; Nov. 13.

Hanan, Herbert W., Brooklyn, N. Y. Sulky. 1,691,390; Nov. 13.

Hananer, Florence L., New York, N. Y. Dress shield. 1,691,348; Nov. 13.

Hann, Clinton R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrodynamic signal device. 1,691,243 Nov. 13.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 1,691,570; Nov. 13.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel guide for submarine drills. 1,691,715; Nov. 13.

Hansen, Harold N., Highwood, assignor to Henry Giesel Company, Chicago, Ill. Ventilator. 1,691,283; Nov. 13.

Hanson, Bennie P., Cedar Falls, assignor to E. L. Moore, Waterloo, Iowa. Trunk and luggage carrier. 1,691,804; Nov. 13.

Harding Engineering Company. (See Toohey, Frank, assignor.)

Harding, Fred L., Glendale, Calif. Cleaning and extracting machine. 1,691,113; Nov. 13.

Harman, Frank B., assignor to Simmons Company Kenosha, Wis. Flexible panel. 1,691,604; Nov. 13.

Harnischfeger Corporation. (See Henricks, A. G., and Mitchell, assignors.)

Harper Manufacturing Co., The. (See Harper, Theodore B., assignor.)

Harper, Theodore B., assignor to The Harper Manufacturing Co., Inc., Hartford, Conn. Device for computing interest. 1,691,761; Nov. 13.

Harrington, George F., Edgewood, and P. H. Brace, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. High-frequency induction furnace. 1,691,349; Nov. 13.

Harris, Ford W., Los Angeles, Calif. Gas trap. 1,691,350; Nov. 13.

Harris, Howard C., Akron, Ohio. Pivotal connection. Re17,136; Nov. 13.

Harris, Jason E., Howard, Kans. Variable compression and speed device. 1,691,284; Nov. 13.

Harris, Theodore A., New York, N. Y. Sound-reproducing device. 1,691,059; Nov. 13.

Harrison, Benjamin L., Maplewood, Mo. Cleaning apparatus. 1,691,060; Nov. 13.

Harrison Radiator Corporation. (See Muir, Wellington W., assignor.)

Harter, Sherman, assignor to New Method Stove Company, Mansfield, Ohio. Range construction. 1,691,762; Nov. 13.

Hartford-Empire Company. (See Rowe, George E., assignor.)

Harvard Auto Body Company. (See Smith, A. P., and Eichel, assignors.)

Hatfield, Schuyler C., Baltimore, Md. Flexible gear. 1,691,190; Nov. 13.

Haulton, Thomas, assignor to Penn Machine Company, Johnstown, Pa. Trolley harp and wheel assembly. 1,691,805; Nov. 13.

Haven, John H., Grand Rapids, Mich. Portable and collapsible bag holder. 1,691,571; Nov. 13.

Heald Machine Company, The. (See Kempton, H. E., Gallimore, and Woytych, assignors.)

Heaton, Arnold D., and J. O. Lang, Liversedge, England. Pressing of fabrics. 1,691,476; Nov. 13.

Heaton, Arnold D., and J. O. Lang, Liversedge, England. Plant for pressing fabrics. 1,691,477; Nov. 13.

Heginbottom, Walter G., and J. R. Francis, Flint, Mich. Manifold for internal-combustion engines. 1,691,114; Nov. 13.

Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding device. 1,691,061; Nov. 13.

Helms, Henry C., assignor of one-half to E. C. Kreglo, Indianapolis, Ind. Heat register and cut-off for air-heating systems. 1,691,285; Nov. 13.

Henderson, Alonzo P., Hanover, Mass. Roofing bracket. 1,691,478; Nov. 13.

Henderson, Ella C., Pullman, Wash. Bookrack. 1,691,191; Nov. 13.

Henricks, Arthur G., and H. L. Mitchell, assignors to Harnischfeger Corporation, Milwaukee, Wis. Steering gear. 1,691,062; Nov. 13.

Hendricks, Minnie E., Greenville, S. C. Table and drawers for beds. 1,691,847; Nov. 13.

Hennessy, Daniel E., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Fabric and treating same. 1,691,605; Nov. 13.

Henry, Robert W., Port Arthur, Tex., and E. D. Streeter, Bayonne, N. J., assignors to Gulf Refining Company, Pittsburgh, Pa. Making thickened lubricating oil. 1,691,654; Nov. 13.

Henry, Robert W., Port Arthur, Tex., and E. D. Streeter, Bayonne, N. J., assignors to Gulf Refining Company, Pittsburgh, Pa. Producing thickened lubricating oil. 1,691,882; Nov. 13.

Hercules Powder Company. (See Humphrey, Irvin W., assignor.)

Herold, Walter F., Upper Montclair, N. J., assignor to The Bassick Company, Bridgeport, Conn. Caster mounting. Nov. 13.

Hicks, Thomas W., Minneapolis, Minn. Tiller. 1,691,351; Nov. 13.
Hicks, Thomas W., Minneapolis, Minn. Tiller. 1,691,352; Nov. 13.
Hill, Roland E. (See Williams, G. A., and Hill.)
Hiller, Nicolai H., Carbondale, Pa. Refrigerating apparatus. 1,691,286; Nov. 13.
Hlorns, Harry, Torquay, England. Rotary piston mechanism and its application to variable-speed gearing. 1,691,479; Nov. 13.
Hirst, Arnold. (See Hirst, Rowland R. and A.)
Hirst, Rowland R. and A., Halifax, England. Land anchor. 1,691,480; Nov. 13;
Hiscock, Percy H., Pyalong, Victoria, Australia. Earth scoop. 1,691,153; Nov. 13.
Hitchcock, Guy F., Houston, assignor of one-third to J. L. Tomlinson and one-third to T. H. Meeks, Harris County, Tex. Air-release valve. 1,691,391; Nov. 13.
Hitchcock, Reuben, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Sheet detector for paper-feeding machines. 1,691,606; Nov. 13.
Hodgson, Harriette E., New York, N. Y. Foot cap. 1,691,440; Nov. 13.
Hoe, R., & Co. (See Halliwell, John J., assignor.)
Hoe, R., & Co. (See Schmidt, Louis A., assignor.)
Hofer, Francis, Baltimore, Md. Detachable lapel. 1,691,717; Nov. 13.
Hoffman Heater Company, The. (See Reinecke, John P., assignor.)
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. 1,691,063; Nov. 13.
Holdeman, Harry R., assignor to J. M. Feldman Co. Inc., Los Angeles, Calif. Lantern frame. Des. 76,866; Nov. 13.
Holden, John A. (See Smith, W. S., Garnett, and Holden.)
Holland, Walter E., assignor to Philadelphia Storage Battery Company, Philadelphia, Pa. Electrolytic rectifier. 1,691,806; Nov. 13.
Hollister, Edward E., assignor to Hollister-Whitney Company, Quincy, Ill. Safety device for automobile lifts. 1,691,807; Nov. 13.
Hollister-Whitney Company. (See Hollister, Edward E., assignor.)
Holm, Sigurd, West Allis, Wis., assignor to The Badger Rubber Works. Tire. Des. 76,867; Nov. 13.
Holmdahl, Monville, Vallejo, Calif. Signal panel for automotive-vehicle signal device. Des. 76,868; Nov. 13.
Holmes, Arthur W., Veedersburg, D. E. Jaques, Thorntown, and H. B. Coats, Veedersburg, Ind. Dispensing device. 1,691,192; Nov. 13.
Holmes, Arthur W., Veedersburg, D. E. Jacques, Thorntown, and H. B. Coats, Veedersburg, Ind. Portable cleaner. 1,691,193; Nov. 13.
Holmes, Arthur W. (See Coats, H. B., Jaques, and Holmes.)
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Jacquard indicator for looms. 1,691,154; Nov. 13.
Holmgren, Erie A., East Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on footwear. 1,691,287; Nov. 13.
Holtzmann, E., & Cie. A.-Ges. (See Winkler, Xaver, assignor.)
Holyfield, John H., Kansas City, Kans. Hose clamp. 1,691,288; Nov. 13.
Homeland Mfg. Co., The. (See Matthai, John C., assignor.)
Hopkins, Charles Y., Bordesley Green, Birmingham, England. Emergency-bolt-operating means. 1,691,655; Nov. 13.
Hoppe, Olga I., Kew Gardens, N. Y. Fastening device. 1,691,064; Nov. 13.
Hormes, William T., Catonsville, Md. Grille. Des. 76,869; Nov. 13.
Hormes, William T., Catonsville, Md. Grille. Des. 76,870; Nov. 13.
Hoskins, William S., Warren, assignor to Columbian Carbon Company, Williamsport, Pa. Bolter for carbon black, etc. 1,691,572; Nov. 13.
Hotchkin, Paul M., assignor to Curtis Lighting, Incorporated, Chicago, Ill. Bank-screen-lighting device. 1,691,883; Nov. 13.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Container. 1,691,289; Nov. 13.
Household Guide Corporation. (See Betts, Isaac S., assignor.)
Howard, Henry, assignor to Tingue Manufacturing Company, Seymour, Conn. Loom and method of weaving double-pile fabrics. 1,691,194; Nov. 13.
Howard, Henry, assignor to Tingue Manufacturing Company, Seymour, Conn. Loom and method of weaving double-pile fabrics. 1,691,195; Nov. 13.
Howell, Edward I., Phillipsburg, N. J. Holder. 1,691,155; Nov. 13.
Howser, Walter M., La Porte, Ind. File holder. 1,691,808; Nov. 13.
Hoyt, Lyman H. (See Graves, Roy V., assignor.)
Hucks, Ivey O., Rosemary, N. C., assignor to Draper Corporation, Hopedale, Mass. Let-off mechanism for looms. 1,691,884; Nov. 13.
Huenefeld, Carl H., and G. Campbell, Aurora, Nebr., assignors of two-thirds to said Huenefeld and one-third to said Campbell. Machine for digging pit silos and cisterns. 1,691,809; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making dipolymer. 1,691,065; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Dehydration products of pine oil and producing same. 1,691,066; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making dipolymer. 1,691,067; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making dipolymer. 1,691,068; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making dipolymer. 1,691,069; Nov. 13.
Humphrey, Irvin W., Wharton, N. J., assignor to Hercules Powder Company, Wilmington, Del. Making dipolymer. 1,691,573; Nov. 13.
Huntley, George J., assignor to The Crown Cork and Seal Company of Baltimore City, Baltimore, Md. Filling and crowning machine. 1,691,718; Nov. 13.
Huntley, Walter E. (See Bertram, Bellon, assignor.)
Huppert, William, New York, N. Y. Electrical socket. Des. 76,871; Nov. 13.
Hurlbrink, Ernst, assignor to Martini & Huneke Maschinenbau Aktien-Gesellschaft, Berlin, Germany. Apparatus for dispensing liquids. 1,691,070; Nov. 13.
Hussey, Chester L., Oyster Bay, N. Y., and W. H. Stebbins, assignors to J. B. Martin Company, Norwich, Conn. Head motion for looms. 1,691,156; Nov. 13.
Hussey, Edward K., Oakland, Calif. Hair-curling iron. 1,691,244; Nov. 13.
Hutchinson, Mackintosh, Philadelphia, Pa. Woodworking machine. 1,691,519; Nov. 13.
Hydro-Check Corporation. (See Ackerman, E. W., and Nicholson, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Daimler, K., Just, Balle, and Fuchs, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Doerinckel, F., and Schllemann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Spengler, Oskar, assignor.)
Industrial Research Corporation. (See Brockway, Carl P., assignor.)
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll-Rand Company. (See Zimmermann, William F., assignor.)
Insulation Manufacturing Company. (See Starke, August L., assignor.)
International Harvester Company. (See Beall, William L., assignor.)
International Harvester Company. (See Burger, Leopold F., assignor.)
International Harvester Company. (See Kipp, Roy H., assignor.)
International Harvester Company. (See Pearson, Charles, assignor.)
International Harvester Company. (See Rand, Charles A. A., assignor.)
International Harvester Company. (See Scarlett, Arthur A., assignor.)
Invincible Laundry Equipment Co. (See Bell, Daniel, assignor.)
Ireland Aircraft Inc. (See Brimm, Daniel J., jr., assignor.)
Ireland, John F., Pennville, Ind. Electric sign. 1,691,520; Nov. 13.
Itzerott, Karl H., Philadelphia, Pa. Bandage fastener. 1,691,810; Nov. 13.
Ives, Charles Q. (See Burke, E., and Ives.)
Ives, Herbert E., Montclair, and M. B. Long, Glen Ridge, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Transmission of pictures by electricity. 1,691,071; Nov. 13.
Jacobs, Josep H., Rochester, N. Y. Curling-iron attachment. 1,691,115; Nov. 13.
Jacques, Jean, and A. R. Cosgrove, assignors to Martin-Parry Corporation, York, Pa. Ice tray for electrical refrigeration. 1,691,481; Nov. 13.
Jandus, Herbert S., assignor to The C. G. Spring and Bumper Company, Detroit, Mich. Bumper-supporting means. 1,691,885; Nov. 13.
Jandus, Herbert S., and R. A. Flum, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Vehicle bumper. 1,691,886; Nov. 13.
Jaques, Donald E. (See Coats, H. B., Jaques, and Holmes.)
Jaques, Donald E. (See Holmes, A. W., Jaques, and Coats.)
Jatlow, Jacob L. (See Crouse, G. B., and Jatlow.)
Jencick, Stephen, Cleveland, Ohio. Flexible coupling. 1,691,116; Nov. 13.
Jenkins, Charles F., Washington, D. C. Depth meter. 1,691,719; Nov. 13.
Jensen, Thomas C., Copenhagen, Denmark. Racing game valve. 1,691,521; Nov. 13.
Jerome, George C., assignor to Stewart Manufacturing Corporation, Chicago, Ill. Making rod packing. 1,691,574; Nov. 13.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Handle for pneumatic tools. 1,691,720; Nov. 13.





Jirotka, Bohumil, Berlin, Germany, assignor to the firm Dr. Otto Sprenger Patentverwertung Jirotka mit beschränkter Haftung, Vaduz, Lichtenstein. Apparatus for producing hard homogeneous fuel or similar objects from peat, peat moss, lignite, or the like. 1,691,196; Nov. 13.
Johanson, Adolph T., Chicago, Ill. Water-mixing valve. 1,691,197; Nov. 13.
Johnson, August, Nebraska City, Nebr. Revetment mat. 1,691,848; Nov. 13.
Johnson, Bror W., Fertile, Minn. Clamp. 1,691,392; Nov. 13.
Johnson, Elmer, San Francisco, Calif. Valve mechanism. 1,691,811; Nov. 13.
Johnson, Harold, and L. O. Aune, Windom, Minn. Electric brake for automobiles. 1,691,812; Nov. 13.
Johnson, Lloyd E. (See Sparks, W., Scofield, Johnson, and Billig.)
Johnson, Nathan C., Englewood, N. J. Process of and material for treating concrete. 1,691,721; Nov. 13.
Johnson-Williamson Laboratories, Inc. (See Polydoroff, Wladimir J., assignor.)
Johnson-Williamson Laboratories, Incorporated. (See Williamson, Henry M., assignor.)
Jones, Clayton, Duluth, Minn. Clip-attaching tool. 1,691,353; Nov. 13.
Jones, Howard B., Evanston, Ill. Connection device. 1,691,072; Nov. 13.
Jones, Lewis, New York, N. Y. Vacuum lifter. 1,691,198; Nov. 13.
Jones, Tom D. (See Wayland, J. T., and Jones.)
Joughins, George R., New York, N. Y. Pneumatic spring. 1,691,482; Nov. 13.
Joyce-Cridland Company, The. (See Dawley, James C., Derby, and Killan, assignors.)
Judelson, Julius, New York, N. Y. Drier cabinet. 1,691,290; Nov. 13.
Jurgensen, August P. (See Chayes, H. E. S., and Jurgensen.)
Just, Fritz. (See Daimler, K., Just, Balle, and Fuchs.)
Kaelma Manufacturing Company. (See Snyder, George C., assignor.)
Kahaleohu, Joseph K., Honolulu, Hawaii. Switch. 1,691,291; Nov. 13.
Kahn, Julius, assignor to Truscon Steel Company, Youngstown, Ohio. Metallic joist. 1,691,722; Nov. 13.
Kales Stamping Company. (See Zink, Fred W., assignor.)
Kamps, Johann, Dilsiaken-Eppinhoven, Germany. Stationary cowl with wind channels. 1,691,393; Nov. 13.
Karabeta, Hans, Vienna, Austria, assignor to the firm C. P. Goerz, Optische Anstalt Aktiengesellschaft, Akciova Spolecnost K. P. Goerz opticky ustav, Bratislava, Czechoslovakia. Apparatus for electrically transmitting signals indicating results of observation. 1,691,813; Nov. 13.
Karfiol, Edward, Brooklyn, N. Y. Dolly. Des. 76,872; Nov. 13.
Karl, Heinrich, Jersey City, N. J. Sanitary preserving food container such as cans or boxes of any shape. 1,691,394; Nov. 13.
Kastner, Edward C., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Electrical cutter for circular-mandrel tubes. 1,691,763; Nov. 13.
Kayser, Julius, & Co. (See Green, C. T. M., and Dost, assignors.)
Keil, Charles R., Tiffin, Ohio, assignor to United States Glass Company, Pittsburgh, Pa. Goblet or similar article. Des. 76,873; Nov. 13.
Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)
Kelly, William J., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Gas-cell fabric. 1,691,764; Nov. 13.
Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. J. Printing press. 1,691,656; Nov. 13.
Kempton, Herbert E., Chicago, Ill., and K. F. Gallimore and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Chuck. 1,691,657; Nov. 13.
Kennedy, Daniel J., Yonkers, N. Y. Pneumatic guard. 1,691,658; Nov. 13.
Kennedy, John E. and M. A., Los Angeles, Calif. Tire-pressure gauge. 1,691,441; Nov. 13.
Kennedy, Michael A. (See Kennedy, John E. and M. A.)
Kennell, Henry, New York, N. Y. Telltale positive and automatic gas-cut-off valve. 1,691,442; Nov. 13.
Kerr, Barron J. J., Wimborne, Alberta, Canada. Wagon seat. 1,691,157; Nov. 13.
Kerr, Harry E., assignor to The Cleveland Gas Burner & Appliance Company, Cleveland, Ohio. Gas burner. 1,691,607; Nov. 13.
Kery, Martin, St. Catherines, Ontario, Canada. Vegetable cutter. 1,691,483; Nov. 13.
Keys, Walter C., Detroit, Mich., assignor to The Mechanical Rubber Company, Cleveland, Ohio. Cushioning connection. 1,691,723; Nov. 13.
Keyser, Johann J., Aarau, Switzerland. Supporting means for spindles in spinning machines and the like. 1,691,199; Nov. 13.
Killian, Albert G. (See Dawley, J. C., Derby, and Killian.)
Killian, Frederick K., Syracuse, N. Y. Caster. 1,691,659; Nov. 13.
King, Alfred C., and J. Stringer, assignors to King, Stringer & Company Limited, London, England. Anti-theft device for motor vehicles. 1,691,484; Nov. 13.
King, Frances R. (See De Hart, William A., assignor.)
King, Frank A., and E. Bedford, assignors to Emil Weissbrod & Sons, Inc., Greenfield, Mass. Key case. 1,691,608. Nov. 13.
King, George A. (See Boden, G., and King.)
King, James W., assignor to The Tissue Company, Saugerties, N. Y. Napkin holder. Des. 76,874; Nov. 13.
King, Oral A., South Norfolk, Va. Toothbrush case. 1,691,814; Nov. 13.
King, Stringer & Company, Limited. (See King, A. C., and Stringer, assignors.)
Kingsbury, George P., Hollis, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,691,849; Nov. 13.
Kipp, Roy H., Chicago, Ill., assignor to International Harvester Company. Disk-lister attachment for cultivators. 1,691,549; Nov. 13.
Kirk, Benjamin K., Philadelphia, Pa. Mine locomotive. 1,691,815; Nov. 13.
Kirk, William A., Hot Springs National Park, Ark. Sash fastener. 1,691,485; Nov. 13.
Kirschbraun, Lester, Chicago, Ill. Making emulsion paints. 1,691,765; Nov. 13.
Kirschbraun, Lester, Leonia, N. J. Producing emulsions or dispersions and product thereof. 1,691,768; Nov. 13.
Kirschbraun, Lester, Chicago, Ill., and H. L. Levin, Passaic, N. J.; said Levin assignor to The Flintkote Company, Boston, Mass. Producing emulsions or dispersions. 1,691,766; Nov. 13.
Kirschbraun, Lester, Chicago, Ill., and H. L. Levin, Passaic, N. J., assignors to The Flintkote Company, Boston, Mass. Producing emulsions or dispersions. 1,691,767; Nov. 13.
Klocke, William H., Woodhaven, N. Y., assignor to The Cleveland Graphite Bronze Company, Cleveland, Ohio. Making lined bearings. 1,691,073; Nov. 13.
Klyce, William H., Flint, Mich. Telescopic hose coupling. 1,691,816; Nov. 13.
Kobert, Frank P., Amityville, N. Y. Electric riveting. 1,691,522; Nov. 13.
Kohsick, John H., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire. Des. 76,875; Nov. 13.
Kokomo Steel and Wire Company. (See Porath, Carl A., assignor.)
Koppers Company, The. (See Fulton, Robert R., assignor.)
Korvallis, John N., Los Angeles, Calif. Automobile signal. Des. 76,876; Nov. 13.
Kosack, Paul, Grand Island, Nebr. Plastic reenforced building construction. 1,691,117; Nov. 13.
Kosfeld, Wilhelm, Dortmund, Germany. Machine for shaping and grinding stones for blast furnaces. 1,691,898; Nov. 13.
Kosnick, Charles, New York, N. Y. Coupling. 1,691,817; Nov. 13.
Kraft, Herman T., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Keel column. 1,691,818; Nov. 13.
Krasnosky, George, Pensacola, Fla. Woodworking apparatus. 1,691,850; Nov. 13.
Krauss, Carl, Leverkusen-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuffs of the 2,2'-indole-thionaphthene-indigo series. 1,691,660; Nov. 13.
Kreglo, Edgar Co. (See Helms, Henry C., assignor.)
Kroehler Manufacturing Company. (See Faris, Harold P., assignor.)
Krug, Rica, Gardner, Ill. Household motor combination. 1,691,200; Nov. 13.
Kruschka, Edward A., Milwaukee, Wis. Door-holding means. 1,691,724; Nov. 13.
Kruse, Wilhelm, Berlin, Germany. Impulse-dial apparatus for automatic telephone systems. 1,691,575; Nov. 13.
Kueliner, Wilhelm, Providence, R. I. Bracelet or similar article. Des. 76,877; Nov. 13.
Kujawski, Max J. (See Mueller, T. G., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)
Kusterle, Frank Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Mattress ventilator. 1,691,629; Nov. 13.
Kyrklund, Carl H., Winthrop, Minn. Cultivator-shovel structure. 1,691,292; Nov. 13.
La Bar, Bert G., Turtle Creek, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,691,354; Nov. 13.
La Barre, Eugene G., Detroit, Mich. Display rack. 1,691,576; Nov. 13.
Lampert, Henry H., Chicago, Ill. Reenforcing means for concrete beam structures. 1,691,074; Nov. 13.
Land, Charles H., jr., assignor to Fruehauf Trailer Company, Detroit, Mich. Semitrailer. Re17,132; Nov. 13.
Landis, Aaron. (See Lefkowitz, Aaron.)
Lang, John, Wauwatosa, Wis. Bath apparatus. 1,691,577; Nov. 13.
Lang, John O. (See Heston, A. D., and Lang.)
Langley, Frederick, Cohoes, N. Y. Window cleaner. 1,691,819; Nov. 13.
Langmuir, Irving, Schenectady, N. Y., assignor to General Company. Circuit-control apparatus. 1,691,395; Nov. 13.

Lansing, Raymond P., Contclair, N. J., assignor to Eclipse Machine Company, Elmira, N. Y. Engine starter. 1,691,820; Nov. 13.
Larkin, Elwood T., assignor to C. A. Criqui, Buffalo, N. Y. Carburetor. 1,691,201; Nov. 13.
Larson, Alfred P., Jamestown, N. Y. Arrow gun. 1,691,769; Nov. 13.
Larson, Enoch, Eldora, Iowa. Hosiery-display rack. 1,691,293; Nov. 13.
Laucks, I. F. (See Laucks, I. F., and Davidson, assignors.)
Laucks, Irving F., and G. Davidson, assignors to I. F. Laucks, Inc., Seattle, Wash. Vegetable glue and making same. 1,691,661; Nov. 13.
La Van, Reabourne C., Dayton, Ohio. Helmet. 1,691,202; Nov. 13.
Lawler, James J., Mount Vernon, assignor to Direct-Control Valve Company, New York, N. Y. Automatic heat-controlling regulator. Re17,135; Nov. 13.
Lawrence, Harold S. (See Thomson, R. H., and Lawrence.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automatic electric welding machine. 1,691,486; Nov. 13.
Lee, Thomas L., and H. C. Rohr, Rochester, assignors to North East Electric Company, Rochester, N. Y. Electromagnetic instrument. 1,691,203; Nov. 13.
Lefkowitz, Aaron, by judicial change of name A. Landis, New York, N. Y. Bag. 1,691,900; Nov. 13.
Leighton, John W., Port Huron, Mich. Producing metal tubes. 1,691,725; Nov. 13.
Lequornik, Eugene. (See Williams, J. A., and Lequornik.)
Lessing, Samuel J., St. Joseph, Mich. Vehicle spring. 1,691,550; Nov. 13.
Leveque, Charles L., Detroit, Mich. Carburetor. 1,691,487; Nov. 13.
Levin, Harold L. (See Kirschbraun, L., and Levin.)
Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Automatic speed-controlling device. 1,691,294; Nov. 13.
Lewellen Manufacturing Company. (See Lewellen, Darcy E., assignor.)
Litchtenstadt, Charles, Chicago, Ill. Protecting and fireproofing materials. 1,691,726; Nov. 13.
Lietz, Felix E., Buffalo, N. Y., assignor to The Flintkote Company, Boston, Mass. Shingle lock. Re17,133; Nov. 13.
Lind, Adolph F., Kittanning, Pa. Combined table and ironing board. 1,691,821; Nov. 13.
Lindmeyer, Louis W., Butte, Mont. Pedal holder. 1,691,822; Nov. 13.
Lindstrom, Frank A., St. Paul, Minn. Paddle boat. 1,691,396; Nov. 13.
Lion, Harold S., assignor, by mesne assignments, to United Milk Crate Company, Cincinnati, Ohio. Box. 1,691,158; Nov. 13.
Lissy, William, Spokane, Wash. Miter square. 1,691,118; Nov. 13.
Lister, R. A., & Company. (See Ashworth, Percy B., assignor.)
Little, Frederick B., assignor to J. C. Deagan, Inc., Chicago, Ill. Musical-sound-producing instrument. 1,691,295; Nov. 13.
Litty, John R., and T. B. Lundin, Philadelphia, Pa. Fruit-cleaning machine. 1,691,727; Nov. 13.
Litvinchev, Ivan I., Moscow, Russia. Automatic train-switching device. 1,691,296; Nov. 13.
Lloyd, Burt E., Montclair, N. J. Sounding figure toy. 1,691,443; Nov. 13.
Lockwood, Dorothy, Merton Park, and A. J. Searle, London, England. Line-stretching apparatus. 1,691,397; Nov. 13.
Long, Maurice B. (See Ives, H. E., and Long.)
Long, Melvin J., assignor of one-half to T. H. Cooper, Brea, Calif. Shock-absorbing bumper. 1,691,398; Nov. 13.
Lonsinger, Charles L., Walhonding, Ohio. Walking beam. 1,691,770; Nov. 13.
Lormor, Henry W., assignor to Willard Storage Battery Company, Cleveland, Ohio. Brushing machine. 1,691,399; Nov. 13.
Lougovoy, Boris N., Montclair, N. J., assignor to Chadeloid Chemical Company. Paint and varnish remover containing an alkali-metal benzoate as a thickening agent. 1,691,771; Nov. 13.
Loutrel, Cyrus H., South Orange, assignor to The National Lock Washer Company, Newark, N. J. Compression spring washer. 1,691,444; Nov. 13.
Löwy, Ludwig, assignor to Schloemann Aktiengesellschaft, Dusseldorf, Germany. Mandrel-upsetting press. 1,691,075; Nov. 13.
Ludeman Brothers Incorporated. (See Ludeman, Oscar H., assignor.)
Ludeman, Oscar H., Glen Ridge, N. J., assignor to Ludeman Brothers Incorporated, New York, N. Y. Safety stop mechanism. 1,691,630; Nov. 13.
Ludwick, Herbert V., assignor to Budd Wheel Company, Philadelphia, Pa. Wheel. 1,691,488; Nov. 13.
Lundin, Trued B. (See Litty, J. R., and Lundin.)
Luxor Electrical Fixture Corp. (See Binder, Harry, assignor.)
Lyda, Arthur W., North Canton, assignor to The American Safety Navigation Company, Canton, Ohio. Davit for lifeboats. 1,691,245; Nov. 13.
Lyon, Robert H. (See Falkenwalde, Oscar, assignor.)
Lyons, Robert L., Waltham, Mass., assignor to Frederick Osann Company, New York, N. Y. Button-sewing machine. 1,691,246; Nov. 13.
Maas, Elov F., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Aligning device. 1,691,772; Nov. 13.
MacLean, Leonard A., Reading, Mass. Machine for patching shipping tags, etc. 1,691,773; Nov. 13.
Madison, Charles W. (See Armbruster, A. L., and Madison.)
Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Bowl. Des. 76,878; Nov. 13.
Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Bowl. Des. 76,879; Nov. 13.
Magee, William H., assignor to Fostoria Glass Company, Moundsville, W. Va. Candlestick. Des. 76,880; Nov. 13.
Mariotti, D. Charles, et al. (See Galterio, Elia, assignor.)
Martin, Arthur H. (See Charlebois, F. J., and Martin.)
Martin, Delbert J., Sacramento, Calif. Marcel iron. 1,691,895; Nov. 13.
Martin, J. B., Company. (See Hussey, C. L., and Stebbins, assignors.)
Martin-Parry Corporation. (See Jacques, J., and Cosgrove, assignors.)
Martin, Welcome C., Chicago, Ill. Changeable exhibitor. 1,691,551; Nov. 13.
Martini & Huneke Maschinenbau Aktien-Gesellschaft. (See Hurlbrink, Ernst, assignor.)
Marvel Carburetor Company. (See Redmond, Albert G., assignor.)
Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Two-way radio signaling system. 1,691,076; Nov. 13.
Matson, Carl A., Lynnfield, Mass. Safety locking device for automobiles. 1,691,774; Nov. 13.
Matteson, George F., Rocky Hill, assignor to The Fuller Brush Company, Hartford, Conn. Wire-bending machine. 1,691,159; Nov. 13.
Matthai, John C., assignor to The Homeland Mfg. Co., Baltimore, Md. Miniature or toy fence section. 1,691,728; Nov. 13.
Matthews, Howard D., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Measuring temperature. 1,691,247; Nov. 13.
Matthews, Howard W., assignor to Dexdale Hosiery Mills, Lansdale, Pa. Yarn-cutting means for knitting machines. 1,691,887; Nov. 13.
Matthews, W. N., Corporation. (See Birkenmaier, Theodore, assignor.)
Matthiessen & Hegeler Zinc Co. (See Gerlach, O., and Ostman, assignors.)
Mattingly, Julia B., Washington, D. C. Device for securing together piece of material. 1,691,775; Nov. 13.
Mavor and Coulson, Limited. (See Thomson, James, assignor.)
Maycen, Othmar, New York, N. Y. Washing machine. 1,691,523; Nov. 13.
Maycen, Othmar, New York, N. Y. Washing machine. 1,691,524; Nov. 13.
Mayes Brothers Tool Manufacturing Company. (See Mayes, John, assignor.)
Mayes, John, assignor to Mayes Brothers Tool Manufacturing Company, Fort Austin, Mich. Spirit level. 1,691,776; Nov. 13.
Mayes, John, assignor to Mayes Brothers Tool Manufacturing Company, Fort Austin, Mich. Plasterer's float. 1,691,777; Nov. 13.
McCormick, Bradley. (See Welchsel, H., and McCormick.)
McCuean, George A., Sharpsburg, Pa. Self-tightening pipe union. 1,691,851; Nov. 13.
McDonald, Charles B., assignor to Wilcox Products Corporation, Detroit, Mich. Forming valve tappets. 1,691,778; Nov. 13.
McDonald, Charles B., assignor to Wilcox Products Corporation, Detroit, Mich. Valve tappet and forming the same. 1,691,779; Nov. 13.
McDonnell, Anthony F., Dunmore, assignor of one-third to W. A. Quinn, Scranton, Pa. Closure for bottles. 1,691,525; Nov. 13.
McDonnell, Anthony F., Dunmore, assignor of one-third to W. A. Quinn, Scranton, Pa. Closure for containers. 1,691,526; Nov. 13.
McDonnell, Anthony F., Dunmore, assignor of one-third to W. A. Quinn, Scranton, Pa. Closure for containers. 1,691,780; Nov. 13.
McElroy, James A., Kansas City, Mo. Shocker. 1,691,355; Nov. 13.
McKibben, Charles W., Houston, Tex. Separating associated liquids. 1,691,578; Nov. 13.
McMurtry, John, assignor of one-third to W. H. Parks and one-third to A. H. Strahle, Mission, Tex. Railway switch. 1,691,852; Nov. 13.
Meadows, Ottis F., Asheville, N. C. Advertising device. 1,691,204; Nov. 13.
Meakin & Ridgway, Inc. (See Ridgway, Edward J., assignor.)
Mechanical Rubber Company, The. (See Keys, Walter C., assignor.)
Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 76,881; Nov. 13.
Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 76,882; Nov. 13.
Mechlovits, Bernat, New York, N. Y. Metal brooch or similar article. Des. 76,883; Nov. 13.



Meeks, Thomas H., et al. (See Hitchcock, Guy F., assignor.)
Meisel, Charles A., Milton, assignor to Meisel Press Manufacturing Company, Boston, Mass. Sheet-handling mechanism. 1,691,891; Nov. 13.
Meisel, Otto C. F., assignor to Meisel Press Manufacturing Company, Boston, Mass. Sheet-handling mechanism. 1,691,888; Nov. 13.
Meisel, Otto C. F., assignor to Meisel Press Manufacturing Company, Boston, Mass. Controlling mechanism for successively-acting printing units. 1,691,889; Nov. 13.
Meisel, Otto C. F., assignor to Meisel Press Manufacturing Company, Boston, Mass. Tucker. 1,691,890; Nov. 13.
Meisel Press Manufacturing Company. (See Meisel, Charles A., assignor.)
Meisel Press Manufacturing Company. (See Meisel, Otto C. F., assignor.)
Melcher, Lee W., West De Pere, assignor to Railway Motors Corporation, De Pere, Wis. Motor-driven vehicle. 1,691,579; Nov. 13.
Mellodon, Jules A., Lincoln Park, N. J. Ornamental jewelry. 1,691,445; Nov. 13.
Mergenthaler Linotype Company. (See Guest, Alfred W. F., assignor.)
Mergenthaler Linotype Company. (See Kingsbury, George P., assignor.)
Meuttman, William R., Cincinnati, Ohio. Self-closing receptacle. 1,691,160; Nov. 13.
Meyer, Nathan S., New York, N. Y. Package. 1,691,781; Nov. 13.
Meyers, George W., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Safety mechanism for street-car and door operation. 1,691,729; Nov. 13.
Michel, Clarence A., assignor to The Guide Motor Lamp Manufacturing Company, Cleveland, Ohio. Automobile headlight. 1,691,662; Nov. 13.
Mikesh, Martin A., Jersey City, N. J. Reverse brake. 1,691,907; Nov. 13.
Miller, Benjamin, Los Angeles, assignor of one-half to J. A. Culp, Van Nuys, Calif. Double-acting plunger pump. 1,691,489; Nov. 13.
Miller, Craig, Huntington, W. Va. Window structure. 1,691,490; Nov. 13.
Miller, Frank, Los Angeles, Calif. Piston-ring mounting and removing tool. 1,691,161; Nov. 13.
Miller, Frederick W., Hockley Heath, England. Radiator-shutter control. 1,691,580; Nov. 13.
Miller, George F., Brooklyn, assignor to American Can Company, New York, N. Y. Sealing of slip-cover cans or containers. 1,691,297; Nov. 13.
Miller, Mark H., Indianapolis, Ind. Ventilating apparatus. 1,691,162; Nov. 13.
Miller, William J., Swissvale, Pa. Mold loading and transferring machine and jigger combined. 1,691,119; Nov. 13.
Milliring, Laura L., New York, N. Y. Dressing-table receptacle for cosmetics or the like. Des. 76,884; Nov. 13.
Minier, William H., Toledo, Ohio. Automobile sander. 1,691,298; Nov. 13.
Mitchell, Holger L. (See Henricks, A. G., and Mitchell.)
Mitchell, Malcolm E., assignor of one-half to D. Garfinkle, Alameda, Calif. Signaling device. 1,691,400; Nov. 13.
Mittag Albert H. (See Alexanderson, E. F. W., and Mittag.)
Moerschel, George C. (See Mueller, T. G., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)
Mogford, Edmund C., Buchanan, and F. W. Burger, Niles, assignors to Clark Equipment Company, Buchanan, Mich. Making metal wheels. 1,691,163; Nov. 13.
Moldenke, Richard, Watchung, assignor to New Process Multi-Castings Company, Irvington, N. J. Using direct metal from blast furnaces. 1,691,401; Nov. 13.
Mollett, Errol M., Sacramento, Calif. Rotary electric engine. 1,691,853; Nov. 13.
Monk, Travis B., Chicago, Ill. Window-washing device. 1,691,164; Nov. 13.
Moore, Edward L. (See Hanson, Bennie P., assignor.)
Morgan Construction Company. (See Dahlstrom, Frank P., assignor.)
Morgan & Wright. (See Nesmith, Ralph H., assignor.)
Morrill, Philip E., and R. E. Pierce, assignors to Bemis Bros. Bag Company, St. Louis, Mo. Bag. 1,691,782; Nov. 13.
Morris Brothers Company, The. (See Morris, Robert E., assignor.)
Morris, Richard H., 3d, Philadelphia, Pa. Spent-soil compost. 1,691,077; Nov. 13.
Morris, Robert E., assignor to The Morris Brothers, Salisbury, Md. Newel post. 1,691,663; Nov. 13.
Morrison, Louis E., Salida, Colo. Valve for water lifts. 1,691,664; Nov. 13.
Morrison, Montford, Chicago, Ill. Insulating bushings and making the same. 1,691,856; Nov. 13.
Morse, Alan L., Dayton, Ohio. Powder-distributing apparatus. 1,691,205; Nov. 13.
Mortimer, Charles W., Brooklyn, N. Y. Performing chemical reactions. 1,691,903; Nov. 13.
Morton, Allen W., assignor to The American Hammered Piston Ring Company, Baltimore, Md. Grinding piston rings. 1,691,120; Nov. 13.
Moser, Wilhelm. (See von Arco, G., Schaffer, and Moser.)
Mosler Lock Company, The. (See Benham, Edgar M. and W. T., assignors.)
Mosler Safe Company, The. (See Robinson, Harry J., assignor.)
Mottweiler, Oliver F., and D. C. Drill, assignors to General Insulating and Manufacturing Company, Alexandria, Ind. Insulating structure. 1,691,783; Nov. 13.
Mudd, Francis X., Chicago, Ill. Poultry-coop door and trough. 1,691,665; Nov. 13.
Mueller, Theodore G., A. R. Buchholz, P. O. Dallmann, G. C. Moerschel, W. C. Dallmann, M. J. Kujawski, and W. H. Schmidt, assignors to Dallmann Machine and Manufacturing Co., Milwaukee, Wis. Saw-rig attachment for tractors. 1,691,581; Nov. 13.
Mumy, Glenn, Detroit, Mich. Control for electric circuits. 1,691,666; Nov. 13.
Muir, Wellington W., assignor to Harrison Radiator Corporation, Lockport, N. Y. Operating cooling systems for internal-combustion engines. 1,691,121; Nov. 13.
Mulvihill, Daniel C., Hannibal, Mo. Railway crossing. 1,691,078; Nov. 13.
Munro, Alexander C., Britannia Beach, British Columbia, Canada. Ball-forming machine. 1,691,248; Nov. 13.
Mustad, O., & Son. (See Topp, Mathias, assignor.)
Muzzy, William H., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Gasoline gauge. 1,691,730; Nov. 13.
Myers, William M., St. Joseph, assignor to E. H. Roraback, Kansas City, Mo. Electric water purifier. 1,691,731; Nov. 13.
Mylius, Walter G., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,691,357; Nov. 13.
National Cash Register Company, The. (See Von Pein, Edwin J., assignor.)
National Fireworks, Inc. (See Anderson, Robert J., assignor.)
National Lead Company. (See Newnam, William E., assignor.)
National Lock Washer Company, The. (See Loutrel, Cyrus H., assignor.)
National Pneumatic Company. (See Meyers, George W., assignor.)
Nebel, Ernst O., Philadelphia, assignor to Oscar Nebel Co., Inc., Hatboro, Pa. Stocking. Des. 76,885; Nov. 13.
Nebel, Oscar, Co. (See Nebel, Ernst O., assignor.)
Neidich, Samuel A., Edgewater Park, N. J. Filament-drying apparatus. 1,691,165; Nov. 13.
Nelson, Emil A., Abington, assignor to Budd Wheel Company, Philadelphia, Pa. Making rims. 1,691,491; Nov. 13.
Nelson, Martin L. (See Richardson, R. G., and Nelson.)
Nesmith, Ralph H., Grosse Pointe Park, assignor to Morgan & Wright, Detroit, Mich. Tire. Des. 76,886; Nov. 13.
Nettleton, Lewis L., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Electrical apparatus. 1,691,206; Nov. 13.
Newark Concrete Pipe Co. (See Sherrerd, Francis H., assignor.)
Newland, Barnet, New York, N. Y. Arm for lighting fixtures. Des. 76,887; Nov. 13.
New Method Stove Company. (See Harter, Sherman, assignor.)
Newnam, William E., Collinsville, Ill., assignor to National Lead Company, St. Louis, Mo. Pig-stacking machine. 1,691,552; Nov. 13.
New Process Multi-Castings Company. (See Moldenke, Richard, assignor.)
New York Brick Handling Corporation. (See Fuller, Claud E., assignor.)
Nicholas, William, Bellevue, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,691,492; Nov. 13.
Nicholson, Griffith C. (See Ackerman, E. W., and Nicholson.)
Nickels, James, Silvis, Ill. Portable-machine frame. 1,691,732; Nov. 13.
Nightingale, Robert J., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Terminal clamp for storage batteries. 1,691,079; Nov. 13.
Nilson, Olof G., Chicago, Ill., assignor to Press Cushion Co. Punch press. 1,691,667; Nov. 13.
Noble, Warren, and L. V. Pittman, Detroit, Mich.; said Pittman assignor to said Noble. Hydraulic actuating means. 1,691,896; Nov. 13.
Norco Mfg. Co. (See Clark, Rex S., assignor.)
Nordin, Nils A., Seldovia, Alaska. Camera support and manipulator. 1,691,733; Nov. 13.
Norman, Mack D. (See Brooks, H. I., and Norman.)
Norstrom, Nils E., Chicago, Ill. Party-line telephone exchange. 1,691,080; Nov. 13.
North East Electric Company. (See Adams, Harry A., assignor.)
North East Electric Company. (See Lee, T. L., and Rohr, assignors.)
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Norvelle, Joseph J., Pittsfield, Mass. Display case or similar article. Des. 76,888; Nov. 13.
Nowak, Emma, Brooklyn, N. Y., Protector for backs of shoes. 1,691,582; Nov. 13.
Nu-Way Corporation, The. (See Braden, Marshall H., assignor.)
Nyman, Alexander, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,691,901; Nov. 13.
Nyquist, Harry. (See Clark, A. B., Nyquist, and Gannett.)

Oakland Machinery Company. (See Farum, E. P., and Specht, assignors.)
Ober, Raymond E., Crosby, Minn. Peat fuel. 1,691,734; Nov. 13.
Oberschmidt, Frederick H., Cleveland, Ohio, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electrical controller. 1,691,735; Nov. 13.
Oden, Eugene R., Lankershim, Calif. Sealing expansion joints. 1,691,402; Nov. 13.
Ogilvie, William, Edgecliff, Sydney, New South Wales, Australia. Cover for dental drill handpieces. 1,691,823; Nov. 13.
Ohio Brass Company, The. (See Austin, Arthur O., assignor.)
Ohmer, Frederick L., assignor to J. F. Ohmer, Dayton, Ohio. Speed-controlling device for motor vehicles. 1,691,668; Nov. 13.
Ohmer, John F. (See Ohmer, Frederick L., assignor.)
O'Leary, C. M. (See Green, Henry M., assignor.)
Oliver Chilled Plow Works. (See Dewend, William D., assignor.)
Olson, Albert S. N., St. Louis, Mo. Printing press. 1,691,299; Nov. 13.
O'Neill, Frank, Toledo, Ohio. Jar lid. 1,691,403; Nov. 13.
Oppenheim, Ferdinand S., New York, N. Y. Container. 1,691,736; Nov. 13.
Ormont, Bernard, Associates, Inc. (See Ormont, Bernard, assignor.)
Ormont, Bernard, assignor to Bernard Ormont Associates, Inc., New York, N. Y. Process of and apparatus for producing gasoline and other light hydrocarbons from heavier hydrocarbons. 1,691,300; Nov. 13.
Osann, Frederick, Company. (See Lyons, Robert L., assignor.)
Osborn, Henry C., assignor to The American Multigraph Company, Cleveland, Ohio. Printing machine having a changeable form. 1,691,301; Nov. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,691,405; Nov. 13.
Osgood, Charles F., Claremont, N. H., assignor Sullivan Machinery Company. Rock drill. 1,691,406; Nov. 13.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,691,407; Nov. 13.
Osgood, Walter P., Malden, assignor to Boston Machine Works Company, Lynn, Mass. Seam-pressing machine. 1,691,493; Nov. 13.
Oskrit, Frank, Pittsfield, Mass. Pipe and plate connection. 1,691,609; Nov. 13.
Ostendorf, William J., Aurora, Ill. Musical instrument. 1,691,669; Nov. 13.
Ostman, Nils. (See Gerlach, O., and Ostman.)
Otis, Charles M., Rochester, N. Y., and F. J. Couch, Cincinnati, assignors to The American Laundry Machinery Company, Norwood Station, Cincinnati, Ohio. Safety device for overdriven extractors. 1,691,122; Nov. 13.
Overman, Edward, Los Angeles, Calif. Land leveler. 1,691,854; Nov. 13.
Oxford Varnish Corporation. (See Casto, Lloyd V., assignor.)
Pacent Electric Co. (See Goudy, Carl F., assignor.)
Pacz, Aladar, East Cleveland, Ohio. Refining metals and alloys. 1,691,207; Nov. 13.
Pajeau, Charles H., assignor to The Toy Tinkers, Inc., Evanston, Ill. Necktie rack. 1,691,123; Nov. 13.
Paley, Lewis A., Manhasset, N. Y. Soap-molding apparatus. 1,691,899; Nov. 13.
Palmer, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Attachment for looms. 1,691,124; Nov. 13.
Palmer, Delos M., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Diesel electric locomotive. 1,691,249; Nov. 13.
Palmer, Walter T., Des Moines, Iowa. Timing device. 1,691,408; Nov. 13.
Paramount Rubber Consolidated, Inc. (See Roberts, F. T., and Eldon, assignors.)
Parker, James S., Corsicana, Tex. Plow. 1,691,824; Nov. 13.
Parks, Ostrander J., River Forest, Ill., assignor to General American Tank Car Corporation, Chicago, Ill. Valve-equipped container. 1,691,670; Nov. 13.
Parks, W. H., et al. (See McMurtry, John, assignor.)
Payn, Harold J., Weybridge, assignor to Vickers Limited, Westminster, England. Automatic gun carried by aircraft. 1,691,494; Nov. 13.
Payn, Harold J., Weybridge, assignor to Vickers Limited, Westminster, England. Automatic gun carried by aircraft. 1,691,495; Nov. 13.
Pearson, Charles, assignor to International Harvester Company, Chicago, Ill. Transport truck. 1,691,583; Nov. 13.
Pedersen, Carl E., Borg, Ostre Aker, near Oslo, Norway. Heating stove. 1,691,208; Nov. 13.
Peek, Clifford F., Chesterton, assignor of one-half to C. A. Ball, Wheeler, Ind. Method and apparatus for opening sheet packs. 1,691,250; Nov. 13.
Penn Machine Company. (See Haulton, Thomas, assignor.)
Penny, John H., Fountain City, Ind. Grain and seed cleaner. 1,691,902; Nov. 13.
Perrot, Henri, Paris, France, assignor to Bendix Corporation, Chicago, Ill. Vehicle brake mechanism. 1,691,584; Nov. 13.
Pescara, Raul P., Paris, France. Fluid-actuated compressor. 1,691,737; Nov. 13.
Peterson, Adolphe C., Minneapolis, Minn. Fuel-injection engine. 1,691,302; Nov. 13.
Petroleum Sand Products Corporation. (See Schwarz, Alfred, assignor.)
Pfleger, Charles T. (See Adams, W. L., and Pflueger.)
Philadelphia Storage Battery Company. (See Holland, Walter E., assignor.)
Phillippi, Arthur K., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Detector. 1,691,358; Nov. 13.
Phipps, Harve H., et al. (See Fibiger, Augustus F., assignor.)
Pierce, Raymond C., St. Louis, Mo. Alarm of variable intensity. 1,691,081; Nov. 13.
Pierce, Robert E. (See Morrill, P. E., and Pierce.)
Pierson, Edwin. (See Bentley, Joseph, assignor.)
Pietzsch, Frank H., and S. H. Campbell, assignor to Western Railway Equipment Company, St. Louis, Mo. Retaining-valve holder. 1,691,784; Nov. 13.
Pittman, Leon V. (See Noble, W., and Pittman.)
Podestá, Ovidio R., Buenos Aires, Argentina. Supporting device for socks and the like. 1,691,082; Nov. 13.
Polisena, Bernardo, and H. Campedel, New York, N. Y. Tire tool. 1,691,855; Nov. 13.
Polydoroff, Wladimir J., assignor to Johnson-Williamson Laboratories, Inc., Chicago, Ill. Transformer. 1,691,125; Nov. 13.
Porath, Carl A., assignor to Kokomo Steel and Wire Company, Kokomo, Ind. Wire-fence machine. 1,691,166; Nov. 13.
Porter, Howard K., Ridgewood, N. J., assignor to General Motors Corporation, Detroit, Mich. Journal box. 1,691,303; Nov. 13.
Postman, Abraham L., Brooklyn, N. Y. Making shoes. 1,691,167; Nov. 13.
Powell, Antoinette M. (See Powell, George G., assignor.)
Powell, George G., assignor to A. M. Powell, New York, N. Y. Salvaging apparatus. 1,691,738; Nov. 13.
Press Cushion Co. (See Nilson, Olof G., assignor.)
Prosperity Company, The. (See Braun, Philip N., assignor.)
Prosperity Company, The. (See Clisson, Albert B., assignor.)
Prosperity Company, The. (See Davis, Ernest, assignor.)
Prosperity Company, The. (See Socia, A. J., and Daly, assignors.)
Pruitt, Harvey E., Fenton, Mich. Nut-tapping machine. 1,691,825; Nov. 13.
Pulkinghorn, William R., assignor to Spra-O-Sal Products, Inc., Los Angeles, Calif. Sanitary device. 1,691,359; Nov. 13.
Quinn, William A. (See McDonnell, Anthony F., assignor.)
Railway and Industrial Engineering Company. (See Beattie, David, assignor.)
Railway Motors Corporation. (See Melcher, Lee W., assignor.)
Ramar Syndicate, Inc. (See Witham, George S., sr., assignor.)
Rand, Charles A. A., assignor to International Harvester Company, Chicago, Ill. Feeding means for centrifugal grinders. 1,691,585; Nov. 13.
Rank, Henry W. (See Rank, John and H. W.)
Rank, John and H. W., Minneapolis, Minn. Traffic signal. 1,691,126; Nov. 13.
Ransome Concrete Machinery Company. (See Berle, Helge A., assignor.)
Rapsevez, Joseph, Philadelphia, Pa.. Musical instrument. 1,691,168; Nov. 13.
Rathbone, Thomas C., Moore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Grid leak. 1,691,251; Nov. 13.
Reagan, Maurice E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,691,360; Nov. 13.
Red Sun Products Co. (See Goldman, Sigmund L., assignor.)
Redmond, Albert G., Indianapolis, Ind., assignor to Marvel Carbureter Company, Flint, Mich. Charge forming and injecting device for internal-combustion engines. 1,691,127; Nov. 13.
Redmond, Albert G., assignor to Marvel Carbureter Company, Flint, Mich. Fuel-feeding system for motor vehicles. 1,691,128; Nov. 13.
Reece, Franklin A. (See Reece, John and F. A.)
Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,691,610; Nov. 13.
Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,691,611; Nov. 13.
Reece, John, Boston, and F. A. Reece, Brookline, assignors to Reece Transmission Company, Boston, Mass. Power transmission. 1,691,612; Nov. 13.
Reece Transmission Company. (See Reece, John and F. A., assignors.)
Reeves, Milton O., deceased, Columbus, Ind.; F. B. Reeves, administrator de bonis non, assignor to Reeves Pulley Company, Columbus, Ind. Driving belt. 1,691,871; Nov. 13.
Reeves, Paul B., administrator de bonis non. (See Reeves, Milton O.)





Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Transmission belt. 1,691,892; Nov. 13.
Reeves Pulley Company. (See Reeves, Milton O., assignor.)
Reeves Pulley Company. (See Reeves, Paul B., assignor.)
Reid, George C., Cranford, N. J., assignor to American Can Company, New York, N. Y. Shoe-polish box. 1,691,304; Nov. 13.
Reilly, Alfred F., Attleboro, assignor to Evans Case Company, North Attleboro, Mass. Salt or pepper shaker. Des. 76,889; Nov. 13.
Reinecke, John P., assignor to The Hoffman Heater Company, Lorain, Ohio. Burner. 1,691,169; Nov. 13.
Reisbach, Gustave B., San Diego, Calif., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric switch. 1,691,252; Nov. 13.
Reliable Electric Co. (See Cook, Wallace L., assignor.)
Remensnyder, Orrin, Saginaw, Mich. Dental massage device. 1,691,785; Nov. 13.
Remington Typewriter Company. (See Going, George G., assignor.)
Rentschler, Harvey C., East Orange, N. J., assignor to Westinghouse Lamp Company. Electron-discharge device with oxide-coated filament. 1,691,446; Nov. 13.
Replogle, John R., assignor, by mesne assignments, to Electric Refrigeration Corporation, Detroit, Mich. Compressor. 1,691,305; Nov. 13.
Reshaw, George O., St. Joseph, Mich. Fruit-basket lid. 1,691,409; Nov. 13.
Reynolds, Drew, and H. L. Simpson, Denver, Colo. Anti-glare shield for automobile lamps. 1,691,209; Nov. 13.
Reynolds, Joy S., Detroit, Mich. Vehicle brake. 1,691,083; Nov. 13.
Rhodes, Charles J., Wakefield, England. Press for drawing sheet metal. 1,691,496; Nov. 13.
Richardson, Rodney G., Chicago, and M. L. Nelson, Park Ridge, assignors, by mesne assignments, to Automatic Electric, Inc., Chicago, Ill. Automatic telephone system. 1,691,410; Nov. 3.
Riddell, John T., Evanston, Ill. Apparatus for making inflatable ball covers. 1,691,671; Nov. 13.
Riddell, John T., Evanston, Ill. Forming inflatable-ball covers. 1,691,672; Nov. 13.
Ridgway, Edward J., Hempstead, assignor to Meakin & Ridgway, Inc., New York, N. Y. Covered dish or similar article. Des. 76,890; Nov. 13.
Rile, Frederick C., Chicago, Ill. Cuff button or the like. Des. 76,891; Nov. 13.
Rile, Frederick C., Chicago, Ill. Cuff button or the like. Des. 76,892; Nov. 13.
Riley Stoker Corporation. (See Beers, Royce L., assignor.)
Rivanov, Felix, Chicago, Ill., assignor to The Anderson Company, Gary, Ind. Radiator-cap ornament. Des. 76,893; Nov. 13.
Roach, David J. (See Roach, William E., and D. J.)
Roach, William E., and D. J. Roach, Owego, N. Y. Arm rest. 1,691,613; Nov. 13.
Robbins, Maurice, Boston, Mass. Collar. 1,691,856; Nov. 13.
Roberts, Edmund W., Cincinnati, Ohio. Toaster. 1,691,361; Nov. 13.
Roberts, Fred T., Yonkers, and A. J. Eldon, Mount Vernon, assignors to Paramount Rubber Consolidated, Inc., Tuckahoe, N. Y. Overshoe and making same. 1,691,253; Nov. 13.
Robinson, Harry J., Boston, Mass., assignor to The Mosler Safe Company, Hamilton, Ohio. Night safe depository. Des. 76,895; Nov. 13.
Robinson, Joseph E., Topeka, Kans. Bottle-carrying device. 1,691,254; Nov. 13.
Rohe, Johannes M. (See Rohe, Louis H. F. and S., assignors.)
Rohe, Louis H. F. and S., assignors of one-fourth to J. M. Rohe, Mirando City, Tex. Pressure regulator. 1,691,673; Nov. 13.
Rohe, Samuel. (See Rohe, Louis H. F. and S.)
Rohr, Henry C. (See Lee, T. L., and Rohr.)
Rohrbach Metall-Flugzeugbau G. m. b. H. (See Tank, K., and Frydag, assignors.)
Roney, Emil H., Brooklyn, assignor to R. M. Haan Candy Co., Inc., New York, N. Y. Box. Des. 76,894; Nov. 13.
Roraback, Earle H. (See Myers, William M., assignor.)
Rosen, Martin, Chicago, Ill. Package. 1,691,306; Nov. 13.
Rosenstein, Paul. (See Fisher, Bertram, assignor.)
Rosenthal, August, assignor to Rosenthal Mfg. Co., West Allis, Wis. Power control device. 1,691,586; Nov. 13.
Rosenthal Mfg. Co. (See Rosenthal, August, assignor.)
Ross, Oscar A., New York, N. Y. Musical instrument. 1,691,826; Nov. 13.
Rossi, Paul A., Campbell, Ohio. Attachment for paint-brushes. 1,691,857; Nov. 13.
Roth, Charles C., and D. A. Campbell, assignors to The Denver Tent & Awning Company, Denver, Colo. Tent. 1,691,411; Nov. 13.
Roth, Robert T., Philadelphia, Pa. Dental instrument. 1,691,786; Nov. 13.
Roule, John B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,691,129; Nov. 13.
Roule, John B., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Safety device. 1,691,130; Nov. 13.
Rowe, George E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Transfer device for glassware. 1,691,497; Nov. 13.
Ruetz, August, and R. G. Dallmann, Milwaukee, Wis. Towel support. 1,691,412; Nov. 13.
Ruggiero, A. L., et al. (See Galterio, Elia, assignor.)
Rumpel, Harvey H., assignor to Smith Engineering Works, Milwaukee, Wis. Crusher. 1,691,553; Nov. 13.
Rushmore, Samuel W., Plainfield, N. J. Steam-cooling apparatus. 1,691,614; Nov. 13.
Rychtarik, Richard, assignor to The Superior Foundry Company, Cleveland, Ohio. Taboret. Des. 76,897; Nov. 13.
Ryder, Charles D., Covington, Ky., assignor to The Cincinnati Victor Company, Cincinnati, Ohio. Configurated reflector. 1,691,131; Nov. 13.
Ryerson, Eugene H., Worcester, Mass. Dish drainer. 1,691,858; Nov. 13.
Ryerson, Peter E., Holtville, Calif. Drink stand. Des. 76,896; Nov. 13.
Ryon, Eppa H., Pasadena, Calif., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lay for looms. 1,691,132; Nov. 13.
Sachs, Solomon, assignor, by mesne assignments, to Utilities Corporation of Maryland, Washington, D. C. Nozzle. 1,691,498; Nov. 13.
Safety Car Heating & Lighting Company, The. (See Von Ohlsen, Louis H., assignor.)
Sakurai, Hideichi and T., Seattle, Wash. Knitting frame. 1,691,527; Nov. 13.
Sakurai, Tarano. (See Sakurai, Hideichi and T.)
Salterini, John B., New York, N. Y. Flower stand. Des. 76,898; Nov. 13.
Salterini, John B., New York, N. Y. Flower stand. Des. 76,899; Nov. 13.
Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,691,413; Nov. 13.
Sanymetal Products Company, The. (See Carpenter, Robert F., assignor.)
Saville, Willie, Liverpool, England, assignor to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,691,554; Nov. 13.
Scarlett, Arthur A., Hamilton, Ontario, Canada, assignor, by mesne assignments, to International Harvester Company, Chicago, Ill. Tandem disk harrow. 1,691,587; Nov. 13.
Schaffer, Walter. (See von Arco, G., Schaffer, and Moser.)
Schatz, Herman A. (See Smith, William F., assignor.)
Schelben, Fred, Greenville, Miss. Truck body. 1,691,859; Nov. 13.
Scherbaum, Bernhard, Wedel, Germany. Grinding and pulverizing mill. 1,691,210; Nov. 13.
Schiesser, Max, Baden, Switzerland. Rectifier and connection therefor. 1,691,447; Nov. 13.
Schimpff, Eugene, Scranton, Pa. Headlight reflector. 1,691,307; Nov. 13.
Schinke, Edward C., assignor to The Accountograph Company, St. Louis, Mo. Calculating machine. 1,691,555; Nov. 13.
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Door latch. 1,691,528; Nov. 13.
Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Key lock. 1,691,529; Nov. 13.
Schlaich, Herman, Brooklyn, N. Y. Temperature-indicating device. 1,691,133; Nov. 13.
Schlaich, Herman, Brooklyn, N. Y. Small-bore tubing and method and apparatus for the making of same. 1,691,134; Nov. 13.
Schlaich, Herman, Long Island City, N. Y. Instrument. 1,691,135; Nov. 13.
Schlaich, Herman, Long Island City, N. Y. Indoor-outdoor thermometer. 1,691,136; Nov. 13.
Schliemann, Martin. (See Doerinckel, F., and Schliemann.)
Schloemann Aktiengesellschaft. (See Löwy, Ludwig, assignor.)
Schmick, Hans, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, Germany. Determining the contents of a gas. 1,691,138; Nov. 13.
Schmid, William, assignor to Caskey-Dupree Manufacturing Company, Coldwater, Mich. Combined lighting and ignition system for automotive vehicles. 1,691,800; Nov. 13.
Schmidt, Louis A., Brooklyn, assignor to R. Hoe & Co., Inc., New York, N. Y. Plate clamp. 1,691,556; Nov. 13.
Schmidt, William F., assignor to All Metal Products Company, Wyandotte, Mich. Toy machine gun. 1,691,170; Nov. 13.
Schmidt, William H. (See Mueller, T. C., Buchholz, Dallmann, Moerschel, Dallmann, Kujawski, and Schmidt.)
Schoonmaker, James M., jr., Sewickley, and D. T. Gleason, Coraopolis, Pa., assignors to Standard Steel Spring Company. Manufacture of springs. 1,691,211; Nov. 13.
Schuchert, Otto A., Elgin, Ill. Combination lamp and smoker's stand. 1,691,137; Nov. 13.
Schückher, Albert, Vienna, Austria. Apparatus for purifying and moistening air. 1,691,827; Nov. 13.
Schulz, Arthur E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working mechanism. 1,691,588; Nov. 13.

Schur, Milton O., assignor to Brown Company, Berlin, N. H. Method and apparatus for testing the spread of ink. 1,691,739; Nov. 13.
Schwartz, Alfred, Montclair, N. J., assignor to Petroleum Sand Products Corporation. Treating hydrocarbons. 1,691,085; Nov. 13.
Schwartz, Frank, New York, N. Y. Device for indicating density of liquids. 1,691,084; Nov. 13.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Bench. Des. 76,900; Nov. 13.
Schwartz, Roland S., sr., Huntington, W. Va. Mop wringer. 1,691,086; Nov. 13.
Schweyer, Daniel H., Easton, Pa. Automatic train control. 1,691,499; Nov. 13.
Scofield, Theodore J. (See Sparks, W., Scofield, Johnson, and Billig.)
Scottish Dyes Limited. (See Thomas, John, assignor.)
Scovill Manufacturing Company. (See Boden, G., and King, assignors.)
Seaborne, Charles R., Appleton, Wis. Beater for paper stock. 1,691,308; Nov. 13.
Seaholm, Ernest W., Detroit, and H. M. Denyes, Saginaw, assignors to General Motors Corporation, Detroit, Mich. Steering-wheel-control assembly. 1,691,139; Nov. 13.
Searle, Alfred J. (See Lockwood, D., and Searle.)
Seidel, Joseph F., Euclid, Ohio. Thermostatically-controlled electric circuits. 1,691,448; Nov. 13.
Selah, Howard A., assignor to Erie Malleable Iron Company, Erie, Pa. Conduit fitting. 1,691,235; Nov. 13.
Sengebusch, Hans, assignor to Automatic Electric Inc., Chicago, Ill. Switching mechanism. 1,691,256; Nov. 13.
Sharp, Jefferson M., Oil City, Pa. Valve for pumps. 1,691,449; Nov. 13.
Shaw, Cecil, Huddersfield, England. Dyeing of wool and/or silk. 1,691,500; Nov. 13.
Shelton, William G., St. Louis, Mo. Waving hair. 1,691,589; Nov. 13.
Sherman, Abraham, Brooklyn, N. Y. Hand-bag frame. Des. 76,901; Nov. 13.
Sherman, John C., assignor to Brown Company, Portland, Me. Margarine composition. 1,691,087; Nov. 13.
Sherrerd, Francis H., East Orange, assignor to Newark Concrete Pipe Co., Newark, N. J. Concrete pipe or conduit. 1,691,590; Nov. 13.
Shipman, William P., assignor to Blaw-Knox Company, Pittsburgh, Pa. Welding apparatus. 1,691,501; Nov. 13.
Shoemaker, James E., Philadelphia, Pa. Automatic controlling and timing mechanism for full-fashioned-hosiery machines. 1,691,740; Nov. 13.
Sholty, E. V., et al. (See Crumley, Frank M., assignor.)
Shonnard, Harold W., Montclair, assignor to Elevator Supplies Company, Inc., Hoboken, N. J. Door-control means for elevators. 1,691,787; Nov. 13.
Shupert, Frank W., Sanford, Fla. Stay-bolt construction. 1,691,828; Nov. 13.
Siemens & Halske, Aktiengesellschaft. (See Schmick, Hans, assignor.)
Sigrist, Fredrick, Oxshott, and S. Camm, Long Ditton, England. Skeleton structure such as aircraft fuselage. 1,691,362; Nov. 13.
Silbaugh, George W., Charleroi, Pa. Nut. 1,691,829; Nov. 13.
Silvers, Silas, Detroit, Mich. Tuning attachment for pipe-organ pipes. 1,691,674; Nov. 13.
Simmons Company. (See Busch, Charles H., assignor.)
Simmons Company. (See Harman, Frank B., assignor.)
Simmons Company. (See Kusterle, Frank, assignor.)
Simon, Irwin B., San Francisco, Calif. Hat. Des. 76,902; Nov. 13.
Simpson, Harry L. (See Reynolds, D., and Simpson.)
Sims, Abraham M., Brooklyn, N. Y. Hand bag and similar article of luggage. 1,691,872; Nov. 13.
Sklar, Samuel B., Minneapolis, Minn. Smoker's cabinet. 1,691,212; Nov. 13.
Slater, Guy P., Sand Springs, Okla. Throwing-off device. 1,691,830; Nov. 13.
Slay, Furman Q., Weathersby, Miss. Sanitary toothpick holder. 1,691,831; Nov. 13.
Slayton, Frank A., Waskom, Tex. Glass-tube cutter. 1,691,530; Nov. 13.
Sluss, James A., Knoxville, Tenn. Adjustable mail-box support. 1,691,531; Nov. 13.
Smith, Arthur P., and S. Eichel, assignors to Harvard Auto Body Company, Inc., New York, N. Y. Automobile body. 1,691,557; Nov. 13.
Smith, E. Payson. (See Strid, Sven J., assignor.)
Smith, Elda G., assignor to Crouse-Hinds Company, Syracuse, N. Y. Drop-cord rosette. 1,691,675; Nov. 13.
Smith Engineering Works. (See Rumpel, Harvey H., assignor.)
Smith, Ernest R., San Francisco, Calif. Dental impression tray. 1,691,676; Nov. 13.
Smith, George W., Chicago, Ill. Telephone support. 1,691,213; Nov. 13.
Smith, Lester C., Springdale, assignor of one-half to N. J. Thompson, Hartford, Conn. Fuel vaporizer. 1,691,615; Nov. 13.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Combined valve handle and housing. Des. 76,903; Nov. 13.
Smith, Sherman, assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Combined valve handle and housing. Des. 76,904; Nov. 13.
Smith, Talcott P., Washington, D. C. Lubrication system. 1,691,214; Nov. 13.
Smith, William F., assignor of one-half to H. A. Schatz, Poughkeepsie, N. Y. Internal-combustion engine. 1,691,616; Nov. 13.
Smith, William H., San Francisco, Calif. Binder for loose leaves. 1,691,257; Nov. 13.
Smith, Willoughby S., Benchams, Newton Poppleford, H. J. Garnett, Sevenoaks, and J. A. Holden, Gildea Park, England. Loaded electric conductor. 1,691,309; Nov. 13.
Snyder, Edward H., and W. D. Green, assignors to Combined Metals Reduction Company, Bauer, Utah. Concentration of ores. 1,691,310; Nov. 13.
Snyder, George C., Long Island City, assignor to Kaelma Manufacturing Company, Inc., New York, N. Y. Carrying bag and handle therefor. 1,691,741; Nov. 13.
Snyder, Hiram L., St. Louis, Mo. Vehicle direction signal. 1,691,502; Nov. 13.
Socia, Alexander J., and J. P. Daly, Syracuse, N. Y., assignors, by mesne assignments, to The Prosperity Company, Inc. Mechanism for pressing machines having start and stop motors. 1,691,677; Nov. 13.
Société Anonyme: Cartoucherie Francaise. (See Gabel, Charles, assignor.)
Société d'Etudes Chimiques pour l'Industrie. (See Breslauer, J., and de Luserna, assignors.)
Société Industrielle des Matieres Plastiques. (See Barthélemy, Henri, assignor.)
Society of Chemical Industry in Basle. (See Goeschke, Armin, assignor.)
Soulis, Harold A. and W. T., New York, N. Y. Piston and producing same. 1,691,450; Nov. 13.
Soulis, Wilbur T. (See Soulis, Harold A. and W. T.)
Sparks, William. (See White, G. A., and Sparks.)
Sparks, William, assignor to The Sparks-Withington Company, Jackson, Mich. Signaling device. 1,691,363; Nov. 13.
Sparks, William, T. J. Scofield, L. E. Johnson, and F. W. Billig, assignors to The Sparks-Withington Company, Jackson, Mich. Signaling device. 1,691,215; Nov. 13.
Sparks-Withington Company, The. (See Sparks, William, assignor.)
Sparks-Withington Company, The. (See Sparks, W., Scofield, Johnson, and Billig, assignors.)
Sparks-Withington Company, The. (See White, G. A., and Sparks, assignors.)
Specht, Edward H. (See Farum, E. P., and Specht.)
Spencer, Alvin W., and F. A. Falconer, Weslaco, Tex., said Spencer assignor to said Falconer. Basket top. 1,691,591; Nov. 13.
Spengler, Oskar, Dessau in Anhalt, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Solder for aluminum. 1,691,532; Nov. 13.
Spery, Philmore F., Chicago, Ill., assignor to W. Freeman, Des Moines, Iowa. Extension trunk. 1,691,788; Nov. 13.
Spina, Salvatore, and A. Cook, New York, N. Y. Vending machine. 1,691,592; Nov. 13.
Spra-O-Sal Products, Inc. (See Pulkinghorn, William R., assignor.)
Sprenger, Dr. Otto, Patentvertwertung Jirotka mit beschränkter Haftung. (See Jirotka, Bohumil, assignor.)
Standard Sanitary Manufacturing Company. (See Smith, Sherman, assignor.)
Standard Steel Spring Company. (See Schoonmaker, J. M., jr., and Gleason, assignors.)
Standard Thermometer Company. (See Barrett, Albert L., assignor.)
Starke, August L., Brookhaven, N. Y., assignor to Insulation Manufacturing Company, Inc. Terminal block. 1,691,088; Nov. 13.
Staynew Filter Corporation. (See Dollinger, Lewis L., assignor.)
Stead, Lawrence A. (See Carlson, E. E., and Stead.)
Stebbins, William H. (See Hussey, C. L., and Stebbins.)
Steele, Lawrence C., Baltimore, Md. Method and apparatus for handling sheet material. 1,691,503; Nov. 13.
Steinhelfer, Jacob F., Toledo, Ohio. Washing machine. 1,691,089; Nov. 13.
Sterling Jewelry Company, The. (See Cramer, Harry I., assignor.)
Stevens, Delmar A., Chicago, Ill. Shoe box. 1,691,533; Nov. 13.
Stevens, J. & E., Company. (See Frisbie, Russell A., assignor.)
Stewart Manufacturing Corporation. (See Jerome, George C., assignor.)
Stewart-Warner Speedometer Corporation. (See Muzzy, William H., assignor.)
Stewart-Warner Speedometer Corporation. (See Wood, Andrew C., assignor.)
Stout, Harry S., Huntington, W. Va. Dispensing container. 1,691,861; Nov. 13.
Strahle, A. H., et al. (See McMurtry, John, assignor.)
Streeter, Elford D. (See Henry, R. W., and Streeter.)
Strid, Sven J., assignor, by mesne assignments, to E. P. Smith, Chicago, Ill. Safety lock. 1,691,893; Nov. 13.
Stringer, James. (See King, A. C., and Stringer.)
Strobel, John, Burlingame, Calif. Wrench. 1,691,216; Nov. 13.
Stroud, Charles M., assignor of one-half to L. H. Fawkes, Minneapolis, Minn. Oil-burning apparatus. 1,691,311; Nov. 13.



Struthers, James A., assignor to Strutwear Knitting Company, Minneapolis, Minn. Stocking. Des. 76,905; Nov. 13.
Strutwear Knitting Company. (See Struthers, James A., assignor.)
Stuebing, William, jr., Cincinnati, Ohio. Exercising machine. 1,691,900; Nov. 13.
Sturtevant, B. F., Company. (See Allen, George W., assignor.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sulzer Freres Societe Anonyme. (See Zbinden, Eugen, assignor.)
Superheater Company, The. (See Broido, Benjamin N., assignor.)
Superior Foundry Company, The. (See Rychtarik, Richard, assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Swanlind, Sven G., Chicago, Ill. Window scaffold. 1,691,678; Nov. 13.
Sweet, Ida E. (See Sweet, James C., assignor.)
Sweet, James C., assignor of one-half to I. E. Sweet, Flint, Mich. Auto headlight dimmer. 1,691,832; Nov. 13.
Tadd, Roy W., Walnut Park, Calif. Valve connecter for delivery tubes. 1,691,364; Nov. 13.
Tamele, Karl, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,691,258; Nov. 13.
Tamele, Karl, Berlin-Wilmersdorf, Germany, assignor to Westinghouse Electric & Manufacturing Company. Annealing furnace. 1,691,259; Nov. 13.
Tank, Kurt, Potsdam, near Berlin, and K. Frydag, Schmargendorf, near Berlin, assignors to the firm: Rohrbach Metall-Flugzeugbau, G. m. b. H., Berlin, Germany. Aircraft with pusher screw. 1,691,593; Nov. 13.
Telber, Charles H. A., St. Louis, Mo. Spectacles. 1,691,789; Nov. 13.
Templin, Ellis W., Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Running gear for motor vehicles. 1,691,742; Nov. 13.
Tennant, G. H., Company. (See Tyler, Roy D., assignor.)
Tevander, Swan N., Maywood, Ill. Shipping tag. 1,691,090; Nov. 13.
Texas Company, The. (See Wolcott, Edson R., assignor.)
Thayer, Eugene A., Pontiac, Ill. Prosthetic dentistry. 1,691,594; Nov. 13.
Thew Shovel Company, The. (See Wilson, Emery J., assignor.)
Thomas, Horace T., Lansing, Mich. Windshield for automobiles. 1,691,812; Nov. 13.
Thomas, John, assignor to Scottish Dyes Limited, Carlisle, England. Producing anthraquinone sulphonic acids. 1,691,679; Nov. 13.
Thompson, Elmer O., Tompkinsville, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,691,091; Nov. 13.
Thompson, N. Julien. (See Smith, Lester C., assignor.)
Thompson Products, Incorporated. (See Bissell, Richard E., assignor.)
Thompson, Thomas J., Sunderland, England. Link for use in coal-cutting machines and the like. 1,691,680; Nov. 13.
Thomson, James, assignor to Mavor and Coulson, Limited, Glasgow, Scotland. Conveyor of the belt type. 1,691,681; Nov. 13.
Thomson, John M., Davenport, Iowa. Folding bed. 1,691,260; Nov. 13.
Thomson, Robert H., Kingston-on-Thames, and H. S. Lawrence, Ilford, assignors to United Water Softeners Limited, London, England. Apparatus for the softening or purifying of water or for carrying out processes based upon exchange reactions. 1,691,862; Nov. 13.
Thorne, Carl B., Hawkesbury, Ontario, Canada. Process and apparatus for producing wood pulp. 1,691,682; Nov. 13.
Thorner, Robert, Asheville, N. C. Antiskid device for motor vehicles. 1,691,140; Nov. 13.
Thornton, John E., West Hampstead, London, England. Cinematograph spool case. 1,691,414; Nov. 13.
Tingue Manufacturing Company. (See Howard, Henry, assignor.)
Tissue Company, The. (See King, James W., assignor.)
Titus, Welmer H., New York, N. Y. Exercising device. 1,691,092; Nov. 13.
Tolman, Roy D., Worcester, Mass. Skate-blade protector. 1,691,558; Nov. 13.
Toman, E., & Company. (See Toman, Edward, assignor.)
Toman, Edward, assignor to E. Toman & Company, Chicago, Ill. Diaphragm and mounting therefor. 1,691,093; Nov. 13.
Tomlison, Joe L., et al. (See Hitchcock, Guy F., assignor.)
Toohey, Frank, South Acton, assignor to Harding Engineering Company, East Boston, Mass. Distributing device. 1,691,313; Nov. 13.
Toole, John, Kirkland Lake, Ontario, Canada. Shoemaker's last. 1,691,415; Nov. 13.
Topp, Mathias, Gjovik, assignor to O. Mustad & Son, Oslo, Norway. Machine for the manufacture of fishhooks. 1,691,534; Nov. 13.
Townsend, Herbert A., Stockton, Ill. Automatic ensilage distributor for silos. 1,691,683; Nov. 13.
Toy Tinkers, Inc., The. (See Pajeau, Charles H., assignor.)
Toyoda, Sakichi, Nagoya, Japan. Shedding motion for circular looms. 1,691,314; Nov. 13.
Tromanhauser, Harry W., Waterloo, Iowa. Safety lighting device for vehicles. 1,691,684; Nov. 13.
Tropic-Aire, Incorporated. (See Caesar, Orville S., assignor.)
True, Lionel, Springville, N. Y. Apparatus for mixing dry and liquid materials. 1,691,535; Nov. 13.
Truscon Steel Company. (See Kahn, Julius, assignor.)
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in regularly-moving transferrer. 1,691,141; Nov. 13.
Twichell, Wallace B. (See Twichell, Walter E., and W. B.)
Twichell, Walter E., San Francisco, and W. B. Twichell, St. Helena, Calif. Dispensing device. 1,691,171; Nov. 13.
Tyler, Roy D., St. Paul, assignor to G. H. Tennant Company, Minneapolis, Minn. Bottle crate. 1,691,617; Nov. 13.
Uellendahl, Arthur W., Jamaica, assignor to Barthels Manufacturing Company, Glendale, N. Y. Shoe and like lace and tip therefor. 1,691,451; Nov. 13.
Uhlig, Charles M. (See Graham, W. D., and Uhlig.)
Ulmer, Gottlieb. (See Ulmer, Theodore and G.)
Ulmer, Theodore and G., Alpena, S. Dak. Holst. 1,691,685; Nov. 13.
Ulrich Planfiling Equipment Company. (See Ulrich, Roy E., assignor.)
Ulrich, Roy E., assignor to Ulrich Planfiling Equipment Company, Jamestown, N. Y. Planfile. 1,691,743; Nov. 13.
Union Oil Company of California. (See Funk, Ira B., assignor.)
Union Switch & Signal Company, The. (See Nettleton Lewis L., assignor.)
Union Switch & Signal Company, The. (See Wallace, Herbert A., assignor.)
United Milk Crate Company. (See Lion, Harold S., assignor.)
United Products Corporation. (See Biddle, Arthur, assignor.)
United Shoe Machinery Corporation. (See Cocozella, Anthony, assignor.)
United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)
United Shoe Machinery Corporation. (See Holmgren, Eric A., assignor.)
United Shoe Machinery Corporation. (See Roulo, John B., assignor.)
United States Chain & Forging Company. (See Nicholas, William, assignor.)
United States Glass Company. (See Keil, Charles R., assignor.)
United States Hame Company. (See Glaser, John M., assignor.)
U. S. Hoist & Body Company, The. (See Berry, George W., assignor.)
United Water Softeners Limited. (See Thomson, R. H., and Lawrence, assignors.)
Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Inertia-actuated weft detector on a transferrer arm. 1,691,142; Nov. 13.
Utilities Corporation of Maryland. (See Sachs, Solomon, assignor.)
Van Arsdel, Wallace B., assignor to Brown Company, Berlin, N. H. Pumping mechanism. 1,691,744; Nov. 13.
Van Auken, Lloyd E., Lemon Grove, Calif. Automatic weather strip for doors and the like. 1,691,315; Nov. 13.
Van Deventer, Harry R., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical condenser. 1,691,911; Nov. 13.
Van Hamerveld, John J. N., assignor to The Warner and Swasey Company, Cleveland, Ohio. Automatic single-spindle-chucking machine. 1,691,595; Nov. 13.
Van Sant, Robert H., Chicago, Ill. Toothbrush. 1,691,863; Nov. 13.
Van Veen, Anton, West Hartford, assignor to The Fuller Brush Company, Hartford, Conn. Machine for twisting wires with material therebetween. 1,691,094; Nov. 13.
Vanpel, Albert, Berlin-Grunewald, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Protecting high-tension lines against flashovers. 1,691,316; Nov. 13.
Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water regulator. 1,691,317; Nov. 13.
Veitch Manufacturing Company. (See Glore, Harry V., assignor.)
Vickers Limited. (See Payn, Harold J., assignor.)
Victor, John H., Chicago, Ill., assignor to Victor Manufacturing & Gasket Co. Sheet-packing rack. Des. 76,906; Nov. 13.
Victor Manufacturing & Gasket Co. (See Victor, John H., assignor.)
Vitreous Steel Products Company. (See Dyer, Brainerd, assignor.)
Vodicka, John, deceased, by Cinch Manufacturing Corporation, assignee, Chicago, Ill. Socket for curtain fasteners. Re17,134; Nov. 13.

Vogt, Clarence C., Pittsburgh, assignor to G. F. Bowman, Oakmont Borough, Pa. Mucin-solvent tooth paste. 1,691,504; Nov. 13.

Volker, Sylvia, Oak Park, Ill. Garment. 1,691,790; Nov. 13.

Von Arco, Georg W. Schaffer, and W. Moser, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Speed indicator and regulator for electric motors. 1,691,618; Nov. 13.

Von Ohlsen, Louis H., New Haven, Conn., assignor to the Safety Car Heating & Lighting Company. Electrical system of distribution. 1,691,095; Nov. 13.

Von Pein, Edward J., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Cash register. 1,691,416; Nov. 13.

Vorhies, Leroy, Denver, Colo. Hydraulic dredging mechanism. 1,691,686; Nov. 13.

Vosburg, Earl, Ada, Mich. Fastener. 1,691,833; Nov. 13.

Wagner Electric Corporation. (See Dick, Burns, assignor.)

Wagner Electric Corporation. (See Weichsel, H., and McCormick, assignors.)

Walden, Lester M., Chicago, Ill. Vehicle suspension means. 1,691,217; Nov. 13.

Waldorf Paper Products Company. (See Bache, Edmund, assignor.)

Waldron, John, Company. (See Waldron, William H., assignor.)

Waldron, William H., assignor to John Waldron Company, New Brunswick, N. J. Printing machine. 1,691,745; Nov. 13.

Walker Vehicle Co. (See Carroll, John G., assignor.)

Wallace, Herbert A., Edgewood, assignor to The Union Switch & Signal Company, Swissvile, Pa. Railway-traffic-controlling apparatus. 1,691,096; Nov. 13.

Walther, Martin, assignor to Det Norske Aktieselskab for Elektrokemisk Industri, Oslo, Norway. Electrode. 1,691,505; Nov. 13.

Ward, Benjamin O., Cheoah, N. C. Power-transmission means. 1,691,824; Nov. 13.

Ward, Thomas, New Lexington, Ohio. Automobile starter. 1,691,417; Nov. 13.

Ward, William E., Long Beach, Calif. Burglarproof sash fastener. 1,691,318; Nov. 13.

Warner and Swasey Company, The. (See Van Hamersveld, John J. N., assignor.)

Warren, Roscoe F., Los Angeles, Calif. Saddle. Des. 76,907; Nov. 13.

Warren, Stephen R., Dayton, Ohio. Air scoop. 1,691,218; Nov. 13.

Wasson, Robert B., Cranford, N. J. Piston ring and making the same. 1,691,746; Nov. 13.

Waters, Gilbert C., jr., assignor to The E. C. Brown Company, Rochester, N. Y. Spraying apparatus. 1,691,097; Nov. 13.

Watkins, James A., assignor, by mesne assignments, to American Blower Corporation, Detroit, Mich. Centrifugal fan. 1,691,319; Nov. 13.

Wattie, William M., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness motion for looms. 1,691,143; Nov. 13.

Watts, John S., Los Angeles, Calif. Pipe-line-sampling device. 1,691,687; Nov. 13.

Wayland, John T., and T. D. Jones, Kansas City, Mo. Automatic traffic signal. 1,691,791; Nov. 13.

Wayne Company. (See Baker, Linnaeus E., assignor.)

Weaver, Robert R., assignor to General American Tank Car Corporation, Chicago, Ill. Railway car. 1,691,873; Nov. 13.

Weichsel, Hans, and B. McCormick, assignors to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,691,747; Nov. 13.

Weissbrod, Emil, & Sons, Inc. (See King, F. A., and Bedford, assignors.)

Wellman Company. (See Anderson, Roland G., assignor.)

Wells, Daniel D., Albuquerque, N. Mex. Tool holder. 1,691,688; Nov. 13.

Welsh, James W., Providence, R. I., assignor to Bausch and Lomb Optical Company, Rochester, N. Y. Ophthalmic mounting. 1,691,596; Nov. 13.

West, Arthur J., Bethlehem, Pa. assignor to Bethlehem Steel Company. Valve. 1,691,689; Nov. 13.

Western Electric Company. (See Bandur, Adolph F., assignor.)

Western Electric Company. (See Blount, Harry, assignor.)

Western Electric Company. (See Crawford, Carrol A., assignor.)

Western Electric Company. (See Fay, Joseph W., assignor.)

Western Electric Company. (See Gauthier, Ernest, assignor.)

Western Electric Company. (See Grondahl Hans H. C., assignor.)

Western Electric Company. (See Ives, H. E., and Long, assignors.)

Western Electric Company. (See Mathes, Robert C., assignor.)

Western Electric Company. (See Schulz, Arthur E., assignor.)

Western Electric Company. (See Yancey, Thornton M. D., assignor.)

Western Railway Equipment Company. (See Pietzsch, F. H., and Campbell, assignors.)

Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)

Westinghouse Electric & Manufacturing Company. (See Baker, John F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Butcher, Charles A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)

Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hanna, Clinton R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Harrington, G. F., and Brace, assignors.)

Westinghouse Electric & Manufacturing Company. (See La Bar, Bert G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Matthews, Howard D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mylius, Walter G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Palmer, Delos M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Phillippi, Arthur K., assignor.)

Westinghouse Electric & Manufacturing Company. (See Rathbone, Thomas C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Reagan, Maurice E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Tamele, Karl, assignor.)

Westinghouse Electric & Manufacturing Company. (See Vaupel, Albert, assignor.)

Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)

Westinghouse Lamp Company. (See Gero, William B., assignor.)

Westinghouse Lamp Company. (See Rentschler, Harvey C., assignor.)

Westling, Herman, Watertown, Mass. Overshoe. 1,691,894; Nov. 13.

Wheeler, Cottrell C., Forest Hills, N. Y. Liquid-fuel burner. 1,691,690; Nov. 13.

Whitcomb, Harris M., Albany, Wis. Attachment for lathes. 1,691,320; Nov. 13.

White, Charles F., Detroit, Mich. Sandpaper holder. 1,691,418; Nov. 13.

White, Edward A., Lewiston, Idaho. Fruit-drying machine and method. 1,691,874; Nov. 13.

White, George A., and W. Sparks, assignors to The Sparks-Withington Company, Jackson, Mich. Signaling device. 1,691,321; Nov. 13.

White, Joseph Y., Chicago, Ill. Machine for making book covers. 1,691,691; Nov. 13.

White Motor Company, The. (See Goode, Gilbert C., assignor.)

White, Ole M., Clear Lake, Wis. Stone-hauling device. 1,691,597; Nov. 13.

Whitehead, Arthur S. (See Wright, W. J., and Whitehead.)

Whiting, Donald F., Port Washington, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coupling circuits of different impedance characteristics. 1,691,098; Nov. 13.

Wicke, Carl, New York, N. Y. Radio aerial support. 1,691,864; Nov. 13.

Wightman, Merle J., West New Brighton, assignor to Domestic Stoker Company, New York, N. Y. Stoker. 1,691,619; Nov. 13.

Wilcox Products Corporation. (See McDonald, Charles B., assignor.)

Wilkinson, Zeno C., assignor to Youngstown Pressed Steel Co., Warren, Ohio. Stove. 1,691,692; Nov. 13.

Willard Storage Battery Company. (See Lormor, Henry W., assignor.)

Willard Storage Battery Company. (See Nightingale, Robert J., assignor.)

Willard, Theodore A., Cleveland Heights, Ohio. Motor attachment for motion-picture cameras. 1,691,419; Nov. 13.

Williams, Dayton L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Marking device. 1,691,748; Nov. 13.

Williams, George A., and R. E. Hill, assignors to Williams Sealing Corporation, Decatur, Ill. Capping machine. 1,691,875; Nov. 13.

Williams, John A., and E. Lequornik, Richmond Hill, N. Y. Electric heater. 1,691,749; Nov. 13.

Williams Sealing Corporation. (See Williams, G. A., and Hill, assignors.)

Williamson, Henry M., Chicago, Ill., assignor to Johnson-Williamson Laboratories, Incorporated. Electrical receiver. 1,691,099; Nov. 13.

Wilson, Albert A., Chicago, Ill. Type bearer. 1,691,693; Nov. 13.

Wilson, Cecelia C., Oakland, Calif. Sanitary seat for invalid chairs. 1,691,620; Nov. 13.

Wilson, Emery J., Cleveland, assignor to The Thew Shovel Company, Lorain, Ohio. Drag-line arrangement. 1,691,100; Nov. 13.

Wilson, George E., Omaha, Nebr. Dispensing receptacle for powdered and granular materials. 1,691,261; Nov. 13.

Winckler, Aage E., Milwaukee, Wis. Fuel injector for internal-combustion engines. 1,691,172; Nov. 13.





Winckler, Aage E., Milwaukee, Wis. Combustion chamber for internal-combustion engines. 1,691,173; Nov. 13.

Winckler, Aage E., Milwaukee, Wis. Internal-combustion engine. 1,691,174; Nov. 13.

Winckler, Aage E., Milwaukee, Wis. Fuel-feeding mechanism for internal-combustion engines. 1,691,175; Nov. 13.

Winckler, Aage E., Milwaukee, Wis. Lubricating system for internal-combustion engines. 1,691,322; Nov. 13.

Wine, William E., Toledo, Ohio. Slope sheet for freight cars. 1,691,792; Nov. 13.

Wine, William E., Toledo, Ohio. Slope sheet and making the same. 1,691,793; Nov. 13.

Winer, Jesse S., Sturgis, Mich. Register. 1,691,835; Nov. 13.

Winkler, Xaver, assignor no the Firm E. Holtzman & Cie. A.-Ges., Weisenbachfabrik, Germany. Wood grinder. 1,691,101; Nov. 13.

Winn, Adelbert D., Toronto, Ontario, Canada. Buckle overshoe. 1,691,219; Nov. 13.

Winslow, Charles A., Vallejo, and E. J. Hall, Berkeley, Calif. Air cleaner. 1,691,536; Nov. 13.

Wishmeier, Charles H., near Indianapolis, assignor to Habig Manufacturing Company, Indianapolis, Ind. Two-way adjustable window. 1,691,559; Nov. 13.

Witham, George S., sr., Hudson Falls, N. Y., assignor to Ramar Syndicate, Inc., Norfolk, Va. Wood-splitting machine. 1,691,102; Nov. 13.

Witter, Willis D. (See Epps, F. A., Boniface, and Witter.)

Wolcott, Edson R., Los Angeles, Calif., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Manufacture of hydrochloric acid. 1,691,452; Nov. 13.

Wolf, John M., Devils Lake, N. Dak. Hay-baling device. 1,691,865; Nov. 13.

Wolfe, Joel B., Fruitland, Wash. Stringed-instrument player. 1,691,506; Nov. 13.

Wood, Andrew C., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Limited-range spotlight. 1,691,420; Nov. 13.

Woodbridge Joseph L., Philadelphia, Pa. Storage battery. 1,691,794; Nov. 13.

Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,691,365; Nov. 13.

Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)

Woytych, Raymond M. (See Kempton, H. E., Gallimore, and Woytych.)

Wright, William J., and A. S. Whitehead, Seattle, Wash. Flat-fold binder device. 1,691,537; Nov. 13.

Wurdack, Arthur, Normandy, Mo. Chair. 1,691,262; Nov. 13.

Xippas, Socrates A., Buffalo, N. Y. Heating device for air-circulating fans. 1,691,421; Nov. 13.

Yancey, Thornton M., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material-working apparatus. 1,691,103; Nov. 13.

Young, Clarence H., Boston, Mass. Truck. 1,691,621; Nov. 13.

Youngstown Pressed Steel Co. (See Wilkinson, Zeno C., assignor.)

Youngstown Steel Door Company, The. (See Barrows, Allan S., assignor.)

Zbinden, Eugen, assignor to Sulzer Freres Societe Anonyme, Winterthur, Switzerland. Internal-combustion-engine locomotive. 1,691,598; Nov. 13.

Zimmermann, William F., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Locking device. 1,691,590; Nov. 13.

Zimmermann, William F., Waverly, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Support for implement retainers. 1,691,694; Nov. 13.

Zink, Fred W., assignor to Kales Stamping Company, Detroit, Mich. Support for rear-view mirrors. 1,691,323; Nov. 13.

Zollman, John G., Chicago, Ill. Calculating device. 1,691,104; Nov. 13.

Zundel, Eugene A., Chicago, Ill. Closet seat. 1,691,176; Nov. 13.

Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Television system. 1691,324; Nov. 13.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 13TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid. Manufacture of hydrochloric. E. R. Wolcott. 1,691,432; Nov. 13.
Acids, Producing anthraquinone sulphonic. J. Thomas. 1,691,679; Nov. 13.
Actuating mechanism or mechanical movement for pressing machines. E. Davis. 1,691,646; Nov. 13.
Advertising device. H. Frederick. 1,691,712; Nov. 13.
Advertising device. O. F. Meadows. 1,691,204; Nov. 13.
Aerial system. F. Conrad. 1,691,338; Nov. 13.
Air cleaner. C. A. Winslow and E. J. Hall. 1,691,536; Nov. 13.
Aircraft with pusher screw. K. Tank and K. Frydag. 1,691,593; Nov. 13.
Alarm apparatus. S. E. Cheney. 1,691,378; Nov. 13.
Alarm with variable intensity. R. C. Pierce. 1,691,081; Nov. 13.
Aligning device. E. F. Maas. 1,691,772; Nov. 13.
Aminoanthraquinones, Manufacture of. H. Berthold. 1,691,428; Nov. 13.
Anchor, Land. R. R. and A. Hirst. 1,691,480; Nov. 13.
Anhydrides of organic acids, Preparation of. F. Doerinckel and M. Schliemann. 1,691,647; Nov. 13.
Animal poke. H. Fischer. 1,691,471; Nov. 13.
Annealing furnace. K. Tamele. 1,691,259; Nov. 13.
Antiglare device. G. W. Blackburn. 1,691,107; Nov. 13.
Antiskid device for motor vehicles. R. Thorner. 1,691,140; Nov. 13.
Antitheft device for motor vehicles. A. C. King and J. Stringer. 1,691,484; Nov. 13.
Apparatus for making inflatable-ball covers. J. T. Riddell. 1,691,671; Nov. 13.
Armchair, Tablet. W. S. Ferris. 1,691,053; Nov. 13.
Assembling machine. F. M. Furber. 1,691,277; Nov. 13.
Auger. T. Birkenmaier. 1,691,540; Nov. 13.
Automobile body. A. P. Smith and S. Eichel. 1,691,557; Nov. 13.
Automobile sander. W. H. Minier. 1,691,298; Nov. 13.
Automobile signal. J. N. Korvallis. Des. 76,876; Nov. 13.
Bag: *See*—
Hat bag. Shipping-cover bag.
Bag. H. C. Gamble. 1,691,905; Nov. 13.
Bag. A. Lefkowitz. 1,691,906; Nov. 13.
Bag. P. E. Morrill and R. E. Pierce. 1,691,782; Nov. 13.
Bag and handle therefor, Carrying. G. C. Snyder. 1,691,741; Nov. 13.
Bag holder, Portable and collapsible. J. H. Haven. 1,691,571; Nov. 13.
Ball-forming machine. A. C. Munro. 1,691,248; Nov. 13.
Bank, Savings. B. F. Greer. 1,691,628; Nov. 13.
Barrel, drum, cask, or the like. J. E. Blincow. 1,691,753; Nov. 13.
Basket top. A. W. Spencer and F. A. Falconer. 1,691,591; Nov. 13.
Bath apparatus. J. Lang. 1,691,577; Nov. 13.
Bathing device, Propelled. J. Hall. 1,691,188; Nov. 13.
Battery: *See*—
Storage battery.
Beam, Walking. C. L. Lonsinger. 1,691,770; Nov. 13.
Bearings, Making lined. W. H. Klocke. 1,691,073; Nov. 13.
Beater for paper stock. C. R. Seaborne. 1,691,308; Nov. 13.
Bed and luggage carrier, Combination cap. D. G. Conn. 1,691,601; Nov. 13.
Bed, Folding. F. K. Conrad. 1,691,268; Nov. 13.
Bed, Folding. J. M. Thomson. 1,691,260; Nov. 13.
Belt, Driving. M. O. Reeves. 1,691,871; Nov. 13.
Belt, Transmission. P. B. Reeves. 1,691,892; Nov. 13.
Bench. F. Schwartz. Des. 76,900. Nov. 13.
Bending machine, Sheet-metal. W. Bittner. 1,691,032; Nov. 13.
Binder device, Flat-fold. W. J. Wright and A. S. Whitehead. 1,691,537; Nov. 13.
Binder for loose leaves. W. H. Smith. 1,691,257; Nov. 13.
Blank-cutting machine. R. G. Anderson. 1,691,795–6; Nov. 13.
Block: *See*—
Terminal block.
Boat and trailer therefor, Folding. B. Bertram. 1,691,633; Nov. 13.
Boat, Paddle. F. A. Lindstrom. 1,691,896; Nov. 13.
Bobbin case. C. H. Greenwood. 1,691,242; Nov. 13.
Bolt-operating means, Emergency-. C. Y. Hopkins. 1,691,655; Nov. 13.
Bolter for carbon black, etc. W. S. Hoskins. 1,691,572; Nov. 13.
Bookrack. E. C. Henderson. 1,691,191; Nov. 13.
Bottle-capping machine. S. L. Goldman. 1,691,652; Nov. 13.
Bottle-carrying device. J. E. Robinson. 1,691,254; Nov. 13.
Bowl. W. H. Magee. Des. 76,878–9; Nov. 13.
Box: *See*—
Collapsible box. Polish box.
Journal box. Shoe box.
Panel-board box.
Box. H. S. Lion. 1,691,158; Nov. 13.
Box. E. H. Ronay. Des. 76,894; Nov. 13.
Brace for club feet. O. L. Fischer. 1,691,235; Nov. 13.
Brace rod for casement windows. J. Beuc. 1,691,332; Nov. 13.
Bracelet. D. Dubassoff. Des. 76,857; Nov. 13.
Bracelet or similar article. W. Kuehner. Des. 76,877; Nov. 13.
Bracket: *See*—
Caster-mounting bracket. Tube-frame bracket.
Roofing bracket.
Brake: *See*—
Reverse brake. Vehicle brake.
Brake. A. Y. Dodge. 1,691,566; Nov. 13.
Brake-adjusting mechanism, Automatic. C. O. Anderson. 1,691,825; Nov. 13.
Brake for automobiles, Electric. H. Johnson and L. O. Aune. 1,691,812; Nov. 13.
Brake mechanism, Vehicle. H. Perrot. 1,691,584; Nov. 13.
Breathing device. A. B. Dräger. 1,691,648; Nov. 13.
Brooch or similar article. B. Mechlovits. Des. 76,881–2; Nov. 13.
Brooch or similar article, metal. B. Mechlovits. Des. 76,883; Nov. 13.
Brushing machine. H. W. Lormer. 1,691,309; Nov. 13.
Bumper and luggage carrier, Combined. E. P. Farum and E. H. Specht. 1,691,547; Nov. 13.
Bumper, Automobile. W. Nicholas. 1,691,492; Nov. 13.
Bumper, Shock-absorbing. M. J. Long. 1,691,398; Nov. 13.
Bumper-supporting means. H. S. Jandus. 1,691,885; Nov. 13.
Bumper, Vehicle. H. S. Jandus and R. A. Finn. 1,691,886; Nov. 13.
Burner: *See*—
Fuel burner. Liquid-fuel burner.
Gas burner. Oil burner.
Burner. J. P. Reinecke. 1,691,169; Nov. 13.
Burner and water heater, Refuse. J. Borge. 1,691,462; Nov. 13.
Button or the like, Campaign. S. S. Bloom. Des. 76,851; Nov. 13.
Button or the like, Cuff. F. C. Rile. Des. 76,891–2; Nov. 13.
Cabinet. A. Greth. 1,691,186; Nov. 13.
Cabinet, Drier. J. Judelson. 1,691,290; Nov. 13.
Cabinet, Smoker's. S. B. Sklar. 1,691,212; Nov. 13.
Calcium cyanamide free from dust, Rendering. J. Breslauer and E. de Laserna. 1,691,044; Nov. 13.
Calculating device. J. G. Zollman. 1,691,104; Nov. 13.
Calculating machine. E. C. Schinke. 1,691,555; Nov. 13.
Camera support and manipulator. N. A. Nordin. 1,691,733; Nov. 13.
Cameras, Motor attachment for motion-picture. T. A. Willard. 1,691,419; Nov. 13.
Can and pail, Combined interior collar. L. J. Freundt. 1,691,276; Nov. 13.
Can opener. F. Dreyer. 1,691,050; Nov. 13.
Candlestick. W. H. Magee. Des. 76,886; Nov. 13.
Cane mill. F. Farrel, jr. 1,691,546; Nov. 13.
Capping machine. G. A. Williams and R. E. Hill. 1,691,875; Nov. 13.
Car-bottom furnace-hearth seal. J. F. Baker. 1,691,368; Nov. 13.
Car, Railway. R. R. Weaver. 1,691,873; Nov. 13.
Carrier: *See*—
Bed and luggage carrier. Tube carrier.
Trunk and luggage carrier.
Cars, Slope sheet for freight. W. E. Wine. 1,691,792; Nov. 13.
Carburetor. E. T. Larkin. 1,691,201; Nov. 13.
Carburetor. C. L. Leveque. 1,691,487; Nov. 13.
Case: *See*—
Bobbin case. Show case.
Key case. Toothbrush case.
Cash register. E. J. Von Pein. 1,691,416; Nov. 13.
Casings, Attaching means for. H. A. Douglas. 1,691,844; Nov. 13.
Caster. F. K. Kilian. 1,691,659; Nov. 13.
Caster-mounting bracket. W. F. Herold. 1,691,716; Nov. 13.





Centrifugal machine for casting metal. D. Brown. 1,691,464; Nov. 13.
Chair: *See*—
Swiveling chair.
Chair. A. J. Adams. 1,691,033; Nov. 13.
Chair. H. P. Faris. Des. 76,860; Nov. 13.
Chair. W. S. Ferris. Des. 76,863; Nov. 13.
Chair. A. Wurdack. 1,691,262; Nov. 13.
Chairs, Adjustable back rest for. A. J. Adams. 1,691,034; Nov. 13.
Chairs, Foot rest for. A. J. Adams. 1,691,036; Nov. 13.
Chamber for internal-combustion engines, Combustion. A. E. Winckler. 1,691,173; Nov. 13.
Chemical reactions, Performing. C. W. Mortimer. 1,691,903; Nov. 13.
Chuck. A. M. Drake. 1,691,649; Nov. 13.
Chuck. H. E. Kempton, K. F. Gallimore, and R. M. Waytych. 1,691,657; Nov. 13.
Chucking machine, Automatic single-spindle-. J. J. N. Van Hameraveld. 1,691,595; Nov. 13.
Cinematograph spool case. J. E. Thornton. 1,691,414; Nov. 13.
Circuit-control apparatus. E. F. W. Alexanderson and A. H. Mittag. 1,691,423; Nov. 13.
Circuit-control apparatus. I. Langmuir. 1,691,895; Nov. 13.
Circuits, Control for electric. G. Muffly. 1,691,666; Nov. 13.
Circuits, Thermostatically-controlled electric. J. F. Seidel. 1,691,448; Nov. 13.
Clamp: *See*—
Hose clamp. Plate clamp.
Clamp. B. W. Johnson. 1,691,392; Nov. 13.
Clamp for storage batteries, Terminal. R. J. Nightingale. 1,691,079; Nov. 13.
Cleaner: *See*—
Air cleaner. Portable cleaner.
Grain and seed cleaner. Window cleaner.
Cleaning and extracting machine. F. L. Harding. 1,691,113; Nov. 13.
Cleaning apparatus. B. L. Harrison. 1,691,060; Nov. 13.
Cleaning device, Poultry-pan-. H. B. Coats, D. E. Jaques, and A. W. Holmes. 1,691,181; Nov. 13.
Cleaning filters. L. L. Dollinger. 1,691,514; Nov. 13.
Clip: *See*—
Light-bulb clip.
Clipper, Hair. J. H. Donnellon. 1,691,270; Nov. 13.
Closet seat. E. A. Zundel. 1,691,176; Nov. 13.
Closure. W. G. Clark. 1,691,110; Nov. 13.
Closure for bottles. A. F. McDonnell. 1,691,525; Nov. 13.
Closure for containers. A. F. McDonnell. 1,691,526; Nov. 13.
Closure for containers. A. F. McDonnell. 1,691,780; Nov. 13.
Clothes drier. D. Bell. 1,691,042; Nov. 13.
Cock, Ball. D. L. Butler. 1,691,224; Nov. 13.
Cock for all liquids and gases, Closing and regulating. L. Ferrette. 1,691,602; Nov. 13.
Coin-controlled machine. A. W. Barnard. 1,691,631; Nov. 13.
Collapsible box. E. E. Hale. 1,691,152; Nov. 13.
Collar. M. Robbins. 1,691,856; Nov. 13.
Combination lock. A. Golder. 1,691,240; Nov. 13.
Composition of gum chicle, rubber, and an aqueous colloid. A. Riddle. 1,691,460; Nov. 13.
Compost, Spent-soil. R. H. Morris, 3d. 1,691,077; Nov. 13.
Compression and speed device, Variable. J. E. Harris. 1,691,284; Nov. 13.
Compressor. J. R. Replogle. 1,691,305; Nov. 13.
Compressor, Fluid-actuated. R. P. Pescara. 1,691,737; Nov. 13.
Computing interest, Device for. T. B. Harper. 1,691,761; Nov. 13.
Concrete beam structures, Reenforcing means for. H. H. Lampert. 1,691,074; Nov. 13.
Concrete, Process of and materials for treating. N. C. Johnson. 1,691,721; Nov. 13.
Condensation of urea and formaldehyde and the products thus obtained, Manufacture of products of. H. Barthélemy. 1,691,427; Nov. 13.
Condenser. E. A. Bohlman. 1,691,375; Nov. 13.
Condenser, Electrical. A. Nyman. 1,691,901; Nov. 13.
Condenser, Electrical. H. R. Van Deventer. 1,691,911; Nov. 13.
Condenser for refrigerating apparatus. J. O. Carrey. 1,691,180; Nov. 13.
Conductor, Electrical. F. F. Fowle. 1,691,869; Nov. 13.
Conductor for the transmission of electrical energy and producing the same, A. F. Bandur. 1,691,029; Nov. 13.
Conduit fitting. H. A. Selah. 1,691,255; Nov. 13.
Connection device. H. B. Jones. 1,691,072; Nov. 13.
Container. J. M. Hothersall. 1,691,289; Nov. 13.
Container. F. S. Oppenheim. 1,691,736; Nov. 13.
Container, Dispensing. H. S. Stout. 1,691,861; Nov. 13.
Container for a vacuum flask or the like J. Cohen. Des. 76,853; Nov. 13.
Container, Insulating shipping. G. B. Beaman. 1,691,178; Nov. 13.
Container such as cans or boxes of any shape, Sanitary preserving food. H. Karl. 1,691,894; Nov. 13.
Container, Valve-equipped. O. J. Parks. 1,691,670; Nov. 13.
Control mechanism for vehicle wheel brakes. A. Y. Dodge. 1,691,567; Nov. 13.
Control system. M. E. Reagan. 1,691,360; Nov. 13.
Controlling electrical instruments, Variably. A. D. Cardwell. 1,691,700; Nov. 13.
Controlling mechanism for successively acting printing units. O. C. F. Meisel. 1,691,889; Nov. 13.
Conveyer of the belt type. J. Thomson. 1,691,681; Nov. 13.
Conveyer, Off-bearing. C. E. Fuller. 1,691,881; Nov. 13.
Cooling apparatus, Steam-. S. W. Rushmore. 1,691,614; Nov. 13.
Cooling system, Dynamo-. F. G. Baum. 1,691,696; Nov. 13.
Cooling systems for internal-combustion engines, Operating. W. W. Muir. 1,691,121; Nov. 13.
Counter, Display. F. W. Daemicke. 1,691,706; Nov. 13.
Coupling: *See*—
Flexible coupling. Hose coupling.
Coupling. C. Kosnick. 1,691,817; Nov. 13.
Coupling circuits of different impedance characteristics. D. F. Whiting. 1,691,098; Nov. 13.
Cover for dental drill handpieces. W. Ogilvie. 1,691,823; Nov. 13.
Cover for publications. I. S. Betts. Des. 76,847; Nov. 13.
Cowl with wind channels, Stationary. J. Kamps. 1,691,393; Nov. 13.
Crate, Bottle. R. D. Tyler. 1,691,617; Nov. 13.
Cream whipper. A. C. Guhl. 1,691,282; Nov. 13.
Crown-block apparatus. T. F. Campbell. 1,691,450; Nov. 13.
Crusher. H. H. Rumpel. 1,691,553; Nov. 13.
Cultivator-shovel structure. C. H. Kyrklund. 1,691,202; Nov. 13.
Curling iron, Hair-. E. K. Hussey. 1,691,244; Nov. 13.
Current motor, Alternating-. H. Weichsel and B. McCormick. 1,691,747; Nov. 13.
Cushioning connection. W. C. Keys. 1,691,723; Nov. 13.
Cutter: *See*—
Glass-tube cutter. Vegetable cutter.
Cutter for circular-mandrel tubes, Electrical. E. C. Kastner. 1,691,763; Nov. 13.
Cutting means for knitting machines, Yarn-. H. W. Matthews. 1,691,887; Nov. 13.
Cutting tubes, Device for. E. Burke and C. Q. Ives. 1,691,045; Nov. 13.
Davit for lifeboats. A. W. Lyda. 1,691,245; Nov. 13.
Decoloration of alkaline-earth-metal thiocyanate solutions. R. B. Fulton. 1,691,345; Nov. 13.
Dehydration products of pine oil and producing same. I. W. Humphrey. 1,691,066; Nov. 13.
Dental instrument. R. T. Roth. 1,691,786; Nov. 13.
Dental massage device. O. Remensnyder. 1,691,785; Nov. 13.
Dental plate and plating same. H. F. Buttner. 1,691,755; Nov. 13.
Dentistry, Prosthetic. E. A. Thayer. 1,691,594; Nov. 13.
Depository, Night safe. H. J. Robinson. Des. 76,895; Nov. 13.
Depth meter. C. F. Jenkins. 1,691,719; Nov. 13.
Detector. A. K. Phillippi. 1,691,358; Nov. 13.
Detector for paper-feeding machines, Sheet. R. Hitchcock. 1,691,606; Nov. 13.
Detector in regularly-moving transferrer, Weft. R. G. Turner. 1,691,141; Nov. 13.
Detector on a transferrer arm, Inertia-actuated weft. K. J. Unwin. 1,691,142; Nov. 13.
Determining the contents of a gas. H. Schmick. 1,691,138; Nov. 13.
Dial apparatus for automatic telephone systems, Impulse-. W. Kruse. 1,691,575; Nov. 13.
Diaphragm and mounting therefor. E. Toman. 1,691,093; Nov. 13.
Die-casting mold. H. A. Adams. 1,691,220; Nov. 13.
Dipolymer, Making. I. W. Humphrey. 1,691,065; Nov. 13.
Dipolymer, Making. I. W. Humphrey. 1,691,067–9; Nov. 13.
Dipolymer, Making. I. W. Humphrey. 1,691,573; Nov. 13.
Direction signal, Vehicle. F. P. Carpenter. 1,691,431; Nov. 13.
Direction signal, Vehicle. H. L. Snyder. 1,691,502; Nov. 13.
Dish or similar article, Covered. E. J. Ridgway. Des. 76,890; Nov. 13.
Dishwashing apparatus. L. Caskin. 1,691,839; Nov. 13.
Disinfecting agent. K. Daimler, F. Just, G. Balle, and S. Fuchs. 1,691,228; Nov. 13.
Dispensing apparatus, Visible. L. E. Baker. 1,691,539; Nov. 13.
Dispensing device. A. W. Holmes, D. E. Jaques, and H. B. Coats. 1,691,192; Nov. 13.
Dispensing device. W. E. Twichell. 1,691,171; Nov. 13.
Dispensing liquids, Apparatus for. E. Huribrink. 1,691,070; Nov. 13.
Display case or similar article. J. J. Norvelle. Des. 76,888; Nov. 13.
Display device, Oil-. H. M. Boe. 1,691,333; Nov. 13.
Display rack. E. G. La Barre. 1,691,576; Nov. 13.
Display rack, Hosiery-. B. Larson. 1,691,293; Nov. 13.
Display stand. C. T. D'Angelo. Des. 76,856; Nov. 13.
Distributing apparatus, Powder-. A. L. Morse. 1,691,205; Nov. 13.
Distributing device. F. Toohey. 1,691,313; Nov. 13.
Distributing device for artificial-silk plants, Viscose-. A. C. Frey. 1,691,713; Nov. 13.

Dolly. E. Karfiol. Des. 76,872; Nov. 13.
Door. A. S. Barrows. 1,691,370; Nov. 13.
Door and trough, Poultry-coop. F. X. Mudd. 1,691,665; Nov. 13.
Door-control means for elevators. H. W. Shonnard. 1,691,787; Nov. 13.
Door holder, Garage-. E. A. Busacker. 1,691,754; Nov. 13.
Door-holding means. E. A. Kruschka. 1,691,724; Nov. 13.
Drag-line arrangement. E. J. Wilson. 1,691,100; Nov. 13.
Drainer, Dish. E. H. Ryerson. 1,691,858; Nov. 13.
Dredging mechanism, Hydraulic. L. Vorhies. 1,691,686; Nov. 13.
Drier: *See*—
Cabinet drier. Clothes drier.
Drill: *See*—
Grain drill. Rock drill.
Drilling mechanism. E. G. Gartin. 1,691,404; Nov. 13.
Drink stand. P. E. Ryerson. Des. 76,896; Nov. 13.
Drying apparatus, Filament-. S. A. Neldich. 1,691,165; Nov. 13.
Dusting machine, Powder-. L. F. Burger. 1,691,563; Nov. 13.
Dyeing. Apparatus for preparing warp yarn for. E. E. Carlson and L. A. Stead. 1,691,702; Nov. 13.
Dyeing of cellulose esters and ethers. A. Goeschke. 1,691,517; Nov. 13.
Dyeing of wool and/or silk. C. Shaw. 1,691,500; Nov. 13.
Dyeing yarn. E. E. Carlson and L. A. Stead. 1,691,701; Nov. 13.
Dyestuffs of the 2,2-indole-thionaphthene-indigo series, Vat. C. Krauss. 1,691,660; Nov. 13.
Electric conductor, Loaded. W. S. Smith, H. J. Garnett, and J. A. Holden. 1,691,309; Nov. 13.
Electric engine, Rotary. E. M. Mollett. 1,691,853; Nov. 13.
Electric furnace. J. C. Woodson. 1,691,365; Nov. 13.
Electric heater. J. A. Williams and E. Lequornik. 1,691,749; Nov. 13.
Electric iron. S. Dworkin. 1,691,434; Nov. 13.
Electric switch. G. B. Reisbach. 1,691,252; Nov. 13.
Electrical apparatus. L. L. Nettleton. 1,691,206; Nov. 13.
Electrical control system. H. B. Goldman. 1,691,241; Nov. 13.
Electrical controller. F. H. Oberschmidt. 1,691,735; Nov. 13.
Electrical receiver. H. M. Williamson. 1,691,099; Nov. 13.
Electrical system of distribution. L. H. Von Ohlsen. 1,691,005; Nov. 13.
Electrode. M. Walther. 1,691,505; Nov. 13.
Electrolytic rectifier. W. E. Holland. 1,691,806; Nov. 13.
Electromagnetic instrument. T. L. Lee and H. C. Rohr. 1,691,203; Nov. 13.
Electron-discharge device with oxide-coated filament. H. C. Rentschler. 1,691,446; Nov. 13.
Emulsions or dispersions and product thereof, Producing. L. Kirschbraun. 1,691,768; Nov. 13.
Emulsions or dispersions, Producing. L. Kirschbraun and H. L. Levin. 1,691,766–7; Nov. 13.
Engine: *See*—
Electric engine. Fuel-combustion engine.
Fuel-injection engine.
Engine starter. R. P. Lansing. 1,691,820; Nov. 13.
Ensilage distributor for silos, Automatic. H. A. Townsend. 1,691,683; Nov. 13.
Esters produced from organic halides and producing the same. E. E. Ayres, jr., and E. H. Haabestad. 1,691,425; Nov. 13.
Exercising device. W. H. Titus. 1,691,092; Nov. 13.
Exercising machine. W. Stuebling, jr. 1,691,900; Nov. 13.
Exhibitor, Changeable. W. C. Martin. 1,691,551; Nov. 13.
Expansion joint. A. C. Fischer. 1,691,234; Nov. 13.
Eye mounting for dolls. L. J. Grubman. 1,691,437–8; Nov. 13.
Fabric: *See*—
Gas-cell fabric.
Fabric and treating same. D. E. Hennessy. 1,691,605; Nov. 13.
Fan, Centrifugal. J. A. Watkins. 1,691,319; Nov. 13.
Fastener. E. Vosburg. 1,691,833; Nov. 13.
Fastener, Bandage. K. H. Itzerott. 1,691,810; Nov. 13.
Fastener, Burglarproof sash. W. E. Ward. 1,691,318; Nov. 13.
Fastener, Hinged pin. G. Boden and G. A. King. 1,691,880; Nov. 13.
Fastener, Sash. W. A. Kirk. 1,691,485; Nov. 13.
Fastening device. L. Alterson. 1,691,453; Nov. 13.
Fastening device. O. I. Hoppe. 1,691,064; Nov. 13.
Fastening device for adjustable ski ears. R. Berge. 1,691,512; Nov. 13.
Fastening device, Material-. C. Betz. 1,691,179; Nov. 13.
Feed-water regulator. V. V. Veenschoten. 1,691,317; Nov. 13.
Feeding means for centrifugal grinders. C. A. A. Rand. 1,691,585; Nov. 13.
Feeding mechanism for internal-combustion engines, Fuel-. A. E. Winckler. 1,691,175; Nov. 13.
Feeding system for motor vehicles, Fuel-. A. G. Redmond. 1,691,128; Nov. 13.
Fence machine, Wire-. C. A. Porath. 1,691,166; Nov. 13.
Fence section, Miniature or toy. J. C. Matthai. 1,691,728; Nov. 13.
Filling and crowning machine. G. J. Huntley. 1,691,718; Nov. 13.
Filter. C. S. Burns. 1,691,867; Nov. 13.
Fire extinguisher. A. C. Badger. 1,691,041; Nov. 13.
Fire-extinguishing apparatus. F. A. Epps, A. O. Boniface, and W. D. Witter. 1,691,710; Nov. 13.
Fish lure. R. L. and C. W. Clewell. 1,691,225; Nov. 13.
Fishing reel. W. L. Adams and C. T. Pflueger. 1,691,622; Nov. 13.
Flatiron, Electric. W. A. DeHart. 1,691,627; Nov. 13.
Flexible coupling. S. Jencick. 1,691,116; Nov. 13.
Float light. R. J. Anderson. 1,691,508; Nov. 13.
Floor covering. J. E. A. Egleson. 1,691,708; Nov. 13.
Flower stand. J. B. Salterini. Des. 76,898–9; Nov. 13.
Foot cap. H. E. Hodgson. 1,691,440; Nov. 13.
Forging mechanism. J. R. Blakeslee. 1,691,879; Nov. 13.
Forming and injecting device for internal-combustion engines, Charge. A. G. Redmond. 1,691,127; Nov. 13.
Forming inflatable-ball covers. J. T. Riddell. 1,691,672; Nov. 13.
Forming pressed-metal hinges. R. F. Carpenter. 1,691,109; Nov. 13.
Foundation method. G. W. Allen. 1,691,037; Nov. 13.
Fractionating. I. B. Funk. 1,691,238; Nov. 13.
Frame: *See*—
Knitting frame. Machine frame.
Frame and sash construction. A. G. Dawson. 1,691,868; Nov. 13.
Frame construction. I. A. Baum. 1,691,371; Nov. 13.
Frame construction, Car-. W. B. Gregg. 1,691,474; Nov. 13.
Friction means for window-shade rollers. H. R. Brewer. 1,691,463; Nov. 13.
Fruit-cleaning machine. J. R. Litty and T. B. Lundin. 1,691,727; Nov. 13.
Fruit-drying machine and method. E. A. White. 1,691,874; Nov. 13.
Fuel burner. O. Falkenwalde. 1,691,650; Nov. 13.
Fuel-injection engine. A. C. Peterson. 1,691,302; Nov. 13.
Fuel or similar objects from peat, peat moss, lignite, or the like, Apparatus for producing hard homogeneous. B. Jirotka. 1,691,196; Nov. 13.
Fuel, Peat. R. E. Ober. 1,691,734; Nov. 13.
Furnace: *See*—
Annealing furnace. Hearth furnace.
Electric furnace.
Furnace. J. F. Baker. 1,691,369; Nov. 13.
Furnace. K. Tamele. 1,691,258; Nov. 13.
Furniture. C. H. Busch. 1,691,624; Nov. 13.
Garment. S. Volker. 1,691,790; Nov. 13.
Garment, Electrically-heated. W. D. Graham and C. M. Uhlig. 1,691,472; Nov. 13.
Gas and coke in alternately-working water-gas generators, Apparatus for producing. A. Breisig. 1,691,636; Nov. 13.
Gas burner. H. E. Kerr. 1,691,607; Nov. 13.
Gas-cell fabric. W. J. Kelly. 1,691,764; Nov. 13.
Gas trap. F. W. Harris. 1,691,350; Nov. 13.
Gasoline and other light hydrocarbons from heavier hydrocarbons, Process of and apparatus for producing. B. Ormont. 1,691,300; Nov. 13.
Gasoline gauge. W. H. Muzzy. 1,691,730; Nov. 13.
Gauge: *See*—
Gasoline gauge. Tire-pressure gauge.
Gauge-glass attachment. G. Ernst. 1,691,545; Nov. 13.
Gear, Flexible. S. C. Hatfield. 1,691,190; Nov. 13.
Gear for airplanes, Landing. G. M. Bellanca. 1,691,105; Nov. 13.
Gear for motor vehicles, Running. E. W. Templin. 1,691,742; Nov. 13.
Gear train for water meters. R. A. Anderson. 1,691,039; Nov. 13.
Gear, Variable-speed. J. A. Furness. 1,691,651; Nov. 13.
Gear, Variable-speed. C. R. Garrard and E. G. Fauser. 1,691,389; Nov. 13.
Gearing, Differential. R. L. Dennison. 1,691,230; Nov. 13.
Gel and producing the same. E. E. Ayres, jr., and E. H. Haabestad. 1,691,424; Nov. 13.
Glass-tube cutter. F. A. Slayton. 1,691,530; Nov. 13.
Globe for lighting fixtures. H. R. Arthur. Des. 76,846; Nov. 13.
Glue and making same, Vegetable. I. F. Laucks and G. Davidson. 1,691,661; Nov. 13.
Goblet. E. M. Bottome. Des. 76,852; Nov. 13.
Goblet or similar article. C. R. Kell. Des. 76,873; Nov. 13.
Grain and seed cleaner. J. H. Penny. 1,691,902; Nov. 13.
Grain drill. J. H Burtner. 1,691,466; Nov. 13.
Grid leak. T. C. Rathbone. 1,691,251; Nov. 13.
Grille. W. T. Hormes. Des. 76,869–70; Nov. 13.
Grinder, Wood. X. Winkler. 1,691,101; Nov. 13.
Grinding and pulverising mill. B. Scherbaum. 1,691,210; Nov. 13.
Grinding device. L. R. Heim. 1,691,061; Nov. 13.
Grinding piston rings. A. W. Morton. 1,691,120; Nov. 13.
Guide apparatus for strip-rolling mills. A. F. Clarke. 1,691,703; Nov. 13.
Guide for submarine drills, Steel. C. C. Hansen. 1,691,715; Nov. 13.
Gun, Arrow. A. P. Larson. 1,691,769; Nov. 13.
Gun carried by aircraft, Automatic. H. J. Payn. 1,691,494–5; Nov. 13.
Hand bag and similar article of luggage. A. M. Sims. 1,691,872; Nov. 13.





Hand-bag frame. A. Sherman. Des. 76,901; Nov. 13.
Handle: *See*—
Package handle.
Handle and housing, Combined valve. S. Smith. Des. 76,903–4; Nov. 13.
Handle for pneumatic tools. F. A. Jimerson. 1,691,720; Nov. 13.
Handle for screw driver or similar article. G. J. Crossman, jr. Des. 76,855; Nov. 13.
Handling mechanism, Sheet-. O. C. F. Meisel. 1,691,888; Nov. 13.
Handling mechanism, Sheet-. C. A. Meisel. 1,691,891; Nov. 13.
Handling sheet material, Method and apparatus for. L. C. Steele. 1,691,503; Nov. 13.
Handpiece. H. E. S. Chayes and A. P. Jurgensen. 1,691,047; Nov. 13.
Harness attachment. J. R. Cracroft. 1,691,432; Nov. 13.
Harrow, Tandem disk. A. A. Scarlett. 1,691,587; Nov. 13.
Hat. I. B. Simon. Des. 76,902; Nov. 13.
Hat bag, Collapsible. H. C. Gamble. 1,691,904; Nov. 13.
Hauling device, Stone. O. M. White. 1,691,597; Nov. 13.
Hay-baling device. J. M. Wolf. 1,691,865; Nov. 13.
Headlight, Automobile. C. A. Michel. 1,691,662; Nov. 13.
Headlight dimmer, Auto. J. C. Sweet. 1,691,832; Nov. 13.
Hearth furnace, Rotary. J. F. Baker. 1,691,367; Nov. 13.
Heat-controlling regulator, Automatic. J. J. Lawler. Re17,135; Nov. 13.
Heater: *See*—
Electric heater. Windshield-wiper heater.
Hot-water heater.
Heating apparatus for automobile vehicles. O. S. Caesar. Re17,131; Nov. 13.
Heating device for air-circulating fans. S. A. Xippas. 1,691,421; Nov. 13.
Heating metal parts, Apparatus for electrically. R. E. Bissell. 1,691,562; Nov. 13.
Heating system. F. J. Frenz. 1,691,435; Nov. 13.
Heating system, Fireplace. T. Burley. 1,691,465; Nov. 13.
Heel. A. Cocozella. 1,691,149; Nov. 13.
Helmet. R. C. Le Van. 1,691,202; Nov. 13.
High-tension installation. A. O. Austin. 1,691,329; Nov. 13.
Hinge, Gravitating. E. Fischer. 1,691,759; Nov. 13.
Hinge, Spring. E. Bommer. 1,691,697; Nov. 13.
Hinged joint. A. J. Cooper and A. A. H. Bilney. 1,691,468; Nov. 13.
Hitch, Tractor. L. A. Basler. 1,691,560; Nov. 13.
Hoist. T. and G. Ulmer. 1,691,685; Nov. 13.
Holder. E. I. Howell. 1,691,155; Nov 13.
Holder, File. W. M. Howser. 1,691,808; Nov. 13.
Holder, Napkin. J. W. King. Des. 76,874; Nov. 13.
Holder, Paste-tube. W. A. Behrens. 1,691,457; Nov. 13.
Holder, Retaining-valve. F. H. Pletzsch and S. H. Capbell. 1,691,784; Nov. 13.
Holder, Sandpaper. C. F. White. 1,691,418; Nov. 13.
Holder, Sanitary toothpick. F. Q. Slay. 1,691,831; Nov. 13.
Holder, Tool. D. D. Wells. 1,691,688; Nov. 13.
Hook: *See*—
Snap hook.
Hose clamp. J. H. Holyfield. 1,691 288; Nov. 13.
Hose coupling, Telescopic. W. H. Klyce. 1,691,816; Nov. 13.
Hosiery machines, Automatic controlling and timing mechanism for full-fashioned. J. E. Shoemaker. 1,691,740; Nov. 13.
Hot-water heater. M. H. Braden. 1,691,334; Nov. 13.
Hydraulic actuating means. W. Noble and L. V. Pitman. 1,691,896; Nov. 13.
Hydrogenizing tar oil. R. Bernhard and W. Denmann. 1,691,221; Nov. 13.
Hydrolysis of ester-forming compounds. E. E. Ayers jr. and E. H. Haabestad. 1,691,426; Nov. 13.
Ignition-control mechanism. B. Dick. 1,691,757; Nov. 13.
Ignition device. G. Gadke. 1,691 870; Nov. 13.
Indicating density of liquids, Device for. F. Schwartz. 1,691,084; Nov. 13.
Indicating device, Temperature-. H. Schlaich. 1,691,133; Nov. 13.
Indicator. V. F. Greaves. 1,691,569; Nov. 13.
Indicator and regulator for electric motors, Speed. G. von Arco, W. Schaeffer, and W. Moser. 1,691,618; Nov. 13.
Indicator for elevators or the like. H. F. Cypser. 1,691,798; Nov. 13.
Indicator for looms, Jacquard. E. R. Holmes. 1,691,154; Nov. 13.
Indicator for vehicles, Direction. A. Galley. 1,691,845; Nov. 13.
Induction furnace, High-frequency. G. F. Harrington and P. H. Brace. 1,691,349; Nov. 13.
Initiation device. U. S. De Moulin. 1,691,229; Nov. 13.
Injector for internal-combustion engines, Fuel. A. E. Winckler. 1,691,172; Nov. 13.
Ink-regulating mechanism for extended-delivery devices of printing presses. F. S. English. 1,691,051; Nov. 13.
Insect screen. H. H. Cragg. 1,691,226; Nov. 13.
Insecticides, Manufacture of. H. W. Ambruster. 1,691 454; Nov. 13.
Instrument. H. Schlaich. 1,691,135; Nov. 13.
Instrument player, Stringed-. J. B. Wolfe. 1,691,506; Nov. 13.
Insulated control. A. O. Austin. 1,691,751; Nov. 13.
Insulating bushings and making the same. M. Morrison. 1,691,356; Nov. 13.
Insulating structure. O. F. Mottweiler and D. C. Drill. 1,691,783; Nov. 13.
Insulator. A. O. Austin. 1,691,330; Nov. 13.
Internal-combustion engine. G. K. Davol. 1,691,182; Nov. 13.
Internal-combustion engine. W. M. Goodwin. 1,691,151; Nov. 13.
Internal-combustion engine. W. F. Smith. 1,691,616; Nov. 13.
Internal-combustion engine. A. E. Winckler. 1,691,174; No. 13.
Iron: *See*—
Curling iron. Marcel iron.
Electric iron.
Iron and alloys of iron having a very low percentage of carbon, Producing. H. G. Flodin and G. T. Gustafsson. 1,691,273; Nov. 13.
Iron and iron alloys directly out of oxide ores. Producing dense. H. G. Flodin and G. T. Gustafsson. 1,691,274; Nov. 13.
Iron attachment, Curling-. J. H. Jacobs. 1,691,115; Nov. 13.
Ironing machine, Neckband and attached-collar. D. H. Benjamin. 1,691,106; Nov. 13.
Jack: *See*—
Lifting jack.
Jewelry, Ornamental. J. A. Mellodon. 1,691,445; Nov. 13.
Joint: *See*—
Expansion joint. Hinged joint.
Joint with regulating means, Expansion. A. C. Badger. 1,691,040; Nov. 13.
Joist, Metallic. J. Kahn. 1,691,722; Nov. 13.
Journal box. H. K. Porter. 1,691,303; Nov. 13.
Keel column. H. T. Kraft. 1,691,818; Nov. 13.
Key case. W. R. Buxton. 1,691,637; Nov. 13.
Key case. F. A. King and E. Bedford. 1,691,608; Nov. 13.
Key lock. W. R. Schlage. 1,691,529; Nov. 13.
Knitting frame. H. Sakurai and T. Sakurai. 1,691,527; Nov. 13.
Knitting machine, Hosiery-. C. T. M. Green and F. H. Dost. 1,691,056; Nov. 13.
Lamp and smoker's stand, Combination. O. A. Schuchert. 1,691,137; Nov. 13.
Lamp, Projector. T. Hall. 1,691,475; Nov. 13.
Lantern frame. H. R. Holdeman. Des. 76,866; Nov. 13.
Lapel, Detachable. F. Hofer. 1,691,717; Nov. 13.
Last, Shoemaker's. J. Toole. 1,691,415; Nov. 13.
Last, Shoe-stretching. E. Galterio. 1,691,054; Nov. 13.
Latch, Car-door. F. Axelson. 1,691,028; Nov. 13.
Latch, Door. W. R. Schlage. 1,691,528; Nov. 13.
Latch, Metal. L. W. Cross. 1,691,227; Nov. 13.
Latches, Attachment for. H. M. Whitcomb. 1,691,320; Nov. 13.
Lead carbonate from crude lead sulphate, Producing pure. R. Daloze. 1,691,841; Nov. 13.
Leggings. H. C. Grellich. 1,691,057; Nov. 13.
Level. G. A. Bartow. 1,691,632; Nov. 13.
Leveler, Land. E. Overman. 1,691,854; Nov. 13.
Lid, Fruit-basket. G. O. Reshaw. 1,691,409; Nov. 13.
Lid, Jar. F. O'Neill. 1,691,403; Nov. 13.
Lifter: *See*—
Vacuum lifter.
Lifting jack. J. C. Dawley, C. D. Derby, and A. G. Kilian. 1,691,382; Nov. 13.
Light: *See*—
Float light.
Light-bulb clip, Electric. H. W. Falstrom. 1,691,799; Nov. 13.
Lighter with exchangeable incandescent body, Electric cigar and pipe. H. Agatz. 1,691,836; Nov. 13.
Lighting and ignition system for automotive vehicles, Combined. W. Schmid. 1,691,860; Nov. 13.
Lighting device, Bank-screen-. P. M. Hotchkin. 1,691,883; Nov. 13.
Lighting device for vehicles, Safety. H. W. Tromanhauser. 1,691,684; Nov. 13.
Lighting fixture, Combined strap and shield for a. H. Binder. Des. 76,848; Nov. 13.
Lighting fixtures, Arm for. B. Newland. Des. 76,887; Nov. 13.
Line-casting machine. A. W. F. Guest. 1,691,653; Nov. 13.
Line-stretching apparatus. D. Lockwood and A. J. Searle. 1,691,397; Nov. 13.
Link for use in coal-cutting machines and the like. T. J. Thompson. 1,691,680; Nov. 13.
Liquid-fuel burner. C. C. Wheeler. 1,691,690; Nov. 13.
Lister attachment for cultivators, Disk-. R. H. Kipp. 1,691,549; Nov. 13.
Loading and dumping device. I. E. Burkett. 1,691,513; Nov. 13.
Lock: *See*—
Combination lock. Safety lock.
Key lock. Shingle lock.
Lock and latch. C. R. Alley. 1,691,750; Nov. 13.
Locking device. W. F. Zimmermann. 1,691,599; Nov. 13.
Locking device for automobiles, Safety. C. A. Matson. 1,691,774; Nov. 13.
Locomotive-cab deck. C. C. C. Burkhardt and E. O. Elliott. 1,691,797; Nov. 13.
Locomotive, Diesel electric. D. M. Palmer. 1,691,249; Nov. 13.

Locomotive, Internal-combustion-engine. E. Zbinden. 1,691,598; Nov. 13.
Locomotive, Mine. B. K. Kirk. 1,691,815; Nov. 13.
Locomotive tender. F. Darby. 1,691,381; Nov. 13.
Loom and weaving double-pile fabrics. H. Howard. 1,691,194–5; Nov. 13.
Looms, Attachment for. A. Palmer. 1,691,124; Nov. 13.
Looms, Harness motion for. W. M. Wattle. 1,691,143; Nov. 13.
Looms, Head motion for. C. L. Hussey and W. H. Stebbins. 1,691,156; Nov. 13.
Looms, Lay for. E. H. Ryon. 1,691,132; Nov. 13.
Looms, Let-off mechanism for. I. O. Hucks. 1,691,884; Nov. 13.
Looms, Shedding motion for circular. S. Toyoda. 1,691,314; Nov. 13.
Lubricant meter. O. B. Haley. 1,691,187; Nov. 13.
Lubricating system for internal-combustion engines. A. E. Winckler. 1,691,322; Nov. 13.
Lubrication system. T. P. Smith. 1,691,214; Nov. 13.
Lubricator: *See*—
Spring lubricator.
Machine for digging pit silos and cisterns. C. H. Huenefeld and G. Campbell. 1,691,809; Nov. 13.
Machine for making book covers. J. V. White. 1,691,691; Nov. 13.
Machine for making hairpins. H. V. Glore. 1,691,516; Nov. 13.
Machine for operating on footwear. E. A. Holmgren. 1,691,287; Nov. 13.
Machine for patching shipping tags, etc. L. A. MacLean. 1,691,773; Nov. 13.
Machine for shaping and grinding stones for blast furnaces. W. Kosfeld. 1,691,898; Nov. 13.
Machine for the manufacture of fishhooks. M. Topp. 1,691,534; Nov. 13.
Machine for twisting wires with material therebetween. A. Van Veen. 1,691,094; Nov. 13.
Machine for use in the manufacture of shoes. F. M. Furber. 1,691,278; Nov. 13.
Machine frame, Portable-. J. Nickels. 1,691,732; Nov. 13.
Mandrel-upsetting press. L. Löwy. 1,691,075; Nov. 13.
Manifold for internal-combustion engines. W. G. Heginbottom and J. R. Francis. 1,691,114; Nov. 13.
Marcel hair waver. E. E. Baldwin. Re17,129; Nov. 13.
Marcel iron. D. J. Martin. 1,691,895; Nov. 13.
Margarine composition. J. C. Sherman. 1,691,087; Nov. 13.
Marking device. D. L. Williams. 1,691,748; Nov. 13.
Mat: *See*—
Revetment mat.
Material-working apparatus. T. M. Yancey. 1,691,103; Nov. 13.
Mattress ventilator. F. Kusterle. 1,691,629; Nov. 13.
Measuring instrument. R. D. Evans. 1,691,342; Nov. 13.
Measuring instrument. E. H. Gates. 1,691,279; Nov. 13.
Measuring instrument, Electrical. B. G. La Bar. 1,691,354; Nov. 13.
Measuring instrument, Electrical. W. C. Mylius. 1,691,357; Nov. 13.
Measuring temperature. H. D. Matthews. 1,691,247; Nov. 13.
Measuring the rate of mass flow and the temperature of fluids and apparatus therefor. C. F. Brush, jr. and R. D. Fay. 1,691,600; Nov. 13.
Mechanical movement. J. S. Curran. 1,691,644; Nov. 13.
Mechanism for procuring and controlling the broadside movement of metal bars. F. P. Dahlstrom. 1,691,645; Nov. 13.
Melting pot for linotype machines, Auxiliary. G. L. Curle. 1,691,380; Nov. 13.
Metal from blast furnaces, Using direct. R. Moldenke. 1,691,401; Nov. 13.
Metal working. J. R. Blakeslee. 1,691,878; Nov. 13.
Metals and metal alloys low in carbon, Producing. G. H. Flodin. 1,691,272; Nov. 13.
Metals in electric furnaces, Producing. E. G. T. Gustafsson. 1,691,439; Nov. 13.
Meter: *See*—
Depth meter.
Lubricant meter.
Mill: *See*—
Cane mill.
Grinding and pulverizing mill.
Mirror support, Rear-view-. F. W. Zink. 1,691,323; Nov. 13.
Mixing apparatus, Control mechanism for concrete. H. A. Berle. 1,691,031; Nov. 13.
Mixing dry and liquid materials, Apparatus for. L. True. 1,691,535; Nov. 13.
Mixing machine. W. F. Dehuff. 1,691,843; Nov. 13.
Mold: *See*—
Die-casting mold.
Mold and making same. W. H. Campbell. 1,691,756; Nov. 13.
Mold loading and transferring machine and jigger combined. W. J. Miller. 1,691,119; Nov. 13.
Moldboard. W. L. Beall. 1,691,561; Nov. 13.
Molding apparatus, Soap-. L. A. Paley. 1,691,899; Nov. 13.
Molding ebonite composition. H. Gray. 1,691,347; Nov. 13.
Mop wringer. R. S. Schwarz, sr. 1,691,086; Nov. 13.
Motor: *See*—
Current motor.
Motor combination, Household-. R. Krug. 1,691,200; Nov. 13.
Mounting and driving means for snowplow cutting wheels. R. D. Edwards. 1,691,232; Nov. 13.
Musical instrument. W. J. Ostendorf. 1,691,669; Nov. 13.
Musical instrument. J. Rapsevez. 1,691,168; Nov. 13.
Musical instrument. O. A. Ross. 1,691,826; Nov. 13.
Musical-sound-producing instrument. F. B. Little. 1,691,295; Nov. 13.
Nail. G. C. Fedderman. 1,691,470; Nov. 13.
Nailing insert. G. W. Brooks. 1,691,265; Nov. 13.
Necktie rack. C. H. Pajeau. 1,691,123; Nov. 13.
Newel post. R. E. Morris. 1,691,665; Nov. 13.
Novelty, Smoker's. E. Caldwell. 1,691,564; Nov. 13.
Nozzle. S. Sachs. 1,691,498; Nov. 13.
Nut. G. W. Silbaugh. 1,691,829; Nov. 13.
Nut-tapping machine. H. E. Pruitt. 1,691,825; Nov. 13.
Odometer. A. L. Barrett. 1,691,510; Nov. 13.
Oil burner. I. E. Carlson. 1,691,541; Nov. 13.
Oil burner, Steam-atomizing. L. G. de Kermor. 1,691,048; Nov. 13.
Oil-burning apparatus. C. M. Stroud. 1,691,311; Nov. 13.
Oil, Making thickened lubricating. R. W. Henry and E. D. Streeter. 1,691,654; Nov. 13.
Oil, Producing thickened lubricating. R. W. Henry and E. D. Streeter. 1,691,882; Nov. 13.
Opening sheet packs, Method and apparatus for. C. F. Peck. 1,691,250; Nov. 13.
Ophthalmic mounting. J. W. Welsh. 1,691,596; Nov. 13.
Ore, Reducing the cadmium content of zinc. O. Gerlach and N. Ostman. 1,691,714; Nov. 13.
Ores, Concentration of. E. H. Snyder and W. D. Green. 1,691,310; Nov. 13.
Ornament, Radiator-cap. F. Rivanov. Des. 76,893; Nov. 13.
Overshoe. H. Westling. 1,691,894; Nov. 13.
Overshoe and making same. F. T. Roberts and A. J. Eldon. 1,691,253; Nov. 13.
Overshoe, Buckle. A. D. Winn. 1,691,219; Nov. 13.
Package. N. S. Meyer. 1,691,781; Nov. 13.
Package. M. Rosen. 1,691,306; Nov. 13.
Package handle. G. W. Carver. 1,691,467; Nov. 13.
Packing for plunger pumps, Longitudinal fibrous. H. M. Green. 1,691,603; Nov. 13.
Packing, Macking rod. G. C. Jerome. 1,691,574; Nov. 13.
Pad: *See*—
Spring pad.
Paint and varnish remover containing an alkali-metal benzoate as a thickening agent. B. N. Lougovoy. 1,691,771; Nov. 13.
Paintbrushes, Attachment for. P. A. Rossi. 1,691,857; Nov. 13.
Painting apparatus. T. Birkenmaier. 1,691,374; Nov. 13.
Paints, Making emulsion. L. Kirschbraun. 1,691,765; Nov. 13.
Panel-board box. C. Aalborg. 1,691,422; Nov. 13.
Panel, Flexible. F. B. Harman. 1,691,604; Nov. 13.
Paper board, Making waterproof. E. Bache. 1,691,752; Nov. 13.
Parachute. A. E. Fixel. 1,691,711; Nov. 13.
Pedal holder. L. W. Lindmeyer. 1,691,822; Nov. 13.
Photography, Image-modifying apparatus for. A. Ames, jr. 1,691,366; Nov. 13.
Picking machine, Cotton-. G. E. Boggs. 1,691,146; Nov. 13.
Picture-transmitting system, Electrical. A. B. Clark, N. Nyquist, and D. K. Gannett. 1,691,147; Nov. 13.
Pictures by electricity, Transmission of. H. E. Ives and M. B. Long. 1,691,971; Nov. 13.
Piling. E. F. Considine. 1,691,704; Nov. 13.
Pipe and plate connection. F. Oskrit. 1,691,609; Nov. 13.
Pipe-engaging slip. C. R. Edwards and S. Evans. 1,691,384; Nov. 13.
Pipe or conduit, Concrete. F. H. Sherrerd. 1,691,590; Nov. 13.
Pipe union, Self-tightening. G. A. McCuean. 1,691,851; Nov. 13.
Piston and producing same. H. A. and W. T. Soulis. 1,691,450; Nov. 13.
Piston mechanism and its application to variable-speed gearing, Rotary. H. Hiorns. 1,691,479; Nov. 13.
Piston ring. E. J. Hall. 1,691,518; Nov. 13.
Piston ring and making the same. R. B. Wasson. 1,691,746; Nov. 13.
Piston-ring mounting and removing tool. E. Miller. 1,691,161; Nov. 13.
Pivotal connection. H. C. Harris. Re17,136; Nov. 13.
Planfile. R. E. Ulrich. 1,691,743; Nov. 13.
Plasterer's float. J. Mayes. 1,691,777; Nov. 13.
Plastic reenforced building construction. P. Kosack. 1,691,117; Nov. 13.
Plate clamp. L. A. Schmidt. 1,691,556; Nov. 13.
Player action, Universal. T. F. Check. 1,691,640; Nov. 13.
Plow. J. S. Parker. 1,691,824; Nov. 13.
Plug. O. C. Dudley. 1,691,231; Nov. 13.
Pneumatic guard. D. J. Kennedy. 1,691,658; Nov. 13.
Pneumatic spring. G. R. Joughins. 1,691,482; Nov. 13.
Pocket, Stake. L. D. Gregg. 1,691,473; Nov. 13.
Polish box, Shoe. G. C. Reid. 1,691,304; Nov. 13.
Porous material, Making. B. Granville. 1,691,280; Nov. 13.
Portable cleaner. A. W. Holmes, D. E. Jaques, and H. B. Coats. 1,691,193; Nov. 13.





Portfolio and brief case, Combination. J. D. Douglas. 1,691,049; Nov. 13.
Post: *See*—
Newel post.
Power control device. A. Rosenthal. 1,691,586; Nov. 13.
Power-limiting device, Electrical. G. Crisson. 1,691,150; Nov. 13.
Power take-off, Two-speed. S. B. Gorbutt. 1,691,346; Nov. 13.
Power transmission. J. and F. A. Reece. 1,691,610–12; Nov. 13.
Power-transmission means. B. O. Ward. 1,691,834; Nov. 13.
Preserving beverages. F. J. Andress. 1,691,538; Nov. 13.
Press: *See*—
Mandrel-upsetting press.
Punch press.
Printing press.
Press for drawing sheet metal. C. J. Rhodes. 1,691,496; Nov. 13.
Pressing fabrics, Plant for. A. D. Heaton and J. O. Lang. 1,691,477; Nov. 13.
Pressing machine. A. B. Clisson. 1,691,642; Nov. 13.
Pressing machine, Garment-. W. H. Clisson. 1,691,267; Nov. 13.
Pressing-machine mechanism. A. B. Clisson. 1,691,641; Nov. 13.
Pressing machine, Multiple-. P. N. Braun. 1,691,635; Nov. 13.
Pressing machine, Seam-. W. P. Osgood. 1,691,493; Nov. 13.
Pressing machines having stop and start motors, Mechanism for. A. J. Socia and J. P. Daly. 1,691,677; Nov. 13.
Pressing of fabrics. A. D. Heaton and J. O. Lang. 1,691,476; Nov. 13.
Pressure regulator. L. H. F. and S. Rohe. 1,691,673; Nov. 13.
Printing machine. W. H. Waldron. 1,691,745; Nov. 13.
Printing machine having a changeable form. H. C. Osborn. 1,691,301; Nov. 13.
Printing machine, Typographical. P. A. C. Duwoos. 1,691,383; Nov. 13.
Printing press. W. M. Kelly. 1,691,656; Nov. 13.
Printing press. A. S. N. Olson. 1,691,299; Nov. 13.
Protecting and fireproofing materials. C. Lichtenstadt. 1,691,726; Nov. 13.
Protecting high-tension lines against flashovers. A. Vaupel. 1,691,316; Nov. 13.
Protecting petroleum tanks and tank farms against lightning, Method and system for. W. Dodd. 1,691,340; Nov. 13.
Protection device for tumbler locks. E. M. and W. T. Benham. 1,691,030; Nov. 13.
Protective device. G. R. Felds and J. S. Baker. 1,691,275; Nov. 13.
Protector. W. L. Cook. 1,691,705; Nov. 13.
Protector for backs of shoes. E. Nowak. 1,691,582; Nov. 13.
Protector, Phase-failure and phase-reversal. C. J. Dresser. 1,691,433; Nov. 13.
Protector, Skate-blade. R. D. Tolman. 1,691,558; Nov. 13.
Pulley, Catch. W. H. Forse, jr. 1,691,183; Nov. 13.
Pulp, Making chemical. J. S. Bates. 1,691,511; Nov. 13.
Pulp, Process and apparatus for producing wood. C. B. Thorne. 1,691,682; Nov. 13.
Pulverizing implement, Soil-. W. D. Dewend. 1,691,565; Nov. 13.
Pump, Double-acting plunger. B. Miller. 1,691,489; Nov. 13.
Pump, Power tire. C. P. Brockway. 1,691,108; Nov. 13.
Pumping mechanism. W. B. Van Arsdel. 1,691,744; Nov. 13.
Punch press. O. G. Nilson. 1,691,667; Nov. 13.
Purifier, Electric water. W. M. Myers. 1,691,731; Nov. 13.
Purifying and moistening air, Apparatus for. A. Schückher. 1,691,827; Nov. 13.
Rack: *See*—
Display rack.
Necktie rack.
Radiator. H. J. Earl. Des. 76,859; Nov. 13.
Radiator-shutter control. F. W. Miller. 1,691,580; Nov. 13.
Radio aerial support. C. Wicke. 1,691,864; Nov. 13.
Radio apparatus. A. F. Sanford. 1,691,413; Nov. 13.
Railway crossing. D. C. Mulvihill. 1,691,078; Nov. 13.
Railway switch. J. McMurtry. 1,691,852; Nov. 13.
Range construction. S. Harter. 1,691,762; Nov. 13.
Receptacle for cosmetics or the like, Dressing-table. L. L. Millring. Des. 76,884; Nov. 13.
Receptacle for powdered and granular materials, Dispensing. G. E. Wilson. 1,691,261; Nov. 13.
Receptacle, Self-closing. W. R. Meuttman. 1,691,160; Nov. 13.
Rectifier and connection therefor. M. Schiesser. 1,691,447; Nov. 13.
Reel: *See*—
Fishing reel.
Refining metals and alloys. A. Pacz. 1,691,207; Nov. 13.
Reflector, Configurated. C. D. Ryder. 1,691,131; Nov. 13.
Reflector, Headlight. E. Schimpf. 1,691,307; Nov. 13.
Refrigerating apparatus. N. H. Hiller. 1,691,286; Nov. 13.
Register: *See*—
Cash register.
Register. J. S. Winer. 1,691,835; Nov. 13.
Register and cut-off for air-heating systems, Heat. H. C. Helms. 1,691,285; Nov. 13.
Regulator: *See*—
Feed-water regulator.
Voltage regulator.
Pressure regulator.
Relay, Alternating-current. E. O. Thompson. 1,691,091; Nov. 13.
Resinous material and making same. C. Ellis. 1,691,271; Nov. 13.
Rest, Arm. W. E. and D. J. Roach. 1,691,613; Nov. 13.
Rest attachment for saxophones. F. L. Gesford. 1,691,515; Nov. 13.
Reverse brake. M. A. Mikesh. 1,691,907; Nov. 13.
Revetment mat. A. Johnson. 1,691,848; Nov. 13.
Rims, Making. E. A. Nelson. 1,691,491; Nov. 13.
Ring: *See*—
Piston ring.
Riveting, Electric. F. P. Kobert. 1,691,522; Nov. 13.
Rock drill. C. C. Hansen. 1,691,570; Nov. 13.
Rock drill. C. F. Osgood. 1,691,405–7; Nov. 13.
Roll. L. V. Casto. 1,691,336; Nov. 13.
Roofing. J. B. French. 1,691,343; Nov. 13.
Roofing bracket. A. P. Henderson. 1,691,478; Nov. 13.
Rosette, Drop-cord. E. G. Smith. 1,691,675; Nov. 13.
Saddle. R. F. Warren. Des. 76,907; Nov. 13.
Safety device. J. B. Roulo. 1,691,129–30; Nov. 13.
Safety device for aeroplanes. P. and J. Eller. 1,691,709; Nov. 13.
Safety device for automobile lifts. E. E. Hollister. 1,691,807; Nov. 13.
Safety device for overdriven extractors. C. M. Otis and F. J. Couch. 1,691,122; Nov. 13.
Safety lock. S. J. Strid. 1,691,893; Nov. 13.
Safety mechanism for street-car and door operation. G. W. Meyers. 1,691,729; Nov. 13.
Safety stop mechanism. O. H. Ludeman. 1,691,630; Nov. 13.
Salvaging apparatus. G. G. Powell. 1,691,738; Nov. 13.
Sampling device, Pipe-line-. J. S. Watts. 1,691,687; Nov. 13.
Sanitary device. W. R. Pulkinghorn. 1,691,359; Nov. 13.
Saw-rig attachment for tractors. T. G. Mueller, A. R. Buchholz, P. O. Dallmann, G. C. Moerschel, W. C. Dallmann, M. J. Kujawski, and W. H. Schmidt. 1,691,581; Nov. 13.
Scaffold, Window. S. G. Swanlind. 1,691,678; Nov. 13.
Scoop, Air. S. R. Warren. 1,691,218; Nov. 13.
Scoop, Earth. P. H. Hiscock. 1,691,153; Nov. 13.
Scoring mechanism, Veneer-log-. H. C. Breidenbach. 1,691,897; Nov. 13.
Screen: *See*—
Insect screen.
Screw-forming machine. E. Gauthier. 1,691,055; Nov. 13.
Sea wall, Jetty, and similar structure. H. V. Campbell. 1,691,335; Nov. 13.
Seal for hard glass. W. B. Gero. 1,691,436; Nov. 13.
Seal for reversible-stem valves, Valve. R. S. Clark. 1,691,542; Nov. 13.
Sealer, Envelope. O. M. Dantzler. 1,691,469; Nov. 13.
Sealing containers. A. Daniels. 1,691,707; Nov. 13.
Sealing expansion joints. E. R. Oden. 1,691,402; Nov. 13.
Sealing of slip-cover cans or containers. G. F. Miller. 1,691,297; Nov. 13.
Seat: *See*—
Closet seat.
Wagon seat.
Seat for invalid chairs, Sanitary. C. C. Wilson. 1,691,620; Nov. 13.
Securing together pieces of material, Device for. J. B. Mattingly. 1,691,775; Nov. 13.
Semitrailer. C. H. Land, jr. Re17,132; Nov. 13.
Separating associated liquids. C. W. McKibben. 1,691,578; Nov. 13.
Sewing machine, Button-. R. L. Lyons. 1,691,246; Nov. 13.
Shaker, Salt or pepper. A. F. Reilly. Des. 76,889; Nov. 13.
Shaping machine for irregular forms. S. E. Boynton. 1,691,429; Nov. 13.
Shearing machines, Work-feeding mechanism for. A. J. Bates, jr. 1,691,264; Nov. 13.
Shears: *See*—
Sheep shears.
Sheep shears. F. G. Evans. 1,691,341; Nov. 13.
Sheet-packing rack. J. H. Victor. Des. 76,906; Nov. 13.
Shelf for desks, Extension. J. A. Fitch. 1,691,387; Nov. 13.
Shield, Dress. F. L. Hanauer. 1,691,348; Nov. 13.
Shield for automobile lamps, Antiglare. D. Reynolds and H. L. Simpson. 1,691,209; Nov. 13.
Shingle lock. F. E. Lietz. Re17,133; Nov. 13.
Shipping cover bag. A. Christ, jr. 1,691,379; Nov. 13.
Shocker. J. A. McElroy. 1,691,355; Nov. 13.
Shoe and like lace and tip therefor. A. W. Uellendahl. 1,691,451; Nov. 13.
Shoe box. D. A. Stevens. 1,691,533; Nov. 13.
Shoe, Swimming. A. F. Fibiger. 1,691,385; Nov. 13.
Shoes, Making. A. L. Postman. 1,691,167; Nov. 13.
Showcase, Vending. E. F. Bishop. 1,691,461; Nov. 13.
Shower-bath protector. W. L. Deming. 1,691,339; Nov. 13.
Sign. J. L. Beck. 1,691,456; Nov. 13.
Sign character and securing means therefor. J. D. Carney. 1,691,638; Nov. 13.
Sign, Electric. J. F. Ireland. 1,691,520; Nov. 13.

Signal: *See*—
Direction signal. Traffic signal.
Signal device, Electrodynamic. C. R. ..anna. 1,691,243; Nov. 13.
Signal panel for automotive-vehicle signal device. M. Holmdahl. Des. 76,868; Nov. 13.
Signaling device. M. E. Mitchell. 1,691,400; Nov. 13.
Signaling device. W. Sparks. 1,691,363; Nov. 13.
Signaling device. W. Sparks, T. J. Scofield, L. E. Johnson, and F. W. Billig. 1,691,215; Nov. 13.
Signaling device. G. A. White and W. Sparks. 1,691,321; Nov. 13.
Signaling system, Two-way radio. R. C. Mathes. 1,691,076; Nov. 13.
Siphon atachment. A. L. Armbruster and C. W. Madison. 1,691,695; Nov. 13.
Skeleton structure such as aircraft fuselages. F. Sigrist and S. Camm. 1,691,362; Nov. 13.
Slope sheet and making the same. W. E. Wine. 1,691,793; Nov. 13.
Snap hook. J. M. Glaser. 1,691,111; Nov. 13.
Socket, Electrical. W. Huppert. Des. 76,871; Nov. 13.
Socket for curtain fasteners. J. Vodicka. Re17,134; Nov. 13.
Socket, Vacuum-tube. M. Alden. 1,691,877; Nov. 13.
Sofa. H. P. Faris. Des. 76,861–2; Nov. 13.
Softening or purifying of water or for carrying out processes based upon exchange reactions, Apparatus for the. R. H. Thomson and H. S. Lawrence. 1,691,862; Nov. 13
Solder for aluminum. O. Spengler. 1,691,532; Nov. 13.
Sound-reproducing device. T. A. Harris. 1,691,059; Nov. 13.
Spark plug. F. L. Fox. 1,691,760; Nov. 13.
Spectacles. C. H. A. Telber. 1,691,789; Nov. 13.
Speed-control means for high-frequency generators. O. Böhm. 1,691,222; Nov. 13.
Speed-controlling device, Automatic. D. E. Lewellen. 1,691,294; Nov. 13.
Speed-controlling device for motor vehicles. F. L. Ohmer. 1,691,668; Nov. 13.
Spindles in spinning machines and the like, Supporting means for. J. J. Keyser. 1,691,199; Nov. 13.
Spirit level. J. Mayes. 1,691,776; Nov. 13.
Splitting machine Wood-. G. S. Witham, sr. 1,691,102; Nov. 13.
Spotlight, Limited-range. A. C. Wood. 1,691,420; Nov. 13.
Spraying apparatus. G. C. Waters, jr. 1,691,097; Nov. 13.
Spring: *See*—
Pneumatic spring. Vehicle spring.
Spring connection, Vehicle. G. C. Goode. 1,691,185; Nov. 13.
Spring lubricator. H. I. Brooks and M. D. Norman. 1,691,223; Nov. 13.
Spring pad. A. B. Clisson. 1,691,643; Nov. 13.
Spring washer, Compression. C. H. Loutrel. 1,691,444; Nov. 13.
Springs, Manufacture of. J. M. Schoonmaker, jr., and D. T. Gleason. 1,691,211; Nov. 13.
Square, Miter. W. Lissy. 1,691,118; Nov. 13.
Square, Multiplane bevel. G. W. Fothergill. 1,691,801; Nov. 13.
Stabilizer-adjusting mechanism. D. J. Brimm, jr. 1,691,376; Nov. 13.
Stacking machine, Pig-. W. E. Newnam. 1,691,552; Nov. 13.
Stake for vehicle sideboards. F. J. Charlebois and A. H. Martin. 1,691,639; Nov. 13.
Starter, Automobile. T. Ward. 1,691,417; Nov. 13.
Station, Automatic. C. A. Butcher. 1,691,377; Nov. 13.
Stay-bolt construction. F. W. Shupert. 1,691,828; Nov. 13.
Steering gear. A. G. Henricks and H. L. Mitchell. 1,691,062; Nov. 13.
Steering-wheel-control assembly. E. W. Seaholm and H. M. Denyes. 1,691,139; Nov. 13.
Stereotype plate. J. J. Halliwell. 1,691,548; Nov. 13.
Stocking. E. O. Nebel. Des. 76,885; Nov. 13.
Stocking. J. A. Struthers. Des. 76,905; Nov. 13.
Stoker. M. J. Wightman. 1,691,619; Nov. 13.
Stoker, Underfeed. R. L. Beers. 1,691,373; Nov. 13.
Storage battery. B. Ford. 1,691,800; Nov. 13.
Storage battery. J. L. Woodbridge. 1,691,794; Nov. 13.
Stove. Z. C. Wilkinson. 1,691,692; Nov. 13.
Stove, Heating. C. E. Pedersen. 1,691,208; Nov. 13.
Straightedge. H. E. Benway. 1,691,459; Nov. 13.
Stranding machine. E. A. Conner. 1,691,337; Nov. 13.
Sulky. H. W. Hanan. 1,691,390; Nov. 13.
Superheater, Separately-fired. B. N. Broide. 1,691,698; Nov. 13.
Support, Adjustable mail-box. J. A. Sluss. 1,691,531; Nov. 13.
Support, Cloth-roll. C. P. Bergstrom and V. A. Foisy. 1,691,145; Nov. 13.
Support for electric pick-up. C. F. Gondy. Des. 76,864; Nov. 13.
Support for implement retainers. W. F. Zimmermann. 1,691,694; Nov. 13.
Support, Rod. F. M. Barton. 1,691,331; Nov. 13.
Support, Telephone. G. W. Smith. 1,691,213; Nov. 13.
Supporting device for socks and the like. O. R. Podestá. 1,691,082; Nov. 13.
Surgical instrument for making ligatures. B. Fisher. 1,691,386; Nov. 13.
Switch: *See*—
Electric switch. Railway switch.
Switch. J. K. Kahaleohu. 1,691,291; Nov. 13.
Switch mechanism, High-tension. D. Beattie. 1,691,837; Nov. 13.
Switching device, Automatic train-. I. I. Litvinchev. 1,691,296; Nov. 13.
Switching mechanism. H. Sengebusch. 1,691,256; Nov. 13.
Swiveling chair. A. J. Adams. 1,691,035; Nov. 13.
Table and drawers for beds. M. E. Hendricks. 1,691,847; Nov. 13.
Table and ironing board, Combined. A. F. Lind. 1,691,821; Nov. 13.
Table top or article of similar nature. B. Dyer. Des. 76,858; Nov. 13.
Taboret. R. Rychtarik. Des. 76,897; Nov. 13.
Tag, Animal. C. R. Boshart. 1,691,838; Nov. 13.
Tag, Shipping. S. N. Tevander. 1,691,090; Nov. 13.
Tank for inflammable liquids. P. B. Ashworth. 1,691,509; Nov. 13.
Telephone exchange, Party-line-. N. E. Norstrom. 1,691,080; Nov. 13.
Telephone system. W. Saville. 1,691,554; Nov. 13.
Telephone system, Automatic. R. G. Richardson and M. L. Nelson. 1,691,410; Nov. 13.
Television system. V. K. Zworykin. 1,691,324; Nov. 13.
Tent. C. C. Roth and D. A. Campbell. 1,691,411; Nov. 13.
Terminal block. A. L. Starke. 1,691,088; Nov. 13.
Terminal for bushings. A. O. Austin. 1,691,327; Nov. 13.
Terminal for insulator bushings. A. O. Austin. 1,691,328; Nov. 13.
Test circuits for telephone systems, Wire chief's. T. F. Crocker. 1,691,269; Nov. 13.
Testing the spread of ink, Method and apparatus for. M. O. Schur. 1,691,739; Nov. 13.
Textile fabric. J. H. Bunting. Des. 76,849–50; Nov. 13.
Textile fabric or similar article of manufacture. M. E. Hadad. Des. 76,865; Nov. 13.
Thermometer, Indoor-outdoor. H. Schlaich. 1,691,136; Nov. 13.
Throwing-off device. G. P. Slater. 1,691,830; Nov. 13.
Ticket, Carnival. E. D. Bates. 1,691,455; Nov. 13.
Tiller. T. W. Hicks. 1,691,351–2; Nov. 13.
Tilting mechanism for dumping bodies. G. W. Berry. Re17,130; Nov. 13.
Timing device. W. T. Palmer. 1,691,408; Nov. 13.
Tire. S. Holm. Des. 76,867; Nov. 13.
Tire. J. H. Kohsiek. Des. 76,875; Nov. 13.
Tire. R. H. Nesmith. Des. 76,886; Nov. 13.
Tire-pressure gauge. J. E. and M. A. Kenney. 1,691,441; Nov. 13.
Toaster. E. W. Roberts. 1,691,361; Nov. 13.
Tool and the like, Soldering and welding. J. W. Fay. 1,691,052; Nov. 13.
Tool, Clip-attaching. C. Jones. 1,691,353; Nov. 13.
Tool, Pneumatic. L. C. Bayles. 1,691,372; Nov. 13.
Tool, Tire. B. Polisena and H. Campedel. 1,691,855; Nov. 13.
Tool, Well-drilling. L. C. Black. 1,691,623; Nov. 13.
Toothbrush. R. H. Van Sant. 1,691,863; Nov. 13.
Toothbrush case. O. A. King. 1,691,814; Nov. 13.
Tooth paste, Mucin-solvent. C. C. Vogt. 1,691,504; Nov. 13.
Towel support. A. Ruetz and R. G. Dallmann. 1,691,412; Nov. 13.
Toy, floatable. J. Hall. 1,691,189; Nov. 13.
Toy machine gun. W. F. Schmidt. 1,691,170; Nov. 13.
Toy-pistol construction. R. A. Frisbie. 1,691,237; Nov. 13.
Toy, Sounding figure. B. E. Lloyd. 1,691,443; Nov. 13.
Tractor. H. R. Halvorson. 1,691,846; Nov. 13.
Traffic-controlling apparatus, Railway-. H. A. Wallace. 1,691,096; Nov. 13.
Traffic signal. B. Fuhrer. 1,691,344; Nov. 13.
Traffic signal. J. and H. W. Rank. 1,691,126; Nov. 13.
Traffic signal, Automatic. J. T. Wayland and T. D. Jones. 1,691,791; Nov. 13.
Train control, Automatic. D. H. Schweyer. 1,691,409; Nov. 13.
Transfer device for glassware. G. E. Rowe. 1,691,497; Nov. 13.
Transformer. W. J. Polydoroff. 1,691,125; Nov. 13.
Transformer and inductance. A. D. Cardwell. 1,691,699; Nov. 13.
Transmission, Friction. R. Chilton. 1,691,625; Nov. 13.
Transmitting signals indicating results of observation, Apparatus for electrically. H. Karabets. 1,691,813; Nov. 13.
Transparent make-up plate for use in producing page stereotype. R. V. Graves. 1,691,281; Nov. 13.
Trap: *See*—
Gas trap.
Tray, Dental impression. E. R. Smith. 1,691,676; Nov. 13.
Tray for electrical refrigeration, Ice. J. Jacques and A. R. Cosgrove. 1,691,481; Nov. 13.
Treating apparatus, Material-. H. H. C. Grondahl. 1,691,058; Nov. 13.
Treating hydrocarbons. A. Schwarz. 1,691,085; Nov. 13.
Treating liquids. C. Benedicks. 1,691,458; Nov. 13.
Treating liquids. L. Caldwell. 1,691,266; Nov. 13.
Trolley harp and wheel assembly. T. Haulton. 1,691,805; Nov. 13.
Truck. C. H. Young. 1,691,621; Nov. 13.





Truck body. F. Schelben. 1,691,859; Nov. 13.
Truck, Transport. C. Pearson. 1,691,583; Nov. 13.
Trunk and luggage carrier. B. P. Hanson. 1,691,804; Nov. 13.
Trunk, Extension. P. F. Spery. 1,691,788; Nov. 13.
Tube carrier, Pneumatic-. M. Anderson. 1,691,038; Nov. 13.
Tube-frame bracket. E. E. Clark. 1,691,148; Nov. 13.
Tubes, Producing metal. J. W. Leighton. 1,691,725; Nov. 13.
Tubing and method and apparatus for the making of same, Small-bore. H. Schlaich. 1,691,134; Nov. 13.
Tucker. O. C. F. Meisel. 1,691,890; Nov. 13.
Tuning attachment for pipe-organ pipes. S. Silvers. 1,691,674; Nov. 13.
Turbine construction. K. Frey. 1,691,184; Nov. 13.
Type bearer. A. A. Wilson. 1,691,693; Nov. 13.
Typewriter. O. A. Hokanson. 1,691,063; Nov. 13.
Typewriter, Flat-platen. H. A. Foothorap. 1,691,236; Nov. 13.
Typewriting machine. G. G. Going. 1,691,112; Nov. 13.
Typographical machine. G. P. Kingsbury. 1,691,849; Nov. 13.
Vacuum lifter. L. Jones. 1,691,198; Nov. 13.
Vacuums, Obtaining. C. W. Balke. 1,691,177; Nov. 13.
Valve. J. H. Cook. 1,691,626; Nov. 13.
Valve. A. J. West. 1,691,689; Nov. 13.
Valve, Air-release. G. F. Hitchcock. 1,691,391; Nov. 13
Valve connecter for delivery tubes. R. W. Tadd. 1,691,364; Nov. 13.
Valve for pumps. J. M. Sharp. 1,691,449; Nov. 13.
Valve for water lifts. L. E. Morrison. 1,691,664; Nov. 13.
Valve mechanism. E. Johnson. 1,691,811; Nov. 13.
Valve-operating means. J. Bentley. 1,691,866; Nov. 13.
Valve, Racing game. T. C. Jensen. 1,691,521; Nov. 13.
Valve, Rebound-device relief. E. W. Ackerman and G. C. Nicholson. 1,691,876; Nov. 13.
Valve, Reducing. A. J. and I. F. Fausek. 1,691,758; Nov. 13.
Valve tappet and forming the same. C. B. McDonald. 1,691,779; Nov. 13.
Valve tappets, Forming. C. B. McDonald. 1,691,778; Nov. 13.
Valve, Telltale positive and automatic gas-cut-off. H. Kennell. 1,691,442; Nov. 13.
Valve, Thermostatic. A. Beier. 1,691,908; Nov. 13.
Valve, Water-mixing. A. T. Johanson. 1,691,197; Nov. 13.
Vaporizer, Fuel. L. C. Smith. 1,691,615; Nov. 13.
Vault, Burial. W. J. Gorman. 1,691,568; Nov. 13.
Vegetable cutter. M. Kery. 1,691,483; Nov. 13.
Vehicle brake. J. S. Reynolds. 1,691,083; Nov. 13.
Vehicle control. J. G. Carroll. 1,691,046; Nov. 13.
Vehicle, Motor-driven. L. W. Melcher. 1,691,579; Nov. 13.
Vehicle propelled by steppers. A. Ehrlich. 1,691,233; Nov. 13.
Vehicle spring. S. J. Lessing. 1,691,550; Nov. 13.
Vehicle suspension means. L. M. Walden. 1,691,217; Nov. 13.
Vending machine. S. Spina and A. Cook. 1,691,592; Nov. 13.
Ventilating apparatus. M. H. Miller. 1,691,162; Nov. 13.
Ventilator: *See*—
Mattress ventilator. Window ventilator.
Ventilator. J. C. Giguére. 1,691,239; Nov. 13.
Ventilator. H. N. Hansen. 1,691,283; Nov. 13.
Voltage regulator. G. B. Crouse and J. L. Jatlow. 1,691,909–10; Nov. 13.
Wadding device for the cartridges of fowling pieces. C. Gabel. 1,691,802; Nov. 13.
Wagon seat. B. J. J. Kerr. 1,691,157; Nov. 13.
Wainscoting construction. W. T. Gray. 1,691,803; Nov. 13.
Washer: *See*—
Spring washer.
Washing device, Window-. T. B. Monk. 1,691,164; Nov. 13.
Washing machine. R. J. Dow. 1,691,544; Nov. 13.
Washing machine. O. Maycen. 1,691,523–4; Nov. 13.
Washing machine. J. F. Steinhelfer. 1,691,089; Nov. 13.
Washing machine, Floor-. R. Alvarado. 1,691,263; Nov. 13.
Watch dial. H. I. Cramer. Des. 76,854; Nov. 13.
Waterproof and adhesive composition, Combined. C. A. Crawford. 1,691,543; Nov. 13.
Waving hair. W. G. Shelton. 1,691,589; Nov. 13.
Weather strip for doors and the like, Automatic. L. E. Van Auken. 1,691,315; Nov. 13.
Welding apparatus. W. P. Shipman. 1,691,501; Nov. 13.
Welding compound. I. Freeman. 1,691,388; Nov. 13.
Welding machine, Automatic electric. J. Ledwinka. 1,691,486; Nov. 13.
Wheel. H. V. Ludwick. 1,691,488; Nov. 13.
Wheels, Making metal. E. C. Mogford and F. W. Burger. 1,691,163; Nov. 13.
Window cleaner. F. Langley. 1,691,819; Nov. 13.
Window structure. C. Miller. 1,691,490; Nov. 13.
Window, Two-way adjustable. C. H. Wishmeier. 1,691,559; Nov. 13.
Window ventilator. F. M. Crumley. 1,691,840; Nov. 13.
Windshield for automobiles. H. T. Thomas. 1,691,312; Nov. 13.
Windshield-wiper heater. J. C. Damush. 1,691,842; Nov. 13.
Wire-bending machine. G. F. Matteson. 1,691,159; Nov. 13.
Wire-drawing-die guard. H. Blount. 1,691,643; Nov. 13.
Wire fabric and making it, Woven-. J. C. Anderson. 1,691,507; Nov. 13.
Woodworking apparatus. G. Krasnosky. 1,691,850; Nov. 13.
Woodworking machine. M. Hutchinson. 1,691,519; Nov. 13.
Work-driving device. J. Bath. 1,691,144; Nov. 13.
Working mechanism, Material-. A. E. Schulz. 1,691,588; Nov. 13.
Workstand. F. A. Bienvenu. 1,691,634; Nov. 13.
Wrench. C. F. Ash, jr. 1,691,326; Nov. 13.
Wrench. J. Strobel. 1,691,216; Nov. 13.
Wringer: *See*—
Mop wringer.

# CLASSIFICATION OF PATENTS

## ISSUED NOVEMBER 13, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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97: 1,691,171
137: 1,691,563
224— 29: 1,691,788
1,691,804
224— 56: 1,691,467
226— 77: 1,691,718
80: 1,691,297
84: 1,691,652
129: 1,691,875
229— 14: 1,691,178
1,691,736
15: 1,691,533
35: 1,691,152
53: 1,691,782
54: 1,691,741
230— 56: 1,691,737
214: 1,691,108
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40: 1,691,531
234— 1: 1,691,124
235— 14: 1,691,416
59: 1,691,555
61: 1,691,761
70: 1,691,104
144: 1,691,510
236— 12: 1,691,197
35: 1,691,580
42: R. 17,135
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237— 12. 3: R. 17,131
238— 8: 1,691,078
240— 3: 1,691,475
4: 1,691,883
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81: 1,691,137
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241— 1: 1,691,082
242— 1: 1,691,165
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84. 4: 1,691,622
243— 35: 1,691,038
244— 1: 1,691,205
2: 1,691,105
6: 1,691,218
21: 1,691,709
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29: 1,691,376
31: 1,691,362
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248— 20: 1,691,155
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250— 9: 1,691,076
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252— 6: 1,691,424
253— 67: 1,691,184
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191: 1,691,183
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256— 24: 1,691,728
257— 39: 1,691,180
259— 23: 1,691,535
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101: 1,691,544
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260— 3: 1,691,427
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60: 1,691,428
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123: 1,691,647
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56: 1,691,185
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270— 47: 1,691,888
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271— 2. 6: 1,691,772
27: 1,691,503
47: 1,691,606
272— 27: 1,691,229
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273— 86: 1,691,521
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280— 5: 1,691,509
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49: 1,691,621
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281— 25: 1,691,537
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286— 1: 1,691,603
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291— 34: 1,691,298
292— 18: 1,691,724
21: 1,691,655
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113: 1,691,833
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228: 1,691,485
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298— 22: R. 17,130
299— 88: 1,691,223
96: 1,691,097
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301— 9: 1,691,488
303— 1: 1,691,784
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304— 20: 1,691,478
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312— 77: 1,691,831
97: 1,691,186
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# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Wire Company, The, New Haven, Conn. Radio hook-up wire. 249,885; Nov. 20; Serial No. 268,333; published Sept. 4, 1928. Class 21.

Adams Bag Company, The, Chagrin Falls, Ohio. Paper sacks and bags. 249,894; Nov. 20. Class 2.

Air-Chrome Studios, Inc., The, Irvington, N. J. Radio loud speakers. 249,858; Nov. 20; Serial No. 267,625; published Sept. 4, 1928. Class 21.

Alexander, Lester J., New York, N. Y. Pajamas, dress shirts, and textile underwear. 249,559; Nov. 20; Serial No. 268,606; published Sept. 4, 1928. Class 39.

Alloy Boat Corporation, Buffalo, N. Y. Outboard boats. 249,811; Nov. 20; Serial No. 269,817; published Sept. 11, 1928. Class 19.

Alshuler, Chas., Mfg. Co., The, Racine, Wis. Outer shirts. 249,668; Nov. 20; Serial No. 268,834; published Sept. 4, 1928. Class 39.

Alta Vista Company. (See De La Montanya, Pierre.)

American Crayon Company, The, Sandusky, Ohio. Wood-finishing solution. 249,870; Nov. 20; Serial No. 260,786; published Sept. 4, 1928. Class 16.

American Druggists Syndicate, Long Island City, N. Y. Astringents, cerates, bleach creams, etc. 249,800; Nov. 20; Serial No. 270,161; published Sept. 4, 1928. Class 6.

American Perforator Co., The, Chicago, Ill. Indorsing-machine ink. 249,674; Nov. 20; Serial No. 268,669; published Sept. 11, 1928. Class 11.

Amform. (See Lacks, Felix A.)

Amorskin Corporation, New York, N. Y. Soaps. 249,586; Nov. 20; Serial No. 269,072; published Sept. 4, 1928. Class 4.

Amorskin Corporation, New York, N. Y. Face cream. 249,775; Nov. 20; Serial No. 270,278; published Sept. 11, 1928. Class 6.

Archer Rubber Products Co. Inc., New York, N. Y. Mats and floor covering made of rubber, etc. 249,782; Nov. 20; Serial No. 269,762; published Sept. 11, 1928. Class 20.

Arden, Elizabeth, Inc., New York, N. Y. Face creams and lotions. 249,634; Nov. 20; Serial No. 270,107; published Sept. 4, 1928. Class 6.

Ardmore Flour & Feed Co., Ardmore, Okla. Wheat flour, corn meal, etc. 249,866; Nov. 20; Serial No. 268,902; published Sept. 4, 1928. Class 46.

Automatic Electric Inc., Chicago, Ill. Automatic telephone systems. 249,721; Nov. 20; Serial No. 264,746; published Sept. 11, 1928. Class 21.

Automatic Signal Corporation, New Haven, Conn. Electric traffic-control systems. 249,865; Nov. 20; Serial No. 268,905; published Sept. 4, 1928. Class 21.

B & J Electrical and Radio Engineering Laboratories. (See Bartkus, John A.)

Baker, Boiden Watson Company, Boston, Mass. Fresh, frozen, smoked, salted, fillet, canned, and preserved sea food. 249,907; Nov. 20. Class 46.

Baker, George W., Shoe Co., Brooklyn, N. Y. Shoe counters. 249,661; Nov. 20; Serial No. 268,572; published Aug. 28, 1928. Class 39.

Barrett Company, The, New York, N. Y. Sulphate of ammonia, nitrate of soda, etc. 249,691; Nov. 20; Serial No. 270,411; published Sept. 11, 1928. Class 6.

Barrett Company, The, New York, N. Y. Sulphate of ammonia, nitrate of soda, etc. 249,805; Nov. 20; Serial No. 269,935; published Sept. 4, 1928. Class 6.

Bartkus, John A., doing business as B & J Electrical and Radio Engineering Laboratories, Chicago, Ill. Radio-panels. 249,839; Nov. 20; Serial No. 267,335; published Sept. 4, 1928. Class 21.

Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 249,741; Nov. 20; Serial No. 269,177; published Sept. 4, 1928. Class 39.

Becken, A. C., Company, Chicago, Ill. Watches and clocks. 249,918; Nov. 20. Class 27.

Becker, Smith & Page, Incorporated, Philadelphia, Pa. Wall paper. 249,742; Nov. 20; Serial No. 269,178; published Sept. 4, 1928. Class 37.

Beiersdorf, P., & Co. Inc., New York, N. Y. Toilet cream. 249,754; Nov. 20; Serial No. 269,343; published Sept. 11, 1928. Class 6.

Bendel, Henri, Inc., New York, N. Y. Perfumes and hygienic products. 249,774; Nov. 20; Serial No. 270,275; published Sept. 11, 1928. Class 6.

Bendiner & Schlesinger, Inc., New York, N. Y. Rubbing alcohol. 249,807; Nov. 20; Serial No. 269,885; published Sept. 11, 1928. Class 6.

Bendix Brake Company, Chicago, Ill., and South Bend, Ind. Brake oil. 249,909; Nov. 20. Class 15.

Bendix Brake Company, Chicago, Ill., and South Bend, Ind. Brake lining. 249,910; Nov. 20. Class 35.

Bercy Laboratories. (See Fleron, M. M., & Son, Inc.)

Bilhuber, E., Inc., New York, N. Y. Medicine. 249,687; Nov. 20; Serial No. 270,458; published Sept. 11, 1928. Class 6.

Blake, Bertram, Paper Co. Inc., New York, N. Y. Book paper. 249,786; Nov. 20; Serial No. 269,710; published Sept. 4, 1928. Class 37.

Blickenstaff, J. E., & Sons, Modesto, Calif. Fresh deciduous fruits, etc. 249,596; Nov. 20; Serial No. 267,925; published Sept. 11, 1928. Class 46.

Block, Joseph, doing business as Block-Bilt Battery Co., New York, N. Y. Batteries. 249,872; Nov. 20; Serial No. 259,992; published Sept. 11, 1928. Class 21.

Bonat, Samuel, & Bro., New York, N. Y. Nail polish. 249,641; Nov. 20; Serial No. 270,007; published Sept. 4, 1928. Class 6.

Bornstein, Emil, Inc., New York, N. Y. Watches. 249,582; Nov. 20; Serial No. 269,014; published Sept. 4, 1928. Class 27.

Bosworth, Harry J., Company, Chicago, Ill. Serial publications. 249,794; Nov. 20; Serial No. 269,630; published Sept. 4, 1928. Class 38.

Brake Equipment and Supply Company, Chicago, Ill. Repair parts for air-brake equipment—namely, piston rings and gaskets. 249,627; Nov. 20; Serial No. 270,233; published Sept. 11, 1928. Class 35.

Bray Clothing Company, to Bray, Robinson Clothing Co., Louisville, Ky., successor. Pants, vests, and overalls. 31,485; renewed Apr. 26, 1928.

Brener, J., Co., Boston, Mass. Bloomers, panties, step-ins, slips, etc. 249,850; Nov. 20; Serial No. 267,744; published Sept. 4, 1928. Class 39.

Broad Brook Co., Broad Brook, Conn. Overcoating fabrics. 249,736; Nov. 20; Serial No. 262,507; published Sept. 11, 1928. Class 42.

Bronston Bros. and Co., Inc., New York, N. Y. Hats. 249,680; Nov. 20; Serial No. 268,578; published Aug. 28, 1928. Class 39.

Brown & Bigelow, St. Paul, Minn. Real-estate periodical. 249,632; Nov. 20; Serial No. 270,111; published Sept. 4, 1928. Class 38.

Brown & Bigelow, St. Paul, Minn. Laundry periodical. 249,633; Nov. 20; Serial No. 270,109; published Sept. 4, 1928. Class 38.

Brown & Bigelow, St. Paul, Minn. Bank periodical. 249,803; Nov. 20; Serial No. 270,112; published Sept. 4, 1928. Class 38.

Brown-Dunkin Dry Goods Company, Tulsa, Okla. Dresses. 249,712; Nov. 20; Serial No. 264,140; published Sept. 4, 1928. Class 39.

Brown-Dunkin Dry Goods Company, Tulsa, Okla. Dresses, hats, and coats. 249,713; Nov. 20; Serial No. 264,139; published Aug. 28, 1928. Class 39.

Brown Instrument Company, The, Philadelphia, Pa. Potentiometers for measuring electrical potentials, etc. 249,730; Nov. 20; Serial No. 263,374; published Sept. 11, 1928. Class 26.

Brown, Sam, doing business as Brown Clothing Company, Minneapolis, Minn. Suits, overcoats, and pants for men and boys. 249,901; Nov. 20. Class 39.

Brown & Williamson Tobacco Corporation, Winston-Salem, N. C. Smoking and chewing tobacco and cigarettes. 249,773; Nov. 20; Serial No. 270,277; published Sept. 11, 1928. Class 17.

Brucks and Peyser, New York, N. Y. Thread and yarn. 249,768; Nov. 20; Serial No. 270,738; published Sept. 11, 1928. Class 43.

Brush, Harvey E., Marshalltown, Iowa. Liquid preparation for the external treatment of diseases and poisoning of the skin. 249,703; Nov. 20; Serial No. 270,317; published Sept. 11, 1928. Class 6.

Burger, Clinton G., doing business as Roseland Poultry Farm, Mansfield, Ohio. Eggs. 249,896; Nov. 20. Class 46.

Burnham-Munger-Root Dry Goods Company, Kansas City, Mo. Dresses and aprons. 249,917; Nov. 20. Class 39.

Carthage Mills Incorporated, Cincinnati, Ohio. Linoleum. 249,817; Nov. 20; Serial No. 266,355; published Sept. 11, 1928. Class 20.

Catalina Hats, Inc., San Francisco, Calif. Ladies' and misses' hats. 249,579; Nov. 20; Serial No. 251,298; published Sept. 11, 1928. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 249,673; Nov. 20; Serial No. 268,677; published Sept. 11, 1928. Class 42.

Century Ribbon Mills, Inc. (Ernest & Herman Levy), New York, N. Y. Ribbons. 249,766; Nov. 20; Serial No. 269,577; published Sept. 11, 1928. Class 42.

Chapin & Gould Paper Company, Springfield, Mass. Bond paper. 249,717; Nov. 20. Class 37.

Chemische Fabrik von Heyden A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Preparation for intramuscular injections. 249,595; Nov. 20; Serial No. 267,933; published Sept. 4, 1928. Class 6.

Cheramy, Inc., New York, N. Y. Toilet soaps and shaving cream. 249,694; Nov. 20; Serial No. 270,368; published Sept. 11, 1928. Class 4.

Chi Omega Fraternity, The, Cincinnati, Ohio. Charters, illuminated mottoes, etchings, etc. 249,656; Nov. 20; Serial No. 258,067; published Sept. 4, 1928. Class 38.

Chicago Flexible Shaft Company, Chicago, Ill. Portable electric appliances. 249,600; Nov. 20; Serial No. 267,834; published Sept. 4, 1928. Class 21.
Chickasaw Thread Company, Shelby, N. C. Thread and yarn. 249,785; Nov. 20; Serial No. 269,716; published Sept. 11, 1928. Class 43.
Chipman & Company, Inc., New York, N. Y. Pianos, player pianos, and phonographs. 249,723; Nov. 20; Serial No. 264,419; published Sep. 4, 1928. Class 36.
Chrysler Sales Corporation, assignor to Chrysler Corporation, Detroit, Mich. Overall jumpers. 249,576; Nov. 20; Serial No. 252,314; published Sept. 4, 1928. Class 39.
Clark, Charles S., Co., New York, N. Y. Bridge score pads, etc. 249,841; Nov. 20; Serial No. 267,351; published Sept. 4, 1928. Class 37.
Coachella Valley Grape Growers Assn., Coachella, Calif. Grapes. 249,570; Nov. 20; Serial No. 265,197; published Sept. 11, 1928. Class 46.
Cobb & Jenkins, New York, N. Y. Raised-pile woolen fabric. 249,853; Nov. 20; Serial No. 266,021; published Sept. 11, 1928. Class 42.
Cohn, J. & M., New York, N. Y. Hats. 249,683; Nov. 20; Serial No. 268,531; published Aug. 28, 1928. Class 39.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Blank paper, translucent paper, coated book paper, box paper, etc. 249,881; Nov. 20; Serial No. 268,425; published Sept. 11, 1928. Class 37.
Comfort Powder Company, The, Hartford, Conn., assignor to The Comfort Powder Company, Inc., Boston, Mass. Soap, dentifrice, and hair preparations. 32,703; renewed Apr. 11, 1929.
Cones, C. B., & Son Manufacturing Company, The, Indianapolis, Ind. Laundered colored shirts, overalls, work coats and shirts. 249,557; Nov. 20; Serial No. 265,830; published Aug. 21, 1928. Class 39.
Coney Island Soda Water Co., Inc., also doing business as Teitler's Beverages, Brooklyn, N. Y. Beverages. 249,864; Nov. 20; Serial No. 268,968; published Sept. 4, 1928. Class 45.
Congoleum-Nairn, Inc., Kearny, N. J. Cement and paste for laying linoleum. 249,626; Nov. 20; Serial No. 270,237; published Sept. 4, 1928. Class 5.
Conrad & Co. Inc., Boston, Mass. Dresses. 249,877; Nov. 20; Serial No. 268,487; published Sept. 4, 1928. Class 39.
Conrad & Co. Inc., Boston, Mass. Hose. 249,878; Nov. 20; Serial No. 268,486; published Sept. 4, 1928. Class 39.
Consolidated Electric Lamp Co., Danvers, Mass. Electric incandescent lamps and elektron radiotubes. 249,914; Nov. 20. Class 21.
Consumers Hat Factory, Inc., Chicago, Ill. Hats. 249,556; Nov. 20; Serial No. 265,035; published Sept. 4, 1928. Class 39.
Corozone Company, The, Cleveland, Ohio. Electric ozone machines. 249,793; Nov. 20; Serial No. 269,638; published Sept. 11, 1928. Class 21.
Credit Stores Magazine Publishing Co., The. (See Settel, Hyman.)
Crofut & Knapp Co., The, South Norwalk, Conn. Hats for men. 249,842; Nov .20; Serial No. 267,408; published Aug. 28, 1928. Class 39.
Curran, Francis J., doing business as The Zoro Company, Chicago, Ill. Deodorants, disinfectants, etc. 249,806; Nov. 20; Serial No. 269,887; published Sept. 11, 1928. Class 6.
Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Newspaper and magazine articles, a magazine section published periodically. 249,904; Nov. 20. Class 38.
Cyclops Steel Company, Inc., Titusville, Pa. Nonrusting, nonstaining alloy steels. 249,571; Nov. 20; Serial No. 265,145; published Aug. 28, 1928. Class 14.
Davis, Helen, doing business as The Helen Davis Cap Co., Topeka, Kans. Caps. 249,705; Nov. 20; Serial No. 264,364; published Aug. 28, 1928. Class 39.
Day's Tailor-D Wear, Inc., Tacoma, Wash. Trousers, suits, knickers, breeches. 249,724; Nov. 20; Serial No. 264,507; published Sept. 4, 1928. Class 39.
Deane, Gerard C., Yonkers, N. Y. Kidney plasters. 249,577; Nov. 20; Serial No. 252,091; published Sept. 11, 1928. Class 6.
De Beltrand, Jean B., New York, N. Y. Magazine. 249,639; Nov. 20; Serial No. 270,071; published Sept. 11, 1928. Class 38.
Debi and McDaniel, doing business as Joe Debi, Big Spring, Tex. Medical preparation for rheumatism. 249,828; Nov. 20; Serial No. 267,125; published Sept. 4, 1928. Class 6.
De Cluhn, Adam, Laboratories. (See Percival, Frank M.)
De La Montanya, Pierre, doing business as Alta Vista Company, San Francisco, Calif. Medicinal tonic. 249,827; Nov. 20; Serial No. 266,979; published Sept. 4, 1928. Class 6.
Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)
Duplexalite Division of the Miller Company, Meriden, Conn. Opalescent glass globes and reflectors. 249,548; Nov. 20; Serial No. 261,741; published Sept. 11, 1928. Class 33.
Durand Shoe Co., Boston, Mass. Leather shoes. 241,792; Nov. 20; Serial No. 269,644; published Sept. 11, 1928. Class 39.
Dworetsky & Anenberg, New York and Brooklyn, N. Y. Underwear, stockings, socks, hats, caps, etc. 249,852; Nov. 20; Serial No. 265,894; published Sept. 4, 1928. Class 39.
Earl Fruit Company, San Francisco, Calif. Fresh fruit. 249,743; Nov. 20; Serial No. 269,227; published Sept. 11, 1928. Class 46.
Eastman Kodak Company, Rochester, N. Y. Photographic developers. 249,625; Nov. 20; Serial No. 270,240; published Sept. 4, 1928. Class 6.
Elias, G., & Bro. Inc., Buffalo, N. Y. Airplanes and structural parts. 249,799; Nov. 20; Serial No. 269,775; published Sept. 11, 1928. Class 19.
Elliott, Glenn, doing business as U. S. Volunteer Air Service, New York, N. Y. Aviation books. 249,660; Nov. 20; Serial No. 257,406; published Sept. 4, 1928. Class 38.
Endicott Johnson Corporation, Endicott, N. Y. Rubber soles and heels and rubber footwear. 249,757; Nov. 20; Serial No. 269,451; published Sept. 11, 1928. Class 39.
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. 249,832; Nov. 20; Serial No. 268,217; published Sept. 4, 1928. Class 39.
Enge, Nena, doing business as Nena Lax Co., New York, N. Y. Laxative. 249,762; Nov. 20; Serial No. 269,518; published Sept. 4, 1928. Class 6.
Eno, J. C., Limited, assignor to J. C. Eno, Limited, London, England. Medicinal preparation. 32,315; renewed Jan. 3, 1929.
Eureka Fire Hose Company, New York, N. Y., assignor to Eureka Fire Hose Manufacturing Company, Jersey City, N. J., and New York, N. Y. Hydraulic hose. 32,058–62; renewed Oct. 18, 1928.
Evansville Paint & Varnish Co. (See Red Spot Paint & Varnish Co.)
Fadrich Corporation. (See Richter, F. Ad., & Co. of New York.)
Fairchild Bros. & Foster, New York, N. Y. Concentrate for treatment of anemia. 249,630; Nov. 20; Serial No. 270,179; published Sept. 4, 1928. Class 6.
Fairchild Bros. & Foster, New York, N. Y. Colloidal preparation of castor oil. 249,642; Nov. 20; Serial No. 270,579; published Sept. 11, 1928. Class 6.
Federal Knitting Mills Company, The, Cleveland, Ohio. Caps. 249,889; Nov. 20; Serial No. 268,274; published Sept. 11, 1928. Class 39.
Felger, F. F., Inc., Newark, N. J. Jewelry. 249,652; Nov. 20; Serial No. 259,303; published Apr. 3, 1928. Class 28.
Field and Stream Publishing Company, New York, N. Y. Monthly magazine. 249,863; Nov. 20; Serial No. 268,979; published Sept. 4, 1928. Class 38.
Finch, Van Slyck & McConville, St. Paul, Minn. Hosiery. 249,747; Nov. 20; Serial No. 269,284; published Sept. 4, 1928. Class 39.
Fisher, Nath'l, & Co., New York, N. Y. Shoes. 249,756; Nov. 20; Serial No. 269,401; published Sept. 11, 1928. Class 39.
Fix-Rite Chemical Co. (See Jones, Julius R.)
Flantzman, Dorothy, doing business as Rosemary Candy Company, San Francisco, Calif. Candy. 249,916; Nov. 20. Class 46.
Fleron, M. M., & Son, Inc., doing business as Bercy Laboratories, Trenton, N. J. Greaseless antiseptic healing creams. 249,594; Nov. 20; Serial No. 267,944; published Sept. 11, 1928. Class 6.
Florida Grapefruit Canning Co., Inc., Bradenton, Fla. Canned grapefruit. 249,900; Nov. 20. Class 46.
Food Specialties Co., The, Columbus, Ohio. Malt extract for medicinal purposes. 249,810; Nov. 20; Serial No. 269,838; published Sept. 11, 1928. Class 6.
Fox Case Corporation, New York, N. Y. Motion pictures. 249,701–2; Nov. 20; Serial Nos. 270,325–6; published Sept. 11, 1928. Class 26.
Frank & Cohen Silk Corp., New York, N. Y. Fabrics. 249,893; Nov. 20; Serial No. 267,042; published Sept. 18, 1928. Class 42.
Franklin, Duncan R., Brooklyn, N. Y. Personal deodorant. 249,631; Nov. 20; Serial No. 270,698; published Sept. 11, 1928. Class 6.
Franklin, O. M., Blackleg Serum Company, The, Denver, Colo. Blackleg vaccine. 249,704; Nov. 20; Serial No. 270,290; published Sept. 11, 1928. Class 6.
Fraser Products Company, Kansas City, Mo. Polishing cloths and polishing mittens chemically treated. 249,629; Nov. 20; Serial No. 270,180; published Sept. 11, 1928. Class 4.
French, R. T., Company, The, Rochester, N. Y. Prepared mustard. 249,903; Nov. 20. Class 46.
Fries, Harold H., doing business as Fries Bros., New York, N. Y. Ethyl protocatechuic aldehyde. 249,714; Nov. 20; Serial No. 264,094; published Sept. 11, 1928. Class 6.
Frocks, Sally, Inc., Chicago, Ill. Ladies' and girls' frocks and dresses. 249,611; Nov. 20; Serial No. 248,932; published Sept. 11, 1928. Class 39.
Fulton Mattress & Bedding Co., The. (See Lichter, Max E.)
General Color Products Co., Chicago, Ill. Ceramic enamels, colors, etc. 249,726; Nov. 20; Serial No. 263,871; published Sept. 4, 1928. Class 16.
Ginger Mint Julep Company, The, Baltimore, Md. Chewing gum. 249,888; Nov. 20; Serial No. 268,279; published Sept. 11, 1928. Class 46.



Given Bros. Shoe Co., El Paso, Tex. Shoes. 249,825; Nov. 20; Serial No. 266,729; published Aug. 28, 1928. Class 39.
Glemby's, S., Sons Co., Inc., New York, N. Y. Permanent-waving oil and hair-curling lotion. 249,690; Nov. 20; Serial No. 270,419; published Sept. 11, 1928. Class 6.
Glenn, J. W., Buffalo, N. Y. Chewing-gum whistles. 249,546; Nov. 20; Serial No. 262,356; published Sept. 11, 1928. Class 46.
Globe Clothiers, The, Tulsa, Okla. Neckties. 249,578; Nov. 20; Serial No. 251,498; published Sept. 4, 1928. Class 39.
Goffin, S. S., doing business as Nassau Sound Packing Co., Jacksonville, Fla. Canned shrimp, vegetables, etc. 249,884; Nov. 20; Serial No. 268,367; published Sept. 11, 1928. Class 46.
Gomersall, G. W., Philadelphia, Pa. Men's clothing and haberdashery. 249,731; Nov. 20; Serial No. 263,814; published Sept. 11, 1928. Class 39.
Grasselli Chemical Company, The, Cleveland, Ohio. Tanning compositions. 249,802; Nov. 20; Serial No. 270,125; published Sept. 4, 1928. Class 6.
Grossman, S., & Co., New York, N. Y. Boys' overcoats. 249,572; Nov. 20; Serial No. 269,115; published Sept. 4, 1928. Class 39.
Hammesfahr, Ernst, Foche, near Solingen, assignor to Ernst G. Hammesfahr, doing business as Gottlieb Hammesfahr, Solingen-Foche, Germany. Iron, steel and manufactures. 32,062; renewed Oct. 18, 1928.
Hellig & Florea, Inc., New York, N. Y. Cotton cloth fabric in the piece from which gloves may be made. 249,861; Nov. 20; Serial No. 268,981; published Sept. 11, 1928. Class 42.
Hellig & Florea, Inc., New York, N. Y. Gloves. 249,862; Nov. 20; Serial No. 268,980; published Sept. 4, 1928. Class 39.
Henlon and Hubbell, Chicago, Ill. Bathtubs, sitz baths, etc. 249,715; Nov. 20; Serial No. 263,945; published Sept. 11, 1928. Class 13.
Hercules Oil Co., Cleveland, Ohio. Motor fuel oils. 249,874; Nov. 20; Serial No. 259,444; published Sept. 4, 1928. Class 15.
Herrmann, A. S., Inc., New York, N. Y. Face cloths, bath mats, bedspreads, etc. 249,620; Nov. 20; Serial No. 255,914; published Sept. 11, 1928. Class 42.
Hickok & Hickok, San Francisco, Calif. Logging and loading tongs. 249,790; Nov. 20; Serial No. 269,657; published Sept. 11, 1928. Class 23.
Hill-Hubbell & Company, San Francisco, Calif. Paint. 249,897; Nov. 20. Class 16.
Hilo Varnish Corporation, New York, N. Y. Black baking japans, paint enamels, and varnishes. 249,860; Nov. 20; Serial No. 268,983; published Aug. 28, 1928. Class 16.
Hirschberg, Henry L., New York, N. Y. Women's and children's undergarments. 249,590; Nov. 20; Serial No. 268,038; published Sept. 4, 1928. Class 39.
Hollings-Smith Co., Orangeburg, N. Y. Cough syrup. 249,645; Nov. 20; Serial No. 270,490; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of constipation. 249,646; Nov. 20; Serial No. 270,489; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of hysteria, melancholia, etc. 249,647; Nov. 20; Serial No. 270,488; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of dropsy, etc. 249,648; Nov. 20; Serial No. 270,487; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of colds. 249,649; Nov. 20; Serial No. 270,486; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for treatment of cholera morbus, etc. 249,650; Nov. 20; Serial No. 270,485; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Nerve tonic and stimulant. 249,651; Nov. 20; Serial No. 270,482; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine for chronic rheumatic, hepatic, etc., affections. 249,685; Nov. 20; Serial No. 270,481; published Sept. 11, 1928. Class 6.
Hollings-Smith Co., Orangeburg, N. Y. Medicine. 249,686; Nov. 20; Serial No. 270,480; published Sept. 11, 1928. Class 6.
Hood Rubber Company, Watertown, Mass. Rubber boots, shoes, and overshoes, and rubber-soled canvas shoes. 249,729; Nov. 20; Serial No. 263,401; published Sept. 11, 1928. Class 39.
Horton & Hubbard Mfg. Co., The, East Somerville, Mass. Suitcases. 249,679; Nov. 20; Serial No. 268,610; published Sept. 4, 1928. Class 3.
Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Combinations, garments consisting of an underwaist and drawers. 249,575; Nov. 20; Serial No. 252,775; published Sept. 4, 1928. Class 39.
Hutt & Wasserman, Inc., New York, N. Y. Men's hats and caps. 249,789; Nov. 20; Serial No. 269,662; published Sept. 11, 1928. Class 39.
Hyman, Harry A., doing business as United Shirt Distributors, Detroit, Mich. Caps, shirts, neckties, etc. 249,843; Nov. 20; Serial No. 267,421; published Aug. 28, 1928. Class 39.
India Tire & Rubber Company, Akron, Ohio. Pneumatic tires. 249,655; Nov. 20; Serial No. 258,335; published Sept. 11, 1928. Class 35.
Inter-State Auto Parts Co., Inc., New York, N. Y. Automobile accessories. 249,737; Nov. 20; Serial No. 243,814; published Sept. 11, 1928. Class 21.
Interstate Shade Cloth Co., Hoboken, N. J. Shade cloth. 249,898; Nov. 20. Class 42.
Invertose Laboratories Co., The, Minneapolis, Minn. Sclerosing solution. 249,831; Nov. 20; Serial No. 268,984; published Sept. 4, 1928. Class 6.
International Nickel Company, The, New York, N. Y. Pieces of nickel. 249,552; Nov. 20; Serial No. 261,194; published Sept. 4, 1928. Class 14.
Irving-Cloud Publishing Co., The, Chicago, Ill. Annual publication. 249,859; Nov. 20; Serial No. 267,657; published Sept. 4, 1928. Class 38.
Jacoby, J., Company, Los Angeles, Calif. Belts, pajamas, shirts, etc. 249,820; Nov. 20; Serial No. 266,592; published Sept. 4, 1928. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, lumber jackets, etc. 249,603; Nov. 20; Serial No. 267,771; published Aug. 28, 1928. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Men's, women's, and children's gloves, pajamas, hats, etc. 249,604; Nov. 20; Serial No. 267,770; published Sept. 11, 1928. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, hosiery, hats, etc. 249,605; Nov. 20; Serial No. 267,769; published Sept. 11, 1928. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, lumber jackets, etc. 249,603; Nov. 20; Serial No. 267,767–8; published Aug. 28, 1928. Class 39.
Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, lumber jackets, etc. 249,851; Nov. 20; Serial No. 267,766; published Aug. 28, 1928. Class 39.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machines. 249,624; Nov. 20; Serial No. 270,248; published Sept. 11, 1928. Class 28.
Jewel Safe Desk Corporation, Jersey City, N. J. Desks. 249,699; Nov. 20; Serial No. 270,337; published Sept. 11, 1928. Class 32.
Joe-Ann Togs, Incorporated, Cleveland, Ohio. Dresses. 249,550; Nov. 20; Serial No. 261,635; published Sept. 4, 1928. Class 39.
Jones, Julius R., doing business as Fix-Rite Chemical Co., Richmond, Va. Hairdressing. 249,758; Nov. 20; Serial No. 269,470; published Sept. 11, 1928. Class 6.
Kali Manufacturing Co., Philadelphia, Pa. Pine oil. 249,638; Nov. 20; Serial No. 270,083; published Sept. 4, 1928. Class 6.
Kaplan, Max, Port Chester, N. Y. Ophthalmic mountings, lenses, etc. 249,745; Nov. 20; Serial No. 269,241; published Sept. 11, 1928. Class 26.
Keystone Grocery & Tea Co., Pittsburgh, Pa. Coffee. 249,610; Nov. 20; Serial No. 228,848; published Apr. 26, 1927. Class 46.
Kildow Cigar Company, Inc., The, Bethesda, Ohio. Cigars. 249,759; Nov 20; Serial No. 269,473; published Sept. 11, 1928. Class 17.
Klein, Milton, doing business as O-Kay Laboratories, Cleveland, Ohio. Medicinal preparation for the relief of frequent desire to urinate. 249,696; Nov. 20; Serial No. 270,338; published Sept. 11, 1928. Class 6.
Knott, William R., Rochester, N. Y. Silver paint preparation. 249,788; Nov. 20; Serial No. 269,665; published Sept. 4, 1928. Class 16.
Knox Company, Kansas City, Mo. Medicine for treatment of nervousness. 249,779; Nov. 20; Serial No. 270,251; published Sept. 4, 1928. Class 6.
Koch, Henry F., doing business as Koch Chemical Co., Evansville, Ind. Insecticides. 249,689; Nov. 20; Serial No. 270,430; published Sept. 11, 1928. Class 6.
Kolliner-Newman Mfg. Co., Stillwater, Minn. Coats, jumpers, jackets, etc. 249,665; Nov. 20; Serial No. 268,871; published Sept. 4, 1928. Class 39.
Kramer, Adolf, & Norbert, Chemnitz, Germany. Hosiery. 249,734; Nov. 20; Serial No. 262,914; published Sept. 4, 1928. Class 39.
Lacks, Felix A., doing business as Amform, New York, N. Y. Ladies' hats and hoods for ladies' hats. 249,876; Nov. 20; Serial No. 268,501; published Aug. 28, 1928. Class 39.
Langdon, John W., Walla Walla, Wash. Mineral waters, etc. 249,653; Nov. 20; Serial No. 258,751; published Sept. 11, 1928. Class 45.
Larned, Carter & Company, Detroit, Mich. Working clothing. 249,818; Nov. 20; Serial No. 266,382; published Sept. 4, 1928. Class 39.
Larson, Enoch, Eldora, Iowa. Tie, shoe, and hosiery display racks. 249,911; Nov. 20. Class 32.
Laytonet Manufacturing Co. (See Layton, Minnie.)
Layton, Minnie, doing business as Laytonet Manufacturing Co., San Francisco, Calif. Ladies' headgear. 249,824; Nov. 20; Serial No. 266,671; published Sept. 11, 1928. Class 39.
Lee, Dina, Lingerie Company, Inc., Minneapolis, Minn. Pajamas, chemises, etc. 249,915; Nov. 20. Class 39.
Lee-O-Lectric Mfg. Co., Inc., Monroe, Mich. Electric cigar lighters. 249,848; Nov. 20; Serial No. 267,595; published Aug. 14, 1928. Class 21.
Lentheric, Incorporated, New York, N. Y. Perfumes, toilet water, etc. 249,644; Nov. 20; Serial No. 270,552; published Sept. 11, 1928. Class 6.

Lichter, Max E., doing business as The Fulton Mattress & Bedding Co., New York, N. Y. Bedding. 249,565; Nov. 20; Serial No. 265,389; published Sept. 11, 1928. Class 32.

Little Sister Coats, Inc., New York, N. Y. Children's coats, hats, dresses, etc. 249,725; Nov. 20; Serial No. 263,876; published Sept. 11, 1928. Class 39.

Looseleaf Education, Inc., Columbus, Ohio. Series of textbooks. 249,845; Nov. 20; Serial No. 267,499; published Sept. 4, 1928. Class 38.

Los Angeles Brewing Co., Los Angeles, Calif. Nonalcoholic beverages sold as soft drinks, syrups, etc. 249,593; Nov. 20; Serial No. 267,973; published Sept. 11, 1928. Class 45.

Lubrite Refining Company, St. Louis, Mo. Gasoline. 249,573; Nov. 20; Serial No. 269,124; published Sept. 4, 1928. Class 15.

Lyric Piano Company, The, Cincinnati, Ohio. Pianos, piano players, player pianos, etc. 249,613; Nov. 20; Serial No. 246,692; published June 5, 1928. Class 36.

MacIntyre & Simpson, Chicago, Ill. Magazines. 249,787; Nov. 20; Serial No. 269,673; published Sept. 4, 1928. Class 38.

Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 249,659; Nov. 20; Serial No. 257,426; published Sept. 11, 1928. Class 46.

MacMillan Petroleum Products Company, Los Angeles, Calif. Kerosene, gasoline, etc. 249,592; Nov. 20; Serial No. 267,981; published Sept. 11, 1928. Class 15.

Macy, R. H., & Co., Inc., New York, N. Y. Shoes. 249,558; Nov. 20; Serial No. 265,732; published Aug. 28, 1928. Class 39.

Macy, R. H., & Co., Inc., New York, N. Y. Shoes. 249,838; Nov. 20; Serial No. 267,265; published Sept. 4, 1928. Class 39.

Maison Jenny Société Anonyme, Paris, France. Perfumed cream for toilet use. 249,693; Nov. 20; Serial No. 270,382; published Sept. 11, 1928. Class 6.

Makransky, S., & Sons, Philadelphia, Pa. Suits, overcoats, and topcoats. 249,880; Nov. 20; Serial No. 268,455; published Sept. 4, 1928. Class 39.

Manhattan Drug Company, Brooklyn, N. Y. Salve or ointment, etc. 249,561; Nov. 20; Serial No. 265,440; published Sept. 11, 1928. Class 6.

Manhattan Drug Company, Brooklyn, N. Y. Foot powder, etc. 249,562; Nov. 20; Serial No. 265,439; published Sept. 11, 1928. Class 6.

Manhattan Drug Company, Brooklyn, N. Y. Tooth powder, paste, and wash. 249,563; Nov. 20; Serial No. 265,438; published Sept. 11, 1928. Class 6.

Manteca Canning Company, Manteca, Calif. Fresh grapes. 249,854; Nov. 20; Serial No. 266,138; published Sept. 11, 1928. Class 46.

Marks, Charles H., New York, N. Y. Foot powder for softening corns, bunions, etc. 249,879; Nov. 20; Serial No. 268,456; published Sept. 11, 1928. Class 6.

Marswell, Incorporated, Wantagh, N. Y. Preparation for use in treatment of headache, backache, and toothache. 249,830; Nov. 20; Serial No. 268,988; published Sept. 11, 1928. Class 6.

Mason, Frank B., Hollis, N. Y. Kidney medicine for horses. 249,829; Nov. 20; Serial No. 268,991; published Sept. 11, 1928. Class 6.

McClain Brothers, Canton, Ohio. Burial vaults. 249,883; Nov. 20; Serial No. 268,378; published Sept. 11, 1928. Class 2.

McCreery Manufacturing Co., Portland, Oreg. Clothing. 249,555; Nov. 20; Serial No. 265,050; published Sept. 4, 1928. Class 39.

McMahon, Wm. H., Company, Philadelphia, Pa. Mattresses, cushions, etc. 249,621; Nov. 20; Serial No. 255,812; published Sept. 11, 1928. Class 32.

Men's Wear Service Corporation, Chicago, Ill. Silk, wool, or cotton mufflers, hosiery, etc. 249,622; Nov. 20; Serial No. 255,420; published Aug. 28, 1928. Class 39.

Mesta Machine Company, West Homestead and Pittsburgh, Pa. Rolling-mill rolls. 249,708–9; Nov. 20; Serial Nos. 264,248–9; published Sept. 4, 1928. Class 23.

Metke, John G., doing business as Queen City Specialty Co., Buffalo, N. Y. Beverages sold as soft drinks, juices for making same. 249,801; Nov. 20; Serial No. 270,135; published Sept. 11, 1928. Class 45.

Metz, H. A., Laboratories, Inc., New York, N. Y. Anesthetic. 249,804; Nov. 20; Serial No. 269,970; published Sept. 4, 1928. Class 6.

Michelsohn, I., & Son, New York, N. Y. Hosiery. 249,846; Nov. 20; Serial No. 267,500; published Aug. 28, 1928. Class 39.

Mico-Products, Inc., Ampere-Newark, N. J. Electric switches, signals, etc. 249,551; Nov. 20; Serial No. 261,374; published Sept. 4, 1928. Class 21.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed papers. 249,922; Nov. 20. Class 37.

Mild Engineering Company, Mount Vernon, Ohio. Electric refrigerators. 249,728; Nov. 20; Serial No. 263,412; published May 29, 1928. Class 31.

Milford Shoe Company, Milford, Mass. Shoes. 249,722; Nov. 20; Serial No. 264,596; published Sept. 4, 1928. Class 39.

Miller, I., & Sons, Inc., Long Island City, N. Y. Gloves, hosiery, hats, shoes, etc. 249,618; Nov. 20; Serial No. 256,736; published Sept. 11, 1928. Class 39.

Miller, I., & Sons, Inc., Long Island City, N. Y. Canes, parasols, and umbrellas. 249,658; Nov. 20; Serial No. 257,689; published Aug. 21, 1928. Class 41.

Miller, L. A., Label Co., San Francisco, Calif. Labels, tags, etc. 249,855; Nov. 20; Serial No. 266,143; published Sept. 4, 1928. Class 38.

Möbius, T. Paul, Erlangen, near Nuremberg, Germany. Pencil sharpeners. 249,707; Nov. 20; Serial No. 264,251; published Sept. 11, 1928. Class 37.

Montgomery Ward & Co., Incorporated, Chicago, Ill. Leather boots and shoes. 249,672; Nov. 20; Serial No. 268,743; published Aug. 28, 1928. Class 39.

Moore, Walton N., Dry Goods Co. Inc., San Francisco, Calif. Dresses and aprons. 249,856; Nov. 20; Serial No. 266,145; published Sept. 4, 1928. Class 39.

Mount Airy Overall Co., Mount Airy, N. C. Work shirts, pants, overalls. 249,599; Nov. 20; Serial No. 267,851; published Sept. 4, 1928. Class 39.

Mulford, H. K., Company, Philadelphia, Pa. Antacid and corrective for digestive disturbances. 249,763; Nov. 20; Serial No. 269,542; published Sept. 4, 1928. Class 6.

Mülhens, Paul P., doing business as Die Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 249,789; Nov. 20; Serial No. 242,100; published Sept. 4, 1928. Class 4.

Nähmaschinen-Teile Aktien-Gesellschaft, Dresden, Germany. Sewing machines and parts thereof. 249,746; Nov. 20; Serial No. 269,248; published Sept. 11, 1928. Class 23.

Nanfro, Albert, New York, N. Y. Orange drink. 249,906; Nov. 20. Class 45.

Nannt, Inc., Long Island City, N. Y. Soap. 249,678; Nov. 20; Serial No. 263,624; published Sept. 4, 1928. Class 4.

Nannt, Inc., Long Island City, N. Y. Compound for beverages. 249,847; Nov. 20; Serial No. 267,502; published Sept. 11, 1928. Class 45.

Nassau Sound Packing Co. (See Goffin, S. S.)

National Bank Supply Co., The, Milwaukee, Wis. Looseleaf-binders, etc. 249,767; Nov. 20; Serial No. 269,596; published Sept. 4, 1928. Class 37.

National Department Stores, Inc., New York, N. Y. Ladies' hosiery. 249,574; Nov. 20; Serial No. 269,137; published Sept. 4, 1928. Class 39.

National Trade Journals, Inc., New York, N. Y. Section of a monthly publication. 249,875; Nov. 20; Serial No. 268,507; published Sept. 4, 1928. Class 38.

Naturo Mfg. Co., Los Angeles, Calif. Products for preservation of human dead. 249,760; Nov. 20; Serial No. 269,546; published Sept. 11, 1928. Class 6.

Neilly, William C., New York, N. Y. Preparation for the skin. 249,637; Nov. 20; Serial No. 270,090; published Sept. 4, 1928. Class 6.

Nena Lax Co. (See Enge, Nena.)

New Sweden Potato Growers, Idaho Falls, Idaho. Potatoes. 249,549; Nov. 20; Serial No. 261,642; published Sept. 11, 1928. Class 46.

New York Merchandise Co., Inc., New York, N. Y. Hairnets. 249,643; Nov. 20; Serial No. 270,554; published Sept. 11, 1928. Class 42.

Nicholson File Company, Providence, R. I. Files and rasps. 249,815; Nov. 20; Serial No. 266,215; published Sept. 11, 1928. Class 23.

Nock Chemical Laboratory, Pittsburgh, Pa. Metal-cleaning compound. 249,684; Nov. 20; Serial No. 268,508; published Sept. 4, 1928. Class 4.

Norub Company, Ossining, N. Y. Shaving powder. 249,755; Nov. 20; Serial No. 269,363; published Sept. 4, 1928. Class 4.

Oceanic Sales Company, Seattle, Wash. Canned salmon. 249,771; Nov. 20; Serial No. 270,646; published Sept. 11, 1928. Class 46.

Oconomowoc Canning Co., Oconomowoc, Wis. Canned vegetables. 249,772; Nov. 20; Serial No. 270,603; published Sept. 11, 1928. Class 46.

O'Donnell Company, The, Boston, Mass. Fresh fish. 249,778; Nov. 20; Serial No. 270,258; published Sept. 11, 1928. Class 46.

Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Hats. 249,566–7; Nov. 20; Serial Nos. 265,341–2; published Sept. 11, 1928. Class 39.

Ogus, Rabinovich & Ogus, Inc., New York, N. Y. Hats. 249,718–20; Nov. 20; Serial Nos. 264,836–8; published Sept. 11, 1928. Class 39.

O-Kay Laboratories. (See Klein, Milton.)

Old Trusty Company, The. (See Rollins, Calvin.)

Oshkosh Overall Co., Oshkosh, Wis. Overalls, work coats, jackets, and pants. 249,869; Nov. 20; Serial No. 268,881; published Sept. 4, 1928. Class 39.

Oxford University Press, American Branch, New York, N. Y. Musical periodical. 249,636; Nov. 20; Serial No. 270,092; published Sept. 4, 1928. Class 38.

Owens Staple-Tied Brush Company, The, Toledo, Ohio. Toothbrushes. 249,614; Nov. 20; Serial No. 246,497; published Sept. 4, 1928. Class 29.

Pacquin, Inc., New York, N. Y. Cleansing and shaving soap. 249,628; Nov. 20; Serial No. 270,197; published Sept. 11, 1928. Class 4.

Pan-American Drug Company, Inc., Jacksonville, Fla. General tonic and mild laxative. 249,777; Nov. 20; Serial No. 270,259; published Sept. 11, 1928. Class 6.

Paris, Isabey, Inc., Wilmington, Del., and New York, N. Y. Cold cream, vanishing cream, rouge, etc. 249,835; Nov. 20; Serial No. 267,127; published Sept. 4, 1928. Class 6.

Park & Tilford, New York, N. Y. Cigars. 249,669; Nov. 20; Serial No. 268,805; published Sept. 11, 1928. Class 17.



Parke, Davis & Company, Detroit, Mich. Preparation for stimulating contractions of uterine and other muscular fibers. 249,657; Nov. 20; Serial No. 257,741; published Sept. 11, 1928. Class 6.

Parke, Davis & Company, Detroit, Mich. Preparation for raising blood pressure. 249,661; Nov. 20; Serial No. 257,908; published Sept. 11, 1928. Class 6.

Parke, Davis & Company, Detroit, Mich. Chemical substance possessing medicinal properties as a hypnotic. 249,689; Nov. 20; Serial No. 270,348; published Sept. 11, 1928. Class 6.

Parker, Edgar W., doing business as Dr. Parker Medicine Co., Tampa, Fla. Vitalizing tonic in tablet form. 249,644–5; Nov. 20; Serial Nos. 265,001–2; published Sept. 11, 1928. Class 6.

Passivation Products Company, The, Cleveland, Ohio. Chemical compounds and solutions for cleaning and treating metal surfaces. 249,697; Nov. 20; Serial No. 270,349; published Sept. 11, 1928. Class 6.

Patapsco Oil & Grease Co., The, Baltimore, Md. Lubricating oils and greases. 249,710; Nov. 20; Serial No. 264,188; published Sept. 4, 1928. Class 15.

Pendleton Woolen Mills, Portland, Oreg. Clothing. 249,602; Nov. 20; Serial No. 267,793; published Sept. 4, 1928. Class 39.

Per-Con Manufacturing Company, Richmond, Ind. Radio accessories. 249,826; Nov. 20; Serial No. 266,879; published Sept. 4, 1928. Class 21.

Percival, Frank M., doing business as Adam de Cluhn Laboratories, Corona, N. Y. Cold cream, hair tonic, bleaching astringent, etc. 249,692; Nov. 20; Serial No. 270,388; published Sept. 11, 1928. Class 6.

Phoenix Overgaiter Co. Inc., New York, N. Y. Leggings and overgaiters. 249,612; Nov. 20; Serial No. 247,568; published Aug. 28, 1928. Class 39.

Pinkham, Franklin, New York, N. Y. Weekly magazine. 249,892; Nov. 20; Serial No. 268,245; published Sept. 4, 1928. Class 38.

Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Soaps. 249,783; Nov. 20; Serial No. 269,745; published Sept. 11, 1928. Class 4.

Piver, L. T., Inc., doing business as L. T. Piver and Parfumerie L. T. Piver, Wilmington, Del., and New York, N. Y. Sachet powders, face powders, etc. 249,784; Nov. 20; Serial No. 269,744; published Sept. 11, 1928. Class 6.

Plant, Thomas G., Co., assignor, by mesne assignments, to Thomas G. Plant Corporation, Boston, Mass. Boots and shoes. 32,341; renewed Jan. 10, 1929.

Plaza Music Company, New York, N. Y. Phonographs, records, etc. 249,716; Nov. 20; Serial No. 263,889; published Sept. 4, 1928. Class 36.

Polk, James K., Incorporated, Atlanta, Ga. Phonographs, phonograph records, phonograph needles, etc. 249,547; Nov. 20; Serial No. 262,327; published Sept. 11, 1928. Class 36.

Prutinsky & Woolf, New York, N. Y. Jewelry. 249,797; Nov. 20; Serial No. 269,603; published Sept. 11, 1928. Class 28.

Queen City Specialty Co. (See Metke, John G.)

Radiance, Limited, Doncaster, England. Chocolate and Sweetmeats. 249,706; Nov. 20; Serial No. 264,260; published Sept. 11, 1928. Class 46.

Radio Liniment & Salve Co., St. Louis, Mo. Liniment and salve for external use, and salts for internal use. 249,913; Nov. 20. Class 6.

Rankin, Wm. H., Company, Chicago, Ill. Cream soap. 249,920; Nov. 20. Class 4.

Rapid City Packing Company, Rapid City, S. Dak. Smoked meats, cooked meats, etc. 249,873; Nov. 20; Serial No. 259,924; published Sept. 11, 1928. Class 46.

Rauh, S., & Company, New York, N. Y. Leggings. 249,744; Nov. 20; Serial No. 269,206; published Sept. 11, 1928. Class 39.

Realart Silk Hosiery Mills. (See Sachsenmaier, Frances.)

Red Spot Paint & Varnish Co., also doing business as Evansville Paint & Varnish Co., Evansville, Ind. Paints, fillers, shellacs, etc. 249,840; Nov. 20; Serial No. 267,389; published Sept. 4, 1928. Class 16.

Reichardt Cocoa & Chocolate Co., Inc., New York, N. Y. Candy. 249,564; Nov. 20; Serial No. 265,405; published Sept. 11, 1928. Class 46.

Reichel Bros., New York, N. Y. Hats and caps. 249,609; Nov. 20; Serial No. 226,824; published Sept. 4, 1928. Class 39.

Rentz, Fred, Paper Company, Chicago, Ill. Wrapping paper. 249,791; Nov. 20; Serial No. 269,651; published Sept. 4, 1928. Class 37.

Rialto Orange Co., Rialto, Calif. Oranges, lemons, and grapefruit. 249,769; Nov. 20; Serial No. 270,719; published Sept. 11, 1928. Class 46.

Rice's, Bernard, Sons, Inc., New York, N. Y. Silver hollow ware. 249,868; Nov. 20; Serial No. 268,883; published Sept. 4, 1928. Class 28.

Rich, Frederick D., New York, N. Y. Fashion periodical. 249,867; Nov. 20; Serial No. 268,884; published Sept. 4, 1928. Class 38.

Richter, F. Ad., & Co. of New York, now, by change of name, Fadrich Corporation, assignor to F. Ad. Richter & Co. Inc., Brooklyn, N. Y. Soap. 249,887; Nov. 20; Serial No. 268,310; published Sept. 4, 1928. Class 4.

Riley Penn Oil Co., Burlington, Iowa. Lubricating oils, greases, gasoline, and kerosene. 249,899; Nov. 20. Class 15.

Robertshaw Thermostat Company, Youngwood, Pa. Thermostats. 249,921; Nov. 20. Class 26.

Robinson & Golluber, New York, N. Y. Cotton piece goods. 249,727; Nov. 20; Serial No. 263,726; published Sept. 11, 1928. Class 42.

Robinson & Golluber, New York, N. Y. Piece goods of rayon, silk, and satin, lingerie, and slip material. 249,796; Nov. 20; Serial No. 269,606; published Sept. 11, 1928. Class 42.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Aluminum cleanser, steel wool, etc. 249,821; Nov. 20; Serial No. 266,620; published Sept. 4, 1928. Class 4.

Rollins, Calvin, doing business as The Old Trusty Company, Clay Center, Nebr. Ready-mixed paints and varnishes. 249,751; Nov. 20; Serial No. 269,002; published Aug. 28, 1928. Class 16.

Roseland Poultry Farm. (See Burger, Clinton G.)

Rosemary Candy Company. (See Flantzman, Dorothy.)

Rosenbaum Company, The, Pittsburgh, Pa. Coats and dresses. 249,581; Nov. 20; Serial No. 269,038; published Sept. 4, 1928. Class 39.

Rosenheim Co., Inc., Providence, R. I. Bracelets. 249,748; Nov. 20; Serial No. 269,318; published Sept. 4, 1928. Class 28.

Rossow, August W., doing business as Rossow Research Laboratories, Portland, Oreg. Depilatory. 249,886; Nov. 20; Serial No. 268,313; published Sept. 4, 1928. Class 6.

Roth, Otto, & Co. Inc., New York, N. Y. Dried sausage. 249,662–3; Nov. 20; Serial Nos. 257,188–9; published Sept. 11, 1928. Class 46.

Roth, Otto, & Company Inc., New York, N. Y. Dried sausage. 249,664; Nov. 20; Serial No. 257,186; published Sept. 11, 1928. Class 46.

Royal Beauty Silk Hosiery Co., New York, N. Y. Underwear and hosiery for ladies, misses, and children. 249,671; Nov. 20; Serial No. 268,751; published Aug. 21, 1928. Class 39.

Rumidor Corporation, The, Union City, N. J. Moistening and flavoring products for cigars, cigarettes, etc. 249,677; Nov. 20; Serial No. 268,634; published Sept. 4, 1928. Class 6.

Russell, Frederick C., West Hartford, Conn. Heading for newspaper articles. 249,798; Nov. 20; Serial No. 269,799; published Sept. 4, 1928. Class 38.

S. M. & H. Company, New York, N. Y. Rings, pins, etc. 249,569; Nov. 20; Serial No. 266,296; published Sept. 4, 1928. Class 28.

S & M Lamp Co. Incorporated, Los Angeles, Calif. Electric lamps. 249,902; Nov. 20. Class 21.

S & W Thrift Corporation, San Francisco, Calif. Trading certificates. 249,616; Nov. 20; Serial No. 245,228; published Sept. 4, 1928. Class 38.

Sachsenmaier, Frances, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Hosiery. 249,750; Nov. 20; Serial No. 269,319; published Sept. 4, 1928. Class 39.

Safety Glass and Xetal Products, Limited, Stapleford, England. Adhesives. 249,608; Nov. 20; Serial No. 239,826; published Sept. 4, 1928. Class 5.

St. Albans Grain Company, St. Albans, Vt. Feed for dairy stock. 249,733; Nov. 20; Serial No. 263,174; published July 17, 1928. Class 46.

St. Nick's Toy Company. (See Shakeshaft, Marion D.)

Salol Chemical Co., Chicago, Ill. Disinfectant and cleanser. 249,560; Nov. 20; Serial No. 265,575; published Sept. 4, 1928. Class 6.

Schnelling, Samuel, Chicago, Ill. Rings, bracelets, etc. 249,819; Nov. 20; Serial No. 266,485; published Sept. 4, 1928. Class 28.

Sears, Roebuck and Co., Chicago, Ill. Electric ironing machines. 249,749; Nov. 20; Serial No. 269,323; published Sept. 11, 1928. Class 24.

Sears, Roebuck and Co., Chicago, Ill. Dinner ware. 249,822; Nov. 20; Serial No. 266,627; published Sept. 11, 1928. Class 30.

Seidman, Charles, doing business as Charles Seidman & Co., Philadelphia, Pa. Sweaters. 249,836; Nov. 20; Serial No. 267,147; published Sept. 4, 1928. Class 39.

Selig, Alvin C., San Francisco, Calif. Boys' and men's outer clothing. 249,601; Nov. 20; Serial No. 267,806; published Sept. 4, 1928. Class 39.

Selby Shoe Co., The, Portsmouth, Ohio. Boots and shoes. 249,568; Nov. 20; Serial No. 265,290; published Aug. 28, 1928. Class 39.

Settel, Hyman, doing business as The Credit Stores Magazine Publishing Co., New York, N. Y. Periodical. 249,587; Nov. 20; Serial No. 269,094; published Sept. 4, 1928. Class 38.

Shakeshaft, Marion D., doing business as St. Nick's Toy Company, Topeka, Kans. Seesaw amusement device. 249,553; Nov. 20; Serial No. 261,077; published Sept. 4, 1928. Class 22.

Shakespeare Company, Kalamazoo, Mich. Fishing lines. 249,849; Nov. 20; Serial No. 267,728; published Sept. 4, 1928. Class 22.

Sherman Bros., New York, N. Y. Raincoats. 249,857; Nov. 20; Serial No. 266,151; published Sept. 4, 1928. Class 39.

Shoaf-Sink Hosiery Mill Company, Lexington, N. C. Hosiery. 249,753; Nov. 20; Serial No. 269,326; published Sept. 4, 1928. Class 39.

Simmons-Boardman Publishing Co., New York, N. Y. Periodical. 249,761; Nov. 20; Serial No. 269,487; published Sept. 4, 1928. Class 38.

Simon Oil Company, Inc., Niagara Falls, N. Y. Gasoline, kerosene, etc. 249,871; Nov. 20; Serial No. 260,359; published Sept. 4, 1928. Class 15.
Simplex Shoe Manufacturing Company, Milwaukee, Wis. Boots and shoes. 249,711; Nov. 20; Serial No. 264,207; published Aug. 28, 1928. Class 39.
Skinner-Hill Co., Inc., New York, N. Y. Electrical lighting fixtures. 249,617; Nov. 20; Serial No. 257,122; published Sept. 11, 1928. Class 21.
Smith, Helen H., doing business as Sye Pattern Co., St. Louis, Mo. Patterns for women's wearing apparel. 249,668; Nov. 20; Serial No. 268,821; published Sept. 11, 1928. Class 26.
Spalde Shirt Company, The, Butler, Pa. Shirts. 249,882; Nov. 20; Serial No. 268,400; published Sept. 4, 1928. Class 39.
Spence-Bryson Inc., New York, N. Y. Handkerchiefs. 249,752; Nov. 20; Serial No. 269,158; published Sept. 11, 1928. Class 42.
Squibb, E. R., & Sons, New York, N. Y. Liquid preparation to be used as a laxative. 249,688; Nov. 20; Serial No. 270,448; published Sept. 11, 1928. Class 6.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 249,823; Nov. 20; Serial No. 266,628; published Sept. 4, 1928. Class 6.
Standard Land Company, The, assignor to The W. N. F. Solution Company, Omaha, Nebr. Nonfreezing solution for radiators. 249,584; Nov. 20; Serial No. 269,003; published Sept. 11, 1928. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Local anesthetic in ampoule or tablet form or in solution. 249,700; Nov. 20; Serial No. 270,327; published Sept. 11, 1928. Class 6.
Steinberg, Harry, doing business as Secret Service Publishing Company, New York, N. Y. Periodicals. 249,580; Nov. 20; Serial No. 250,762; published Aug. 23, 1928. Class 38.
Sterling Company, The, Chicago, Ill. Ladies' aprons and house dresses. 249,740; Nov. 20; Serial No. 269,160; published Sept. 4, 1928. Class 39.
Stone, Lester H., Chicago, Ill. Shoes. 249,844; Nov. 20; Serial No. 267,468; published Sept. 4, 1928. Class 39.
Sutliff, Henry, doing business as H. Sutliff Pipe Shop, San Francisco, Calif. Smoking tobacco. 249,891; Nov. 20; Serial No. 268,251; published Sept. 11, 1928. Class 17.
Sweet, Wm. J., Foundry Co., Irvington (Newark), N. J. Ferrous and nonferrous metal alloys, etc. 249,682; Nov. 20; Serial No. 268,569; published Sept. 4, 1928. Class 14.
Swift and Company, Chicago, Ill. Frying fat. 249,695; Nov. 20; Serial No. 270,358; published Sept. 11, 1928. Class 46.
Swiss Hairspring Service, Inc., New York, N. Y. Watch materials. 249,770; Nov. 20; Serial No. 269,615; published Sept. 11, 1928. Class 27.
Sye Pattern Co. (See Smith, Helen H.)
Syracuse Chilled Plow Co., assignor to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y. Plows and their parts. 32,098; renewed Oct. 25, 1928.
Teitler's Beverages. (See Coney Island Soda Water Co., Inc.)
Temple, Inc., Chicago, Ill. Loud speakers and parts thereof. 249,670; Nov. 20; Serial No. 268,755; published Sept. 4, 1928. Class 21.
Theta Tau Fraternity, Urbana, Ill. Fraternity badges, lapel buttons, etc. 249,585; Nov. 20; Serial No. 269,042; published Sept. 4, 1928. Class 28.
Thomson, William H., doing business as Thomson Mfg. Co., Peoria, Ill. Steel ribbon for piston rings. 249,667; No. 20; Serial No. 268,825; published Sept. 11, 1928. Class 35.
Tiffany & Company, New York, N. Y. Canes, parasols, and umbrellas. 249,834; Nov. 20; Serial No. 267,151; published Sept. 4, 1928. Class 41.
Trinidad Lake Petroleum Company, Limited, The, assignor to The Trinidad Lake Asphalt Operating Company, Limited, Brighton, Trinidad, British West Indies. Road oil. 249,623; Nov. 20; Serial No. 254,874; published Sept. 4, 1928. Class 15.
Trippe, Barker & Co., New York, N. Y. Dresses. 249,890; Nov. 20; Serial No. 268,256; published Sept. 4, 1928. Class 39.
Twin Coupler Company, Inc., Poughkeepsie, N. Y. Radio receiving sets and parts. 249,619; Nov. 20; Serial No. 256,591; published Sept. 4, 1928. Class 21.
U. S. Volunteer Air Service. (See Elliott, Glenn.)
Ultraviolet Glass Corporation, New York, N. Y. Ultraviolet-ray transmitting glass. 249,635; Nov. 20; Serial No. 270,100; published Sept. 11, 1928. Class 33.
United Shirt Distributors. (See Hyman, Harry A.)
United States Rubber Company, New York, N. Y. Inner tubes for tires. 249,776; Nov. 20; Serial No. 270,267; published Sept. 11, 1928. Class 35.
United Wire Goods Mfg. Co., New York, N. Y. Bathroom fixtures. 249,598; Nov. 20; Serial No. 267,876; published Sept. 11, 1928. Class 13.
Universal Electric Lamp Co., Newark, N. J. Radio electron tubes. 249,675; Nov. 20; Serial No. 268,655; published Sept. 4, 1928. Class 21.
Universal Electric Lamp Co., Newark, N. J. Radio electron tubes. 249,676; Nov. 20; Serial No. 268,654; published Sept. 4, 1928. Class 21.
Vacuum Oil Company, New York, N. Y. Oils, greases, etc. 249,589; Nov. 20; Serial No. 268,122; published Sept. 11, 1928. Class 15.
Vanity Fair Silk Mills, Reading, Pa. Underwear for women and men. 249,588; Nov. 20; Serial No. 268,124; published Aug. 28, 1928. Class 39.
Van Riper, Charles K., Monterey, Calif. Periodicals. 249,640; Nov. 20; Serial No. 270,063; published Sept. 4, 1928. Class 38.
Ventril-O-Fone Company, Wilmington, Del. Microphonic attachment for radio receiving sets. 249,837; Nov. 20; Serial No. 267,166; published Sept. 11, 1928. Class 21.
Vermont Maple Syrup Co. Inc., Burlington, Vt. Maple-sap syrup. 249,895; Nov. 20. Class 46.
Voge-L-Iner Sales Co. (See Vogel, Willis A.)
Vogel, Willis A., doing business as Voge-L-Iner Sales Co., Toledo, Ohio. Liquid preparation for treating floors and walls of tile, etc. 249,583; Nov. 20; Serial No. 269,008; published Sept. 11, 1928. Class 6.
W. N. F. Solution Company. (See Standard Land Company, assignor.)
W. & P. Jewelry Co. Inc., New York, N. Y. Articles of jewelry for personal wear, not including watches. 249,795; Nov. 20; Serial No. 269,618; published Sept. 11, 1928. Class 28.
Wadsworth Watch Case Company, The, Dayton, Ky. Bracelets and watch bands. 249,554; Nov. 20; Serial No. 265,129; published Sept. 11, 1928. Class 28.
Wadsworth Watch Case Company, Dayton, Ky. Bracelets and watch bands. 249,816; Nov. 20; Serial No. 266,285; published Sept. 11, 1928. Class 28.
Ward Baking Company, New York, N. Y. Cake. 249,813–14; Nov. 20; Serial Nos. 267,730–1; published Sept. 11, 1928. Class 46.
Wasco Manufacturing Co., Richmond, Ind. Storage-battery acid. 249,919; Nov. 20. Class 6.
Watson, John Warren, Company, Philadelphia, Pa. Friction braking mechanisms and parts, recoil checks, etc. 249,591; Nov. 20; Serial No. 268,010; published Sept. 11, 1928. Class 19.
Wayne Company, Fort Wayne, Ind., assignor to The Wayne Home Equipment Company, Baltimore, Md. Refrigeration apparatus. 249,597; Nov. 20; Serial No. 267,879; published Sept. 4, 1928. Class 31.
Wenatchee Okanogan Co-Operative Federation, Wenatchee, Wash. Fresh apples. 249,912; Nov. 20. Class 46.
Wester, Emerick, Easton, Pa. Spring water. 249,738; Nov. 20; Serial No. 242,402; published Sept. 11, 1928. Class 45.
Western States Mfg. Co., Sioux City, Iowa. Sheet-rubber tire-patching material, etc. 249,764; Nov. 20; Serial No. 269,558; published Sept. 11, 1928. Class 35.
Western States Mfg. Co., Sioux City, Iowa. Valve pads for pneumatic tires, fan belts, tube and casing patches, etc. 249,765; Nov. 20; Serial No. 269,559; published Sept. 11, 1928. Class 35.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Contact rectifiers. 249,615; Nov. 20; Serial No. 245,942; published Sept. 4, 1928. Class 21.
White-Washburne Company, Inc., Hinsdale, N. H. Toilet paper, paper towels and napkins. 249,780–1; Nov. 20; Serial Nos. 269,752–3; published Sept. 4, 1928. Class 37.
Whiting, C. R., Co. Inc., Newark, N. J. Plain, coated, or decorated paper. 249,735; Nov. 20; Serial No. 262,585; published May 22, 1928. Class 37.
Whyto Manufacturing Company, Cresco, Iowa. Washing and cleansing powders with and without incidental bleaching properties. 249,833; Nov. 20; Serial No. 268,201; published Sept. 11, 1928. Class 4.
Willamette Grocery Co., Salem, Oreg. Canned fruits, vegetables, and fish, breakfast cereals. 249,908; Nov. 20. Class 46.
Wilson-Imperial Company, Newark, N. J. Detergent compound. 249,732; Nov. 20; Serial No. 263,297; published Sept. 4, 1928. Class 4.
Winthrop Chemical Company. (See Chemische Fabrik von Heyden A. G., assignor.)
Wiremold Company, The, Hartford, Conn. Insulated electrical conductors and nonmetallic conduits. 249,905; Nov. 20. Class 21.
Wood Fruit Company, Inc., Atwater, Calif. Fresh deciduous fruits. 249,808–9; Nov. 20; Serial Nos. 269,878–9; published Sept. 11, 1928. Class 46.
Wood, J. R., & Sons, New York, N. Y. Finger rings. 249,654; Nov. 20; Serial No. 258,707; published Sept. 4, 1928. Class 26.
Zanesville Paper Co., The, Zanesville, Ohio. Toilet paper. 249,812; Nov. 20; Serial No. 269,814; published Sept. 4, 1928. Class 37.
Zoro Company, The. (See Curran, Francis J.)

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Bellmore Candy Company. (See Lorthioir, Emile.)
Brown, J. S., Mercantile Company, The, Denver, Colo. Chef. For Loganberries. 34,949; Nov. 20.
California Frute-Wip Company, Los Angeles, Calif. Frute-Wip. For Desserts or Dessert Preparations and Foods. 34,950; Nov. 20.
Chippewa Canning Co., Chippewa Falls, Wis. Green Babies. For Canned Peas. 34,951; Nov. 20.
Colombo Manufacturing Co., Brooklyn, N. Y. Fevola Presto Crystal Cleaner. For Cleaner for Anything Made from Glass or Anything with an Enameled Surface. 34,952; Nov. 20.
Drackett Chemical Company, The, Cincinnati, Ohio. Dawn. For Cleanser for Enamel Porcelain and General Household Cleaning. 34,953; Nov. 20.
Earl Fruit Company, Wenatchee, Wash. Blue Flag. For Fresh Prunes. 34,954; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Jean Water Wave and Sports Net. For Water-Wave and Sports Nets. 34,955; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Kressent Water Wave and Sports Net. For Water-Wave and Sports Nets. 34,956; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Regina Water Wave and Sports Net. For Water-Wave and Sports Nets. 34,957; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Lorraine Water Wave and Sports Net. For Water-Wave and Sports Nets. 34,958; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Regina Water Wave Net with Chin Elastic. For Water-Wave Nets. 34,959; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Jean Water Wave Net with Chin Elastic. For Water-Wave Nets. 34,960; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Lorraine Water Wave Net with Chin Elastic. For Water-Wave Nets. 34,961; Nov. 20.
Glemby's, S., Sons Co., Inc., New York, N. Y. Kressent Water Wave Net with Chin Elastic. For Water-Wave Nets. 34,962; Nov. 20.
Golden Age Co. (See Scotland, Bayard S.)
Graham Paper Company, St. Louis, Mo. Forest Park Toilet Tissue. For Toilet Paper. 34,963; Nov. 20.
Greusard, Edward, Los Angeles, Calif. Gold Bath. For Liquid Sulphur. 34,964; Nov. 20.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Enamel Cleaner. For Enamel Cleaner in Powder Form. 34,965; Nov. 20.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Oxo Bowl Cleaner. For Bowl Cleaner in Powder Form. 34,966; Nov. 20.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Rat and Mouse Killer. For Rat and Mouse Killer in Paste Form. 34,967; Nov. 20.
Heller, B., & Company, Chicago, Ill. Heller's Fancy-Pastry Dessert Powder. For Preparation in Powder Form for Making Desserts. 34,968; Nov. 20.
Heller, B., & Company, Chicago, Ill. Heller's Jell-Jell. For Gelatine Dessert in Powder Form. 34,969; Nov. 20.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Rat and Mouse Killer. For Rat and Mouse Killer in Paste Form. 34,970; Nov. 20.
Ifyu, James, Sons & Company, Crown Point, Ind. Worlds Best Soup Hungarian Gulash. For Canned Soup. 34,971; Nov. 20.
Jewel Tea Co., Inc., Central Valley, N. Y., and Chicago, Ill. Jewel Best Coffee. For Coffee. 34,972; Nov. 20.
Kinkead, W. S., Chicago, Ill. Brite Brass Linoleum Seam Binding & Edging. For Linoleum Seam Binding and Edging. 34,973; Nov. 20.
Kitzen, Jacob S., New York, N. Y. Velve. For Milady's Beauty Bath. For Bath Preparations. 34,974; Nov. 20.
Lorthioir, Emile, doing business as Bellmore Candy Company, Bellmore, Long Island, N. Y. Southern Pecan Delight, A Food Candy. For a Bar of Pecan-Covered Candy. 34,975; Nov. 20.
Minnesota Valley Canning Company, Le Sueur, Minn. Green Giant. For Peas. 34,976; Nov. 20.
Minnesota Valley Canning Company, Le Sueur, Minn. Del Maiz. For Corn. 34,977; Nov. 20.
Neighborhood Stores, Inc., San Francisco, Calif. Neighborhood. For Coffee. 34,978; Nov. 20.
Pan-American Chemical Co., Santa Rita, N. Mex., and Chicago, Ill. Zonox. For Dentifrice, Mouth Wash, and Gargle. 34,979; Nov. 20.
Scotland, Bayard S., doing business as Golden Age Co., Joliet, Ill. Golden Age Jel. For Gelatin Dessert. 34,980; Nov. 20.
Southern Dairies, Inc., Washington, D. C. Polar B'ar. For Bodies of Ice Cream Having a Coating of Edible Substance. 34,981; Nov. 20.
Van's Sun Dried Okra Co., New Orleans, La. Van's Brand. For Okra. 34,982; Nov. 20.
Vegetable Products Corporation, Los Angeles, Calif. Whole Wheat Vegetized Wafers. For a Wafer. 34,983; Nov. 20.
Watling, John B., doing business as The Watling Scale Company, Chicago, Ill. Watch Your Wate Guard Your Health. For Weighing Scales. 34,984; Nov. 20.
Watling, Thomas W. B., doing business as Watling Manufacturing Company, Chicago, Ill. Your Fortune and Weight. For Weighing Scales. 34,985; Nov. 20.
White & Wyckoff Mfg. Co., Holyoke, Mass. Penarth Linen. For Stationery and Envelopes. 34,986; Nov. 20.
Wright, G. F., Steel & Wire Company, Worcester, Mass. G. F. Wright Steel & Wire Co. For Poultry-Netting Rolls. 34,987; Nov. 20.

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Use Elizabeth Arden's Preparations. For Venetian Toilet Preparations. 11,334; Nov. 20.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Black Cough Drops. For Cough Drops. 11,335; Nov. 20.
Curtiss Candy Company, The, doing business as Curtiss Gum Company, Chicago, Ill. The Flavor Sticks. For Chewing Gum. 11,336; Nov. 20.
M. J. B. Company, San Francisco, Calif. The Man's Choice—M. J. B.—The Full-Flavored Coffee. For Coffee. 11,337; Nov. 20.
Standard Textile Products Company, The, New York, N. Y. Expressing Charm in Interior Decorations. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. 11,338; Nov. 20.
Veldown Company, Inc., New York, N. Y. Swanfleece for Every Woman. For Sanitary Napkins. 11,339; Nov. 20.
Veldown Company, Inc., New York, N. Y. Comodora Para Toda Mujer. For Sanitary Napkins. 11,340; Nov. 20.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aeronautical Digest Publishing Corporation, The, New York, N. Y. Magazine. 278,791; Nov. 20. Class 38.
Aktiengesellschaft Chocolat Tobler, Bern, Switzerland. Cocoa, chocolate, condensed and evaporated milk. 270,156; Nov. 20. Class 46.
Aktiengesellschaft Chocolat Tobler, Bern, Switzerland. Cocoa, chocolate, chocolate candy, etc. 270,158–9; Nov. 20. Class 46.
American Sports Publishing Association. (See Snover, Charles F.)
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio. Wire rope. 270,066; Nov. 20. Class 7.
Andrews & Knowles, Inc., Mount Olive, N. C. Vegetable seeds. 273,349; Nov. 20. Class 1.
Arden, Elizabeth, Inc., New York, N. Y. Skin cream, skin tonic, muscle oil, etc. 271,735; Nov. 20. Class 6.
Armstrong Cork Company, Pittsburgh, Pa. Linoleum and felt-base floor coverings, and rugs. 271,636; Nov. 20. Class 20.
Around the World Gum Co. (See Goudey Gum Company, The.)
Artifex Chemische Fabrik G. m. b. H., Hamburg, Germany. Blocks, tablets, cylinders, etc. 253,489; Nov. 20. Class 4.
Artloom Corporation, Philadelphia, Pa. Textile rugs. 272,847; Nov. 20. Class 42.
Artloom Corporation, Philadelphia, Pa. Textile rugs. 273,174; Nov. 20. Class 42.
Artophone Corporation, The, St. Louis, Mo. Phonograph reproducer. 268,903; Nov. 20. Class 36.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. Woolen and worsted fabrics. 272,194; Nov. 20. Class 42.

Baum, Oscar, Washington, D. C. Furniture. 272,925; Nov. 20. Class 32.

Behr-Manning Corporation, Green Island, Troy, N. Y. Abrasive papers and cloths. 272,455–8; Nov. 20. Class 4.

Behr-Manning Corporation, Green Island, Troy, N. Y. Abrasive papers and cloths. 272,460–4; Nov. 20. Class 4.

Bennett-Watts-Haywood Co., Lafayette, Ind., and Chicago, Ill. Periodical. 266,912; Nov. 20. Class 38.

Bitterman, Simon, doing business as Jeru Artichoke Products Company, Denver, Colo. Dried Jerusalem artichoke flakes. 268,671; Nov. 20. Class 46.

Black Kat Kitchen Company, South Bend, Ind. Sandwiches. 273,574; Nov. 20. Class 46.

Blanck & Carrier Corp., New York, N. Y. Carbon, graphite, and metal brushes, etc. 265,362; Nov. 20. Class 21.

Bloch Company, The, Cleveland, Ohio. Men's suits and overcoats. 272,973; Nov. 20. Class 39.

Blom, Nora H., Los Angeles, Calif. Publication. 257,046; Nov. 20. Class 38.

Bonney Forge & Tool Works, Allentown, Pa. Wrenches, sockets, and attachments pertaining thereto. 272,974; Nov. 20. Class 23.

Bouer-Goldstein, B. L., Company, Chicago, Ill. Bar pins, bracelets, lockets, etc. 271,114; Nov. 20. Class 28.

Boyle, John, & Company, Incorporated, New York, N. Y. Woven awning stripe. 273,099; Nov. 20. Class 42.

Bridgeport Life Publishing Company, The, Bridgeport, Conn. Newspapers. 273,430; Nov. 20. Class 38.

Bronx Jobbing House, New York, N. Y. Blank books. 266,414; Nov. 20. Class 37.

Brown, Frederick, doing business as Brown's, Paterson, N. J. Bread. 272,692; Nov. 20. Class 46.

Buckeye Overall Company, The, Versailles, Coldwater, and Greenville, Ohio. Overalls, coveralls, shirts, etc. 271,428; Nov. 20. Class 39.

Bullock's, Inc., Los Angeles, Calif. Textile woven blankets. 272,196; Nov. 20. Class 42.

California-Eastern Oil Co., Los Angeles, Calif. Gasoline. 271,531; Nov. 20. Class 15.

Campana Corporation, Batavia, Ill. Lotions. 273,339; Nov. 20. Class 6.

Campbell, Inc., Chicago, Ill. Hosiery. 271,876; Nov. 20. Class 39.

Capt. Post Horse Radish & Pickle Co., Inc. (See Mintz, Jack.)

Caughey, Frank T., Company, Detroit, Mich. Scratch feeds. 272,598; Nov. 20. Class 46.

Chase Brass & Copper Company, Waterbury, Conn. Tubular body members for electric flash lights, socket casings, etc. 272,750; Nov. 20. Class 21.

Chicago Daily News, Inc., The, Chicago, Ill. Monthly publication. 273,799; Nov. 20. Class 38.

Church & Knowlton, Salinas, Calif. Fresh vegetables and cantaloupes. 272,977; Nov. 20. Class 46.

Cluett, Peabody & Co., Inc., Troy, N. Y. Collars. 272,699; Nov. 20. Class 39.

Cohen, Joseph H., doing business as The Perfection Motor Products Company, Bridgeport, Conn. Electric cigar lighters. 272,094; Nov. 20. Class 21.

Colebrookdale Iron Company, Colebrookdale, Pa. Electric flatirons. 273,044; Nov. 20. Class 21.

Commander Milling Company, Minneapolis, Minn. Wheat flour. 268,917; Nov. 20. Class 46.

Compagnie des Mines de Vicoigne, Noeux & Drocourt, Noeux-les-Mines, France. Combustible matter. 261,555; Nov. 20. Class 1.

Cooling Devices (America) Ltd., New York, N. Y. Massaging devices. 272,752; Nov. 20. Class 44.

Cooper, Wells & Co., St. Joseph, Mich. Hosiery. 269,017; Nov. 20. Class 39.

Cresta Blanca Company, San Francisco, Calif. General medicinal tonic. 272,980; Nov. 20. Class 6.

Dalton Hosiery Mills Inc., now by change of name Westcott Hosiery Mills, Dalton, Ga. Hosiery. 258,104; Nov. 20. Class 39.

Darnee Inc., New York, N. Y. Toilet soaps and shaving cream. 272,646; Nov. 20. Class 4.

Davis Products Co., Winchester, Va. Mayonnaise. 272,868; Nov. 20. Class 46.

Davis Standard Bread Co., Incorporated, Los Angeles, Calif. Doughnuts. 271,686; Nov. 20. Class 46.

Disston, Henry, & Sons, Incorporated, Tacony, Philadelphia, Pa. Saw files. 272,935; Nov. 20. Class 23.

Draycott Mills, Incorporated, Fulton, N. Y. Floor pads and sheet fibrous or feltlike material. 272,078; Nov. 20. Class 50.

Dressoline Manufacturing Company, Chicago, Ill. Antiseptic salve. 269,642; Nov. 20. Class 6.

Dresswell Shirts, Inc., New York, N. Y. Shirts and pajamas. 269,720; Nov. 20. Class 39.

Drubin-Lightman, Inc., New York, N. Y. Dresses, frocks, ensembles, etc. 271,379; Nov. 20. Class 39.

Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 272,098; Nov. 20. Class 43.

Eagle Javelle Water Co., Philadelphia, Pa. Liquid preparation. 270,175; Nov. 20. Class 6.

Edwins, R. C., Gulfport, Miss. Tube patching, belting, hose, etc. 271,174; Nov. 20. Class 35.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 263,204; Nov. 20. Class 22.

Feldman, David, doing business as Feldman and Sons, Baltimore, Md. Work shirts. 271,887; Nov. 20. Class 39.

Fifield, James C., Company, The, Minneapolis, Minn. Publication. 273,365; Nov. 20. Class 38.

Fitler, Edwin H., Co., The, Philadelphia, Pa. Manila rope. 273,651; Nov. 20. Class 7.

Flamhaft, Harry, doing business as Roubeches Import Co., New York, N. Y. Natural and synthetic oils. 272,938; Nov. 20. Class 6.

Flying Togs, Inc., Inglewood, Calif. Aviators' helmets, aviator's garments. 272,939; Nov. 20. Class 39.

Fogarty Manufacturing Co., The, Dayton, Ohio. Nonelectrical metal sign. 272,883; Nov. 20. Class 50.

Gamble Stores, Incorporated, Fergus Falls, Minn. Radiator cement. 272,264; Nov. 20. Class 6.

Gamble Stores, Incorporated, Fergus Falls, Minn. Golf balls. 273,458; Nov. 20. Class 22.

Gatlin Brothers Chemical Company, Inc., Ashland, Ky. General household cleansing preparation. 271,600; Nov. 20. Class 4.

Gellman, Benjamin, doing business as Paloma Manufacturing Company, Philadelphia, Pa. Hairdressing cream. 263,389; Nov. 20. Class 6.

Gibson Art Company, The, Cincinnati, Ohio. Playing cards. 272,651–2; Nov. 20. Class 22.

Gilmer Grocery Company, Indianola, Miss., and Memphis, Tenn. Wheat flour. 262,355; Nov. 20. Class 46.

Goldberg, Adolph, New York, N. Y. Articles of platinum and gold jewelry. 272,806; Nov. 20. Class 28.

Goldsmith, P., Sons Company, The, Cincinnati, Ohio. Golf and tennis balls, golf clubs, and tennis rackets. 272,267; Nov. 20. Class 22.

Goldstein, Aaron & Co., Inc., New York, N. Y. Women's coats. 272,861; Nov. 20. Class 39.

Good, Harry H., doing business as Dr. Tutt Manufacturing Co., New York, N. Y. Liver pills. 273,545; Nov. 20. Class 6.

Goudey Gum Company, The, doing business as Around the World Gum Co., Allston, Boston, Mass. Chewing gum. 273,869; Nov. 20. Class 46.

Gould Storage Battery Co., Inc., Depew, N. Y. Storage batteries and parts thereof. 273,297; Nov. 20. Class 21.

Gove, Helen N., doing business as Gove Manufacturing Company, Williamsport, Pa. Figurettes and doll products. 271,755; Nov. 20. Class 22.

Gove, Helen N., doing business as Gove Manufacturing Company, Williamsport, Pa. Figurettes and models. 273,747; Nov. 20. Class 50.

Grand Rapids Plaster Company, Grand Rapids, Mich. Plaster. 273,484; Nov. 20. Class 12.

Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Rubber toys. 273,462; Nov. 20. Class 22.

Hatch & Bailey Company, The, South Norwalk, Conn. Rough lumber and timber. 249,476; Nov. 20. Class 1.

Hawes & Curtis, London, England. Dressing gowns, dress and negligee shirts, pajamas, etc. 266,993; Nov. 20. Class 39.

Hikell, Suph, doing business as La Dana Laboratories, Omaha, Nebr. Face creams, hair tonic, rouge, pomades, etc. 261,880; Nov. 20. Class 6.

Hilex Company, The, St. Paul, Minn. Liquid cleaning, deodorizing, and disinfecting preparation. 268,155; Nov. 20. Class 6.

Hill Independent Manufacturing Company, Germantown, Philadelphia, Pa. Hand stamps. 272,561; Nov. 20. Class 37.

Holstein Harvey, Inc., Wilmington, Del. Coffee. 256,253; Nov. 20. Class 46.

Industrial Oil Corporation, Warren and Stoneham, Pa. Motor oils. 271,895; Nov. 20. Class 15.

Inserted Valve Seat & Tool Company Incorporated, Detroit, Mich. Tools, cutters for said tools, renewal ring inserts, etc. 273,548; Nov. 20. Class 23.

International Textile Corporation, Inglewood, Calif. Hosiery. 264,586; Nov. 20. Class 39.

International Worsted Mills, Methuen, Mass., and New York, N. Y. Worsted goods in the piece. 260,637; Nov. 20. Class 42.

Jeru Artichoke Products Company. (See Bitterman, Simon.)

Jevne, H., Co., Los Angeles, Calif. Coffee. 263,474; Nov. 20. Class 46.

Kapfer, Albert W., Buffalo, N. Y. Necktie or scarf clasp. 272,565; Nov. 20. Class 28.

Kawneer Company, The, Niles, Mich. Metal mouldings. 265,602–3; Nov. 20. Class 12.

Kline, Smith, & French Company, Philadelphia, Pa. Seasick medicine and preventive, etc. 271,513; Nov. 20. Class 6.

Klip Chemical Company, New York, N. Y. Insecticides. 273,465; Nov. 20. Class 6.

Kretnik & Feigenbaum, New York, N. Y. Sport coats, traveling coats, and dress coats. 268,375; Nov. 20. Class 39.



PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

La Dana Laboratories. (See Hikell, Suph.)

La Societe Anonyme les Parfumeries de Gabilla, Paris, France. Perfumes, toilet waters, rouges, etc. 271,848–9; Nov. 20. Class 6.

Lawrence, A. C., Leather Company, Boston, Mass. Shearlings or wool pelts. 270,998; Nov. 20. Class 1.

Leedom, Theodore C., doing business as The Red Top Coffee Co., Toledo, Ohio. Coffee, tea, and cocoa. 273,148; Nov. 20. Class 46.

Le Nore, Inc., Chicago, Ill. Silk in the piece. 266,469; Nov. 20. Class 42.

Lincolnsfield Mills, Boston, Mass. Worsted piece goods. 273,303; Nov. 20. Class 42.

Loeb, Eugene, doing business as Loeb's Dietetic Food Bakery, New York, N. Y. Gluten bread and noodles, dietetic cocoa, casein muffins, etc. 271,968; Nov. 20. Class 46.

Lowe, Joe, Co. Inc., Brooklyn, N. Y. Doughnuts. 254,922; Nov. 20. Class 46.

Lucas, Parker V., doing business as Medical Sundries Company, Dallas, Tex. Sanitary protector kit. 265,730; Nov. 20. Class 44.

Mackenzie, Robt. F., Co., The, Cleveland, Ohio. Candy. 272,163; Nov. 20. Class 46.

Magazine Publishers, Inc., New York, N. Y. Magazine. 272,947; Nov. 20. Class 38.

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 273,704–7; Nov. 20. Class 42.

Man-O-Lamp Corporation, New York, N. Y. Electric table lamps, boudoir lamps, etc. 271,260; Nov. 20. Class 21.

Margolin, George, New York, N. Y. Advertising and display signs. 269,903; Nov. 20. Class 50.

Marvel Radio Man'f'g Co., Inc., Des Moines, Iowa. Radio crystal receiving sets. 272,167; Nov. 20. Class 21.

May & Malone, Chicago, Ill. Golf balls. 245,506; Nov. 20. Class 22.

Mayer & Schmidt Schleifmaschinen & Schmiergelwerke, A. G., Offenbach-on-the-Main, Germany. Aluminous artificial abrasives. 256,358; Nov. 20. Class 4.

Mayers, L. & C., Co., New York, N. Y. Watches and parts thereof. 272,338; Nov. 20. Class 27.

Medical Sundries Company. (See Lucas, Parker V.)

Merrell, Fred L., Portland, Oreg. Salve. 272,175; Nov. 20. Class 6.

Metcalf, Arthur H., doing business as Sal-O-Lax Co., New Haven, Conn. Laxatives and cathartics. 264,036; Nov. 20. Class 6.

Mid-States Gummed Paper Company, Chicago, Ill. Paper tape. 270,434; Nov. 20. Class 37.

Midwest Refining Company, Denver, Colo. Lubricating oils. 273,202; Nov. 20. Class 15.

Milwaukee Printing Company, Milwaukee, Wis. Counter and window display cards, circulars, etc. 263,620; Nov. 20. Class 38.

Minnesota Specialty Company, St. Paul, Minn. Leather key cases. 217,573; Nov. 20. Class 3.

Mintz, Jack, doing business as Capt. Post Horse Radish & Pickle Co., Inc., New York, N. Y. Horse-radish. 262,619; Nov. 20. Class 46.

Mon Vel Company. (See Rabinow, Harry L.)

Morrison, Theodore V., doing business as Ton-So-Rem Products Co., Atlanta, Ga. Medical compound. 270,753; Nov. 20. Class 6.

Mount Zircon Spring Water Company, Rumford, Me. Spring water and ginger ale. 272,829; Nov. 20. Class 45.

Mountain States Honey Producers Association, Boise, Idaho. Honey. 268,994; Nov. 20. Class 46.

Monck, Theodore, Los Angeles, Calif. Coffee. 272,571; Nov. 20. Class 46.

National Sign Co., The, Milwaukee, Wis. Nonelectrical advertising signs. 270,676; Nov. 20. Class 50.

Nat. Tex. Dist. Corp., New York, N. Y. Textile blankets, sheets, quilts, etc. 273,751; Nov. 20. Class 42.

National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. 272,728; Nov. 20. Class 24.

Norfolk Packing Co., Norfolk, Nebr. Canned vegetables, sauerkraut, etc. 271,074; Nov. 20. Class 46.

Odorono Company, The, Cincinnati, Ohio. Deodorants and preparation. 269,976; Nov. 20. Class 6.

Oil Age Publishing Co., Inc., Los Angeles, Calif. Periodical 273,510; Nov. 20. Class 38.

Old Mission Fig Bar Co. (See Wheatley, Noah M.)

Olympia Canning Company, Olympia, Wash. Canned vegetables. 272,048; Nov. 20. Class 46.

Optical Service Corporation, New York, N. Y. Ophthalmic lenses. 272,509; Nov. 20. Class 26.

Pabst Corporation, Milwaukee, Wis. Malt syrup. 260,846; Nov. 20. Class 46.

Paloma Manufacturing Company. (See Gellman, Benjamin.)

Pappas, Theros, Dallas, Tex. Table syrup. 271,619; Nov. 20. Class 46.

Paris Dry Goods Co., The, Great Falls, Mont., and New York, N. Y. Shoes and hosiery. 268,384; Nov. 20. Class 39.

Patek Brothers, Inc., Milwaukee, Wis. Paint enamel. 273,409; Nov. 20. Class 16.

Patterson-Sargent Company, The, Cleveland, Ohio. Drier, liquid filler, paints, etc. 267,789; Nov. 20. Class 16.

Peck & Peck, New York, N. Y. Woolen piece goods. 273,669; Nov. 20. Class 42.

Penn-Sentinel Oil Co., Inc., Dallas, Tex. Lubricating oils and greases. 273,513; Nov. 20. Class 15.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Cotton canvas work gloves. 270,048; Nov. 20. Class 39.

Perfection Motor Products Company, The. (See Cohen, Joseph H.)

Perozzi, Leon, doing business as Red Mule Malt Co., Camden, N. J. Malt syrup. 273,065; Nov. 20. Class 46.

Philatelic Publishing Co. Inc., The, New York, N. Y. Publication. 273,377; Nov. 20. Class 38.

Polefsky, Jacob S., New York, N. Y. Barley-malt extract. 266,268; Nov. 20. Class 46.

Premier Hosiery Co., The, Cincinnati, Ohio. Hosiery. 271,508; Nov. 20. Class 39.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. 272,804; Nov. 20. Class 4.

Proctor, John R., doing business as J. R. Proctor & Company, Lebanon and Pittsburgh, Pa. Liniment. 272,306; Nov. 20. Class 6.

Providence Malt Company, Providence, R. I. Malt syrup. 272,952; Nov. 20. Class 46.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,976–7; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,979–80; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,983–4; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,988; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,991; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,999; Nov. 20. Class 15.

Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oil, lubricating oils, etc. 272,001; Nov. 20. Class 15.

Puritan Candy Company, Milwaukee, Wis. Candy. 273,070; Nov. 20. Class 46.

Rabinow, Harry L., doing business as Mon Vel Company, New York, N. Y. Chap lotion. 263,891; Nov. 20. Class 6.

Realart Silk Hosiery Mills. (See Sachsenmaier, Frances.)

Red Mule Malt Co. (See Perozzi, Leon.)

Red Sun Products Co., Chicago, Ill. Malt syrup. 255,899; Nov. 20. Class 46.

Red Top Coffee Co., The. (See Leedom, Theodore C.)

Redalia Medicine Company, The, Columbus, Ohio. Medicine. 272,055; Nov. 20. Class 6.

Reeves & Sons Limited, London, England. Prepared clay or other materials. 271,821; Nov. 20. Class 1.

Rhoads, J. E., & Sons, Philadelphia, Pa. Leather belting. 273,008–12; Nov. 20. Class 35.

Rhoads, J. E., & Sons, Philadelphia, Pa. Leather belting. 273,014; Nov. 20. Class 35.

Rice-Stix Dry Goods Company, St. Louis, Mo. Rayon piece goods. 272,006; Nov. 20. Class 42.

Richardson Electric Corporation, Fort Lauderdale, Fla. Frequency changer. 271,621; Nov. 20. Class 21.

Roubeches Import Co. (See Flamhaft, Harry.)

Rutherford Chile Co., Kansas City, Mo. Canned beans and chili powder. 263,229; Nov. 20. Class 46.

Sachsenmaier, Frances, doing business as Realart Silk Hosiery Mills, Philadelphia, Pa. Hosiery. 269,321; Nov. 20. Class 39.

Sal-O-Lax Co. (See Metcalf, Arthur H.)

San Dimas Orange Growers Association, San Dimas, Calif. Oranges, lemons, and grapefruit. 271,906; Nov. 20. Class 46.

San Francisco Association for the Blind, San Francisco, Calif. Rugs and mats. 246,655; Nov. 20. Class 42.

Schering-Kahlbaum A. G., Berlin, Germany. Extirpating preparations, chemical dyestuffs, etc. 272,009; Nov. 20. Class 6.

Schneider Brothers, Inc., Chicago, Ill. Combination ash tray, cigarette and match holder. 270,207; Nov. 20. Class 8.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Noncorrodive metals. 264,534; Nov. 20. Class 14.

Scientific Cosmetic Laboratories, Chicago, Ill. Hair and scalp tonics. 272,901; Nov. 20. Class 6.

Seattle Astoria Iron Works, Seattle, Wash. Machinery. 271,276; Nov. 20. Class 23.

Seibach, John, Topeka, Kans. Machine for making cigarettes. 272,311; Nov. 20. Class 23.

Shirtcraft Company, Inc., The, New York, N. Y. Shirts and collars. 272,789; Nov. 20. Class 39.

Smidth, F. L., & Company, New York, N. Y. Parts of machines. 273,564; Nov. 20. Class 23.

Snover, Charles F., doing business as American Sports Publishing Association, Bay City, Mich. Indoor ball game. 273,384; Nov. 20. Class 22.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Societe Anonyme; Parfumerie Violet, Paris, France. Soaps, soap creams, and bath soaps. 270,786; Nov. 20. Class 4.

Stanton Milling & Sales Co., Los Angeles, Calif. Fish meal. 272,444; Nov. 20. Class 46.

Stearns, D. P., & Co., Chicago, Ill. Hosiery and underwear. 272,186; Nov. 20. Class 39.

Stedfast Rubber Company, Mattapan, Mass. Artificial leather. 272,962; Nov. 20. Class 1.

Stein, Hall Manufacturing Company, Chicago, Ill. Powder preparation used in baking. 271,716; Nov. 20. Class 46.

Stein, S., & Co., New York, N. Y. Woolen goods. 263,232; Nov. 20. Class 42.

Stein, S., & Co., New York, N. Y. Woolen goods. 271,666; Nov. 20. Class 42.

Sugar, Molly, doing business as Supero Laboratory Products Company, Ogden, Utah. Tooth paste, zinc-oxide ointment, etc. 219,210; Nov. 20. Class 6.

Sun Shine Laboratories, Colony, Kans. Feed balancing preparations for livestock and poultry. 265,074; Nov. 20. Class 46.

Supero Laboratory Products Company. (See Sugar, Molly.)

Syndicate Trading Company, New York, N. Y. Pearls. 272,628; Nov. 20. Class 28.

Taber & Tibbits, Inc., Wallingford, Conn. Silver-plated hollow ware. 271,090; Nov. 20. Class 28.

Tau Kappa Epsilon Fraternity, Lombard, Ill. Fraternity badges, coats of arms, shields, bracelets, etc. 268,325; Nov. 20. Class 28.

Thumann, H. H., & Sons, Redfield, Ark. Pestproof roosts for fowls. 271,515; Nov. 20. Class 50.

Ton-So-Rem Products Co. (See Morrison, Theodore V.)

Tutt, Dr., Manufacturing Co. (See Good, Harry H.)

United Arts and Crafts, Inc., New York, N. Y. Art goods. 266,156; Nov. 20. Class 50.

United Drug Company, Boston, Mass. Rubbing alcohol compound. 273,385; Nov. 20. Class 6.

United States Gypsum Company, Chicago, Ill. Plaster. 272,910; Nov. 20. Class 12.

Upjohn Company, The, Kalamazoo, Mich. Milk modifier for infant feeding. 272,585; Nov. 20. Class 46.

Urma Products Company, The, Louisville, Ky. Canned fruits and vegetables, coffee, rolled oats, etc. 267,906; Nov. 20. Class 46.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Product derived from wood. 273,166; Nov. 20. Class 6.

Vapohale Laboratories, Inc., New York, N. Y. Electric vaporizers. 273,334; Nov. 20. Class 44.

Venice Celery Distributors, Los Angeles, Calif. Fresh vegetables. 273,617; Nov. 20. Class 46.

Vermidine Company, The, Dallas, Tex. Poultry wormer. 273,386; Nov. 20. Class 6.

Vino Bar Corporation of America, Los Angeles, Calif. Raisins and dried fruit. 272,682; Nov. 20. Class 46.

Wall & Ochs, Incorporated, Philadelphia, Pa. Spectacles. 272,967; Nov. 20. Class 26.

Wallace & Co., Brooklyn, N. Y. Chocolates and candies. 271,581; Nov. 20. Class 46.

Webster, William A., Atlanta, Ga. Liquid for stopping runs in rayon and silk hosiery. 263,799; Nov. 20. Class 6.

Westcott Hosiery Mills. (See Dalton Hosiery Mills Inc.)

Wheatley, Noah M., doing business as Old Mission Fig Bar Co., Oakland, Calif. Fig bars. 264,185; Nov. 20. Class 46.

White Cloud Farms, Inc., Rock Tavern, N. Y. Earthenware drinking cups. 272,189; Nov. 20. Class 30.

White-Stokes Co., Inc., Chicago, Ill. Devil's food cake mix, marshmallow powder, pie thickener, etc. 272,840; Nov. 20. Class 46.

Whitehead, Howard L., San Francisco, Calif. Insecticides. 271,632; Nov. 20. Class 6.

Whittemore Bros. Corp., Cambridge, Mass. Shoe polishes, leather dressings, etc. 258,926; Nov. 20. Class 4.

Wilbar's, Inc., Boston, Mass. Hosiery. 265,596; Nov. 20. Class 39.

Wood, W. A., Co., Boston, Mass. Lubricating oils. 272,595; Nov. 20. Class 15.

Woolen Corporation of America, The, New York, N. Y. Wool, worsted, cotton, etc., in the piece. 273,217; Nov. 20. Class 42.

York and Company, Grand Rapids, Mich. Coal. 262,946; Nov. 20. Class 1.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 2.

Iron, steel, and manufactures. E. Hammesfahr. 32,082; renewed Oct. 18, 1928.

Sacks and bags. Adams Bag Company. 249,894; Nov. 24.

Vaults, Burial. McClain Brothers. 249,883; Nov. 20; Serial No. 268,378; published Sept. 11, 1928.

## CLASS 3.

Suitcases. Horton & Hubbard Mfg. Co. 249,679; Nov. 20; Serial No. 268,610; published Sept. 4, 1928.

## CLASS 4.

Aluminum cleanser, etc. I. Rokeach & Sons, Inc. 249,821; Nov. 20; Serial No. 266,620; published Sept. 4, 1928.

Cleaning compound, Metal-. Nock Chemical Laboratory. 249,684; Nov. 20; Serial No. 268,508; published Sept. 4, 1928.

Cloths and polishing mittens chemically treated, Polishing. Fraser Products Company. 249,629; Nov. 20; Serial No. 270,180; published Sept. 11, 1928.

Detergent compound. Wilson-Imperial Company. 249,732; Nov. 20; Serial No. 263,297; published Sept. 4, 1928.

Powders with and without incidental bleaching properties, Washing and cleansing. Whyto Manufacturing Company. 249,833; Nov. 20; Serial No. 268,201; published Sept. 11, 1928.

Shaving powder. Norub Company. 249,755; Nov. 20; Serial No. 269,363; published Sept. 4, 1928.

Soap. Nannt, Inc. 249,678; Nov. 20; Serial No. 268,624; published Sept. 4, 1928.

Soap. F. Ad. Richter & Co. of New York. 249,887; Nov. 20; Serial No. 268,310; published Sept. 4, 1928.

Soap, Cleansing and shaving. Pacquin, Inc. 249,628; Nov. 20; Serial No. 270,197; published Sept. 11, 1928.

Soap, Cream. Wm. H. Rankin Company. 249,920; Nov. 20.

Soap, dentifrice, and hair preparations. Comfort Powder Company. 32,703; renewed Apr. 11, 1929.

Soaps. Amorskin Corporation. 249,586; Nov. 20; Serial No. 269,072; published Sept. 4, 1928.

Soaps. P. P. Millhens. 249,739; Nov. 20; Serial No. 242,100; published Sept. 4, 1928.

Soaps. L. T. Piver, Inc. 249,783; Nov. 20; Serial No. 269,745; published Sept. 11, 1928.

Soaps and shaving cream, Toilet. Cheramy, Inc. 249,604; Nov. 20; Serial No. 270,368; published Sept. 11, 1928.

## CLASS 5.

Adhesives. Safety Glass and Xetal Products, Limited. 249,608; Nov. 20; Serial No. 239,826; published Sept. 4, 1928.

Cement and paste for laying linoleum. Congoleum-Nairn, Inc. 249,626; Nov. 20; Serial No. 270,237; published Sept. 4, 1928.

## CLASS 6.

Acid, Storage-battery. Wasco Manufacturing Co. 249,919; Nov. 20.

Alcohol, Rubbing. Bendiner & Schlesinger, Inc. 249,807; Nov. 20; Serial No. 269,885; published Sept. 11, 1928.

Anesthetic. H. A. Metz Laboratories, Inc. 249,804; Nov. 20; Serial No. 269,970; published Sept. 4, 1928.

Anesthetic in ampoule or tablet form or in solution, Local. Frederick Stearns & Company. 249,700; Nov. 20; Serial No. 270,327; published Sept. 11, 1928.

Antacid, etc. H. K. Mulford Company. 249,763; Nov. 20; Serial No. 269,542; published Sept. 4, 1928.

Astringents, cerates, bleach creams, etc. American Druggists Syndicate. 249,800; Nov. 20; Serial No. 270,161; published Sept. 4, 1928.

Chemical compounds and solutions for cleaning and treating metal surfaces. Passivation Products Company. 249,697; Nov. 20; Serial No. 270,349; published Sept. 11, 1928.

Chemical substance possessing medicinal properties as a hypnotic. Parke, Davis & Company. 249,698; Nov. 20; Serial No. 270,348; published Sept. 11, 1928.

Colloidal preparation of castor oil. Fairchild Bros. & Foster. 249,642; Nov. 20; Serial No. 270,579; published Sept. 11, 1928.

Concentrate for treatment of anemia. Fairchild Bros. & Foster. 249,630; Nov. 20; Serial No. 270,179; published Sept. 4, 1928.

Cough syrup. Hollings-Smith Co. 249,645; Nov. 20; Serial No. 270,490; published Sept. 11, 1928.

Cream, Face. Amorskin Corporation. 249,775; Nov. 20; Serial No. 270,273; published Sept. 11, 1928.

Cream for toilet use, Perfumed. Maison Jenny Societe Anonyme. 249,693; Nov. 20; Serial No. 270,382; published Sept. 11, 1928.

Cream hair tonic, bleaching astringent, etc., Cold. F. M. Percival. 249,892; Nov. 20; Serial No. 270,388; published Sept. 11, 1928.

Cream, Toilet. P. Beiersdorf & Co. Inc. 249,754; Nov. 20; Serial No. 269,343; published Sept. 11, 1928.

Cream, vanishing cream, rouge, etc., Cold. Isabey Paris, Inc. 249,835; Nov. 20; Serial No. 267,127; published Sept. 4, 1928.



Creams and lotions, Face. Elizabeth Arden, Inc. 249,634; Nov. 20; Serial No. 270,107; published Sept. 4, 1928.

Creams, Greaseless antiseptic healing. M. M. Fleron & Son, Inc. 249,594; Nov. 20; Serial No. 267,944; published Sept. 11, 1928.

Deodorant, Personal. D. R. Franklin. 249,631; Nov. 20; Serial No. 270,698; published Sept. 11, 1928.

Deodorants, disinfectants, etc. F. J. Curran. 249,806; Nov. 20; Serial No. 269,887; published Sept. 11, 1928.

Depilatory. A. W. Rossow. 249,886; Nov. 20; Serial No. 268,313; published Sept. 4, 1928.

Disinfectant and cleanser. Saiol Chemical Co. 249,560; Nov. 20; Serial No. 265 575; published Sept. 4, 1928.

Ethyl protocatechuic aldehyde. H. H. Fries. 249,714; Nov. 20; Serial No. 264,094; published Sept. 11, 1928.

Flavoring product for cigars, cigarettes, etc. Rumidor Corporation, The. 249,677; Nov. 20; Serial No. 268,634; published Sept. 4, 1928.

Foot powder, etc. Manhattan Drug Company. 249,562; Nov. 20; Serial No. 265,439; published Sept. 11, 1928.

Hairdressing. J. R. Jones. 249,758; Nov. 20; Serial No. 269,470; published Sept. 11, 1928.

Insecticides. H. F. Koch. 249,689; Nov. 20; Serial No. 270,430; published Sept. 11, 1928.

Laxative. N. Enge. 249,762; Nov. 20; Serial No. 269,518; published Sept. 4, 1928.

Liniment and salve for external use and salts for internal use. Radio Liniment & Salve Co. 249,913; Nov. 20.

Malt extract. Food Specialties Co. 249,810; Nov. 20; Serial No. 269,838; published Sept. 11, 1928.

Medicinal preparation. J. C. Eno, Limited. 32,315; renewed Jan. 3, 1929.

Medicinal preparation for the relief of frequent desire to urinate. M. Klein. 249,696; Nov. 20; Serial No. 270,338; published Sept. 11, 1928.

Medicine. E. Bilhuber, Inc. 249,687; Nov. 20; Serial No. 270,458; published Sept. 11, 1928.

Medicine. Hollings-Smith Co. 249,686; Nov. 20; Serial No. 270,480; published Sept. 11, 1928.

Medicine for horses, Kidney. F. B. Mason. 249,829; Nov. 20; Serial No. 268,991; published Sept. 11, 1928.

Medicine for the treatment of cholera morbus, etc. Hollings-Smith Co. 249,650; Nov. 20; Serial No. 270,485; published Sept. 11, 1928.

Medicine for treatment of chronic, rheumatic, hepatic, etc., affections. Hollings-Smith Co. 249,685; Nov. 20; Serial No. 270,481; published Sept. 11, 1928.

Medicine for the treatment of colds. Hollings-Smith Co. 249,649; Nov. 20; Serial No. 270,486; published Sept. 11, 1928.

Medicine for treatment of constipation. Hollings-Smith Co. 249,646; Nov. 20; Serial No. 270,489; published Sept. 11, 1928.

Medicine for the treatment of dropsy, etc. Hollings-Smith Co. 249,648; Nov. 20; Serial No. 270,487; published Sept. 11, 1928.

Medicine for treatment of hysteria, etc. Hollings-Smith Co. 249,647; Nov. 20; Serial No. 270,488; published Sept. 11, 1928.

Medicine for treatment of nervousness. Knox Company. 249,779; Nov. 20; Serial No. 270,251; published Sept. 4, 1928.

Nerve tonic and stimulant. Hollings-Smith Co. 249,651; Nov. 20; Serial No. 270,482; published Sept. 11, 1928.

Oil, Pine. Kalil Manufacturing Co. 249,638; Nov. 20; Serial No. 270,083; published Sept. 4, 1928.

Perfumes and hygienic products. Henri Bendel, Inc. 249,774; Nov. 20; Serial No. 270,275; published Sept. 11, 1928.

Perfumes, toilet water, etc. Lentheric, Incorporated. 249,644; Nov. 20; Serial No. 270,552; published Sept. 11, 1928.

Permanent-waving oil and hair-curling lotion. S. Glemby's Sons Co. Inc. 249,690; Nov. 20; Serial No. 270,419; published Sept. 11, 1928.

Photographic developers. Eastman Kodak Company. 249,625; Nov. 20; Serial No. 270,240; published Sept. 4, 1928.

Plasters, Kidney. G. C. Deane. 249,577; Nov. 20; Serial No. 252,091; published Sept. 11, 1928.

Polish, Nail. Samuel Bonat & Bro. 249,641; Nov. 20; Serial No. 270,007; published Sept. 4, 1928.

Powder, Foot. C. H. Marks. 249,879; Nov. 20; Serial No. 268,456; published Sept. 11, 1928.

Powders, Sachet, face, and talcum. L. T. Piver, Inc. 249,784; Nov. 20; Serial No. 269,744; published Sept. 11, 1928.

Preparation for intramuscular injections, etc. Chemische Fabrik von Heyden, A. G. 249,595; Nov. 20; Serial No. 267,933; published Sept. 4, 1928.

Preparation for raising blood pressure. Parke, Davis & Company. 249,661; Nov. 20; Serial No. 257,306; published Sept. 11, 1928.

Preparation for rheumatism. Debi and McDaniel. 249,828; Nov. 20; Serial No. 267,125; published Sept. 4, 1928.

Preparation for stimulating contractions of uterine and other muscular fibers. Parke, Davis & Company. 249,657; Nov. 20; Serial No. 257,741; published Sept. 11, 1928.

Preparation for the external treatment of diseases and poisoning of the skin, Liquid. H. E. Brush. 249,703; Nov. 20; Serial No. 270,317; published Sept. 11, 1928.

Preparation for the skin. W. C. Neilly. 249,637; Nov. 20; Serial No. 270,000; published Sept. 4, 1928.

Preparation for treating floors and walls of tile, etc., Liquid. W. A. Vogel. 249,583; Nov. 20; Serial No. 269,008; published Sept. 11, 1928.

Preparation for use in treatment of headache, backache, and toothache. Marswell, Incorporated. 249,830; Nov. 20; Serial No. 268,988; published Sept. 11, 1928.

Preparation to be used as a laxative, Liquid. E. R. Squibb & Sons. 249,688; Nov. 20; Serial No. 270,448; published Sept. 11, 1928.

Products for preservation of human dead. Naturo Mfg. Co. 249,760; Nov. 20; Serial No. 269,546; published Sept. 11, 1928.

Salve or ointment, etc. Manhattan Drug Company. 249,561; Nov. 20; Serial No. 265,440; published Sept. 11, 1928.

Sclerosing solution. Invertose Laboratories Co., The 249,831; Nov. 20; Serial No. 268,984; published Sept. 4, 1928.

Solution for radiators, Nonfreezing. Standard Land Company. 249,584; Nov. 20; Serial No. 269,003; published Sept. 11, 1928.

Spray, Nose and throat. Stanco Incorporated. 249,823; Nov. 20; Serial No. 266,628; published Sept. 4, 1928.

Sulphate of ammonia, nitrate of soda, etc. Barrett Company. 249,691; Nov. 20; Serial No. 270,411; published Sept. 11, 1928.

Sulphate of ammonia, nitrate of soda, etc. Barrett Company. 249,805; Nov. 20; Serial No. 269,935; published Sept. 4, 1928.

Tanning compositions. Grasselli Chemical Company. 249,802; Nov. 20; Serial No. 270,125; published Sept. 4, 1928.

Tonic and mild laxative, General. Pan-American Drug Company, Inc. 249,777; Nov. 20; Serial No. 270,259; published Sept. 11, 1928.

Tonic in tablet form, Vitalizing. E. W. Parker. 249,544–5; Nov. 20; Serial Nos. 265,001–2; published Sept. 11, 1928.

Tonic, Medicinal. P. de la Montanya. 249,827; Nov. 20; Serial No. 266,979; published Sept. 4, 1928.

Tooth powder, paste, and wash. Manhattan Drug Company. 249,563; Nov. 20; Serial No. 265,438; published Sept. 11, 1928.

Vaccine, Blackleg. O. M. Franklin Blackleg Serum Company. 249,704; Nov. 20; Serial No. 270,290; published Sept. 11, 1928.

## CLASS 11.

Ink, Indorsing-machine. American Perforator Co., The. 249,674; Nov. 20; Serial No. 268,669; published Sept. 11, 1928.

## CLASS 13.

Bathroom fixtures. United Wire Goods Mfg. Co. 249,598; Nov. 20; Serial No. 267,876; published Sept. 11, 1928.

Bathtubs, sitz baths, etc. Henion and Hubbell. 249,715; Nov. 20; Serial No. 263,945; published Sept. 11, 1928.

## CLASS 14.

Alloys, Ferrous and nonferrous, etc. Wm. J. Sweet Foundry Co. 249,682; Nov. 20; Serial No. 268,569; published Sept. 4, 1928.

Nickel, Pieces of. International Nickel Company. 249,552; Nov. 20; Serial No. 261,194; published Sept. 4, 1928.

Steels, Nonrusting, nonstaining alloy. Cyclops Steel Company. 249,571; Nov. 20; Serial No. 265,145; published Aug. 28, 1928.

## CLASS 15.

Gasoline. Lubrite Refining Company. 249,573; Nov. 20; Serial No. 269,124; published Sept. 4, 1928.

Gasoline, kerosene, etc. Simon Oil Company. 249,871; Nov. 20; Serial No. 260,359; published Sept. 4, 1928.

Kerosene, gasoline, naptha, etc. MacMillan Petroleum Products Company. 249,592; Nov. 20; Serial No. 267,981; published Sept. 11, 1928.

Oil, Brake. Bendix Brake Company. 249,909; Nov. 20.

Oil, Road. Trinidad Lake Petroleum Company. 249,623; Nov. 20; Serial No. 254,874; published Sept. 4, 1928.

Oils and greases, gasoline, and kerosene, Lubricating. Riley Penn Oil Co. 249,899; Nov. 20.

Oils and greases, Lubricating. Patapsco Oil & Grease Co. 249,710; Nov. 20; Serial No. 264,188; published Sept. 4, 1928.

Oils, greases, and waxes, etc. Vacuum Oil Company. 249,580; Nov. 20; Serial No. 268,122; published Sept. 11, 1928.

Oils, Motor fuel. Hercules Oil Co. 249,874; Nov. 20; Serial No. 259,444; published Sept. 4, 1928.

## CLASS 16.

Enamels, colors, etc., Ceramic. General Color Products Co. 249,726; Nov. 20; Serial No. 263,871; published Sept. 4, 1928.

Japans, paint enamels, and varnishes, Black baking. Hilo Varnish Corporation. 249,860; Nov. 20; Serial No. 268,983; published Aug. 28, 1928.

Paint. Hill-Hubbell & Company. 249,897; Nov. 20.

Paint, Silver. W. R. Knott. 249,788; Nov. 20; Serial No. 269,665; published Sept. 4, 1928.

Paints and varnishes, Ready-mixed. C. Rollins. 249,751; Nov. 20; Serial No. 269,002; published Aug. 28, 1928.

Paints, fillers, shellacs, etc., Dry and ready-mixed. Red Spot Paint & Varnish Co. 249,840; Nov. 20; Serial No. 267,389; published Sept. 4, 1928.

Wood-finishing solution. American Crayon Company. 249,870; Nov. 20; Serial No. 260,786; published Sept. 4, 1928.

CLASS 17.

Cigars. The Kildow Cigar Company, Inc. 249,759; Nov. 20; Serial No. 269,473; published Sept. 11, 1928.
Cigars. Park & Tilford. 249,669; Nov. 20; Serial No. 268,805; published Sept. 11, 1928.
Tobacco. H. Sutliff. 249,891; Nov. 20; Serial No. 268,251; published Sept. 11, 1928.
Tobacco and cigarettes, Smoking and chewing. Brown & Williamson Tobacco Corporation. 249,773; Nov. 20; Serial No. 270,277; published Sept. 11, 1928.

CLASS 19.

Airplanes and structural parts. G. Elias & Bro. Inc. 249,799; Nov. 20; Serial No. 269,775; published Sept. 11, 1928.
Boats, Outboard. Alloy Boat Corporation. 249,811; Nov. 20; Serial No. 269,817; published Sept. 11, 1928.
Braking mechanisms and parts, recoil checks, etc., Friction. John Warren Watson Company. 249,591; Nov. 20; Serial No. 268,010; published Sept. 11, 1928.

CLASS 20.

Floor covering made principally of rubber. Archer Rubber Products Co, Inc. 249,782; Nov. 20; Serial No. 269,762; published Sept. 11, 1928.
Linoleum. Carthage Mills Incorporated. 249,817; Nov. 20; Serial No. 266,355; published Sept. 11, 1928.

CLASS 21.

Automobile accessories. Inter-State Auto Parts Co. 249,737; Nov. 20; Serial No. 243,314; published Sept. 11, 1928.
Batteries. J. Block. 249,872; Nov. 20; Serial No. 259,992; published Sept. 11, 1928.
Contact rectifiers. Westinghouse Electric & Manufacturing Company. 249,615; Nov. 20; Serial No. 245,942; published Sept. 4, 1928.
Electric appliances, Portable. Chicago Flexible Shaft Company. 249,600; Nov. 20; Serial No. 267,834; published Sept. 4, 1928.
Electric cigar lighters. Lee-O-Lectric Mfg. Co. 249,848; Nov. 20; Serial No. 267,595; published Aug. 14, 1928.
Electric incandescent lamps and elektron radiotubes. Consolidated Electric Lamp Co. 249,914; Nov. 20.
Electric lamps. S & M Lamp Co. Incorporated. 249,902; Nov. 20.
Electric switches, signals, etc. Mico-Products, Inc. 249,551; Nov. 20; Serial No. 261,374; published Sept. 4, 1928.
Electric traffic-control systems, Automatic. Automatic Signal Corporation. 249,865; Nov. 20; Serial No. 268,905; published Sept. 4, 1928.
Electrical conductors and nonmetallic conduits, Insulated. Wiremold Company. 249,905; Nov. 20.
Lighting fixtures, Electrical. Skinner-Hill Co. 249,617; Nov. 20; Serial No. 257,122; published Sept. 11, 1928.
Loud speakers and parts thereof. Temple, Inc. 249,670; Nov. 20; Serial No. 268,735; published Sept. 4, 1928.
Microphonic attachment for radio receiving sets. Ventril-O-Fone Company. 249,837; Nov. 20; Serial No. 267,166; published Sept. 11, 1928.
Ozone machines, Electric. Corozone Company. 249,793; Nov. 20; Serial No. 269,638; published Sept. 11, 1928.
Radio accessories. Per-Con Manufacturing Company. 249,826; Nov. 20; Serial No. 266,879; published Sept. 4, 1928.
Radio electron tubes. Universal Electric Lamp Co. 249,675; Nov. 20; Serial No. 268,655; published Sept. 4, 1928.
Radio electron tubes. Universal Electric Lamp Co. 249,676; Nov. 20; Serial No. 268,655; published Sept. 4, 1928.
Radio hook-up wire. Acme Wire Company. 249,885; Nov. 20; Serial No. 268,333; published Sept. 4, 1928.
Radio loud speakers. Air-Chrome Studios, Inc., The. 249,858; Nov. 20; Serial No. 267,625; published Sept. 4, 1928.
Radiopanels. J. A. Bartkus. 249,839; Nov. 20; Serial No. 267,335; published Sept. 4, 1928.
Radio receiving sets and parts, etc. Twin Coupler Company, Inc. 249,619; Nov. 20; Serial No. 256,591; published Sept. 4, 1928.
Telephone systems, Automatic. Automatic Electric Inc. 249,721; Nov. 20; Serial No. 264,746; published Sept. 11, 1928.

CLASS 22.

Fishing lines. Shakespeare Company. 249,849; Nov. 20; Serial No. 267,728; published Sept. 4, 1928.
Seesaw amusement device. M. D. Shakesbaft. 249,553; Nov. 20; Serial No. 261,077; published Sept. 4, 1928.

CLASS 23.

Excavating, elevating, and conveying machines. Jeffrey Manufacturing Company. 249,624; Nov. 20; Serial No. 270,248; published Sept. 11, 1928.
Files and rasps. Nicholson File Company. 249,815; Nov. 20; Serial No. 266,215; published Sept. 11, 1928.
Logging and loading tongs. Hickok & Hickok. 249,790; Nov. 20; Serial No. 269,657; published Sept. 11, 1928.
Plows and their parts. Syracuse Chilled Plow Co. 32,098; renewed Oct. 25, 1928.
Rolling-mill rolls. Mesta Machine Company. 249,708–9; Nov. 20; Serial Nos. 264,248–9; published Sept. 4, 1928.
Sewing machines and parts thereof. Nahmaschien-Teile Aktien-Gesellschaft. 249,746; Nov. 20; Serial No. 269,248; published Sept. 11, 1928.

CLASS 24.

Electric ironing machines. Sears, Roebuck and Co. 249,749; Nov. 20; Serial No. 269,323; published Sept. 11, 1928.

CLASS 26.

Motion pictures. Fox Case Corporation. 249,701–2; Nov. 20; Serial Nos. 270,325–6; published Sept. 11, 1928.
Ophthalmic mountings. M. Kaplan. 249,745; Nov. 20; Serial No. 269,241; published Sept. 11, 1928.
Patterns for women's wearing apparel. H. H. Smith. 249,668; Nov. 20; Serial No. 268,821; published Sept. 11, 1928.
Potentiometers for measuring electrical potentials, etc. Brown Instrument Company. 249,730; Nov. 20; Serial No. 263,374; published Sept. 11, 1928.
Thermostats. Robertshaw Thermostat Company. 249,921; Nov. 20.

CLASS 27.

Watch materials. Swiss Hairspring Service, Inc. 249,770; Nov. 20; Serial No. 269,615; published Sept. 11, 1928.
Watches. Emil Bornstein Inc. 249,582; Nov. 20; Serial No. 269,014; published Sept. 4, 1928.
Watches and clocks. A. C. Becken Company. 249,918; Nov. 20.

CLASS 28.

Bracelets. Rosenheim Co. 249,748; Nov. 20; Serial No. 269,318; published Sept. 4, 1928.
Bracelets and watch bands. Wadsworth Watch Case Company. 249,554; Nov. 20; Serial No. 265,129; published Sept. 11, 1928.
Bracelets and watch bands. Wadsworth Watch Case Company. 249,816; Nov. 20; Serial No. 266,285; published Sept. 11, 1928.
Fraternity badges, lapel buttons, etc. Theta Tau Fraternity. 249,585; Nov. 20; Serial No. 269,042; published Sept. 4, 1928.
Jewelry. F. & F. Felger, Inc. 249,652; Nov. 20; Serial No. 259,303; published Apr. 3, 1928.
Jewelry, not including watches. W. & P. Jewelry Co. Inc. 249,795; Nov. 20; Serial No. 269,618; published Sept. 11, 1928.
Jewelry, not including watches. Prutinsky & Woolf. 249,797; Nov. 20; Serial No. 269,603; published Sept. 11, 1928.
Rings. J. R. Wood & Sons. 249,654; Nov. 20; Serial No. 258,707; published Sept. 4, 1928.
Rings, bracelets, etc. S. Schnelling. 249,819; Nov. 20; Serial No. 260,485; published Sept. 4, 1928.
Rings, pins, etc. S. M. & H. Company. 249,569; Nov. 20; Serial No. 265,296; published Sept. 4, 1928.
Silver hollow ware. Bernard Rice's Sons, Inc. 249,868; Nov. 20; Serial No. 268,883; published Sept. 4, 1928.

CLASS 29.

Toothbrushes. Owens Staple-Tied Brush Company. 249,614; Nov. 20; Serial No. 246,497; published Sept. 4, 1928.

CLASS 30.

Dinner ware. Sears, Roebuck and Co. 249,822; Nov. 20; Serial No. 266,627; published Sept. 11, 1928.

CLASS 31.

Refrigeration apparatus. Wayne Company. 249,597; Nov. 20; Serial No. 267,879; published Sept. 4, 1928.
Refrigerators, Electric. Mild Engineering Company. 249,728; Nov. 20; Serial No. 263,412; published May 29, 1928.

CLASS 32.

Desks. Jewel Safe Desk Corporation. 249,699; Nov. 20; Serial No. 270,337; published Sept. 11, 1928.
Mattresses and beds. M. E. Lichter. 249,565; Nov. 20; Serial No. 265,389; published Sept. 11, 1928.
Mattresses, cushions, etc. Wm. H. McMahen Company. 249,621; Nov. 20; Serial No. 255,812; published Sept. 11, 1928.
Racks, Tie, shoe, and hosiery display. B. Larson. 249,911; Nov. 20.

CLASS 33.

Globes and reflectors, Glass. Duplexalite Division of the Miller Company. 249,548; Nov. 20; Serial No. 261,741; published Sept. 11, 1928.
Ultra-violet-ray transmitting glass. Ultraviolet Glass Corporation. 249,635; Nov. 20; Serial No. 270,100; published Sept. 11, 1928.

CLASS 35.

Brake lining. Bendix Brake Company. 249,910; Nov. 20.
Hose, Hydraulic. Eureka Fire Hose Company. 32,058–62; renewed Oct. 18, 1928.
Pads for pneumatic tires, fan belts, tube and casing patches, Valve. Western States Mfg. Co. 249,765; Nov. 20; Serial No. 269,559; published Sept. 11, 1928.



Repair parts for air-brake equipment—namely, piston rings and gaskets. Brake Equipment and Supply Company. 249,627; Nov. 20; Serial No. 270,233; published Sept. 11, 1928.
Sheet-rubber tire-patching material, etc. Western States Mfg. Co. 249,764; Nov. 20; Serial No. 269,558; published Sept. 11, 1928.
Steel ribbon for piston rings. W. H. Thomson. 249,667; Nov. 20; Serial No. 268,825; published Sept. 11, 1928.
Tires, Pneumatic. India Tire & Rubber Company. 249,655; Nov. 20; Serial No. 258,335; published Sept. 11, 1928.
Tubes for tires, Inner. United States Rubber Company. 249,776; Nov. 20; Serial No. 270,267; published Sept. 11, 1928.

CLASS 36.

Phonographs, phonograph records, phonograph needles, etc. James K. Polk, Incorporated. 249,547; Nov. 20; Serial No. 262,327; published Sept. 11, 1928.
Phonographs, records, etc. Plaza Music Company. 249,710; Nov. 20; Serial No. 263,889; published Sept. 4, 1928.
Pianos, piano players, player pianos, etc. Lyric Piano Company. 249,613; Nov. 20; Serial No. 246,692; published June 5, 1928.
Pianos, player pianos, and phonographs. Chipman & Company. 249,728; Nov. 20; Serial No. 264,419; published Sept. 4, 1928.

CLASS 37.

Binders, Loose-leaf, etc. National Bank Supply Co., The. 249,767; Nov. 20; Serial No. 269,596; published Sept. 4, 1928.
Pads, Bridge score, etc. Charles S. Clark Co. 249,841; Nov. 20; Serial No. 267,351; published Sept. 4, 1928.
Paper, Bond. Chapin & Gould Paper Company. 249,717; Nov. 20; Serial No. 264,968; published Sept. 4, 1928.
Paper, Book. Betram Blake Paper Co. Inc. 249,780; Nov. 20; Serial No. 269,710; published Sept. 4, 1928.
Paper, Plain, coated, or decorated. C. R. Whiting Co. Inc. 249,735; Nov. 20; Serial No. 262,585; published May 29, 1928.
Paper, Toilet. Zanesville Paper Co. 249,812; Nov. 20; Serial No. 269,814; published Sept. 4, 1928.
Paper, towels, and napkins, Toilet. White-Washburne Company, Inc. 249,780–1; Nov. 20; Serial Nos. 269,752–3; published Sept. 4, 1928.
Paper, translucent paper, coated book paper, box paper, etc. A. M. Collins Manufacturing Company. 249,881; Nov. 20; Serial No. 268,425; published Sept. 11, 1928.
Paper, Wall. Becker, Smith & Page, Incorporated. 249,742; Nov. 20; Serial No. 269,178; published Sept. 4, 1928.
Paper, Wrapping. Fred Rentz Paper Company. 249,791; Nov. 20; Serial No. 269,651; published Sept. 4, 1928.
Papers, Gummed. Mid-States Gummed Paper Co. 249,922; Nov. 20.
Sharpeners, Pencil. T. P. Mobius. 249,707; Nov. 20; Serial No. 264,251; published Sept. 11, 1928.

CLASS 38.

Books, Aviation. G. Elliott. 249,660; Nov. 20; Serial No. 257,406; published Sept. 4, 1928.
Certificates, Redeemable trading. S & W Thrift Corporation. 249,616; Nov. 20; Serial No. 245,228; published Sept. 4, 1928.
Charters, Illuminated mottoes, etchings, etc. Chi Omega Fraternity, The. 249,636; Nov. 20; Serial No. 258,067; published Sept. 4, 1928.
Fashion periodical. F. D. Rich. 249,867; Nov. 20; Serial No. 268,884; published Sept. 4, 1928.
Heading for newspaper articles. F. C. Russell. 249,798; Nov. 20; Serial No. 269,796; published Sept. 4, 1928.
Labels, tags, etc. L. A. Miller Label Co. 249,855; Nov. 20; Serial No. 266,143; published Sept. 4, 1928.
Magazine. J. B. De Beltrand. 249,639; Nov. 20; Serial No. 270,071; published Sept. 11, 1928.
Magazine, Monthly. Field and Stream Publishing Company. 249,863; Nov. 20; Serial No. 268,979; published Sept. 4, 1928.
Magazine, Weekly. F. Pinkham. 249,892; Nov. 20; Serial No. 268,248; published Sept. 4, 1928.
Magazines. MacIntyre & Simpson. 249,787; Nov. 20; Serial No. 269,673; published Sept. 4, 1928.
Newspaper and magazine articles, a magazine section published periodically. Curtis-Martin Newspapers, Inc. 249,904; Nov. 20.
Periodical. H. Settel. 249,587; Nov. 20; Serial No. 269,094; published Sept. 4, 1928.
Periodical. Simmons-Boardman Publishing Co. 249,761; Nov. 20; Serial No. 269,487; published Sept. 4, 1928.
Periodical, Bank. Brown & Bigelow. 249,803; Nov. 20; Serial No. 270,112; published Sept. 4, 1928.
Periodical, Laundry. Brown & Bigelow. 249,633; Nov. 20; Serial No. 270,109; published Sept. 4, 1928.
Periodical, Musical. Oxford University Press, American Branch. 249,636; Nov. 20; Serial No. 270,092; published Sept. 4, 1928.
Periodical, Real-estate. Brown & Bigelow. 249,632; Nov. 20; Serial No. 270,111; published Sept. 4, 1928.
Periodicals. H. Steinberg. 249,580; Nov. 20; Serial No. 250,762; published Aug. 23, 1927.
Periodicals. C. K. Van Riper. 249,640; Nov. 20; Serial No. 270,068; published Sept. 4, 1928.
Publication, Annual. Irving-Cloud Publishing Co. 249,859; Nov. 20; Serial No. 267,657; published Sept. 4, 1928.
Publication, Section of a monthly. National Trade Journals, Inc. 249,875; Nov. 20; Serial No. 268,507; published Sept. 4, 1928.
Publications, Serial. Harry J. Bosworth Company. 249,704; Nov. 20; Serial No. 269,630; published Sept. 4, 1928.
Textbooks, Series of. Looseleaf Education, Inc. 249,845; Nov. 20; Serial No. 267,498; published Sept. 4, 1928.

CLASS 39.

Aprons and house dresses. Sterling Company. 249,740; Nov. 20; Serial No. 269,160; published Sept. 4, 1928.
Belts, pajamas, shirts, etc. J. Jacoby Company. 249,820; Nov. 20; Serial No. 266,592; published Sept. 4, 1928.
Bloomers, panties, step-ins, etc. J. Brener Co. 249,850; Nov. 20; Serial No. 267,744; published Sept. 4, 1928.
Boots and shoes. Thomas G. Plant Co. 32,341; renewed Jan. 10, 1929.
Boots and shoes. Selby Shoe Co. 249,568; Nov. 20; Serial No. 265,299; published Aug. 28, 1928.
Boots and shoes. Simplex Shoe Manufacturing Company. 249,711; Nov. 20; Serial No. 264,207; published Aug. 28, 1928.
Boots and shoes, Leather. Montgomery Ward & Co. 249,672; Nov. 20; Serial No. 268,743; published Aug. 28, 1928.
Boots, shoes, and overshoes and rubber-soled canvas shoes, Rubber. Hood Rubber Company. 249,729; Nov. 20; Serial No. 263,401; published Sept. 11, 1928.
Caps. H. Davis. 249,705; Nov. 20; Serial No. 264,364; published Aug. 28, 1928.
Caps. Federal Knitting Mills Company. 249,889; Nov. 20; Serial No. 268,274; published Sept. 11, 1928.
Caps, shirts, neckties, etc. H. A. Hyman. 249,843; Nov. 20; Serial No. 267,421; published Aug. 28, 1928.
Clothing. McCreery Manufacturing Co. 249,555; Nov. 20; Serial No. 265,050; published Sept. 4, 1928.
Clothing. Pendleton Woolen Mills. 249,602; Nov. 20; Serial No. 267,793; published Sept. 4, 1928.
Clothing and haberdashery, Men's. G. W. Gomersall. 249,731; Nov. 20; Serial No. 263,314; published Sept. 11, 1928.
Clothing, Boys' and men's outer. A. C. Selig. 249,601; Nov. 20; Serial No. 267,806; published Sept. 4, 1928.
Clothing, Working. Larned, Carter & Company. 249,818; Nov. 20; Serial No. 266,382; published Sept. 4, 1928.
Coats and dresses. Rosenbaum Company. 249,581; Nov. 20; Serial No. 269,038; published Sept. 4, 1928.
Coats, hats, dresses, etc. Little Sister Coats, Inc. 249,725; Nov. 20; Serial No. 263,876; published Sept. 11, 1928.
Coats, jumpers, jackets, etc. Kolliner-Newman Mfg. Co. 249,665; Nov. 20; Serial No. 268,871; published Sept. 4, 1928.
Combinations, garments consisting of underwaist and drawers. E. H. Horwood & Co. 249,575; Nov. 20; Serial No. 252,775; published Sept. 4, 1928.
Dresses. Brown-Dunkin Dry Goods Company. 249,712; Nov. 20; Serial No. 264,140; published Sept. 4, 1928.
Dresses. Conrad & Co. Inc. 249,877; Nov. 20; Serial No. 268,487; published Sept. 4, 1928.
Dresses. Joe-Ann Togs, Incorporated. 249,550; Nov. 20; Serial No. 261,635; published Sept. 4, 1928.
Dresses. Trippe, Barker & Co. 249,890; Nov. 20; Serial No. 268,256; published Sept. 4, 1928.
Dresses and aprons. Burnham-Munger-Root Dry Goods Company. 249,917; Nov. 20.
Dresses and aprons. Walton N. Moore Dry Goods Co. Inc. 249,856; Nov. 20; Serial No. 266,145; published Sept. 4, 1928.
Dresses, hats, and coats, Children's. Brown-Dunkin Dry Goods Company, 249,713; Nov. 20; Serial No. 264,139; published Aug. 28, 1928.
Frocks and dresses, Ladies' and girls'. Sally Frocks, Inc. 249,611; Nov. 20; Serial No. 248,932; published Sept. 11, 1928.
Gloves. Heilig & Florea, Inc. 249,862; Nov. 20; Serial No. 268,980; published Sept. 4, 1928.
Gloves, hosiery, hats, shoes, etc. I. Miller & Sons, Inc. 249,618; Nov. 20; Serial No. 256,736; published Sept. 11, 1928.
Gloves, pajamas, hats, etc. L. J. & C. D. Jaffee Inc. 249,604; Nov. 20; Serial No. 267,770; published Sept. 11, 1928.
Gloves, pajamas, hosiery, etc. L. J. & C. D. Jaffee Inc. 249,605; Nov. 20; Serial No. 267,769; published Sept. 11, 1928.
Gloves, pajamas, jackets, etc. L. J. & C. D. Jaffee Inc. 249,606–7; Nov. 20; Serial Nos. 267,767–8; published Aug. 28, 1928.
Gloves, pajamas, lumber jackets, etc. L. J. & C. D. Jaffee Inc. 249,603; Nov. 20; Serial No. 267,771; published Aug. 28, 1928.
Gloves, pajamas, lumber jackets, etc. L. J. & C. D. Jaffee Inc. 249,851; Nov. 20; Serial No. 267,766; published Aug. 28, 1928.
Hats. Bronston Bros. and Co. 249,680; Nov. 20; Serial No. 268,578; published Aug. 28, 1928.
Hats. Consumers Hat Factory, Inc. 249,556; Nov. 20; Serial No. 265,035; published Sept. 4, 1928.
Hats. Ogus, Rabinovich & Ogus, Inc. 249,566–7; Nov. 20; Serial Nos. 265,341–2; published Sept. 11, 1928.

Hats. Ogus, Rabinovich & Ogus, Inc. 249,718–20; Nov. 20; Serial Nos. 264,836–8; published Sept. 11, 1928.
Hats and caps. Reichel Bros. 249,609; Nov. 20; Serial No. 226,824; published Sept. 4, 1928.
Hats and caps, Men's. Hutt & Wasserman, Inc. 249,789; Nov. 20; Serial No. 269,662; published Sept. 11, 1928.
Hats and hoods for ladies' hats, Ladies'. F. A. Lacks. 249,876; Nov. 20; Serial No. 268,501; published Aug. 28, 1928.
Hats for men. Crofut & Knapp Co. 249,842; Nov. 20; Serial No. 267,408; published Aug. 28, 1928.
Hats, Ladies' and misses'. Catalina Hats, Inc. 249,579; Nov. 20; Serial No. 251,298; published Sept. 11, 1928.
Hats, Women's, misses', and children's. J. & M. Cohn. 249,633; Nov. 20; Serial No. 268,531; published Aug. 28, 1928.
Headgear, Ladies'. M. Layton. 249,824; Nov. 20; Serial No. 266,671; published Sept. 11, 1928.
Hose. Conrad & Co. Inc. 249,878; Nov. 20; Serial No. 268,486; published Sept. 4, 1928.
Hosiery. Adolf & Norbert Kramer. 249,734; Nov. 20; Serial No. 262,914; published Sept. 4, 1928.
Hosiery. Bear Brand Hosiery Co. 249,741; Nov. 20; Serial No. 269,177; published Sept. 4, 1928.
Hosiery. Finch, Van Slyck & McConville. 249,747; Nov. 20; Serial No. 269,284; published Sept. 4, 1928.
Hosiery. I. Michelsohn & Son. 249,846; Nov. 20; Serial No. 267,500; published Aug. 28, 1928.
Hosiery. F. Sachsenmaier. 249,750; Nov. 20; Serial No. 269,319; published Sept. 4, 1928.
Hosiery. Shoaf-Sink Hosiery Mill Company. 249,753; Nov. 20; Serial No. 269,326; published Sept. 4, 1928.
Hosiery. Ladies' National Department Stores Inc. 249,574; Nov. 20; Serial No. 269,137; published Sept. 4, 1928.
Leggings, R. Rauh & Company. 249,744; Nov. 20; Serial No. 269,206; published Sept. 11, 1928.
Leggings and overgaiters. Phoenix Overgaiter Co. Inc. 249,612; Nov. 20; Serial No. 247,568; published Aug. 28, 1928.
Mufflers, hosiery, etc., Silk, wool, or cotton. Men's Wear Service Corporation. 249,622; Nov. 20; Serial No. 255,420; published Aug. 28, 1928.
Neckties. Globe Clothiers. 249,578; Nov. 20; Serial No. 251,498; published Sept. 4, 1928.
Overall jumpers. Chrysler Sales Corporation. 249,576; Nov. 20; Serial No. 252,314; published Sept. 4, 1928.
Overalls, work coats, jackets, and pants. Oshkosh Overall Co. 249,869; Nov. 20; Serial No. 268,881; published Sept. 4, 1928.
Overcoats, Boys'. S. Grossman & Co. 249,572; Nov. 20; Serial No. 269,115; published Sept. 4, 1928.
Pajamas, chemises, bloomers, etc. Dina Lee Lingerie Company. 249,915; Nov. 20.
Pajamas, dress shirts, and underwear. L. J. Alexander. 249,559; Nov. 20; Serial No. 265,606; published Sept. 4, 1928.
Pants, vests, and overalls. Bray Clothing Company. 31,485; renewed Apr. 26, 1928.
Raincoats. Sherman Bros. 249,857; Nov. 20; Serial No. 266,151; published Sept. 4, 1928.
Shirts. Spalde Shirt Company. 249,882; Nov. 20; Serial No. 268,400; published Sept. 4, 1928.
Shirts, Outer. Chas. Alshuler Mfg. Co. 249,666; Nov. 20; Serial No. 268,834; published Sept. 4, 1928.
Shirts, overalls, work coats and shirts, Laundered colored. C. B. Cones & Son Manufacturing Company. 249,557; Nov. 20; Serial No. 265,830; published Aug. 21, 1928.
Shirts, work pants, and overalls, Work. Mount Airy Overall Co. 249,599; Nov. 20; Serial No. 267,851; published Sept. 4, 1928.
Shoe counters. George W. Baker Shoe Co. 249,681; Nov. 20; Serial No. 268,372; published Aug. 28, 1928.
Shoes. Nath'l Fisher & Co. 249,756; Nov. 20; Serial No. 269,401; published Sept. 11, 1928.
Shoes. Given Bros. Shoe Co. 249,825; Nov. 20; Serial No. 266,729; published Aug. 28, 1928.
Shoes. R. H. Macy & Co. 249,558; Nov. 20; Serial No. 265,732; published Aug. 28, 1928.
Shoes. R. H. Macy & Co., Inc. 249,838; Nov. 20; Serial No. 267,265; published Sept. 4, 1928.
Shoes. Milford Shoe Company. 249,722; Nov. 20; Serial No. 264,596; published Sept. 4, 1928.
Shoes. L. H. Stone. 249,844; Nov. 20; Serial No. 267,468; published Sept. 4, 1928.
Shoes, Leather. Durand Shoe Co. 249,792; Nov. 20; Serial No. 269,644; published Sept. 11, 1928.
Shoes, Leather. Endicott Johnson Corporation. 249,832; Nov. 20; Serial No. 268,217; published Sept. 4, 1928.
Soles and heels and rubber footwear, Rubber. Endicott Johnson Corporation. 249,757; Nov. 20; Serial No. 269,451; published Sept. 11, 1928.
Suits, overcoats, and pants for men and boys. S. Brown. 249,901; Nov. 20.
Suits, overcoats, and topcoats. S. Makransky & Sons. 249,880; Nov. 20; Serial No. 268,455; published Sept. 4, 1928.
Sweaters. C. Seidman. 249,836; Nov. 20; Serial No. 267,147; published Sept. 4, 1928.
Trousers, suits, knickers, breeches. Day's Tailor-D Wear, Inc. 249,724; Nov. 20; Serial No. 264,507; published Sept. 4, 1928.
Undergarments, Women's and children's. H. L. Hirschberg. 249,590; Nov. 20; Serial No. 268,038; published Sept. 4, 1928.
Underwear and hosiery for ladies, misses, and children. Royal Beauty Silk Hosiery Co. 249,671; Nov. 20; Serial No. 268,751; published Aug. 21, 1928.
Underwear for women and men, Knitted and textile. Vanity Fair Silk Mills. 249,588; Nov. 20; Serial No. 268,124; published Aug. 28, 1928.
Underwear, stockings, socks, hats, etc. Dworetsky & Anenberg. 249,852; Nov. 20; Serial No. 265,894; published Sept. 4, 1928.

CLASS 41.

Canes, parasols, and umbrellas. I. Miller & Sons, Inc. 249,658; Nov. 20; Serial No. 257,689; published Aug. 21, 1928.
Canes, parasols, and umbrellas. Tiffany & Company. 249,834; Nov. 20; Serial No. 267,151; published Sept. 4, 1928.

CLASS 42.

Cloth, Shade. Interstate Shade Cloth Co. 249,898; Nov. 20.
Cloths, bath mats, bedspreads, etc., Face. A. S. Herrmann, Inc. 249,620; Nov. 20; Serial No. 255,914; published Sept. 11, 1928.
Cotton piece goods. Robinson & Golluber. 249,727; Nov. 20; Serial No. 263,726; published Sept. 11, 1928.
Fabric, Cotton cloth. Heilig & Florea, Inc. 249,861; Nov. 20; Serial No. 268,981; published Sept. 11, 1928.
Fabric, Raised-pile woolen. Cobb & Jenkins. 249,853; Nov. 20; Serial No. 266,021; published Sept. 11, 1928.
Fabrics in the piece. Celanese Corporation of America. 249,673; Nov. 20; Serial No. 268,677; published Sept. 11, 1928.
Fabrics in the piece of silk, etc. Frank & Cohen Silk Corp. 249,893; Nov. 20; Serial No. 267,042; published Sept. 18, 1928.
Goods of rayon, silk, and satin, Piece. Robinson & Golluber. 249,796; Nov. 20; Serial No. 269,606; published Sept. 11, 1928.
Hair nets. New York Merchandise Co. 249,643; Nov. 20; Serial No. 270,554; published Sept. 11, 1928.
Handkerchiefs. Spence-Bryson Inc. 249,752; Nov. 20; Serial No. 269,158; published Sept. 11, 1928.
Overcoating fabrics. Broad Brook Co. 249,736; Nov. 20; Serial No. 262,507; published Sept. 11, 1928.
Ribbons. Century Ribbon Mills, Inc. (Ernest & Herman Levy). 249,766; Nov. 20; Serial No. 269,577; published Sept. 11, 1928.

CLASS 43.

Thread and yarn. Brucks and Peyser. 249,768; Nov. 20; Serial No. 270,738; published Sept. 11, 1928.
Thread and yarn. Chickasaw Thread Company. 249,785; Nov. 20; Serial No. 269,716; published Sept. 11, 1928.

CLASS 45.

Beverage sold as soft drink, syrups, etc. Los Angeles Brewing Co. 249,593; Nov. 20; Serial No. 267,973; published Sept. 11, 1928.
Beverages. Coney Island Soda Water Co., Inc. 249,864; Nov. 20; Serial No. 268,968; published Sept. 4, 1928.
Beverages sold as soft drinks, juices, etc. J. G. Metke. 249,801; Nov. 20; Serial No. 270,135; published Sept. 11, 1928.
Compound for making beverages. Nannt, Inc. 249,847; Nov. 20; Serial No. 267,502; published Sept. 11, 1928.
Orange drink. A. Nanfro. 249,906; Nov. 20.
Water, Spring. E. Wester. 249,738; Nov. 20; Serial No. 242,402; published Sept. 11, 1928.
Waters, Mineral, carbonated, etc. J. W. Langdon. 249,653; Nov. 20; Serial No. 258,751; published Sept. 11, 1928.

CLASS 46.

Apples, Fresh. Wenatchee Okanogan Co-Operative Federation. 249,912; Nov. 20.
Cake. Ward Baking Company. 249,813–14; Nov. 20; Serial Nos. 267,730–1; published Sept. 11, 1928.
Candy. D. Flantzman. 249,916; Nov. 20.
Candy. Robt. F. Mackenzie Co. 249,659; Nov. 20; Serial No. 257,426; published Sept. 11, 1928.
Candy. Reichardt Cocoa & Chocolate Co. 249,564; Nov. 20; Serial No. 265,405; published Sept. 11, 1928.
Canned fruits, vegetables, and fish, breakfast cereals. Willamette Grocery Co. 249,908; Nov. 20.
Canned grapefruit. Florida Grapefruit Canning Co. 249,900; Nov. 20.
Canned shrimp, canned vegetables, etc. S. S. Goffin. 249,884; Nov. 20; Serial No. 268,367; published Sept. 11, 1928.
Chocolate and sweetmeats. Radiance Limited. 249,706; Nov. 20; Serial No. 264,260; published Sept. 11, 1928.
Coffee. Keystone Grocery & Tea Co. 249,610; Nov. 20; Serial No. 223,848; published Apr. 26, 1927.
Eggs. C. G. Burger. 249,896; Nov. 20.
Fat, Frying. Swift and Company. 249,695; Nov. 20; Serial No. 270,358; published Sept. 11, 1928.
Feed for dairy stock. St. Albans Grain Company. 249,733; Nov. 20; Serial No. 263,174; published July 17, 1928.
Fish, Fresh. O'Donnell Company. 249,778; Nov. 20; Serial No. 270,258; published Sept. 11, 1928.



Flour, corn meal, etc., Wheat. Ardmore Flour & Feed Co. 249,866; Nov. 20; Serial No. 268,902; published Sept. 4, 1928.
Food, Fresh, frozen, smoked, salted, fillet, canned, and preserved sea. Baker, Boies & Watson Company. 249,907; Nov. 20.
Fruit, Fresh. Earl Fruit Company. 249,743; Nov. 20; Serial No. 269,227; published Sept. 11, 1928.
Fruits, Fresh deciduous. Wood Fruit Company. 249,808–9; Nov. 20; Serial Nos. 269,878–9; published Sept. 11, 1928.
Fruits, Fresh deciduous, dried, etc. J. E. Blickenstaff & Sons. 249,596; Nov. 20; Serial No. 267,925; published Sept. 11, 1928.
Grapes, Fresh. Coachella Valley Grape Growers Assn. 249,570; Nov. 20; Serial No. 265,197; published Sept. 11, 1928.
Grapes, Fresh. Manteca Canning Company. 249,854; Nov. 20; Serial No. 266,138; published Sept. 11, 1928.
Gum, Chewing. Ginger Mint Julep Company. 249,888; Nov. 20; Serial No. 268,279; published Sept. 11, 1928.
Gum whistles, Chewing. J. W. Glenn. 249,546; Nov. 20; Serial No. 262,356; published Sept. 11, 1928.
Meats, fresh meats, etc., Smoked. Rapid City Packing Company. 249,873; Nov. 20; Serial No. 259,924; published Sept. 11, 1928.
Mustard, Prepared. R. T. French Company. 249,903; Nov. 20.
Oranges, lemons, and grapefruit. Rialto Orange Co. 249,769; Nov. 20; Serial No. 270,719; published Sept. 11, 1928.
Potatoes. New Sweden Potato Growers. 249,549; Nov. 20; Serial No. 261,642; published Sept. 11, 1928.
Salmon, Canned. Oceanic Sales Company. 249,771; Nov. 20; Serial No. 270,646; published Sept. 11, 1928.
Sausage, Dried. Otto Roth & Co., Inc. 249,662–3; Nov. 20; Serial Nos. 257,188–9; published Sept. 11, 1928.
Sausage, Dried. Otto Roth & Company Inc. 249,664; Nov. 20; Serial No. 257,186; published Sept. 11, 1928.
Syrup, Maple-sap. Vermont Maple Syrup Co. Inc. 249,895; Nov. 20.
Vegetables, Canned. Oconomowoc Canning Co. 249,772; Nov. 20; Serial No. 270,603; published Sept. 11, 1928.

# ALPHABETICAL LIST OF LABELS.

Blue Flag. For Fresh Prunes. Earl Fruit Company. 34,954; Nov. 20.
Brite Brass' Linoleum Seam Binding & Edging. For Linoleum Seam Binding and Edging. W. S. Kinkead. 34,973; Nov. 20.
Chef. For Loganberries. J. S. Brown Mercantile Company. 34,949; Nov. 20.
Dawn. For Cleanser for Enamel Porcelain and General Household Cleaning. Drackett Chemical Company. 34,953; Nov. 20.
Del Maiz. For Corn. Minnesota Valley Canning Company. 34,977; Nov. 20.
Fevola Presto Crystal Cleaner. For Cleaner for Anything Made from Glass or Anything with an Enameled Surface. Colombo Manufacturing Co. 34,952; Nov. 20.
Forest Park Toilet Tissue. For Toilet Paper. Graham Paper Company. 34,963; Nov. 20.
Frute-Wip. For Desserts or Dessert Preparations and Foods. California Frute-Wip Company. 34,950; Nov. 20.
G. F. Wright Steel & Wire Co. For Poultry-Netting Rolls. G. F. Wright Steel & Wire Company. 34,987; Nov. 20.
Gold Bath. For Liquid Sulphur. E. Greusard. 34,964; Nov. 20.
Golden Age Jel. For Gelatin Dessert. B. S. Scotland. 34,980; Nov. 20.
Green Babies. For Canned Peas. Chippewa Canning Co. 34,951; Nov. 20.
Green Giant. For Peas. Minnesota Valley Canning Company. 34,976; Nov. 20.
Heller's Fancy-Pastry Dessert Powder. For Preparation in Powder Form for Making Desserts. B. Heller & Company. 34,968; Nov. 20.
Heller's Jell-Jell. For Gelatine Dessert in Powder Form. B. Heller & Company. 34,969; Nov. 20.
Jean Water Wave and Sports Net. For Water-Wave and Sports Nets. S. Glemby's Sons Co., Inc. 34,955; Nov. 20.
Jean Water Wave Net with Chin Elastic. For Water-Wave Nets. S. Glemby's Sons Co. 34,960; Nov. 20.
Jewel Best Coffee. For Coffee. Jewel Tea Co. 34,972; Nov. 20.
Kressent Water Wave and Sports Net. For Water-Wave and Sports Nets. S. Glemby's Sons Co. 34,956; Nov. 20.
Kressent Water Wave Net with Chin Elastic. For Water-Wave Nets. S. Glemby's Sons Co. 34,962; Nov. 20.
Lorraine Water Wave and Sports Net. For Water-Wave and Sports Nets. S. Glemby's Sons Co. 34,958; Nov. 20.
Lorraine Water Wave Net with Chin Elastic. For Water-Wave Nets. S. Glemby's Sons Co. 34,961; Nov. 20.
Neighborhood. For Coffee. Neighborhood Stores, Inc. 34,978; Nov. 20.
$1000.00 Guaranteed Enamel Cleaner. For Enamel Cleaner in Powder Form. B. Heller & Company. 34,965; Nov. 20.
$1000.00 Guaranteed Ozo Bowl Cleaner. For Bowl Cleaner in Powder Form. B. Heller & Company. 34,966; Nov. 20.
$1000.00 Guaranteed Rat and Mouse Killer. For Rat and Mouse Killer in Paste Form. B. Heller & Company. 34,967; Nov. 20.
$1000.00 Guaranteed Rat and Mouse Killer. For Rat and Mouse Killer in Paste Form. B. Heller & Company. 34,970; Nov. 20.
Penarth Linen. For Stationery and Envelopes. White & Wyckoff Mfg. Co. 34,986; Nov. 20.
Polar B'ar. For Bodies of Ice Cream Having a Coating of Edible Substance. Southern Dairies, Inc. 34,981; Nov. 20.
Regina Water Wave and Sports Net. For Water-Wave and Sports Nets. S. Glemby's Sons Co. 34,957; Nov. 20.
Regina Water Wave Net with Chin Elastic. For Water-Wave Nets. S. Glemby's Sons Co. 34,959; Nov. 20.
Southern Pecan Delight, A Food Candy. For a Bar of Pecan-Covered Candy. E. Lorthioir. 34,975; Nov. 20.
Van's Brand. For Okra. Van's Sun Dried Okra Co. 34,982; Nov. 20.
Valve, For Milady's Beauty Bath. For Bath Preparation. J. S. Kitzen. 34,974; Nov. 20.
Watch Your Wate Gnard Your Health. For Weighing Scales. J. B. Watling. 34,984; Nov. 20.
Whole Wheat Vegetised Wafers. For a Wafer. Vegetable Products Corporation. 34,983; Nov. 20.
Worlds Best Soup Hungarian Gulash. For Canned Soup. James Ifyu, Sons & Company. 34,971; Nov. 20.
Your Fortune and Weight. For Weighing Scales. T. W. B. Watling. 34,985; Nov. 20.
Zonox. For Dentrifice. Mouth Wash, and Gargle. Pan-American Chemical Co. 34,979; Nov. 20.

# ALPHABETICAL LIST OF PRINTS.

Beech-Nut Black Cough Drops. For Cough Drops. Beech-Nut Packing Company. 11,335; Nov. 20.
Comodora Para Toda Mujer. For Sanitary Napkins. Veldown Company, Inc. 11,340; Nov. 20.
Expressing Charm in Interior Decorations. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. Standard Textile Products Company. 11,338; Nov. 20.
Swanfleece for Every Woman. For Sanitary Napkins. Veldown Company, Inc. 11,339; Nov. 20.
The Flavor Sticks. For Chewing Gum. Curtiss Candy Company. 11,336; Nov. 20.
The Man's Choice—M. J. B.—The Full-Flavored Coffee. For Coffee. M. J. B. Company. 11,337; Nov. 20.
Use Elizabeth Arden's Preparations. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,334; Nov. 20.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

A C Spark Plug Company. (See Dinsmore, Clarence B., assignor.)
A C Spark Plug Company. (See Keeney, Don E., assignor.)
Aachener Maschinenbau-Gesellschaft m. b. H. (See Nacken, Hermann, assignor.)
Abramson, Alexander, Prague, Czechoslovakia. Power-transmission mechanism. 1,692,531; Nov. 20.
Abromeit, Alfred, Rheinhausen, Germany. Horoscopic interpretation apparatus for hours and days. 1,692,105; Nov. 20.
Adam, Carl A., Hamburg, Germany. Producing printing plates specially for poster printing. 1,692,283; Nov. 20.
Adams, Walter L. (See Pflueger, C. T., and Adams.)
Aiken, Charles W., New York, N. Y. Soap-marking machine. 1,692,322; Nov. 20.
Akemann, Walther, Essen, Germany, assignor, by mesne assignments, to N. V. Hazemeyer's Signal-Apparaten, Hengelo, Netherlands. Training mechanism for guns. 1,692,364; Nov. 20.
Akers, Johnny G. C., Wallace, Nebr. Merry-go-round. 1,692,106; Nov. 20.
Alden, John W., Canton, Ohio, assignor to Central Alloy Steel Corporation, New York, N. Y. Wash or coating for ingot molds. 1,692,532; Nov. 20.
Alemite Manufacturing Corporation. (See Zerk, Oscar, assignor.)
Alfred, Theodore C., Lancaster, Ohio. Pulverizer. 1,691,951; Nov. 20.
Alland, Maurice, Atlantic City, N. J. Pencil and eraser therefor. 1,692,483; Nov. 20.
Allison, Kathryn L., Los Angeles, Calif. Combination vanity case. 1,692,194; Nov. 20.
Altemus, Jacob K., Philadelphia, Pa. Knot catcher and yarn cleaner. 1,692,399; Nov. 20.
Alter, Henry A., Yonkers, and M. Schwartzman, New York, N. Y. Fur-drying apparatus. 1,692,716; Nov. 20.
American Abrasive Metals Company. (See Edmondson, R. S., and Hahn, assignors.)
American Bemberg Corporation. (See Meyer-Gaus, Karl, assignor.)
American Can Company. (See Gray, James A., assignor.)
American Encaustic Tiling Company. (See Lillibridge, Harry D., assignor.)
American Engineering Company. (See Koons, Charles V., assignor.)
American Flyer Manufacturing Company. (See Becker, Harry S., assignor.)
American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)
American Instrument Company. (See Newell, Floyd B., assignor.)
American Luigi Corporation. (See Zagorski, Johann, assignor.)
American Radiator Company. (See Eggleston, Lewis W., assignor.)
American Radiator Company. (See Howell, Frank B., assignor.)
American Sales Book Company. (See Bottle, Edward K., assignor.)
American Telephone and Telegraph Company. (See Demarest, Charles S., assignor.)
American Telephone and Telephone Company. (See Nyquist, Harry, assignor.)
American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)
American Telephone and Telegraph Company. (See Stewart, George W., assignor.)
American Tool Works Company, The. (See Schellenbach, William L., assignor.)
Ames, Butler, Lowell, Mass. Lamp. 1,692,069; Nov. 20.
Anchor Cap and Closure Corporation. (See Scofield, Edgar, assignor.)
Anderson, Harley E., assignor to Gustin-Bacon Manufacturing Company, Kansas City, Mo. Fluid-pressure horn. 1,692,766; Nov. 20.
Anderson, Olof B., Marquette, Mich., assignor to E. J. Longyear Manufacturing Company. Hydraulic-feed rotary drill. 1,692,431; Nov. 20.
Anderson, Philip C., Lincoln, Nebr., assignor, by mesne assignments, to Western Wheeled Scraper Company, Aurora, Ill. Wheeled scraper. 1,692,018; Nov. 20.
Anderson, Sigurd, Leavenworth, Kans. Baseball game. 1,691,952; Nov. 20.
Andrew, Nicholas P., et al. (See Andrew, N. P., Macfie, and Rose, assignors.)
Andrew, Nicholas P., W. L. Macfie, and R. W. Rose, Finsbury, London, assignors to N. P. Andrew and G. E. Suter, copartners trading as Andrew & Suter, Finsbury, England. Machine for making cardboard and similar boxes. 1,692,534; Nov. 20.
Andrew & Suter. (See Andrew, N. P., Macfie, and Rose, assignors.)
Angier, Edward H. (See Wheildon, William M., assignor.)
Apt, Morris. (See Simsack, Anton S., assignor.)
Araujo, Abeilard S. R., Rio de Janeiro, Brazil. Fire grate. 1,692,323; Nov. 20.
Archaouloff, Vadime, Boulogne-sur-Seine, France. Direct-injection fuel atomizer for internal-combustion engines. 1,692,107; Nov. 20.
Armbruster, Charles E. H., Denver, Colo. Diagnostic instrument. 1,692,241; Nov. 20.
Armson, Albert J., Port Huron, Mich., assignor to The Armson Exhaust Heating Company, Cleveland, Ohio. Exhaust-treating apparatus for steam-power plants. 1,692,019; Nov. 20.
Armson, Albert J., Port Huron, Mich., assignor to The Armson Exhaust Heating Company, Cleveland, Ohio. Exhaust-treating apparatus for steam-power plants. 1,692,020; Nov. 20.
Armson Exhaust Heating Company, The. (See Armson, Albert J, assignor.)
Armstrong Cork Company. (See Wenrich, Calvin N., assignor.)
Arnold, Carl, Nuremberg, Germany. Spark toy. 1,692,146; Nov. 20.
Arnold, Carl, Nuremberg, Germany. Spark-producing toy with rack-operated driving mechanism and changing colors. 1,692,147; Nov. 20.
Arnold, Carl, Nuremberg, Germany. Spark toy. 1,692,148; Nov. 20.
Arnold, Edward W., North Abington, Mass. Welting. 1,692,533; Nov. 20.
Aronson, Louis V., Newark, N. J. Motor-actuated toy. 1,692,242; Nov. 20.
Art Lamp and Novelty Company, The. (See Foley, John J.)
Ash, Henry C., Duluth, Minn. Receptacle. 1,692,794; Nov. 20.
Athimon, Francis, Paris, France. Control means for clutches, brakes, and the like. 1,692,070; Nov. 20.
Atkinson, Herbert S., East Orange, N. J., assignor to The Hayward Company, New York, N. Y. Bucket. 1,692,195; Nov. 20.
Atmospheric Nitrogen Corporation. (See Greathouse, Lucien H., assignor.)
Atlas Powder Company. (See Shipley, Stanley D., assignor.)
Auble, James L., assignor of one-half to N. M. Auble and one-half to J. M. Seybold, Toledo, Ohio. Metal-reforming method and apparatus. 1,692,400; Nov. 20.
Auble, Nancy M., et al. (See Auble, James L., assignor.)
Auer, Rudolph W., Philadelphia, Pa. Ornamental fireplace grate. 1,692,021; Nov. 20.
Aull, Wilson, jr., Astoria, N. Y. Variable condenser. 1,692,607; Nov. 20.
Austin, Thomas W., and M. F. Swindle, Chandler, Ariz. Trailer hitch. 1,692,071; Nov. 20.
Automotive Valves Co., The. (See Burtnett, Everett R., assignor.)
Averill, William H., assignor to Joseph Pollak Tool and Stamping Company, Boston, Mass. Display rack. 1,692,324; Nov. 20.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Babitzky, Samuel, and V. Mathe, Chicago, Ill. Mixing machine. 1,692,022; Nov. 20.
Bacci, Romeo, and G. Vacca, Trieste, Italy. Decompressor valve. 1,691,953; Nov. 20.
Bacon, George M., assignor to Divco-Detroit Corporation, Detroit, Mich. Steering mechanism for motor vehicles. 1,692,535; Nov. 20.
Badger, Harry M., Great Barrington, assignor to Stanley Insulating Company, Berkshire, Mass. Vacuum vessel sealing. 1,691,912; Nov. 20.
Bailor, Silas E., Dill, Okla. Planter. 1,692,608; Nov. 20.
Baker, Daniel W., assignor of one-fourth to D. J. Collins and one-fourth to G. Bettandorff, Oakland, Calif., and one-fourth to H. C. Schroeder, Concord, Calif. Corn-popping machine. 1,692,432; Nov. 20.
Baker, Frederick W. W., et al. (See Baker, Thomas T., assignor.)

Baker, Thomas T., assignor of one-third to C. H. Watson and one-third to F. W. W. Baker, London, England. Picture-transmission system. 1,692,232; Nov. 20.

Baxter, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in the manufacture of shoes. 1,692,284; Nov. 20.

Ball Brothers Company. (See Graffin, Lewis, assignor.)

Bangert, Heinrich, and G. Hühn, Dusseldorf, Germany. Regenerative furnace. 1,691,913; Nov. 20.

Banner, Otto A., Milwaukee, Wis. Oil engine. 1,692,150; Nov. 20.

Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Sheet-feeding mechanism for printing presses. 1,692,023; Nov. 20.

Bard, Dale R., Bryan, Ohio. Fastener for roofing sheets. 1,692,401; Nov. 20.

Barfknecht, Lloyd H. (See Matthew, F. H., Broadbere, and Vosgerau, assignor.)

Bargeboer, Adolf, Rottendam, Netherlands. Feeding device. 1,692,536; Nov. 20.

Barker, Lincoln, assignor to Trippe, Barker & Co., New York, N. Y. Textile fabric. Des. 76,908; Nov. 20.

Barkschat, Henry, assignor to Marbelite Corporation of America, Los Angeles, Calif. Making hollow molds. 1,692,433; Nov. 20.

Barr, Lewis S., Chicago, Ill. Ventilating door. 1,692,484; Nov. 20.

Barrier, William C., assignor of one-third to H. W. Loomis, Fremont, Nebr. Apparatus for scalding poultry. 1,692,365; Nov. 20.

Bartels, Carl. (See Goldsmith, G. M., and Bartels.)

Barthel, John, Oak Park, Ill. Horse race game. 1,692,402; Nov. 20.

Barthelmess, Emil, Dusseldorf-Oberkassel, Germany. Silo. 1,692,610; Nov. 20.

Baskerville, John B., assignor to Impactograph Corporation, Roanoke, Va. Recording mechanism. 1,692,611; Nov. 20.

Bassett, Bernard S., San Jose, Calif. Antproof cupboard. 1,692,609; Nov. 20.

Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,692,537; Nov. 20.

Baumann, Karl, Urmston, England, assignor to Westinghouse Electric & Manufacturing Company. Elastic-fluid turbine. 1,692,538; Nov. 20.

Bead Chain Manufacturing Company, The. (See Goodridge, G. W., and Gagnon, assignors.)

Bean, James H., Sisson, Calif. Latch. 1,692,366; Nov. 20.

Becker, Harry S., River Forest, assignor to American Flyer Mfg. Co., Chicago, Ill. Automatic signaling means for toy tracks. 1,692,285; Nov. 20.

Becker, Harry S., River Forest, assignor to American Flyer Manufacturing Company, Chicago, Ill. Automatic switch. 1,692,367; Nov. 20.

Beckman-Dawson Roofing Co. (See Hofmann, William T., assignor.)

Beckmann, Wilhelm, Duisburg, and A. Schopper, Leipzig, Germany; said Beckmann assignors to said Schopper. Measuring apparatus for the thickness of webs. 1,692,243; Nov. 20.

Beeman Tractor Company. (See Liedtke, A. J., and Travers, assignors.)

Bellile, Gordon L., and F. Reissmann, Rhinelander, Wis. Gaff hook. 1,692,325; Nov. 20.

Benda, Jaroslav, Prague, Czechoslovakia. Footwear. 1,692,539; Nov. 20.

Bendero, Peter H., Minneapolis, Minn. Combination food server. Des. 76,909; Nov. 20.

Benham, Henry, Breckenridge, Tex. Automatic safety intake and outlet valve for tanks. 1,692,151; Nov. 20.

Bennington, Lemuel, Denver, Colo. Illuminated pointing head. 1,692,612; Nov. 20.

Bensa, Felice. (See Pongratz, Alfred, assignor.)

Benson, Ernest L., Pueblo, Colo. Thermostatically-operated switch. 1,692,540; Nov. 20.

Benzie, James. (See Roose, C., and Benzie.)

Bergeim, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of erythritol tetranitrate. 1,691,954; Nov. 20.

Bergeim, Frank H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive. 1,691,955; Nov. 20.

Bergmann, Hermann, Detroit, Mich. Aeroplane safety device. 1,692,108; Nov. 20.

Berland, Jacob B., St. Louis, Mo. Store front. Des. 76,910; Nov. 20.

Bernard, Arthur F. (See D'Alo, John, assignor.)

Bersted, Alfred and M., Chicago, Ill. Electric corn popper. Des. 76,911; Nov. 20.

Bersted, Martin. (See Bersted, Alfred and M.)

Bethke, John P., assignor to Magnetic Separator Company, Milwaukee, Wis. Magnetic pulley for pan conveyers. 1,692,613; Nov. 20.

Bethlehem Steel Company. (See Lukens, W. L., and Greenwell, assignors.)

Bettandorff, George, et al. (See Baker, Daniel W., assignor.)

Bien, Albert H., Philadelphia, Pa. Textile fabric or similar article of manufacture. Des. 76,912; Nov. 20.

Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Automatic pin-setting machine. 1,692,796; Nov. 20.

Bishop, Joseph W., Muskegon, Mich., assignor to The Brunswick-Balke-Collender Company, Wilmington, Del. Combined phonograph and radio receiving apparatus. 1,692,797; Nov. 20.

Bissell, Richard E., Cleveland Heights, assignor to Thompson Products, Incorporated, Cleveland, Ohio. Heating furnace. 1,692,614; Nov. 20.

Black, John C., Destrehan, La. Process and apparatus for fractionating hydrocarbon oils. 1,692,072; Nov. 20.

Blackhall, John R., Joliet, Ill. Drawbar. 1,692,109; Nov. 20.

Blair, George W., assignor to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Slider-operated fastener. 1,692,196; Nov. 20

Blair, James C., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass down flow apparatus. 1,692,615; Nov. 20.

Blake, C. C., Incorporated. (See La Chapelle, Euclid L., assignor.)

Blake & Johnson Company. (See Lynch, J. M., and Gilmour, assignors.)

Blanchard, Zephir A., Montreal, Quebec, Canada. Vise and mount therefor. 1,691,956; Nov. 20.

Blanshan, Russell R., Buffalo, N. Y. Garment. 1,691,957; Nov. 20.

Blaw-Knox Company. (See Venable, William M., assignor.)

Blenko, Walter J. (See Shields, P. W., and Blenko.)

Bliss, Harry H., deceased, and K. Porter, Royal Oak, Mich.; O. M. Bliss, administratrix. Door opener and closer. 1,692,541; Nov. 20.

Bliss, Olive M., administratrix. (See Bliss, H. H., and Porter.)

Blom, Hjalmar T., Michigan City, Ind., assignor to Sullivan Machinery Company. Valve shield. 1,692,265; Nov. 20.

Blunt, James G., Schenectady, N. Y. Lateral-motion device for locomotive driving boxes. 1,692,616; Nov. 20.

Boggs, Samuel W., Chevy Chase, Md. Drawing device. 1,692,326; Nov. 20.

Bohn Aluminum & Brass Corporation. (See Fiegel, William J., assignor.)

Bonsall, Charles D., New Kensington, Pa. Load-lifting arrangement. 1,692,197; Nov. 20.

Bonsall, Charles D., Parnassus, Pa., assignor to Union Metal Products Company, Chicago, Ill. Car-wall construction. 1,692,198; Nov. 20.

Boorum & Pease Company. (See Kinley, Charles A., assignor.)

Borg, George W. (See Hobbs, John W., assignor.)

Borsbach, Ernst. (See Pistor, G., and Borsbach.)

Bosco, George B., Chicago, Ill. Timber clamp. 1,692,152; Nov. 20.

Bosselut, Antoine, Paris, France. Electrical means for controlling lifts and the like. 1,692,542; Nov. 20.

Bostick, Elizabeth H., et al. (See Bostick, Evelyn D., assignor.)

Bostick, Evelyn D., Columbia, S. C., assignor of fifty-one per cent to E. H. Bostick and one per cent to C. L. Prince. Shirt-sleeve supporter. 1,691,958; Nov. 20.

Bottle, Edward K., Elmira, N. Y., assignor to American Sales Book Company, Limited, Toronto, Canada. Manifolding sales book. 1,691,914; Nov. 20.

Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate. Des. 76,913; Nov. 20.

Botts, Raymond A., Stockton, Calif. Heat control for cooking utensils. 1,692,153; Nov. 20.

Bourgeois, Clarence H., assignor to The Haughton Elevator & Machine Company, Toledo, Ohio. Switch-operating mechanism. 1,691,915; Nov. 20.

Bourgon, Joseph H., Detroit, Mich., assignor to The Studebaker Corporation, South Bend, Ind. Body construction. 1,692,543; Nov. 20.

Bourne-Fuller Company, The. (See Newpher, Charles F., assignor.)

Bowen, William S., Westfield, N. J. Centrifugal disintegrator for liquids. 1,692,617; Nov. 20.

Bowers, Claude E., Los Angeles, Calif. Slide for extension tables. 1,692,618; Nov. 20.

Bowman, A. M. (See Hamaker, Rex G., assignor.)

Bowman, Herbert S., Chicago, Ill. Calendar. 1,692,199; Nov. 20.

Boyce-Ite Products, Incorporated. (See Orelup, J. W., and Lee, assignors.)

Boyle, James J., New York Mills, N. Y. Treating spun yarns in the course of their manufacture. 1,692,717; Nov. 20.

Boyne, John J., Buffalo, N. Y. Water-closet. 1,692,368; Nov. 20.

Brady, Arthur C., Brooklyn, assignor to Chas. Freshman Co. Inc., New York, N. Y. Rheostat. 1,691,916; Nov. 20.

Brady, William. (See Hachenberg, Louis, assignor.)

Braitmayer, Otto E., assignor to The Tabulating Machine Company, New York, N. Y. Duplicating machine. 1,691,917; Nov. 20.

Bray, Patrick H., Huntington Beach, Calif. Packer for working barrels. 1,692,485; Nov. 20.

Brell, Jules J., New York, N. Y. Scouring device. 1,692,244; Nov. 20.

Brenner, Reinhold F., New Haven, Conn. Casement-window operator. 1,692,073; Nov. 20.

Brero, Francesco, Turin, Italy. Electric machine for welding metallic tubes or pipes. 1,692,245; Nov. 20.





Brero, Francesco, Turin, Italy. Electric upsetting or jolting machine. 1,692,327; Nov. 20.

Brill, J. G., Company, The. (See Worms, Jacques, assignor.)

British Drug Houses, Limited, The. (See Pope, William J., assignor.)

Broadbere, Martin A. (See Matthew, F. H., Broadbere, and Vosgerau.)

Brogden, Ernest M., Santa Monica, Calif., assignor to Brogdex Company, Winter Haven, Fla. Process and apparatus for forming a protective and preservative coating upon fruit and the like. 1,692,286; Nov. 20.

Brogdex Company. (See Brogden, Ernest M., assignor.)

Broido, Benjamin, New York, N. Y., and R. M. Swartz, Bogota, N. J., assignors to The Superheater Company, New York, N. Y. Superheater header. 1,692,154; Nov. 20.

Bronson, Adelbert E., assignor to The Dill Manufacturing Company, Cleveland, Ohio. Quick-detachable dust cap. 1,692,024; Nov. 20.

Brooks, John A., Detroit, Mich. Fluid-tight packing. 1,692,403; Nov. 20.

Brown & Bigelow. (See Harris, Blaine H., assignor.)

Brown, George W., Quincy, Mass., assignor to Tubular Rivet & Stud Co., Boston, Mass. Lacing-stud-setting machine. 1,692,246; Nov. 20.

Brown, Phelps, Springfield, and I. E. Hendrickson; said Hendrickson assignor to Wico Electric Company, West Springfield, Mass. Magnet. 1,692,718; Nov. 20.

Brown, Wilbur F., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Laminated glass and producing the same. 1,692,619; Nov. 20.

Brownell, Frank A., Rochester, N. Y. Circuit-controlling means for ignition circuits of motor vehicles. 1,692,155; Nov. 20.

Browning, John, administrator. (See Browning, John M.)

Browning, John M., deceased, Ogden, Utah; J. Browning, administrator. Cartridge-feeding device for automatic firearms. 1,692,328; Nov. 20.

Bruce, Alfred W., New York, N. Y., and J. B. Ennis, Paterson, N. J. Method of and apparatus for controlling the cut-off of distribution valves of locomotives. 1,692,620; Nov. 20.

Brunswick-Balke-Collender Company, The. (See Bishop, Joseph W., assignor.)

Brunswick-Balke-Collender Company, The. (See Nystrom, Martin, assignor.)

Buck, Everett A. (See Malloy, M. J., and Buck.)

Buckman, Nellie L., Santa Ana, Calif. Quickly-detachable valve cap. 1,692,021; Nov. 20.

Bulmer, James W., Cullingworth, England. Manufacture of cellulose acetate. 1,692,622; Nov. 20.

Bundy, Samuel D., Pomona, Calif. Refuse receptacle. 1,692,287; Nov. 20.

Burlew, Gilderoy O., Newark, N. J. Abrasive wheel. 1,692,329; Nov. 20.

Burns, Katherine E., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 76,914; Nov. 20.

Burtchaell, Samuel W., Oakland, Calif. Shoe making or repairing apparatus. 1,692,623; Nov. 20.

Burtis, William H., Plainfield, N. J. Oscillation generator. 1,692,074; Nov. 20.

Burtnett, Everett R., assignor to The Automotive Valves Co., Los Angeles, Calif. Internal combustion engine. 1,692,025; Nov. 20.

Busey, Ruth, Seattle, Wash. Cap fastener. 1,692,719; Nov. 20.

Byington, James A., Orlando, Fla. Hand truck. 1,692,624; Nov. 20.

Callahan, Michael J., New York, N. Y. Heating and ventilating unit. 1,692,330; Nov. 20.

Campbell, Sterling H. (See Van Patten, Paul F., assignor.)

Candas, Gaston, Paris, France. Hinge for jewelry. 1,692,434; Nov. 20.

Cannard, William H., Green Bay, Wis. Web-converting apparatus. 1,692,720; Nov. 20.

Cantieny, Georg, assignor to Kohlenscheidungs-Gesellschaft m. b. H., Berlin, Germany. Boiler structure with pulverized-coal-burning furnace. 1,691,918; Nov. 20.

Caps, Arthur W., and I. E. Leininger, Kansas City, Mo., assignors, by mesne assignments, to Photostat Corporation, Providence, R. I. Photographic copying machine. 1,692,544; Nov. 20.

Capuano, Crescenzo, Los Angeles, Calif. Watch-lock attachment for pockets. 1,692,200; Nov. 20.

Carden, Guy S. (See Hutchinson, G. N., and Carden.)

Carlsen, James V. (See Dayton, A. E., and Carlsen.)

Carnahan, Paul A. (See Dickey, R. S., and Carnahan.)

Carpenter, Francis W., Minneapolis, assignor of one-half to M. H. Graham, St. Louis Park, Minn. Cigarette case. 1,692,545; Nov. 20.

Carpineti, Arnaldo, Buenos Aires, Argentina. High-duty petroleum stove. 1,692,075; Nov. 20.

Carpmael, Richard H., Moulton, England. Motor-vehicle radiator. 1,692,721; Nov. 20.

Carroll, Charles P. (See Carroll, James O., assignor.)

Carroll, Fred M., Yonkers, assignor to The Tabulating Machine Company, Endicott, N. Y. Record-feeding machine. 1,691,919; Nov. 20.

Carroll, James O., Pittsfield, Ill., assignor of fifty-one per cent to C. P. Carroll, Kansas City, Mo. Clothespin. 1,692,076; Nov. 20.

Carruthers, George, Toronto, Ontario, Canada. Cabinet for dispensing folded paper sheets. 1,692,156; Nov. 20.

Carvajal de Castro, Miguel A. (See de Castro, Miguel A. C.)

Caskey, Luther H., assignor to Caskey Turn-Kwik Corporation, Martinsburg, W. Va. Packing fruits, vegetables, and other products. 1,692,625; Nov. 20.

Caskey Turn-Kwik Corporation. (See Caskey, Luther H., assignor.)

Castan, Karl, Pforzheim, Germany. Ruling apparatus for characters. 1,692,149; Nov. 20.

Cave, Henry, Hartford, and H. H. Fitzgerald, Berlin, assignors to The Fuller Brush Company, Hartford, Conn. Handle connecter for implements. 1,692,110; Nov. 20.

Central Alloy Steel Corporation. (See Alden, John W., assignor.)

Central Brass and Fixture Company, The. (See McCloud, Edward H., assignor.)

Chapman, Clarence M., assignor to The Chapman Machine Company, Terryville, Conn. Electrically-heated implement handle. 1,692,626; Nov. 20.

Chapman, George H., Chicago, Ill. Electromagnetically-actuated switch. 1,691,920; Nov. 20.

Chapman Machine Company, The. (See Chapman, Clarence M., assignor.)

Chrysler Corporation. (See Woolson, Harry T., assignor.)

City Dairies Company. (See Huefner, Joseph, assignor.)

Claessens, Frederick C. (See Miller, Paul, assignor.)

Clark, Edward F., assignor, by mesne assignments, to Clark Lighter Co., Inc., North Attleboro, Mass. Igniter. 1,692,627; Nov. 20.

Clark Lighter Co. (See Clark, Edward F., assignor.)

Clarke, Frank, Louisville, Ky. Window ventilator. 1,692,288; Nov. 20.

Clemensen, Axel, Chicago, Ill. Tappet-noise eliminator. 1,692,435; Nov. 20.

Clement, Edward H., assignor to E. F. Colladay, Washington, D. C. Radio broadcast selecting and distributing system. Re17,142; Nov. 20.

Cleveland Heater Company, The. (See Doen, Loran F., assignor.)

Cleveland Heater Company, The. (See Friedman, Arthur, assignor.)

Cleveland, Ragna, Kelly, Iowa. Combined window and screen operating mechanism. 1,692,247; Nov. 20.

Clifford, Leslie B., Texarkana, Ark. Pump valve. 1,692,795; Nov. 20.

Clifford, Vernon J. P., London, England. Life guard or obstruction remover for motor, road, and other vehicles. 1,692,369; Nov. 20.

Clough, Newsome H., Chelmsford, England, assignor to Radio Corporation of America. Variable inductance. 1,692,331; Nov. 20.

Clymer, Vincent S. (See Smith, William J., assignor.)

Cochran, Arthur A., Chanute, Kans. Radial stay tongs. 1,692,077; Nov. 20.

Cohn, Alfred, Charlottenburg, Germany, assignor to General Electric Company. Thermal and electroresponsive device. 1,692,486; Nov. 20.

Colby, Allan B. (See Reiter, L., and Colby.)

Coleman, Arthur, Kansas City, Mo. Carbureting vaporizer. 1,692,078; Nov. 20.

Coleman, Stephen L. C., Fredericton, New Brunswick, Canada. Vehicle suspension. 1,691,959; Nov. 20.

Colladay, Edward F. (See Clement, Edward E., assignor.)

Collier, Guy B., Kinderhook, N. Y. Internal-combustion motor. 1,692,628; Nov. 20.

Collins, Dominick J., et al. (See Baker, Daniel W., assignor.)

Colt's Patent Fire Arms Manufacturing Co. (See Lattin, Robert B., assignor.)

Colt's Patent Fire Arms Manufacturing Company. (See Pfeiffer, Christian, assignor.)

Colt's Patent Fire Arms Manufacturing Co. (See Schmalz, W. F., and Dodd, assignors.)

Colucci, Antonio, Brooklyn, N. Y. Lamp stand. Des. 76,915; Nov. 20.

Columbus-McKinnon Chain Company, The. (See McKinnon, Archibald L., assignor.)

Combustion Engineering Corporation. (See Jackson, George P., assignor.)

Combustion Engineering Corporation. (See Van Brunt, John, assignor.)

Commerce Guardian Trust and Savings Bank, trustee. (See Replogle, Daniel B., assignor.)

Commonwealth Steel Company. (See Pfager, Harry M., assignor.)

Commonwealth Steel Company. (See Stuart, Hugh, assignor.)

Connel, Edwin L., assignor to The Van Dorn Electric Tool Company, Cleveland, Ohio. Motor-driven threading tool. 1,692,487; Nov. 20.

Consolidated Car-Heating Company. (See Griffin, Percy M., assignor.)

Conwell Graphic Company. (See Conwell, Lee R., assignor.)

Conwell, Lee R., Elmhurst, assignor to Conwell Graphic Company, Incorporated, New York, N. Y. Display device. 1,692,404; Nov. 20.

Cook, Everett J., assignor to The Dura Company, Toledo, Ohio. Window-control mechanism. 1,692,157; Nov. 20.

Cooke, George T., Norwalk, Conn. Cotter-pin-locking means. 1,692,026; Nov. 20.

Cooper Humane Trap Co. (See Cooper, William, assignor.)
Cooper, William, Apalachin, assignor to Cooper Humane Trap Co., Inc., Binghamton, N. Y. Animal trap. 1,692,158; Nov. 20.
Copeland, William A., Boston, Mass., assignor to International Shoe Company, St. Louis, Mo. Sole-waxing machine. 1,692,332; Nov. 20.
Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Refrigerator or cabinet. 1,692,159; Nov. 20.
Cordely, Christopher M., New York, N. Y. Beverage-dispensing apparatus. Des. 76,916; Nov. 20.
Corley, Joseph P. (See Harding, Ray O., assignor.)
Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)
Coulier, Sylvain, Brussels, Belgium. Manufacture of alkaline cyanides. 1,691,960; Nov. 20.
Craig, Alexander, London, England. Device for waving and curling hair. 1,692,111; Nov. 20.
Cram, Hervey G., assignor to Great Northern Paper Company, Millinocket, Me. Method and apparatus for handling broke. 1,692,142;
Crane, Charles R., 2d, assignor to Crane Co., Chicago, Ill. Lavatory. Des. 76,917; Nov. 20.
Crane, Charles R., 2d, assignor to Crane Co., Chicago, Ill. Lavatory. Des. 76,918; Nov. 20.
Crane Co. (See Crane, Charles R., 2d, assignor.)
Crenshaw, Benjamin A., Chicago, Ill. Signaling device. 1,692,333; Nov. 20.
Croft, Hiram D. (See Perkins, J. L., and Croft.)
Crorex Holding Company. (See Rex, Walter H., assignor.)
Crow, William W., Treece, Kans. Register mechanism. 1,691,961; Nov. 20.
Crown Cork & Seal Company. (See Elder, John D., assignor.)
Crown Cork & Seal Company. (See McManus, Charles E., assignor.)
Curran, Frank L. (See Murr, A. C., and Curran.)
Curtiss Aeroplane & Motor Co. (See Wait, William, jr., assignor.)
Culp, George W., Magrath, Alberta, Canada. Draft equalizer. 1,692,113; Nov. 20.
Dalén, Gustaf, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Electric flash-light apparatus. 1,692,629; Nov. 20.
D'Alfonso, Alex C., Santa Barbara, Calif. Cabinet latch. 1,692,248; Nov. 20.
D'Alo, John, assignor to A. F. Bernard, Providence, R. I. Automatic strap tightener. 1,692,079; Nov. 20.
Damgaard, Niels P., Copenhagen, Denmark. Float valve. 1,692,289; Nov. 20.
Dana, Fred A. (See Heslewood, William R., assignor.)
Dannell, Arthur G., assignor to Elektromatik Forging Machine Corporation, New York, N. Y. Electrical heating and forming method. 1,692,488; Nov. 20.
Darby, James K., assignor of one-third to L. C. Stoltz, Dayton, Ohio. Electric motor-winding machine. 1,692,114; Nov. 20.
Davis, Norman C., Perth Amboy, N. J., assignor, by mesne assignments, to General Cable Corporation. Stranded sector-shaped conductor. 1,691,921; Nov. 20.
Davis, Norman C., Perth Amboy, N. J., assignor to General Cable Corporation, New York, N. Y. Stranded sector-shaped conductor. 1,692,767; Nov. 20.
Davis, Samuel H. (See Paul, Stephen, assignor.)
Davy, Lynden N., Cheyenne, Wyo. Zero-resetting device. 1,692,293; Nov. 20.
Dayton, Albert E., and J. V. Carlsen, Pocatello, Idaho. Claw bar. 1,692,722; Nov. 20.
Deane, Harry B., Monroe, Mich. Turf-cutting device. 1,692,436; Nov. 20.
De Castro, Miguel A. C., Bogota, Colombia. Electric post lamp. 1,692,549; Nov. 20.
Deere & Company. (See Gamble, Carl H., assignor.)
Deere & Company. (See Tolmie, Ronald C., assignor.)
Deere & Company. (See Van Brunt, Willard A., assignor.)
De Forest Phonofilm Corporation. (See Halpenny, Richard, assignor.)
De Hass, Gilbert O., Vandalia, Mo. Folding bed. 1,692,080; Nov. 20.
De la Cierva, Juan, Madrid, Spain. Aircraft with rotative wings. 1,692,081; Nov. 20.
De la Cierva, Juan, Madrid, Spain. Aircraft with rotative wings. 1,692,082; Nov. 20.
Delaib, Fannie M., Chicago, Ill. Oven rack. 1,692,630; Nov. 20.
De Lan, Eugene A., assignor to Shenango Pottery Company, New Castle, Pa. Plate. Des. 76,919; Nov. 20.
De Long, James E., assignor to Waukesha Motor Company, Waukesha, Wis. Combination brake and guard structure. 1,692,027. Nov. 20.
De Luxe Clock & Mfg. Co., The. (See Stern, Louis, assignor.)
Demarest, Charles S., Ridgewood, N. J., assignor to American Telephone and Telegraph Company. Selective signaling system. 1,691,962; Nov. 20.
De Mattia, Peter, Passaic, N. J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Collapsible core structure. 1,692,249; Nov. 20.
Denelsbeck, David, and C. D. Dille, Newark, assignors to The Owens Bottle Company, Toledo, Ohio. Ware rack. 1,692,631; Nov. 20.
Denman, Ira O., and C. W. Watson, Toledo, Ohio; said Watson assignor to said Denman. Hand grip for golf clubs or the like. 1,692,201; Nov. 20.
Dent Hardware Co., The. (See Schrader, Thomas O., assignor.)
De Rueda, Manuel G., Paris, France. Pump and like engine. 1,692,290; Nov. 20.
Deschâtres, François A. H. (See Vulliet, H. G. R., and Deschâtres.)
Detroit Patents Holding Company. (See Haggart, John C., jr., assignor.)
De Vries, Jacob J., Sanborn, Iowa. Self-cleaning cultivator shovel. 1,692,250; Nov. 20.
Dexter, Talbot C., Pearl River, N. Y. Paper-feeding machine. 1,691,963; Nov. 20.
Di Clo, John, et al. (See Shepperack, Joseph E., assignor.)
Dickey, Joseph, Synder, Nebr. Door hanger. 1,692,632; Nov. 20.
Dickey, Ray S., and P. A. Carnahan, Manhattan, Kans. Insulator-locking device. 1,691,964; Nov. 20.
Dicomes, James, and P. Janos, Boston, Mass. Adjustable menu or advertising device. 1,692,633; Nov. 20.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 76,920; Nov. 20.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 76,921; Nov. 20.
Dill Manufacturing Company, The. (See Bronson, Adelbert E., assignor.)
Dille, Clarence D. (See Denelsbeck, D., and Dille.)
Dinsmore, Clarence B., assignor to A C Spark Plug Company, Flint, Mich. Odometer transfer mechanism. 1,692,489; Nov. 20.
Divco-Detroit Corporation. (See Bacon, George M., assignor.)
Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,691,922; Nov. 20.
Dodd, Robert E. (See Schmalz, W. F., and Dodd.)
Doen, Loran F., assignor to The Cleveland Heater Company, Cleveland, Ohio. Water heater. 1,692,768; Nov. 20.
Doherty Research Company. (See Isham, Robert M., assignor.)
D'Oller, Henry, jr., Bridgeport, Conn. Electrical wall-bracket support. 1,692,251; Nov. 20.
Doine-Dehan, Gaston, Juan les Pins, France. Electro-mechanical starting device for heat engines. 1,692,546; Nov. 20.
Dormer, John A., Detroit, Mich. Mechanical movement. 1,692,160; Nov. 20.
Dormer, John A., and J. G. Malone, Detroit, Mich. Crusher. 1,692,161; Nov. 20.
Dorsey, Parmer, Wichita, Kans., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Steam-engine lubricator. 1,692,202; Nov. 20.
Dovjikov, Alexander D. (See Evans, R. D., Wagner, Dovjikov, and Shand.)
Dowd, William C., Quincy, Ill. Multistage pump. 1,692,291; Nov. 20.
Doweiko, James C., assignor to National Seal Company, Inc., Brooklyn, N. Y. Closure. 1,692,634; Nov. 20.
Downs, Garrett B., Mauch Chunk, Pa. Automatic toy crane. 1,692,723; Nov. 20.
Dräger, Alexander B. (See Stelzner, Hermann, assignor.)
Dräger, Elfriede, née Stangen, executrix. (See Stelzner, Hermann.)
Dragon, Joseph, McKees Rocks, Pa. Tool handle. 1,692,490; Nov. 20.
Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Grinding head. 1,692,635; Nov. 20.
Draper, Luther O. (See Pidgeon, Elmer F., assignor.)
Drowns, Edmond E., Cleveland, Ohio. Grinding machine. 1,692,769; Nov. 20.
Dubilier, William, New Rochelle, assignor to Radio Patents Corporation, New York, N. Y. Electric flasher device. 1,692,292; Nov. 20.
Duffield, Frederick L., Brassington, England. Gas producer. 1,692,724; Nov. 20.
Dultgen, Arthur, New York, and A. Weiss, Brooklyn, N. Y. Machine for obtaining the register of the etchings for multicolor intaglio printing cylinders. 1,692,636; Nov. 20.
Dumas Engineering Company. (See Dumas, Maxwell G., assignor.)
Dumas, Maxwell G., Pittsburgh, Pa., assignor to Dumas Engineering Company, Youngstown, Ohio. Hot top for ingot molds. 1,692,491; Nov. 20.
Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)
Dunn, Frank L., Omaha, Nebr. Measuring device. 1,692,637; Nov. 20.
Du Pont, E. I., de Nemours & Company. (See Bergelm, Frank H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Rose, Robert E., assignor.)
Dura Company, The. (See Cook, Everett J., assignor.)
Dura Company, The. (See Wilson, Herbert, assignor.)
Dyer, Reamey H., Roanoke, Va. Journal-box waste retainer. 1,692,334; Nov. 20.
Dyer, Reamey H., Roanoke, Va. Waste retainer. 1,692,335; Nov. 20.



E. & N. Manufacturing Company. (See Newton, M. C., and Gremling, assignors.)
Eaton Axle & Spring Company, The. (See Wamelink, Eugene C., assignor.)
Eclipse Textile Devices, Inc. (See Hasbrouck, Louis B., assignor.)
Eclipse Textile Devices Inc. (See Mann, J. V., and Hasbrouck, assignors.)
Edmondson, Ralph S., Elizabeth, N. J., and E. Hahn, Philadelphia, Pa., assignors to American Abrasive Metals Company. Manufacture of articles adapted to resist abrasion. 1,692,725; Nov. 20.
Edwards, Eugene P., assignor to Simplex Universal Joint, Inc., Flemington, N. J. Universal joint. 1,692,638; Nov. 20.
Eichman, Arthur W., assignor to A. Mueller, trustee, Decatur, Ill. Knockdown refreshment booth. 1,692,252; Nov. 20.
Eichwede, Heinz, E. Fischer, and C. E. Müller, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing cellulose derivatives. 1,692,492; Nov. 20.
Eichwede, Heinz, E. Fischer, and C. E. Müller, Hochst-on-the-Maine, Germany, assignors, to Grasselli Dyestuff Corporation, New York, N. Y. Dyeing cellulose derivatives. 1,692,493; Nov. 20.
Eisele, Leonhard, Pfaffenhofen, Post Buttenwiesen, Germany. Support for knives of mowing machines. 1,692,494; Nov. 20.
Eisenmann, John, deceased, by The Manell Building Block & Tile Company, assignee, Cleveland, Ohio. Building block and construction. Re17,137; Nov. 20.
Egbert, Miriam R. (See Sanchez, Roman L., assignor.)
Eggleston, Lewis W., Clarence Township, Erie County, assignor to American Radiator Company, New York, N. Y. Valve. 1,692,770; Nov. 20.
Egloff, Gustav, Chicago, Ill. Treating hydrocarbons. 1,692,203; Nov. 20.
Ehlers, Robert J. (See Gundelach, Emil C., assignor.)
Eklund, Karl, assignor to W. E. Keough Company, Forest Park, Ill. Handle for operating levers. 1,691,923; Nov. 20.
Elder, John D., Rockville Center, assignor, by mesne assignments, to Crown Cork & Seal Company, Inc., New York, N. Y. Rack for drying ovens. 1,692,294; Nov. 20.
Electrical Engineers Equipment Company. (See Lotz, Alfred F. C., assignor.)
Electrolux Servel Corporation. (See Lenning, Alvar, assignor.)
Electrolux Servel Corporation. (See Munters, Carl G., assignor.)
Elektromatik Forging Machine Corporation. (See Dannell, Arthur G., assignor.)
Elevator Company of America. (See Rice, Joseph, assignor.)
Elliott, Walton H., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Pipe-cleaning apparatus. 1,692,028; Nov. 20.
Ellis-Foster Company. (See Weber, Harry M., assignor.)
Elsner, Henry L., Detroit, Mich. Pump. 1,692,630; Nov. 20.
Ennis, Joseph B. (See Bruce, A. W., and Ennis.)
Enterprise Manufacturing Company, The. (See Pflueger, C. T., and Adams, assignors.)
Epstein, James B., Jersey City, N. J., and M. Shenkin, New York, N. Y. Light or globe attaching device. 1,692,029; Nov. 20.
Erickson, Erick G., Alexandria, Minn. Anchor-cable guide and holder for boats. 1,692,640; Nov. 20.
Erickson, Frederick F., Kenmore, N. Y., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,692,253; Nov. 20.
Eskimo Pie Corporation. (See Urschel, William E., assignor.)
Estabrooks, Maurice A., Augusta, Me. Door hook. 1,692,726; Nov. 20.
Estwick, Charles F., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Automatic train-control system. 1,692,370; Nov. 20.
Evans, Morris, Washington, D. C. Portable electric cooker. 1,692,547; Nov. 20.
Evans, Robert D., Pittsburgh, C. F. Wagner, Swissvale, A. D. Dovjikov, Wilkinsburg, and E. B. Shand, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company. Quick-excited machine and system of transmission. 1,692,495; Nov. 20.
Exsternbrink, Otto, Westhofen, Germany. Wall coffee mill for two different grinding materials. 1,692,162; Nov. 20.
Falk, Erwin H., Davenport, Iowa. Machine for making mattresses. 1,691,924; Nov. 20.
Farman, Henri, Billancourt, France. Liquid-level indicator. 1,692,163; Nov. 20.
Farr, Lucille. (See Wooldridge, John, assignor.)
Farrington, John F., Flushing, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,692,437; Nov. 20.
Feldman, Abraham G., Chicago, Ill. Child's bed or similar article. Des. 76,922; Nov. 20.
Feldman, Abraham G., Chicago, Ill. Bed. Des. 76,923; Nov. 20.
Feldman, Abraham G., Chicago, Ill. Wardrobe. Des. 76,924; Nov. 20.
Feldman, Abraham G., Chicago, Ill. Crib. 1,692,083; Nov. 20.
Fernbach, Auguste, Paris, France, and J. L. Yuill, York, assignors to Rowntree and Company Limited, of the Cocoa Works, York England. Production of citric acid. 1,691,965; Nov. 20.
Fernbach, Auguste, Paris, France, and J. L. Yuill, York, assignors to Rowntree and Company Limited, of the Cocoa Works, York, England. Production of citric acid. 1,691,966; Nov. 20.
Ferngren, Enoch T., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for drawing and flattening sheet glass. 1,692,548; Nov. 20.
Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic press. 1,692,771; Nov. 20.
Fidelity Radio Corporation. (See Hemming, John S., assignor.)
Fiegel, William J., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Clamp for molding machines. 1,692,204; Nov. 20.
Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)
Finley, Charles A., Rutherford, N. J., assignor to Boorum & Pease Company, New York, N. Y. Loose-leaf binder. 1,692,641; Nov. 20.
Firestone Tire and Rubber Company, The. (See Semler, Clyde M., assignor.)
Fischer, Albert C., Des Plaines, Ill. Shingle or block construction. Re17,143; Nov. 20.
Fischer, Albert C., Chicago, Ill. Rail filler. 1,694,642; Nov. 20.
Fischer, Erich. (See Eichwede, H. Fischer, and Müller.)
Fitzgerald, Horace H. (See Cove, H., and Fitzgerald, assignors.)
Fli-Bac Screen Corporation. (See Nye, Alvin F., assignor.)
Foley, John J., assignor to H. Reuber, jr., and himself, doing business as The Art Lamp and Novelty Company, Harftord, Conn. Shade support for lamps. 1,692,772; Nov. 20.
Folk, Joseph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Gripping device for slicing machines. 1,692,336; Nov. 20.
Forbes, Dorothy, Boston, Mass. Adjustable holder. 1,692,337; Nov. 20.
Forte, Albert C., Virginia, Minn. Identifying ribbon or check holder. 1,692,643; Nov. 20.
Fosnaugh, George S., et al. (See Shaffer, William D., assignor.)
Foster, Walter W. (See Hill, R. D., and Foster.)
Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
Fox, Eugene R., Southport, England, assignor to U. S. Slicing Machine Company, La Porte Ind. Clamping device for slicing machines. 1,692,338; Nov. 20.
Frankenberger, Fred W., Louisville, Ky., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Combination faucet and soap dish. Des. 76,925; Nov. 20.
Franklin Simon & Company. (See Burns, Katherine E., assignor.)
Freedman, Leopold, et al. (See Newell, Floyd B., assignor.)
Freeman, Charles A., assignor to The Simplex Ticket Company, Chicago, Ill. Ticket and producing the same. 1,692,405; Nov. 20.
Freer, Charles K., Fond du Lac, Wis. Rail joint. 1,692,254; Nov. 20.
Freshman, Chas., Co. Inc. (See Brady, Arthur C., assignor.)
Frick, J. F., et al, trustees. (See Marsh, Howard E., assignor.)
Friedman, Arthur, assignor to The Cleveland Heater Company, Cleveland, Ohio. Relief valve. 1,692,773; Nov. 20.
Friedman, Leon, Detroit, Mich. Wire-insulation stripper. 1,692,030; Nov. 20.
Früb, Walther, Eberswalde, near Berlin, assignor to the firm Franz Seiffert & Co. Aktiengesellschaft, Berlin, Germany. Slide stop valve. 1,692,496; Nov. 20.
Froesch, Charles, assignor to International Motor Company, New York, N. Y. Combination electric drive. 1,692,371; Nov. 20.
Fromknecht, Bernard M., assignor to The Griswold Manufacturing Company, Erie, Pa. Electric cooking utensil. 1,692,644; Nov. 20.
Fromm, Harry E., Detroit, Mich. Heater. 1,692,164; Nov. 20.
Fuller Brush Company, The. (See Cave, H., and Fitzgerald, assignors.)
Fuller, Lawrence C., Kalamazoo, Mich. Change-speed transmission gear. 1,692,406; Nov. 20.
Fuller-Warren Company, The. (See Gregg, William L., assignor.)
Fulton, William H., Irvington, N. J., assignor, by mesne assignments, to Titeflex Metal Hose Co. Universal grease gun. 1,692,255; Nov. 20.
Furlan, John G., assignor to Furlan Nut Machinery Corporation, New York, N. Y. Making lock nuts. 1,692,497; Nov. 20.
Furlan Nut Machinery Corporation. (See Furlan, John G., assignor.)
Gagnon, William J. (See Goodridge, G. W., and Gagnon.)
Galler, Louis, New York, N. Y., assignor to E. E. Lloyd Paper Co., Chicago, Ill. Safety paper. 1,692,645; Nov. 20.
Gallimore, Keith F. (See Kempton, H. E., Gallimore, and Woytych.)

Gamble, Carl H., assignor to Deere & Company, Moline, Ill. Apparatus for controlling the ventilation of automobile radiators. 1,692,031; Nov. 20.

Gamble, William C., New York, N. Y., assignor to General Optical Company, Inc. Container for fused-bifocal-lens blanks. 1,691,925; Nov. 20.

Gammeter, William K., Cadiz, Ohio. Humidifier. 1,691,907; Nov. 20.

Gannon, James E., and M. W. Ward; said Ward assignor to J. M. Gannon, Erie, Pa. System for heating water. 1,692,646; Nov. 20.

Gannon, John M. (See Gannon, J. E., and Ward.)

Gardner, Henry A., Washington, D. C. Treating artificial silk. 1,692,372; Nov. 20.

Garside, Herbert R., Long Island City, N. Y. Counter for shoes. 1,692,165; Nov. 20.

Gat Gun Lubricating Corporation. (See Shere, Albert T., assignor.)

Gates, Lee O., Denver, Colo. Structural-form tie. 1,692,166; Nov. 20.

Gates, Lee O., Denver, Colo. Structural-form tie. 1,692,167; Nov. 20.

Gates, Sylvester A., Detroit, Mich. Tar-laid building material. 1,692,438; Nov. 20.

Gates, Walter S., Detroit, Mich., assignor, by mesne assignments, to General Cable Corporation. Drying apparatus. 1,692,498; Nov. 20.

Gearhart, James W., Fresno, Calif. Book holder. 1,692,727; Nov. 20.

Geiser, Herman P., Lima, Ohio. Foldable barricade. 1,691,926; Nov. 20.

Geloso, John, New York, N. Y. Escutcheon plate for a vernier dial. Des. 76,926; Nov. 20.

General Cable Corporation. (See Davis, Norman C., assignor.)

General Cable Corporation. (See Gates, Walter S., assignor.)

General Cable Corporation. (See Potter, Frank M., assignor.)

General Electric Company. (See Cohn, Alfred, assignor.)

General Electric Company. (See Traver, Oliver C., assignor.)

General Electric Company Limited, The. (See Randall, Edgar L., assignor.)

General Optical Company. (See Gamble, William C., assignor.)

General Railway Signal Company. (See Estwick, Charles F., assignor.)

General Railway Signal Company. (See Wenholz, Walter W., assignor.)

General Reduction Corporation. (See Smith, William H., assignor.)

Geoffroy, Clara B. Y., River Point, R. I. Chair. Des. 76,927; Nov. 20.

Gérard, Auguste L. J., Paris, France. Automatic fastening device. 1,692,295; Nov. 20.

Gerard, Charles S., Long Beach, Calif. Clothes hanger. 1,692,084; Nov. 20.

Geske, Carl, assignor to Winters & Crampton Manufacturing Company, Grand Rapids, Mich. Hinge. 1,692,032; Nov. 20.

Gilmour, William S. (See Lynch, J. M., and Gilmour.)

Gilson, Robert M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling apparatus. 1,692,647; Nov. 20.

Gingras, Edward F., Buffalo, N. Y. Belting. 1,691,968; Nov. 20.

Glatt, William E., and E. Hermann, Chicago, Ill. Shaper head for woodworking machinery. 1,691,927; Nov. 20.

Globe-Wernicke Company, The. (See Salt, Elmer H., assignor.)

Glover, William M., assignor, by mesne assignments, to Sunbar Manufacturing Company, Denver, Colo. Adjustable automobile awning. 1,691,969; Nov. 20.

Glück, Emil, Chemnitz, Germany. Mechanism for direct mechanical adjusting of the abutment for the thread guides on flat hosiery frames. 1,692,168; Nov. 20.

Godsey, French E., Bluefield, W. Va. Safety valve. 1,692,296; Nov. 20.

Goldberg, Solomon H. (See Orr, A. N., and Goldberg.)

Goldsmith, Gustave M., Cincinnati, and C. Bartels, assignors to The Mosler Safe Company, Hamilton, Ohio. Constructing vault or safe doors and the like. 1,692,550; Nov. 20.

Goldsmith, Louis, Brooklyn, assignor of one-half to S. R. Goldsmith, New York, N. Y. Lady's hand and underarm bag construction. 1,692,205; Nov. 20.

Goldsmith, Samuel R. (See Goldsmith, Louis, assignor.)

Goldstein, Abraham, New York, N. Y. Traveling case. 1,692,115; Nov. 20.

Gooch, Claiborne W., jr., assignor to United Cigarette Machine Co. Inc., Lynchburg, Va. Constant-level hopper for tobacco-feeding machines. 1,692,648; Nov. 20.

Good Inventions Co. (See Good, John, assignor.)

Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Engine-heating apparatus. 1,692,297; Nov. 20.

Goodridge, Gilbert W., Fairfield, and W. J. Gagnon, assignors to The Bead Chain Manufacturing Company, Bridgeport, Conn. Jump-ring coupling. 1,692,649; Nov. 20.

Graffin, Lewis, Springfield, Ohio, assignor to Ball Brothers Company, Muncie, Ind. Paper and paper stock and producing the same. 1,692,774; Nov. 20.

Graham, Maurice H. (See Carpenter, Francis W., assignor.)

Grant, Willis H. (See Wolcott, I. L., and Grant.)

Grasselli Dyestuff Corporation. (See Eichwede, H., Fischer, and Müller, assignors.)

Gray, James A., assignor to American Can Company, San Francisco, Calif. Cleat-making and cleat and handle assembling machine. 1,692,033; Nov. 20.

Greathouse, Lucien H., Clarendon, Va., assignor to Atmospheric Nitrogen Corporation, Syracuse, N. Y. Production of nitric acid from ammonia. 1,692,298; Nov. 20.

Great Northern Paper Company. (See Cram, Hervey G., assignor.)

Great Northern Paper Company. (See Malloy, M. J., and Buck, assignors.)

Green, Harrie C., Hubbardston, Mass. Statuette. Des. 76,928; Nov. 20.

Greene, Frederick J., et al. (See Wolf, John, assignor.)

Greenspan, Carl J., Philadelphia, Pa. Braid and making the same. 1,692,651; Nov. 20.

Greenwell, Nevil. (See Lukens, W. L., and Greenwell.)

Gregg, William L., assignor to The Fuller-Warren Company, Milwaukee, Wis. Range. 1,692,650; Nov. 20.

Greist, Hubert M., New Haven, Conn. Collapsible-tube holder. 1,692,116; Nov. 20.

Gremling, Joseph A. (See Newton, M. C., and Gremling.)

Grenier, Joseph O., Vancouver, British Columbia, Canada. Rope puller. 1,692,728; Nov. 20.

Greve, Paul, Lindau-on-the-Harz, Germany. Drying means for yarn-sizing machines. 1,692,373; Nov. 20.

Griffin, Percy M., assignor, by mesne assignments, to Consolidated Car-Heating Company, Inc., Albany, N. Y. Door engine. 1,692,034; Nov. 20.

Griffiths, William E., Flushing, N. Y. Window screen. 1,692,206; Nov. 20.

Griswold, Donald. (See Harwood, S. G., and Griswold.)

Griswold Manufacturing Company, The. (See Fromknecht, Bernard M., assignor.)

Grönvall, John G., Stockholm, Sweden. Internal-combustion engine with counterrunning pistons. 1,692,499; Nov. 20.

Grossi, Frank, Providence, R. I. Clock and time controlled switch for electric lights. 1,692,729; Nov. 20.

Gruss Air Spring Company of America. (See Gruss, Raymond L., assignor.)

Gruss, Raymond L., assignor, by mesne assignments, to Gruss Air Spring Company of America, San Francisco, Calif. Air spring. 1,692,035; Nov. 20.

Guenean, André. (See Vuillet, H. G. R., and Deschâtres, assignors.)

Gundelach, Emil C., New Rochelle, assignor of one-half to R. J. Ehlers, New York, N. Y. Internal-combustion engine. 1,692,730; Nov. 20.

Gunderson, Anton M., Ironwood, Mich. Window-sash holder. 1,692,731; Nov. 20.

Gurney, Frederic A., Worcester, Mass. Safety outlet valve for tank cars. 1,692,117; Nov. 20.

Gustafsson, Knut H. V., Gottenborg, Sweden. Rotary rust or scale cleaner. 1,692,500; Nov. 20.

Gustin-Bacon Manufacturing Company. (See Anderson, Harley E., assignor.)

Habhart, John G., Prairie du Chien, Wis. Cigarette clip. 1,692,652; Nov. 20.

Hachenberg, Louis, Throggs Neck, assignor of one-half to W. Brady, Ossining, N. Y. Window-cleaning device. 1,692,036; Nov. 20.

Haggart, John C., jr., Alma, assignor, by mesne assignments, to Detroit Patents Holding Company, Detroit, Mich. Propeller-shaft brake mechanism. 1,691,970; Nov. 20.

Hahn, Arthur M., (See Wrenn, Henry B. P., assignor.)

Hahn, Eugene. (See Edmondson, R. S., and Hahn.)

Halcolite Company. (See Lipsky, Norman, assignor.)

Hale, Francis E. (See Schlusselburg, George, assignor.)

Hall, Ernest A., assignor to The Hall Manufacturing Co., Toledo, Ohio. Grinding tool. 1,696,439; Nov. 20.

Hall, Harry E., Chicago, Ill. Ukulele. 1,692,207; Nov. 20.

Hall Manufacturing Co., The. (See Hall, Ernest A., assignor.)

Hall, Paul S., assignor of one-half to G. J. Voss, Austin, Minn. Electric-light socket and bulb base. 1,692,732; Nov. 20.

Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Pin extractor for forging machines. 1,692,264; Nov. 20.

Halliburton, Erle P., Los Angeles, Calif. Well-sounding device. 1,692,037; Nov. 20.

Hallock, William L., Los Angeles, Calif. Folding trailer boat. 1,692,208; Nov. 20.

Halpenny, Richard, Washington, D. C., assignor to De Forest Phonofilm Corporation, New York, N. Y. Slit block. 1,692,256; Nov. 20.

Halvorsen, Halbert B., Michigan City, Ind., assignor to Sullivan Machinery Company. Compressor. 1,692,268; Nov. 20.

Hamaker, Rex G., assignor of one-half to A. M. Bowman, Houston, Tex. Support. 1,692,209; Nov. 20.

Hancock, Horace G., assignor to North & Judd Manufacturing Company, New Britain, Conn. Belt buckle. 1,692,654; Nov. 20.

Hanks, George R., assignor to Taylor-Wharton Iron and Steel Company, High bridge, N. J. Dipper tooth. 1,692,501; Nov. 20.





Hansard, Charles S., and A. E. Netzel, Avant, Okla. Air and gas cleaner. 1,691,971; Nov. 20.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Mud guard for submarine drills. 1,692,440; Nov. 20.

Hansen, Klaus L., and W. J. Oesterlein, assignors of one-third to Northwestern Manufacturing Company, Milwaukee, Wis. Forming and welding end rings for rotor bars. 1,692,407; Nov. 20.

Hanson, Malcolm P., Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Communication system. 1,692,118; Nov. 20.

Hammer, Samuel, Brooklyn, N. Y. Metal receptacle. 1 692,653; Nov. 20.

Harding, Clyde R., Council Bluffs, Iowa. Flying horse. 1,692,655; Nov. 20.

Harding, Howard J., Paris, France. Carburetor. 1,692,299; Nov. 20.

Harding, Ray O., assignor of one-half to J. P. Corley, Rockford, Ill. Menu-card holder. 1,692,038; Nov. 20.

Harm, Rudolf, Berlin-Schoneberg, Germany. Suspension device for wall charts. 1,692,502; Nov. 20.

Harper, James G. (See Newman, S. F., and Harper.)

Harris, Blaine H., assignor to Brown & Bigelow, St. Paul, Minn. Thermometer. 1,692,551; Nov. 20.

Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electricity meter. 1,692,656; Nov. 20.

Hart & Cowley Manufacturing Company, The. (See Hart, Howard S., assignor.)

Hart, Howard S., assignor to The Hart & Cowley Manufacturing Company, New Britain, Conn. Ventilator thimble. 1,692,775; Nov. 20.

Hartford-Empire Company. (See Peiler, Karl E., assignor.)

Harvey, Tom, Middletown, Ohio. Paper and pulp making cylinder mold. 1,692,733; Nov. 20.

Harwood, Stanley G., and D. Griswold, Minneapolis, Minn., assignors to Ward-Love Pump Corporation, Rockford, Ill. Valve-operating mechanism. 1,692,776; Nov. 20.

Hasbrouck, Louis B. (See Mann, J. V., and Hasbrouck.)

Hasbrouck, Louis B., assignor to Eclipse Textile Devices, Inc., Elmira, N. Y. Bobbin support. 1,692,441; Nov. 20.

Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Car construction. 1,692,657; Nov. 20.

Haseltine, Stacy B., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Antifriction bearing. 1,692,658; Nov. 20.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Shock-absorbing mechanism. 1,692,659; Nov. 20.

Haslett, Warren W., Baltimore, Md. Blowtorch. 1,692,734; Nov. 20.

Haughton Elevator & Machine Company, The. (See Bourgeois, Clarence H., assignor.)

Hawley, Charles G., Chicago, Ill. High-pressure steam boiler. 1,692,442; Nov. 20.

Hayden, Robert P., Highland Park, assignor to Johnson & Johnson, New Brunswick, N. J. Dispensing surgical plaster. 1,692,503; Nov. 20.

Hayden, Robert P., assignor to Johnson & Johnson, New Brunswick, N. J. Packaging surgical napkins. 1,692,504; Nov. 20.

Hayes, Harvey C., Washington, D. C. Measuring distance. 1,692,119; Nov. 20.

Hayward Company, The. (See Atkinson, Herbert S., assignor.)

Hazeltine Corporation. (See Hazeltine, Louis A., assignor.)

Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Wave signaling system. 1,692,257; Nov. 20.

Heald Machine Company, The. (See Kempton, H. E., Gallimore, and Woytych, assignors.)

Healthometer Company. (See Weber, Mathias J., assignor.)

Hebbard, William B., Trumansburg, N. Y. Bagholder. 1,692,443; Nov. 20.

Hedwig Mfg. Co. (See Wenzel, Carl E., assignor.)

Heintz, George W., New Orleans, La. Rabbit-carrying truck for greyhound racing. 1,692,736; Nov. 20.

Heitel, Harry and J., assignors of one-half to H. Jacobson, New York, N. Y. Vanity case. 1,692,300; Nov. 20.

Heitel, Joseph. (See Heitel, Harry and J.)

Heger, Björn, Vestre Aker, near Oslo, Norway. Electromotor. 1,692,735; Nov. 20.

Hemming, John S., assignor to Fidelity Radio Corporation, Salt Lake City, Utah. Base for loud-speaker units. 1,692,737; Nov. 20.

Hendrickson, Ira E. (See Brown, P., and Hendrickson.)

Henkel, Frank N., Hammond, La. Container for cooling bottled liquids. 1,692,738; Nov. 20.

Hennessy, James J., New York, N. Y. Lubricator. 1,692,258; Nov. 20.

Hermann, Ernst. (See Glatt, W. E., and Hermann.)

Heslewood, William R., assignor of one-half to F. A. Dana, Los Angeles, Calif. Thermal indicator. 1,692,301; Nov. 20.

Hessemer, Albert O., Fullerton, Calif. Well-capping device and controlling head. 1,692,302; Nov. 20.

Heys, George H., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on filler pieces for shoes. 1,692,259; Nov. 20.

Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)

Hickok Manufacturing Company. (See Mix, E. S., and Whitehouse, assignors.)

Higgins, Edward W. (See James, Thomas J., assignor.)

Highway Safety Barrier Company. (See Strauss, Joseph B., assignor.)

Hill, Richard D., and W. W. Foster, Wichita Falls, Tex. Fishing-tool guide. 1,691,972; Nov. 20.

Hill, William H., Canton, Ohio. Internal-combustion engine. 1,692,339; Nov. 20.

Hinz, William H., Oak Park, Ill. Filler for radiator pans. 1,692,039; Nov. 20.

Hirschl, Marcus A., Chicago, Ill., assignor to National-Standard Company, Niles, Mich. Jack. 1,692,444; Nov. 20.

Hobbs, John W., assignor to A. O. Norton, Inc., Boston, Mass. Lifting jack. 1,692,169; Nov. 20.

Hobbs, John W., Moline, assignor to G. W. Borg, Chicago, Ill. Electric motor. 1,692,408; Nov. 20.

Hobbs, John W., Moline, assignor to G. W. Borg, Chicago, Ill. Oscillating motor. 1,692,409; Nov. 20.

Hoffman, Jacob, Memphis, Tenn. Shoe-polishing machine. 1,692,120; Nov. 20.

Hoffman, Ernst, Vienna, Austria. Reenforcement bar for concrete steel and manufacturing the same. 1,692,505; Nov. 20.

Hoffman, William T., La Grange, assignor to Beckman-Dawson Roofing Co., Chicago, Ill. Apparatus for producing roofing elements and product thereof. 1,692,210; Nov. 20.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,692,261; Nov. 20.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,692,263; Nov. 20.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,692,266; Nov. 20.

Holdsworth, Fred D., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-controlling mechanism. 1,692,267; Nov. 20.

Holland, Martin, Laurens, Iowa. Weed-destroying attachment for railway cars. 1,692,739; Nov. 20.

Hollis, Joseph, Canton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Trolley mechanism. 1,691,973; Nov. 20.

Holmes, Grant, Danville, Ill., assignor to The Marion Steam Shovel Company, Marion, Ohio. Truck. 1,692,121; Nov. 20.

Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,692,260; Nov. 20.

Hope, Vernon, Macclesfield, England. Electric fuse. 1,692,445; Nov. 20.

Horni, Paul P., Newark, N. J. Lens. 1,692,303; Nov. 20.

Howell, Frank B., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Boiler. 1,692,122; Nov. 20.

Howell, Ulysses N., Rome, Ga. Stove. Des. 76,930; Nov. 20.

Huber, Albert C., Zurich, Switzerland. Hat. 1,692,740; Nov. 20.

Huefner, Joseph, Buffalo, N. Y., assignor to City Dairies Company, St. Louis, Mo. Advertising signs. Des. 76,929; Nov. 20.

Hughes, Claude W., Odessa, Tex. Pumping mechanism. 1,692,304; Nov. 20.

Hühn, Gustav. (See Bangert, H., and Hühn.)

Hulburt, Harvey L., Monrovia, assignor to Murray California Food Products Inc., Azusa, Calif. Dried marmalade and producing the same. 1,692,040; Nov. 20.

Hull, Vade, Great Falls, Mont. Harp. 1,692,123; Nov. 20.

Hume, James H., Glasgow, Scotland. Steam-generating plant. 1,692,660; Nov. 20.

Humphrey Company, The. (See Scott, Dudley H., assignor.)

Hurley, William M., Brockton, Mass. Shoe and arch support therefor. 1,691,974; Nov. 20.

Hürlimann, Rudolf, St. Gallen, Switzerland. Switch arrangement for electric-light installations and the like. 1,692,124; Nov. 20.

Hurst, William, Winnipeg, Manitoba, Canada. Electric heater. 1,692,741; Nov. 20.

Hutchinson Co. (See Routledge, G., and Norling, assignors.)

Hutchinson, Glen N., Montclair, N. J., and G. S. Carden, assignors to International Time Recording Company of New York, Endicott, N. Y. Nibbling machine. 1,691,928; Nov. 20.

Hutto, Marsden C., Detroit, Mich. Combined abrasive and carrier. 1,692,661; Nov. 20.

Hyman, Thomas M., Montreal, Quebec, Canada. Car ventilator. 1,692,125; Nov. 20.

I. G. Farbenindustrie Aktiengesellschaft. (See Pistor, G., and Borsbach, assignors.)

Ideal Oil Saver Company. (See Lochen, Frank J., assignor.)

Imhoff, Karl, Essen, Germany. Heatable sludge-digestion chamber for sewage treatment. 1,692,446; Nov. 20.

Impactograph Corporation. (See Baskerville, John B., assignor.)

Imperial Brass Manufacturing Company, The. (See Dorsey, Parmer, assignor.)

Independent Lock Company. (See Logg, Wendell, assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
International Combustion Engineering Corporation. (See Packard, Edwin A., assignor.)
International Combustion Engineering Corporation. (See Wiebe, Sigurd J. A., assignor.)
International Controlled Lamp Company, The. (See Keck, George S., assignor.)
International Motor Company. (See Froesch, Charles, assignor.)
International Motor Company. (See Josephs, Lyman C., jr., assignor.)
International Motor Company. (See Jupp, William B., assignor.)
International Shoe Company. (See Copeland, William A., assignor.)
International Time Recording Company of New York. (See Hutchinson, G. N., and Carden, assignors.)
Irwin, Justice C., Minneapolis, Minn., assignor, by mesne assignments, to Stanton Home Safe Company, Chicago, Ill. Locking device. 1,691,975; Nov. 20.
Isaacs, Darrell W., Redfern, New South Wales, Australia. Collapsible luggage-carrying attachment for use with motor and other vehicles. 1,692,085; Nov. 20.
Isham, Robert M., Okmulgee, Okla., assignor to Doherty Research Company, New York, N. Y. Ethyl-alcohol substitute and making same. 1,692,602; Nov. 20.
Ives, Martin A. (See Ives, William G. and M. A.)
Ives, William G. and M. A., Chicago, Ill. Sectional garbage and refuse receptacle. 1,692,170; Nov. 20.
Jackson, George P., Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Pulverized-fuel-burning apparatus. 1,691,929; Nov. 20.
Jacobs, Charles F., Brooklyn, N. Y. Place indicator for tables. 1,692,742; Nov. 20.
Jacobson, Harry. (See Heitel, Harry and J., assignors.
Jacobus, David S., Jersey City, N. J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,692,171; Nov. 20.
Jacobus, George R., Hawthorne, N. J. Inflatable game ball. 1,692,303; Nov. 20.
Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of naphthalene. 1,692,126; Nov. 20.
Jaeger, Gebhard, Columbus, Ohio. Hopper concrete mixer. 1,692,374; Nov. 20.
Jakobsen, Jens P. H., Odense, Denmark. Self-sharpening plowshare. 1,692,086; Nov. 20.
James, Thomas J., Buckner, assignor of one-half to E. W. Higgins, Crewe, Va. Clothesline. 1,692,743; Nov. 20.
Janisch, John L., Chicago, Ill. Mold for vaults and the like. 1,692,447; Nov. 20.
Janos, Peter. (See Dicomes, J., and Janos.)
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,931; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,932; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,933; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,934; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,935; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,936; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,937; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,938; Nov. 20.
Jennings, James W., Providence, R. I., assignor to Quaker Silver Company, Attleboro, Mass. Salt or pepper shaker or similar article. Des. 76,939; Nov. 20.
Jensen, Aage, Los Angeles, Calif. Apparatus for treating liquids. 1,692,270; Nov. 20.
Jensen, Olaf F., Council Bluffs, Iowa. Fluid brake for rotating shafts. 1,692,801; Nov. 20.
Jessop, George A., assignor to S. Morgan Smith Company, York, Pa. Plate-sheet-steel turbine frame. 1,692,211; Nov. 20.
Jessop, George A., assignor to S. Morgan Smith Company, York, Pa. Plate-sheet-steel turbine frame. 1,692,212; Nov. 20.
Jewell, Theodore E., Newton, assignor to Waltham Rag and Paper Company, Waltham, Mass. Paper laundry bag. 1,692,777; Nov. 20.
Johnson & Johnson. (See Hayden, Robert P., assignor.)
Johnson, Richard M., Red Bank, N. J. Submarine safety device. 1,692,506; Nov. 20.
Johnson-Williamson Laboratories, Inc. (See Polydoroff, Wladimir J., assignor.)
Jones, Frederick R., Chicago, Ill. Garbage and refuse incinerator. 1,692,448; Nov. 20.
Jones, Harold H., assignor to Kalamazoo Vegetable Parchment Company, Kalamazoo, Mich. Package for cigars, candy, and the like. 1,692,410; Nov. 20.
Jones, James M., Manchester, Ky., assignor of twenty-seven and one-half per cent to R. A. Kennedy, Hamilton, and twelve and one-half per cent to R. C. Kennedy, Cincinnati, Ohio. Metal wheel. Re17,140; Nov. 20.
Joseph, Theodore H., assignor to The Silent Watchman Corporation, New York, N. Y. Double lock for doors. 1,692,663; Nov. 20.
Josephs, Lyman C., jr., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Pressure-relief valve for fluid pumps. 1,692,375; Nov. 20.
Judelson, Louis, New York, N. Y. Drier cabinet. 1,692,271; Nov. 20.
Jupp, William B., assignor to International Motor Company, New York, N. Y. Railway-car body. Des. 76,940; Nov. 20.
Jupp, William B., assignor to International Motor Company, New York, N. Y. Car-body construction. 1,692,377; Nov. 20.
Jupp, William B., Brooklyn, assignor to International Motor Company, New York, N. Y. Generator-fan construction. 1,692,376; Nov. 20.
Kalamazoo Vegetable Parchment Company. (See Jones, Harold H., assignor.)
Kaplan, Max, Passaic, N. J. Motor-driven brush. 1,692,744; Nov. 20.
Karget, David, Milwaukee, Wis. Cap. Des. 76,941; Nov. 20.
Karn, Harry W., Pittsburgh, Pa. Artificial limb. 1,692,552; Nov. 20.
Kassner, Ernst, Berlin, Germany. Check issuing and adding machine. 1,692,411; Nov. 20.
Keck, George S., Pasadena, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del. Dirigible headlight for automobiles and the like. 1,692,172; Nov. 20.
Keck, George S., Pasadent, Calif., assignor to The International Controlled Lamp Company, Wilmington, Del. Dirigible headlight. 1,692,173; Nov. 20.
Keens, James A., and J. L. Sharkey, Hutchinson, Kans. Device for testing automobile tire inner tubes. 1,692,378; Nov. 20.
Keeney, Don E., assignor to A C Spark Plug Company, Flint, Mich. Lamp mounting for instrument panels. 1,692,449; Nov. 20.
Keim, William C. (See Weaver, G. E., and Keim.)
Keith, Geo. E., Company. (See Wilkins, George H., assignor.)
Keller, Eva, Pasadena, Calif. Voice placer. 1,692,174; Nov. 20.
Kellogg, Spencer, and Sons, Inc. (See Schwarcman, Alexander, assignor.)
Kemp, William W., Baltimore, Md. Treating bone black or char. 1,692,745; Nov. 20.
Kempton, Herbert E., Chicago, Ill., and K. F. Gallimore and R. M. Woytych, Fond du Lac, Wis., assignors, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Workholder. 1,692,379; Nov. 20.
Kennedy, Ralph A., et al. (See Jones, James M., assignor.)
Kennedy, Richard C., et al. (See Jones, James M., assignor.)
Kennedy, William, & Sons, Limited, The. (See Keon, James J., assignor.)
Keon, James J., assignor to The William Kennedy & Sons, Limited, Owen Sound, Ontario, Canada. Emergency closure for hydraulic intakes. 1,692,127; Nov. 20.
Keough, W. E., Company. (See Eklund, Karl, assignor.)
Kersten, Julius, Bensheim, Germany. Furnace for the decomposition of alkali-metal chlorides. 1,692,175; Nov. 20.
Kielberg, Henry, Martins Ferry, Ohio. Coiling key for collapsible tubes. 1,692,213; Nov. 20.
Kilborn, Karl B., Fairlawn, Ohio, assignor to Seiberling Rubber Company. Producing tire flaps. 1,692,128; Nov. 20.
Kimball, Clarence M., Atlanta, Ga. Window sign holder. 1,692,450; Nov. 20.
King, George A., assignor to Scovill Manufacturing Company, Waterbury Conn. Hinged pin fastener. 1,692,778; Nov. 20.
Kingsbury, George P., Hollis, N. Y., assignor to Mergenthaler Linotype Company. Typographical machine. 1,692,214; Nov. 20.
Kingsley, Charles B., Clairton, Pa. Apparatus for controlling molten-glass flow. 1,692,306; Nov. 20.
Kinney, George C., Bishop, Calif. Fish screen. 1,692,451; Nov. 20.
Kirkham, Joseph E., Topeka, Kans., assignor to Koehring Company, Milwaukee, Wis. Skimmer-scoop crane. 1,692,452; Nov. 20.
Kirsch, Michael, Milwaukee, Wis. Multiple-unit single-control extension staging. 1,692,664; Nov. 20.
Kirschbraun, Lester, Chicago, Ill. Motor fuel and making same. 1,692,176; Nov. 20.
Klein, James J., New York, N. Y. Combined cigarette and vanity case. 1,692 041; Nov. 20.
Kline, David A. (See Puckett, William H., assignor.)
Kline, Fred J., New York, N. Y. Paper-perforating device. 1,692,779; Nov. 20.
Kline, Fred J., Bayville, N. Y. Lock for paper fasteners. 1,692,780; Nov. 20.
Knaster, Leon, Union City, N. J. Cabinet desk. 1,692,665; Nov. 20.





Knauf, Paul W., Cynwyd, Pa., assignor to Schutte and Koerting Company, Philadelphia, Pa. Gate valve. 1,692,177; Nov. 20.
Knobel, Eugen. (See Knobel, Reinhard and E.)
Knobel, Reinhard and E., St. Gall, Switzerland, assignors to C. Walter, Cernay, Haut Rhin, France. Power loom. 1,692,307; Nov. 20.
Knopp, Henry. (See Woerfel, R. A., and Knopp.)
Knorpp Candy Company. (See Knorpp, William W., assignor.)
Knorpp, William W., Brooklyn, assignor to Knorpp Candy Company, New York, N. Y. Marshmallow candy. Des. 76,942; Nov. 20.
Koehring Company. (See Kirkham, Joseph E., assignor.)
Koenig, Lloyd R., St. Louis, Mo. Gyroscopic speed indicator. 1,692,412; Nov. 20.
Kohlenscheidungs-Gesellschaft m. b. H. (See Cantieny, Georg., assignor.)
Koizumi, Masutaro, Prosser, Wash. Toy game target. 1,692,042; Nov. 20.
Koons, Charles V., assignor to American Engineering Company, Philadelphia, Pa. Hydraulic steering gear. 1,692,666; Nov. 20.
Kramer, Samuel, Newark, N. J. Ladder. 1,691,976; Nov. 20.
Kremski, Franz and H. Siemering, New York, N. Y. Tie fastener. 1,692,043; Nov. 20.
Krimke, Jerome P., Newark, N. J. Toy horse. 1,692,667; Nov. 20.
Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile lock means. 1,692,668; Nov. 20.
La Chapelle, Euclid I., Brockton, assignor to C. C. Blake, Incorporated Boston, Mass. Inseam-sewing machine. 1,692,453; Nov. 20.
Laclede Steel Company. (See Young, Lafayette, assignor.)
La France, Richard, assignor to The Owens Bottle Company, Toledo, Ohio. Glass-feeding mechanism. 1,692,553; Nov. 20.
Lamb, Joseph F., and J. F. Smart, assignors to Landers, Frary & Clark, New Britain, Conn. Electric heating device. 1,692,781; Nov. 20.
Lambrette, Aubin Membac-Dolhain, Belgium. Machine for drying fabrics and papers in an endless web. 1,692,129; Nov. 20.
Lamontagne, Frédéric, Montreal, Quebec, Canada. Pneumatic action for pipe organs. 1,692,507; Nov. 20.
Lampl, Alfred, Berlin-Halensee, Germany. Supplemental resistance for serially-mounted lamps. 1,692,272; Nov. 20.
Landers, Frary & Clark. (See Lamb, J. F., and Smart, assignors.)
Landis Machine Company. (See Newman, S. F., and Harper, assignors.)
Lane, Susie T., San Diego, Calif. Candle. Des. 76,943; Nov. 20.
Lasker, William W., Brooklyn, assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Zero-shutter control for printing tabulators. 1,692,215; Nov. 20.
Last, Erwin, Vienna, Austria. Electrode to be applied to the human body. 1,692,669; Nov. 20.
Latham Machinery Company. (See Leschhorn, Ernest, assignor.)
Latham Machinery Company et al. (See Wolf, John, assignor.)
Latham Machinery Company. (See Wolf, J., and Leschhorn, assignors.)
Lattin, Robert B., West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Mold for musical-instrument bodies or similar articles. 1,692,340; Nov. 20.
Leach, Clarence W. (See Leach, William, assignor.)
Leach, Norman W., administrator, et al. (See Leach, William.)
Leach, William, deceased; N. W. Leach, administrator, Moose Jaw, Saskatchewan, assignor of one-half to C. W. Leach, Ottawa, Ontario, Canada. Flagman's kit. 1,692,746; Nov. 20.
Lee, O. Ivan. (See Orelup, J. W., and Lee.)
Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Reverse-current cut-out for vehicle lighting and battery-charging systems. 1,692,216; Nov. 20.
Leece-Neville Company, The. (See Leece, Bennett M., assignor.)
Leininger, Ivan E. (See Caps, A. W., and Leininger.)
Leiter, Friedrich F., assignor to Josef Leiter Fabrik Chirurgischer Instrumente, Vienna, Austria. Device for illuminating all kinds of hollow members. 1,692,554; Nov. 20.
Leiter, Josef, Fabrik Chirurgischer Instrumente. (See Leiter, Friedrich F., assignor.)
Le Mesurier, Louis J., Belmont, England. Apparatus for storing fluid under pressure. 1,692,670; Nov. 20.
Lenning, Alvar, Newburgh, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,692,791; Nov. 20.
Leschhorn, Ernest. (See Wolf, J., and Leschhorn.)
Leschhorn, Ernest, Chicago, Ill., assignor to Latham Machinery Company. Stitching machine. 1,692,015; Nov. 20.
Le Tang, Leo R., Cincinnati, Ohio. Combined frame and casing for punching machines. Des. 76,944; Nov. 20.
Levi, Louis, Winthrop, Mass. Window screen. 1,691,977; Nov. 20.
Levy, Joseph, Brooklyn, N. Y. Apparatus for perforating inscrptions, ornamentations, or the like on sheet material. 1,692,454; Nov. 20.
Lewis, George S., Springfield, Mass. Air pistol or gun. 1,692,555; Nov. 20.
Lewis, William T., assignor to Western Coil & Electrical Company, Racine, Wis. Therapeutic lamp. 1,692,413; Nov. 20.
Libbey-Owens Sheet Glass Company, The. (See Blair, James C., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Brown, Wilbur F., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Ferngren, Enoch T., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Mambourg, Nestor, assignor.)
Libbey-Owens Sheet Glass Company, The. (See Reece, Joseph A., assignor.)
Libby, Tyng M. (See Tolmie, J. R., and Libby.)
Liedtke, Arthur J., West Allis, and C. J. Travers, Port Washington, Wis., assignors to Beeman Tractor Company, Minneapolis, Minn. Clutch. 1,691,978; Nov. 20.
Lillibridge, Harry D., Zanesville, Ohio, assignor to American Encaustic Tiling Company, Ltd., New York, N. Y. Screen-feeding means for tile-cleaning machines. 1,692,556; Nov. 20.
Lindstrom, Carl G., assignor to Rice, Barton & Fales, Inc., Worcester, Mass. Calender doctor. 1,692,747; Nov. 20.
Lippert, Aloysius C., Kenosha, Wis., assignor to The Norlipp Company, Chicago, Ill. Radiator-cap-latching device. 1,692,178; Nov. 20.
Lippert, Aloysius C., Kenosha, Wis., assignor to The Norlipp Company, Chicago, Ill. Latching device for radiator caps. 1,692,179; Nov. 20.
Lipsky, Norman, New York, N. Y., assignor to Halcolite Company, Inc. Candle cup or article of analogous nature. Des. 76,945; Nov. 20.
Lischke, John B., Lancaster, Ky. Vault-door safety device. 1,692,044; Nov. 20.
Lloyd, E. E., Paper Co. (See Gailer, Louis, assignor.)
Loafea, Samuel, Oakland, Calif. Air-tight heater. 1,692,180; Nov. 20.
Lochen, Frank J., Chicago, Ill., assignor to Ideal Oil Saver Company. Baffle plate for boiler flues. 1,691,979; Nov. 20.
Locke, Clara H., Plainfield, N. J. Eyelash curler. 1,692,341; Nov. 20.
Locke, Edwin A., jr., Arlington, Mass., assignor to The Nevins Church Press, New York, N. Y. Display stand. 1,692,748; Nov. 20.
Logan, Byron E. (See Skaggs, C. E., and Logan.)
Logg, Wendell, Los Angeles, Calif., assignor to Independent Lock Company, Fitchburg, Mass. Keyhole lock. 1,692,671; Nov. 20.
Long, William B., Chicago, and L. Sliwa, Cicero, assignors to Union Special Machine Company, Chicago, Ill. Feeding mechanism for stocking-seaming machines. 1,692,130; Nov. 20.
Longyear, E. J., Manufacturing Company. (See Anderson, Olof B., assignor.)
Lonsway, Herve A., Berwick, Ohio. Shears for cutting jar rings and similar circular washers. 1,691,980; Nov. 20.
Loomis, Howard W. (See Barrier, William C., assignor.)
Loosley, Henry R., East St. Louis, Ill. Beverage dispensing and cooling box. 1,692,672; Nov. 20.
Lotz, Alfred F. C., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Switch-operating mechanism. 1,692,045; Nov. 20.
Lounsbury, Harvey J., Glen Ellyn, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,692,273; Nov. 20.
Louth, Maurice E. (See Young, A. W., and Louth.)
Lukens, William L., and N. Greenwell, Bethlehem, Pa., assignors to Bethlehem Steel Company. Detonating fuse. 1,692,455; Nov. 20.
Lurry, Abner J., New Orleans, La. Drier. 1,692,749; Nov. 20.
Lynch, John M., Oakville, and W. S. Gilmour, assignors to Blake & Johnson Company, Waterbury, Conn. Machine for feeding headed blanks. 1,692,456; Nov. 20.
Macfie, William L. (See Andrew, N. P., Macfie, and Rose.)
Machris, Alfred P., Los Angeles, Calif. Oil-well packer. 1,692,181; Nov. 20.
Mackin, Charlotte K. (See Mackin, James F., assignor.)
Mackin, James F., assignor to C. K. Mackin, Chicago, Ill. Hatch cover. 1,692,782; Nov. 20.
Magid, Harry M., Chicago, Ill. Canopy for automobile windows. 1,692,457; Nov. 20.
Magnetic Mfg. Co. (See Stearns, Roswell H., assignor.)
Magnetic Separator Company. (See Bethke, John P., assignor.)
Maintenance Equipment Company. (See Overmier, Emmons, assignor.)
Malinowski, Harry A., assignor to Frank M. Whiting & Company, North Attleboro, Mass. Spoon or like article. Des. 76,946; Nov. 20.
Malloy, Michael J., and E. A. Buck, assignors to Great Northern Paper Company, Millinocket, Me. Device for removing caps from paper cores. 1,692,274; Nov. 20.
Malone, James G. (See Dormer, J. A., and Malone.)

Marbourg, Nestor, Lancaster, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass apparatus. 1,692,673; Nov. 20.

Manell Building Block & Tile Company, The. (See Eisenmann, John, assignor.)

Mann, John V., and L. B. Hasbrouck, Elmira, assignors to Eclipse Textile Devices, Inc., Elmira Heights, N. Y. Bobbin support. 1,692,458; Nov. 20.

Mann, John V., and L. B. Hasbrouck, Elmira, assignors to Eclipse Textile Devices, Inc., Elmira Heights, N. Y. Bobbin support. 1,692,459; Nov. 20.

Mapel, George, Seattle, Wash. Trolling spoon. 1,692,674; Nov. 20.

Marathon Paper Mills Company. (See Merrin, Samuel A., assignor.)

Marbelite Corporation of America. (See Barkschat, Henry, assignor.)

Marion Steam Shovel Company, The. (See Holmes, Grant, assignor.)

Markham, Charles M., Indianapolis, Ind. Column clamp. 1,692,675; Nov. 20.

Marr, William P., Toronto, Ontario, Canada. Electric wire connecter. 1,692,414; Nov. 20.

Marran, Vincent P., Holyoke, Mass. Tractor-driven scraper. 1,692,750; Nov. 20.

Marsh, Herbert R., Philadelphia, assignor of one-half to D. F. Ryan, Kirklyn, Pa.; Mutual Trust Company of Philadelphia, executor of said D. F. Ryan, deceased. Method of and apparatus for burning liquid fuel. 1,692,557; Nov. 20.

Marsh, Howard E., Lompoc, Calif., assignor to J. F. Frick and E. J. Talbott, trustees. Fluid-pressure brake. 1,692,676; Nov. 20.

Martin, Robert E., Crozet, Va. Fruit-packing device. 1,692,677; Nov. 20.

Martin, Wilbert L., Tulsa, Okla. Well flowing device. 1,692,131; Nov. 20.

Martz, Morris L., New York, N. Y. Thread-supporting device. 1,692,132; Nov. 20.

Marvel Equipment Company, The. (See Spaeth, Charles, assignor.)

Mathe, Vincent. (See Babitzky, S., and Mathe.)

Matthew, Francis H., M. A. Broadbere, and F. C. B. Vosgerau; said Vosgerau assignor of his right to L. H. Barfknecht, Venice, Calif. Current-conducting apparatus. 1,692,087; Nov. 20.

Mattison, Carl L., assignor to Mattison Machine Works, Rockford, Ill. Detachable bearing head for cutter shafts and the like. 1,692,460; Nov. 20.

Mattison Machine Works. (See Mattison, Carl L., assignor.)

May, Frederick T., Montclair, N. J., assignor to Westinghouse Lamp Company. Electron-emission device. Des. 76,947; Nov. 20.

Mayer, Frank, assignor to Milwaukee Saddlery Company, Milwaukee, Wis. Inserting tubular rivets. 1,692,182; Nov. 20.

Mayol, Frank E., Franconia, N. H. Magazine lead pencil. 1,692,981; Nov. 20.

McAvoy, Daniel E., Long Island City, N. Y. Building construction. 1,692,508; Nov. 20.

McBee Binder Co., The. (See Welk, Nelson S., assignor.)

McBride, Arthur C., and F. W. Renworth, assignors of one-third to C. H. E. Remondino, San Diego, Calif. Automobile engine-hood retaining and locking means. 1,692,558; Nov. 20.

McCarty, Thomas E., and H. E. Salisbury, Oakland, Calif. Storage battery. 1,692,217; Nov. 20.

McClave, Bernard D. (See McClave, Stephen W., jr., R. P., and B. D.)

McClave, Roscoe P. (See McClave, Stephen W., jr., R. P., and B. D.)

McClave, Stephen W., jr., R. P., and B. D., Cliffside, N. J. Sewer boat. 1,692,133; Nov. 20.

McClond, Edward H., Columbus, assignor to The Central Brass and Fixture Company, Springfield, Ohio. Bumper. 1,692,751; Nov. 20.

McComsey, Thomas H., Los Angeles, Calif. Electrical connection. 1,692,678; Nov. 20.

McDonald, John J., Elizabethton, Tenn. Dressing cabinet. Des. 76,948; Nov. 20.

McGee, Frank R., Steubenville, Ohio. Open-hearth furnace. 1,691,982; Nov. 20.

McGoogan, Lee L., St. Pauls, N. C. Display and storage rack. 1,692,679; Nov. 20.

McGowen, William R., McKees Rocks, assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,692,088; Nov. 20.

McGraw Electric Company. (See Osterheld, Clark M., assignor.)

McIlvaine, John H., Lake Forest, Ill. Valve mechanism for oil burners and the like. 1,692,046; Nov. 20.

McIntosh, Roy E., New York, assignor to J. E. Ogden, Mountainville, N. Y. Clamp. 1,692,218; Nov. 20.

McKenna Brass and Manufacturing Company. (See Shields, P. W., and Blenko, assignors.)

McKenzie, Peter, Chicago, Ill. Furnace wall. 1,692,134; Nov. 20.

McKinney, Francis B., assignor to The Parella Corporation, Pittsburgh, Pa. Umbrella. 1,692,461; Nov. 20.

McKinney, Francis B., assignor to The Parella Corporation, Pittsburgh, Pa. Umbrella. 1,692,462; Nov. 20.

McKinnon, Archibald L., St. Catharines, Ontario, Canada, assignor to The Columbus-McKinnon Chain Company, Tonawanda, N. Y. Tire-chain fastener. 1,692,752; Nov. 20.

McLaughlin, John E., assignor to The Owens Bottle Company, Toledo, Ohio. Machine for forming glass articles. 1,692,680; Nov. 20.

McManus, Charles E., assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Building slab and making same. 1,692,783; Nov. 20.

McPhail, Malcolm E., Cohoes, N. Y. Cap shooter. 1,692,089; Nov. 20.

Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 76,949; Nov. 20.

Medveczky, Ladislaw, Rakoshegy, Hungary. Envelops and other article of paper. 1,692,219; Nov. 20.

Mengel Company. (See Turner, Joseph O., assignor.)

Mergenthaler Linotype Company. (See Kingsbury, George P., assignor.)

Merki, Werner, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of physiologically-active substances from organs. 1,692,509; Nov. 20.

Merrill, Hamilton, South Orange, N. J., assignor to Tower Manufacturing Co., Inc. Purification of nitraniline. 1,692,308; Nov. 20.

Merrin, Samuel A, Chicago, Ill., assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis. Dispenser for paper napkins and the like. 1,692,463; Nov. 20.

Metal Artcraft Fixture Co. (See Sobl, Frank, assignor.)

Metropolitan Lamp Co. (See Zweig, Joseph, assignor.)

Metropolitan-Vickers Elctrical Company Limited. (See Robinson, Ernest Y., assignor.)

Meyer, Christian, New York, N. Y. Swimming device. 1,692,753; Nov. 20.

Meyer-Gaus, Karl, Barmen, Germany, assignor to American Bemberg Corporation, New York, N. Y. Yarn reel, more particularly for the winding of freshly-spun artificial silk. 1,692,415; Nov. 20.

Miles, John C., Bonners Ferry, Idaho. Bottle cap. 1,692,183; Nov. 20.

Millen, James R., Flint, Mich. Baby cart. 1,692,135; Nov. 20.

Miller, Eseck C., Newark, N. J., assignor, by mesne assignments, to Racine Confectioners Machinery Company, Racine, Wis. Candy-making machine. 1,692,559; Nov. 20.

Miller, Frank P., Meadville, Pa. Rotary cutter. 1,691,983; Nov. 20.

Miller, Frank P., Chicago, Ill. Railway-crossing guard. 1,692,184; Nov. 20.

Miller, John M., assignor of one-half to F. C. Richardson, Detroit, Mich. Electric switch. 1,691,984; Nov. 20.

Miller, Juanita, Oakland, Calif. Doll. Des. 76,950; Nov. 20.

Miller, Morrell E., Warren, Ohio. Tractor. 1,692,342; Nov. 20.

Miller, Paul, Pittstown, assignor of one-third to F. C. Claessens, Troy, N. Y. Spark plug. 1,692,754; Nov. 20.

Millring, Laura L., New York, N. Y. Dressing-table toilet article. 1,692,309; Nov. 20.

Millring, Laura L., New York, N. Y. Toilet article. 1,692,310; Nov. 20.

Mills Novelty Company. (See Petersen, Oscar, assignor.)

Milton Weaving Company. (See Ward, John C., assignor.)

Milwaukee Saddlery Company. (See Mayer, Frank, assignor.)

Miner, Walter, Seattle, Wash. Track brake. 1,692,090; Nov. 20.

Miner, W. H., Inc. (See Erickson, Frederick F., assignor.)

Miner, W. H., Inc. (See Hascltine, Stacy B., assignor.)

Miner, W. H., Inc. (See Lounsbury, Harvey J., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Minutillo, Micheal, Holyoke, Mass. Shoe and arch preserver. 1,692,510; Nov. 20.

Mishawaka Rubber and Woolen Manufacturing Company. (See Blair, George W., assignor.)

Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Strap connection. 1,692,511; Nov. 20.

Mix, Edwin S., and J. R. Whitehouse, assignors to Hickok Manufacturing Company, Inc., Rochester, N. Y. Beveling machine for strip material. 1,692,755; Nov. 20.

Mokrejs, John, New York, N. Y. Stopping mechanism for stringed musical instruments. 1,693,560; Nov. 20.

Möller, Carl F., Oslo, Norway. Potato digger and separator. 1,692,343; Nov. 20.

Monitor Controller Company. (See Whittingham, George H., assignor.)

Monsees, Cuban, A., Brownsville, Tex. Shoe rack. 1,692,681; Nov. 20.

Monson, Axel, assignor to Universal Stamping & Mfg. Co., Chicago, Ill. Ejector for coin-handling machines. 1,692,561; Nov. 20.

Montgomery, Alvin E., Oak Park, Ill. Paper drying and apparatus therefor. 1,691,930; Nov. 20.

Montreuil, Frank H., Chicago, Ill., assignor to Warren Webster & Company. Apparatus for cooking and other purposes. 1,692,682; Nov. 20.

Moon, O. P., administrator. (See Wrenn, Henry B. P.)

Moore, George N., New York, N. Y. Hydro teeth cleanser. 1,692,047; Nov. 20.





Moran, Daniel E., sr., Monrovia, Calif. Wheel felly. 1,692,344; Nov. 20.

Moran, Robert C., Woodbury, N. J., assignor to Vacuum Oil Company, New York, N. Y. Desulphurizing hydrocarbon oils. 1,692,756; Nov. 20.

Morimura Bros. Inc. (See Tomita, Urasaburo, assignor.)

Morrison, John A. Mansfield, Ohio. Lifting jack. 1,692,345; Nov. 20.

Morton, Woolridge B., New York, N. Y. Railway car. 1,692,683; Nov. 20.

Mortus, Benjamin H., assignor to The National Screw and Manufacturing Company, Cleveland, Ohio. Hopper feed for metal-working machines. 1,692,275; Nov. 20.

Mosher, Charles D., Hyde Park, Mass. Plate air heater. 1,692,562; Nov. 20.

Mosler Safe Company, The. (See Goldsmith, G. M., and Bartels, assignors.)

Motisher, Robert W., Sewell, N. J. Dump car. 1,692,276; Nov. 20.

Mueller, Adolph, trustee. (See Eichman, Arthur W., assignor.)

Mueller, Adolph, trustee. (See Mueller, Philip and L. W., assignors.)

Mueller, Lucien W. (See Mueller, Philip and L. W.)

Mueller, Philip and L. W., assignors to A. Mueller, trustee, Decatur, Ill. Waste-control mechanism. 1,692,512; Nov. 20.

Müller, Carl E. (See Eichwede, E., Fischer, and Müller.)

Müller, Karl, and W. Sander, Essen, Germany. Bearing-metal alloy. 1,691,931; Nov. 20.

Müller, Karl, and W. Sander, Essen, Germany. Bearing-metal alloy. 1,691,932; Nov. 20.

Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,692,790; Nov. 20.

Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Cabinet for ice cream and the like. 1,692,792; Nov. 20.

Murr, Alfred C., and F. L. Curran, Chicago, Ill. Washing device. 1,692,563; Nov. 20.

Murray California Food Products Inc. (See Hulburt, Harvey L., assignor.)

Murray, Howard J., Brooklyn, N. Y. Automatic speed-changing power-transmission device. 1,692,091; Nov. 20.

Muskat, Louis R., assignor to Triangle Packaging Company, Chicago, Ill. Glue-applying apparatus. 1,692,048; Nov. 20.

Mutual Trust Company of Philadelphia, executor. (See Marsh, Herbert R.)

N. V. Hazemeyer's Signal-Apparaten. (See Akemann, Walther, assignor.)

Nacken, Hermann, Wurselen, assignor to Aachener Maschinebau-Gesellschaft m. b. H., Aachen, Germany. Needle-feeding mechanism. 1,692,380; Nov. 20.

Napier Co., The. (See Schuelke, Emil A., assignor.)

National Acme Company, The. (See Russell, Oliver A., assignor.)

National Acme Company, The. (See Simpson, Charles W., assignor.)

National Carbon Company. (See Osean, Charles, assignor.)

National Rubber Machinery Company. (See De Mattia, Peter, assignor.)

National Screw and Manufacturing Company, The. (See Mortus, Benjamin H., assignor.)

National Seal Company. (See Doweiko, James C., assignor.)

National-Standard Company. (See Hirschl, Marcus A., assignor.)

Nees, William, Drexel Hill, Pa. Dies for forming throat sheets for boilers. 1,692,684; Nov. 20.

Netzel, Archie E. (See Hansard, C. S., and Netzel.)

Nevius Church Press, The. (See Locke, Edwin A., jr., assignor.)

Newell, Floyd B., Elmira, N. Y., assignor to L. Freedman and W. H. Reynolds, copartners doing business as American Instrument Company, Washington, D. C. Indicator. 1,692,513; Nov. 20.

Newman, Samuel F., and J. G. Harper, assignors to Landis Machine Company, Waynesboro, Pa. Die head. 1,692,514; Nov. 20.

Newman, Williams A., Childress, Tex. Locomotive-cab seat. 1,692,685; Nov. 20.

Newpher, Charles F., Shaker Heights, assignor to The Bourne-Fuller Company, Cleveland, Ohio. Mechanism for feeding and operating upon articles. 1,692,416; Nov. 20.

Newton, Milo C., and J. A. Gremling, assignors to The E. & N. Manufacturing Company, Delphos, Ohio. Broom. 1,691,985; Nov. 20.

Nichols, Harry J., Washington, D. C. Tactual indicator. 1,692,686; Nov. 20.

Nitschke, Reinhardt, and H. Salois, Lawrence, Mass. Doll-house construction. 1,692,346; Nov. 20.

Nixon, Foster C., Apollo, Pa. Electrolytic apparatus. 1,692,757; Nov. 20.

Nogrady, Henry, Detroit, assignor of one-half to A. Weiss, Fordson, Mich. Multiple-year calendar. 1,692,758; Nov. 20.

Norling, Axel O. (See Routledge, G., and Norling.)

Norlipp Company, The. (See Lippert, Aloysius C., assignor.)

North & Judd Manufacturing Company. (See Hancock, Horace G., assignor.)

Northwestern Manufacturing Company. (See Hansen, K. L., and Oesterlein, assignors.)

Norton, A. O., Inc. (See Hobbs, John W., assignor.)

Norwood, Harry Y., Avon, assignor to Taylor Instrument Companies, Inc., Rochester, N. Y. Thermometer. 1,692,381; Nov. 20.

Novak, Izador J., assignor to Raybestos Company, Bridgeport, Conn. Friction element and producing same. 1,692,136; Nov. 20.

Nuss, Max, Darmstadt, Germany. Gas burner. 1,692,382; Nov. 20.

Nye, Alvin F., assignor to Fli-Bac Screen Corporation, Rochester, N. Y. Window screen. 1,692,759; Nov. 20.

Nyquist, Harry, Elmhurst, N. Y., assignor to American Telephone and Telegraph Company. Apparatus and method for generating pure sine waves of electromotive force. 1,691,986; Nov. 20.

Nystrom, Martin, assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Combined phonograph and radio apparatus. 1,691,987; Nov. 20.

Oakley, John, assignor, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass. Broaching machine. 1,692,564; Nov. 20.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,692,687; Nov. 20.

O'Connor, John F., assignor to W. H. Miner Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,692,688; Nov. 20.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,692,689; Nov. 20.

O'Dwyer, Philip, Detroit, Mich. Tile. 1,692,383; Nov. 20.

Oehmichen, Etienne, Valentigney, France. Cinematographic apparatus. 1,692,092; Nov. 20.

Oesterlein, William J. (See Hansen, K. L., and Oesterlein.)

Ogden, John E. (See McIntosh, Roy E., assignor.)

Ohio Brass Company, The. (See Hollis, Joseph, assignor.)

Oilgear Company, The. (See Ferris, Walter, assignor.)

Olson, Victor L., Leigh, Nebr. Vacuum cleaner. 1,691,988; Nov. 20.

Orelup, John W., East Orange, and O. I. Lee, Jersey City, N. J., assignors, by mesne assignments, to Boyce-Ite Products, Incorporated, Cincinnati, Ohio. Fuel and fuel ingredients. 1,692,784; Nov. 20.

Orr, Angus N., and S. H. Goldberg, Chicago, Ill. Multiphase equipment protection. 1,692,138; Nov. 20.

Orr, William V., Cleveland, Ohio. Suction cleaning device. 1,692,137; Nov. 20.

Ortiz, Angel F., Buenos Aires, Argentina. Milk cooling and filtering apparatus. 1,692,760; Nov. 20.

Osberg, Carl E. B., assignor to Rollins Hosiery Mills, Des Moines, Iowa. Needle for repairing runs in knitted goods. 1,692,220; Nov. 20.

Osean, Charles, Woodcliff, N. J., assignor to National Carbon Company, Inc., Flash light. 1,691,989; Nov. 20.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor-unloading mechanism. 1,692,262; Nov. 20.

Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Compressor. 1,692,269; Nov. 20.

Osser, Sidney, Wichita, Kans. Rapid magnetizing and demagnetizing metal alloys. 1,692,690; Nov. 20.

Osser, Sidney, Wichita, Kans. Magnetic motor. 1,692,761; Nov. 20.

Osterheld, Clark M., Stoughton, Wis., assignor to McGraw Electric Company, Omaha, Nebr. Electric burner. 1,692,221; Nov. 20.

Overmier, Emmons, La Grange, assignor to Maintenance Equipment Company, Chicago, Ill. Ballast-removing machine. 1,691,933; Nov. 20.

Oviedo, Fortunato F., Madrid, Spain. Automatic baking oven. 1,692,515; Nov. 20.

Owens Bottle Company, The. (See Denelsbeck, D., and Dille, assignors.)

Owens Bottle Company, The. (See La France, Richard, assignor.)

Owens Bottle Company, The. (See McLaughlin, John E., assignor.)

Owens Bottle Company, The. (See Soubier, Leonard D., assignor.)

Owens, Freeman H., New York, N. Y. Optical printer. 1,692,347; Nov. 20.

Packard, Edwin A., Yonkers, assignor to International Combustion Engineering Corporation, New York, N. Y. Boiler furnace. 1,692,934; Nov. 20.

Page, Albert E., Brooklyn, N. Y., assignor to Scott & Williams, Incorporated, New York, N. Y. Knitting machine. 1,692,691; Nov. 20.

Pagin, John B., South Bend, Ind., assignor to The South Bend Bait Company. Decorating fish lures. 1,692,222; Nov. 20.

Paine, James B. and J. W. Spradley, Sherman, Tex. Attachment for lawn mowers. 1,692,185; Nov. 20.

Palau, Gilberto, New York, N. Y. Lady's hand bag. Des. 76,951; Nov. 20.

Pangborn, Redmond H., Tacoma, Wash. Packing box. 1,692,049; Nov. 20.

Pape, Herman G., Newark, N. J. Acoustic diaphragm. 1,692,800; Nov. 20.

Parella Corporation, The. (See McKinney, Francis B., assignor.)

Parkersburg Rig & Reel Company, The. (See Schwemlein, William, assignor.)
Parrish, William C., Port Arthur, Tex. Deep-well pump. 1,692,050; Nov. 20.
Parsons, Stuart W., assignor to The Stanley Works, New Britain, Conn. Forming a hinge leaf. 1,692,785; Nov. 20.
Partell, Fred C., Island Pond, Vt. Blotter holder. 1,692,384; Nov. 20.
Paterson, Charles J., Cleveland, Ohio. Golf cup. 1,691,935; Nov. 20.
Patrouilleau, Louis G., assignor to Société Alumine et Dérivés, Paris, France. Manufacture of sulphate of aluminum. 1,692,692; Nov. 20.
Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Radio direction and position finder. 1,692,051; Nov. 20.
Paul, Stephen, Lansing, Mich., assignor of one-half to S. H. Davis. Tie-rod fastening. 1,692,565; Nov. 20.
Payton, Bernard H., Providence, R. I. Automobile arm rest. Des. 76,952; Nov. 20.
Peabody Engineering Corporation. (See Quiroz, F. A., and Peabody, assignors.)
Peabody, Ernest H. (See Quiroz, F. A., and Peabody.)
Peller, Karl E., assignor to Hartford-Empire Company, Hartford, Conn. Method and apparatus for feeding glass. 1,692,464; Nov. 20.
Pelletier, John M. and M. D., New York, N. Y. Picture frame. Des. 76,953; Nov. 20.
Pelletier, Michael D. (See Pelletier, John M. and M. D.)
Penney, J. C., Company. (See Rader, Robert J., assignor.)
Perkins, Frances W. (See Perkins, Willis J., assignor.)
Perkins, Julian L., West Springfield, and H. D. Croft, assignors, by mesne assignments, to Perkins Machine and Gear Company, Springfield, Mass. Work holder. 1,692,566; Nov. 20.
Perkins Machine and Gear Company. (See Oakley, John, assignor.)
Perkins Machine and Gear Company. (See Perkins, J. L., and Croft, assignors.)
Perkins, Willis J., assignor to F. W. Perkins, Grand Rapids, Mich. Automatic fire-extinguishing apparatus and system. 1,692,052; Nov. 20.
Peter, Henry A., Philadelphia, Pa., assignor to Pioneer Suspender Company. Belt box. 1,691,936; Nov. 20.
Peter, Henry A., Philadelphia, Pa., assignor to Pioneer Suspender Company. Belt box. 1,691,937; Nov. 20.
Petersen, Oscar, assignor to Mills Novelty Company, Chicago, Ill. Damper control. 1,692,465; Nov. 20.
Peterson, Charles W., Detroit, Mich. Loud speaker. 1,692,762; Nov. 20.
Peuckert, Friedrich H., Dresden-Kaditz, Germany, assignor to E. Wildt, Leicester, Great Britain. Producing a fabric by combined knitting and weaving. 1,692,567; Nov. 20.
Pew, Arthur E., jr., Bryn Mawr, and H. Thomas, Ridley Park, assignors to Sun Oil Company, Philadelphia, Pa. Cracking mineral oil. 1,692,786; Nov. 20.
Pfeiffer, Christian, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Cartridge feeding device for automatic firearms. 1,692,277; Nov. 20.
Pfinger, Harry M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Locomotive construction. 1,692,693; Nov. 20.
Pflueger, Charles T., and W. L. Adams, assignors to The Enterprise Manufacturing Company, Akron, Ohio. Level-wind mechanism for fishing reels. 1,692,466; Nov. 20.
Photostat Corporation. (See Caps, A. W., and Leininger, assignors.)
Pidgeon, Elmer F., assignor of one-half to L. O. Draper, Spiceland, Ind. Combined shield and bracket support for double shades. 1,692,694; Nov. 20.
Pike, George J., Grand Rapids, Mich., assignor to Star Furniture Company, Jamestown, N. Y. Bedstead. Des. 76,954; Nov. 20.
Pinkerton, Howard K., and F. L. Rhyndress, Kansas City, Mo. Fountain tank. 1,692,223; Nov. 20.
Pioneer Suspender Company. (See Peter, Henry A., assignor.)
Pistor, Gustav, Bitterfeld, and E. Borsbach, Bitterfeld-Sandersdorf, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purifying gases containing phosphorus. 1,692,787; Nov. 20.
Platt Iron Works Incorporated. (See Wells, Edward C., assignor.)
Pollak, Joseph, Tool and Stamping Company. (See Averill, William H., assignor.)
Polydoroff, Wladimir J., assignor to Johnson-Williamson Laboratories, Inc., Chicago, Ill. Radio frequency amplifying circuits. 1,692,763; Nov. 20.
Pongratz, Alfred, Graz, Austria, assignor to F. Bensa, Genoa, Italy. Manufacture of cyanides of the perylene series. 1,692,417; Nov. 20.
Pope, William J., Cambridge, assignor to The British Drug Houses Limited, London, England. Anæsthetic and process for manufacturing same. 1,692,695; Nov. 20.
Pope, William J., Cambridge, assignor to The British Drug Houses Limited, London, England. Benzamine borate and making same. 1,692,696; Nov. 20.
Pope, William J., Cambridge, assignor to British Drug Houses Limited, London, England. Manufacture of benzamine borate. 1,692,697; Nov. 20.
Pope, William J., Cambridge, assignor to The British Drug Houses Limited, London, England. Pharmaceutical product. 1,692,698; Nov. 20.
Porter, Kurt. (See Bliss, H. H., and Porter.)
Potter, Frank M., Rome, assignor to General Cable Corporation, New York, N. Y. Conduit coupling. 1,692,798; Nov. 20.
Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. High-frequency signaling system. 1,691,990; Nov. 20.
Potter, Robert S., Greenwich, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Door closer. 1,692,699; Nov. 20.
Poulet, Edouard, Courbevoie, France. Braking mechanism for front wheels on motor cars. 1,692,130; Nov. 20.
Powell, Perry O., Milwaukee, Wis. Pin or article of similar nature. Des. 76,955; Nov. 20.
Prettyman, George W. L., Bergenfield, N. J. Furniture brace. 1,692,568; Nov. 20.
Price, John V., Providence, assignor to Rhode Island Lace Works, Inc., West Barrington, R. I. Lace. Des. 76,956; Nov. 20.
Primak, Adam, Milwaukee, Wis. Belt buckle. 1,692,418; Nov. 20.
Prince, Charles L., et al. (See Bostick, Evelyn D., assignor.)
Proctor & Schwartz, Incorporated. (See Schwartz, Walter M., assignor.)
Puckett, William H., Tulsa, assignor of one-half to D. A. Kline, Muskogee, Okla. Rocker arm for internal-combustion-engine valves. 1,691,991; Nov. 20.
Pullen, Fred A., La Fontaine, Ind. Strip-map holder. 1,692,348; Nov. 20.
Putty, Oscar E., San Pedro, Calif. Overstuffed bed davenport. 1,691,992; Nov. 20.
Pym, Arthur F., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 1,692,278; Nov. 20.
Quaker Silver Company. (See Jennings, James W., assignor.)
Quinlan, James, Minneapolis, Minn. Fuel-gas regulator. 1,692,467; Nov. 20.
Quiroz, Francisco A., and E. H. Peabody, New York, N. Y., assignors to Peabody Engineering Corporation. Liquid-fuel burner. 1,692,349; Nov. 20.
Racine Confectioners Machinery Company. (See Miller, Eseck C., assignor.)
Rader, Robert J., New Rochelle, assignor to J. C. Penney Company, New York, N. Y. Display stand. 1,692,311; Nov. 20.
Radio Corporation of America. (See Clough, Newsome H., assignor.)
Radio Patents Corporation. (See Dubilier, William, assignor.)
Rae, Frank B., and V. A. Smith, Berkeley, assignors to Western Lumber Manufacturing Co., Incorporated, San Francisco, Calif. Machine for rejecting faulty separators. 1,692,700; Nov. 20.
Railway Metal Products Company. (See Small, Arthur E., assignor.)
Randall, Edgar L., Muswell Hill, assignor to The General Electric Company Limited, London, England. Lighting fitting. 1,691,938; Nov. 20.
Rau Fastener Co. (See Reiter, L., and Colby, assignors.)
Raybestos Company. (See Novak, Izador J., assignor.)
Ready, William A., Brookline, Mass. Escutcheon plate for a dial mechanism. Des. 6,957; Nov. 20.
Reber, James W., assignor to Woodall-Duckham (1920) Limited, London, England. Producer or shaft furnace. 1,692,572; Nov. 20.
Reece, Joseph A., assignor to the Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing apparatus. 1,692,569; Nov. 20.
Reece, Joseph A., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Method and apparatus for forming sheet glass. 1,692,702; Nov. 20.
Reed, Clarence E., Wichita, Kans. Earth-boring drill. 1,692,793; Nov. 20.
Reed, James H., Detroit, Mich. Vehicle signal. 1,692,516; Nov. 20.
Reed Manufacturing Company. (See Stoeltzlen, Leo V., assignor.)
Reemer, Frederic O., Chicago, Ill. Journal box. 1,692,570; Nov. 20.
Reichel, Jacob, New York, N. Y. Trousers. 1,692,312; Nov. 20.
Rein, William R., Chicago, Ill. Floor plate and hanger. 1,692,571; Nov. 20.
Reissmann, Fred. (See Bellile, G. L., and Reissmann.)
Reiter, Lues, and A. B. Colby, assignors to Rau Fastener Co., Providence, R. I. Snap fastener. 1,692,701; Nov. 20.
Reitz, Charles J. (See Rote, Morgan M., assignor.)
Remington Rand Inc. (See Lasker, William W., assignor.)
Remondino, Charles H. E. (See McBride, A. C., and Renworth, assignors.)
Renworth, Frederick W. (See McBride, A. C., and Renworth.)
Reo Motor Car Company. (See Wells, Walter W., assignor.)
Replogle, Daniel B., Berkeley, Calif., assignor to Commerce Guardian Trust and Savings Bank, trustee, Toledo, Ohio. Cord reel. 1,692,517; Nov. 20.





Reuber, Henry, jr. (See Foley, John J., assignor.)
Reuther, John, East Aurora, N. Y. Potato digger. 1,692,468; Nov. 20.
Rex, Walter H., Tallahassee, Fla., assignor to Crorex Holding Company. License-plate holder. 1,692,469; Nov. 20.
Reynolds William H., et al. (See Newell, Floyd B., assignor.)
Reznor, George F., Mercer, Pa. Gas burner. 1,692,186; Nov. 20.
Rhode Island Lace Works, Inc. (See Price, John V., assignor.)
Rhyndress, Freeman L. (See Pinkerton, H. K., and Rhyndress.)
Rice, Barton & Fales, Inc. (See Lindstrom, Carl C., assignor.)
Rice, Joseph, assignor to Elevator Company of America, Chicago, Ill. Door-controlling mechanism for elevators. 1,692,187; Nov. 20.
Richardson, Frances C. (See Miller, John M., assignor.)
Richter, Wolfgang D., Philadelphia, assignor to Wildman Mfg. Co., Norristown, Pa. Full-fashioned-hosiery machine. 1,692,279; Nov. 20.
Rigolage, Maurice J. J., assignor to Société d'Euglns Graisseurs, Paris, France. Construction of automatic clutches provided with a centrifugal mass. 1,692,703; Nov. 20.
Ritsert, Eduard, Frankfort-on-the-Main, Germany. Amino aromatic esters for use as anæsthetics and making same. 1,692,224; Nov. 20.
Roberts, Gladys M., St. Paul, Minn. Toe end. 1,692,225; Nov. 20.
Robertson, Annie E., Coffeyville, Kans. Nether garment. 1,692,350; Nov. 20.
Robinson, Ernest Y., Manchester, England, assignor to Metropolitan-Vickers Electrical Company Limited. Vacuum electric-tube device. 1,692,573; Nov. 20.
Rockwell, Edward A., Long Island City, N. Y., assignor to Stewart-Warner Speedometer Corporation. Valve fitting for communicating engine-cylinder pressures. 1,692,093; Nov. 20.
Roessler, Robert, Hoboken, N. J. Meat chopper. 1,692,574; Nov. 20.
Rogers, Charles B., Joplin, Mo. Pulley. 1,691,993; Nov. 20.
Rohrig, Clara E., Davenport, Iowa. Clothes-basket carrier and rack. 1,692,704; Nov. 20.
Rollins Hosiery Mills. (See Osberg, Carl E. B., assignor.)
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Roos, Gunnar, Stockholm, Sweden. Refrigerating machine. 1,692,053; Nov. 20.
Roose, Cyriel, St. Claire Shores, and J. Benzie, Detroit, Mich. Gas-cock safety device. 1,692,188; Nov. 20.
Root, William D., Cleveland, Ohio. Corn-popping machine. 1,692,575; Nov. 20.
Ropp, Franklin N., Los Angeles, Calif. Joist hanger. 1,692,351; Nov. 20.
Rorison, John C., New York, N. Y. Sliding signal. 1,692,313; Nov. 20.
Rose, Robert E., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Softener for silk and making same. 1,691,994; Nov. 20.
Rose, Robert W. (See Andrew, N. P., Macfie, and Rose.)
Rosenberg, Abraham, New York, N. Y. Tree stand. Des. 76,958; Nov. 20.
Rosenberg, Philip, Brooklyn, N. Y. Hat lining and size reducer. 1,692,419; Nov. 20.
Rosenqvist, Gunnar, Pittsburgh, Pa. Apparatus for producing articles by electrolytic deposition. Re17,141; Nov. 20.
Rote, Morgan M., assignor of one-half to C. J. Reitz, Sunbury, Pa. Expansion means for furnaces. 1,692,576; Nov. 20.
Roth, Robert R., Thomas, W. Va. Emergency repair link. 1,692,577; Nov. 20.
Routledge, Gerald, Oakland, and A. O. Norling, Alameda, assignors to Hutchinson Co., Oakland, Calif. Concrete mixer. 1,692,280; Nov. 20.
Rowley, James L., assignor to Shaw-Walker Company, Muskegon, Mich. Card index. 1,692,140; Nov. 20.
Rowntree and Company Limited, of the Cocoa Works. (See Fernbach, A., and Yuill, assignors.)
Royce, Frederick H., Elmstead, West Wittering, near Chichester, assignors to Rolls-Royce Limited, Derby, England. Cooling device for the cylinders of internal-combustion engines. 1,692,385; Nov. 20.
Ruby, George H. A., East Grand Rapids, Mich. Gypsum-block machine. 1,692,420; Nov. 20.
Russell, Oliver A., Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Safety device for automatic screw machines. 1,692,314; Nov. 20.
Ryan, Daniel F. (See Marsh, Herbert R., assignor.)
Rystedt, Ingemar K., Dayton, Ohio. Parking device for automobiles and the like. 1,692,578; Nov. 20.
Sachs, Joseph, Hartford, Conn. Convertible electric-appliance-receiving box. Re17,138; Nov. 20.
Salisbury, Harold E. (See McCarty, T. E., and Salisbury.)
Salois, Henry. (See Nitschke, R., and Salois.)
Salt, Elmer H., Norwood, assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Punch. 1,692,764; Nov. 20.
Salt, Elmer H., Norwood, assignor to The Globe-Wernicke Company, Cincinnati, Ohio. Sheet-metal waste-paper basket. 1,692,765; Nov. 20.
Sánchez, Reynaldo, Monterey, Mexico. Mortising machine. 1,692,580; Nov. 20.
Sanchez, Roman L., assignor of one-third to M. R. Egbert, Los Angeles, Calif. Detachable sign for vehicles. 1,691,939; Nov. 20.
Sander, Wilhelm. (See Müller, K., and Sander.)
Saulter, Alfred W., Rotherhithe, London, England. Packing of wire or the like. 1,691,995; Nov. 20.
Sawers, Andrew, Leeds, England. Attachment for sewing machines. 1,692,094; Nov. 20.
Schellenbach, William L., Wyoming, assignor to The American Tool Works Company, Cincinnati, Ohio. Clutch-actuating means for machine tools. 1,692,705; Nov. 20.
Schlagenhauf, Johann, Oerlikon, Switzerland. Automatic brake for trailers. 1,692,141; Nov. 20.
Schlusselburg, George, Chicago, Ill., assignor to F. E. Hale, London, England. Valve for regulating gas flames. 1,692,421; Nov. 20.
Schmalz, William F., Rockville, and R. E. Dodd, assignors, by mesne assignments, to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Mold for musical-instrument mouthpieces. 1,692,352; Nov. 20.
Schmitt, Otto G., Chicago, Ill. Apparatus for making pads. 1,692,386; Nov. 20.
Schmitt, Otto G., Chicago, Ill. Machine for making flexible pads. 1,692,387; Nov. 20.
Schnell, William, assignor to Ternstedt Manufacturing Co., Detroit, Mich. Dome light for an automobile. Des. 76,959; Nov. 20.
Scholes, Richard T., Hinsdale, Ill. Applying tool for rail anchors. 1,691,940; Nov. 20.
Schollmeyer, William A., Yonkers, N. Y. Shingle. 1,692,388; Nov. 20.
Schopper, Alfred. (See Beckmann, W., and Schopper.)
Schrader, Thomas O., Allentown, assignor to The Dent Hardware Co., Fullerton, Pa. Spring-controlled latch. 1,692,579; Nov. 20.
Schroeder, Harry C., et al. (See Baker, Daniel W., assignor.)
Schuelke, Emil A., assignor to The Napier Co., Meriden, Conn. Necklace or similar article. Des. 76,960; Nov. 20
Schutte and Koerting Company. (See Knauf, Paul W., assignor.)
Schwab, James W., Gulf, assignor to Texas Gulf Sulphur Company, Bay City, Tex. Treating sulphur. 1,692,422; Nov. 20.
Schwarcman, Alexander, assignor to Spencer Kellogg and Sons, Inc., Buffalo, N. Y. Treating oils. 1,692,226; Nov. 20.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Bench. Des. 76,961; Nov. 20.
Schwartz, Walter M., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Panel. Re17,144; Nov. 20.
Schwartzman, Morris. (See Alter, H. A., and Schwartzman.)
Schwarz, Eduard, Chicago, Ill. Color-binding preparation. 1,692,389; Nov. 20.
Schwemlein, William, assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Counterbalanced band wheel. 1,692,581; Nov. 20.
Scofield, Edgar, New York, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Hermetic seal. 1,692,189; Nov. 20.
Scott, Dudley H., assignor to The Humphrey Company, Cleveland, Ohio. Buffer or bumper for amusement vehicles or cars. 1,692,095; Nov. 20.
Scott, Floyd A., Somers Point, N. J. Paste tube. 1,692,096; Nov. 20.
Scott & Williams, Incorporated. (See Page, Albert E., assignor.)
Scovill Manufacturing Company. (See King, George A., assignor.)
Sealey, Ralph A., Newark, N. J. Rust prevention. 1,692,706; Nov. 20.
Sears, Arthur D., Nashville, Tenn. Window shade. 1,692,707; Nov. 20.
Sederberg, Ludwig E., St. Paul, Minn. Cattle-stall bar. 1,692,470; Nov. 20.
Segeler, John C., Chicago, Ill. Shock absorber and the like. 1,692,227; Nov. 20.
Seiberling Rubber Company. (See Kilborn, Karl B., assignor.)
Seiffert, Franz, & Co., Aktiengesellschaft. (See Fröb, Walther, assignor.)
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Semler, Clyde M., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tire-repair patch. 1,692,054; Nov. 20.
Serpas, Ernest J., New Orleans, La. Joint. 1,692,708; Nov. 20.
Seybold, Jeannette M., et al. (See Auble, James L., assignor.)
Shaffer, William D., Brea, assignor of one-third to E. J. Williams, Whittier, and one-third to G. S. Fosnaugh, Compton, Calif. Oil-well packing head. 1,692,582; Nov. 20.
Shand, Errol B. (See Evans, R. D., Wagner, Dovjikov, and Shand.)
Sharkey, Jesse L. (See Keens, J. A., and Sharkey.)
Shaw-Walker Company. (See Rowley, James L., assignor.)
Sheldon, Albert N., Ventura, Calif. Apparatus for walking on water. 1,692,055; Nov. 20.

Shenango Pottery Company. (See De Lan, Eugene A., assignor.)
Shenkin, Moe. (See Epstein, J. B., and Shenkin.)
Shepperack, Joseph E., Mont Clare, assignor of one-fourth to J. Di Clo and one-fourth to H. C. Simons, Norristown, Pa. Runner-mender needle. 1,692,583; Nov. 20.
Shere, Albert T., assignor, by mesne assignments, to Gat Gun Lubricating Corporation, Oakland, Calif. Grease gun. 1,692,423; Nov. 20.
Shields, Patrick W., and W. J. Blenko, assignors to McKenna Brass and Manufacturing Company, Incorporated, Pittsburgh, Pa. Method and apparatus for bottling. 1,692,471; Nov. 20.
Shields, Samuel A., Eureka, Calif. Bearing boxing. 1,692,709; Nov. 20.
Shipley, Stanley D., Stamford, Conn., assignor to Atlas Powder Company, Wilmington, Del. Brushing lacquers. 1,692,584; Nov. 20.
Shuter, Alfred D. (See Smith, W. S., and Shuter.)
Siemering, Herman. (See Kremski, F., and Siemering.)
Silent Watchman Corporation, The. (See Joseph, Theodore H., assignor.)
Simons, Harry C., et al. (See Shepperack, Joseph E., assignor.)
Simplex Ticket Company, The. (See Freeman, Charles A., assignor.)
Simplex Universal Joint, Inc. (See Edwards, Eugene P., assignor.)
Simpson, Charles W., Windsor, Vt., assignor to The National Acme Company, Cleveland, Ohio. Crank-handle safety device for multiple-spindle screw machines. 1,692,315; Nov. 20.
Simsack, Anton S., assignor of one-third to M. Apt, Philadelphia, Pa. Spark-plug transformer. 1,691,996; Nov. 20.
Simsack, Anton S., assignor of one-third to M. Apt, Philadelphia, Pa. Spark plug. 1,691,997; Nov. 20.
Skaggs, Charles E., and B. E. Logan, Bay Point, Calif. Mortise joint. 1,692,586; Nov. 20.
Sliwa, Louis. (See Long, W. B., and Sliwa.)
Small, Arthur E., Chicago, Ill., assignor, by mesne assignments, to Railway Metal Products Company. Sliding-door opener and closer. 1,692,228; Nov. 20.
Smart, Joseph F. (See Lamb, J. F., and Smart.)
Smith, Albert L. (See Walker, A. W., and Smith.)
Smith, Andrew, assignor to Smith Laboratories, Inc., Milwaukee, Wis. Clutch control. 1,692,390; Nov. 20.
Smith, Charles M., East Pepperell, Mass. Ice crusher. 1,692,472; Nov. 20.
Smith, Edward W., Philadelphia, Pa. Storage battery. 1,692,316; Nov. 20.
Smith, Goodwin B., Philadelphia, Pa. Vending machine. 1,691,998; Nov. 20.
Smith Laboratories, Inc. (See Smith, Andrew, assignor.)
Smith, Samuel K., New Brighton, Pa. Plant protector. 1,692,229; Nov. 20.
Smith, S. Morgan, Company. (See Jessop, George A., assignor.)
Smith, Vernon A. (See Rae, F. B., and Smith.)
Smith, William H., assignor to General Reduction Corporation, Detroit, Mich. Apparatus for reducing metallic oxides. 1,692,587; Nov. 20.
Smith, William H., assignor to General Reduction Corporation, Detroit, Mich. Reducing metallic oxides. 1,692,588; Nov. 20.
Smith, William J., Philadelphia, assignor to V. S. Clymer, Souderton, Pa. Air compressor. 1,692,473; Nov. 20.
Smith, William S., Cambridge, Mass. Electromagnet. 1,692,056; Nov. 20.
Smith, Willoughby S., Newton Poppleford, and A. D. Shuter, Harrow-on-the-Hill, England. Dynamometer for use in measuring the tension in a rope, cable, or the like. 1,692,057; Nov. 20.
Sobel, Frank, Brooklyn, assignor to Metal Artcraft Fixture Co., New York, N. Y. Display stand. Des. 76,962; Nov. 20.
Société Alumine et Dérivés. (See Patrouilleau, Louis G., assignor.)
Société d'Eugins Graisseurs. (See Rigolage, Maurice J. J., assignor.)
Society of Chemical Industry in Basle. (See Merkl, Werner, assignor.)
Sotak, Samuel, jr., Lansford, Pa. Alarm. 1,692,518; Nov. 20.
Soubier, Leonard D., assignor to The Owens Bottle Company, Toledo, Ohio. Method and apparatus for producing charges of molten glass. 1,692,589; Nov. 20.
Sounitza, Vladimir B., Pasadena, Calif. Oil furnace. 1,691,941; Nov. 20.
South Bend Bait Company, The. (See Pagin, John B., assignor.)
Spaeth, Charles, assignor to The Marvel Equipment Company, Cleveland, Ohio. Grease-gun filler. 1,692,058; Nov. 20.
Spahn, John A., Wilmington, Del. Conduit bushing. 1,692,710; Nov. 20.
Speer, Harry P., assignor of one-half to J. M. Wheeler, Council Bluffs, Iowa. Railroad coupler attachment. 1,692,281; Nov. 20.
Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)
Spiess, Georg. (See Vicum, Karl, assignor.)
Spilling, Arthur, Cassel, Germany. Society game. 1,692,519; Nov. 20.
Spinasse, Arthur E., Mount Vernon, Ohio. Method of and apparatus for drawing glass. 1,692,585; Nov. 20.
Spradley, James W. (See Paine, J. B., and Spradley.)
Stalker, Edward A., Ann Arbor, Mich. Airplane wing. 1,691,942; Nov. 20.
Stancliffe, Cecil W., London, England. Heat-transfer apparatus. 1,692,391; Nov. 20.
Standard Manufacturing Company. (See Voorhees, Walter K., assignor.)
Standard Sanitary Manufacturing Company. (See Frankenberger, Fred W., assignor.)
Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)
Stanley Insulating Company. (See Badger, Harry M., assignor.)
Stanley Works, The. (See Parsons, Stuart W., assignor.)
Stanton Home Safe Company. (See Irwin, Justice C., assignor.)
Staples, Eugene A., Brooklyn, N. Y. Floor outlet. 1,692,097; Nov. 20.
Star Furniture Company. (See Pike, George J., assignor.)
Starner, Victor E., Bell, Calif. Towel bar. 1,692,059; Nov. 20.
Statham, Noel, Irvington-upon-Hudson, N. Y. Flexible fastening device and operating the same. 1,691,999; Nov. 20.
Stearns, Roswell H., assignor to Magnetic Mfg. Co., Milwaukee, Wis. Method of and apparatus for magnetic separation. 1,692,590; Nov. 20.
Steere, Ernest C., Sydney, New South Wales, Australia. Electrical water heater. 1,691,943; Nov. 20.
Steffens, Joseph E., Hollis, N. Y. Mantle for gas burners. 1,692,000; Nov. 20.
Steizner, Hermann, assignor to A. B. Dräger, deceased, Lubeck, Germany; E. Dräger, née Stangen, executrix. Diving equipment. 1,692,591; Nov. 20.
Stenberg, Arvid E., Reed City, Mich. Resilient wheel. 1,692,001; Nov. 20.
Stephens, Joseph J. (See Turner, O. M., and Stephens.)
Stern, Louis, Woodmere, assignor to The De Luxe Clock & Mfg. Co., Inc., New York, N. Y. Clock crystal. 1,692,424; Nov. 20.
Stevenson, Faye A., Lancaster, Ohio. Perpetual calendar. 1,692,392; Nov. 20.
Stewart, George W., Iowa City, Iowa, assignor to American Telephone and Telegraph Company. Acoustic wave filter. 1,692,317; Nov. 20.
Stewart-Warner Speedometer Corporation. (See Rockwell, Edward A., assignor.)
Stickney, Burnham C., Portsmouth, N. H. Gas engine. 1,691,944; Nov. 20.
Stickney, Charles A., assignor to Stickney Hydraulic Co., Rockford, Ill. Water-softener injector. 1,692,592; Nov. 20.
Stickney Hydraulic Co. (See Stickney, Charles A., assignor.)
Stoddard, Wallace W., Bingham, Me., assignor to United Shank & Findings Company, Boston, Mass. Woodworking machinery. 1,692,230; Nov. 20.
Stoeltzlen, Leo V., assignor to Reed Manufacturing Company, Erie, Pa. Diestock. 1,692,353; Nov. 20.
Stoltz, Lawrence C. (See Darby, James K., assignor.)
Stone, Peter, Detroit, Mich. Ice boat. 1,692,354; Nov. 20.
Stonebraker, Harold E., Rochester, N. Y. Method and apparatus for cutting gears. 1,692,520; Nov. 20.
Strassel, Edward, Baldwin, N. Y. Scarf holder. 1,692,002; Nov. 20.
Straub, Francis J., New Kensington, Pa. Block-molding machine. 1,692,355; Nov. 20.
Straub, Francis J., New Kensington, Pa. Measuring box. 1,692,356; Nov. 20.
Strauss, Joseph B., assignor to Highway Safety Barrier Company, Chicago, Ill. Barrier. 1,692,142; Nov. 20.
Strauss, Joseph B., Chicago, Ill. Device for stopping high-powered vehicles. 1,692,425; Nov. 20.
Striffler, Gottlieb, Chicago, Ill. Apparatus for filtering and bottling fluids under pressure. 1,692,393; Nov. 20.
Strong, Carlisle & Hammond Company, The. (See Weintz, Jacob, assignor.)
Strunz, Wilhelm, Allersberg, near Nuremberg, Germany. Apparatus for washing the eyes. 1,692,143; Nov. 20.
Stuart, Hugh, assignor to Commonwealth Steel Company, Granite City, Ill. Molder's chaplet. 1,692,426; Nov. 20.
Studebaker Corporation, The. (See Bourgon Joseph H., assignor.)
Stürcke, Herman E., Port Orange, Fla., assignor to William Wharton Jr. & Company, Easton, Pa. Manufacture of containers for compressed gases. 1,692,521; Nov. 20.
Sturtevant, Harold E., assignor to The Whitney Mfg. Co., Hartford, Conn. Power-transmission chain. 1,692,799; Nov. 20.
Sugden, Bertha, assignor, by mesne assignments to Technicolor Picture Corporation, Boston, Mass. Cleaning gelatinous surfaces and the like. 1,692,358; Nov. 20.
Sullivan Machinery Company. (See Blom, Hjalmar T., assignor.)
Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
Sullivan Machinery Company. (See Halvorsen, Halbert B., assignor.)
Sullivan Machinery Company. (See Holdsworth, Fred D., assignor.)
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)



Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Sullivan Maurice S., Meriden, Conn. Nursing-bottle holder. 1,692,098; Nov. 20.
Sun Oil Company. (See Pew, A. E., jr., and Thomas, assignors.)
Sunbar Manufacturing Company. (See Glover, William M., assignor.)
Sundh, August, Hastings-upon-Hudson, N. Y. Flash light. 1,692,394; Nov. 20.
Superheater Company, The. (See Broido, B., and Swartz, assignors.)
Suter, George L., et al. (See Andrew, N. P., Macfie, and Rose, assignors.)
Swartz, Litch J., Wenatchee, Wash. Vehicle spring tire. 1,692,711; Nov. 20.
Swartz, Ralph M. (See Broido, B., and Swartz.)
Swindle, Monroe F. (See Austin, T. W., and Swindle.)
Szabó, Louis, Montreal, Quebec, Canada. Shock absorber for motor cycles. 1,692,593; Nov. 20.
Tabulating Machine Company, The. (See Braitmayer, Otto E., assignor.)
Tabulating Machine Company, The. (See Carroll, Fred M., assignor.)
Talbott, E. J., et al., trustees. (See Marsh, Howard E., assignor.)
Talley, Randal E., Irwin, Pa. Enameling furnace. 1,692,060; Nov. 20.
Tannebaum, Carl, New York, N. Y. Pocket guard. 1,692,712; Nov. 20.
Tanner, William J., Bridgeport, Conn. Rotatable advertising device. 1,692,594; Nov. 20.
Tarbox, Hugh B., Toronto, Ontario, Canada. Mop wringer. 1,692,099; Nov. 20.
Taumac Corporation, The. (See Zuschlag, Theodore, assignor.)
Taylor Instrument Companies. (See Norwood, Harry Y., assignor.)
Taylor-Wharton Iron and Steel Company. (See Hanks, George R., assignor.)
Technicolor Motion Picture Corporation. (See Sugden, Bertha, assignor.)
Templeton, Charles L., Minneapolis Minn. Dishwashing machine. 1,692,190; Nov. 20.
Ternstedt Manufacturing Co. (See Schnell, William, assignor.)
Texas Company, The. (See Elliott, Walton H., assignor.)
Texas Gulf Sulphur Company. (See Schwab, James W., assignor.)
Thayer, William S., Scotia, N. Y. Dishpan. 1,692,003; Nov. 20.
Thielicke, Karl, Wettin, Germany. Automatic egg boiler. 1,692,144; Nov. 20.
Thomas, Edward H., East Orange, N. J. Locking mechanism. 1,692,595; Nov. 20.
Thomas, Henry. (See Pew, A. E., jr., and Thomas.)
Thomas, Joseph R., assignor, by mesne assignments, to Widmer Compressor, Inc., Philadelphia, Pa. Compressor. 1,692,395; Nov. 20.
Thompson, C. C., Pottery Co., The. (See Thompson, George C., assignor.)
Thompson, George C., assignor to The C. C. Thompson Pottery Co., East Liverpool, Ohio. Covered dish or analogous article. Des. 76,963; Nov. 20.
Thompson, Harvey P., Des Moines, Iowa. Record file. 1,692,231; Nov. 20.
Thompson, Howard A., Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,692,061; Nov. 20.
Thompson Products, Incorporated. (See Bissell, Richard E., assignor.)
Till, Josefine, and K. Till, Neutitschein, Czechoslovakia. Hanging sleeping tent. 1,692,522; Nov. 20.
Till, Konrad. (See Till, Josefine and K.)
Timberlake, Paul J., Jackson, Mich. Hinged drying frame. 1,692,523; Nov. 20.
Timm, Julius, Chicago, Ill. Fingering steel for guitars and similar stringed instruments. 1,691,945; Nov. 20.
Tipton, William D., Towson, Md. Rotary valve. 1,692,396; Nov. 20.
Titeflex Metal Hose Co. (See Fulton, William H., assignor.)
Tobin, Edmund J., Altadena, Calif. Drinking-water-serving oils. 1,692,062; Nov. 20.
Toimie, Jack R., and T. M. Libby, Seattle, Wash. Audion. 1,691,946; Nov. 20.
Toimie, Ronald C., Rock Island, assignor to Deere & Company, Moline, Ill. Hand anvil. 1,692,004; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,964; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros., Inc., New York, N. Y. Plate or similar article. Des. 76,965; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,966; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,967; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,968; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,969; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,970; Nov. 20.
Tomita, Urasaburo, assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,971; Nov. 20.
Tomita, Urasaburo, Astoria, N. Y., assignor to Morimura Bros. Inc., New York, N. Y. Plate or similar article. Des. 76,972; Nov. 20.
Tower Manufacturing Co. (See Merrill, Hamilton, assignor.)
Towsley, Paul G., Indianapolis, Ind. Golf tee. 1,692,191; Nov. 20.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Electrothermal device. 1,692,474; Nov. 20.
Travers, Charles J. (See Liedtke, A. J., and Travers.)
Triangle Packaging Company. (See Muskat, Louis R., assignor.)
Trippe, Barker & Co. (See Barker, Lincoln, assignor.)
Trogner, Arthur M., Takoma Park, Md., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric-crystal apparatus. 1,692,063; Nov. 20.
Trogner, Arthur M., Takoma Park, Md., assignor to Wired Radio, Inc., New York, N. Y. Radio receiving apparatus. 1,692,064; Nov. 20.
Tubular Rivet & Stud Co. (See Brown, George W., assignor.)
Tucker, Floyd C. (See Tucker, Seth L. and F. C.)
Tucker, Seth L. and F. C., Hornell, N. Y. Automobile headlight-operating mechanism. 1,692,100; Nov. 20.
Turati, Ambrogio, Turin, Italy. Machine for spinning cotton and other textile materials. 1,692,357; Nov. 20.
Turner, Joseph O., Winston-Salem, N. C., assignor to Mengel Company, Louisville, Ky. Fastener for crates. 1,692,596; Nov. 20.
Turner, Orval M., and J. J. Stephens, Long Beach, Calif. Standing-valve lifter. 1,692,005; Nov. 20.
Tuttle, Henry A., Upton, Mass. Brake mechanism. 1,692,006; Nov. 20.
U. S. Slicing Machine Company. (See Folk, Joseph, assignor.)
U. S. Slicing Machine Company. (See Fox, Eugene R., assignor.)
U. S. Slicing Machine Company. (See van Lammeren, Willem P., assignor.)
Udylite Process Company. (See Young, A. W., and Louth, assignors.)
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Underwood Elliott Fisher Company. (See Waldheim, John, assignor.)
Union Metal Products Company. (See Bonsall, Charles D., assignor.)
Union Special Machine Company. (See Long, W. B., and Sliwa, assignors.)
Union Switch & Signal Company, The. (See Gilson, Robert M., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
United Cigarette Machine Co., Inc. (See Gooch, Claiborne W., jr., assignor.)
United Shank & Findings Company. (See Stoddard, Wallace W., assignor.)
United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Heys, George H., assignor.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
United States Chain & Forging Company. (See McGowen, William R., assignor.)
Universal Stamping & Mfg. Co. (See Monson, Axel, assignor.)
Urschel, William E., Valparaiso, Ind., assignor to Eskimo Pie Corporation, Louisville, Ky. Ice-cream cutting and coating machine. 1,692,427; Nov. 20.
Vacca, Guido. (See Bacci, R., and Vacca.)
Vacuum Oil Company. (See Moran, Robert C., assignor.)
Van Brunt, John, Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Chain grate. 1,692,598; Nov. 20.
Van Brunt, Willard A., Los Angeles, Calif., assignor to Deere & Company, Moline, Ill. Bearing. 1,692,007; Nov. 20.
Van Brunt, Willard A., Los Angeles, Calif., assignor to Deere & Company, Moline, Ill. Bearing. 1,692,008; Nov. 20.
Van Buren, John, Brooklyn, N. Y. Feeding mechanism. 1,691,947; Nov. 20.
Van Dorn Electric Tool Company, The. (See Connell, Edwin L., assignor.)
Van Etten, William V., Everett, Wash. Dirigible-spotlight mounting. 1,692,101; Nov. 20.
Van Lammeren, Willem P., Rotterdam, Netherlands, assignor to U. S. Slicing Machine Company, La Porte, Ind. Clamp for slicing machines. 1,692,359; Nov. 20.
Van Patten, Paul F., Detroit, Mich., assignor to S. H. Campbell, St. Louis, Mo. Golfing tee. 1,692,233; Nov. 20.
Venable, William M., assignor to Blaw-Knox Company, Pittsburgh, Pa. Turntable. 1,691,948; Nov. 20.

Vervaet, Arthur J., North Haledon, N. J. Loom shuttle motion. 1,692,475; Nov. 20.
Vicum, Karl, Erfurt, assignor to G. Spiess, Leipzig, Germany. Sheet feeding and delivery apparatus for platen printing presses. 1,692,597; Nov. 20.
Vulliet, H. G. R., and F. A. H. Deschâtres, Paris, France, assignors to A. Gueneau, Paris, France. Shears. Re-17,139; Nov. 20.
Voorhees, Walter K., assignor to Standard Manufacturing Company, Cedar Falls, Iowa. Adjustable street sign. 1,692,234; Nov. 20.
Vosgerau, Frederick C. B. (See Matthew, F. H., Broadbere, and Vosgerau.)
Voss, Gustav J. (See Hall, Paul S., assignor.)
Wadsworth, James M., Sand Springs, Okla. Method and apparatus for cracking and rectifying petroleum oils and the like. 1,692,476; Nov. 20.
Wägele, Emil, Sumpfohren, near Donaueschingen, Germany. Remote control device for power winches and the like. 1,692,009; Nov. 20.
Wagner, Charles F. (See Evans, R. D., Wagner, Dovjikov, and Shand.)
Wagner, Rudolf, Hamburg, Germany. Helicopter. 1,692,397; Nov. 20.
Wait, William, jr., Garden City, N. Y., assignor to Curtiss Aeroplane & Motor Co., Inc. Retractable landing gear. 1,692,010; Nov. 20.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Latch for covers for typewriting machines. 1,692,428; Nov. 20.
Walker, Arthur W., Malden, and A. L. Smith, West Medway, assignors to Walker & Pratt Mfg. Co., Boston, Mass. Electric range. 1,692,005; Nov. 20.
Walker & Pratt Mfg. Co. (See Walker, A. W., and Smith, assignors.)
Walker Vehicle Company. (See Whitney, Eddy R., assignor.)
Walter, Charles. (See Knobel, Reinhard and E., assignors.)
Waltham Bag and Paper Company. (See Jewell, Theodore E., assignor.)
Wamelink, Eugene C., Cleveland Heights, assignor, by mesne assignments, to The Eaton Axle & Spring Company, Cleveland, Ohio. Detachable connection. 1,692,477; Nov. 20.
Wanders, Hans H., Boston, Mass. Packaging machine. 1,692,429; Nov. 20.
Ward, John C., assignor to Milton Weaving Company, Boston, Mass. Narrow-fabric loom. 1,692,192; Nov. 20.
Ward-Love Pump Corporation. (See Harwood, S. G., and Griswold, assignors.)
Ward, Montague W. (See Gannon, J. E., and Ward.)
Warner, James, Ogden, Utah. Resilient wheel. 1,692,011; Nov. 20.
Washburne, Arthur L., Los Angeles, Calif. Water cooler. 1,692,066; Nov. 20.
Watson, C. H., et al. (See Baker, Thomas T., assignor.)
Watson, Clement W. (See Denman, I. O., and Watson.)
Waukesha Motor Company. (See De Long, James E., assignor.)
Weaver, Gallard E., and W. C. Keim, assignors to Weaver Manufacturing Company, Springfield, Ill. Vise. 1,692,398; Nov. 20.
Weaver Manufacturing Company. (See Weaver, G. E., and Keim, assignors.)
Weber, Harry M., Montclair, N. J., assignor to Ellis-Foster Company. Plastic resinous material and making same. 1,692,524; Nov. 20.
Weber, Leonard A., San Francisco, Calif. Autographic speed recorder. 1,692,713; Nov. 20.
Weber, Mathias J., assignor to Healthometer Company, Chicago, Ill. Weighing scale, leaf-spring type. 1,692,102; Nov. 20.
Webster, Warren, & Company. (See Montreuil, Frank H., assignor.)
Wehr Motor Company. (See Wehr, Rudolph, assignor.)
Wehr, Rudolph, Los Angeles, Calif., assignor to Wehr Motor Company. Valve construction. 1,692,235; Nov. 20.
Weintz, Jacob, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio. Electric furnace. 1,692,478; Nov. 20.
Weintz, Jacob, assignor to The Strong, Carlisle & Hammond Company, Cleveland, Ohio. Electric furnace. 1,692,479; Nov. 20.
Weiss, Adolph. (See Dultgen, A., and Weiss.)
Weiss, Alexander. (See Nogrady, Henry, assignor.)
Welk, Nelson S., assignor to The McBee Binder Co., Athens, Ohio. Shifting device for drills on bookbinding machines. 1,692,318; Nov. 20.
Wells, Edward C., assignor to Platt Iron Works, Incorporated, Dayton, Ohio. Indicating device. 1,692,012; Nov. 20.
Wells, Walter W., assignor to Reo Motor Car Company, Lansing, Mich. Four-speed transmission. 1,692,193; Nov. 20.
Welsh, Richard, Los Angeles, Calif. Gate valve. 1,692,067; Nov. 20.
Wenholz, Walter W., assignor to General Railway Signal Company, Rochester, N. Y. Train control. 1,692,301; Nov. 20.
Wenrich, Calvin N., Lancaster, assignor to Armstrong Cork Company, Pittsburgh, Pa. Laying linoleum or the like. 1,692,480; Nov. 20.
Wenzel, Carl E., assignor to Hedwig Mfg. Co., Newark, N. J. Flatiron support. 1,692,599; Nov. 20.
Werner, Ernst, Oberlangenbielau, Germany. Calender. 1,692,525; Nov. 20.
West, George B., Lester Township, Black Hawk County, Iowa. Shocker. 1,692,526; Nov. 20.
Western Coil & Electrical Company. (See Lewis, William T., assignor.)
Western Electric Company. (See Farrington, John F., assignor.)
Western Lumber Manufacturing Co. (See Rea, F. B., and Smith, assignors.)
Western Wheeled Scraper Company. (See Anderson, Philip C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Banmann, Karl, assignor.)
Westinghouse Electric & Manufacturing Company. (See Evans, R. D., Wagner, Dovjikov, and Shand, assignors.)
Westinghouse Lamp Company. (See May, Frederick T., assignor.)
Wetzell, Clare A., Sterling, Ill. Projecting figure wheel toy. 1,692,714; Nov. 20.
Wharton, William, jr., & Company. (See Stürcke, Herman E., assignor.)
Wheelan, Robert B., New York, N. Y. Loud-speaker unit. 1,692,600; Nov. 20.
Wheeler, John M. (See Speer, Harry P., assignor.)
Wheeler, William H., San Diego, Calif. Speedometer mounting for vehicles. 1,692,601; Nov. 20.
Wheildon, William M., assignor to E. H. Angier, Framingham, Mass. Reenforcing the edges of strip material. 1,692,236; Nov. 20.
White, Edwin C., Baltimore, Md. Organic compound of mercury and producing same. 1,692,237; Nov. 20.
Whitehouse, John R. (See Mix, E. S., and Whitehouse.)
Whiting, Frank M., & Company. (See Malinowski, Harry A., assignor.)
Whitney, Eddy R., Philadelphia, Pa., assignor, by mesne assignments, to Walker Vehicle Company, Chicago, Ill. Chassis for motor vehicles. 1,692,603; Nov. 20.
Whitney Mfg. Co., The. (See Sturtevant, Harold E., assignor.)
Whittingham, George H., assignor to Monitor Controller Company, Baltimore, Md. Switch mechanism. 1,692,604; Nov. 20.
Wico Electric Company. (See Brown, P., and Hendrickson, assignors.)
Widmer Compressor, Inc. (See Thomas, Joseph R., assignor.)
Wiebe, Sigurd J. A., East Orange, N. J., assignor to International Combustion Engineering Corporation, New York, N. Y. Underfeed stoker. 1,691,949; Nov. 20.
Wiegel, Albert, Cassel, Germany. Sleeve holder. 1,692,527; Nov. 20.
Wieland, Max, Berlin-Tempelhof, Germany. Manufacture of bichromate-glue printing plates for hand printing or press deep printing. 1,692,528; Nov. 20.
Wildman Mfg. Co. (See Richter, Wolfgang D., assignor.)
Wildt, Edwin. (See Peuckert, Friedrich H., assignor.)
Wilkins, George H., Brockton, assignor to Geo. E. Keith Company, Campello, Mass. Shoe creaser. 1,692,481; Nov. 20.
Williams, Charles F., Stoneham, Mass. Engraving machine. 1,692,103; Nov. 20.
Williams, E. J., et al. (See Shaffer, William D., assignor.)
Williamson, Alva, San Bernardino, Calif. Tilting device for vehicles. 1,692,715; Nov. 20.
Wilson, Herbert, assignor to The Dura Company, Toledo, Ohio. Handle construction. 1,692,013; Nov. 20.
Wilson, James, Great Falls, Mont. Rotary plow. 1,692,282; Nov. 20.
Wilson, Mirza J., Kenmore, Ohio. Bumper. 1,692,482; Nov. 20.
Wine, William E., Toledo, Ohio. Ventilated freight car. 1,692,238; Nov. 20.
Winn, Luke R., Sioux City, Iowa. Calipers. 1,692,014; Nov. 20.
Winters & Crompton Manufacturing Company. (See Geske, Carl, assignor.)
Wired Radio, Inc. (See Hanson, Malcolm P., assignor.)
Wired Radio, Inc. (See Trogner, Arthur M., assignor.)
Witham, George S., jr., Hudson Falls, N. Y. Beating engine. 1,692,602; Nov. 20.
Woerfel, Rudolph A., and H. Knopp, Sawyer, Wis. Anti-rattling device. 1,692,239; Nov. 20.
Wolcott, Irving L., and W. H. Grant, Cleveland, Ohio; said Grant assignor to said Wolcott. Pressure gauge. 1,692,360; Nov. 20.
Wolf, John, and E. Leschhorn, Chicago, Ill., assignors to Latham Machinery Company. Stitching machine. 1,692,016; Nov. 20.
Wolf, John, Chicago, Ill., assignor, by mesne assignments, of one-half to Latham Machinery Company and one-half to F. J. Greene, Racine, Wis. Stitching machine. 1,692,017; Nov. 20.
Wolf, Robert E., Chicago, Ill. Control knob and indicator. 1,692,605; Nov. 20.
Wolfe, Archie R., Summit, N. J. Multipole multibranch electric switch. 1,692,068; Nov. 20.
Woodall-Duckham (1920) Limited. (See Reber, James W., assignor.)



Wooldridge, John, assignor of one-half to L. W. Farr, Childress, Tex. Cotton gin. 1,692,362; Nov. 20.
Woolson, Harry T., assignor to Chrysler Corporation, Detroit, Mich. Balancing pneumatic tires. 1,692,145; Nov. 20.
Worms, Jacques, Paris, France, assignor to The J. G. Brill Company, Philadelphia, Pa. Car truck. 1,692,606; Nov. 20.
Woytych, Raymond M. (See Kempton, H. E., Gallimore, and Woytych.)
Wrenn, Henry B. P., deceased, Cleveland, Ohio; O. P. Moon, administrator, assignor to A. M. Hahn, Aurora Hills, Va. Cable support. 1,692,104; Nov. 20.
Wright, Arthur, Upper Montclair, and F. W. Young, Verona, N. J. Filtration apparatus. 1,691,950; Nov. 20.
Yale & Towne Manufacturing Company, The. (See Lach, Joseph S., assignor.)
Yale & Towne Manufacturing Company, The. (See Potter, Robert S., assignor.)
Young, Arthur W., and M. E. Louth, assignors to Udylite Process Company, Kokomo, Ind. Cadmium-plating bath. 1,692,240; Nov. 20.
Young, Frank W. (See Wright, A., and Young.)
Young, Lafayette, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo. Rest bar and guide box for metal-rolling mills. 1,692,788; Nov. 20.
Young, Lafayette, Alton, Ill., assignor to Laclede Steel Company, St. Louis, Mo. Magnetic coiling device. 1,692,789; Nov. 20.
Yulil, John L. (See Fernbach, A., and Yulil.)
Zagorski, Johann, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to American Luigi Corporation, New York, N. Y. Machine for making hollow tubes or conductors. 1,692,529; Nov. 20.
Zerk, Oscar, now, by judicial change of name, O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation. Grease gun. 1,692,319; Nov. 20.
Zerk, Oscar, now, by judicial change of name, O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation. Lubricating apparatus. 1,692,320; Nov. 20.
Zerk, Oscar, now, by judicial change of name, O. U. Zerk, Oscar.)
Zlock, Edward J., Rockford, Ill. Apparatus for drying and shaping knitted articles. 1,692,430; Nov. 20.
Zisch, George J., Newark, N. J. Instantaneous electric water heater. 1,692,321; Nov. 20.
Zuschlag, Theodore, assignor to The Taumac Corporation, New York, N. Y. Method and apparatus for locating ore bodies. 1,692,530; Nov. 20.
Zwart, Klaas, Sheboygan Falls, Wis. Signal means for boiling liquids. 1,692,363; Nov. 20.
Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Glass bowl. Des. 76,973; Nov. 20.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 20TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Abrasive and carrier, Combined. M. C. Hutto. 1,692,661; Nov. 20.
Abrasive wheel. G. O. Burlew. 1,692,329; Nov. 20.
Acid from ammonia, Production of nitric. L. H. Greathouse. 1,692,298; Nov. 20.
Acid, Production of citric. A. Fernbach and J. L. Yuill. 1,691,965–6; Nov. 20.
Acoustic diaphragm. H. G. Pape. 1,692,800; Nov. 20.
Advertising device, Rotatable. W. J. Tanner. 1,692,594; Nov. 20.
Aeroplane safety device. H. Bergmann. 1,692,108; Nov. 20.
Air and gas cleaner. C. S. Hansard and A. E. Netzel. 1,691,971; Nov. 20.
Aircraft with rotative wings. J. de la Cierva. 1,692,081–2; Nov. 20.
Air heater, Plate. C. D. Mosher. 1,692,562; Nov. 20.
Airplane wing. E. A. Stalker. 1,691,942; Nov. 20.
Air spring. R. L. Gruss. 1,692,035; Nov. 20.
Air-tight heater. S. Loafea. 1,692,180; Nov. 20.
Alarm. S. Sotak, jr. 1,692,518; Nov. 20.
Alloy, Bearing-metal. K. Müller and W. Sander. 1,691,934–2; Nov. 20.
Anæsthetic and manufacturing same. W. J. Pope. 1,692,695; Nov. 20.
Animal trap. W. Cooper. 1,692,158; Nov. 20.
Antirattling device. R. A. Woerfel and H. Knopp. 1,692,239; Nov. 20.
Anvil, Hand. R. C. Tolmie. 1,692,004; Nov. 20.
Apparatus for producing articles by electrolytic deposition. G. Rosenqvist. Re17,141; Nov. 20.
Apparatus for walking on water. A. N. Sheldon. 1,692,055; Nov. 20.
Apparatus for washing the eyes. W. Strunz. 1,692,143; Nov. 20.
Articles adapted to resist abrasion, Manufacture of. R. S. Edmondson and E. Hahn. 1,692,725; Nov. 20.
Audion. J. R. Tolmie and T. M. Libby. 1,691,946; Nov. 20.
Autographic speed recorder. L. A. Weber. 1,692,713; Nov. 20.
Automatic switch. H. S. Becker. 1,692,367; Nov. 20.
Automobile arm rest. B. H. Payton. Des. 76,952; Nov. 20.
Automobile engine-hood retaining and locking means. A. C. McBride and F. W. Renworth. 1,692,558; Nov. 20.
Awning, Adjustable automobile. W. M. Glover. 1,691,969; Nov. 20.
Baffle plate for boiler flues. F. J. Lochen. 1,691,979; Nov. 20.
Bag: *See*—
Laundry bag.
Bag construction. Lady's hand and underarm. L. Goldsmith. 1,692,205; Nov. 20.
Balancing pneumatic tires. H. T. Woolson. 1,692,145; Nov. 20.
Ball: *See*—
Game ball.
Ballast-removing machine. E. Overmier. 1,691,933; Nov. 20.
Band wheel, Counterbalanced. W. Schwemlein. 1,692,581; Nov. 20.
Bar: *See*—
Claw bar. Towel bar.
Stall bar.
Bar and guide box for metal-rolling mills, Rest. L. Young. 1,692,788; Nov. 20.
Barricade, Foldable. H. P. Geiser. 1,691,926; Nov. 20.
Barrier. J. B. Strauss. 1,692,142; Nov. 20.
Base for loud-speaker units. J. S. Hemming. 1,692,737; Nov. 20.
Basket, Sheet-metal waste-paper. E. H. Salt. 1,692,765; Nov. 20.
Bath: *See*—
Cadmium-plating bath.
Battery: *See*—
Storage battery.
Bearing. W. A. Van Brunt. 1,692,007–8; Nov. 20.
Bearing, Antifriction. S. B. Haseltine. 1,692,658; Nov. 20.
Bearing boxing. S. A. Shields. 1,692,709; Nov. 20.
Bearing head for cutter shafts and the like, Detachable. C. L. Mattison. 1,692,460; Nov. 20.
Beating engine. G. S. Witham, jr. 1,692,602; Nov. 20.
Bed. A. G. Feldman. Des. 76,923; Nov. 20.
Bed, Folding. G. O. De Hass. 1,692,080; Nov. 20.
Bed or similar article, Child's. A. G. Feldman. Des. 76,922; Nov. 20.
Bedstead. G. J. Pike. Des. 76,954; Nov. 20.
Belt box. H. A. Peter. 1,691,936–7; Nov. 20.
Belting. E. F. Gingras. 1,691,968; Nov. 20.
Bench. F. Schwartz. Des. 76,961; Nov. 20.
Benzamine borate and making same. W. J. Pope. 1,692,696; Nov. 20.
Benzamine borate, Manufacture of. W. J. Pope. 1,692,697; Nov. 20.
Beveling machine for strip material. E. S. Mix and J. R. Whitehouse. 1,692,735; Nov. 20.
Binder, Loose-leaf. C. A. Finley. 1,692,641; Nov. 20.
Block: *See*—
Slit block.
Block and construction, Building. J. Eisenmann. Re17,137; Nov. 20.
Blowtorch. W. W. Haslett. 1,692,734; Nov. 20.
Boat, Folding trailer. W. I. Hallock. 1,692,208; Nov. 20.
Boat, Ice. P. Stone. 1,692,354; Nov. 20.
Boat, Sewer. S. W. jr., R. P., and B. D. McClave. 1,692 133; Nov. 20.
Bobbin support. L. B. Hasbrouck. 1,692,441; Nov. 20.
Body construction. J. H. Bourgon. 1,692,543; Nov. 20.
Boiler: *See*—
Egg boiler. Steam boiler.
Boiler. F. B. Howell. 1,692,122; Nov. 20.
Boiler furnace. E. A. Packard. 1,691,934; Nov. 20
Boiler structure with pulverized coal-burning furnace. G. Cantieny. 1,691,918; Nov. 20.
Book, Manifolding sales. E. K. Bottle. 1,691,914; Nov. 20.
Booth, Knockdown refreshment. A. W. Eichman. 1,692,252; Nov. 20.
Boring drill, Earth. C. E. Reed. 1,692,793; Nov. 20.
Bottle cap. J. C. Miles. 1,692,183; Nov. 20.
Bottling, Method and apparatus for. P. W. Shields and W. J. Blenko. 1,692,471; Nov. 20.
Bowl, Glass. J. Zweig. Des. 76,973; Nov. 20.
Box: *See*—
Belt box. Journal box.
Dispensing and cooling box. Measuring box.
Electric-appliance receiving box. Packing box.
Brace: *See*—
Furniture brace.
Bracket support, Electrical Wall-. H. D'Olier, jr. 1,692,251; Nov. 20.
Braid and making the same. C. J. Greenspan. 1,692,651; Nov. 20.
Brake: *See*—
Fluid-pressure brake. Track brake.
Brake and guard structure, Combination. J. E. De Long. 1,692,027; Nov. 20.
Brake for rotating shafts, Fluid. O. F. Jensen. 1,692,801; Nov. 20.
Brake for trailers, Automatic. J. Schlagenhauf. 1,692,141; Nov. 20.
Brake mechanism. H. A. Tuttle. 1,692,006; Nov. 20.
Brake mechanism, Propeller-shaft. J. C. Haggart, jr. 1,691,970; Nov. 20.
Braking mechanism for front wheels on motor cars. E. Poulet. 1,692,159; Nov. 20.
Broaching machine. J. Oakley. 1,692,564; Nov. 20.
Brooch or similar article. B. Mechlovits. Des. 76,949; Nov. 20.
Broom. M. C. Newton and J. A. Gremling. 1,691,985; Nov. 20.
Brush, Motor-driven. M. Kaplan. 1,692,744; Nov. 20.
Bucket. H. S. Atkinson. 1,692,195; Nov. 20.
Buckle, Belt. H. G. Hancock. 1 692,654; Nov. 20.
Buckle, Belt. A. Primak. 1,692,418; Nov. 20.
Buffer or bumper for amusement vehicles or cars. D. H. Scott. 1,692,095; Nov. 20.
Building construction. D. E. McAvoy. 1,692,508; Nov. 20.
Building material, Tar-laid. S. A. Gates. 1,692,438; Nov. 20.
Building slab and making same. C. E. McManus. 1,692,783; Nov. 20.
Bumper. E. H. McCloud. 1,692,751; Nov. 20.
Bumper. M. J. Wilson. 1,692,482; Nov. 20.
Bumper, Automobile. W. R. McGowen. 1,692,088; Nov. 20.
Burning liquid fuel, Method of and apparatus for. H. R. Marsh. 1,692,557; Nov. 20.
Burner: *See*—
Electric burner. Liquid-fuel burner.
Gas burner.
Bushing, Conduit. J. A. Spahn. 1,692,710; Nov. 20.
Cabinet, Dressing. J. J. McDonald. Des. 76,948; Nov. 20.
Cabinet, Drier. L. Judelson. 1,692,271; Nov. 20.
Cabinet for dispensing folded paper sheets. G. Carruthers. 1,692,156; Nov. 20.
Cabinet for ice cream and the like. C. G. Munters. 1,692,792; Nov. 20.
Cable guide and holder for boats, Anchor-. E. G. Erickson. 1,692,640; Nov. 20.
Cable support. H. B. P. Wrenn. 1 692,104; Nov. 20.





Cadmium-plating bath. A. W. Young and M. E. Louth. 1,692,240; Nov. 20.
Calendar. H. S. Bowman. 1,692,199; Nov. 20.
Calendar, Multiple-year. H. Nogrady. 1,692,758; Nov. 20.
Calendar, Perpetual. F. A. Stevenson. 1,692,392; Nov. 20.
Calender. E. Werner. 1,692,525; Nov. 20.
Calender doctor. C. G. Lindstrom. 1,692,747; Nov. 20.
Calipers. L. R. Winn. 1,692,014; Nov. 20.
Candle. S. T. Lane. Des. 76,943; Nov. 20.
Candy-making machine. E. C. Miller. 1,692,559; Nov. 20.
Candy, Marshmallow. W. W. Knorpp. Des. 76,942; Nov. 20.
Canopy for automobile windows. H. M. Magid. 1,692,457; Nov. 20.
Cap. D. Karger. Des. 76,941; Nov. 20.
Cap shooter. M. E. McPhail. 1,692,089; Nov. 20.
Car-body construction. W. B. Jupp. 1,692,377; Nov. 20.
Car body, Railway-. W. B. Jupp. Des. 76,940; Nov. 20.
Car construction. S. B. Haseltine. 1,692,657; Nov. 20.
Car, Dump. R. W. Motisher. 1,692,276; Nov. 20.
Car, Railway. W. B. Morton. 1,692,683; Nov. 20.
Car, Ventilated freight. W. E. Wine. 1,692,238; Nov. 20.
Car ventilator T. M. Hyman. 1,692,125; Nov. 20.
Carburetor. H. J. Harding. 1,692,299; Nov. 20.
Carrier and rack, Clothes-basket. C. E. Rohrig. 1,692,704; Nov. 20.
Cart, Baby. J. R. Millen. 1,692,135; Nov. 20.
Case: *See*—
Cigarette case. Vanity case.
Traveling case.
Cellulose acetate, Manufacture of. J. W. Bulmer. 1,692,622; Nov. 20.
Chair. C. B. Y. Geoffroy. Des. 76,027; Nov. 20.
Chassis for motor vehicles. E. R. Whitney. 1,692,603; Nov. 20.
Check issuing and adding machine. E. Kassner. 1,692,411; Nov. 20.
Chopper: *See*—
Meat chopper.
Cigarette and vanity case, Combined. J. J. Klein. 1,692,041; Nov. 20.
Cigarette case. F. W. Carpenter. 1,692,545; Nov. 20.
Cigarette clip. J. G. Habbart. 1,692,652; Nov. 20.
Cinematographic apparatus. E. Oehmichen. 1,692,092; Nov. 20.
Circuit-controlling means for ignition circuits of motor vehicles. F. A. Brownell. 1,692,155; Nov. 20.
Clamp: *See*—
Column clamp. Timber clamp.
Clamp. R. E. McIntosh. 1,692,218; Nov. 20.
Clamp for molding machines. W. J. Fiegel. 1,692,204; Nov. 20.
Clamp for slicing machines. W. P. Van Lammeren. 1,692,350; Nov. 20.
Clamping device for slicing machines. E. R. Fox. 1,692,338; Nov. 20.
Claw bar. A. E. Dayton and J. V. Carlsen. 1,692,722; Nov. 20.
Cleaner: *See*—
Air and gas cleaner. Vacuum cleaner.
Rust or scale cleaner.
Cleaning apparatus, Pipe-. W. H. Elliott. 1,692,028; Nov. 20.
Cleaning device, Suction. W. V. Orr. 1,692,137; Nov. 20.
Cleaning device, Window-. L. Hachenberg. 1,692,036; Nov. 20.
Cleaning gelatinous surfaces and the like. B. Sugden. 1,692,358; Nov. 20.
Cleanser, Hydroteeth. G. N. Moore. 1,692,047; Nov. 20.
Cleat-making and cleat and handle assembling machine. J. A. Gray. 1,692,033; Nov. 20.
Clip: *See*—
Cigarette clip.
Clock crystal. L. Stern. 1,692,424; Nov. 20.
Closet: *See*—
Water-closet.
Closure. J. C. Doweiko. 1,692,634; Nov. 20.
Closure for hydraulic intakes, Emergency. J. J. Keon. 1,692,127; Nov. 20.
Clothes hanger. C. S. Gerard. 1,692,084; Nov. 20.
Clothesline. T. J. James. 1,692,743; Nov. 20.
Clothespin. J. O. Carroll. 1,692,070; Nov. 20.
Clutch. A. J. Liedtke and C. J. Travers. 1,691,978; Nov. 20.
Clutch-actuating means for machine tools. W. L. Schellenbach. 1,692,705; Nov. 20.
Clutch control. A. Smith. 1,692,390; Nov. 20.
Clutches provided with a centrifugal mass, Construction of automatic. M. J. J. Rigolage. 1,692,703; Nov. 20.
Coffee mill for two different grinding materials, Wall. O. Exsternbrink. 1,692,162; Nov. 20.
Color-binding preparation, E. Schwarz. 1,692,389; Nov. 20.
Column clamp. C. M. Markham. 1,692,675; Nov. 20.
Communication system. M. P. Hanson. 1,692,118; Nov. 20.
Compressor. H. B. Halvorsen. 1,692,268; Nov. 20.
Compressor. C. F. Osgood. 1,692,269; Nov. 20.
Compressor. J. R. Thomas. 1,692,395; Nov. 20.
Compressor, Air. W. J. Smith. 1,692,473; Nov. 20.
Compressor-controlling mechanism. F. D. Holdsworth. 1,692 261; Nov. 20.
Compressor-controlling mechanism. F. D. Holdsworth. 1 692,263; Nov. 20.
Compressor-controlling mechanism. F. D. Holdsworth. 1,692,267; Nov. 20.
Compressor-unloading mechanism. C. F. Osgood. 1,692,262; Nov. 20.
Concrete mixer. G. Routledge and A. O. Norling. 1,692,280; Nov. 20.
Concrete mixer, Hopper. G. Jaeger. 1,692,374; Nov. 20.
Condenser, Variable. W. Aull, jr. 1,692,607; Nov. 20.
Conductor, Stranded sector-shaped. N. C. Davis. 1,692,767; Nov. 20.
Conduit coupling. F. M. Potter. 1,692,798; Nov. 20.
Connecter for implements, Handle. H. Cave and H. H. Fitzgerald. 1,692,110; Nov. 20.
Connection, Detachable. E. C. Wamelink. 1,692,477; Nov. 20.
Container for cooling bottled liquids. F. N. Henkel. 1,692,738; Nov. 20.
Container for fused-bifocal-lens blanks. W. C. Gamble. 1,691,925; Nov. 20.
Containers for compressed gases, Manufacture of. H. E. Strecke. 1,692,521; Nov. 20.
Control device for power winches and the like, Remote. E. Wägele. 1,692,009; Nov. 20.
Control means for clutches, brakes, and the like. F. Athimon. 1,692,070; Nov. 20.
Controlling mechanism. F. D. Holdsworth. 1,692,266; Nov. 20.
Controlling molten-glass flow, Apparatus for. C. B. Kingsley. 1,692,306; Nov. 20.
Cooker, Portable electric. M. Evans. 1,692,547; Nov. 20.
Cooking and other purposes, Apparatus for. F. H. Montreuil. 1,692,682; Nov. 20.
Cooking utensil, Electric. B. M. Fromknecht. 1,692,644; Nov. 20.
Cooler: *See*—
Water cooler.
Cooling and filtering apparatus, Milk. A. F. Ortiz. 1,692,760; Nov. 20.
Cooling device for the cylinders of internal-combustion engines. F. H. Royce. 1,692,385; Nov. 20.
Cord reel. D. B. Replogle. 1,692,517; Nov. 20.
Core structure, Collapsible. P. De Mattia. 1,692,249; Nov. 20.
Corn-popper, Electric. A. and M. Bersted. Des. 76,911; Nov. 20.
Corn-popping machine. D. W. Baker. 1,692,432; Nov. 20.
Corn-popping machine. W. D. Root. 1,692,575; Nov. 20.
Cotter-pin-locking means. G. T. Cooke. 1,692,026; Nov. 20.
Cotton gin. J. Wooldridge. 1,692,362; Nov. 20.
Counter for shoes. H. R. Garside. 1,692,165; Nov. 20.
Coupling: *See*—
Conduit coupling. Jump-ring coupling.
Cover, Hatch. J. F. Mackin. 1,692,782; Nov. 20.
Cracking and rectifying petroleum oils and the like, Method and apparatus for. J. M. Wadsworth. 1,692,476; Nov. 20.
Cracking mineral oil. A. E. Pew, jr., and H. Thomas. 1,692,786; Nov. 20.
Crane, Skimmer-scoop. J. E. Kirkham. 1,692,452; Nov. 20.
Crib. A. G. Feldman. 1,692,083; Nov. 20.
Crusher: *See*—
Ice crusher.
Crusher. J. A. Dormer and J. G. Malone. 1,692,161; Nov. 20.
Cultivator shovel, Self-cleaning. J. J. De Vries. 1,692,250; Nov. 20.
Cup: *See*—
Golf cup.
Cup or article of analogous nature, Candle. N. Lipsky. Des. 76,945; Nov. 20.
Cupboard, Antiproof. B. S. Bassett. 1,692,609; Nov. 20.
Curler, Eyelash. C. H. Locke. 1,692,341; Nov. 20.
Current-conducting apparatus. F. H. Matthew, M. A. Broadbere, and F. C. B. Vosgerau. 1,692,087; Nov. 20.
Cutter: *See*—
Rotary cutter.
Cutting gears, Method and apparatus for. H. E. Stonebraker. 1,692,520; Nov. 20.
Cyanides, Manufacture of alkaline. S. Coulier. 1,691,960; Nov. 20.
Cyanides of the perylene series, Manufacture of. A. Pongratz. 1,692,417; Nov. 20.
Cylinder mold, Paper and pulp making. T. Harvey. 1,692,733; Nov. 20.
Damper control. O. Petersen. 1,692,465; Nov. 20.
Davenport, Overstuffed-bed. O. E. Putty. 1,691,992; Nov. 20.
Decorating fish lures. J. B. Pagin. 1,692,222; Nov. 20.
Desk, Cabinet. L. Knaster. 1,692,665; Nov. 20.
Desulphurising hydrocarbon oils. R. C. Moran. 1,692,756; Nov. 20.
Diagnostic instrument. C. E. H. Armbruster. 1,692,241; Nov. 20.
Digger: *See*—
Potato digger.
Die head. S. F. Newman and J. G. Harper. 1,692,514; Nov. 20.
Diestock. L. V. Stoeltzlen. 1,692,353; Nov. 20.
Dies for forming throat sheets for boilers. W. Nees. 1,692,684; Nov. 20.
Digger and separator, Potato. C. F. Möller. 1,692,343; Nov. 20.

Dish or analogous article, Covered. G. C. Thompson. Des. 76,963; Nov. 20.
Dishpan. W. S. Thayer. 1,692,003; Nov. 20.
Dishwashing machine. C. L. Templeton. 1,692,190; Nov. 20.
Disintegrator for liquids, Centrifugal. W. S. Bowen. 1,692,617; Nov. 20.
Dispenser for paper napkins and the like. S. A. Merrin. 1,692,463; Nov. 20.
Dispensing and cooling box, Beverage. H. R. Loosley. 1,692,672; Nov. 20.
Dispensing apparatus, Beverage-. C. M. Cordley. Des. 76,916; Nov. 20.
Dispensing surgical plaster. R. P. Hayden. 1,692,503; Nov. 20.
Display and storage rack. L. L. McGoogan. 1,692,679; Nov. 20.
Display device. L. R. Conwell. 1,692,404; Nov. 20.
Display rack. W. H. Averill. 1,692,324; Nov. 20.
Display stand. E. A. Locke, jr. 1,692,748; Nov. 20.
Display stand. R. J. Rader. 1,692,311; Nov. 20.
Display stand. F. Sobel. Des. 76,962; Nov. 20.
Diving equipment. H. Stelzner. 1,692,591; Nov. 20.
Doll. J. Miller. Des. 76,950; Nov. 20.
Doll-house construction. R. Nitschke and H. Salois. 1,692,346; Nov. 20.
Door closer. R. S. Potter. 1,692,699; Nov. 20.
Door-controlling mechanism for elevators. J. Rice. 1,692,187; Nov. 20.
Door engine. P. M. Griffin. 1,692,034; Nov. 20.
Door hanger. J. Dickey. 1,692,632; Nov. 20.
Door hook. M. A. Estabrooks. 1,692,726; Nov. 20.
Door opener and closer. H. H. Bliss and K. Porter. 1,692,541; Nov. 20.
Door opener and closer, Sliding-. A. E. Small. 1,692,228; Nov. 20.
Door, Ventilating. L. S. Barr. 1,692,484; Nov. 20.
Doors and the like, Constructing vault or safe. G. M. Goldsmith and C. Bartels. 1,692,550; Nov. 20.
Draft equalizer. G. W. Culp. 1,692,113; Nov. 20.
Drawbar. J. R. Blackhall. 1,692,109; Nov. 20.
Drawing and flattening sheet glass, Method and apparatus for. E. T. Ferngren. 1,692,548; Nov. 20.
Drawing apparatus, Sheet-glass-. J. A. Reece. 1,692,569; Nov. 20.
Drawing device. S. W. Boggs. 1,692,326; Nov. 20.
Dress. K. E. Burns. Des. 76,914; Nov. 20.
Drier A. J. Lurry. 1,692,749; Nov. 20.
Drill: *See*—
Boring drill. Rotary drill.
Drills, Mud guard for submarine. C. C. Hansen. 1,692,440; Nov. 20.
Drying and shaping knitted articles, Apparatus for. E. J. Ziock. 1,692,430; Nov. 20.
Drying apparatus. W. S. Gates. 1,692,498; Nov. 20.
Drying apparatus, Fur-. H. A. Alter and M. Schwartzman. 1,692,716; Nov. 20.
Drying frame, Hinged. P. J. Timberlake. 1,692,523; Nov. 20.
Drying means for yarn-sizing machines. P. Greve. 1,692,373; Nov. 20.
Duplicating machine. O. E. Braitmayer. 1,691,917; Nov. 20.
Dust cap, Quick-detachable. A. E. Bronson. 1,692,024; Nov. 20.
Dyeing cellulose derivatives. H. Eichwede, E. Fischer, and C. E. Müller. 1,692,492–3; Nov. 20.
Dynamometer for use in measuring the tension in a rope, cable, or the like. W. S. Smith and A. D. Shuter. 1,692,057; Nov. 20.
Egg boiler, Automatic. K. Thielicke. 1,692,144; Nov. 20.
Ejector for coin-handling machines. A. Monson. 1,692,561; Nov. 20.
Electric-appliance-receiving box, Convertible. J. Sachs. Re17,138; Nov. 20.
Electric burner. C. M. Osterheld. 1,692,221; Nov. 20.
Electric drive, Combination. C. Froesch. 1,692,371; Nov. 20.
Electric flasher device. W. Dubilier. 1,692,292; Nov. 20.
Electric furnace. J. Weitz. 1,692,478–9; Nov. 20.
Electric heater. W. Hurst. 1,692,741; Nov. 20.
Electric motor. J. W. Hobbs. 1,692,408; Nov. 20.
Electric switch. J. M. Miller. 1,691,984; Nov. 20.
Electric switch, Multiple multibranch. A. R. Wolfe. 1,692,068; Nov. 20.
Electrical connection. T. H. McComsey. 1,692,678; Nov. 20.
Electrical means for controlling lifts and the like. A. Bosselut. 1,692,542; Nov. 20.
Electricity meter. J. Harris. 1,692,636; Nov. 20.
Electrode to be applied to the human body. E. Last. 1,692,669; Nov. 20.
Electrolytic apparatus. F. C. Nixon. 1,692,757; Nov. 20.
Electromagnet. W. S. Smith. 1,692,056; Nov. 20.
Electromagnetically-actuated switch. G. H. Chapman. 1,691,920; Nov. 20.
Electromotor. B. Heger. 1,692,735; Nov. 20.
Electron-emission device. F. T. May. Des. 76,947; Nov. 20.
Electrothermal device. O. C. Traver. 1,692,474; Nov. 20.
Enameling furnace. R. E. Talley. 1,692,060; Nov. 20.
Engine: *See*—
Heating engine. Internal-combustion engine.
Door engine. Oil engine.
Gas engine. Pump and like engine.
Engine lubricator, Steam-. P. Dorsey. 1,692,202; Nov. 20.
Engine with counterrunning pistons, Internal-combustion. J. G. Grönvall. 1,692,499; Nov. 20.
Engraving machine. C. F. Williams. 1,692,103; Nov. 20.
Envelope and other article of paper. L. Medveczky. 1,692,219; Nov. 20.
Esters for use as anæsthetics and making same, Amino aromatic. E. Ritsert. 1,692,224; Nov. 20.
Ethyl-alcohol substitute and making same. R. M. Isham. 1,692,662; Nov. 20.
Expansion means for furnaces. M. M. Rote. 1,692,576; Nov. 20.
Explosive. F. H. Bergeim. 1,691,955; Nov. 20.
Extension staging, Multiple-unit single-control. M. Kirsch. 1,692,664; Nov. 20.
Extractor for forging machines, Pin. F. A. Halleck. 1,692,264; Nov. 20.
Fabric by combined knitting and weaving, Producing a. F. H. Feuckert. 1,692,567; Nov. 20.
Fan construction, Generator-. W. B. Jupp. 1,692,376; Nov. 20.
Fastener, Cap. R. Busey. 1,692,719; Nov. 20.
Fastener for crates. J. O. Turner. 1,692,590; Nov. 20.
Fastener for roofing sheets. D. R. Bard. 1,692,401; Nov. 20.
Fastener, Hinged pin. G. A. King. 1,692,778; Nov. 20.
Fastener, Slider-operated. G. W. Blair. 1,692,196; Nov. 20.
Fastener, Snap. L. Reiter and A. B. Colby. 1,692,701; Nov. 20.
Fastener, Tie. F. Kremski and H. Siemering. 1,692,043; Nov. 20.
Fastener, Tire-chain. A. L. McKinnon. 1,692,752; Nov. 20.
Fastening device and operating the same, Flexible. N. Statham. 1,691,999; Nov. 20.
Fastening device, Automatic. A. L. J. Gérard. 1,692,295; Nov. 20.
Fastening, Tie-rod. S. Paul. 1,692,565; Nov. 20.
Faucet and soap dish, Combination. F. W. Frankenberger. Des. 76,923; Nov. 20.
Feeding and delivering apparatus for platen printing presses, Sheet. K. Vicum. 1,692,597; Nov. 20.
Feeding and operating upon articles, Mechanism for. C. F. Newpher. 1,692,416; Nov. 20.
Feeding device. A. Bargeboer. 1,692,536; Nov. 20.
Feeding device for automatic firearms, Cartridge-. J. M. Browning. 1,692,328; Nov. 20.
Feeding device for automatic firearms, Cartridge-. C. Pfeiffer. 1,692,277; Nov. 20.
Feeding glass, Method and apparatus for. K. E. Peiler. 1,692,464; Nov. 20.
Feeding machine, Paper-. T. C. Dexter. 1,691,963; Nov. 20.
Feeding machine, Record-. F. M. Carroll. 1,691,910; Nov. 20.
Feeding means for tile-cleaning machines, Screen-. H. D. Lillibridge. 1,692,556; Nov. 20.
Feeding mechanism. J. Van Buren. 1,691,947; Nov. 20.
Feeding mechanism for printing presses, Sheet-. H. M. Barber. 1,692,023; Nov. 20.
Feeding mechanism for stocking-seaming machines. W. B. Long and L. Sliwa. 1,692,130; Nov. 20.
Feeding mechanism, Glass-. R. La France. 1,692,553; Nov. 20.
Feeding mechanism, Needle-. H. Nacken. 1,692,380; Nov. 20.
Felly, Wheel. D. B. Moran, sr. 1,692,344; Nov. 20.
File, Record. H. P. Thompson. 1,692,231; Nov. 20.
Filler for radiator pans. W. H. Hinz. 1,692,039; Nov. 20.
Filter, Acoustic wave. G. W. Stewart. 1,692,317; Nov. 20.
Filtering and bottling fluids under pressure, Apparatus for. G. Strimer. 1,692,393; Nov. 20.
Filtration apparatus. A. Wright and F. W. Young. 1,691,950; Nov. 20.
Fire-extinguishing apparatus and system, Automatic. W. J. Perkins. 1,692,052; Nov. 20.
Fish screen. G. C. Kinney. 1,692,451; Nov. 20.
Fishing reels, Level-wind mechanism for. C. T. Pflueger and W. L. Adams. 1,692,466; Nov. 20.
Fishing-tool guide. R. D. Hill and W. W. Foster. 1,691,972; Nov. 20.
Flash light. C. Ocean. 1,691,089; Nov. 20.
Flash light. A. Sundh. 1,692,394; Nov. 20.
Flash-light apparatus, Electric. G. Dalén. 1,692,629; Nov. 20.
Flatiron support. C. E. Wensel. 1,692,599; Nov. 20.
Floor outlet. E. A. Staples. 1,692,097; Nov. 20.
Fluid-pressure brake. H. E. Marsh. 1,692,676; Nov. 20.
Fluid under pressure, Apparatus for storing. L. J. Le Mesurier. 1,692,670; Nov. 20.
Flying horse. C. R. Harding. 1,692,655; Nov. 20.
Footwear. J. Benda. 1,692,539; Nov. 20.
Forming a hinge leaf. S. W. Parsons. 1,692,785; Nov. 20.
Forming and welding end rings for rotor bars. K. L. Hansen and W. J. Oesterlein. 1,692,407; Nov. 20.





Forming a protective and preservative coating upon fruit and the like, Process and apparatus for. E. M. Brogden. 1,692,286; Nov. 20.
Fountain tank. H. K. Pinkerton and F. L. Rhyndress. 1,692,223; Nov. 20.
Frame: *See*—
Drying frame. Turbine frame.
Frame and casing for punching machines, Combined. L. R. Le Tang. Des. 76,944; Nov. 20.
Friction element and producing same. I. J. Novak. 1,692,136; Nov. 20.
Fruit-packing device. R. E. Martin. 1,692,677; Nov. 20.
Fuel and fuel ingredients. J. W. Orelup and O. I. Lee. 1,692,784; Nov. 20.
Fuel and making same, Motor. L. Kirschbraun. 1,692,176; Nov. 20.
Fuel atomizer for internal-combustion engines, Direct-injection. V. Archaouloff. 1,692,107; Nov. 20.
Fuel-burning apparatus, Pulverized-. G. P. Jackson. 1,691,929; Nov. 20.
Furnace: *See*—
Boiler furnace. Oil furnace.
Electric furnace. Open-hearth furnace.
Enameling furnace. Regenerative furnace.
Heating furnace.
Furnace for the decomposition of alkali-metal chlorides. J. Kersten. 1,692,175; Nov. 20.
Furnace wall. P. McKenzie. 1,692,134; Nov. 20.
Furniture brace. G. W. L. Prettyman. 1,692,563; Nov. 20.
Fuse, Detonating. W. L. Lukens and N. Greenwell. 1,692,455; Nov. 20.
Fuse, Electric. V. Hope. 1,692,445; Nov. 20.
Gaff hook. G. L. Bellile and F. Reissmann. 1,692,325; Nov. 20.
Game ball, Inflatable. G. R. Jacobus. 1,692,305; Nov. 20.
Game, Baseball. S. Anderson. 1,691,952; Nov. 20.
Game, Horse-race. J. Barthel. 1,692,402; Nov. 20.
Game, Society. A. Spilling. 1,169,519; Nov. 20.
Garment. R. R. Blanshan. 1,691,957; Nov. 20.
Garment, Nether. A. E. Robertson. 1,692,350; Nov. 20.
Gas burner. M. Nuss. 1,692,282; Nov. 20.
Gas burner. G. F. Reznor. 1,692,186; Nov. 20.
Gas engine. B. C. Stickney. 1,691,944; Nov. 20.
Gas producer. F. L. Duffield. 1,692,724; Nov. 20.
Gas regulator, Fuel-. J. Quinlan. 1,692,467; Nov. 20.
Gauge: *See*—
Pressure gauge.
Gear, Change-speed transmission. L. C. Fuller. 1,692,406; Nov. 20.
Gear, Hydraulic steering. C. V. Koons. 1,692,666; Nov. 20.
Gear, Retractable landing. W. Watt, jr. 1,692,010; Nov. 20.
Generator: *See*—
Oscillation generator.
Generating pure sine waves of electromotive force, Apparatus and method for. H. Nyquist. 1,691,986; Nov. 20.
Glass and producing the same, Laminated. W. F. Brown. 1,692,619; Nov. 20.
Glass, Method and apparatus for producing charges of molten. L. D. Soubier. 1,692,589; Nov. 20.
Glass, Method of and apparatus for drawing. A. E. Spinasse. 1,692,585; Nov. 20.
Glue-applying apparatus. L. R. Muskat. 1,692,048; Nov. 20.
Golf cup. C. J. Paterson. 1,691,935; Nov. 20.
Golf tee. P. G. Towsley. 1,692,191; Nov. 20.
Golfing tee. P. F. Van Patten. 1,692,233; Nov. 20.
Grate, Chain. J. Van Brunt. 1,692,598; Nov. 20.
Grate, Fire. A. S. R. Araujo. 1,692,323; Nov. 20.
Grate, Ornamental fireplace. R. W. Auer. 1,692,021; Nov. 20.
Grease gun. A. T. Shere. 1,692,423; Nov. 20.
Grease gun. O. Zerk. 1,692,319; Nov. 20.
Grease-gun filler. C. Spaeth. 1,692,058; Nov. 20.
Grease gun, Universal. W. H. Fulton. 1,692,255; Nov. 20.
Grinding head. J. L. Drake. 1,692,635; Nov. 29.
Grinding machine. E. E. Drowns. 1,692,769; Nov. 20.
Grip for golf clubs or the like, Hand. I. O. Denman and C. W. Watson. 1,692,201; Nov. 20.
Guns, Training mechanism for. W. Akemann. 1,692,364; Nov. 20.
Gypsum-block machine. G. H. A. Ruby. 1,692,420; Nov. 20.
Hand bag, Lady's. G. Palau. Des. 76,951; Nov. 20.
Handle: *See*—
Implement handle. Tool handle.
Handle construction. H. Wilson. 1,692,013; Nov. 20.
Handle for operating levers. K. Eklund. 1,691,923; Nov. 20.
Handling broke, Method and apparatus for. H. G. Cram. 1,692,112; Nov. 20.
Hanger: *See*—
Clothes hanger. Joist hanger.
Door hanger.
Harp. V. Hull. 1,692,123; Nov. 20.
Hat. A. C. Huber. 1,692,740; Nov. 20.
Hat lining and size reducer, P. Rosenberg. 1,692,419; Nov. 20.
Headlight, Dirigible. G. S. Keck. 1,692,173; Nov. 20.
Headlight for automobiles and the like, Dirigible. G. S. Keck. 1,692,172; Nov. 20.
Headlight-operating mechanism, Automobile. S. L. and F. C. Tucker. 1,692,100; Nov. 20.
Heat control for cooking utensils. R. A. Botts. 1,692,153; Nov. 20.
Heat-transfer apparatus. C. W. Stancliffe. 1,692,391; Nov. 20.
Heatable sludge-digestion chamber for sewage treatment. K. Imhoff. 1,692,446; Nov. 20.
Heater: *See*—
Air heater. Electric heater.
Air-tight heater. Water heater.
Heater. H. E Fromm. 1,692,164; Nov. 20.
Heating and forming method, Electrical. A. G. Dannell. 1,692,488; Nov. 20.
Heating and ventilating unit. M. J. Callahan. 1,692,330; Nov. 20.
Heating apparatus, Engine. J. Good. 1,692,297; Nov. 20.
Heating device, Electric. J. F. Lamb. 1,692,781; Nov. 20.
Heating furnace. R. E. Bissell. 1,692,614; Nov. 20.
Heating water, System for. J. E. Gannon. 1,692,646; Nov. 20.
Helicopter, R. Wagner. 1,692,397; Nov. 20.
Hinge. C. Geske. 1,692,032; Nov. 20.
Hinge for jewelry. G. Candas. 1,692,434; Nov. 20.
Holder, adjustable. D. Forbes. 1,692,337; Nov. 20.
Holder, Bag. W. B. Hebbard. 1,692,443; Nov. 20.
Holder, Blotter. F. C. Partell. 1,692,384; Nov. 20.
Holder, Book. J. W. Gearhart. 1,692,727; Nov. 20.
Holder, Collapsible tube. H. M. Greist. 1,692,116; Nov. 20.
Holder, Identifying ribbon or check. A. C. Forte. 1,692,643; Nov. 20.
Holder, License-plate. W. H. Rex. 1,692,469; Nov. 20.
Holder, Menu-card. R. O. Harding. 1,692,038; Nov. 20.
Holder, Nursing-bottle. M. S. Sullivan. 1,692,098; Nov. 20.
Holder, Scarf. E. Strassel. 1,692,002; Nov. 20.
Holder, Sleeve. A. Wiegel. 1,692,527; Nov. 20.
Holder, Strip-map. F. A. Pullen. 1,692,348; Nov. 20.
Holder, Window-sash. A. M. Gunderson. 1,692,731; Nov. 20.
Holder, Window sign. C. M. Kimball. 1,692,450; Nov. 20.
Holder, Work. H. E. Kempton, K. F. Gallimore and R. M. Woytych. 1,692,379; Nov. 20.
Holder, Work. J. L. Perkins and H. D. Croft. 1,692,566; Nov. 20.
Hook: *See*—
Door hook. Gaff hook.
Hopper feed for metal-working machines. B. H. Mortus. 1,692,275; Nov. 20.
Hopper for tobacco-feeding machines, Constant-level. C. W. Gooch, jr. 1,692,648; Nov. 20.
Horn, Fluid-pressure. H. E. Anderson. 1,692,766; Nov. 20.
Horoscopic interpretation apparatus for hours and days. A. Abromeit. 1,692,105; Nov. 20.
Hosiery machine, Full-fashioned-. W. D. Richter. 1,692,279; Nov. 20.
Humidifer. W. K. Gammeter. 1,691,967; Nov. 20.
Hydraulic press. W. Ferris. 1,692,771; Nov. 20.
Ice-cream cutting and coating machine. W. E. Urschel. 1,692,427; Nov. 20.
Ice crusher. C. M. Smith. 1,692,472; Nov. 20.
Igniter. E. F. Clark. 1,692,627; Nov. 20.
Illuminated pointing head. L. Bennington. 1,692,612; Nov. 20.
Illuminating all kinds of hollow members, Device for. F. F. Leiter. 1,692,554; Nov. 20.
Implement handle, Electrically-heated. C. M. Chapman. 1,692,626; Nov. 20.
Incinerator, Garbage and refuse. F. R. Jones. 1,692,448; Nov. 20.
Index, Card. J. L. Rowley. 1,692,140; Nov. 20.
Indicating device. E. C. Wells. 1,692,012; Nov. 20.
Indicator: *See*—
Liquid-level indicator. Tactual indicator.
Speed indicator. Thermal indicator.
Indicator. F. B. Newell. 1,692,513; Nov. 20.
Indicator for tables, Place. C. F. Jacobs. 1,692,742; Nov. 20.
Inductance, Variable. N. H. Clough. 1,692,331; Nov. 20.
Injector, Water-softener. C. A. Stickney. 1,692,592; Nov. 20.
Internal-combustion engine. E. R. Burtnett. 1,692,025; Nov. 20.
Internal-combustion engine. E. C. Gundelach. 1,692,730; Nov. 20.
Internal-combustion engine. W. H. Hill. 1,692,339; Nov. 20.
Internal-combustion motor. G. B. Collier. 1,692,628; Nov. 20.
Jack: *See*—
Lifting jack.
Jack. M. A. Hirschl. 1,692,444; Nov. 20.
Joint: *See*—
Mortise joint. Universal joint.
Rail joint.
Joint. E. J. Serpas. 1,692,708; Nov. 20.
Joist hanger. F. N. Ropp. 1,692,351; Nov. 20.
Journal box. F. O. Reemer 1,692,570; Nov. 20.
Jump-ring coupling. G. W. Goodridge and W. J. Gagnon. 1,692,649; Nov. 20.
Key for collapsible tubes, Coiling. H. Kielberg. 1,692,213; Nov. 20.
Keyhole lock. W. Logg. 1,692,671; Nov. 20.
Kit, Flagman's. W. Leach. 1,692,746; Nov. 20.

Knitting machine. A. E. Page. 1,692,691; Nov. 20.
Knob and indicator, Control. R. E. Wolf. 1,692,605; Nov. 20.
Knot catcher and yarn cleaner. J. K. Altemus. 1,692,399; Nov. 20.
Lace. J. V. Price. Des. 76,956; Nov. 20.
Lacing-stud-setting machine. G. W. Brown. 1,692,246; Nov. 20.
Lacquers, Brushing. S. D. Shipley. 1,692 584; Nov. 20.
Ladder. S. Kramer. 1,691,976; Nov. 20.
Lamp. B. Ames. 1,692,069; Nov. 20.
Lamp, Electric post. M. A. C. de Castro. 1,692,540; Nov. 20.
Lamp stand. A. Colucci. Des. 76,915; Nov. 20.
Lamp, Therapeutic. W. T. Lewis. 1,692,413; Nov. 20.
Lamps, Supplemental resistance for serially-mounted. A Lampl. 1,692,272; Nov. 20.
Lasting machine. A. F. Pym. 1,692 278; Nov. 20.
Latch. J. H. Bean. 1,692,366; Nov. 20.
Latch, Cabinet. A. C. D'Alfonso. 1,692,248; Nov. 20.
Latch for covers for typewriting machines. J. Waldheim. 1,692,428; Nov. 20.
Latch, Spring-controlled. T. O. Schrader. 1,692,579; Nov. 20.
Latching device for radiator caps. A. C. Lippert. 1,692,179; Nov. 20.
Latching device, Radiator-cap-. A. C. Lippert. 1,692,178; Nov. 20.
Laundry bag, Paper. T. E. Jewell. 1,692,777; Nov. 20.
Lavatory. C. R. Crane, 2d. Des. 76,917–18; Nov. 20.
Laying linoleum or the like. C. N. Wenrich. 1,692,480; Nov. 20.
Lens. P. P. Horni. 1,692,303; Nov. 20.
Life guard or obstruction remover for motor, road, and other vehicles. V. J. P. Clifford. 1,692,369; Nov. 20.
Lifter: *See*—
Valve lifter.
Lifting arrangement, Load-. C. D. Bonsall. 1,692,197; Nov. 20.
Lifting jack. J. W. Hobbs. 1,692,169; Nov. 20.
Lifting jack. J. A. Morrison. 1,692 345; Nov. 20.
Light: *See*—
Flash light.
Light for an automobile, Dome. W. Schnell. Des. 76,959; Nov. 20.
Light or globe attaching apparatus. J. B. Epstein and W. Shenkm. 1,692,029; Nov. 20.
Lighting and battery-charging systems, Reverse-current cut-out for vehicle. B. M. Leece. 1,692,216; Nov. 20.
Lighting fitting. E. L. Randall. 1,691,938; Nov. 20.
Limb, Artificial. H. W. Karn. 1,692,552; Nov. 20.
Link, Emergency repair. R. R. Roth. 1,692,577; Nov. 20.
Liquid-fuel burner. F. A. Quiroz and E. H. Peabody. 1 692,349; Nov. 20.
Liquid-level indicator. H. Farman. 1,692,163; Nov. 20.
Locating ore bodies, Method and apparatus for. T. Zuschlag. 1,692,530; Nov. 20.
Lock: *See*—
Keyhole lock.
Lock attachment for pockets, Watch-. C. Capuano. 1,692,200; Nov. 20.
Lock for doors, Double. T. H. Joseph. 1,692,663; Nov. 20.
Lock for paper fasteners. F. J. Kline. 1,692,780; Nov. 20.
Lock means, Automobile. J. S. Lach. 1,692,668; Nov. 20.
Locking device. J. C. Irwin. 1,691,975; Nov. 20.
Locking device, Insulator-. R. S. Dickey and P. A. Carnahan. 1,691,964; Nov. 20.
Locking mechanism. E. H. Thomas. 1,692,595; Nov. 20.
Locomotive-cab seat. W. A. Newman. 1,692,685; Nov. 20.
Locomotive construction. H. M. Pflager. 1,692,693; Nov. 20.
Locomotive driving boxes, Lateral-motion device for. J. G. Blunt. 1,692,616; Nov. 20.
Loom, Narrow-fabric. J. C. Ward. 1,692,192; Nov. 20.
Loom, Power. R. and E. Knobel. 1,692,307; Nov. 20.
Loom shuttle motion. A. J. Vervaet. 1,692,475; Nov. 20.
Loud speaker. C. W. Peterson. 1,692,762; Nov. 20.
Loud-speaker unit. R. B. Wheelan. 1,692,600; Nov. 20.
Lubricating apparatus. O. Zerk. 1,692,320; Nov. 20.
Lubricator: *See*—
Engine lubricator.
Lubricator. J. J. Hennessy. 1,692,258; Nov. 20.
Luggage-carrying attachment for use with motor and other vehicles, Collapsible. D. W. Isaacs. 1,692,085; Nov. 20.
Machine and system of transmission, Quick-excited. R. D. Evans, C. F. Wagner, A. D. Dovjikov, and E. B. Shand. 1,692,495; Nov. 20.
Machine for drying fabrics and papers in an endless web. A. Lambrette. 1,692,129; Nov. 20.
Machine for feeding beaded blanks. J. M. Lynch and W. S. Gilmour. 1,692,456; Nov. 20.
Machine for forming glass articles. J. E. McLaughlin. 1,692,680; Nov. 20.
Machine for making cardboard and similar boxes. N. P. Andrew, W. L. Macfe, and R. W. Rose. 1,692,534; Nov. 20.
Machine for making flexible pads. O. G. Schmitt. 1,692,387; Nov. 20.
Machine for making hollow tubes or conductors. J. Zagorski. 1,692,529; Nov. 20.
Machine for making mattresses. E. H. Falk. 1,691,924; Nov. 20.
Machine for obtaining the register of the etchings for multicolor intaglio printing cylinders. A. Dultgen and A. Weiss. 1,692,636; Nov. 20.
Machine for operating on filler pieces for shoes. G. H. Heys. 1,692,259; Nov. 20.
Machine for rejecting faulty separators. F. B. Rae and V. A. Smith. 1,692,700; Nov. 20.
Machine for spinning cotton and other textile materials. A. Turati. 1,692,357; Nov. 20.
Machine for use in the manufacture of shoes. W. C. Baxter. 1,692,284; Nov. 20.
Machinery, Shaper head for woodworking. W. E. Glatt and E. Hermann. 1,691,927; Nov. 20.
Machinery, Woodworking. W. W. Stoddard. 1,692,230; Nov. 20.
Magnetic coiling device. L. Young. 1,692,789; Nov. 20.
Magnetic motor. S. Osser. 1,692,761; Nov. 20.
Magnetic separation, Method of and apparatus for. R. H. Stearns. 1,692,590; Nov. 20.
Magnetizing and demagnetizing metal alloys, Rapid. S. Osser. 1,692,690; Nov. 20.
Magneto. P. Brown and I. E. Hendrickson. 1,692,718; Nov. 20.
Mantle for gas burners. J. E. Steffens. 1,692,000; Nov. 20.
Marking machine, Soap-. C. W. Aiken. 1,692,322; Nov. 20.
Marmalade and producing the same, Dried. H. L. Hulburt. 1,692,040; Nov. 20.
Measuring apparatus for the thickness of webs. W. Beckmann and A. Schopper. 1,692,243; Nov. 20.
Measuring box. F. J. Straub. 1,692,356; Nov. 20.
Measuring device. F. L. Dunn. 1,692,637; Nov. 20.
Measuring distance. H. C. Hayes. 1,692,119; Nov. 20.
Meat chopper. R. Roessler. 1,692,574; Nov. 20.
Mechanical movement. J. A. Dormer. 1,692,160; Nov. 20.
Mechanism for direct mechanical adjusting of the abutment for the thread guides on flat hosiery frames. E. Glück. 1,692,168; Nov. 20.
Menu or advertising device, Adjustable. J. Dicomes and P. Janos. 1,692,633; Nov. 20.
Mercury and producing same, Organic compound of. E. C. White. 1,692,237; Nov. 20.
Merry-go-round. J. G. C. Akers. 1,692,106; Nov. 20.
Metal-reforming method and apparatus. J. L. Auble. 1,692,400; Nov. 20.
Metal wheel. J. M. Jones. Re17,140; Nov. 20.
Meter: *See*—
Electricity meter.
Mining apparatus. M. P. Holmes. 1,692,260; Nov. 20.
Mixer: *See*—
Concrete mixer.
Mixing machine. S. Babitzky and V. Mathe. 1,692,022; Nov. 20.
Mold: *See*—
Cylinder mold.
Mold for musical-instrument bodies or similar articles. R. B. Lattin. 1,692,340; Nov. 20.
Mold for musical-instrument mouthpieces. W. F. Schmals and R. E. Dodd. 1,692,352; Nov. 20.
Mold for vaults and the like. J. L. Janisch. 1,692,447; Nov. 20.
Molds, Hot top for ingot. M. G. Dumas. 1,692,491; Nov. 20.
Molds, Making hollow. H. Barkschat. 1,692,433; Nov. 20.
Molder's chaplet. H. Stuart. 1,692,426; Nov. 20.
Molding machine, Block-. F. J. Straub. 1,692,355; Nov. 20.
Mop wringer. H. B. Tarbox. 1,692,099; Nov. 20.
Mortise joint. C. E. Skaggs and B. E. Logan. 1,692,586; Nov. 20.
Mortising machine. R. Sánchez. 1,692,580; Nov. 20.
Motor: *See*—
Electric motor. Magnetic motor.
Internal-combustion motor. Oscillating motor.
Mounting for instrument panels, Lamp. D. E. Keeney. 1,692,449; Nov. 20.
Mowers, Attachment for lawn. J. B. Paine and J. W. Spradley. 1,692,135; Nov. 20.
Multiphase equipment protection. A. N. Orr and S. H. Goldberg. 1,692,138; Nov. 20.
Musical instruments, Stopping mechanism for stringed. J. Mokreja. 1,693,560; Nov. 20.
Naphthalene, Catalytic oxidation of. A. O. Jaeger. 1,692,126; Nov. 20.
Necklace or similar article. E. A. Schuelke. Des. 76,960; Nov. 20.
Needle for repairing runs in knitted goods. C. E. B. Osberg. 1,692,220; Nov. 20.
Needle, Runner-mender. J. E. Shepperack. 1,692,583; Nov. 20.
Nibbling machine. G. N. Hutchinson and G. S. Carden. 1,691,928; Nov. 20.
Noise eliminator, Tappet-. A. Clemensen. 1,692,435; Nov. 20.
Nuts, Making lock. J. G. Furlan. 1,692,497; Nov. 20.
Oilcloth. H. W. Dieck. Des. 76,920–1; Nov. 20.
Oil engine. O. A. Banner. 1,692,150; Nov. 20.
Oil furnace. V. B. Sounitza. 1,691,941; Nov. 20.
Oil-well packer. A. P. Machris. 1,692,181; Nov. 20.
Oils, Process and apparatus for fractionating hydrocarbon. J. C. Black. 1,692,072; Nov. 20.
Oilss, Drinking-water-serving. E. J. Tobin. 1,692,002; Nov. 20.
Open-hearth furnace. F. R. McGee. 1,691,982; Nov. 20.





Organs, Pneumatic action for pipe. F. Lamontagne. 1,692,507; Nov. 20.
Oscillating motor. J. W. Hobbs. 1,692,409; Nov. 20.
Oscillation generator. W. H. Burtis. 1,692,074; Nov. 20.
Oven, Automatic baking. F. F. Oviedo. 1,692,515; Nov. 20.
Oven rack. F. M. Delaih. 1,692,630; Nov. 20.
Oxides, Apparatus for reducing metallic. W. H. Smith. 1,692,587; Nov. 20.
Oxides, Reducing metallic. W. H. Smith. 1,692,588; Nov. 20.
Package for cigars, candy, and the like. H. H. Jones. 1,692,410; Nov. 20.
Packaging machine. H. H. Wanders. 1,692,429; Nov. 20.
Packaging surgical napkins. R. P. Hayden. 1,692,504; Nov. 20.
Packer for working barrels. P. H. Bray. 1,692,485; Nov. 20.
Packing box. R. H. Pangborn. 1,692,049; Nov. 20.
Packing, Fluid-tight. J. A. Brooks. 1,692,403; Nov. 20.
Packing fruits, vegetables, and other products. L. H. Caskey. 1,692,625; Nov. 20.
Packing head, Oil-well. W. D. Shaffer. 1,692,582; Nov. 20.
Packing of wire or the like. A. Saulter. 1,691,995; Nov. 20.
Pads, Apparatus for making. O. G. Schmitt. 1,692,386; Nov. 20.
Panel. W. M. Schwartz. Re17,144; Nov. 20.
Paper and paper stock and producing the same. L. Graffin. 1,692,774; Nov. 20.
Paper drying and apparatus therefor. A. E. Montgomery. 1,691,930; Nov. 20.
Paper, Safety. L. Gailer. 1,692,645; Nov. 20.
Parking device for automobiles and the like. I. K. Rystedt. 1,692,578; Nov. 20.
Paste tube. F. A. Scott. 1,692,096; Nov. 20.
Pencil and eraser therefor. M. Allard. 1,692,483; Nov. 20.
Pencil, Magazine lead. F. E. Mayol. 1,691,981; Nov. 20.
Perforating device, Paper-. F. J. Kline. 1,692,779; Nov. 20.
Perforating inscriptions, ornamentations, or the like on sheet material, Apparatus for. J. Levy. 1,692,454; Nov. 20.
Pharmaceutical product. W. J. Pope. 1,692,698; Nov. 20.
Phonograph and radio aparatus, Combined. M. Nystrom. 1,691,987; Nov. 20.
Phonograph and radio receiving apparatus, Combined. J. W. Bishop. 1,692,797; Nov. 20.
Phonographic copying machine. A. W. Caps and I. E. Leininger. 1,692,544; Nov. 20.
Physiologically-active substances from organs, Manufacture of. W. Merkl. 1,692,509; Nov. 20.
Picture frame. J. M., and M. D. Pelletier. Des. 76,953; Nov. 20.
Piezo-electric-crystal apparatus. A. M. Trogner. 1,692,068; Nov. 20.
Pin or article of similar nature. P. O. Powell. Des. 76,955; Nov. 20.
Pin-setting machine, Automatic. J. W. Bishop. 1,692,796; Nov. 20.
Pistol or gun, Air. G. S. Lewis. 1,692,555; Nov. 20.
Planter. S. E. Bailor. 1,692,608; Nov. 20.
Plastic resinous material and making same. H. M. Weber. 1,692,524; Nov. 20.
Plate. E. M. Bottome. Des. 76,913; Nov. 20.
Plate. E. A. De Lan. Des. 76,919; Nov. 20.
Plate and hanger, Floor. W. R. Rein. 1,692,571; Nov. 20.
Plate for a dial mechanism, Escutcheon. W. A. Ready. Des. 76,957; Nov. 20.
Plate for a vernier dial, Escutcheon. J. Geloso. Des. 76,926; Nov. 20.
Plate or similar article. U. Tomita. Des. 76,964–72; Nov. 20.
Plow, Rotary. J. Wilson. 1,692,282; Nov. 20.
Plowshare, Self-sharpening. J. P. H. Jakobsen. 1,692,086; Nov. 20.
Pocket guard. C. Tannebaum. 1,692,712; Nov. 20.
Potato digger. J. Reuther. 1,692,468; Nov. 20.
Power-transmission chain. H. E. Sturtevant. 1,692,799; Nov. 20.
Power-transmission device, Automatic speed-changing. H. J. Murray. 1,692,091; Nov. 20.
Power-transmission mechanism. A. Abramson. 1,692,531; Nov. 20.
Press: *See*—
Hydraulic press.
Pressure gauge. I. L. Wolcott and W. H. Grant. 1,692,360; Nov. 20.
Printer, Optical. F. H. Owens. 1,692,347; Nov. 20.
Printing plates for hand printing or press deep-printing, Manufacture of bichromate-glue. M. Wieland. 1,692,528; Nov. 20.
Printing plates specially for poster printing, Producing. C. A. Adam. 1,692,283; Nov. 20.
Producer or shaft furnace. J. W. Reber. 1,692,572; Nov. 20.
Protector, Plant. S. K. Smith. 1,692,229; Nov. 20.
Puller: *See*—
Rope puller.
Pulley. C. B. Rogers. 1,691,993; Nov. 20.
Pulley for pan conveyers, Magnetic. J. P. Bethke. 1,692,613; Nov. 20.
Pulverizer. T. C. Alfred. 1,691,951; Nov. 20.
Pump. H. L. Elsner. 1,692,639; Nov. 20.
Pump and like engine. M. G. de Rueda. 1,692,290; Nov. 20.
Pump, Deep-well. W. C. Parrish. 1,692,050; Nov. 20.
Pump, Multistage. W. C. Dowd. 1,692,291; Nov. 20.
Pumping mechanism. C. W. Hughes. 1,692,304; Nov. 20.
Punch. E. H. Salt. 1,692,764; Nov. 20.
Purification of nitraniline. H. Merrill. 1,692,308; Nov. 20.
Purifying gases containing phosphorus. G. Pisor and E. Borsbach. 1,692,787; Nov. 20.
Rack: *See*—
Display rack. Shoe rack.
Display and storage rack. Ware rack.
Oven rack.
Rack for drying ovens. J. D. Elder. 1,692,294; Nov. 20.
Radial stay tongs. A. A. Cochran. 1,692,077; Nov. 20.
Radiator, Motor-vehicle. R. H. Carpmael. 1,692,721; Nov. 20.
Radio broadcast selecting and distributing systems. E. E. Clement. Re17,142; Nov. 20.
Radio direction and position finder. M. L. Patterson. 1,692,051; Nov. 20.
Radio receiving apparatus. A. M. Trogner. 1,692,064; Nov. 20.
Radiofrequency amplifying circuits. W. J. Polydoroff. 1,692,763; Nov. 20.
Rail filler. A. C. Fischer. 1,694,642; Nov. 20.
Rail joint. C. K. Freer. 1,692,254; Nov. 20.
Railroad coupler attachment. H. P. Speer. 1,692,281; Nov. 20.
Railway-crossing guard. F. P. Miller. 1,692,184; Nov. 20.
Range. W. L. Gregg. 1,692,650; Nov. 20.
Range, Electric. A. W. Walker. 1,692,065; Nov. 20.
Receptacle. H. C. Ash. 1,692,794; Nov. 20.
Receptacle, Metal. S. Hammer. 1,692,653; Nov. 20.
Receptacle, Refuse. S. D. Bundy. 1,692,287; Nov. 20.
Receptacle, Sectional garbage and refuse. W. G. and M. A. Ives. 1,692,170; Nov. 20.
Recorder: *See*—
Autographic speed.
Recording mechanism. J. B. Barkerville. 1,692,611; Nov. 20.
Reel: *See*—
Cord reel.
Reenforcing the edges of strip material. W. M. Wheildon. 1,692,236; Nov. 20.
Reenforcement bar for concrete steel and manufacturing the same. E. Hoffmann. 1,692,505; Nov. 20.
Refrigerating machine. G. Roos. 1,692,053; Nov. 20.
Refrigeration. A. Lenning. 1,692,791; Nov. 20.
Refrigeration. C. G. Munters. 1,692,790; Nov. 20.
Refrigerator or cabinet. L. G. Copeman. 1,692,159; Nov. 20.
Regenerative furnace. H. Bangert and G. Hühn. 1,691,913; Nov. 20.
Register mechanism. W. W. Crow. 1,691,961; Nov. 20.
Regulator: *See*—
Gas regulator.
Removing caps from paper cores, Device for. M. J. Malloy and E. A. Buck. 1,692,274; Nov. 20.
Resilient wheel. A. E. Stenberg. 1,692,001; Nov. 20.
Resilient wheel. J. Warner. 1,692,011; Nov. 20.
Rheostat. A. C. Brady. 1,691,916; Nov. 20.
Rivets, Inserting tubular. F. Mayer. 1,692,182; Nov. 20.
Roofing elements and product thereof, Apparatus for producing. W. T. Hofmann. 1,692,210; Nov. 20.
Rope puller. J. O. Grenier. 1,692,728; Nov. 20.
Rotary cutter. F. P. Miller. 1,691,983; Nov. 20.
Rotary drill, Hydraulic-feed. O. B. Anderson. 1,692,431; Nov. 20.
Ruling apparatus for characters. K. Castan. 1,692,149; Nov. 20.
Rust or scale cleaner, Rotary. K. H. V. Gustafsson. 1,692,500; Nov. 20.
Rust prevention. R. A. Sealey. 1,692,706; Nov. 20.
Safety device for automatic screw machines. O. A. Russell. 1,692,314; Nov. 20.
Safety device for multiple-spindle screw machines, Crank-handle. C. W. Simpson. 1,692,315; Nov. 20.
Safety device, Gas-cock. C. Roose. 1,692,188; Nov. 20.
Safety device, Submarine. R. M. Johnson. 1,692,506; Nov. 20.
Safety device, Vault-door. J. B. Lischke. 1,692,044; Nov. 20.
Scalding poultry, Apparatus for. W. C. Barrier. 1,692,365; Nov. 20.
Scale, Leaf-spring-type, Weighing. M. J. Weber. 1,692,102; Nov. 20.
Scouring device. J. J. Brell. 1,692,244; Nov. 20.
Scraper, Tractor-driven. V. P. Marran. 1,692,750; Nov. 20.
Scraper, Wheeled. P. C. Anderson. 1,692,018; Nov. 20.
Screen: *See*—
Fish screen. Window screen.
Seal, Hermetic. E. Scofield. 1,692,189; Nov. 20.
Seat: *See*—
Locomotive-cab seat.
Server, Combination food. P. H. Bendero. Des. 76,909; Nov. 20.
Sewing machine, Inseam-. E. I. La Chapelle. 1,692,453; Nov. 20.
Sewing machines, Attachment for. A. Sawers. 1,692,094; Nov. 20.
Shade support for lamps. J. J. Foley. 1,692,772; Nov. 20.
Shade, Window. A. D. Sears. 1,692,707; Nov. 20.

Shaker or similar article, Salt or pepper. J. W. Jennings. Des. 76,931–9; Nov. 20.
Shears. H. G. R. Vulliet and F. A. H. Deschâtres. Re17,139; Nov. 20.
Shears for cutting jar rings and similar circular washers. H. A. Lonsway. 1,691,980; Nov. 20.
Sheet-glass apparatus. N. Mambourg. 1,692,673; Nov. 20.
Sheet-glass down flow apparatus. J. C. Blair. 1,692,615; Nov. 20.
Sheet glass, Method and apparatus for forming. J. A. Reece. 1,692,702; Nov. 20.
Shifting device for drills on bookbinding machines. N. S. Welk. 1,692,318; Nov. 20.
Shingle. W. A. Schollmeyer. 1,692,388; Nov. 20.
Shingle or block construction. A. C. Fischer. Re17,143; Nov. 20.
Shock absorber and the like. J. C. Segeler. 1,692,227; Nov. 20.
Shock absorber for motor cycles. L. Szabo. 1,692,593; Nov. 20.
Shock-absorbing mechanism. S. B. Haseltine. 1,692,659; Nov. 20.
Shock-absorbing mechanism, Friction. F. F. Ericksou. 1,692,253; Nov. 20.
Shock-absorbing mechanism, Friction. H. J. Lounsbury. 1,692,273; Nov. 20.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,692,687–9; Nov. 20.
Shocker. G. B. West. 1,692,526; Nov. 20.
Shoe and arch preserver. M. Minutillo. 1,692,510; Nov. 20.
Shoe and arch support therefor. W. M. Hurley. 1,691,974; Nov. 20.
Shoe creaser. G. H. Wilkins. 1,692,481; Nov. 20.
Shoe making or repairing apparatus. S. W. Burtchaell. 1,692,623; Nov. 20.
Shoe-polishing machine. J. Hoffman. 1,692,120; Nov. 20.
Shoe rack. C. A. Monsees. 1,692,681; Nov. 20.
Shovel: *See*—
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Shutter control for printing tabulators, Zero-. W. W. Lasker. 1,692,215; Nov. 20.
Sign, Adjustable street. W. K. Voorhees. 1,692,234; Nov. 20.
Sign, Advertising. J. Huefner. Des. 76,929; Nov. 20.
Sign for vehicles, Detachable. R. L. Sanches. 1,691,939; Nov. 20.
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Signaling device. B. A. Crenshaw. 1,692,333; Nov. 20.
Signaling means for toy tracks, Automatic. H. S. Becker. 1,692,285; Nov. 20.
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Signaling system, Selective. C. S. Demarest. 1,691,962; Nov. 20.
Signaling system, Wave. L. A. Hazeltine. 1,692,257; Nov. 20.
Silo. E. Barthelmess. 1,692,610; Nov. 20.
Slicing machines, Gripping device for. J. Folk. 1,692,336; Nov. 20.
Slide for extension tables. C. E. Bowers. 1,692,618; Nov. 20.
Sliding signal. J. C. Rorison. 1,692,313; Nov. 20.
Slit block. R. Halpenny. 1,692,256; Nov. 20.
Socket and bulb base, Electric-light. P. S. Hall. 1,692,732; Nov. 20.
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Sounding device, Well-. E. P. Halliburton. 1,692,037; Nov. 20.
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Stranded sector-shaped conductor. N. C. Davis. 1,691,921; Nov. 20.
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Swimming device. C. Meyer. 1,692,753; Nov. 20.
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Textile fabric. L. Barker. Des. 76,908; Nov. 20.
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Thermometer. H. Y. Norwood. 1,692,381; Nov. 20.
Thermostatically-operated switch. E. L. Benson. 1,692,540; Nov. 20.
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Tire flaps, Producing. K. B. Kilborn. 1,692,128; Nov. 20.
Tire-repair patch. C. M. Semler. 1,692,054; Nov. 20.
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Tool for rail anchors, Applying. R. T. Scholes. 1,691,940; Nov. 20.
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Track brake. W. Miner. 1,692,090; Nov. 20.
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Traffic-controlling apparatus, Railway-. H. A. Thompson. 1,692,061; Nov. 20.
Trailer hitch. T. W. Austin and M. F. Swindle. 1,692,071; Nov. 20.
Train control. W. W. Wenholz. 1,692,361; Nov. 20.
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Treating oils. A. Schwarcman. 1,692,226; Nov. 20.
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Trolley mechanism. J. Hollis. 1,691,973; Nov. 20.
Trousers. J. Reichel. 1,692,312; Nov. 20.
Truck. G. Holmes. 1,692,121; Nov. 20.
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Turf-cutting device. H. B. Deane. 1,692,436; Nov. 20.
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Typewriting machine. W. A. Dobson. 1,691,922; Nov. 20.
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Upsetting or jolting machine, Electric. F. Brero. 1,692,327; Nov. 20.
Vacuum cleaner. V. L. Olson. 1,691,988; Nov. 20.
Vacuum vessel sealing. H. M. Badger. 1,691912; Nov. 20.
Valve. L. W. Eggleston. 1,692,770; Nov. 20.
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Valve for regulating gas flames. G. Schlusselburg. 1,692,421; Nov. 20.
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Valve, Slide stop. W. Fröb. 1,692,496; Nov. 20.
Valves of locomotives, Method of and apparatus for controlling the cut-off of distribution. A. W. Bruce and J. B. Ennis. 1,692,620; Nov. 20.
Valves, Rocker arm for internal-combustion-engine. W. H. Puckett. 1,691,991; Nov. 20.
Vanity case. H. and J. Heitel. 1,692,300; Nov. 20.
Vanity case, Combination. K. L. Allison. 1,692,194; Nov. 20.
Vaporizer, Carbureting. A. Coleman. 1,692,078; Nov. 20.
Vehicle signal. J. H. Reed. 1,692,516; Nov. 20.
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Vise and mount therefor. Z. A. Blanchard. 1,691,956; Nov. 20.
Voice placer. E. Keller. 1,692,174; Nov. 20.
Wall construction, Car-. C. D. Bonsall. 1,692,198; Nov. 20.
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Ware rack. D. Denelsbeck and C. D. Dille. 1,692,681; Nov. 20.
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Well-capping device and controlling head. A. O. Hessemer. 1,692,302; Nov. 20.
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# CLASSIFICATION OF PATENTS

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# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. & F. Pears Limited, London, to A. & F. Pears Limited, Isleworth, England. Perfumed toilet soap. 70,858; renewed Oct. 13, 1928.

A/S Si-Ko, Oslo, Norway. Tooth paste. 250,054; Nov. 27; Serial No. 268,260; published Sept. 18, 1928. Class 6.

Acme Products Limited, Winnipeg, Canada, and Detroit, Mich. Medicines. 249,926; Nov. 27; Serial No. 265,518; published Sept. 11, 1928. Class 6.

Adjusta Co., The, New York, N. Y. Buckles for personal wear. 250,165; Nov. 27. Class 40.

Air-Way Motor Oil Company, Chicago, Ill. Lubricating oils and greases. 250,013; Nov. 27; Serial No. 268,900; published Sept. 18, 1928. Class 15.

Alley Company, The, New Bedford, Mass. Food compound of rice, tapioca, and arrowroot. 249,964; Nov. 27; Serial No. 269,216; published Sept. 11, 1928. Class 46.

American Brass Company, The, Waterbury, Conn. Bronze ingots, castings, etc. 250,026–7; Nov. 27; Serial Nos. 267,475–6; published Sept. 11, 1928. Class 14.

American Chain Company, Inc., Bridgeport, Conn. Cotter pins. 250,162; Nov. 27. Class 13.

American Coach & Body Co., The, Cleveland, Ohio. Vehicle bodies and tops. 250,124; Nov. 27. Class 19.

American Fruit Distributors, Inc., Jacksonville, Fla. Fresh oranges and grapefruit. 250,056; Nov. 27; Serial No. 268,202; published Sept. 18, 1928. Class 46.

American Oil Corporation, Jackson, Mich. Lubricating oils, greases, and compounds. 249,963; Nov. 27; Serial No. 269,217; published Sept. 18, 1928. Class 15.

American Pin Co., Waterville, assignor to Scovill Manufacturing Company, Waterbury, Conn. Hooks and eyes. 73,147; renewed Mar. 23, 1929.

American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Granulated sugar. 73,098–8; renewed Mar. 16, 1929.

American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Hard sugar. 73,099–101; renewed Mar. 16, 1929.

American Thread Company, The, Jersey City, N. J., to The American Thread Company, New York, N. Y. Spool cotton, sewing cotton, and thread. 71,272; renewed Nov. 17, 1928.

Amoskeag Manufacturing Company, assignor, by mesne assignments, to Amoskeag Manufacturing Company, Manchester, N. H. Tickings. 71,953–4; renewed Dec. 22, 1928.

Ampt, Charles F., doing business as The Charles F. Ampt Company, Columbia Township, Hamilton County, Ohio. Medicated candy. 249,947; Nov. 27; Serial No. 270,529; published Sept. 18, 1928. Class 6.

Amtorg Trading Corporation, New York, N. Y. Matches. 249,936; Nov. 27; Serial No. 270,870; published Sept. 18, 1928. Class 9.

Anseth, Benjamin, doing business as Benjamin Leland & Company, St. Louis, Mo., assignor to Benjamin Leland & Company, St. Louis, Mo. Skin cream. 250,117; Nov. 27. Class 6.

Art Button Novelty M'f'g. Co., Inc., New York, N. Y. Buttons. 250,036; Nov. 27; Serial No. 266,452; published Sept. 11, 1928. Class 40.

Atlantic Commission Co., Inc., New York, N. Y. Fresh carrots, lettuce, beets, etc. 250,115; Nov. 27; Serial No. 267,526; published Aug. 21, 1928. Class 46.

Ayres, William, & Sons, Inc., Philadelphia, Pa. Pure-wool textile automobile blankets and robes. 250,140; Nov. 27. Class 42.

B. & J. B. Machado Tobacco Co. Ltd. (See Jamaica Tobacco Company, assignor.)

Babchin, Leo, New York, N. Y. Pearl necklaces and strings of pearls, etc. 249,991; Nov. 27; Serial No. 263,810; published Sept. 18, 1928. Class 28.

Bakers Supply & Equipment Co., St. Paul, Minn. Electric bake ovens. 250,047; Nov. 27; Serial No. 268,728; published Sept. 18, 1928. Class 21.

Barough Hermanos, Habana, Cuba. Perfumes, toilet powders, and toilet waters. 249,990; Nov. 27; Serial No. 263,914; published Sept. 18, 1928. Class 6.

Bartons Bias Company, New York, N. Y. Bias bindings, bias fagoting braid, elastic shoulder straps, etc. 249,929; Nov. 27; Serial No. 265,879; published Sept. 11, 1928. Class 40.

Baugh and Sons Company, Philadelphia, Pa. Fertilizer. 250,118–19; Nov. 27. Class 10.

Baugh and Sons Company, Philadelphia, Pa. Fertilizer. 250,125; Nov. 27. Class 10.

Beats-All Co., Chicago, Ill. Cleaner and polish. 249,960; Nov. 27; Serial No. 269,275; published Sept. 11, 1928. Class 16.

Bedner, Harry I., doing business as Quaker Fresh Fish Fillet Co., Philadelphia, Pa. Fresh fish fillets. 249,995; Nov. 27; Serial No. 262,948; published Aug. 7, 1928. Class 46.

Beir, Arthur, & Co., Inc., New York, N. Y. Cotton piece goods. 250,157; Nov. 27. Class 42.

Bermingham & Prosser Company, Chicago, Ill. Writing paper. 250,123; Nov. 27. Class 37.

Bessler Disappearing Stairway Co., The, doing business as The Disappearing Stairway Company and The Stairway Manufacturing Company, Akron, Ohio. Disappearing stairways. 250,154; Nov. 27. Class 12.

Bitterman, Simon, doing business as Jeru Artichoke Products Company, Denver, Colo. Artichoke flakes. 250,050; Nov. 27; Serial No. 268,670; published Sept. 18, 1928. Class 46.

Black, Joseph, & Sons Company, York, Pa. Stockings. 73,207; renewed Mar. 30, 1929.

Bloch Company, The, Cleveland, Ohio. Men's suits. 250,166; Nov. 27. Class 39.

Blomberg, Axel R., Stockholm, Sweden. Radioactive cloth, etc. 250,041; Nov. 27; Serial No. 269,711; published Sept. 11, 1928. Class 44.

Blue Ribbon Products Company, assignor to Gebauer & Kimpel, Baltimore, Md. Malt syrup. 250,104; Nov. 27; Serial No. 259,710; published Sept. 4, 1928. Class 46.

Bolotin & Shelnin, Chicago, Ill. Wedding rings, ring mountings, and diamond rings. 250,009; Nov. 27; Serial No. 268,962; published Sept. 18, 1928. Class 28.

Boyle Leather Goods Co. Inc., New York, N. Y. Traveling bags, hand bags, portfolios, etc. 250,116; Nov. 27. Class 3.

Brafman Bros., Brooklyn, N. Y. Ladies' textile underwear. 249,930; Nov. 27; Serial No. 265,944; published Sept. 4, 1928. Class 39.

Brighton Mills, Allwood, N. J.; Shannon, Ga.; and Passaic, N. J. Netted woven cord laundry bags of cotton. 249,982; Nov. 27; Serial No. 270,365; published Sept. 18, 1928. Class 2.

Brooking, Charles S., Kevil, Ky. Preparation for piles. 250,167; Nov. 27. Class 6.

Brown, Little B., doing business as The Chic-Tone Company, Angola, Ind. Poultry tonic. 250,039; Nov. 27; Serial No. 266,289; published Aug. 7, 1928. Class 6.

Bryant Electric Company, The. (See Perkins Electric Switch Manufacturing Company, The, assignor.)

C. G. Spring and Bumper Company, The, Detroit, Mich. Automobile bumpers. 250,128–9; Nov. 27. Class 19.

California Rex Spray Co., Benicia, Calif. Preparation for destroying rodents. 250,110; Nov. 27; Serial No. 269,941; published Sept. 18, 1928. Class 6.

Cape Ann Isinglass Company, Boston, Mass. Adhesive isinglass. 249,968; Nov. 27; Serial No. 269,084; published Sept. 11, 1928. Class 5.

Chemische Fabrik von Heyden, A. G., Radebeul, near Dresden, Germany, assignor, by mesne assignments, to Winthrop Chemical Company, Inc., New York, N. Y. Medicinal preparation. 250,063–4; Nov. 27; Serial Nos. 267,931–2; published Sept. 18, 1928. Class 6.

Chic-Tone Company, The. (See Brown, Little B.)

Cohen, Joseph H., doing business as The Perfection Motor Products Company, Bridgeport, Conn. Electric cigar lighters. 250,052; Nov. 27; Serial No. 268,585; published Sept. 18, 1928. Class 21.

Colgate & Co., Jersey City, N. J., and New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Chicago, Ill. Dental cream. 71,432; renewed Nov. 24, 1928.

Collingbourne Mills, Inc., Elgin, Ill. Golf tees. 250,055; Nov. 27; Serial No. 268,212; published Sept. 11, 1928. Class 22.

Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Tobacco containers, tobacco-pipe holders, etc. 250,020; Nov. 27; Serial No. 268,776; published Sept. 18, 1928. Class 8.

Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Multiple electric connecting devices. 250,095; Nov. 27; Serial No. 256,604; published Sept. 18, 1928. Class 21.

Compton, W. E., deceased, to Emily Compton, R. E. Compton, William F. Lofthouse, Bernard B. Wills, and Herbert A. Pearson, executors and trustees, doing business as Arthur James, Redditch, England, successor. Fishhooks. 65,988; renewed Nov. 5, 1927.

Corno Mills Company, The, East St. Louis, Ill. Horse feeds, poultry feeds, etc. 250,023; Nov. 27; Serial No. 267,633; published Sept. 11, 1928. Class 46.

Cottone Bros., Inc., Brooklyn, N. Y. Olive oil. 250,046; Nov. 27; Serial No. 269,639; published Sept. 11, 1928. Class 46.

Crafts, Arthur A., & Co., Boston, Mass. Diamond tools. 250,141; Nov. 27. Class 23.

Cream Dove Mfg. Co., Inc., Binghamton, N. Y. Cooking compounds, salad dressing, and prepared mustard. 250,101; Nov. 27; Serial No. 259,052; published Sept. 11, 1928. Class 46.

Curtis Candy Company, The, Chicago, Ill. Peanuts. 250,031; Nov. 27; Serial No. 266,978; published Sept. 18, 1928. Class 46.

Dairy Made Ice Cream Company, assignor to Dairy Made Ice Cream Company, Inc., Paterson, N. J. 250,127; Nov. 27. Class 46.

Dearborn Chemical Company, Chicago, Ill. Motor-lubricating oils. 250,018; Nov. 27. Serial No. 268,850; published Sept. 18, 1928. Class 15.

Direct Control Valve Company, Wilmington, Del., and Chicago, Ill. Heating valves and flush valves. 250,149; Nov. 27. Class 13.

Disappearing Stairway Company, The. (See Bessler Disappearing Stairway Co., The.)

Dispepcura Medicine Company, Nuevo Laredo, Tamaulipas, Mexico. Medicine for dyspepsia. 250,099; Nov. 27; Serial No. 258,799; published Sept. 11, 1928. Class 6.

Doniger, S., & Co., Inc., New York, N. Y. Surgical instruments. 250,084; Nov. 27; Serial No. 242,526; published Sept. 11, 1928. Class 44.

Dorr, Wallie, Co., Inc., New York, N. Y. Walking pull-toys. 250,073; Nov. 27; Serial No. 269,437; published Sept. 11, 1928. Class 22.

Double Seal Ring Company. (See Sells, Osborne P.)

Doud Milling Company, Manning, Iowa. Wheat flour, breakfast cereal, etc. 250,091; Nov. 27; Serial No. 251,492; published Sept. 11, 1928. Class 46.

Duncan May Candy Co., Inc., Montgomery, Ala. Stick candy. 249,988; Nov. 27; Serial No. 264,753; published Sept. 18, 1928. Class 46.

Egbert Concrete Products, Inc., Brooklyn, N. Y. Tiles. 250,163; Nov. 27. Class 12.

Ehrat, George, assignor, by mesne assignments, to Ehrat Cheese Company, Chicago, Ill. Olive-oil. 71,374; renewed Nov. 24, 1928.

Elkloid Company, The. (See Koppe, Gustave E.)

Em-It-Products Company, Snyder, Tex. Pickles. 249,944; Nov. 27; Serial No. 270,695; published Sept. 18, 1928. Class 46.

Enterprise Manufacturing Company, The, Akron, Ohio. Artificial bait. 250,005–6; Nov. 27; Serial Nos. 260,107–8; published Sept. 11, 1928. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing-reel parts. 250,007; Nov. 27; Serial No. 260,106; published Sept. 11, 1928. Class 22.

Evans Case Company, North Attleboro, Mass. Brooch pins. 250,049; Nov. 27; Serial No. 268,686; published Sept. 18, 1928. Class 28.

Everlasting Paint & Sales Company, Los Angeles, Calif. Paints. 249,996; Nov. 27; Serial No. 262,601; published Sept. 11, 1928. Class 16.

Fairchild Aviation Corporation, New York, N. Y. Motor boats. 250,045; Nov. 27; Serial No. 269,640; published Sept. 18, 1928. Class 19.

Federal Date and Fig Company, Detroit, Mich. Packages of washed dried figs. 249,998; Nov. 27; Serial No. 261,299; published Sept. 18, 1928. Class 46.

Federal Distributing Company, Newark, N. J. Incandescent lamps. 249,997; Nov. 27; Serial No. 261,748; published Sept. 18, 1928. Class 21.

Federal Mail Order Corporation, New York, N. Y. Watches, watch movements, etc. 250,017; Nov. 27; Serial No. 268,859; published Sept. 18, 1928. Class 27.

Florida Nut Company, St. Louis, Mo. Fresh, stuffed, and candied dates and toasted and salted nuts. 250,090; Nov. 27; Serial No. 251,328; published Sept. 18, 1928. Class 46.

Ford Motor Company, Fordson, Mich. Plate glass and lenses for automobiles. 250,072; Nov. 27; Serial No. 269,521; published Sept. 18, 1928. Class 33.

Forest Hills Company, doing business as Old Colony Brewing Co., Boston, Mass. Malt extracts. 250,098; Nov. 27; Serial No. 257,866; published Jan. 17, 1928. Class 46.

Fox Candy Co. (See Princess Confectionery Co.)

Fraser Valve Corporation, Newark, N. J. Nursing bottles. 250,067; Nov. 27; Serial No. 269,581; published Sept. 11, 1928. Class 44.

Friedman, Max L., et al, trustees. (See Marshall J., & Ball, Incorporated, assignors.)

Frye & Company, Seattle, Wash. Fresh garden lettuce. 250,135; Nov. 27. Class 46.

Gebauer & Kimpel. (See Blue Ribbon Products Company, assignor.)

General Petroleum Corporation of California, San Francisco, Calif. Gasoline. 250,111; Nov. 27; Serial No. 269,895; published Sept. 18, 1928. Class 15.

Gerber, Alfred, Thun, Switzerland. Cheese. 249,983; Nov. 27; Serial No. 270,374; published Sept. 11, 1928. Class 46.

Gill Brothers Company, Steubenville, Ohio. Lamp chimneys, lantern globes, and glass reflectors. 71,086; renewed Oct. 27, 1928.

Globe Stove and Range Company, The, Kokomo, Ind. Stoves and ranges. 73,004; renewed Mar. 9, 1929.

Godefroy Manufacturing Company, St. Louis, Mo. Skin cream. 250,012; Nov. 27; Serial No. 268,922; published Sept. 18, 1928. Class 6.

Graham Mill & Elevator Co., Graham, Tex. Wheat flour. 249,959; Nov. 27; Serial No. 269,288; published Sept. 11, 1928. Class 46.

Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Alarm clocks. 250,011; Nov. 27; Serial No. 268,924; published Sept. 18, 1928. Class 27.

Griffith-Durney Co., San Francisco, Calif. Canned fish. 250,002; Nov. 27; Serial No. 260,269; published July 17, 1928. Class 46.

Gustav Ruth Aktiengesellschaft, Wandsbek, Germany. Ready-mixed paints, paste paints, paint oils, etc. 249,927; Nov. 27; Serial No. 265,791; published Sept. 11, 1928. Class 16.

Haas-Lieber Grocery Company, St. Louis, Mo. Malt syrup. 250,066; Nov. 27; Serial No. 267,765; published Sept. 4, 1928. Class 46.

Harmony Dress Co., Inc., New York, N. Y. Frocks and dresses. 250,100; Nov. 27; Serial No. 258,812; published July 10, 1928. Class 39.

Hausman, Marx B., et al., trustees. (See Marshall, J., & Ball, Incorporated, assignors.)

Helland, John, Co., Chicago, Ill. Medicine. 249,937; Nov. 27; Serial No. 270,845; published Sept. 18, 1928. Class 6.

Helland, John, Co., Chicago, Ill. Medicine. 249,938; Nov. 27; Serial No. 270,844; published Sept. 18, 1928. Class 6.

Hirschman, W. F., Co., Inc., Leroy, N. Y. Wind-actuated roof ventilators. 250,166; Nov. 27. Class 34.

Hollings-Smith Co., Orangeburg, N. Y. Medicine. 249,948; Nov. 27; Serial No. 270,484; published Sept. 18, 1928. Class 6.

Holloway, M. J., & Co., Chicago, Ill. Candy. 249,977–8; Nov. 27; Serial Nos. 270,294–5; published Sept. 18, 1928. Class 46.

Hookless Fastener Company, Meadville, Pa. Separable fasteners. 250,113; Nov. 27; Serial No. 269,783; published Sept. 18, 1928. Class 18.

Hoosier Apple and Peach Growers, Inc., Indianapolis, Ind. Fresh fruits. 250,001; Nov. 27; Serial No. 260,826; published Sept. 18, 1928. Class 46.

House of Tre-Jur, Inc., New York, N. Y. Powder puffs. 250,076; Nov. 27; Serial No. 269,407; published Sept. 11, 1928. Class 29.

Howard, E., Watch Co., Riverside, N. J., and Waltham, Mass., assignor to Keystone Watch Case Corporation, Riverside, N. J. Watches. 71,680; renewed Dec. 8, 1928.

Hunt Brothers Packing Company, San Francisco, Calif. Canned fruits. 249,940; Nov. 27; Serial No. 270,770; published Sept. 18, 1928. Class 46.

Hyman, Max, & Co., Inc., New York, N. Y. Woolen goods in the piece. 250,074; Nov. 27; Serial No. 269,408; published Sept. 18, 1928. Class 42.

Imperial Candy Co., Seattle, Wash. Candy. 249,973; Nov. 27; Serial No. 270,186; published Sept. 18, 1928. Class 46.

International Agricultural Corporation, New York, N. Y. Fertilizers. 250,062; Nov. 27; Serial No. 267,960; published Sept. 18, 1928. Class 10.

International Manufacturing Co., The, to The International Handkerchief Manufacturing Company, New York, N. Y., successor. Handkerchiefs. 71,965–7; renewed Dec. 22, 1928.

International Millinery Co. Inc., New York and Albany, N. Y. Ladies' and misses' hats. 250,161; Nov. 27. Class 39.

International Musical Corporation, Hoboken, N. J. Stringed musical instruments. 250,059; Nov. 27; Serial No. 268,015; published Sept. 18, 1928. Class 36.

Jacobs, B. and J., Company, Cincinnati, Ohio. Radiator shields and radiator cabinets. 250,132; Nov. 27. Class 32.

Jaffee, L. J. & C. D., Inc., New York, N. Y. Gloves, pajamas, hats, caps, etc. 250,065; Nov. 27; Serial No. 267,772; published Aug. 28, 1928. Class 39.

Jamaica Tobacco Company, New York, N. Y., and Kingston, Jamaica, assignor to B. & J. B. Machado Tobacco Co. Ltd., Kingston, Jamaica. Cigars. 71,232; renewed Nov. 10, 1928.

James, Arthur. (See Compton, W. E.)

Jeru Artichoke Products Company. (See Bitterman, Simon.)

Judd Specialties Inc., Boston, Mass. Game-ball holders. 250,092; Nov. 27; Serial No. 251,505; published Sept. 11, 1928. Class 22.

Kadiak Fisheries Company, Seattle, Wash. Canned salmon. 249,939; Nov. 27; Serial No. 270,796; published Sept. 18, 1928. Class 46.

Kellogg Company, Battle Creek, Mich. Cereal breakfast food. 249,993; Nov. 27; Serial No. 263,321; published Sept. 11, 1928. Class 46.

Keyes Fibre Company, Fairfield, assignor to Keyes Fibre Company, Inc., Waterville, Me. Molded pulp plates and dishes. 72,284; renewed Jan. 12, 1929.

Keyes Fibre Company, Fairfield, assignor to Keyes Fibre Company, Inc., Waterville, Me. Molded pulp plates and dishes. 72,457; renewed Jan. 26, 1929.

Keystone Steel & Wire Company, South Bartonville (Peoria), Ill. Wire fence. 250,159; Nov. 27. Class 13.

Keystone Watch Case Corporation. (See Howard, E., Watch Co., assignor.)

Kleinert, I. B., Rubber Company, New York, N. Y. Stocking protectors. 250,131; Nov. 27. Class 39.

Kluge, Emile H., West New York, N. J. Political novelty or campaign package. 249,974; Nov. 27; Serial No. 270,190; published Sept. 18, 1928. Class 42.

Knapp Electric Corporation, Port Chester, N. Y. Toy or game. 250,109; Nov. 27; Serial No. 269,962; published Sept. 11, 1928. Class 22.

Knott, William R., Rochester, N. Y. Cleaning and polishing preparations. 250,044; Nov. 27; Serial No. 269,666; published Sept. 11, 1928. Class 16.

Koppe, Gustave E., doing business as The Elkloid Company, Providence, R. I. Dice, dice shakers, dominoes, etc. 249,951; Nov. 27; Serial No. 269,352; published Sept. 11, 1928. Class 22.

Kotobukiya Company Limited, Osaka-Shi, Japan. Tooth powders, tooth pastes, etc. 250,003; Nov. 27; Serial No. 260,180; published July 17, 1928. Class 6.



Kristol-Kold Company, Detroit, Mich. Refrigerators and refrigerating apparatus. 250,114; Nov. 27; Serial No. 269,770; published Sept. 18, 1928. Class 31.

La Fayette Roller Mills, La Fayette, Ga. Corn meal, dairy rations, etc. 249,969; Nov. 27; Serial No. 269,029; published Sept. 11, 1928. Class 46.

Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Refractory bonding material. 250,148; Nov. 27. Class 12.

Lee, Guy, Leather Company, Philadelphia, Pa. Sole leather. 250,158; Nov. 27. Class 1.

Leeper, Chester I., doing business as The Leepers Great Indian Medicine Co., Sioux City, Iowa. Medicinal preparations. 250,122; Nov. 27. Class 6.

Leland, Benjamin, & Company. (See Ansehl, Benjamin.)

Lesquendieu, Incorporated, New York, N. Y. Cream for the hands. 250,160; Nov. 27. Class 6.

Lesquendieu, Joseph, Paris, France, assignor to Lesquendieu, Incorporated, New York, N. Y. Cream rouge for the lips and lip stick. 250,085; Nov. 27; Serial No. 243,865; published July 19, 1927. Class 6.

Liberty Cake Company. (See Mayer, Edwin.)

Linseed Meal Educational Committee, Milwaukee, Wis. Linseed meal. 250,107; Nov. 27; Serial No. 273,483. Class 46.

Lofthouse, William F., et al., executors and trustees. (See Compton, W. E.)

Lord, F. T., Polish Co., Somerville, to F. T. Lord Polish Co., Cambridge, Mass. Metal polish. 73,188; renewed Mar. 30, 1929.

Lord, F. T., Polish Co., Cambridge, Mass. Silver polish, metal polish, and stove polish. 250,146; Nov. 27. Class 4.

Lucile Staff, Inc., New York, N. Y. Coats and hats. 249,989; Nov. 27; Serial No. 268,957; published Sept. 11, 1928. Class 39.

Malt Products Co. (See Milgram, Nat.)

Manitowoc Products Company, Manitowoc, Wis. Malt syrup. 249,950; Nov. 27; Serial No. 269,360; published Sept. 4, 1928. Class 46.

Manville Jenckes Company, Pawtucket, R. I. Voile in the piece of cotton, silk, or wool. 250,096; Nov. 27; Serial No. 257,244; published Sept. 18, 1928. Class 42.

Marochini, Philip, doing business as Marochini Chemical Company, Chicago, Ill. Hairdressing preparation. 250,008; Nov. 27; Serial No. 268,987; published Sept. 18, 1928. Class 6.

Marshall, J. & Ball, Incorporated, Newark, N. J., assignors to Marx B. Hausman and Max L. Friedman, trustees, New York, N. Y. Shoes. 69,537; renewed June 16, 1928.

Marvin, W. H., Company, The, Urbana, Ohio. Dried currants and mincemeat. 250,086; Nov. 27; Serial No. 246,490; published May 31, 1927. Class 46.

Mayer, Edwin, doing business as Liberty Cake Company, Philadelphia, Pa. Cakes. 249,966; Nov. 27; Serial No. 269,193; published Sept. 11, 1928. Class 46.

Mayfair Textile Corporation, New York, N. Y. Tablecloths, napkins, etc. 250,082; Nov. 27; Serial No. 266,942; published Sept. 18, 1928. Class 20.

McCann & Company, Inc., Pittsburgh, Pa. Eggs. 250,142; Nov. 27. Class 46.

McCaw Manufacturing Co., Macon, Ga., to The Procter & Gamble Company, Cincinnati, Ohio, successor. Cottonseed oil. 70,912; renewed Oct. 13, 1928.

McClintock-Trunkey Co., The, Spokane, Wash. Tuna fish, butter, coffee, etc. 250,097; Nov. 27; Serial No. 257,632; published Sept. 4, 1928. Class 46.

McCree, Wade H., doing business as McCree Products Company, Chicago, Ill. Healing salves. 250,058; Nov. 27; Serial No. 268,051; published Sept. 18, 1928. Class 6.

McDonald, Elizabeth A., New York, N. Y. Baggage bags. 250,053; Nov. 27; Serial No. 268,291; published Sept. 11, 1928. Class 3.

McNamara, Michael, Varnish Works, Detroit, Mich. Ready-mixed paints, varnishes, and lacquers. 250,024; Nov. 27; Serial No. 267,598; published Sept. 11, 1928. Class 16.

Meredith, Duane, Wichita Falls, Tex. Serum for the treatment of tuberculosis. 249,941; Nov. 27; Serial No. 270,773; published Sept. 18, 1928. Class 6.

Mid-Continent Lacquer Mfg. Co., Kansas City, Mo. Finishing lacquer. 250,137; Nov. 27. Class 16.

Midwest Chemical Products, Inc., Milwaukee, Wis. Scientific purge and preservative. 250,143; Nov. 27. Class 6.

Mid-West Incinerator Corporation, Chicago, Ill. Garbage incinerators. 250,126; Nov. 27. Class 34.

Mid-West Oil Company, Kansas City, Kans. Lubricating oils. 249,984; Nov. 27; Serial No. 270,385; published Sept. 18, 1928. Class 15.

Milgram, Nat, doing business as Malt Products Co., Kansas City, Mo. Malt syrup. 250,075; Nov. 27; Serial No. 269,417; published Sept. 4, 1928. Class 46.

Minneapolis-Honeywell Regulator Company, Wabash, Ind., and Minneapolis, Minn. Limiting device to work in conjunction with a regulator. 250,029; Nov. 27; Serial No. 267,375; published Sept. 18, 1928. Class 34.

Morris, Preston, Escalon, assignor to Salute Brand Association, San Joaquin and Stanislaus Counties, Calif. (Unincorporated). Fresh grapes. 250,094; Nov. 27; Serial No. 255,818; published Aug. 7, 1928. Class 46.

Mourtaoglou, Mourat, Weirton, W. Va. Ointment for rheumatism. 250,089; Nov. 27; Serial No. 250,935; published Sept. 18, 1928. Class 6.

Mueller Brass Co., Port Huron, Mich. Alloy metal mixture. 250,071; Nov. 27; Serial No. 269,537; published Sept. 11, 1928. Class 14.

Mueller Electric Company, Cleveland, Ohio. Connection clips. 249,985; Nov. 21; Serial No. 265,340; published Sept. 4, 1928. Class 21.

Mueller, L. J., Furnace Company, Milwaukee, Wis. Air moistener and humidifier. 250,160; Nov. 27. Class 34.

Murray Radiator Corporation, Brooklyn, N. Y. Air heating and cooling radiators. 250,121; Nov. 27; Class 34.

National Fireworks, Inc., West Hanover, Mass. Toy pistols. 250,068–70; Nov. 7; Serial Nos. 269,543–5; published Sept. 11, 1928. Class 22.

National Washboard Co., Chicago, Ill., and Saginaw, Mich. Washboards. 250,087; Nov. 27; Serial No. 247,865; published June 14, 1927. Class 24.

Nelson, J. A., St. Petersburg, Fla. Preparation for exterminating ants. 250,152; Nov. 27. Class 6.

Nones, A., & Co., New York, N. Y. Nuts. 250,022; Nov. 27; Serial No. 267,716; published Sept. 18, 1928. Class 46.

Ohio Brass Company, The, Mansfield, Ohio. Welding rods. 250,010; Nov. 27; Serial No. 268,934; published Sept. 11, 1928. Class 14.

Ohio Butterine Co., The, Cincinnati, Ohio. Oleomargarine. 250,139; Nov. 27. Class 46.

Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 249,923–4; Nov. 27; Serial Nos. 269,981–2; published Sept. 18, 1928. Class 42.

Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 249,979; Nov. 27; Serial No. 270,302; published Sept. 18, 1928. Class 42.

Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics. 250,108; Nov. 27; Serial No. 269,980; published Sept. 18, 1928. Class 42.

Pacific Trading Co. Inc., San Francisco, Calif. Canned fish. 250,061; Nov. 27; Serial No. 267,989; published Sept. 18, 1928. Class 46.

Page Milk Co., Merrill, Wis. Canned evaporated milk. 249,958; Nov. 27; Serial No. 269,313; published Sept. 4, 1928. Class 46.

Pahl, E. R., & Co., Milwaukee, Wis., assignor, by mesne assignments, to Royal Baking Powder Company, New York, N. Y. Pancake flour. 70,909; renewed Oct. 13, 1928.

Pango Milk Chocolate Co., The, Toledo, Ohio. Evaporated milk. 250,105; Nov. 27; Serial No. 259,819; published Sept. 11, 1928. Class 46.

Pappas, G. N., doing business as Sterolic Salve Company, Atlanta, Ga. Salve. 249,972; Nov. 27; Serial No. 270,143; published Sept. 18, 1928. Class 6.

Park, Philip B., Naval Station, San Pedro, Calif. Stock and poultry feeds. 249,961–2; Nov. 27; Serial Nos. 269,250–1; published Sept. 11, 1928. Class 46.

Parke, Davis & Company, Detroit, Mich. Lipoidal extract. 249,971; Nov. 27; Serial No. 270,044; published Sept. 18, 1928. Class 6.

Pearson, Herbert A., et al., executors and trustees. (See Compton, W. E.)

Penick & Ford, Ltd., New York, N. Y. Molasses. 250,080; Nov. 27; Serial No. 269,364; published Sept. 4, 1928. Class 46.

Peppers Fruit Company, Los Angeles, Calif. Fresh fruits, fresh vegetables, etc. 250,060; Nov. 27; Serial No. 267,992; published Sept. 18, 1928. Class 46.

Perfection Motor Products Company, The. (See Cohen, Joseph H.)

Perfection Radio Corporation of America, doing business as Perfection Radio Stores, New York, N. Y. Radio products. 250,150; Nov. 27. Class 21.

Perkins Electric Switch Manufacturing Company, The, assignor to The Bryant Electric Company, Bridgeport, Conn. Electrical switches. 71,912; renewal Dec. 22, 1928.

Perrigia, André, Paris, France. Toilet atomizers. 250,004; Nov. 27; Serial No. 260,133; published Sept. 11, 1928. Class 44.

Polson, Neil C., Kingston, Ontario, Canada, and Hartford, Conn., to Neil C. Polson, doing business as N. C. Polson & Company, Limited, Montreal, Canada, and Rouses Point, N. Y. Remedy for certain diseases. 69,138; renewed May 19, 1928.

Postum Company, Incorporated, New York, N. Y. Gelatin dessert. 250,035; Nov. 27; Serial No. 266,480; published Aug. 28, 1928. Class 46.

Potteries, Unaka, Incorporated, High Point, N. C., and New York, N. Y. Potteries. 250,155; Nov. 27. Class 30.

Princess Confectionery Co., doing business as Fox Candy Co., Milwaukee, Wis., Marshmallow topping, etc. 249,925; Nov. 27; Serial No. 265,447; published Sept. 11, 1928. Class 46.

Prochaska, F., Ltd., Prague, Czechoslovakia. Face creams, lip sticks, pomades, etc. 250,147; Nov. 27. Class 6.

Procter & Gamble Company, The. (See McCaw Manufacturing Co.)

Procter & Gamble Company, The. (See Pyle, James & Sons, assignors.)

Publix Theatres Corporation, New York, N. Y. Uniforms and caps. 249,986; Nov. 27; Serial No. 265,164; published Aug. 28, 1928. Class 39.

Puritan Pharmaceutical Company, St. Louis, Mo. Complexion powder, cleansing creme, tissue creme, astringent lotion, etc. 250,030; Nov. 27; Serial No. 267,010; published Sept. 11, 1928. Class 6.

Pyle, James, & Sons, Edgewater, N. J., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Powder for softening water and for cleansing. 70,940; renewed Oct. 20, 1928.
Quaker Fresh Fish Fillet Co. (See Bedner, Harry I.)
Realistic Permanent Wave Machine Co., The, Cleveland, Ohio. Permanent-waving machines and accessories and equipment thereof. 249,967; Nov. 27; Serial No. 264,777; published Sept. 11, 1928. Class 44.
Rea-Patterson Milling Company, The, Coffeyville, Kans. Wheat flour. 249,928; Nov. 27; Serial No. 265,693; published July 17, 1928. Class 46.
Red Spot Paint & Varnish Co., Inc., Evansville, Ind. Ready-mixed asphalt paint. 249,975; Nov. 27; Serial No. 270,202; published Sept. 11, 1928. Class 16.
Red Wing Supply Co. (See Zimmermann, W. F.)
Reliance Manufacturing Company, Chicago, Ill. Work shirts. 250,021; Nov. 27; Serial No. 267,723; published Aug. 21, 1928. Class 39.
Repeal Brass Mfg. Co., Los Angeles, Calif. Toilet fixtures, valves, etc. 249,902; Nov. 27; Serial No. 263,513; published Sept. 18, 1928. Class 13.
Resinous Products and Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 249,942; Nov. 27; Serial No. 270,757; published Sept. 18, 1928. Class 6.
Rialto Orange Co., Rialto, Calif. Fresh citrus fruits. 249,943; Nov. 27; Serial No. 270,722; published Sept. 18, 1928. Class 46.
Richmond-Chase Company, San Jose, Calif. Canned fruits, prepared prunes in syrup, etc. 250,102; Nov. 27; Serial No. 259,080; published Sept. 18, 1928. Class 46.
Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Dental appliance assemblies. 250,015–16; Nov. 27; Serial Nos. 268,885–6; published Sept. 11, 1928. Class 44.
Rogoski, John W., Los Angeles, Calif. Humidors. 249,934; Nov. 27; Serial No. 270,977; published Sept. 18, 1928. Class 8.
Roma Macaroni Company, San Francisco, Calif. Alimentary paste. 250,133; Nov. 27. Class 46.
Rosenau Bros., Inc., Philadelphia, Pa. Elastic bands. 250,103; Nov. 27; Serial No. 259,184; published Sept. 4, 1928. Class 40.
Rosen-Brandt, Inc., New York, N. Y. Ladies' hats. 250,025; Nov. 27; Serial No. 267,512; published Aug. 7, 1928. Class 39.
Royal Baking Powder Company. (See Pahl, E. R., & Co., assignor.)
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Mayonnaise, gelatine, yeast, etc. 250,106; Nov. 27; Serial No. 218,375; published Sept. 4, 1928. Class 46.
Rubyette Co., The, San Francisco, Calif. Ice cream, ices, sherbets, etc. 249,967; Nov. 27; Serial No. 269,154; published Sept. 4, 1928. Class 46.
Russel, Robbins, Thermal, Calif. Fresh citrus and deciduous fruits, fresh vegetables, etc. 250,061–2; Nov. 27; Serial Nos. 240,216–17; published Sept. 18, 1928. Class 46.
Sackrin, Eisenberg & Perlstein, New York, N. Y. Ladies' dress coats. 250,019; Nov. 27; Serial No. 268,818; published Sept. 4, 1928. Class 39.
Salm, John, doing business as Salm Manufacturing Company, Torrance, Calif. Manicuring sets. 250,130; Nov. 27. Class 44.
Salute Brand Association. (See Morris, Preston, assignor.)
Sayman, Thomas M., St. Louis, Mo. Preparation for certain diseases. 70,818; renewed Oct. 6, 1928.
Savarins, Inc., The, New York, N. Y. Fruit preserves, pies, coffee, cake, etc. 250,040; Nov. 27; Serial No. 266,049; published Sept. 4, 1928. Class 46.
Savory Baking Company, Newark, N. J. Tarts and coffee rings. 249,932; Nov. 27; Serial No. 265,986; published Sept. 11, 1928. Class 46.
Scovill Manufacturing Company. (See American Pin Co., assignor.)
Scull, William S., Company, Camden, N. J. Chocolate malt syrup. 249,957; Nov. 27; Serial No. 269,322; published Sept. 4, 1928. Class 46.
Seattle Astoria Iron Works, Seattle, Wash. Machinery for canning and can making. 250,151; Nov. 27. Class 23.
Sells, Osborne P., doing business as Double Seal Ring Company, New York, N. Y. Piston rings. 250,145; Nov. 27. Class 35.
Seydel-Woolley Company, Atlanta, Ga. Sizing compound. 249,976; Nov. 27; Serial No. 270,210; published Sept. 18, 1928. Class 6.
Shoecraft Shop Inc., New York, N. Y. Ladies' hand bags of metal, leather, straw, or textile material or combinations of the same. 249,931; Nov. 27; Serial No. 265,991; published Sept. 11, 1928. Class 3.
Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electric clocks and parts thereof, and watchmen's time-indicating clocks. 250,093; Nov. 27; Serial No. 253,960; published Sept. 18, 1928. Class 27.
Silver Moon Company, Inc., New Orleans, La. Astringents, astringent cerates, bleach creams, etc. 249,949; Nov. 27; Serial No. 270,613; published Sept. 18, 1928. Class 6.
Skelly Oil Company, Tulsa, Okla. Gasoline. 249,981; Nov. 27; Serial No. 270,355; published Sept. 18, 1928. Class 15.
Southern Farms Company. (See Stauffer, S. Walter.)
Spangler, Maude H., doing business as Star Spangler Mfg. Co., Birmingham, Ala. Reducing cream. 249,945; Nov. 27; Serial No. 270,656; published Sept. 18, 1928. Class 6.
Spear, J. W., & Sons, Inc., New York, N. Y. Parlor games. 250,043; Nov. 27; Serial No. 269,695; published Sept. 11, 1928. Class 22.
Squibb, E. R., & Sons, New York, N. Y. Vitaminous dietary supplement. 250,079; Nov. 27; Serial No. 269,372; published Sept. 18, 1928. Class 6.
Stairway Manufacturing Company, The. (See Bessler Disappearing Stairway Co., The.)
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Nose and throat spray. 250,034; Nov. 27; Serial No. 266,763; published Sept. 18, 1928. Class 6.
Star Spangler Mfg. Co. (See Spangler, Maude H.)
Stauffer, S. Walter, doing business as Southern Farms Company, Walkersville, Md. Pork products. 250,033; Nov. 27; Serial No. 266,894; published Sept. 18, 1928. Class 46.
Stein Bros. Mfg. Co., Inc., Chicago, Ill. Brief cases, wallets, purses, etc. 250,083; Nov. 27; Serial No. 242,512; published Sept. 11, 1928. Class 3.
Sterolic Salve Company. (See Pappas, G. N.)
Stevens Brothers, assignor to C. S. Stevens & Sons, Cedarville, N. J. Canned fruits and canned vegetables. 72,033; renewed Dec. 29, 1928.
Stevens Brothers, assignor to C. S. Stevens & Sons, Cedarville, N. J. Canned fruits and canned vegetables. 72,315; renewed Jan. 19, 1929.
Stifel, J. L., & Sons, Wheeling, W. Va. Cotton piece goods. 249,935; Nov. 27; Serial No. 270,944; published Sept. 18, 1928. Class 42.
Strohmeyer & Arpe Co., New York, N. Y. Macaroni, spaghetti, vermicelli, and imported sardines. 73,225; renewed Mar. 30, 1929.
Sumter Packing Company, Inc., The, Sumter, S. C. Canned grapefruit. 250,134; Nov. 27. Class 46.
Sun Oil Company, Philadelphia, Pa. Lubricating oil. 249,980; Nov. 27; Serial No. 270,306; published Sept. 18, 1928. Class 15.
Sunrise Packing Company, Fresno, Calif. Dried fruits. 249,999; Nov. 27; Serial No. 260,922; published Sept. 18, 1928. Class 46.
Superior Products Company, Dallas, Tex. Preparation for cleaning, etc. 250,120; Nov. 27. Class 16.
Superior Type Company, The, Chicago, Ill. Toy rubber stamps. 250,028; Nov. 27; Serial No. 267,469; published Sept. 11, 1928. Class 22.
Sweet, Allen H., New Orleans, La. Paint. 250,014; Nov. 27; Serial No. 268,802; published Sept. 11, 1928. Class 16.
Sylvania Products Company, Emporium, Pa. Radio electron tubes and electric lamps. 250,048; Nov. 27; Serial No. 268,710; published Sept. 18, 1928. Class 21.
Syracuse Chilled Plow Co., assignor to Syracuse Chilled Plow Co. Inc., Syracuse, N. Y. Plows and parts thereof. 71,075–6; renewed Oct. 27, 1928.
Taylor Provision Company, The, Trenton, N. J. Pork roll. 73,183; renewed Mar. 23, 1929.
Texas Pacific Coal and Oil Company, Fort Worth, Tex. Lubricating oils. 250,057; Nov. 27; Serial No. 268,188; published Sept. 18, 1928. Class 15.
Thorpe, Jay, Inc., New York, N. Y. Beaded bags. 250,112; Nov. 27; Serial No. 269,788; published Sept. 11, 1928. Class 3.
Traun, Dr. Heinr., & Söhne, vormals Harburger Gummi-Kamm-Compagnie, Hamburg, Germany. Combs. 249,994; Nov. 27; Serial No. 262,964; published Sept. 4, 1928. Class 40.
Tribune Company, The, Chicago, Ill. Series of cartoons. 250,088; Nov. 27; Serial No. 249,553; published July 19, 1927. Class 38.
Uddeholms Aktiebolag, Uddeholm, Sweden. Iron and steel in the shape of rolled and hammered bars, etc. 250,037–8; Nov. 27; Serial Nos. 266,444–5; published Sept. 11, 1928. Class 14.
U. S. Golf Manufacturing Co. (See United States Whip Co.)
U. S. Line Company. (See United States Whip Co.)
United States Whip Co., doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 249,952–4; Nov. 27; Serial Nos. 269,337–9; published Sept. 11, 1928. Class 22.
United States Whip Co., also doing business as U. S. Golf Manufacturing Co., Westfield, Mass. Golf clubs. 249,955–6; Nov. 27; Serial Nos. 269,335–6; published Sept. 11, 1928. Class 22.
United States Whip Co., doing business as U. S. Line Company, Westfield, Mass. Fishing lines. 250,077–8; Nov. 27; Serial Nos. 269,377–8; published Sept. 11, 1928. Class 22.
Univis Lens Company, The, Dayton, Ohio. Ophthalmic lenses. 250,135; Nov. 27. Class 26.
Vanderbilt, R. T., Company, Incorporated, New York, N. Y. Preparation to be added to acid pickling bath. 250,153; Nov. 27. Class 6.
Vermont Maple Syrup Co., Inc., Burlington, Vt. Maple syrup. 250,144; Nov. 27. Class 46.
Viscose Company, The, Marcus Hook, Pa. Rayon yarn. 249,970; Nov. 27; Serial No. 270,000; published Sept. 11, 1928. Class 43.
Western Grocer Company, Marshalltown, Iowa. Canned vegetables. 250,000; Nov. 27; Serial No. 260,863; published Sept. 4, 1928. Class 46.



Whitney, F. A., Carriage Company, Leominster, Mass. Light vehicles. 249,965; Nov. 27; Serial No. 269,214; published Sept. 18, 1928. Class 19.
Wills, Bernard B., et al., executors and trustees. (See Compton, W. E.)
Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Plant-fertilizing materials. 70,947; renewed Oct. 20, 1928.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 250,042; Nov. 27; Serial No. 269,704; published Sept. 11, 1928. Class 22.
Winthrop Chemical Company. (See Chemische Fabrik von Heyden A. G., assignor.)
Woodbridge Ornamental Iron Company, Chicago, Ill. Stairways. 250,164; Nov. 27. Class 12.
Wurm Brothers Company, Chicago, Ill. Canned fruits, canned vegetables, etc. 250,156; Nov. 27. Class 46.
Yard-Boy Incinerator Co., Chicago, Ill. Incinerator. 249,933; Nov. 27; Serial No. 271,014; published Sept. 18, 1928. Class 24.
Younglove and Company, Tacoma, Wash. Cane and maple syrup. 250,168; Nov. 27. Class 46.
Zimmermann, W. F. doing business as Red Wing Supply Co., Red Wing, Minn. Malt syrup. 250,051; Nov. 27; Serial No. 268,622; published Sept. 11, 1928. Class 46.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Answer Soap Company. (See Banes, William K.)
Arwell Products Company, Waukegan, Ill. Arwell Kloromist. For Insecticide. 34,988; Nov. 27.
Banes, William K., doing business as Answer Soap Company, Huntington Park, Calif. Answer. For Soap. 34,989; Nov. 27.
Bardell, James C., San Francisco, Calif. Bardell Viewpack No. 5. For Souvenir Mailing Cards. 34,990; Nov. 27.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Coffee. For Coffee. 34,991; Nov. 27.
Central Waxed Paper Company, Chicago, Ill. Mother's Bread. For Bread. 34,992; Nov. 27.
Central Waxed Paper Company, Chicago, Ill. Home Made Bread. For Bread. 34,993; Nov. 27.
Clemente, Lorenzo, doing business as Yolanda Packing Co., Los Angeles, Calif. Yolanda. For Mushroom Sauce. 34,994; Nov. 27.
Cohen, Harry, doing business as F. H. C. Preserve. Chicago, Ill. F. H. C. Home Made Preserve. For Preserves. 34,995; Nov. 27.
Dayton Bread Company, The, Dayton, Ohio. Miami Maid. For Bread. 34,996; Nov. 27.
F. H. C. Preserve. (See Cohen, Harry.)
Great West Sales Corporation, Chicago, Ill. Bull Frog. For Malt Extract. 34,997; Nov. 27.
Haas, Geo., & Sons, San Francisco, Calif. Home Kraft Candies. For Candy. 34,998; Nov. 27.
Haas, Geo., & Sons, San Francisco, Calif. Home-Made Specials. For Candy. 34,999; Nov. 27.
Heileman, G., Brewing Co., La Crosse, Wis. Coney Island. For Malt Beverages. 35,000; Nov. 27.
Hoague-Sprague Corporation, Lynn, Mass. Polly Junior. For Boxes. 35,001; Nov. 27.
Kozak, Inc., Batavia, N. Y. Kozak Auto Dry Wash. For Chemically-Treated Cleaning and Polishing Cloths. 35,002; Nov. 27.
Meyer, Frank C., Company, Inc., New York, N. Y. C. H. Baker. For Footwear. 35,003; Nov. 27.
Miller-Parrott Baking Co., Terre Haute, Ind. Miller's Malted Milk Bread. For Bread. 35,004; Nov. 27.
Mother Hubbard Food Co. Inc., New York, N. Y. Mother Hubbard. For Chocolate Malt Syrup. 35,005; Nov. 27.
Manck, Theodor, Los Angeles, Calif. Ted's Breakfast Club Coffee. For Coffee. 35,006; Nov. 27.
Pinnacle Packing Company, Inc., Medford, Oreg. Pic O Pac. For Fresh Packed Pears. 35,007; Nov. 27.
Rochester Packing Co., Inc., Rochester, N. Y. Arpeako Sausage Meat. For Sausage Meat. 35,008; Nov. 27.
Rochester Packing Co., Inc., Rochester, N. Y. Arpeako Butter. For Butter. 35,009; Nov. 27.
Rochester Packing Co., Inc., Rochester, N. Y. Arpeako Lard. For Lard. 34,010; Nov. 27.
Rochester Packing Co., Inc., Rochester, N. Y. Arpeako Pure Pork Sausage (Little Links). For Pure Pork Sausage, Little Links. 35,011; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Circus Performers. For Molded Chocolate Cakes. 35,012; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Hans & Gretchen. For Molded Chocolate Cakes. 35,013; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Little Red Riding Hood. For Molded Chocolate Cakes. 35,014; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Cowboys and Indians. For Molded Chocolate Cakes. 35,015; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Little Snow-White. For Molded Chocolate Cakes. 35,016; Nov. 27.
Scharf Brothers Co. Inc., New York, N. Y. Milk Choco—Tales Farmyard Capers. For Molded Chocolate Cakes. 35,017; Nov. 27.
Schoneberger & Sons, Chicago, Ill. Gold Spun Egg Noodles. For Noodles. 35,018; Nov. 27.
United States Brewing Co. of Chicago, Chicago, Ill. 1933 World's Fair. For Malt Syrup. 35,019; Nov. 27.
Williamson Candy Co., Chicago, Ill. Meadow Gold. For Candy. 35,020; Nov. 27.
Yolanda Packing Co. (See Clemente, Lorenzo.)

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Candy Drops. For Candy. 11,341; Nov. 27.
Black, Starr & Frost, New York, N. Y. For more than One Hundred Years this House has Collected Pearls. For Pearl Necklaces. 11,342; Nov. 27.
Blodgett Nut Company, Fayetteville, Ark. Ozark Black Walnuts. For Toasted Black Walnuts. 11,343; Nov. 27.
Curtiss Candy Company, The, Chicago, Ill. Baby Ruth, America's Favorite Candy. For Candy and Candy Bars. 11,344; Nov. 27.
De Laval Separator Co., The, New York, N. Y. De Laval, 50 Years of Service to the Dairymen of the World. For Milking Machinery. 11,345; Nov. 27.
Heil Co., The, Milwaukee, Wis. Quality. For Tanks, Bodies, and Hoists. 11,346; Nov. 27.
Ilich, Herbert H., New York, N. Y. Crystal Trees and Boutonnieres—How to make them. For Materials for Making Glass Trees and Boutonnieres. 11,347; Nov. 27.
Johnson, Charles E., and Company, Philadelphia, Pa. The Printer's Inspiration. For Printing Inks. 11,348; Nov. 27.
Johnson, Charles Enen, and Company, Philadelphia, Pa. Mercury. For Printing Inks. 11,349; Nov. 27.
Kelly-Springfield Tire Co., New York, N. Y. Kelly Springfield Tires. For Tires. 11,350; Nov. 27.
New Departure Manufacturing Company, The, Bristol, Conn. Ball Bearings. For Ball Bearings. 11,351; Nov. 27.
Postum Company, Incorporated, New York, N. Y. Now You'll like Bran. For Post's Bran Flakes. 11,352; Nov. 27.
Standard Textile Products Company, The, New York, N. Y. Modern Decorative Effects can be had with Sanitas for Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. 11,353; Nov. 27.
Tancill, Grace, St. Louis, Mo. Grace Tancill Jersey Dress Modell IIA. For Dresses. 11,354; Nov. 27.
Tancill, Grace, St. Louis, Mo. Grace Tancill Jersey Dress Model V. For Dresses. 11,355; Nov. 27.
Tancill, Grace, St. Louis, Mo., Grace Tancill Jersey Dress Model VIIA. For Dresses. 11,356; Nov. 27.
Welch Grape Juice Company, The, Westfield, N. Y. Welch Concord Harvest Bulletin. For Welch's Grape Juice. 11,357; Nov. 27.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abortis Company, Fond du Lac, Wis. Medicinal preparation. 273,171; Nov. 27. Class 6.
Allied Metal Industries, Inc. (See Lipton, Alexander.)
Altman, B., & Co., New York, N. Y. Toilet soap. 273,432; Nov. 27. Class 4.
Amberg, Louis, & Son, New York, N. Y. Dolls. 270,565; Nov. 27. Class 22.
American Artichoke Products Company. (See Bitterman, Simon.)
American Car and Foundry Company, New York, N. Y. Railway cars, car wheels, boats. 272,634; Nov. 27. Class 19.
American Car and Foundry Company, New York, N. Y. Railway cars and parts thereof. 272,636; Nov. 27. Class 19.
American Lady Corset Co., Detroit, Mich. Ladies' wearing apparel. 243,574; Nov. 27. Class 39.
American Laundry Machinery Company, The, Norwood, Cincinnati, Ohio. Dry-cleaning machines. 273,568; Nov. 27. Class 24.
American Textiles, Inc., Bay City, Mich. Hosiery. 273,279; Nov. 27. Class 39.
Antwerp Engineering Co. (Soc. Anon.), The, Antwerp, Belgium. Boats, canoes, etc. 273,536; Nov. 27. Class 19.
Armstrong Electric and Manufacturing Corporation, The, Huntington, W. Va. Electrical waffle irons. 272,528; Nov. 27. Class 21.
Asia Drug Company, Inc., New York, N. Y. Razor blades. 273,435; Nov. 27. Class 23.
Asia Drug Company, Inc., New York, N. Y. Razor blades. 273,537; Nov. 27. Class 23.
Associated Merchandising Corporation, New York, N. Y. Sanitary napkins, aprons, belts, etc. 272,531; Nov. 27. Class 44.
Aug. Reutersham G. m. b. H. Stahlwarenfabrik, Solingen, Germany. Tin openers and corkscrews. 247,756; Nov. 27. Class 23.
B. V. D. Company, Inc., The, Baltimore, Md. Knit undershirts. 273,624; Nov. 27. Class 39.
Bach Aircraft Company, Inc., Santa Monica, Calif. Aeroplanes. 272,971; Nov. 27. Class 19.
Bamberger, L., & Company, Newark, N. J. Sanitary napkins. 274,002; Nov. 27. Class 44.
Bancroft Walker Company, Boston and South Boston, Mass. Women's leather shoes. 271,736; Nov. 27. Class 39.
Bank Manufacturing Co. (See Shockley, C.)
Barney & Berry, Inc., New Haven, Conn. Flash lights and batteries. 256,602; Nov. 27. Class 21.
Baskind, Louis, & Company, Incorporated, New York, N. Y. Shirts and pajamas. 272,687; Nov. 27. Class 39.
Baugh and Sons Company, Philadelphia, Pa. Fertilizer. 273,353; Nov. 27. Class 10.
Beals, Granville A., doing business as The Greenwich Mills, New York, N. Y. Cotton, woolen, and worsted fabrics. 273,738; Nov. 27. Class 42.
Bear Brand Hosiery Co., Chicago, Ill. Hosiery. 273,438; Nov. 27. Class 39.
Bearfoot Sole Company, Inc., The, Boston, Mass. Soles. 272,688; Nov. 27. Class 39.
Bercy's Laboratories. (See Fieron, M. M., & Son, Inc.)
Binney & Smith Company, New York, N. Y. Crayons, slate pencils, and chalk. 268,135; Nov. 27. Class 37.
Bitterman, Simon, doing business as American Artichoke Products Company, Denver, Colo. Dried ground Jerusalem artichokes. 272,855; Nov. 27. Class 46.
Blake & Cheney, Portland, Me. Canned oven-baked beans and pork, etc. 272,076; Nov. 27. Class 46.
Böhme, H. Th. A. G., Chemnitz, Germany. Finishing and dressing preparations. 256,165; Nov. 27. Class 6.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble ash trays and receivers. 267,338; Nov. 27. Class 8.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble soda fountains, marble automobile gear-shift ball tops, and marble valve tops for soda fountains. 267,340; Nov. 27. Class 23.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble stones for rings, scarf pins, brooches, etc. 267,341; Nov. 27. Class 28.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble frames for mirrors and pictures, etc. 267,342; Nov. 27. Class 32.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble paper weights, marble bases for penholders and fountain pens, and marble ink wells and stands. 267,344; Nov. 27. Class 37.
Bouyoucoglou, Demeter, doing business as Hair Palm Tonic Co., St. Louis, Mo. Toilet products. 273,797; Nov. 27. Class 6.
Brady, Jessica M., Mamaroneck, N. Y. Traveling bags. 273,956; Nov. 27. Class 3.
Brand-Dunwoody Milling Company, Joplin, Mo. Plain and self-rising wheat flour. 271,425–6; Nov. 27. Class 46.
Bridgeport Brass Company, Bridgeport, Conn. Piping, tubing, pipe fitting, etc. 257,094; Nov. 27. Class 13.



Bridgeport Hardware Manufacturing Corporation, The, Bridgeport, Conn. Screw drivers. 273,181–2; Nov. 27. Class 23.
Brighton Mills, Allwood and Passaic, N. J., and Shannon, Ga. Netted woven cord fabrics of cotton. 273,358; Nov. 27. Class 42.
Bruce, F. L., Co., Memphis, Tenn. Chemical composition. 272,788; Nov. 27. Class 6.
Brunswig Drug Company, Los Angeles, Calif. Preparation intended for the treatment of constipation, etc. 269,276; Nov. 27. Class 6.
Buckeye Overall Company, The, Versailles, Coldwater, and Greenville, Ohio. Overalls and coveralls, coats, etc. 273,645; Nov. 27. Class 39.
Buhrke, R. H., Company, Chicago, Ill. Golf clubs. 272,858–9; Nov. 27. Class 22.
Burdick Corporation, The, Milton, Wis. Therapeutic appliances and parts thereof. 272,380; Nov. 27. Class 44.
Cabot, Samuel, Inc., Boston, Mass. Waterproof paints and paint coatings. 269,989; Nov. 27. Class 16.
Caldwell-Sites Company, Roanoke, Va. School tablets, composition and note books, etc. 269,344; Nov. 27. Class 37.
California Grape Products Co. Inc., Ukiah, Calif., and New York, N. Y. Grape syrup. 272,322; Nov. 27. Class 46.
Calyork Manufacturing Co., Los Angeles, Calif. Hats and caps. 267,928; Nov. 27. Class 39.
Catholic Education Press, Inc., Washington, D. C. Periodical. 272,252; Nov. 27. Class 38.
Childs, H., & Co. Inc., Pittsburgh, Pa. Shoes. 272,642; Nov. 27. Class 39.
Childs-Shaw, Incorporated, Minneapolis, Minn. Automobile awnings. 272,697; Nov. 27. Class 19.
Chryson's, Inc., Los Angeles, Calif. Playing cards and novelty games. 269,088; Nov. 27. Class 22.
Clayton & Lambert Manufacturing Co., Detroit, Mich. Liquid-fuel blowtorches, fire pots, and stoves. 272,253–5; Nov. 27. Class 34.
Cleveland File Company, The, Cleveland, Ohio. Files. 273,682–4; Nov. 27. Class 23.
Cleveland Ionoco Office, Inc., Cleveland, Ohio. Therapeutic solenoids. 272,544; Nov. 27. Class 44.
Coldseal Laboratories. (See McWilliams, Arthur.)
Conduit and Gold, Chicago, Ill. Footballs, baseballs, baseball bats, etc. 272,978; Nov. 27. Class 22.
Cook Laboratories, Inc., Chicago, Ill. Cartridges. 220,841; Nov. 27. Class 44.
Courtaulds, Limited, London, England. Yarns of cellulose. 273,186; Nov. 27. Class 43.
Creagan, Martin V. B., doing business as Van Seaton Chemical Co., Fort Worth, Tex. Soluble aspirin tablets. 250,791; Nov. 27. Class 6.
Crowley Henry L., and Company, Inc., East Orange, N. J. Ceramic, electric insulating compound. 264,752; Nov. 27. Class 21.
Crystal Springs Paste Company, Boston, Mass. Adhesive paste, adhesive paste powder, etc. 272,981; Nov. 27. Class 5.
Cute-Craft Company Fall River, Mass. Outboard-motor racing hulls. 272,023; Nov. 27. Class 19.
Darnee Inc., New York, N. Y. Toilet soaps. 272,644; Nov. 27. Class 4.
Deach, Miles F., Oakland, Calif. Electric-lighting fixtures. 260,002; Nov. 27. Class 21.
Dent Hardware Company, The, Fullerton, Pa. Toy aeroplanes, toy pistols, etc. 272,471; Nov. 27. Class 22.
Denver Alfalfa Milling & Products Co., The, Lamar, Colo. Alfalfa meal. 273,806; Nov. 27. Class 46.
Detmer, Bruner & Mason, Inc. New York, N. Y. Woolen and worsted fabrics. 274,210–12; Nov. 27. Class 42.
Detroit White Lead Works, Detroit, Mich. Polish. 272,144; Nov. 27. Class 16.
Diary Publishing Corporation, The New York, N. Y. Desk and pocket diaries, desk blotters, personal-paper cases, etc. 253,533; Nov. 27. Class 37.
Doft, Max., doing business as Princeton Knitting Mills, Brooklyn, N. Y. Piece goods. 265,425; Nov. 27. Class 42.
Durand & Co., Newark, N. J. Lockets, brooches, scarf pins, etc. 263,260; Nov. 27. Class 28.
Electrolux, Inc., New York, N. Y. Electrically-driven household appliances. 270,285; Nov. 27. Class 21.
Farrin, M. B., Lumber Co., The, Cincinnati, Ohio. Oak, maple, ash, and gum flooring. 273,289; Nov. 27. Class 12.
Fashion Park Incorporated, Rochester, N. Y. Women's coats. 272,203; Nov. 27. Class 39.
Feigleson, Joseph, Brooklyn, N. Y. Silver and metal polish. 273,492; Nov. 27. Class 4.
Fidalgo Island Packing Company, Seattle, Wash. Canned salmon. 214,653; Nov. 27. Class 46.



Financial Publishing Co., The. (See Smith, Seymour W.)
Fischer Baking Co., Newark, N. J. Crullers, doughnuts, pies, etc. 272,709; Nov. 27. Class 46.
Fleron, M. M., & Son, Inc., doing business as Bercy's Laboratories, Trenton, N. J. Astringents, astringent cerates, etc. 271,695; Nov. 27. Class 6.
Florida Pine Extracts Company, Tampa, Fla. Pine tar. 272,327; Nov. 27. Class 6.
Fried. Krupp Grusonwerk Aktiengesellschaft, Magdeburg-Buckau, Germany. Machinery for reclaiming fibres from fibrous plants. 272,027; Nov. 27. Class 23.
Friedman, H., Hat Co., Inc., New York, N. Y. Men's hats. 263,599; Nov. 27. Class 39.
Friedrich, Edward, San Antonio, Tex. Refrigerator counters. 270,794; Nov. 27. Class 31.
Fruit Products Company of Florida, Eagle Lake, Fla. Canned grapefruit, grapefruit juice, etc. 271,547; Nov. 27. Class 46.
Gem Engineering Corporation, The., Hempstead, N. Y. Electrical switching apparatus. 271,890; Nov. 27. Class 21.
General Garment Manufacturing Company, Incorporated, Petersburg, Va. Clothing. 272,484; Nov. 27. Class 39.
Gimbel Brothers, Inc., New York, N. Y. Women's trimmed and untrimmed hats. 254,238; Nov. 27. Class 39.
Glenwood Manufacturing Company, Raleigh, N. C. Work clothing. 273,049; Nov. 27. Class 39.
Gold Leaf Cigarette & Tobacco Company, The, Hahira, Ga. Cigarettes. 264,639; Nov. 27. Class 17.
Goldman, Nathan S., Fort Wayne, Ind. Hosiery. 273,652; Nov. 27. Class 39.
Goodall Worsted Company, Sanford, Me. Piece goods. 271,648; Nov. 27. Class 42.
Goodrest Trading Corporation, Springfield, Mass. Mattresses, beds, bed springs. 273,231; Nov. 27. Class 32.
Grace's a Shop for Ladies, Nashville, Tenn. Coats, wraps, dresses, etc. 273,494; Nov. 27. Class 39.
Graphite Paper Company, Chicago, Ill. Ink ribbons and carbon paper. 271,546; Nov. 27. Class 11.
Green, Gertrude, doing business as S. & S. Cleaning Products Co., Birmingham, Ala. Household cleaning compound. 265,043; Nov. 27. Class 4.
Greenwich Mills, The. (See Beals, Granville A.)
Griffin Grocery Company, Muskogee, Okla. Extract of vanilla, mincemeat, coffee, etc. 269,584; Nov. 27. Class 46.
Hague, Alfred, & Company, Inc., New York, N. Y. Paints. 272,808; Nov. 27. Class 16.
Hair Palm Tonic Co. (See Bouyoucoglou, Demeter.)
Hannan, A., & Bro., Pittsburgh, Pa. Stogies and cigars. 273,233; Nov. 27. Class 17.
Harding, Herbert P., Chicago, Ill. Paint. 272,886; Nov. 27. Class 16.
Heidelberg, Wolf & Co., New York, N. Y. Outer clothing. 270,292; Nov. 27. Class 39.
Heigen Manufacturing Company, Providence, R. I. Jewelry. 261,813; Nov. 27. Class 28.
Hexter Garment Mfg. Co., Los Angeles, Calif. Dresses. 273,595; Nov. 27. Class 39.
Higgs, G. W., & Co., Ada, Okla. Stomach bitters, cough syrup, etc. 272,811; Nov. 27. Class 6.
Hilsenbeck, L., Inc., New York, N. Y. Prophylactic rubber articles. 273,144; Nov. 27. Class 44.
Hochstadter, Harry C., Philadelphia, Pa. Eye shades. 272,714; Nov. 27. Class 44.
Holeslite Plaster Base Company. (See Kudlata, Rudolph J.)
Holmes Products, Inc., New York, N. Y. Electric refrigerators and parts thereof. 273,400–1; Nov. 27. Class 31.
Holzman, Otto, doing business as Le Roy Manufacturing Co., Chicago, Ill. Soaps. 267,957; Nov. 27. Class 4.
Horlucks, Inc., Seattle, Wash. Ice cream. 269,350; Nov. 27. Class 46.
Horowitz, Irving, doing business as Lenore Perfume and Bag Shop, Brooklyn, N. Y. Toilet articles. 273,968; Nov. 27. Class 6.
Houbigant, Inc., New York, N. Y. Perfume, toilet water, face powder, etc. 273,919–21; Nov. 27. Class 6.
Hull Canning Co., Inc., Port Orchard, Wash. Canned chicken. 269,784; Nov. 27. Class 46.
Hump Hairpin Mfg. Co., The, Chicago, Ill. Hairpins. 266,663; Nov. 27. Class 40.
Hump Hairpin Mfg. Co., The, Chicago, Ill. Hairpins. 266,667; Nov. 27. Class 40.
Hunstiger, Leo T., doing business as Space-Making Fixture Company, Chicago, Ill. Display racks and parts thereof. 255,600; Nov. 27. Class 32.
Hyde, Albert A., Wichita, Kans., and Buffalo, N. Y. Colostomy pouch. 266,322; Nov. 27. Class 44.
Indian Products Company. (See Willard, Otto H.)
Indiana Lamp Corporation, Connersville, Ind. Electric tail lamps for vehicles. 272,496; Nov. 27. Class 21.
Iron Fireman Manufacturing Company, Portland, Oreg. Automatic coal burners. 273,567; Nov. 27. Class 34.
Italy Laboratories. (See Martino, Antonino R.)
Jackson Brewing Company, New Orleans, La. Malt syrup. 269,959; Nov. 27. Class 46.
Jackson Shoe Manufacturing Corporation, New York, N. Y. Shoes. 263,704; Nov. 27. Class 39.
Jacobs, Kalman M., doing business as K. M. Jacobs Company, New York, N. Y. Hose supporters. 271,896; Nov. 27. Class 39.
Jobbers Service Incorporated, Coldwater, Mich. Coffee. 261,634; Nov. 27, Class 46.
K. P. & S. Pharmacal Company, Lamont, Okla. Medical compound. 272,564; Nov. 27. Class 6.
Kahn Tailoring Co., Indianapolis, Ind. Coats, vests, trousers, etc. 273,497; Nov. 27. Class 39.
Kalak Water Co. of New York, Inc., New York, N. Y. Alkaline water. 272,760; Nov. 27. Class 6.
Keenan, M. A., & Sons, New London, Conn. Malt extract. 272,662; Nov. 27. Class 46.
Keezer, Frank, doing business as The T. S. P. Co., Haverhill, Mass. Chemical preparation. 273,236; Nov. 27. Class. 6.
Kegler, John J., doing business as San-Tan Laboratories, Cedar Rapids, Iowa. Vaginal suppositories. 271,607; Nov. 27. Class 6.
Keppy, Jesse L. D., doing business as Ward Furnace Company, Oakland, Calif. Gas heaters. 273,602; Nov. 27. Class 34.
Kessler, A., & Sons, Tell City, Ind. Pretzels. 274,113; Nov. 27. Class 46.
Keystone Portland Cement Company, Philadelphia, Pa. Portland cement. 272,221; Nov. 27. Class 12.
Knight, L. A., Co. (See Wahle, Carl H.)
Kolb's Bakery, Los Angeles, Calif. Bread. 267,062; Nov. 27. Class 46.
Krumm, Theodore, doing business as The Krumm Mfg. Co., Redlands, Calif. Fertilizers. 271,700; Nov. 27. Class 10.
Kudlata, Rudolph J., doing business as Holestite Plaster Base Company, Chicago, Ill. Plaster base. 265,665; Nov. 27. Class 12.
Kuenzer & Co. Aktiengesellschaft, Zurich, Switzerland. Coffee, coffee substitutes, cakes, etc. 258,549; Nov. 27. Class 46.
Kulik, Irving, doing business as Kulik Lifesap Products Corporation, Brooklyn, N. Y. Iron tonic. 239,123; Nov. 27. Class 6.
Labaw, Le Roy H., doing business as L. R. H. Labaw & Company, Belle Mead, N. J. Drainage pumps. 271,392; Nov. 27. Class 23.
Lady Caroline Cakes, Inc., Spartanburg, S. C. Cakes. 273,821; Nov. 27. Class 46.
Lang, C. J., Clothing Company, The, Akron, Ohio. Suits and overcoats. 268,696; Nov. 27. Class 39.
La Pompadour, Inc., Minneapolis, Minn. Cold creams, face powders, perfumes, etc. 261,965; Nov. 27. Class 6.
Lavelle Rubber Co., Chicago, Ill. Flush-tank valve balls. 271,701; Nov. 27. Class 13.
Leichner, L., Incorporated, New York, N. Y. Toilet powder, toilet waters, etc. 273,504; Nov. 27. Class 6.
Lenore Perfume and Bag Shop. (See Horowitz, Irving.)
Lentheric, Incorporated, New York, N. Y. Toilet soap. 273,552; Nov. 27. Class 4.
Le Roy Manufacturing Co. (See Holzman, Otto.)
Lipton, Alexander, doing business as Allied Metal Industries, Inc., Inglewood, Calif. Electric lamps. 272,337; Nov. 27. Class 21.
Livingston Bros., Inc., San Francisco, Calif. Hand bags. 270,771; Nov. 27. Class 3.
Livingston Bros., Inc., San Francisco, Calif. Hats, hosiery, underwear, etc. 270,772; Nov. 27. Class 39.
Livingston Bros., Inc., San Francisco, Calif. Hosiery, underwear, hats, etc. 272,944; Nov. 27. Class 39.
Ludlum Steel Company, Watervliet, N. Y. Alloy steel. 273,824–5; Nov. 27. Class 14.
M B Son Company, Boston, Mass. Preparation for the treatment of colds, etc. 265,049; Nov. 27. Class 6.
Mancha Storage Battery Locomotive Company, St. Louis, Mo. Coal-loading machines. 273,404; Nov. 27. Class 23.
Mandabach, Paul J., doing business as Na-Dru-Ho Springs, Chicago, Ill. Ginger ale. 273,977; Nov. 27. Class 45.
Mark Cross Company, New York, N. Y. Silverware and articles trimmed or plated with silver. 263,958; Nov. 27. Class 28.
Martino, Antonio R., doing business as Italy Laboratories, New York, N. Y. Blood and nerve tonic. 264,768; Nov. 27. Class 6.
Mason, David, New York, N. Y. Toilet articles. 274,059; Nov. 27. Class 6.
Master Remedies Company, Omaha, Nebr. Preparation for the treatment of roup, pox, etc. 269,676; Nov. 27. Class 6.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses and cane syrup. 271,056; Nov. 27. Class 46.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses and cane syrup. 271,058; Nov. 27. Class 46.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses and cane syrup. 271,060–1; Nov. 27. Class 46.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses and cane syrup. 272,115; Nov. 27. Class 46.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Mayer & Schmidt Schleifmaschinen & Schmiergelwerke A. G., Offenbach-on-the-Main, Germany. Abrasive materials, etc. 256,356; Nov. 27. Class 4.
Mayers, L. & C., Co., New York, N. Y. Jewelry. 269,194; Nov. 27. Class 28.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candy. 273,306; Nov. 27. Class 46.
McFarland, Frederick J., doing business as WellsEver Company, Galveston, Tex. Preparations for cuts, burns, etc. 274,121; Nov. 27. Class 6.
McQueen, Willis L., Dallas, Tex. Hedge cutter and trimmer. 274,122; Nov. 27. Class 23.
McWilliams, Arthur, doing business as Coldseal Laboratories, Columbus, Ohio. Alkaline treatment. 273,111; Nov. 27. Class 6.
Merchant, Samuel L., Boston, Mass. Overcoats. 259,740; Nov. 27. Class 39.
Middletown Millwork Co. Inc., Middletown, Del. Motor boats. 273,200; Nov. 27. Class 19.
Miller, Arthur B., Seattle, Wash. Accordions, clarinets, trumpets, etc. 271,973; Nov. 27. Class 36.
Mills Novelty Company, Chicago, Ill. Combined piano and violin instruments of the automatic or self-playing type. 241,147; Nov. 27. Class 36.
Millsap-Woodruff Company, Inc., Birmingham, Ala. Caps and shirts. 238,512; Nov. 27. Class 39.
Molly Stark Candy Co. (See Woods, John J.)
Moore, Fred E., Alhambra, Calif. Furniture. 267,202; Nov. 27. Class 32.
Morris, Wheeler & Co., Inc., Philadelphia, Pa. Steel welding rods, etc. 273,059; Nov. 27. Class 14.
Moskowitz, Harry J., doing business as The Victor Infants Wear House, New York, N. Y. Infants' dresses, capes, coats, etc. 267,072; Nov. 27. Class 39.
Mountain States Honey Producers Association, Boise, Idaho. Honey. 268,995; Nov. 27. Class 46.
Na-Dru-Ho Springs. (See Mandabach, Paul J.)
Napieralski, Frank L., doing business as Superior Baking Company, Alma, Mich. New bread in loaves. 273,374; Nov. 27. Class 46.
National Aniline & Chemical Company, Inc., New York, N. Y. Organic chemical compound. 273,557; Nov. 27. Class 6.
National Gypsum Company, Buffalo, N. Y. Composition used as a plaster and wall finish. 273,300; Nov. 27. Class 12.
National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. 272,729–30; Nov. 27. Class 24.
National Washboard Company, Chicago, Ill., and Saginaw, Mich. Washboards. 272,732–4; Nov. 27. Class 24.
New Orleans Furniture Manufacturing Company, New Orleans, La. China closets, cupboards, etc. 273,310; Nov. 27. Class 32.
Nordic Baking & Importing Company, Seattle, Wash. Rye bread. 270,937; Nov. 27. Class 46.
Norwine Coffee Company, St. Louis, Mo. Tea, cocoa, coffee, etc. 266,040; Nov. 27. Class 46.
Ohmite Manufacturing Company, Chicago, Ill. Resistors. 272,179; Nov. 27. Class 21.
Owen Card Publishing Company, Inc., Elmira, N. Y. Card display and supply holder. 273,112; Nov. 27. Class 32.
Packwood, G. H., Mfg. Co., St. Louis, Mo. Powdered soap product. 271,942; Nov. 27. Class 4.
Papendick Bakery Co., St. Louis, Mo. Bread. 274,124; Nov. 27. Class 46.
Paris Brothers, New Orleans, La. Hosiery. 267,075; Nov. 27. Class 39.
Peck & Peck, New York, N. Y. Outer suits and coats for women. 273,668; Nov. 27. Class 39.
Pee Dee Bottling Company, Wadesboro, N. C. Beverages and ingredients for making the same. 269,690; Nov. 27. Class 45.
Peoples Drug Stores, Inc., also doing business as Shure-Fyre Products Company, Washington, D. C. Spirits for filling pocket cigarette and cigar lighters. 272,576; Nov. 27. Class 6.
Perkins, William N., Hoboken, N. J. Liniment. 272,735; Nov. 27. Class 6.
Peters and Russell, Inc., Springfield, Ohio. Combined carburetor choke control and electric starter actuator for internal-combustion engines. 272,302; Nov. 27. Class 23.
Pfizer, Charles, & Company, New York, N. Y. Laxative. 269,036; Nov. 27. Class 6.
Philadelphia Drying Machinery Company, The, Philadelphia, Pa. Drying machines and cooling and conditioning machines, etc. 262,483; Nov. 27. Class 23.
Phillips Petroleum Company, Bartlesville, Okla. Gasoline and lubricating oils. 265,688; Nov. 27. Class 15.
Piel Bros. Starch Co., Indianapolis, Ind. Cornstarch. 273,066; Nov. 27. Class 46.
Piver, L. T., Inc. Wilmington, Del., and New York, N. Y. Perfumed extracts. 273,071; Nov. 27. Class 6.
Por Larranaga Fabrica de Tabacos, Habana, Cuba. Cigars, cheroots, and little cigars. 260,504; Nov. 27. Class 17.
Poster Parts Company, Terre Haute Ind. Cotton fabric. 263,669; Nov. 27. Class 42.
Powell, Royce R., Company, The, Cleveland, Ohio. Medicine. 266,747; Nov. 27. Class 6.
Prescott, J. L. Company, Philadelphia Pa. Germicide, deodorant, steriliser, etc. 270,096; Nov. 27. Class 6.
Preservaline Manufacturing Co. The, Brooklyn, N. Y. Vegetable coloring. 274,068; Nov. 27. Class 6.
Princeton Knitting Mills. (See Doft, Max.)
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,981–2; Nov. 27. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,987; Nov. 27. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,996; Nov. 27. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 271,998; Nov. 27. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 272,000; Nov. 27. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils, etc. 272,003; Nov. 27. Class 15.
R Flint Corporation, New York, N. Y. Flint for pocket cigar lighters. 272,478–9; Nov. 27. Class 34.
Ralli Brothers, New York, N. Y. Binding cord of jute fibre. 261,648; Nov. 27. Class 7.
Rodriguez Ramon, Habana, Cuba. Cigarettes. 271,567; Nov. 27. Class 17.
Rolls Razor (1927) Limited, London, England. Safety razors. 273,887; Nov. 27, 1928. Class 23.
Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine accessories. 272,513; Nov. 27. Class 23.
Rusconi, Fulgensio C., Merced, Calif. Fresh grapes and deciduous fruits. 269,551; Nov. 27. Class 46.
S. & S. Cleaning Products Co. (See Green, Gertrude.)
Safety Carton & Container Company, The, Cincinnati, Ohio. Egg cartons. 246,001; Nov. 27. Class 2.
Sager Pen Corporation, Chicago, Ill., and New York, N. Y. Fountain pens. 262,489; Nov. 27. Class 37.
San-Tan Laboratories. (See Kegler, John J.)
Sapolin Co., Inc. New York, N. Y. Metal polish. 273,722; Nov. 27. Class 4.
Satisfaction Coffee Co., Braddock, Pa. Candy. 271,272; Nov. 27. Class 46.
Scadron, Louis H. New York, N. Y. Optical instruments lenses, etc. 273,246–7; Nov. 27. Class 26.
Schering-Kahlbaum A. G. Berlin, Germany. Medicinal preparations. 269,263; Nov. 27. Class 6.
Schneider Brothers Inc., Chicago, Ill. Combination ash tary, cigarette and match holder. 270,209; Nov. 27. Class 6.
Scientific Manufacturing Company, Incorporated, Scranton, Pa. Antiseptic. 270 651; Nov. 27. Class 6.
Sheet Aluminum Corporation, Jackson, Mich. Base-metal pots, pans, kettles, etc. 273,162; Nov. 27. Class 13.
Shelburne Shirt Company, New York, N. Y. Shirts. 272,737; Nov. 27. Class 39.
Shepard, Joseph C., Wilmington, N. C. Sanitary washing compounds, disinfectants, etc. 273,516; Nov. 27. Class 6.
Sherrow, J., & Son, New York, N. Y. Ladies' underwear. 272,738; Nov. 27. Class 39.
Shockley, C., doing business as Bank Manufacturing Co., Los Angeles, Calif. Money container. 273,018; Nov. 27. Class 25.
Shure-Fyre Products Company. (See Peoples Drug Stores, Inc.)
Sigg, A. G., Frauenfeld, Switzerland. Hardware. 268,117; Nov. 27. Class 13.
Smith Chemical Corporation, Johnson City, Tenn. Tonic. 243,504; Nov. 27. Class 6.
Smith, D. B., & Company, Inc., Utica, N. Y. Sprayers, spray pumps, spray guns, etc. 274,074; Nov. 27. Class 23
Smith, Seymour W., doing business as The Financial Publishing Co., Hartford, Conn., and New York, N. Y. Monthly magazine. 260,360; Nov. 27. Class 38.
Société Anonyme des Etablissements Lefranc, Paris, France. Artists' oil colors, water colors, etc. 253,295; Nov. 27. Class 16.
South Florida Products Corp., Fort Pierce, Fla. Fresh citrus fruits, canned fruits, etc. 261,288; Nov. 27. Class 46.
South Haven Preserving Co., South Haven, Mich. Canned fruits and vegetables. 228,670; Nov. 27. Class 46.
Space-Making Fixture Company. (See Hunstiger, Leo T.)
Spalding, A. G., & Bros., New York, N. Y. Golf balls. 270,212; Nov. 27. Class 22.
Spray Coffee and Spice Company, The, Denver, Colo. Roasted coffee mixtures, teas, spices, etc. 255,403; Nov. 27. Class 46.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. Lubricating oils, etc. 269,804; Nov. 27. Class 15.
State Registered Dentists, Aberdeen, Wash. Denture plates. 273,118; Nov. 27. Class 44.
Stauntons Limited, Toronto, Ontario, Canada. Wall paper. 273,348; Nov. 27. Class 37.
Sterling Mint Co. Inc., New York, N. Y. Candy. 273,420; Nov. 27. Class 46.



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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Stickles, L. D., Shoe Company, The, Red Wing, Minn. Shoes. 273,020; Nov. 27. Class 39.
Stillfilm Company, Los Angeles, Calif. Exposed film. 273,021; Nov. 27. Class 26.
Stonewall Cotton Mills, The, Stonewall, Miss. Woolen cheviot in the piece. 273,210; Nov. 27. Class 42.
Stunsi Sons Silk Company, Inc., New York, N. Y. Artificial-silk crepe. 274,020; Nov. 27. Class 42.
Summers, Samuel L., Whitemarsh Township, Pa. Medicinal compound. 272,965; Nov. 27. Class 6.
Superior Baking Company. (See Napieralski, Frank L.)
Superior Type Company, The, Chicago, Ill. Rubber type. 261,289; Nov. 27. Class 37.
Sweetheart Sweets Candy Company, Inc., New York, N. Y. Assorted chocolates and other candies. 273,985; Nov. 27. Class 46.
T. S. P. Co., The. (See Keezer, Frank.)
Tarkio Molasses Feed Co., Kansas City, Mo. Animal feeds. 273,083; Nov. 27. Class 46.
Taylor & Caldwell, Walkerton, Va. Canned vegetables. 273,988; Nov. 27. Class 46.
Taylor, Smith & Taylor Company, East Liverpool, Ohio. Chinaware. 271,152; Nov. 27. Class 30.
Tea Garden Products Co., San Francisco, Calif. Table syrup, preserves, honey, etc. 270,895; Nov. 27. Class 46.
Temple, Incorporated, Chicago, Ill. Loud speakers. 264,541; Nov. 27. Class 21.
Thomas Mills, Inc., High Point, N. C. Hosiery. 273,566; Nov. 27. Class 39.
Tisit Company, The, Haddon Heights and Camden, N. J. Polish. 270,524; Nov. 27. Class 16.
Trelles, M., & Company, New Orleans, La. Cigars, cheroots, etc. 263,984; Nov. 27. Class 17.
Ultramares Corporation, New York, N. Y. Hosiery, sweaters, and bathing suits. 255,780; Nov. 27. Class 39.
Union Bag & Paper Corporation, New York, N. Y. Paper bags. 265,507; Nov. 27. Class 2.
United States Shoe Company, The, Cincinnati, Ohio. Shoes. 254,946; Nov. 27. Class 39.
United Steel and Wire Company, Battle Creek, Mich. Steel and wire shelving. 272,118; Nov. 27. Class 32.
Utility Oil Corporation, Long Island City, N. Y. Petroleum products. 269,495; Nov. 27. Class 15.
Utility Oil Corporation, Long Island City, N. Y. Petroleum products. 270,812; Nov. 27. Class 15.
Van Seaton Chemical Co. (See Creagan, Martin V. B.)
Vermont Maple Syrup Co. Inc., Burlington, Vt. Maple syrup. 272,780; Nov. 27. Class 46.
Vermont Maple Syrup Co. Inc., Burlington, Vt. Syrup and maple syrup. 272,782; Nov. 27. Class 46.
Vermont Maple Syrup Co. Inc., Burlington, Vt. Syrups. 272,783; Nov. 27. Class 46.
Victor Infants Wear House. (See Moskowitz, Harry J.)
Virginia-Carolina Chemical Corporation, Richmond, Va. Fertilizers. 272,586; Nov. 27. Class 10.
Wable, Carl H., doing business as L. A. Knight Co., St. Louis, Mo. Tooth whitener. 270,682; Nov. 27. Class 6.
Walgreen Co., Chicago, Ill. Shaving cream. 267,020; Nov. 27. Class 4.
Walter, S., Incorporated, Philadelphia, Pa. Paper. 268,721; Nov. 27. Class 37.
Warfield-Pratt Howell Company, Des Moines, Iowa. Canned corn, peas, tomatoes, etc. 264,620; Nov. 27. Class 46.
Ward Furnace Company. (See Keppy, Jesse L. D.)
Ward's, Edgar T., Sons Company, Pittsburgh, Pa. Strip steel. 271,723; Nov. 27. Class 14.
Wechsler-Barber Silk Company, Inc., New York, N. Y. Piece goods. 273,167; Nov. 27. Class 42.
Weinberger Drug Company, The, Cleveland, Ohio. Eczema lotions, insecticides, laxative preparations, etc. 261,542; Nov. 27. Class 6.
Welch, Fairchild & Co., Inc., New York, N. Y. Woolen and flannel fabrics. 272,914; Nov. 27. Class 42.
Wolin-Feinberg, Inc., New York, N. Y. Hosiery. 272,375; Nov. 27. Class 39.
WellsEver Company. (See McFarland, Frederick J.)
Wheeling Steel Corporation, Wheeling, W. Va. Wire nails, cut nails, barbed wire, etc. 272,373; Nov. 27. Class 13.
White, Mrs. Fannie B., New York, N. Y. Nom de plume for writings. 266,962; Nov. 27. Class 38.
White Satin Mills Corporation, Minneapolis, Minn. Sugar. 268,944; Nov. 27. Class 46.
White Satin Sugar Company, Minneapolis, Minn. Icing sugar and granulated sugar. 272,916; Nov. 27. Class 46.
White Star Refining Co. of Delaware, Detroit, Mich. Lubricating oils and greases. 271,328; Nov. 27. Class 15.
White-Stokes Co., Inc., Chicago, Ill. Pectin product, etc. 273,035; Nov. 27. Class 46.
Wicks, F. J., sr., Casper, Wyo. Preparation for polishing, preserving, etc. 268,830; Nov. 27. Class 16.
Willard, Otto H., doing business as The Indian Products Company, Chicago, Ill. Canned, hydrated, or dry compound of vegetables, meats, etc. 273,069; Nov. 27. Class 46.
Wilson Brothers, Media, Pa. Automatic forced-draft blowers for furnaces, boilers, and stoves. 269,061; Nov. 27. Class 34.
Wilson, Thomas B., & Company, Minneapolis, Minn. Watches and clocks. 272,235; Nov. 27. Class 27.
Woods, John J., doing business as Molly Stark Candy Co., Maywood, Ill. Confectionery. 273,427; Nov. 27. Class 46.
Yantis, S. R., Milling Co., The, Fulton, Mo. Wheat flour. 273,788; Nov. 27. Class 46.
Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Locks, keys, etc. 270,906; Nov. 27. Class 25.
Zesinger, William B., West Baden, Ind. Abrasive stones. 258,306; Nov. 27. Class 4.
Zucca's Restaurant, Inc., also doing business as Zucca's Italian Gardens, New York, N. Y. Soups. 272,843; Nov. 27. Class 46.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 1.

Leather, Sole. Guy Lee Leather Company. 250,158; Nov. 27.

## CLASS 2.

Bags of cotton, Netted woven cord laundry. Brighton Mills. 249,982; Nov. 27; Serial No. 270,385; published Sept. 18, 1928.
Plates and dishes, Molded pulp. Keyes Fibre Company. 72,284; renewed Jan. 12, 1929.
Plates and dishes, Molded pulp. Keyes Fibre Company. 72,457; renewed Jan. 26, 1929.

## CLASS 3.

Bags, Baggage. E. A. McDonald. 250,053; Nov. 27; Serial No. 268,291; published Sept. 11, 1928.
Bags, Beaded. Jay Thorpe, Inc. 250,112; Nov. 27; Serial No. 269,788; published Sept. 11, 1928.
Bags, hand bags, portfolios, etc., Traveling. Boyle Leather Goods Co. Inc. 250,116; Nov. 27.
Bags of metal, leather, straw, or textile mat material or combinations of the same, Ladies' hand. Shoecraft Shop Inc. 249,931; Nov. 27; Serial No. 265,991; published Sept. 11, 1928.
Brief cases, wallets, purses, etc. Stein Bros. Mfg. Co. 250,083; Nov. 27; Serial No. 242,512; published Sept. 11, 1928.

## CLASS 4.

Polish, Metal. F. T. Lord Polish Co. 73,188; renewed Mar. 30, 1929.
Polish, Silver, metal, and stove. F. T. Lord Polish Co. 250,146; Nov. 27.
Powder for softening water and for cleansing. James Pyle & Sons. 70,940; renewed Oct. 20, 1928.
Soap, Perfumed toilet. A. & F. Pears Limited. 70,853; renewed Oct. 13, 1928.

## CLASS 5.

Isinglass, Adhesive. Cape Ann Isinglass Company. 249,968; Nov. 27; Serial No. 269,084; published Sept. 11, 1928.

## CLASS 6.

Astringents, astringent cerates, bleach creams, etc. Silver Moon Company. 249,949; Nov. 27; Serial No. 270,613; published Sept. 18, 1928.
Compound, Sizing. Seydel-Woolley Company. 249,976; Nov. 27; Serial No. 270,210; published Sept. 18, 1928.
Cream, Dental. Colgate & Co. 71,432; renewed Nov. 24, 1928.
Cream for the hands. Lesquendieu, Incorporated. 250,169; Nov. 27.
Cream, Reducing. M. H. Spangler. 249,945; Nov. 27; Serial No. 270,656; published Sept. 18, 1928.
Cream rouge for the lips and lip stick. J. Lesquendieu. 250,085; Nov. 27; Serial No. 243,865; published July 19, 1927.
Cream, Skin. B. Anschl. 250,117; Nov. 27.
Cream, Skin. Godefroy Manufacturing Company. 250,012; Nov. 27; Serial No. 268,922; published Sept. 18, 1928.
Creams, lip sticks, pomades, etc., Face. F. Prochaska, Ltd. 250,147; Nov. 27.
Lipoidal extract. Parke, Davis & Company. 249,971; Nov. 27; Serial No. 270,044; published Sept. 18, 1928.
Medicated candy. C. F. Ampt. 249,947; Nov. 27; Serial No. 270,529; published Sept. 18, 1928.
Medicinal preparation. Chemische Fabrik von Heyden, A. G. 250,063–4; Nov. 27; Serial Nos. 267,931–2; published Sept. 18, 1928.

Medicinal preparations. C. I. Leeper. 250,122; Nov. 27.
Medicine. John Helland Co. 249,937; Nov. 27; Serial No. 270,845; published Sept. 18, 1928.
Medicine. John Helland Co. 249,938; Nov. 27; Serial No. 270,844; published Sept. 18, 1928.
Medicine. Hollings-Smith Co. 249,948; Nov. 27; Serial No. 270,484; published Sept. 18, 1928.
Medicine for dyspepsia. Dispepcura Medicine Company. 250,099; Nov. 27; Serial No. 268,799; published Sept. 11, 1928.
Medicines. Acme Products Limited. 249,926; Nov. 27; Serial No. 265,513; published Sept. 11, 1928.
Ointment. M. Mourtaoglou. 250,089; Nov. 27; Serial No. 250,935; published Sept. 18, 1928.
Perfumes, toilet powders, and toilet waters. B. Hermanos. 249,990; Nov. 27; Serial No. 263,914; published Sept. 18, 1928.
Powder, cleansing and tissue creme, and astringent lotion, etc., Complexion. Puritan Pharmaceutical Company. 250,030; Nov. 27; Serial No. 267,010; published Sept. 11, 1928.
Powders, pastes, washes, and other dentifrices, Tooth. Kotobukiya Company Limited. 250,003; Nov. 27; Serial No. 260,180; published July 17, 1928.
Preparation for certain diseases. T. M. Sayman. 70,818; renewed Oct. 6, 1928.
Preparation for destroying rodents. California Rex Spray Co. 250,110; Nov. 27; Serial No. 269,941; published Sept. 18, 1928.
Preparation for exterminating ants. J. A. Nelson. 250,152; Nov. 27.
Preparation for piles. C. S. Brooking. 250,167; Nov. 27.
Preparation, Hairdressing. P. Marochini. 250,008; Nov. 27; Serial No. 268,987; published Sept. 18, 1928.
Preparation to be added to acid pickling baths. R. T. Vanderbilt Company. 250,153; Nov. 27.
Purge and preservative, Scientific. Midwest Chemical Products, Inc. 250,143; Nov. 27.
Remedy for certain diseases. N. C. Polson. 69,138; renewed May 19, 1928.
Resins, Synthetic or chemically-prepared. Resinous Products and Chemical Company. 249,942; Nov. 27; Serial No. 270,757; published Sept. 18, 1928.
Salve. G. N. Pappas. 249,972; Nov. 27; Serial No. 270,143; published Sept. 18, 1928.
Salves, Healing. W. H. McCree. 250,058; Nov. 27; Serial No. 268,051; published Sept. 18, 1928.
Serum for the treatment of tuberculosis. D. Meredith. 249,941; Nov. 27; Serial No. 270,773; published Sept. 18, 1928.
Spray, Nose and throat. Stanco Incorporated. 250,034; Nov. 27; Serial No. 266,763; published Sept. 18, 1928.
Tonic, Poultry. L. B. Brown. 250,039; Nov. 27; Serial No. 266,239; published Aug. 7, 1928.
Tooth paste. A/S Si-Ko. 250,054; Nov. 27; Serial No. 268,260; published Sept. 18, 1928.
Vitaminous dietary supplement. E. R. Squibb & Sons. 250,079; Nov. 27; Serial No. 269,372; published Sept. 18, 1928.

CLASS 8.

Humidors. J. W. Rogoski. 249,934; Nov. 27; Serial No. 270,977; published Sept. 18, 1928.
Tobacco containers, tobacco-pipe holders, etc. Colt's Patent Fire Arms Manufacturing Co. 250,020; Nov. 27; Serial No. 268,776; published Sept. 18, 1928.

CLASS 9.

Matches. Amtorg Trading Corporation. 249,936; Nov. 27; Serial No. 270,870; published Sept. 18, 1928.

CLASS 10.

Fertilizer. Baugh and Sons Company. 250,118–19; Nov. 27.
Fertilizer. Baugh and Sons Company. 250,125; Nov. 27.
Fertilizers. International Agricultural Corporation. 250,062; Nov. 27; Serial No. 267,960; published Sept. 18, 1928.
Fertilizing materials, Plant-. Wilson & Toomer Fertilizer Co. 70,947; renewed Oct. 20, 1928.

CLASS 12.

Bonding material, Refractory. Lava Crucible Company of Pittsburgh. 250,148; Nov. 27.
Stairways. Woodbridge Ornamental Iron Company. 250,164; Nov. 27.
Stairways, Disappearing. Bessler Disappearing Stairway Co. 250,154; Nov. 27.
Tiles. Egbert Concrete Products, Inc. 250,163; Nov. 27.

CLASS 13.

Fasteners, Separable. Hookless Fastener Company. 250,113; Nov. 27; Serial No. 269,783; published Sept. 18, 1928.
Fence, Wire. Keystone Steel & Wire Company. 250,159; Nov. 27.
Pins, Cotter. American Chain Company. 250,162; Nov. 27.
Toilet fixtures, valves, etc. Repcal Brass Mfg. Co. 249,992; Nov. 27; Serial No. 263,513; published Sept. 18, 1928.
Valves, Heating and flush. Direct Control Valve Company. 250,149; Nov. 27.

CLASS 14.

Alloy metal mixture. Mueller Brass Co. 250,071; Nov. 27; Serial No. 269,537; published Sept. 11, 1928.
Bronze ingots, castings, etc. American Brass Company. 250,026–7; Nov. 27; Serial Nos. 267,475–6; published Sept. 11, 1928.
Iron and steel in the shape of rolled or hammered bars, etc. Uddeholms Aktiebolag. 250,037–8; Nov. 27; Serial Nos. 266,444–5; published Sept. 11, 1928.
Welding rods. Ohio Brass Company. 250,010; Nov. 27; Serial No. 268,934; published Sept. 11, 1928.

CLASS 15.

Gasoline. General Petroleum Corporation of California. 250,111; Nov. 27; Serial No. 269,895; published Sept. 18, 1928.
Gasoline. Skelly Oil Company. 249,981; Nov. 27; Serial No. 270,355; published Sept. 18, 1928.
Oil, Lubricating. Sun Oil Company. 249,980; Nov. 27; Serial No. 270,306; published Sept. 18, 1928.
Oils and greases, Lubricating. Air-Way Motor Oil Company. 250,013; Nov. 27; Serial No. 268,900; published Sept. 18, 1928.
Oils, greases, compounds, Lubricating. American Oil Corporation. 249,963; Nov. 27; Serial No. 269,217; published Sept. 18, 1928.
Oils, Lubricating. Mid-West Oil Company. 249,984; Nov. 27; Serial No. 270,385; published Sept. 18, 1928.
Oils, Lubricating. Texas Pacific Coal and Oil Company. 250,057; Nov. 27; Serial No. 268,188; published Sept. 18, 1928.
Oils, Motor-lubricating. Dearborn Chemical Company. 250,018; Nov. 27; Serial No. 268,850; published Sept. 18, 1928.

CLASS 16.

Cleaner and polish. Beats-All Co. 249,960; Nov. 27; Serial No. 260,275; published Sept. 11, 1928.
Lacquer, Finishing. Mid-Continent Lacquer Mfg. Co. 250,137; Nov. 27.
Paint. Red Spot Paint & Varnish Co., Inc. 249,975; Nov. 27; Serial No. 270,202; published Sept. 11, 1928.
Paint. A. H. Sweet. 250,014; Nov. 27; Serial No. 268,892; published Sept. 11, 1928.
Paint, paint oils, putty, etc., Ready-mixed and paste. Gustav Ruth Aktiengesellschaft. 249,927; Nov. 27; Serial No. 265,791; published Sept. 11, 1928.
Paints. Everlasting Paint & Sales Company. 249,996; Nov. 27; Serial No. 262,601; published Sept. 11, 1928.
Paints, varnishes, and lacquers, Ready-mixed. Michael McNamara Varnish Works. 250,024; Nov. 27; Serial No. 267,598; published Sept. 11, 1928.
Preparation for cleaning, etc. Superior Products Company. 250,120; Nov. 27.
Preparations, Cleaning and polishing. W. R. Knott. 250,044; Nov. 27; Serial No. 269,666; published Sept. 11, 1928.

CLASS 17.

Cigars. Jamaica Tobacco Company. 71,232; renewed Nov. 10, 1928.

CLASS 19.

Boats, Motor. Fairchild Aviation Corporation. 250,045; Nov. 27; Serial No. 269,649; published Sept. 18, 1928.
Bumpers, Automobile. C. G. Spring and Bumper Company. 250,128–9; Nov. 27.
Vehicle bodies and tops. American Coach & Body Co. 250,124; Nov. 27.
Vehicles, Light. F. A. Whitney Carriage Company. 249,965; Nov. 27; Serial No. 269,214; published Sept. 18, 1928.

CLASS 20.

Cloths, napkins, scarfs, etc., Table. Mayfair Textile Corporation. 250,032; Nov. 27; Serial No. 266,942; published Sept. 18, 1928.

CLASS 21.

Connection Clips. Mueller Electric Company. 249,985; Nov. 27; Serial No. 265,340; published Sept. 4, 1928.
Electric connecting devices, Multiple. Colt's Patent Fire Arms Manufacturing Co. 250,005; Nov. 27; Serial No. 256,604; published Sept. 18, 1928.
Lamps, Incandescent. Federal Distributing Company. 249,997; Nov. 27; Serial No. 261,748; published Sept. 18, 1928.
Lighters, Electric cigar. J. H. Cohen. 250,052; Nov. 27; Serial No. 268,585; published Sept. 18, 1928.
Ovens, Electric bake. Bakers Supply & Equipment Co. 250,047; Nov. 27; Serial No. 268,728; published Sept. 18, 1928.
Radio electron tubes and electric lamps. Sylvania Products Company. 250,048; Nov. 27; Serial No. 268,710; published Sept. 18, 1928.
Radio products. Perfection Radio Corporation of America. 250,150; Nov. 27.
Switches, Electrical. Perkins Electric Switch Manufacturing Company. 71,912; renewed Dec. 22, 1928.

CLASS 22.

Bait, Artificial. Enterprise Manufacturing Company. 250,005–6; Nov. 27; Serial Nos. 260,107–8; published Sept. 11, 1928.



Dice, dice shakers, dominoes, etc. G. E. Koppe. 249,951; Nov. 27; Serial No. 269,352; published Sept. 11, 1928.
Fishhooks. W. E. Compton. 65,988; renewed Nov. 5, 1927.
Fishing lines. United States Whip Co. 249,952–4; Nov. 27; Serial Nos. 269,337–9; published Sept. 11, 1928.
Fishing lines. United States Whip Co. 250,077–8; Nov. 27; Serial Nos. 269,377–8; published Sept. 11, 1928.
Fishing-reel parts. Enterprise Manufacturing Company. 250,007; Nov. 27; Serial No. 260,100; published Sept. 11, 1928.
Game-ball holders. Judd Specialties Inc. 250,092; Nov. 27; Serial No. 251,505; published Sept. 11, 1928.
Games, Parlor. J. W. Spear & Sons, Inc. 250,043; Nov. 27; Serial No. 269,695; published Sept. 11, 1928.
Golf clubs. United States Whip Co. 249,955–6; Nov. 27; Serial Nos. 269,335–6; published Sept. 11, 1928.
Golf clubs. Wilson-Western Sporting Goods Company. 250,042; Nov. 27; Serial No. 269,704; published Sept. 11, 1928.
Golf tees. Collingbourne Mills, Inc. 250,055; Nov. 27; Serial No. 268,212; published Sept. 11, 1928.
Toy or game. Knapp Electric Corporation. 250,109; Nov. 27; Serial No. 269,962; published Sept. 11, 1928.
Toy pistols. National Fireworks, Inc. 250,068–70; Nov. 27; Serial Nos. 269,543–5; published Sept. 11, 1928.
Toy rubber stamps. Superior Type Co. 250,028; Nov. 27; Serial No. 267,469; published Sept. 11, 1928.
Toys, Walking pull. Wallie Dorr Co. Inc. 250,073; Nov. 27; Serial No. 269,437; published Sept. 11, 1928.

CLASS 23.

Machinery for canning and can making. Seattle Astoria Iron Works. 250,151; Nov. 27.
Plows and parts thereof. Syracuse Chilled Plow Co. 71,075–6; renewed Oct. 27, 1928.
Tools, Diamond. Arthur A. Crafts & Co. 250,141; Nov. 27.

CLASS 24.

Washboards. National Washboard Company. 250,087; Nov. 27; Serial No. 247,865; published June 14, 1927.

CLASS 26.

Lenses, Ophthalmic, Univis Lens Company. 250,138; Nov. 27.

CLASS 27.

Clocks, Alarm. W. T. Grant Company. 250,011; Nov. 27; Serial No. 268,924; published Sept. 18, 1928.
Clocks and parts thereof and watchmen's time-indicating clocks, Siemens & Halske Aktiengesellschaft. 250,098; Nov. 27; Serial No. 258,960; published Sept. 18, 1928.
Watches. E. Howard Watch Co. 71,680; renewed Dec. 8, 1928.
Watches, watch movements, etc. Federal Mail Order Corporation. 250,017; Nov. 27; Serial No. 268,859; published Sept. 18, 1928.

CLASS 28.

Necklaces and strings of pearls, etc., Pearl. L. Babchin. 249,991; Nov. 27; Serial No. 263,810; published Sept. 18, 1928.
Pins, Brooch. Evans Case Company. 250,049; Nov. 27; Serial No. 268,686; published Sept. 18, 1928.
Rings, ring mountings, and diamond rings, Wedding. Bolotin & Shelnin. 250,009; Nov. 27; Serial No. 268,962; published Sept. 18, 1928.

CLASS 30.

Potteries. Unaka Potteries, Incorporated. 250,155; Nov. 27.

CLASS 31.

Refrigerators and refrigerating apparatus. Kristol-Kold Company. 250,114; Nov. 27; Serial No. 269,770; published Sept. 18, 1928.

CLASS 32.

Shields and radiator cabinets, Radiator. B. and J. Jacobs Company. 250,132; Nov. 27.

CLASS 33.

Chimneys, lantern globes, and glass reflectors, Lamp. Gill Brothers Company. 71,086; renewed Oct. 27, 1928.
Glass and lenses for automobile, Plate. Ford Motor Company. 250,072; Nov. 27; Serial No. 269,521; published Sept. 18, 1928.

CLASS 34.

Air moistener and humidifier. L. J. Mueller Furnace Company. 250,160; Nov. 27.
Incinerator. Yard-Boy Incinerator Co. 249,933; Nov. 27; Serial No. 271,014; published Sept. 18, 1928.
Incinerators, Garbage. Mid-West Incinerator Corporation. 205,126; Nov. 27.
Limiting devices. Minneapolis-Honeywell Regulator Company. 250,029; Nov. 27; Serial No. 267,875; published Sept. 18, 1928.
Radiators, Air heating and cooling. Murray Radiator Corporation. 250,121; Nov. 27.
Stoves and ranges. Globe Stove and Range Company. 73,004; renewed Mar. 9, 1929.
Ventilators, Wind-actuated roof. W. F. Hirschman Co. 250,166; Nov. 27.

CLASS 35.

Rings, Piston. O. P. Sells. 250,145; Nov. 27.

CLASS 36.

Musical instruments, Stringed. International Musical Corporation. 250,059; Nov. 27; Serial No. 268,015; published Sept. 18, 1928.

CLASS 37.

Paper, Writing. Bermingham & Prosser Company. 250,123; Nov. 27.

CLASS 38.

Cartoons, Series of. Tribune Company. 250,088; Nov. 27; Serial No. 249,553; published July 19, 1927.

CLASS 39.

Coats. Sackrin, Eisenberg & Perlstein. 250,010; Nov. 27; Serial No. 268,818; published Sept. 4, 1928.
Coats and hats. Lucile Staff, Inc. 249,989; Nov. 27; Serial No. 263,957; published Sept. 13, 1928.
Frocks and dresses. Harmony Dress Co. 250,100; Nov. 27; Serial No. 258,812; published July 10, 1928.
Gloves, pajamas, hats, caps, etc. L. J. & C. D. Jaffee Inc. 250,065; Nov. 27; Serial No. 267,772; published Aug. 28, 1928.
Hats, Ladies'. Rosen-Brandt, Inc. 250,025; Nov. 27; Serial No. 267,512; published Aug. 7, 1928.
Hats, Ladies' and misses'. International Millinery Co. Inc. 250,161; Nov. 27.
Powder puffs. House of Tre-Jur, Inc. 250,076; Nov. 27. Serial No. 269,407; published Sept. 11, 1928.
Shirts, Work. Reliance Manufacturing Company. 250,021; Nov. 27; Serial No. 267,723; published Aug. 21, 1928.
Shoes. J. Marshall & Ball, Incorporated. 69,537; renewed June 16, 1928.
Stocking protectors. I. B. Kleinert Rubber Company. 250,131; Nov. 27.
Stockings. Joseph Black & Sons Company. 73,207; renewed Mar. 30, 1929.
Suits, Men's. Bloch Company. 250,136; Nov. 27.
Underwear, Ladies'. Brafman Bros. 249,930; Nov. 27; Serial No. 265,944; published Sept. 4, 1928.
Uniforms and caps. Publix Theatres Corporation. 249,986; Nov. 27; Serial No. 265,164; published Aug. 28, 1928.

CLASS 40.

Bindings and fagoting braid, elastic, shoulder straps, etc., Bias. Bartons Bias Company. 249,929; Nov. 27; Serial No. 265,879; published Sept. 11, 1928.
Buckles for personal wear. Adjusta Co. 250,165; Nov. 27.
Buttons. Art Button Novelty M'f'g. Co. 250,036; Nov. 27; Serial No. 266,452; published Sept. 11, 1928.
Combs. Dr. Heinr. Traun & Söhne, vormals Harburger Gummi-Kamm-Compagnie. 249,994; Nov. 27; Serial No. 262,984; published Sept. 4, 1928.
Elastic bands. Rosenau Bros., Inc. 250,103; Nov. 27; Serial No. 259,184; published Sept. 4, 1928.
Hooks and eyes. American Pin Co. 73,147; renewed Mar. 23, 1929.

CLASS 42.

Blankets and robes, Pure wool textile automobile. William Ayres & Sons, Inc. 250,140; Nov. 27.
Cotton piece goods. J. L. Stifel & Sons. 249,935; Nov. 27; Serial No. 270,944; published Sept. 18, 1928.
Cotton piece goods. Arthur Beir & Co. 250,157; Nov. 27.
Handkerchiefs. International Manufacturing Co. 71,965–7; renewed Dec. 2, 1928.
Novelty or campaign package, Political. E. H. Kluge. 249,974; Nov. 27; Serial No. 270,190; published Sept. 18, 1928.
Silk fabrics in the piece. Onondaga Silk Co. 249,923–4; Nov. 27; Serial Nos. 269,981–2; published Sept. 18, 1928.
Silk fabrics in the piece. Onondaga Silk Co. 249,979; Nov. 27; Serial No. 270,302; published Sept. 18, 1928.
Silk fabrics in the piece. Onondaga Silk Co. 250,108; Nov. 27; Serial No. 269,980; published Sept. 18, 1928.
Tickings. Amoskeag Manufacturing Company. 71,953–4; renewed Dec. 22, 1928.
Voile in the piece of cotton, silk, or wool. Manville Jenckes Company. 250,096; Nov. 27; Serial No. 257,244; published Sept. 18, 1928.
Woolen goods in the piece. Max Hyman & Co. 250,074; Nov. 27; Serial No. 269,408; published Sept. 18, 1928.

CLASS 43.

Cotton, sewing cotton, and thread, Spool. American Thread Company. 71,272; renewed Nov. 17, 1928.
Yarn, Rayon. Viscose Company, The. 249,970; Nov. 27; Serial No. 270,000; published Sept. 11, 1928.

CLASS 44.

Bottles, Nursing. Fraser Valve Corporation. 250,067; Nov. 27; Serial No. 269,581; published Sept. 11, 1928.
Dental appliance assemblies. Ritter Dental Manufacturing Company. 250,015–16; Nov. 27; Serial Nos. 268,885–6; published Sept. 11, 1928.
Manicuring sets. J. Salm. 250,130; Nov. 27.

Permanent-waving machines and accessories. Realistic Permanent Wave Machine Co. 249,987; Nov. 27; Serial No. 264,777; published Sept. 11, 1928.

Radioactive cloth, etc. A. R. Blomberg. 250,041; Nov. 27; Serial No. 269,711; published Sept. 11, 1928.

Surgical instruments. S. Doniger & Co. Inc. 250,084; Nov. 27; Serial No. 242,526; published Sept. 11, 1928.

Toilet atomizers. A. Perugia. 250,004; Nov. 27; Serial No. 260,133; published Sept. 11, 1928.

CLASS 46.

Artichoke flakes. S. Bitterman. 250,050; Nov. 27; Serial No. 268,670; published Sept. 18, 1928.

Cakes. E. Mayer. 249,966; Nov. 27; Serial No. 269,193; published Sept. 11, 1928.

Candy. M. J. Holloway & Co. 249,977–8; Nov. 27; Serial Nos. 270,294–5; published Sept. 18, 1928.

Candy. Imperial Candy Co. 249,973; Nov. 27; Serial No. 270,186; published Sept. 18, 1928.

Candy, Stick. Duncan May Candy Co. 249,988; Nov. 27; Serial No. 264,753; published Sept. 18, 1928.

Canned evaporated milk. Page Milk Co. 249,958; Nov. 27; Serial No. 269,318; published Sept. 4, 1928.

Canned fish. Griffith-Durney Co. 250,002; Nov. 27; Serial No. 260,269; published July 17, 1928.

Canned fish. Pacific Trading Co. Inc. 250,061; Nov. 27; Serial No. 267,989; published Sept. 18, 1928.

Canned fruits. Hunt Brothers Packing Company. 249,940; Nov. 27; Serial No. 270,770; published Sept. 18, 1928.

Canned fruits and canned vegetables. Stevens Brothers. 72,033; renewed Dec. 29, 1928.

Canned fruits and canned vegetables. Stevens Brothers. 72,315; renewed Jan. 19, 1929.

Canned fruits, canned vegetables, etc. Wurm Brothers Company. 250,156; Nov. 27.

Canned fruits, prepared prunes in syrup, etc. Richmond-Chase Company. 250,102; Nov. 27; Serial No. 259,080; published Sept. 18, 1928.

Canned grapefruit. Sumter Packing Company. 250,134; Nov. 27.

Canned salmon. Kadiak Fisheries Company. 249,939; Nov. 27; Serial No. 270,796; published Sept. 18, 1928.

Canned vegetables. Western Grocer Company. 250,000; Nov. 27; Serial No. 260,863; published Sept. 4, 1928.

Carrots, lettuce, beets, etc., Fresh. Atlantic Commission Co. 250,115; Nov. 27; Serial No. 267,526; published Aug. 21, 1928.

Cereal breakfast food. Kellogg Company. 249,903; Nov. 27; Serial No. 263,321; published Sept. 11, 1928.

Cheese. Alfred Gerber. 249,983; Nov. 27; Serial No. 270,374; published Sept. 11, 1928.

Cooking compounds, salad dressing, and prepared mustard. Cream Dove Mfg. Co., Inc. 250,101; Nov. 27; Serial No. 259,052; published Sept. 11, 1928.

Corn meal, dairy rations, etc. La Fayette Roller Mills. 249,969; Nov. 27; Serial No. 269,029; published Sept. 11, 1928.

Currants and mincemeat, Dried. W. H. Marvin Company. 250,086; Nov. 27; Serial No. 246,490; published May 31, 1927.

Dates and toasted and salted nuts, Fresh, stuffed, and candied. Florita Nut Company. 250,090; Nov. 27; Serial No. 251,328; published Sept. 18, 1928.

Eggs. McCann & Company. 250,142; Nov. 27.

Extracts, Malt. Forest Hills Company. 250,098; Nov. 27; Serial No. 257,866; published Jan. 17, 1928.

Feeds, Horse, poultry, etc. Corno Mills Company. 250,023; Nov. 27; Serial No. 267,633; published Sept. 11, 1928.

Feeds, Stock and poultry. Park, P. R. 249,961–2; Nov. 27; Serial Nos. 269,250–1; published Sept. 11, 1928.

Figs, Packages of washed dried. Federal Date and Fig Company. 249,998; Nov. 27; Serial No. 261,299; published Sept. 18, 1928.

Fish fillets, Fresh. H. I. Bedner. 249,995; Nov. 27; Serial No. 262,948; published Aug. 7, 1928.

Flour, breakfast cereal, etc., Wheat. Doud Milling Company. 250,091; Nov. 27; Serial No. 251,492; published Sept. 11, 1928.

Flour, Pancake. E. R. Pahl & Co. 70,909; renewed Oct. 13, 1928.

Flour, Wheat. Graham Mill & Elevator Co. 249,950; Nov. 27; Serial No. 269,288; published Sept. 11, 1928.

Flour, Wheat. Rea-Patterson Milling Company. 249,928; Nov. 27; Serial No. 265,693; published July 17, 1928.

Food compound of rice, tapioca, and arrowroot. Alley Company. 249,964; Nov. 27; Serial No. 269,216; published Sept. 11, 1928.

Fruits, Dried. Sunrise Packing Company. 249,999; Nov. 27; Serial No. 260,922; published Sept. 18, 1928.

Fruits, Fresh. Hoosier Apple and Peach Growers, Inc. 250,001; Nov. 27; Serial No. 260,826; published Sept. 18, 1928.

Fruits, Fresh citrus. Rialto Orange Co. 249,943; Nov. 27; Serial No. 270,722; published Sept. 18, 1928.

Fruits, fresh vegetables, etc., Fresh citrus. Peppers Fruit Company. 250,060; Nov. 27; Serial No. 267,992; published Sept. 18, 1928.

Fruits, fresh vegetables, etc., Fresh citrus and deciduous. R. Russel. 250,081–2; Nov. 27; Serial Nos. 240,216–17; published Sept. 18, 1928.

Gelatin dessert. Postum Company. 250,085; Nov. 27; Serial No. 266,480; published Aug. 28, 1928.

Grapes, Fresh. P. Morris. 250,004; Nov. 27; Serial No. 255,818; published Aug. 7, 1928.

Ice cream. Dairy Made Ice Cream Company. 250,127; Nov. 27.

Ice cream, ices, sherbets, etc. Rubyette Co., The. 249,967; Nov. 27; Serial No. 269,154; published Sept. 4, 1928.

Lettuce, Fresh garden. Frye & Company. 250,135; Nov. 27.

Macaroni and egg noodles. Roma Macaroni Company. 250,133; Nov. 27.

Macaroni, spaghetti, vermicelli, and imported sardines. Strohmeyer & Arpe Co. 73,225; renewed Mar. 30, 1929.

Marshmallow topping, chocolate syrups, etc. Princess Confectionery Co. 249,925; Nov. 27; Serial No. 265,447; published Sept. 11, 1928.

Mayonnaise, gelatine, yeast, etc. Royal Baking Powder Company. 250,106; Nov. 27; Serial No. 218,875; published Sept. 4, 1928.

Meal, Linseed. Linseed Meal Educational Committee. 250,107; Nov. 27; Serial No. 273,483.

Milk, Evaporated. Pango Milk Chocolate Co. 250,105; Nov. 27; Serial No. 259,818; published Sept. 11, 1928.

Molasses. Penick & Ford, Ltd. 250,080; Nov. 27; Serial No. 269,364; published Sept. 4, 1928.

Nuts. A. Nones & Co. 250,022; Nov. 27; Serial No. 267,716; published Sept. 18, 1928.

Oil, Cottonseed. McCaw Manufacturing Co. 70,912; renewed Oct. 13, 1928.

Oil, Olive. G. Ebrat. 71,374; renewed Nov. 24, 1928.

Oil, Olive. Cottone Bros., Inc. 250,046; Nov. 27; Serial No. 269,639; published Sept. 11, 1928.

Oleomargarine. Ohio Butterine Co. 250,139; Nov. 27.

Oranges and grapefruit, Fresh. American Fruit Distributors, Inc. 250,056; Nov. 27; Serial No. 268,202; published Sept. 18, 1928.

Peanuts. Curtiss Candy Company. 250,031; Nov. 27; Serial No. 266,978; published Sept. 18, 1928.

Pickles. Em-It-Products Company. 249,944; Nov. 27; Serial No. 270,695; published Sept. 18, 1928.

Pork products. S. W. Stauffer. 250,033; Nov. 27; Serial No. 266,894; published Sept. 18, 1928.

Pork roll. Taylor Provision Company. 73,183; renewed Mar. 23, 1929.

Preserves, pies, coffee, cakes, etc., Fruit. Savarins, Inc., The. 250,040; Nov. 27; Serial No. 266,049; published Sept. 4, 1928.

Sugar, Granulated. American Sugar Refining Company. 73,093–8; renewed Mar. 16, 1929.

Sugar, Hard. American Sugar Refining Company. 70,099–101; renewed Mar. 16, 1929.

Syrup, Cane and maple. Younglove and Company. 250,168; Nov. 27.

Syrup, Chocolate malt. William S. Scull Company. 249,957; Nov. 27; Serial No. 269,322; published Sept. 4, 1928.

Syrup, Malt. Blue Ribbon Products Company. 250,104; Nov. 27; Serial No. 259,710; published Sept. 4, 1928.

Syrup, Malt. Haas-Lieber Grocery Company. 250,066; Nov. 27; Serial No. 267,765; published Sept. 4, 1928.

Syrup, Malt. Manitowoc Products Company. 249,950; Nov. 27; Serial No. 269,360; published Sept. 4, 1928.

Syrup, Malt. N. Milgram. 250,075; Nov. 27; Serial No. 269,417; published Sept. 4, 1928.

Syrup, Malt. W. F. Zimmermann. 250,051; Nov. 27; Serial No. 268,622; published Sept. 11, 1928.

Syrup, Maple. Vermont Maple Syrup Co. 250,144; Nov. 27.

Tarts and coffee rings. Savoy Baking Company. 249,932; Nov. 27; Serial No. 265,986; published Sept. 11, 1928.

Tuna fish, butter, coffee, etc. McClintock-Trunkey Co. 250,097; Nov. 27; Serial No. 257,632; published Sept. 4, 1928.

# ALPHABETICAL LIST OF LABELS.

Answer. For Soap. W. K. Banes. 34,989; Nov. 27.

Arpeako Butter. For Butter. Rochester Packing Co. 35,009; Nov. 27.

Arpeako Lard. For Lard. Rochester Packing Co. 34,010; Nov. 27.

Arpeako Pure Pork Sausage (Little Links). For Pure Pork Sausage, Little Links. Rochester Packing Co. 35,011; Nov. 27.

Arpeako Sausage Meat. For Sausage Meat. Rochester Packing Co. 35,008; Nov. 27.

Arwell Kloromist. For Insecticide. Arwell Products Company. 34,988; Nov. 27.

Bardell Viewpack No. 5. For Souvenir Mailing Cards. J. C. Bardell. 34,990; Nov. 27.

Beech-Nut Coffee. For Coffee. Beech-Nut Packing Company. 34,991; Nov. 27.

Bull Frog. For Malt Extract. Great West Sales Corporation. 34,997; Nov. 27.

C. H. Baker. For Footwear. Frank C. Meyer Company. 35,003; Nov. 27.

Coney Island. For Malt Beverages. G. Heilman Brewing Co. 35,000; Nov. 27.

F. H. C. Home Made Preserve. For Preserves. H. Cohen. 34,995; Nov. 27.

Gold Spun Egg Noodles. For Noodles. Schoneberger & Sons. 35,018; Nov. 27.

Home Kraft Candies. For Candy. Geo. Haas & Sons. 34,998; Nov. 27.

Home Made Bread. For Bread. Central Waxed Paper Company. 34,993; Nov. 27.

Home-Made Specials. For Candy. Geo. Haas & Sons. 34,999; Nov. 27.

Kozak Auto Dry Wash. For Chemically-Treated Cleaning and Polishing Cloths. Kozak, Inc. 35,002; Nov. 27.

Meadow Gold. For Candy. Williamson Candy Co. 35,020; Nov. 27.

Miami Maid. For Bread. Dayton Bread Company. 34,996; Nov. 27.

Milk Choco—Tales Circus Performers. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,012; Nov. 27.

Milk Choco—Tales Cowboys and Indians. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,015; Nov. 27.

Milk Choco—Tales Farmyard Capers. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,017; Nov. 27.

Milk Choco—Tales Hans & Gretchen. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,013; Nov. 27.

Milk Choco—Tales Little Red Riding Hood. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,014; Nov. 27.

Milk Choco—Tales Little Snow-White. For Molded Chocolate Cakes. Scharf Brothers Co. Inc. 35,016; Nov. 27.

Miller's Malted Milk Bread. For Bread. Miller-Parrott Baking Co. 35,004; Nov. 27.

Mother Hubbard. For Chocolate Malt Syrup. Mother Hubbard Food Co. Inc. 35,005; Nov. 27.

Mother's Bread. For Bread. Central Waxed Paper Company. 34,992; Nov. 27.

1933 World's Fair. For Malt Syrup. United States Brewing Co. of Chicago. 35,019; Nov. 27.

Pic O Pac. For Fresh Packed Pears. Pinnacle Packing Company. 35,007; Nov. 27.

Polly Junior. For Boxes. Hoague-Sprague Corporation. 35,001; Nov. 27.

Ted's Breakfast Club Coffee. For Coffee. T. Munck. 35,006; Nov. 27.

Yolanda. For Mushroom Sauce. L. Clemente. 34,994; Nov. 27.

# ALPHABETICAL LIST OF PRINTS.

Baby Ruth, America's Favorite Candy. For Candy and Candy Bars. Curtiss Candy Company. 11,344; Nov. 27.

Ball Bearings. For Ball Bearings. The New Departure Manufacturing Company. 11,351; Nov. 27.

Beech-Nut Candy Drops. For Candy. Beech-Nut Packing Company. 11,341; Nov. 27.

Crystal Trees and Boutonnieres—How to make them. For Materials for Making Glass Trees and Boutonnieres. H. H. Ilich. 11,347; Nov. 27.

De Laval, 50 Years of Service to the Dairymen of the World. For Milking Machinery. De Laval Separator Co. 11,345; Nov. 27.

For more than One Hundred Years this House has Collected Pearls. For Pearl Necklaces. Black, Starr & Frost. 11,342; Nov. 27.

Grace Tancill Jersey Dress Model IIA. For Dresses. G. Tancill. 11,354; Nov. 27.

Grace Tancill Jersey Dress Model V. For Dresses. G. Tancill. 11,355; Nov. 27.

Grace Tancill Jersey Dress Model VIIA. For Dresses. G. Tancill. 11,356; Nov. 27.

Kelly Springfield Tires. For Tires. Kelly-Springfield Tire Co. 11,350; Nov. 27.

Mercury. For Printing Inks. Charles Eneu Johnson and Company. 11,349; Nov. 27.

Modern Decorative Effects can be had with Sanitas. For Oilcloth Used for Wall Covering, Decorative, and Other Uses and Purposes. Standard Textile Products Company. 11,353; Nov. 27.

Now You'll Like Bran. For Post's Bran Flakes. Postum Company, Incorporated. 11,352; Nov. 27.

Ozark Black Walnuts. For Toasted Black Walnuts. Blodgett Nut Company. 11,343; Nov. 27.

Quality. For Tanks, Bodies, and Hoists. Heil Co. 11,346; Nov. 27.

The Printer's Inspiration. For Printing Inks. Charles Eneu Johnson and Company. 11,348; Nov. 27.

Welch Concord Harvest Bulletin. For Welch's Grape Juice. Welch Grape Juice Company. 11,357; Nov. 27.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrahams, Samuel L., Lynn, Mass., assignor to General Electric Company. Molding. 1,693,327; Nov. 27.
Abt, Edward C., Chicago, Ill. Radiator cover. 1,693,216; Nov. 27.
Accurate Gasoline Recording Company. (See Mason, A. R., and Failing, assignors.)
Adams, James R., Hatboro, Pa. Roll and making same. 1,693,422; Nov. 27.
Adkins, Frank A., Chicago, assignor to Champion Folding Furniture Company, Waukegan, Ill. Folding cot. 1,693,423; Nov. 27.
Adkins, Frank A., Chicago, and N. S. Harter, assignors to Champion Folding Furniture Company, Waukegan, Ill. Folding bed. 1,693,537; Nov. 27.
Advance Machine Company. (See Richardson, M. H., and Antoine, assignors.)
Ahern, Harry H., Newport News, Va. Heel and arch support. 1,693,424; Nov. 27.
Aiken, Joseph E., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone. 1,693,425; Nov. 27.
Air Reduction Company. (See Roberts, Montague H., assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Keller, Gottlieb, assignor.)
Aktiengesellschaft Brown, Boveri & Cie. (See Wichert, Alfred, assignor.)
Alemite Manufacturing Corporation. (See Pierce, Walter H., assignor.)
Alemite Manufacturing Corporation. (See Robin, John N., assignor.)
Alland, Maurice, Atlantic City, N. J. Adjustable cigar and cigarette holder. 1,692,971; Nov. 27.
Allcutt, Chester T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission device. 1,693,426; Nov. 27.
Allen, Carlos H., Detroit, Mich., assignor to The New Departure Manufacturing Company, Bristol, Conn. Adjusting nut. 1,693,538; Nov. 27.
Allen, James B., et al. (See Tartar, Roscoe C., assignor.)
Allen, W. D., Manufacturing Company. (See Meng, Harry E., assignor.)
Allenic, Paul, Paris, France. Gradual-clamping clip for braces, sock suspenders, and such like. 1,692,917; Nov. 27.
Allis-Chalmers Manufacturing Company. (See Nye, Henry V., assignor.)
Allmänna Svenska Elektriska Aktiebolaget. (See Rönnberg, D., and Rooth, assignors.)
All Metal Products Company. (See Schmidt, William F., assignor.)
Alsaker, Alfred. (See Van Ryan, T., and Alsaker.)
Alsop, Samuel, New York, N. Y. Mixer. 1,693,170; Nov. 27.
Altbach, George H., Brooklyn, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture plate or analogous article. Des. 76,974; Nov. 27.
Altbach, George H., Brooklyn, N. Y., assignor to Eagle Lites, Inc. Bracket plate for lighting fixtures or analogous articles. Des. 76,975; Nov. 27.
American Bottle Company, The. (See Curran, Jerome P., assignor.)
American Can Company. (See Walter, G. F., and Hothersall, assignors.)
American Dressler Tunnel Kilns, Inc. (See Meehan, Paul A., assignor.)
American Encaustic Tiling Company. (See Prouty, Willis O., assignor.)
American Flyer Manufacturing Company. (See Arden, Thomas R., assignor.)
American Flyer Mfg. Co. (See Boisselier, Earl D., assignor.)
American Foundry Equipment Company, The. (See Moore, Raymond H., assignor.)
American Smelting and Refining Company. (See Devick, Joseph C., assignor.)
American Telephone and Telegraph Company. (See Potter, Ralph K., assignor.)
American Telephone and Telegraph Company. (See Shackleton, S. P., and Hansen, assignors.)
American Telephone and Telegraph Company. (See Thompson, Elmer O., assignor.)
American Textile Company. (See Hollingworth, Reginald, assignor.)
Anchor Cap & Closure Corporation. (See Deegan, James O., assignor.)
Andersen, Carl, et al. (See Banner, George A., assignor.)
Anderson, Adolph G. (See Peterson, S. H., and Anderson.)
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Automatic reclosing circuit-breaker system. 1,693,328; Nov. 27.
Anderson, Carl A., Irwin, Pa. Adjustable seat. 1,693,427; Nov. 27.
Anderson, John A., assignor to Central Oil & Gas Stove Company, Gardner, Mass. Enamel-coated article. 1,693,130; Nov. 27.
Anderson, Martin J., assignor to Mathews Conveyer Company, Ellwood City, Pa. Conveying apparatus. 1,693,014; Nov. 27.
Anderson, Walter D., Newcastle, New Brunswick, Canada. Safety guard. 1,692,972; Nov. 27.
Andersson, Axel H., Benton Harbor, Mich., assignor, by mesne assignments, to Remington Rand Inc., Tonawanda, N. Y. Drawer support. 1,692,805; Nov. 27.
Antoine, Alfred D. (See Richardson, M. H., and Antoine.)
Antonelli, Silvio, New Haven, Conn. Signal switch for tanks. 1,693,131; Nov. 27.
Applebaum, Samuel K., Hollywood, Calif. Bottle. Des. 76,976; Nov. 27.
Arden, Thomas R., Baldwin, N. Y., assignor to American Flyer Manufacturing Company, Chicago, Ill. Toy airplane. 1,693,189; Nov. 27.
Arkell Safety Bag Company. (See Hardy, E. C., and Morales, assignors.)
Armour Fertilizer Works. (See MacDowell, C. H., and Meyers, assignors.)
Arnold, Carl, Nuremberg, Germany. Illuminated top. 1,692,802; Nov. 27.
Astley, Edward F., assignor to H. M. Seyer, Chicago, Ill. Brush. 1,693,329; Nov. 27.
Astley, Edward F., assignor to H. M. Seyer, Chicago, Ill. Fountain brush. 1,693,330; Nov. 27.
Atlantic Oil Producing Company. (See Brantly, John E., assignor.)
Atlas, G. & G., Systems, Inc. (See Dinspel, William H., assignor.)
Atteberry, Aden R., and I. J. Blalock, assignors of one-third to C. E. Mills, Stapleton, Nebr. Stovepipe. 1,693,428; Nov. 27.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Casing for electrical apparatus. 1,693,265; Nov. 27.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Casting. 1,693,429; Nov. 27.
Austin, Arthur O., Barberton, assignor, by mesne assignments, to The Ohio Brass Company, Mansfield, Ohio. Casing for electrical apparatus. 1,693,430; Nov. 27.
Automatic Electric Boiler Co. (See Rochester, Richmond, jr., assignor.)
Automatic Electric Inc. (See Erickson, John, assignor.)
Automatic Electric Inc. (See Stehlik, Rudolph F., assignor.)
Babcock, Frederick G., Madison, Ohio. Lens. 1,692,973; Nov. 27.
Babcock & Wilcox Company, The. (See Jacobus, David S., assignor.)
Babcock & Wilcox Company, The. (See Mols, Joseph, assignor.)
Babor, Joseph A., Elmhurst, and W. L. Estabrooke, Yonkers, N. Y. Light-weight molded article and making the same. 1,693,015; Nov. 27.
Bachman, Rudolph, assignor to U. S. Slicing Machine Company, La Porte, Ind. Driving mechanism for slicing machines. 1,692,918; Nov. 27.
Bader, Walter, Spondon, near Derby, England, assignor to Celanese Corporation of America. Manufacture of aliphatic compounds. 1,693,331; Nov. 27.
Badger, Leo A., assignor of one-half to A. Perrotta, Burlington, Vt. Combined shuttle guard and stop motion. 1,693,539; Nov. 27.
Bagby, Ralph B., Cedar Rapids, Iowa, assignor, by mesne assignments, to Cherry-Burrell Corporation, Wilmington, Del. Dasher for ice-cream freezers. 1,693,016; Nov. 27.
Bailey, Walter C., Norwalk, Calif. Disk-drill bit. 1,692,919; Nov. 27.
Bakelite Corporation. (See Groff, Frazier, assignor.)
Baker, Erle K., Chicago, Ill. Decorating articles. 1,692,920; Nov. 27.
Baker, Frederick W., Oldswinford, Stourbridge, England, assignor to Trinity Wheel Corporation. Vehicle wheel. 1,693,360; Nov. 27.
Baldwin, Carl M., Columbus, Ohio. Candy or similar article. Des. 76,977; Nov. 27.
Baldwin, Rosecrans, Chicago, Ill. Seed bag. 1,693,266; Nov. 27.
Balsiger, Harold E., assignor to Landis Tool Company, Waynesboro, Pa. Pump-control device. 1,693,540; Nov. 27.
Banner, George A., assignor of one-third to B. J. Bates and one-third to C. Andersen, Omaha, Nebr. Print plate. 1,693,332; Nov. 27.

Bannlug, Thomas A., jr., Wilmette, Ill. Pumping and metering apparatus. 1,692,921; Nov. 27.
Barker, William M., Canton, Ohio. Balanced ball mill. 1,692,974; Nov. 27.
Barnes, Harold S., Allentown, Pa. Poultry feeder. 1,692,807; Nov. 27.
Barnett, Louis, assignor to Standard Flexible Electric Cable Corporation, Brooklyn, N. Y. Electric-outlet-box support. 1,692,806; Nov. 27.
Baron, Abner, New York, N. Y., assignor to Royal Card & Paper Co. Wrapping paper. Des. 76,978; Nov. 27.
Barrett, Dwight O., Springfield, Ohio. Bearing bushing. 1,693,333; Nov. 27.
Bartley, Harold F., New York, N. Y. Propulsive amusement car or exerciser. 1,692,803; Nov. 27.
Bartholomae, Herbert D., and W. A. Bartholomae, jr., Los Angeles, Calif. Rotary drill. 1,693,017; Nov. 27.
Bartholomae, William A., jr. (See Bartholomae, Herbert D. and W. A., jr.)
Bates, Birt J., et al. (See Banner, George A., assignor.)
Batovec, Frank, jr. (See Batovec, Frank, sr., assignor.)
Batovec, Frank, sr., assignor to F. Batovec, jr., New York, N. Y. Button. 1,693,541; Nov. 27.
Batty, William H., Elmira, N. Y. Hand snowplow. 1,693,472; Nov. 27.
Bauer, Albert L., assignor of one-half to B. M. Brownell, St. Louis, Mo. Bell-ringnig mechanism. 1,692,808; Nov. 27.
Bauman, Harry A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Hot-water bottle. Des. 76,979; Nov. 27.
Baxter, William C. Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method for use in the manufacture of shoes. 1,693,132; Nov. 27.
Bay State Fishing Company. (See Gallison, Ernest A., assignor.)
Beaney Rubber Company. (See Beaney, Thomas A., assignor.)
Beaney, Thomas A., Poughkeepsie, assignor to Beaney Rubber Company, Inc., New York, N. Y. Machine for cutting off stock. 1,693,361; Nov. 27.
Beare, Samuel T., Jackson, Tenn. Headlight. 1,693,334; Nov. 27.
Behning, Edward F., Detroit, Mich., assignor to Diamond State Fibre Company, Bridgeport, Pa. Drive chain. 1,693,431; Nov. 27.
Beiersdorf, Hans, Berlin-Grunewald, Germany, assignor to Westinghouse Electric and Manufacturing Company. Thermal protective system. 1,693,302; Nov. 27.
Bell Equipment Company Limited. (See Dobson, Percy R., assignor.)
Bendix Brake Company. (See Sanford, Roy S., assignor.)
Benedetti, Louis, assignor to E. D. T. Guenther, Columbus, Ohio. Manhole cover. 1,693,190; Nov. 27.
Benjamin, Charles S., East Orange, N. J., assignor to General Chemical Company, New York, N. Y. Making hydrogen chloride and sodium sulphate. 1,693,217; Nov. 27.
Benjamin Electric Mfg. Co. (See Warner, Chester E., assignor.)
Bennett, Ellwood F., Blanton, Fla. Engine-starting-switch extension attachment. 1,692,883; Nov. 27.
Bennett, George E., Riverside, assignor to Saylea Finishing Plants, Inc., Saylesville, R. I. Label for wound or rolled fabrics. 1,693,363; Nov. 27.
Benson, Lester, Willoughby, assignor to The Glenn L. Martin Co., Cleveland, Ohio. Shock absorber. 1,693,571; Nov. 27.
Berg, Ludwig C., Tacoma, Wash. Syringe. 1,692,922; Nov. 27.
Berglind, John E., South Acton, Mass. Rug-making machine. 1,693,267; Nov. 27.
Bergquist, Edward, New York, N. Y. Fountain pen. 1,693,171; Nov. 27.
Bergstein, Samuel, assignor to The Interstate Folding Box Company, Middletown, Ohio. Making and sealing boxes and the like. 1,693,172; Nov. 27.
Bergstrom, Gunde, Los Angeles, Calif. Tabouret. Des. 76,980; Nov. 27.
Bernitz Furnace Appliance Company. (See Nygaard, Oscar, assignor.)
Bersted, Alfred and M., Chicago, Ill. Electric heater for percolators and the like. 1,693,364; Nov. 27.
Bersted, Martin. (See Bersted, Alfred and M.)
Biedermann, Paul R. G., Los Angeles, Calif. Electric heater. 1,693,133; Nov. 27.
Bigney, Sidney O., assignor to S. O. Bigney & Company, Attleboro, Mass. Bracelet chain. 1,692,809; Nov. 27.
Bigney, S. O., & Company. (See Bigney, Sidney O., assignor.)
Bignold, Walter C., San Francisco, Calif. Composing stick. 1,693,105; Nov. 27.
Bird, George H. (See Hutt, J., and Bird.)
Bismarckhütte, Firm. (See Jaworski, Paul, assignor.)
Biszantz, Fred, assignor, by mesne assignments, to The Central Ohio Steel Products Company, Gallon, Ohio. Dumping body. 1,693,543; Nov. 27.
Bixler, James E. (See Smith, T. B., and Bixler.)
Bjornnson, Carl A. (See Clark, C. P., and Bjornnson.)
Blackburn, Ernest. (See Newton, G. V., and Blackburn.)
Blackwood, Oswald H., assignor to The Koppers Company, Pittsburgh, Pa. Recording optical pyrometer. 1,692,923; Nov. 27.
Blaikie, John S., Toronto, Ontario, Canada. Guide for meat slicers. 1,692,810; Nov. 27.
Blake, Frank C., deceased, by R. L. Blake, administratrix, assignor to Lazote Inc., Wilmington, Del. Manufacture of hydrogen. 1,692,811; Nov. 27.
Blake, Roberta L., administratrix. (See Blake, Frank C.)
Blakely, Sidney R., Jamaica Plain, Mass. Boot and shoe and making the same. 1,693,542; Nov. 27.
Blakeslee, George R., executor. (See Blakeslee, George S.)
Blakeslee, George S., Oak Park, Ill., deceased; G. R. Blakeslee, executor. Machine for washing and drying sheet-metal boxes or cans. 1,692,812; Nov. 27.
Blalock, Ira J. (See Atteberry, A. R., and Blalock.)
Blaw, Jacob B., deceased; S. H. Blaw, executrix, Atlantic City, N. J. Interior-wall construction. 1,693,572; Nov. 27.
Blaw, Sadie H., executrix. (See Blaw, Jacob B.)
Block, Alexander E., St. Louis, Mo. Shoe and making same. 1,693,218; Nov. 27.
Blunt, James G., Schenectady, N. Y. Variable-exhaust nozzle. 1,693,219; Nov. 27.
Bock Laundry Machine Company, The. (See Bock, William E., assignor.)
Bock, William E., Eagle Point Colony, assignor, by mesne assignments, to The Bock Laundry Machine Company, Toledo, Ohio. Centrifugal machine. 1,692,804; Nov. 27.
Bockhoff, William F., assignor to The National Automatic Tool Company, Richmond, Ind. Successive pulley drive for drilling machines. 1,693,018; Nov. 27.
Bockmühl, Max, Hochst-on-the-Main, and A. Schwarz, Frankfort-on-the-Main, Germany, assignors, by mesne assignments, to Winthrop Chemical Company, New York, N. Y. Therapeutically-active aromatic compound containing mercury in a lateral chain and making the same. 1,693,432; Nov. 27.
Boe, Hans M., assignor to Boe Manufacturing Company, Minneapolis, Minn. Oil-display device. 1,693,019; Nov. 27.
Boe Manufacturing Company. (See Boe, Hans M., assignor.)
Boggs, Irvine P., Wheeling, W. Va. Artificial limb. 1,692,975; Nov. 27.
Boiseelier, Earl D., assignor to American Flyer Mfg. Co., Chicago, Ill. Window construction for toy cars. 1,693,191; Nov. 27.
Bonnell, Harry L. (See Phelp, Phil F., assignor.)
Borden Company, The. (See Taylor, Burt E., assignor.)
Borzin, Milon H., and A. Mitru, Chicago, Ill. Closure lock. 1,693,544; Nov. 27.
Bossert, Walter F. (See Roughan, John E., assignor.)
Bovey, Thomas, Chicago, Ill. Automobile heater. 1,693,473; Nov. 27.
Bowling Green Poultry Supply Company, The. (See Pierce, Esta M., assignor.)
Boyle, William E., and H. R. Searing, assignors to Engineering Products Corporation Inc., New York, N. Y. Forming high-tension cable joints or splices for underground systems. 1,693,365; Nov. 27.
Bradshaw, Charles A., et al. (See Fawcett, Alvin A., assignor.)
Bradshaw, Hawley S., et al. (See Fawcett, Alvin A., assignor.)
Bramley-Moore, Swinfen, White Plains, N. Y. Crushing, grinding, and refining machine. 1,692,884; Nov. 27.
Bramley-Moore, Swinfen, White Plains, N. Y., assignor of one-half to J. McIntyre, Portobello, Midlothian, Scotland. Grinding, refining, and mixing machine. 1,692,903; Nov. 27.
Brand Company. (See Laughlin, Robert, assignor.)
Brantley, John E., Upper Darby, assignor to Atlantic Oil Producing Company, Philadelphia, Pa. System of determining core dip. 1,692,885; Nov. 27.
Brauckmeyer, Rudolf, Grunberg i/Schlesien, Germany. Degreasing raw wool. 1,693,106; Nov. 27.
Brendlin, Adolf, Knapsack, near Cologne, Germany. Device for cleaning tubes or the like. 1,693,134; Nov. 27.
Brett, Jack. (See Morton, E. D., and Brett.)
Broad, William. (See Hochstetter, F. W., and Broad.)
Broersma, Charles, Tony, Wis. Teat dilator. 1,693,545; Nov. 27.
Brogden, Ernest M., Santa Monica, and M. L. Trowbridge, Palms, Calif., assignors to Brogdex Company, Winter Haven, Fla. Preparation of fresh fruit for market. 1,693,575; Nov. 27.
Brogdex Company. (See Brogden, E. M., and Trowbridge, assignors.)
Brown Brothers Welding Company. (See Brown, Hugh F., assignor.)
Brown, Edward T., assignor to Ford Motor Company, Detroit, Mich. Manufacture of glass. 1,692,813; Nov. 27.
Brown, George H., Newton, Mass. Condenser. 1,693,173; Nov. 27.
Brown, Hugh F., assignor to Brown Brothers Welding Company, San Francisco, Calif. Burner holder. 1,692,924; Nov. 27.
Brown, Hugh F., assignor to Brown Bros. Welding Company, San Francisco, Calif. Burner holder. 1,692,925; Nov. 27.
Brown, James F., Cincinnati, Ohio. Sales chart. 1,692,886; Nov. 27.
Brownell, Barnett M. (See Bauer, Albert L., assignor.)
Brueshaber, Martin W., Chicago, Ill., assignor to Goss Printing Press Company. Printing press. 1,692,814; Nov. 27.
Bruneau, Hudger, Woonsocket, R. I. Can opener. 1,693,020; Nov. 27.





Bryant Electric Refrigerator Corporation. (See Bryant, Forest L., assignor.)
Bryant, Forrest L., Johnson City, N. Y., assignor to Bryant Electric Refrigerator Corporation, Wilmington, Del. Refrigerating unit. 1,693,433; Nov. 27.
Brydon, Andrew W. (See Hodgart, J. H., and Brydon.)
Burdick, John C., et al. (See Dow, John G., assignor.)
Burger, Abraham, Toronto, Ontario, Canada. Smoker's ash receiver. 1,693,268; Nov. 27.
Burnham, Harry S., Schenectady, N. Y. Locomotive. 1,693,220; Nov. 27.
Burt, Frederick, L., Weehawken, N. J. Game apparatus. 1,693,474; Nov. 27.
Burt, F. N., Company. (See Carle, Harold, assignor.)
Buse, Otto H., Shaker Heights, assignor to The Grasselli Chemical Company, Cleveland, Ohio. Mechanical furnace. 1,693,366; Nov. 27.
Bush, A. G. (See Criner, Harry J., assignor.)
Butterworth, Harry W., jr. (See Rowley, W. S., and Butterworth.)
Butterworth, H. W., & Sons Company. (See Rowley, W. S., and Butterworth, assignors.)
C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
Calcott, William S., Penns Grove, and H. W. Daudt, Carneys Point, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Making tetraalkyl lead. 1,692,926; Nov. 27.
Calcott, William S., and H. W. Daudt, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of benzoates. 1,692,927; Nov. 27.
Caldwell, Frank W. (See McCauley, E. G., and Caldwell.)
Callahan, George H., Gloucester, N. J. Hose coupling. 1,693,367; Nov. 27.
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Protective guard for winding or other machines. Re17,145; Nov. 27.
Cameron, James A., assignor to Cameron Machine Company, Brooklyn, N. Y. Slitting means. 1,692,815; Nov. 27.
Cameron Machine Company. (See Cameron, James A., assignor.)
Cameron, Will J., Chicago, Ill. Diagnostic instrument. 1,693,021; Nov. 27.
Campbell, Thomas F., assignor of sixty one-hundredths to R. S. Shannon, Denver, Colo. Derrick. 1,693,107; Nov. 27.
Capezio, Salvatore, East Paterson, N. J. Ballet slipper and making the same. 1,693,174; Nov. 27.
Capstan Glass Company. (See Piazzoll, Louis P., jr., assignor.)
Car Devices Company. (See Hannaford, Cleon M., assignor.)
Cardwell, Allen D., Rockville Center, N. Y. Electromagnet. 1,693,135; Nov. 27.
Carle, Harold, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Machine for making paper boxes. 1,693,136; Nov. 27.
Carlsson, Ernst H., Oscarshamn, Sweden. Machine for ramming paving stones and the like. 1,693,221; Nov. 27.
Carney, Elisabeth, assignor to Franklin Simon & Company, Inc., New York, N. Y. Coat. Des. 76,981; Nov. 27.
Carr Fastener Company. (See Johnson, Gustav, assignor.)
Carter, Edward. (See Treglown, G. H., and Carter.)
Carter, William W., Needham, assignor of one-half to H. T. Nelson, Boston, Mass. Cellulose product and producing such product. 1,693,573; Nov. 27.
Casner, Annie E., Camden, N. J. Toilet-seat cover. 1,693,501; Nov. 27.
Casper, Louis, Brooklyn, N. Y. Massage instrument. 1,693,137; Nov. 27.
Casselman, Elbridge J., assignor to Window Glass Machine Company, Pittsburgh, Pa. Process of and apparatus for making clay articles. 1,692,887; Nov. 27.
Castro, Jeanne, New York, N. Y., assignor to R. & H. Simon Company. Textile fabric. Des. 76,982; Nov. 27.
Castro, Jeanne, New York, N. Y., assignor to R. & H. Simon Company. Textile fabric. Des. 76,983; Nov. 27.
Cavalli, Tito L., Benicia, Calif. Milk-bottle container. 1,693,434; Nov. 27.
Celanese Corporation of America. (See Bader, Walter, assignor.)
Cellocilk Company. (See Furness, William H., assignor.)
Central Ohio Steel Products Company. (See Biszantz, Fred, assignor.)
Central Oil & Gas Stove Company. (See Anderson, John A., assignor.)
Chamberlin, Earl A., Cedar Rapids, Iowa; Humidifier. 1,692,816; Nov. 27.
Chambers Brothers Company. (See King, Howard K., assignor.)
Champion Folding Furniture Company. (See Adkins, Frank A., assignor.)
Champion Folding Furniture Company. (See Adkins, F. A., and Harter, assignors.)
Chapman, William E., Columbus, Ohio. Cover-clamping means for bedsteads. 1,693,022; Nov. 27.
Chemisch-Pharmaceutische Aktiengesellschaft Bad Homburg. (See Liebrecht, Arthur, assignor.)





Chemische Fabrik auf Actien, vorm. E. Schering. (See Schoeller, W., and Schmidt, assignors.)
Cherry-Burrell Corporation. (See Bagby, Ralph B., assignor.)
Cherry, Effie M. (See Cherry, George C., assignor.)
Cherry, George C., assignor to E. M. Cherry, Dallas, Tex. Mosquito and insect trap. 1,693,368; Nov. 27.
Chester, Fremont, Rochester, N. Y. Sign. Des. 76,984; Nov. 27.
Christman, Clarence H., assignor, by mesne assignments, to National Aluminate Corporation, Chicago, Ill. Treating corn-syrup and corn-sugar liquors. 1,692,817; Nov. 27.
Christoph, George W., Warehouse Point, Conn. Soldering radiators. 1,692,818; Nov. 27.
Cincinnati Grinders Incorporated. (See Helm, Lewis R., assignor.)
Clapp, George W., R. W. Tench, and L. W. Dunham, New York, N. Y., assignors to The Dentists' Supply Company. Denture, partial denture, and making same. 1,692,928; Nov. 27.
Clapper, John S., assignor to Toro Manufacturing Company, Minneapolis, Minn. Lawn mower. 1,693,475; Nov. 27.
Clark Brothers Company. (See Clark, C. P., and Bjornnson, assignors.)
Clark, Charles P., Olean, and C. A. Bjornnson, Wellsville, assignors to Clark Brothers Company, Olean, N. Y. Fuel-injection mechanism. 1,693,546; Nov. 27.
Clark, Eugene C. (See Tutt, L. H., and Clark.)
Clark, Jeddia B., assignor to The Indiana Glass Company, Dunkirk, Ind. Tumbler or similar article. Des. 76,985; Nov. 27.
Clark, Jeddia B., assignor to The Indiana Glass Company, Dunkirk, Ind. Tumbler or similar article of manufacture. Des. 76,986; Nov. 27.
Clarke, Thomas J., Jamestown, N. Y. Powder box. 1,693,435; Nov. 27.
Cleaves, William S., Wollaston, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Making paper boxes. 1,693,023; Nov. 27.
Clement, Edward E., Ocean City, N. J. Internal-combustion engine. 1,693,547; Nov. 27.
Clement, Hans, New York, and E. L. Ryer, Hawthorne, N. Y., assignors to General Optical Co., Inc. Optical test chart. 1,692,929; Nov. 27.
Clulee, Harry I., assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Tool handle. 1,693,269; Nov. 27.
Cochran, Paul B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-responsive material. 1,693,369; Nov. 27.
Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,693,370; Nov. 27.
Colgrove, Bert D., Denver, Colo. Automobile tire rim. 1,693,192; Nov. 27.
Collins, George E., St. Louis, Minn. Towel rack. 1,693,477; Nov. 27.
Collis, O. D. (See Donath, Otto A., assignor.)
Conly, Frank, Indianapolis, Ind. Lock. 1,693,583; Nov. 27.
Connecticut Chiropractors' Association. (See Ferguson, Elmer W., assignor.)
Conrad, Frank. (See Nyman, A., and Conrad.)
Consolidated Ashcroft Hancock Company. (See Ileman, Emil A., assignor.)
Continental Oil Company. (See Naylor, Leslie W., assignor.)
Copeman, Lloyd G., Flint, Mich. Refrigerating system and operating the same. 1,693,138; Nov. 27.
Copley, Almon W., San Francisco, Calif., and R. D. Evans, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. System of distribution. 1,693,574; Nov. 27.
Corbett, Matt Q., Dayton, Ohio. Airship mooring mast. 1,693,476; Nov. 27.
Corell, Martin. (See Kränzlein, G., Zahn, Ochwat, and Corell.)
Correcta Light Company Limited, The. (See Treglown, G. H., and Carter, assignors.)
Corrie, David A., assignor of one-half to J. J. Risch, Vincennes, Ind. Washing machine. 1,693,548; Nov. 27.
Cowles, Irving, assignor to Union Bank of Chicago, trustee, Chicago, Ill. Pump for lubricating systems. 1,693,068; Nov. 27.
Cracker Jack Co., The. (See Eckstein, Harry G., assignor.)
Cramer, Albert N., assignor to The Owens Bottle Company, Toledo, Ohio. Glass-forming machine. 1,693,069; Nov. 27.
Crane, Samuel G., assignor to F. H. Ohrmund, Pasadena, Calif. Electrical control for gas valves. 1,693,070; Nov. 27.
Cricchio, Paul, assignor to Majestic Lamp Works, New York, N. Y. Table lamp or article of analogous nature. Des. 76,987; Nov. 27.
Crilly, Roger, Elisabeth, N. J. Apparatus for dehydrating tar. 1,693,549; Nov. 27.
Crimmel, Alvie C., Hartford City, Ind. Vending stand. Des. 76,988; Nov. 27.
Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Control mechanism for wringers. 1,693,270; Nov. 27.

Croft, William H., and R. J. Shoemaker, Chicago, Ill., assignors to Magnus Company, Incorporated, New York, N. Y. Molding apparatus. 1,693,222; Nov. 27.
Crompton & Knowles Loom Works. (See Favor, H. S., and Pfeiffer, assignors.)
Crompton & Knowles Loom Works. (See Holmes, Elbridge R., assignor.)
Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)
Crompton & Knowles Loom Works. (See Olch, Jacob B., assignor.)
Crompton & Knowles Loom Works. (See Regan, John, assignor.)
Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)
Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)
Culligan, Joseph G., New York, N. Y. Game board. Des. 76,989; Nov. 27.
Cummings, Earle W., assignor of one-half to Santa Barbara Lumber Company, Santa Barabara, Calif. Foldable service board. 1,692,930; Nov. 27.
Curran, Jerome P., assignor to The American Bottle Company, Toledo, Ohio. Bottle. Des. 76,990; Nov. 27.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,692,819; Nov. 27.
Cutler-Hammer Mfg. Co., The. (See Nash, Clarence A., assignor.)
Daily, Roy L. (See Vale, Baldwin, assignor.)
Damerell, Mark H., assignor to Wyman-Gordon Company, Worcester, Mass. Loading and unloading attachment for tractors. 1,693,335; Nov. 27.
Dannell, Arthur G., assignor to Elektromatik Forging Machine Corporation, New York, N. Y. Electrical heating and forming means. 1,693,271; Nov. 27.
Danziger, Harold L., and C. L. Wachter, New York, N. Y. Sound reproducer. 1,693,223; Nov. 27.
Darmstadt, Peter, W. Stegmann, and V. Weil Fechenheim, near Frankfort-on-the-Main, assignors to the firm Drahtindustrie Peter Darmstadt & Co. G. m. b. H., Frankfort-on-the-Main, Germany. Multiple-wire-drawing machine for drawing fine wires from suitable material. 1,693,224; Nov. 27.
Darr, Earl A., et al., executors. (See Kraft, Henry P.)
Daudt, Herbert W. (See Calcott, W. S., and Daudt.)
Davies, David G., and F. T. Rundell, Morgantown, W. Va. Mechanical sheet and tin-plate catcher. 1,692,888; Nov. 27.
Davis, Augustine, jr. (See Shield, Paul S., assignor.)
Davis, Herbert L. (See Glidden, A. A., Ellis, and Davis.)
Davis, Marvin B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Pipe clamp. 1,693,478; Nov. 27.
Davis, Marvin B., Kansas City, Mo., assignor to G. Krell, Sapulpa, Okla. Apparatus for gripping pipes, rods, or the like. 1,693,502; Nov. 27.
Davis & Furber Machine Company. (See Rockwell, S. F., and Randall, assignors.)
Davis-Warner Arms Corporation, The. (See Murphy, John J., assignor.)
Deegan, James O., Toronto, Ontario, Canada, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Feeding device. 1,693,371; Nov. 27.
De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Sound-recording attachment for motion-picture cameras. 1,693,071; Nov. 27.
De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Shielding sound detector and amplifier apparatus. 1,693,072; Nov. 27.
De Forest Phonofilm Corporation. (See De Forest, Lee, assignor.)
Delavnl-Crow, Thomas C., assignor to The New Departure Manufacturing Company, Bristol, Conn. Making bearing separators. 1,693,550; Nov. 27.
Delco-Light Company. (See Warner, Clarence, assignor.)
Delta-Star Electric Company, The. (See Van Ryan, T., and Alsaker, assignors.)
Denman, Rene E., Kansas City, Mo. Flower holder. 1,693,372; Nov. 27.
Dennis, Olive W., Baltimore, Md. Ventilator. 1,693,108; Nov. 27.
Dentists' Supply Company, The. (See Clapp, G. W., Tench, and Dunham, assignors.)
Detroit Broach Corporation. (See De Voe, W., and Ward, assignors.)
Devenere, Anthony J., Trenton, N. J. Window-cleaning device. 1,693,336; Nov. 27.
Devick, Joseph C., Helena, Mont., assignor to American Smelting and Refining Company, New York, N. Y. Muffle for sintering machines. 1,692,976; Nov. 27.
De Voe, William, Worcester, Mass., and J. J. Ward, assignors to Detroit Broach Corporation, Detroit, Mich. Broach with adjustable broaching members. 1,692,977; Nov. 27.
Diamond State Fibre Company. (See Behning, Edward F., assignor.)
Diebold Safe & Lock Company, The. (See Paca, John P., assignor.)
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 76,991; Nov. 27.
Diehl, Immanuel H., Milwaukee, Wis. Knockdown boat. 1,693,175; Nov. 27.
Dietsche, Oscar A., Los Angeles, Calif. Change-speed mechanism. 1,693,139; Nov. 27.
Dietze, Carl H., jr., Newark, N. J. Rattle. 1,693,140; Nov. 27.
Diits Machine Works Incorporated. (See Haskell, J. D., and Rust, assignors.)
Ding's Magnetic Separator Company. (See Hope, James L., assignor.)
Dinspel, William H., assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Carrier for pneumatic-dispatch systems. 1,692,820; Nov. 27.
Dixon, Joseph, Crucible Company. (See Mix, Frederick H., assignor.)
Dobson, Percy R., assignor to Bell Equipment Company Limited, Calgary, Alberta, Canada. Door-operating mechanism. 1,692,821; Nov. 27.
Doehler Die-Casting Company. (See Stern, Marc, assignor.)
Donath, Otto A., assignor to O. D. Collis, Clinton, Iowa. Explosion motor. 1,693,073; Nov. 27.
Donner, Julius. (See Malonyay, Joseph, assignor.)
Douglas, Harry A. (See Watts, Felix J., assignor.)
Dow, John G., San Francisco, Calif., assignor of one-half to T. P. Galvin and one-third to J. C. Burdick. Apparatus for separating eggs. 1,692,931; Nov. 27.
Drahtindustrie Peter Darmstadt & Co. G. m. b. H. (See Darmstadt, P., Stegmann, and Weil, assignors.)
Drange, Carl E., assignor to I. and D. J. Scott, executors of the estate of W. Scott, deceased, doing business under the name of Walter Scott & Company, Plainfield, N. J. Web-replenishing mechanism. 1,693,436; Nov. 27.
Drummond, Gerald, Worcester, England. Double-acting two-stroke-cycle internal-combustion engine. 1,693,024; Nov. 27.
Ducat, Harry H., Los Angeles, Calif. Hosiery. 1,693,141; Nov. 27.
Duff, James W. (See Lambert, George E., assignor.)
Dunham, C. A., Company. (See Dunham, Clayton A., assignor.)
Dunham, Clayton A., Glencoe, Ill., assignor, by mesne assignments, to C. A. Dunham Company, Marshalltown, Iowa. Temperature indicator. 1,693,225; Nov. 27.
Dunham, John R., Highland Park, assignor to John Waldron Corporation, New Brunswick, N. J. Flexible coupling. 1,692,978; Nov. 27.
Dunham, Lawrence W. (See Clapp, G. W., Tench, and Dunham.)
Dunlop Rubber Company, The. (See Penfold, Albert E., assignor.)
Dupont, Andrew T., Washington, D. C. Pneumatic tool. 1,692,889; Nov. 27.
Du Pont, E. I., de Nemours & Company. (See Calcutt, W. S., and Daudt, assignors.)
Durkin, William H. (See Kemper, A. H., and Durkin.)
Dürr, Karl, Pforzheim, Germany. Automatic manufacturing of bead chains. 1,693,558; Nov. 27.
Duryea, O. C., Corporation. (See Duryea, Otho C., assignor.)
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,693,193; Nov. 27.
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,693,194; Nov. 27.
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,693,195; Nov. 27.
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Car construction. 1,693,196; Nov. 27.
Duryea, Otho C., Waterbury, Conn., assignor to O. C. Duryea Corporation, Wilmington, Del. Brake mechanism for railway cars. 1,693,197; Nov. 27.
Dworack, Charles W., Dayton, Ohio. Tail skid for airplanes. 1,693,503; Nov. 27.
Dyresen, Didrick, Malden, Mass. Separable fastener. 1,693,142; Nov. 27.
Dyresen, Didrick, Malden, Mass. Separable fastener. 1,693,143; Nov. 27.
Dyrr, Jacob V., assignor to Dyrr Mfg. Co., Bell, Calif. Furrower overshoe. 1,693,226; Nov. 27.
Dyrr Mfg. Co. (See Dyrr, Jacob V., assignor.)
Eagle Lites, Inc. (See Altbach, George H., assignor.)
Eagle Lites, Inc. (See Grossman, Julius, assignor.)
Easthope, Arthur, Coventry, England, assignor to General Electric Company. Telephone head set. 1,693,337; Nov. 27.
Eckstein, Henry G., assignor to The Cracker Jack Co., Chicago, Ill. Manufacture of moistureproof paper packages. 1,692,822; Nov. 27.
Eclipse Machine Company. (See McGrath, William L., assignor.)
Economy Fuse & Manufacturing Co. (See Gordon, David D., assignor.)
Economy Fuse and Manufacturing Company. (See Gordon, D. D., and Lindsay, assignors.)
Edenharder, Eugene E. and J. E., assignors of one-third to H. Edenharder, West Allis, Wis. Device for delivering mail bags from railway cars. 1,692,979; Nov. 27.
Edenharder, Helen. (See Edenharder, Eugene E. and J. E., assignors.)
Edenharder, Jacob E. (See Edenharder, Eugene E. and J. E.)
Edgar, Harry A., Luverne, Minn. Air cleaner. 1,693,479; Nov. 27.
Edmiston, Hugh C. (See Goddard, John V., assignor.)
Elcolite Corporation. (See Von Nessen, Walter, assignor.)



Eldredge, Elmer E., Wilmette, assignor to Kraft-Phenix Cheese Company, Chicago, Ill. Preservation of cheese. 1,693,025; Nov. 27.
Eldredge, Elmer E., Wilmette, assignor to Kraft Phenix Cheese Company, Chicago, Ill. Preservation of dairy products. 1,693,026; Nov. 27.
Electrolux Servel Corporation. (See Munters, Carl G., assignor.)
Electropure Corporation. (See Templeton, John O., assignor.)
Elektrizitätswerk Lonza. (See Lüscher, E., and Steiger, assignors.)
Elektromatik Forging Machine Corporation. (See Dannell, Arthur G., assignor.)
Ellis, Howard G. (See Glidden, A. A., Ellis, and Davis.)
Ellis, John R., Memphis, Tenn. Brick-course gauge. 1,693,227; Nov. 27.
Elsas, Louis J., and E. M. Jones, Atlanta, Ga.; said Jones assignor to said Elsas. Automatic control for sheet-material-handling machinery. 1,693,272; Nov. 27.
Ely, Alonzo B., Groton, assignor, by mesne assignments, to L. C. Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,692,890; Nov. 27.
Engineering Products Corporation, Inc. (See Boyle, W. E., and Searing, assignors.)
Enterprise Manufacturing Company, The. (See Pfueger, Charles T., assignor.)
Erickson, John, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic switch. 1,693,027; Nov. 27.
Ernst, Walter, assignor to Hydraulic Press Manufacturing Company, Mount Gilead, Ohio. Semiautomatic valve. 1,693,109; Nov. 27.
Essex Rubber Company. (See Oakley, Laurence M., assignor.)
Estabrooke, William L. (See Babor, J. A., and Estabrooke.)
Etling, Rodolf, Barcelona, Spain. Ear-cleaning implement. 1,693,581; Nov. 27.
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Voices Incorporated. Talking toy mechanism. 1,693,228; Nov. 27.
Evans, Robert D. (See Copley, A. W., and Evans.)
Everist, Hubert, Sioux City, Iowa. Machine for distributing concrete. 1,693,198; Nov. 27.
Fageol, Rollie B., Los Angeles, Calif. Road vehicle. 1,692,891; Nov. 27.
Fahrni, Jacob, Zurich, Switzerland. Refrigerating apparatus. 1,693,373; Nov. 27.
Failing, Otto C. (See Mason, A. R., and Failing.)
Fair, Robert, Philadelphia, Pa. Shade holder for shipping boxes. 1,693,199; Nov. 27.
Faistenhammer, Max, Binghamton, N. Y. Paper-bag handle. 1,693,110; Nov. 27.
Falco, Michael, Canonsburg, Pa. Lifting device. 1,693,074; Nov. 27.
Fallot, Alfred, deceased, Plauen, Germany; H. Priester, executor. Rotary printing machine. 1,693,504; Nov. 27.
Farmer, Gordon C., Blacksburg, Va. Motor-driven rotary toothbrush. 1,692,980; Nov. 27.
Farnham, Sidney W., assignor to Goodman Manufacturing Company, Chicago, Ill. Apparatus for handling loose material. 1,692,823; Nov. 27.
Favor, Henry S., and G. J. Pfeiffer, Providence, R. I., assignors to Crompton & Knowles Loom Works, Worcester, Mass. Box indicator for Jacquard looms. 1,692,981; Nov. 27.
Fawcett, Alvin A., San Francisco, assignor of one-fourth to H. S. Bradshaw, Piedmont, and one-fourth to C. A. Bradshaw and one-fourth to W. J. Swart, Oakland, Calif. Floor-nailing machine. 1,693,290; Nov. 27.
Fawcett, Walter W., Shaker Heights, assignor to Fuller & Smith, Cleveland, Ohio. Carton or similar article. Des. 76,992; Nov. 27.
Feeney, William P., Cheboygan, Mich. Vacuum seal. 1,693,374; Nov. 27.
Fegley, Thomas J., and G. O. Leopold, assignors to North Bro's Mf'g Co., Philadelphia, Pa. Valve grinder. 1,693,437; Nov. 27.
Feinstein, Max. (See Miller, C., and Feinstein.)
Feimar, Victor, Taylorville, Ill. Toothbrush. 1,693,229; Nov. 27.
Ferguson, Elmer W., assignor to Connecticut Chiropractors' Association, New Haven, Conn. Automobile radiator emblem. Des. 76,993; Nov. 27.
Ferrero, René, Geneva, Switzerland. Dirigible headlight. 1,693,375; Nov. 27.
Fien, Alphonsus, assignor to S. H. Pomeroy Company, Inc., New York, N. Y. Metal window. 1,692,982; Nov. 27.
Firestone Tire and Rubber Company, The. (See Hale, James E., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Fischer, Frank F., Oklahoma City, Okla. Memorial grave marker. Des. 76,994; Nov. 27.
Fisher, John T., Tarentum, Pa. Carrying device for goggles. 1,693,505; Nov. 27.
Fisk Rubber Company, The. (See Southmayd, Leon N., assignor.)
Fisk Rubber Company, The. (See Wikle, George F., assignor.)
Fitzgerald, Horace H. (See Van Veen, A., and Fitzgerald.)
Flint, Percy W., North Charleston, S. C. Refrigerator. 1,693,200; Nov. 27.
Flood, Daniel J. (See Snow, C. R., and Flood.)
Floyd, William J., Syracuse, N. Y. Combined reflector and shade. 1,692,892; Nov. 27.
Folger, Henry C., Waltham, assignor, by mesne assignments, to Waltham System, Inc., Waverly, Mass. Refrigerating cabinet. 1,693,376; Nov. 27.
Folger, Henry C., Waltham, assignor, by mesne assignments, to Waltham System, Inc., Waverly, Mass. Refrigeration apparatus. 1,693,377; Nov. 27.
Fonda Container Co. (See Toscano, Louis P., assignor.)
Ford, Henry, Dearborn, Mich. Rear-axle-housing construction. 1,692,932; Nov. 27.
Ford Motor Company. (See Brown, Edward T., assignor.)
Foresman, Robert A., Moores, Pa., assignor to Westinghouse Electric & Manufacturing Company. Air-cooled furnace wall. 1,693,378; Nov. 27.
Forest, Rene. (See Lavergne, Jean, assignor.)
Fornaca, Guido, Turin, Italy. Wheel-suspension means for motor vehicles. 1,693,111; Nov. 27.
Forsberg, Albin L., Chicago, Ill., assignor to The Thomson & Taylor Co. Container and manufacture thereof. 1,693,201; Nov. 27.
Foster, Harry A., Bradenton, Fla. Sterilizing apparatus. 1,692,983; Nov. 27.
Foster Wheeler Corporation. (See Primrose, John, assignor.)
Fox Machine Company. (See Riddell, Austin A., assignor.)
Franklin Simon & Company. (See Carney, Elizabeth, assignor.)
Franklin Simon & Company. (See Schmoize, Mildred C., assignor.)
Franklin Simon & Company. (See Siegel, Maude, assignor.)
Fraser, James, Edge Moor, assignor to The Spekaman Company, Wilmington, Del. Combined valve stem, handle, and escutcheon. Des. 76,995; Nov. 27.
Fraser, James, Edge Moor, assignor to The Speakman Company, Wilmington, Del. Nozzle. Des. 76,996; Nov. 27.
Frauenberger, William, Los Angeles, Calif. Tuning hammer. 1,693,292; Nov. 27.
French, Edward H., Columbus, Ohio. Recovering resinous by-products in the manufacture of wood pulp. 1,693,586; Nov. 27.
Friedrich, Robert, Philadelphia, Pa. Hosiery. Des. 76,997; Nov. 27.
Frier, James H., jr., Webster Groves, Mo. Indicating attachment for speedometers. 1,693,075; Nov. 27.
Fukagawa, Kijiro, Saga, assignor to Maruichi-Goshikaisha, Tokyo, Japan. Ferroreenforced concrete sleeper. 1,692,933; Nov. 27.
Fuller Brush Company, The. (See Van Veen, A., and Fitzgerald, assignors.)
Fuller & Smith. (See Fawcett, Walter W., assignor.)
Furness, William H., National Park, N. J., assignor to Cellocilk Company, Philadelphia, Pa. Filter or strainer and making the same. 1,692,824; Nov. 27.
Gage, Edward E., New York, N. Y. Door-securing mechanism. 1,693,028; Nov. 27.
Gallison, Ernest A., Watertown, assignor to Bay State Fishing Company, Boston, Mass. Fish-scaling machine. 1,692,984; Nov. 27.
Gallison, Ernest A., Watertown, assignor to Bay State Fishing Company, Boston, Mass. Machine for scaling fish. 1,692,985; Nov. 27.
Galvin, Thomas P., et al. (See Dow, John G., assignor.)
Gano, Harlan S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal relay. 1,693,379; Nov. 27.
Ganz, William, Chicago, Ill. Lock. 1,692,825; Nov. 27.
Ganz, William, Chicago, Ill. Lock. 1,692,826; Nov. 27.
Gardner-Denver Company, The. (See Katterjohn, August H., assignor.)
Garilus, Bernt. (See Knott, F. W., and Garilus.)
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 1,692,934; Nov. 27.
Gebhart Folding Box Company, The. (See Gebhart, Louis H., assignor.)
Gebhart, Louis H., assignor to The Gebhart Folding Box Company, Dayton, Ohio. Box blank or similar article. Des. 76,998; Nov. 27.
Gehrlein, Vincent, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 1,692,827; Nov. 27.
Geissler, Franz, Dusseldorf-Oberkassel, Germany. Casting apparatus for first-quality and refined steels. 1,693,076; Nov. 27.
General Chemical Company. (See Benjamin, Charles S., assignor.)
General Electric Company. (See Abrahams, Samuel L., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Easthope, Arthur, assignor.)
General Electric Company. (See Gittings, William N., assignor.)
General Electric Company. (See Hull, John I., assignor.)
General Electric Company. (See Hutt, J., and Bird, assignors.)
General Electric Company. (See Jones, William H., assignor.)
General Electric Company. (See Mackintosh, Frederick, assignor.)

General Electric Company. (See McDonald, Gordon R., assignor.)
General Electric Company. (See Murphy, Edwin J., assignor.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Rice, Chester S., assignor.)
General Electric Company. (See Simmons, Harvey O., assignor.)
General Electric Company. (See Stanton, Myles J., assignor.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See Traver, Oliver C., assignor.)
General Optical Co. (See Clement, H., and Ryer, assignors.)
Gilchrest, George I., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,693,380; Nov. 27.
Gilchrest, George I., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator. 1,693,381; Nov. 27.
Gingras, Dale M., et al. (See Guterres, Carlos A., assignor.)
Girling, Sidney S., Saanich, British Columbia, Canada. Road-oil-spraying nozzle. 1,693,230; Nov. 27.
Gittings, William N., Springfield, Pa., assignor to General Electric Company. Control system. 1,693,293; Nov. 27.
Glidden, Alfred A., Watertown, H. G. Ellis, Waltham, and H. L. Davis, Walpole, assignors to Hood Rubber Company, Watertown, Mass. Mold for rubber boots. 1,692,828; Nov. 27.
Goddard, John V., Trentham, England, assignor to H. C. Edmiston, New York, N. Y. Covered dish. Des. 76,999; Nov. 27.
Goetze, Albin F., assignor to Morgan Knitting Mills, Inc., Newark, N. J. Stitch and forming the same. 1,693,439; Nov. 27.
Goldstein, Aaron A., Buffalo, N. Y. Coupling device. 1,693,077; Nov. 27.
Gonyk, Ignatz, Ljubljana, Kingdom of the Serbs, Croats and Slovenes. Distributing device for solid soap. 1,693,480; Nov. 27.
González, Joaquin M., Oriente, Cuba. Injector. 1,693,201; Nov. 27.
GoodActive, Nils E., New York N. Y. Cone belt shifter. 1,692,829; Nov. 27.
Goodell, Alfred, Rockford, Ill. Sanitary wall tile. 1,693,438; Nov. 27.
Goodman Manufacturing Company. (See Farnham, Sidney W., assignor.)
Goodman Manufacturing Company. (See Poole, Clarence F., assignor.)
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Bauman, Harry A., assignor.)
Goodrich, B. F., Company, The. (See Waner, Harry E., assignor.)
Gordon, David D., assignor to Economy Fuse & Manufacturing Co., Chicago, Ill. Switch mounting. 1,693,382; Nov. 27.
Gordon, David D., and W. Lindsay, assignor to Economy Fuse and Manufacturing Company, Chicago, Ill. Candle-socket mounting. 1,693,383; Nov. 27.
Goss Printing Press Company. (See Brueshaber, Martin W., assignor.)
Gosselin, Marcel. (See Loyer, F., and Gosselin.)
Gould, Roy F., Chicago, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Cord circuit. 1,693,029; Nov. 27.
Graser, Frank X., Lindenhurst, N. Y. Window construction. 1,693,551; Nov. 27.
Grasselli Chemical Company, The. (See Buse, Otto H., assignor.)
Grasselli Dyestuff Corporation. (See Kränzlein, G., Zahn, Ochwat, and Corell, assignors.)
Grasselli Dyestuff Corporation. (See Krzikalla, H., and Müller, assignors.)
Grasselli Dyestuff Corporation. (See Onnertz, P., and Schwärzel, assignors.)
Greenberg, Geza, New York, N. Y. Garment support. 1,693,030; Nov. 27.
Groff, Frazier, Verona, N. J., assignor to Bakelite Corporation, New York, N. Y. Phenol resin and making same. 1,693,112; Nov. 27.
Grossman, Julius, New York, N. Y., assignor to Eagle Lites, Inc. Lighting-fixture backplate or analogous article. Des. 77,000; Nov. 27.
Gruber, William R., New York, N. Y. Sanitary dispensing container for dining tableware. 1,693,231; Nov. 27.
Guaranteed Water Engineering Corporation. (See Sanford, Jesse H., jr., assignor.)
Guenther, Elsa D. T. (See Benedetti, Louis, assignor.)
Gulbenkian Seamless Rug Company. (See Smith, William E., assignor.)
Gurney, Erving R., Beechhurst, assignor to International Motor Company, New York, N. Y. Yielding connection for relatively movable members. Re17,146; Nov. 27.
Guterres, Carlos A., Santa Monica, assignor of one-third to E. F. Iverson, Los Angeles, and one-third to D. M. Gingras, Santa Monica, Calif. Electric motor. 1,693,294; Nov. 27.
Guth, Edwin F., St. Louis, Mo. Screwless holder for lighting fixtures. 1,693,232; Nov. 27.
Gutzat, Gustav C., Jersey City, N. J. Trolley construction. 1,692,893; Nov. 27.
Hague, Frank H. (See Young, William B., assignor.)
Halcolite Company. (See Lipsky, Norman, assignor.)
Hale, James E., Summit County, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Car wheel. 1,693,576; Nov. 27.
Hall, Leo W., Perkins Township, Erie County, Ohio. Device for taking up looseness in bearings. 1,693,559; Nov. 27.
Hamilton, Ashton. (See Howard, Albert L., assignor.)
Hampel, Carl, Jackson, Mich. Animal-feeding device. 1,693,113; Nov. 27.
Hanbidge, Charles W. W. (See Rankin, Ernest L., assignor.)
Hanes, Laura A., Tiffin, Ohio, and V. D. Hanes, Jackson, Mich. Folding hem adjuster. 1,693,176; Nov. 27.
Hanes, Verne D. (See Hanes, Laura A. and V. D.)
Hankison, Lewis E., Pittsburgh, and W. M. Stephens, Cheswick, Pa.; said Stephens assignor to said Hankison. Pressure regulator. 1,693,278; Nov. 27.
Hannaford, Cleon M., assignor to Car Devices Company, Richmond, Va. Combined striking casting and front draft lug. 1,693,295; Nov. 27.
Hansen, Arnold A. (See Shackleton, S. P., and Hansen.)
Hansen, Carl, Esbjerg, and P. Leth, Copenhagen, Denmark; said Leth assignor to said Hansen. Combined seine net and bottom dragnet with trapping wings. 1,692,830; Nov. 27.
Hanshe, Irving, Brooklyn, N. Y. Box-covering machine. 1,692,831; Nov. 27.
Hardy, Elbert C., Ludington, Mich., and P. J. Morales, Chicago, Ill., assignors to Arkell Safety Bag Company, New York, N. Y. Lining tubular containers. 1,692,986; Nov. 27.
Harper, Samuel A., Jonesboro, La. Bar door lock. 1,693,481; Nov. 27.
Harpstrite, Augustus J., Los Angeles, Calif. Airship. Des. 77,001; Nov. 27.
Hart, Alfred V., Westfield, N. J., and J. T. Hart, Rockville Center, N. Y. Brush. 1,693,334; Nov. 27.
Hart, Joseph T. (See Hart, Alfred V. and J. T.)
Hart, William F., assignor to Verona Tool Works, Pittsburgh, Pa. Rail bond and making the same. 1,692,895; Nov. 27.
Harter, Noah S. (See Adkins, F. A., and Harter.)
Hartford-Empire Company. (See Mulholland, Vergil, assignor.)
Hartford-Empire Company. (See Peiler, Karl E., assignor.)
Hartman, Robert R., Perry, Okla. Bird-house road marker. Des. 77,002; Nov. 27.
Harrington, Silvin G., Metz, Mo. Escape device for sunken submarines. 1,692,894; Nov. 27.
Harrison, William H., Paterson, assignor to Portable Machinery Company Inc., Clifton, N. J. Conveyer-belt guide. 1,692,832; Nov. 27.
Haskell, John D., and M. R. Rust, assignors to Dilts Machine Works Incorporated, Fulton, N. Y. Paper-stock strainer. 1,693,560; Nov. 27.
Hastings, Herbert, Brighton, N. Y. Fluid indicator. 1,693,031; Nov. 27.
Hawley, Kent A., assignor to Locke Insulator Corporation, Baltimore, Md. Anchor clamp. 1,693,440; Nov. 27.
Hayman, Eber J., Parkersburg, W. Va. Metallic-roof joint. 1,693,274; Nov. 27.
Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Fuel-supply system. 1,693,114; Nov. 27.
Heany Laboratories, Inc. (See Heany, John A., assignor.)
Heddon, Charles, assignor to James Heddon's Sons, Dowagiac, Mich. Artificial bait. 1,692,935; Nov. 27.
Heddon's, James, Sons. (See Heddon, Charles, assignor.)
Hegan, Chester P. (See Reed, W. M., and Hegan.)
Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Roll-grinding apparatus. 1,692,833; Nov. 27.
Heim, Lewis R., Danbury, Conn., assignor, by mesne assignments, to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Art and apparatus for producing ground articles. 1,692,834; Nov. 27.
Helmond, William F., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,144; Nov. 27.
Hemmingsen, Torkild V., Copenhagen, Denmark. Two-stroke internal-combustion motor with scavenging and expulsion through ports in the cylinder. 1,693,506; Nov. 27.
Henderson, Cecil H., North Melbourne, Victoria, Australia. Combined bumper bar and carrier for motor vehicles. 1,693,202; Nov. 27.
Henderson, Fred, Bisbee, Ariz. Elevator support. 1,693,552; Nov. 27.
Hendryx, Andrew B., Company, The. (See Hendryx, Nathan W., assignor.)





Hendryx, Nathan W., assignor to The Andrew B. Hendryx Company, New Haven, Conn. Bird cage. 1,692,835; Nov. 27.
Hendry, William F., Ossining, N. Y., assignor to Manhattan Electrical Supply Company, Inc. Adjustable socket for luminescent-tube signs. 1,693,145; Nov. 27.
Henggi, Edward J., O'Hara Township, Allegheny County, Pa. Combined tie plate and rail anchor. 1,693,275; Nov. 27.
Henglein, Friedrich A., Cologne-Deutz, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of iodates. 1,693,441; Nov. 27.
Henritzy, George S., Hazleton, Pa. Window ventilator. 1,693,442; Nov. 27.
Henry, Guy J., Chicago, Ill. Floating-valve seat. 1,693,032; Nov. 27.
Henry, Patrick, Bradford, England. Dabbing brush for wool-combing machines. 1,692,836; Nov. 27.
Henry, Raymond, Rock Island, Ill., assignor, by mesne assignments, to O.-N. Spring shackle Company, Davenport, Iowa. Offiess spring shackle. 1,692,837; Nov. 27.
Heusler, Friedrich, Dillenburg, Germany. Copper alloy. 1,692,936; Nov. 27.
Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
Higgins, Harry A., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,693,233; Nov. 27.
Higgins, Harry A., Detroit, Mich. Radiator. 1,693,234; Nov. 27.
Hilgert, Mathew, New York, N. Y. Orthopedic shoe. 1,692,896; Nov. 27.
Hill, Fred E., assignor to Quality Manufacturing Company, Inc., Woburn, Mass. Mop. 1,692,987; Nov. 27.
Hinder, Percival G. H., London, England. Foot support. 1,693,482; Nov. 27.
Hitchings & Company. (See King, Thomas E., assignor.)
Hochstetter, Frederick W. (See Hochstetter, F. W., and Broad, assignors.)
Hochstetter, Frederick W., Pittsburgh, and W. Broad, Mars, Pa., assignors, by mesne assignments, to said Hochstetter. Battery. 1,693,385; Nov. 27.
Hodgart, John H., and A. W. Brydon, Toronto, Ontario, Canada. Valve. 1,693,177; Nov. 27.
Hodgson, Herbert D. (See Miller, R. M., and Hodgson.)
Hollingworth, Reginald A., Beeston, England, assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 77,003; Nov. 27.
Hollingworth, Reginald A., Beeston, England, assignor to American Textile Company, Inc., Pawtucket, R. I. Lace. Des. 77,004; Nov. 27.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Box-controlling mechanism for Jacquard looms. 1,692,988; Nov. 27.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Chain element for pattern mechanism. 1,692,989; Nov. 27.
Holmes, Elbridge R., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Harness-leveling mechanism for looms. 1,692,990; Nov. 27.
Holt, Donald, Chicago, Ill. Lighting fixture and the like. 1,693,443; Nov. 27.
Honschopp, Alfred B., Cincinnati, Ohio. Toilet-paper holder. 1,693,338; Nov. 27.
Hood Rubber Company. (See Glidden, A. A., Ellis, and Davis, assignors.)
Hope, James L., assignor to Ding's Magnetic Separator Company, Milwaukee, Wis. Process of and apparatus for separating substances. 1,693,033; Nov. 27.
Hopkins, Jesse, Denver, Colo. Automobile friction brake. 1,693,444; Nov. 27.
Hornung, Anton N., Los Angeles, Calif. Refrigerator. 1,693,078; Nov. 27.
Hothersall, John M. (See Walter, G. F., and Hothersall.)
Howard, Albert L., Braintree, assignor to A. Hamilton, Brockton, Mass. Bow necktie. 1,692,991; Nov. 27.
Howard, Lee E. and M. E., Los Angeles, Calif. Nonbreakable dressed doll. 1,692,897; Nov. 27.
Howard, Marguerite E. (See Howard, Lee E. and M. E.)
Hudson Motor Car Company. (See Rumely, Vincent P., assignor.)
Hull, John L., Schenectady, N. Y., assignor to General Electric Company. Speed-control and frequency-converter set. 1,693,296; Nov. 27.
Hull, William J., Dublin, Ind. Stovepipe ventilator. 1,693,507; Nov. 27.
Hulshizer, George W., Stewartsville, assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. 1,692,937; Nov. 27.
Hume, Fred, assignor to International Shoe Company, St. Louis, Mo. Machine for use in the manufacture of shoes. 1,693,276; Nov. 27.
Hummerich, Elton E., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Feet for sanding machines. 1,692,898; Nov. 27.
Humphrey, Herbert S., Kalamazoo, Mich. Power lawn mower. 1,692,838; Nov. 27.
Humphrey, Herbert S., Kalamazoo, Mich., assignor to Ruud Manufacturing Company, Pittsburgh, Pa. Water heater. 1,692,839; Nov. 27.
Huetwick, Alfred, Los Angeles, Calif. Football game. 1,693,277; Nov. 27.
Hutt, Joseph, and G. H. Bird, Coventry, England, assignors to General Electric Company. Acoustic device. 1,693,297; Nov. 27.
Hydraulic Press Manufacturing Company. (See Ernst, Walter, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Henglein, Friedrick A., assignor.)
Ileman, Emil A., assignor, by mesne assignments, to Consolidated Ashcroft Hancock Company, Inc., New York, N. Y. Mounting pressure-gauge diaphragms. 1,693,235; Nov. 27.
Illinois Watch Case Company. (See Irelan, Ellison S., assignor.)
Indiana Glass Company, The. (See Clark, Jeddia B., assignor.)
Individualizing Company of Illinois. (See Kier, William E., assignor.)
Industries of America, Inc. (See Robinson, Harry G., assignor.)
Ingersoll-Rand Company. (See Hulshizer, George W., assignor.)
Ingham, Emanuel, Washington, D. C. Radio mast holder. 1,693,298; Nov. 27.
International Motor Company. (See Gurney, Erving R., assignor.)
International Patents Development Company. (See Newkirk, William B., assignor.)
International Shoe Company. (See Hume, Fred, assignor.)
International Wood Products Co. (See Leash, Homer E., assignor.)
Interstate Folding Box Company, The. (See Bergstein, Samuel, assignor.)
Irelan, Ellison S., assignor to Illinois Watch Case Company, Elgin, Ill. Watchcase. Des. 77,005; Nov. 27.
Irvine, Clover G. (See Vierling, Frank J., assignor.)
Irvine, Clover G. (See Vierling, F. J., and Irvine.)
Iverson, Christean, Inc. (See Riederer, H. S., and Paulson, assignors.)
Iverson, Ernest F., et al. (See Guterres, Carlos A., assignor.)
Jackson, Arthur C., Philadelphia, Pa., and W. Kroll, San Francisco, Calif., assignors to The Yale & Towne Manufacturing Company, Stamford, Conn. Padlock. 1,693,511; Nov. 27.
Jackson, Ernest W., San Rafael, assignor to Perfecto Gear Differential Co., Oakland, Calif. Speed-change transmission gearing. 1,693,079; Nov. 27.
Jacobs, Joseph, New York, N. Y. Toy nursing bottle. 1,692,938; Nov. 27.
Jacobus, David S., Jersey City, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Tube-cleaning device. 1,693,115; Nov. 27.
Jaffe, Samuel, Memphis, Tenn. Dining chair. 1,693,512; Nov. 27.
Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper clamp. 1,693,513; Nov. 27.
Jaworski, Paul, Wielkie-Hajduki, Poland, assignor to the firm Bismarckhutte, Bismarckhutte/Polnisch Oberschlesien. Gas producer. 1,693,483; Nov. 27.
Jenkins, Charles F., Washington, D. C. Picture transmission. 1,693,508; Nov. 27.
Jenkins, Charles F., Washington, D. C. Resistor cell circuit. 1,693,509; Nov. 27.
Jennings, Victor H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector to stop loom. 1,692,992; Nov. 27.
Jensen, Ange, Los Angeles, Calif. Pasteurizing liquids. 1,693,034; Nov. 27.
Jensen, Louis, assignor to United Autographic Register Company, Chicago, Ill. Registering paper webs. 1,693,035; Nov. 27.
Jessen, Arnold H., Los Angeles, Calif. Automatic gear shift. 1,693,080; Nov. 27.
Ježek, Rudolf. (See Richter, J., and Ježek.)
Johns, Thomas H., Etowah, Tenn. Road sign. Des. 77,006; Nov. 27.
Johnson, Gustav, Dorchester, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. 1,693,514; Nov. 27.
Johnson, Hiram M., Toppenish, Wash. Rotary valve. 1,693,484; Nov. 27.
Johnson, Lane, Ingram, assignor to United Engineering and Foundry Company, Pittsburgh, Pa. Three-high rolling mill. 1,693,386; Nov. 27.
Johnson, Oscar W., assignor to Ward-Love Pump Corporation, Rockford, Ill. Water softener. 1,692,939; Nov. 27.
Jones, Elmer M. (See Elsas, L. J., and Jones.)
Jones, Fred H., Chicago, Ill. Folding storage filing case. 1,692,940; Nov. 27.
Jones & Laughlin Steel Corporation. (See Rendleman, Norman C., assignor.)
Jones, William H., Schenectady, N. Y., assignor to General Electric Company. Clinical thermometer. 1,693,299; Nov. 27.
Jones, Winslow, Seattle, Wash. Cutter head. 1,693,445; Nov. 27.
Joyner, Marjorie S., Chicago, Ill., assignor to The Madame C. J. Walker Manufacturing Company, Indianapolis, Ind. Permanent-waving machine. 1,693,515; Nov. 27.
Juneau, Anna K., administratrix. (See Juneau, C. G., and Marshall.)
Juneau, Charles G., deceased, by A. K. Juneau, administratrix, Wauwatosa, and W. C. Marshall, Milwaukee, Wis. Refrigerator. 1,693,387; Nov. 27.

Junghans, Oskar, deceased, Schramberg, by S. Junghans, administrator, Villingen, Baden, Germany. Mechanical time fuse. 1,693,516; Nov. 27.
Junghans, Siegfried, administrator. (See Junghans, Oskar.)
Just, Emil, Bronx, N. Y. Internal-combustion engine. 1,692,840; Nov. 27.
Kalbfleisch Corporation of New York, The. (See Pick, Paul, assignor.)
Kanné, Alexander R., Brooklyn, N. Y. Supporting pedestal for lamps. Des. 77,007; Nov. 27.
Kanné, Alexander R., Brooklyn, N. Y. Cluster lamp. Des. 77,008; Nov. 27.
Kass, Samuel M., Philadelphia, Pa. Divided pipe clamp. 1,693,081; Nov. 27.
Katterjohn, August H., Denver, Colo., assignor, by mesne assignments, to The Gardner-Denver Company, Quincy, Ill. Lubricator for rock drills. 1,693,203; Nov. 27.
Kattermann, August, Paterson, N. J. Warp-beam-shifting means. 1,693,517; Nov. 27.
Kauch, Robert. (See Paulus, C. L., and Kauch.)
Kauch, Robert, and C. L. Paulus, Dayton, Ohio. Ground-speed indicator. 1,693,510; Nov. 27.
Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Heddle frame. 1,693,236; Nov. 27.
Kearney, Edward J., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine-tool organization. 1,693,446; Nov. 27.
Kearney & Trecker Corporation. (See Kearney, Edward J., assignor.)
Keeler, George T., New York, N. Y. Liquid holder. 1,693,146; Nov. 27.
Kee Lox Manufacturing Company. (See Pembroke, Winfield P., assignor.)
Keller, Gottlieb, Brugg, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Heat-treatment apparatus. 1,693,388; Nov. 27.
Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)
Kemper, Albert H., and W. H. Durkin, Dayton, Ohio. Boiler grate and the like. 1,693,330; Nov. 27.
Kennedy, Benjamin H. (See Kennedy, Dewey M. and B. H.)
Kennedy, Benjamin H., and D. M., Rochester, N. Y. Bathing appliance. 1,693,390; Nov. 27.
Kennedy, Benjamin H. and D. M., Rochester, N. Y. Infant's bathing apparatus. 1,693,391; Nov. 27.
Kennedy, Dewey M. (See Kennedy, Benjamin H. and D. M.)
Kennedy, Dewey M. and B. H., Rochester, N. Y. Infant's bathtub. 1,693,389; Nov. 27.
Kenova Box Company, The. (See Wood, Stanley O., assignor.)
Kerber, Frank J., Chicago, Ill. Bumperette. 1,692,941; Nov. 27.
Kersten, Jacob, Allegan, Mich. Sound amplifier. 1,692,841; Nov. 27.
Kessler, John H., Nyack, N. Y. Parachute. 1,693,518; Nov. 27.
Kestenman Bros. Mfg. Co. (See Kestenman, Charles H., assignor.)
Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Expansible band or bracelet. 1,693,278; Nov. 27.
Ketelsen, Peter, Denver, Colo. Harvesting machine. 1,692,899; Nov. 27.
Kier, William E., assignor to Individualizing Company of Illinois, Chicago, Ill. Type-casting mold. 1,693,036; Nov. 27.
Kikuta, Tario, assignor to Tobata Imono Kabushiki Kaisha, Tobata City, Kukuoka Ken, Japan. Manufacturing black-heart malleable cast iron from white cast iron. 1,692,842; Nov. 27.
King, Howard K., Philadelphia, Pa., assignor to Chambers Brothers Company, Sheet folding. 1,693,147; Nov. 27.
King, Thomas E., Westfield, assignor to Hitchings & Company, Elizabeth, N. J. Transom-operating mechanism. 1,692,843; Nov. 27.
Kinkel, Samuel A., Minneapolis, Minn. Ventilator for window sashes. 1,693,519; Nov. 27.
Kirsch, Charles W., assignor to Kirsch Manufacturing Company, Sturgis, Mich. Composite drapery fixture. 1,693,082; Nov. 27.
Kirsch Manufacturing Company. (See Kirsch, Charles W., assignor.)
Kitt, William C., Cincinnati, Ohio. Humidifier for internal-combustion engines. 1,693,083; Nov. 27.
Klein, Bernard G., Chicago, Ill. Making embossed designs. 1,693,561; Nov. 27.
Klonne, Aug. (See Schürmann, Friedrich, assignor.)
Knapp, Raymond S., New York, N. Y. Body for cigar and cigarette lighters. Des. 77,009; Nov. 27.
Knott, Frank W., and B. Garilus, Detroit, Mich. Massaging machine. 1,693,300; Nov. 27.
Knowlton, Eugene W., assignor to John E. Smith's Sons Co., Buffalo, N. Y. Meat-cutting machine. 1,692,844; Nov. 27.
Köchy, Friedrich, Kloster-Groningen, near Halberstadt, Germany. Dough-kneading machine. 1,693,582; Nov. 27.
Kolaczkowski, Lukasz, Helmetta, N. J. Toy spring vehicle. 1,693,392; Nov. 27.
Kolb, George A., Bedford, Ohio. Internal-combustion engine. 1,692,845; Nov. 27.
Kondo, Rennosuke, Tokyo, Japan. Cylinder of an internal-combustion engine. 1,693,520; Nov. 27.
Kopp, Carl A., Sioux City, Iowa. Shears. 1,693,301; Nov. 27.
Koppers Company, The. (See Blackwood, Oswald H., assignor.)
Kraft, Henry P., deceased, Ridgewood, N. J.; E. J. Phillips and E. A. Darr, executors. Tire valve. 1,693,084; Nov. 27.
Kraft-Phenix Cheese Company. (See Eldredge, Elmer E., assignor.)
Kränzlein, Georg, K. Zahn, P. Ochwat, and M. Corell, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Derivatives of dibenzpyrenequinone and preparing the same. 1,693,447; Nov. 27.
Kraxberger, Michael E., Buckingham, Colo. Corn-harvesting apparatus. 1,693,085; Nov. 27.
Kreider, Walter J., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 1,693,279; Nov. 27.
Kreil, George. (See Davis, Marvin B., assignor.)
Kroll, Waldemar. (See Jackson, A. C., and Kroll.)
Krulkalla, Hans, Mannheim, and W. Müller, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Production of metallic compounds of dyestuffs. 1,693,448; Nov. 27.
Kubli, John, Hudson Heights, N. J. Traffic-signal apparatus. 1,692,942; Nov. 27.
Kuhnert, Walter A., Los Angeles, Calif. Recovery of sodium salts from brines. 1,693,237; Nov. 27.
Kulikowski, Adam H. (See Russell, Thomas C., assignor.)
Lackner Products Corporation. (See Lackner, Rolph J., assignor.)
Lackner, Rolph J., Ozone Park, assignor to Lackner Products Corporation, Brooklyn, N. Y. Combined light globe and traffic signal. Des. 77,010; Nov. 27.
Laib, William L., Oak Park, Ill. Support for lamps. 1,693,238; Nov. 27.
Laird, Robert L., Dallas, Tex. Cigarette case. 1,693,086; Nov. 27.
Lambert, George E., Salem, assignor of one-fourth to J. W. Duff, Portland, Oreg. Wire-rope clamp. 1,692,993; Nov. 27.
Lampert, Henry H., Chicago, Ill. Form clamp. 1,693,239; Nov. 27.
Lampert, Henry H., Chicago, Ill. Form clamp. 1,693,240; Nov. 27.
Lampert, Henry H., Chicago, Ill. Form clamp. 1,693,241; Nov. 27.
Landis & Gyr A.-G. (See Vannini, Philipp, assignor.)
Landis Tool Company. (See Balsiger, Harold E., assignor.)
Lapolla, Carlo, New Canaan, Conn. Plant support. 1,693,393; Nov. 27.
Lasher, Hiram S., Bronx, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,148; Nov. 27.
Lasher, Hiram S., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,149; Nov. 27.
Laughery, William A., Stockton, Calif. Automatic pressure-actuated gravity oiler. 1,693,087; Nov. 27.
Laughlin, Robert, assignor to Brand Company, Chicago, Ill. Brake-lining composition. 1,693,394; Nov. 27.
Lavergne, Jean, assignor to R. Forest, Paris, France. Rotary machine. 1,693,302; Nov. 27.
La Via, Joseph, Long Island City, N. Y. Film reel. 1,692,846; Nov. 27.
Lawton, Esther J., Pine Ridge, Oreg. Device to prevent warping in drying lumber. 1,693,395; Nov. 27.
Lazote Inc. (See Blake, Frank C., assignor.)
Leach, William B., jr., Niagara Falls, assignor to The Mathieson Alkali Works, New York, N. Y. Method and device for discharging chlorine from tank cars. 1,692,847; Nov. 27.
Leary, John C., San Francisco, Calif. Piston. 1,693,280; Nov. 27.
Leash, Homer E., assignor to International Wood Products Co., Niles, Calif. Equipment for manufacturing box parts. 1,693,521; Nov. 27.
Lee, Ell H., Monrovia, Calif. Game. 1,693,116; Nov. 27.
Leeman, Charles R., jr. (See Reinicke, O. R., and Leeman.)
Lehman, Louis H., Philadelphia, Pa. Shower inclosure. 1,693,088; Nov. 27.
Leiyveld, Joseph, Rockland, Mass. Foot demonstrator. 1,692,943; Nov. 27.
Leopold, George O. (See Fegley, T. J., and Leopold.)
Le Pul, Henry J, Hempstead, N. Y. Airplane-wing structure. 1,693,449; Nov. 27.
Leth, Paul. (See Hansen, C., and Leth.)
Liddell, Robert, Puteaux, assignor to Société Parisienne des Products de Beaute "Ganna Walska," Pantin, France. Box. Des. 77,013; Nov. 27.
Liebrecht, Arthur, Frankfort-on-the-Main, assignor to the firm Chemisch-Pharmazeutische Aktiengesellschaft Bad Homburg, Bad Homburg, Germany. Basic quinine solution. 1,692,900; Nov. 27.
Lindsay, William. (See Gordon, D. D., and Lindsay.)
Lippincott, Donald K. (See Pridham, E. S., and Lippincott.)
Lipsky, Norman, New York, N. Y., assignor to Halcolite Company, Inc. Lighting-fixture plate or article of analogous nature. Des. 77,014; Nov. 27.
Lipsky, Norman, New York, N. Y., assignor to Holcolite Company, Inc. Lighting-fixture streamer or article of analogous nature. Des. 77,015; Nov. 27
Lipsky, Norman, New York, N. Y., assignor to Holcolite Company, Inc. Lighting-fixture wall bracket or article of similar nature. Des. 77,016; Nov. 27.
Lister, Samuel W. (See Lister, Victor and S. W.)
Lister, Victor and S. W., Woolwich, England. Rotary washing machine. 1,693,089; Nov. 27.
Litten, Ira E., Orange, Calif. Snubber. 1,693,281; Nov. 27.
Littleton, George N., Portland, Oreg. Canopy or fixture securing device. 1,693,396; Nov. 27.
Locke Insulator Corporation. (See Hawley, Kent A., assignor.)
Lodewick, Sally M., New York, N. Y. Lady's pocketbook. Des. 77,011; Nov. 27.
Loewenbach, Oscar, Milwaukee, Wis. Loose-leaf binder. 1,693,242; Nov. 27.
Lofman, Charles, Los Angeles, Calif., assignor to Roberti Bros. Closet or recess bed. 1,693,090; Nov. 27.
Logan, Charles W., Kenmore, N. Y. Chandelier. Des. 77,012; Nov. 27.
Logan, Henry H., Chicago, Ill. Shock absorber. 1,693,340; Nov. 27.
Long Manufacturing Company. (See Higgins, Harry A., assignor.)
Long Manufacturing Company. (See Swank, Arthur L., assignor.)
Loomis, Evarts G., Newark, N. J. Method and apparatus for purifying camphor and similar volatile substances. 1,693,243; Nov. 27.
Loth, Julius, Koslin, Germany. Manufacturing artificial limbs and similar devices. 1,693,091; Nov. 27.
Lovell Manufacturing Company. (See Gehrlein, Vincent, assignor.)
Loyer, Fernand, and M. Gosselin, New York, N. Y. Hat holder. 1,693,341; Nov. 27.
Lucas, Samuel M., Pittsburgh, assignor to The Union Switch & Signal Company, Swissvale, Pa., Reactance device. 1,693,178; Nov. 27.
Luckey, George P., Dayton, Ohio. Mechanical differential movement and tachometer embodiment. 1,693,485; Nov. 27.
Luebbe, Fred H. L., Philadelphia, Pa. Hosiery. Des. 77,017; Nov. 27.
Löscher, Emil, and H. Steiger, Basel, assignors to the firm: Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Production of metaldehyde. 1,693,204; Nov. 27.
Lyon, Gustave, Paris, France. Apparatus for treating wood with ozone. 1,693,486; Nov. 27.
Macdonald, Alexander, Inverell, New South Wales, Australia. Shoe-cleaning device for use on motor cars. 1,693,305; Nov. 27.
MacDowell, Charles H., Chicago, Ill., and H. H. Meyers, Pittsburgh, Pa., assignors to Armour Fertilizer Works, Chicago, Ill. Production of sulphur dioxide and hydrogen. 1,693,244; Nov. 27.
Mackintosh, Frederick, Schenectady, N. Y., assignor to General Electric Company. Electric terminal equipment. 1,693,303; Nov. 27.
Magnus Company. (See Croft, W. H., and Shoemaker, assignors.)
Magnavox Company, The. (See Pridham, E. S., and Lippincott, assignors.)
Majestic Lamp Works. (See Cricchio, Paul, assignor.)
Malkin, Bernard A., Lachine, Quebec, Canada. Drive for paper-drying machines and the like. 1,692,901; Nov. 27.
Malonyay, Joseph, assignor to J. Donner, Budapest, Hungary. 1,693,150; Nov. 27.
Manhattan Electrical Supply Company. (See Henry, William F., assignor.)
Manierre, George, Milwaukee, Wis. Truck. 1,692,848; Nov. 27.
Mansfield, George H., Cuyahoga Falls, Ohio. Hollow-stay bolt manufacturing. 1,693,487; Nov. 27.
Marley, Robert E., Culver City, Calif. Billiard-cue-tip holder. 1,693,037; Nov. 27.
Marshall, Walter C. (See Juneau, C. G., and Marshall.)
Marthey, Clarence T., Bowdil, Ohio. Wrench. 1,693,304; Nov. 27.
Martin, Glenn L., Co., The. (See Benson, Lester, assignor.)
Maurichi-Goshikaisha. (See Fukagawa, Kijiro, assignor.)
Marvel Carbureter Company. (See Rayfield, Charles L., assignor.)
Mason, Arthur R., and O. C. Failing, Medford, Oreg., assignors to Accurate Gasoline Recording Company. Recording and sales-check mechanism for fluid-dispensing pumps. 1,693,092; Nov. 27.
Mason, Max, Chicago, Ill. Determining the nature of subsoil. 1,692,849; Nov. 27.
Mathews Conveyer Company. (See Anderson, Martin J., assignor.)
Mathieson Alkali Works, The. (See Leach, William B., jr., assignor.)
Mattis, Frank, Dayton, Ohio. Radio loud speaker. 1,692,994; Nov. 27.
Maytag Company, The. (See Snyder, Howard F., assignor.)
Mayer, Paul, Vienna, Austria. Device for holding and applying cosmetics and the like. 1,693,151; Nov. 27.
Mayes Brothers Tool Manufacturing Company. (See Mayes, John, assignor.)
Mayes, John, assignor to Mayes Brothers Tool Manufacturing Company, Port Austin, Mich. Cementing compound. 1,693,488; Nov. 27.
McCarthy, Hugh E. (See Mettler, Arthur L., assignor.)
McCauley, Ernest G., Dayton, Ohio. Aircraft propeller. 1,693,450; Nov. 27.
McCauley, Ernest G., and F. W. Caldwell, Dayton, Ohio; said Caldwell assignor to Standard Steel Propeller Company. Propeller-control mechanism for reversible or adjustable pitch propellers. 1,693,451; Nov. 27.
McCreary, Thomas W., assignor to The Phoenix Glass Company, Monaca, Pa. Fish bowl or similar article. Des. 77,018; Nov. 27.
McCune, Catherine, Denver, Colo. Mask for facial treatments. 1,693,452; Nov. 27.
McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,693,306; Nov. 27.
McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,693,307; Nov. 27.
McDonald, John J., Westview, Pa. Tire protector. 1,692,850; Nov. 27.
McDonnell, Anthony F., Dunmore, assignor of one-third to W. A. Quinn, Scranton, Pa. Closure for containers. 1,693,117; Nov. 27.
McElroy, Frank C., Columbus, Ohio. Incandescent lamp. 1,693,453; Nov. 27.
McEvoy Wireless Well Strainer Corporation. (See Woodward, Richard C., assignor.)
McFadden, Glenn E., Kansas City, Mo. Scroll arm for an electric-lighting fixture or similar article. Des. 77,019; Nov. 27.
McGill, Marvin E., Madison, Ga. Pencil. 1,693,454; Nov. 27.
McGillan, Barney, Green Bay, Wis. Dustpan. 1,693,489; Nov. 27.
McGrath, John J., Brooklyn, N. Y. Removable cap attachment. 1,692,944; Nov. 27.
McGrath, John T., Newark, N. J. Necktie stretcher. 1,693,205; Nov. 27.
McGrath, William L., Elmira, N. Y., assignor to Eclipse Machine Company. Engine starter. 1,693,342; Nov. 27.
McIntyre, John. (See Bramley-Moore, Swinfen, assignor.)
McNamee, James, Ballston Spa, N. Y. Knitting machine. 1,692,945; Nov. 27.
Medearis, Robert E., Nashville, Tenn. Electric steam table. 1,693,522; Nov. 27.
Meehan, Paul A., assignor to American Dressler Tunnel Kilns, Inc., Cleveland, Ohio. Furnace-truck seal. 1,693,152; Nov. 27.
Mellicke, Carl A., Chicago, Ill. Fireside golf green. Des. 77,020; Nov. 27.
Melder, Theodore, Roxbury, Mass. Secret-lock box. 1,693,038; Nov. 27.
Mcdrum, Alexander, Syracuse, assignor to Smith-Lee Company, Inc., Oneida, N. Y. Cover-all cap. 1,693,455; Nov. 27.
Mellor, Horace, assignor to Sanford Mills, Sanford, Me. Pile fabric. 1,693,282; Nov. 27.
Meng, Harry E., Oak Park, assignor to W. D. Allen Manufacturing Company, Chicago, Ill. Sprinkler head. 1,693,245; Nov. 27.
Merkowitz, Paul, Malta, Mont. Garment deodorizer. 1,693,308; Nov. 27.
Merriman, Thomas C., Tunstall, England, assignor to William S. Pitcairn Corporation. Covered dish or similar article. Des. 77,021; Nov. 27.
Mettler, Arthur L., San Pedro, assignor of one-half to H. E. McCarthy, Long Beach, Calif. Signaling device. 1,693,309; Nov. 27.
Meyers, Herbert H. (See MacDowell, C. H., and Meyers.)
Mildren, Lory J. (See Worthington, James P., assignor.)
Millard, Charles W., jr., Scarsdale, N. Y. Automatic automobile backslide brake. 1,692,946; Nov. 27.
Miller, Charles, Long Island City, and M. Feinstein, Corona, N. Y., said Feinstein assignor to said Miller. Shoe last. 1,693,397; Nov. 27.
Miller, Charles, Long Island City, and M. Feinstein, Corona, N. Y., said Feinstein assignor to said Miller. Therapeutic shoe. 1,693,398; Nov. 27.
Miller, Charles H., Detroit, Mich. Button fastener. 1,693,310; Nov. 27.
Miller, Frank, Claysburg, Pa. Brick machine. 1,693,179; Nov. 27.
Miller, Harvey H., assignor to The H. H. Miller Industries Company, Canton, Ohio. Machine for treating materials. 1,692,947; Nov. 27.
Miller, H. H., Industries Company, The. (See Miller, Harvey H., assignor.)
Miller, H. H., Industries Company, The. (See Thompson, William H., assignor.)
Miller, Robert M., Fort Lauderdale, and H. D. Hodgson, Miami, Fla. Sea wall and making same. 1,693,311; Nov. 27.
Miller Saw-Trimmer Company. (See Upham, Burt F., assignor.)
Mills, Clarence E. (See Atteberry, A. R., and Blalock, assignors.)
Mills Novelty Company. (See Radtke, Bruno, assignor.)
Milotte, Elmore, assignor of one-half to J. B. Morganti, Eureka, Calif. Overhead haulage carrier. 1,693,523; Nov. 27.

Minor, Burt S., assignor to Regan Forge & Engineering Company, San Pedro, Calif. Blow-out device for oil wells. 1,693,039; Nov. 27.

Mitru, Arsenie. (See Borzin, M. H., and Mitru.)

Mix, Albert E., Garfield, Utah. Apparatus for casting metal bodies. 1,693,283; Nov. 27.

Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt for personal wear. 1,693,093; Nov. 27.

Mix, Frederick H., Brooklyn, N. Y., assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Display card. 1,693,246; Nov. 27.

Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)

Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co. Conveyer port. 1,692,851; Nov. 27.

Moltrup, James T., Beaver Falls, Pa. Die and drawing shapes. 1,692,902; Nov. 27.

Molz, Joseph, Oberhausen, Germany, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Ring mill. 1,693,247; Nov. 27.

Moore, Elmer E., assignor of forty-nine per cent to J. Sweeney, Martins Ferry, Ohio. Curtain-rod and shade holder. 1,693,312; Nov. 27.

Moore, Raymond H. (See Rich, E. A., jr., and Moore.)

Moore, Raymond H., Chicago, Ill., assignor to The American Foundry Equipment Company, New York, N. Y. Sand-blast apparatus and process. 1,692,948; Nov. 27.

Morales, Pedro J. (See Hardy, E. C., and Morales.)

Morgan, Edmund C., deceased, by O. E. Mogran, executrix, New York, N. Y. Mining system and apparatus. 1,693,040; Nov. 27.)

Morgan, Edmund C., deceased, by O. E. Morgan, executrix, New York, N. Y. Belt fastener for conveyers. 1,693,041; Nov. 27.

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Mining and loading machine and method. 1,693,343; Nov. 27.

Morgan, Edmund C., deceased, New York, N. Y.; O. E. Morgan, executrix. Loading and conveying apparatus for coal mines. 1,693,344; Nov. 27.

Morgan Knitting Mills, Inc. (See Goetze, Albin F., assignor.)

Morgan, Olive E., executrix. (See Morgan, Edmund C.)

Morganti, J. B. (See Milotte, Elmore, assignor.)

Morris, Fred C., San Francisco, Calif. Oil filter for engines. 1,692,852; Nov. 27.

Morton, Elvin D., and J. Brett, Indianapolis, Ind. Lowering the height of the chassis of motor vehicles. 1,693,490; Nov. 27.

Mothes, Paul O., North Bergen, N. J., assignor of one-half to Stein-Tobler Company, Inc. Fabric frame and fabric-mounting apparatus for embroidery machines. 1,693,562; Nov. 27.

Mothorn, Pressley, Healdsburg, Calif. Prune grader. 1,693,042; Nov. 27.

Mueller Co. (See Mueller, Robert H., assignor.)

Mueller, L. J., Furnace Company. (See Wagner, Charles H., assignor.)

Mueller, Robert H., assignor to Mueller Co., Decatur, Ill. Combination sink faucet. Des. 77,022; Nov. 27.

Mueller, Robert H., assignor to Mueller Co., Decatur, Ill. Combination sink faucet. Des. 77,023; Nov. 27.

Mueller, Robert H., assignor to Mueller Co., Decatur, Ill. Combination sink faucet. Des. 77,024; Nov. 27.

Mulholland, Vergil, West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Liquid-fuel burner. 1,692,853; Nov. 27.

Müller, Heinrich, Nuremberg, Germany. Hollow toy figure. 1,693,563; Nov. 27.

Müller, Werner. (See Krzikalla, H., and Müller.)

Mundlos, Rudolf, Magdeburg, Germany. Feeding mechanism for sewing machines. 1,693,524; Nov. 27.

Munters, Carl G., Stockholm, Sweden, assignor to Electrolux Servel Corporation, New York, N. Y. Refrigeration. 1,693,553; Nov. 27.

Murch, Wilfred M., Hamburg, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Production of anthraquinone coloring matters. 1,692,854; Nov. 27.

Murphey, James A., Germantown, Pa. Automobile steering-wheel hub. 1,693,153; Nov. 27.

Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Electrical control device. 1,693,313; Nov. 27.

Murphy, Edwin J., Schenectady, N. Y., assignor to General Electric Company. Reproducing position. 1,693,314; Nov. 27.

Murphy, Everett N., assignor to Stevens Partition & Floor Deadener Company, Chicago, Ill. Soundproofed shock-absorbed laundry floor. 1,692,855; Nov. 27.

Murphy, John J., assignor to The Davis-Warner Arms Corporation, Norwich, Conn. Gun. 1,692,995; Nov. 27.

Murphy, Paul J., and G. B. Sontag, St. Louis, assignors to St. Stanislaus Seminary, Florissant, Mo. Hammock. 1,693,564; Nov. 27.

Murray, Thomas E., Brooklyn, N. Y. Heater. 1,693,043; Nov. 27.

Murray, Thomas E., jr., Brooklyn, N. Y. Making axle-housing blanks. 1,693,044; Nov. 27.

Murray, Thomas E., Brooklyn, N. Y. Making flanged tubes and other products. 1,693,045; Nov. 27.

Murray, Thomas E. (See Williams, Herbert H., assignor.)

Naert, Alexis, Detroit, Mich. Apparatus for extracting gas and oil from waste. 1,693,456; Nov. 27.

Nagin, Harry, assignor to Tri-Lock Company, Pittsburgh, Pa. Grating structure. 1,693,399; Nov. 27.

Nash, Clarence A., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Production of plastic composition materials. 1,692,856; Nov. 27.

National Aluminate Corporation. (See Christman, Clarence H., assignor.)

National Aniline & Chemical Co. (See Murch, Wilfred M., assignor.)

National Automatic Tool Company, The. (See Bockhoff, William F., assignor.)

National Cash Register Company, The. (See Hummerich, Elton E., assignor.)

National Cash Register Company, The. (See Kreider, Walter J., assignor.)

Naylor, Leslie W., Florence, assignor to Continental Oil Company, Denver, Colo. Revivification of filtering materials. 1,693,206; Nov. 27.

Naylor, Leslie W., Florence, assignor to Continental Oil Company, Denver, Ohio. Apparatus for revivification of filtering materials. 1,693,207; Nov. 27.

Nelson, Charles G., assignor to Zouri Drawn Metals Company, Chicago Heights, Ill. Device for securing plate glass. 1,693,046; Nov. 27.

Nelson, Gust, assignor of one-half to F. R. Pendleton, Vancouver, British Columbia, Canada. Conveyer. 1,693,208; Nov. 27.

Nelson, Henry T. (See Carter, William W., assignor.)

New Departure Manufacturing Company, The. (See Allen, Carlos H., assignor.)

New Departure Manufacturing Company, The. (See De-laval-Crow, Thomas C., assignor.)

Newkirk, William B., Riverside, Ill., assignor to International Patents Development Company, Wilmington, Del. High-purity crystalline dextrose. 1,693,118; Nov. 27.

Newman, Martin F., assignor to Wm. B. Scaife & Sons Company, Oakmont, Pa. Preparing natural zeolites. 1,693,284; Nov. 27.

Newmann, John, Glandale, N. Y. Transmission mechanism. 1,693,154; Nov. 27.

Newton, Frank H., Los Angeles, Calif. Reservoir comb. 1,693,248; Nov. 27.

Newton, Guy V., and E. Blackburn, Los Angeles, Calif.; said Blackburn assignor to said Newton. Mechanism for revolving typewriter cylinders. 1,693,285; Nov. 27.

Niederlitz, Joseph D., Rochester, N. Y. Pack of playing cards. 1,693,525; Nov. 27.

Nordberg Manufacturing Company. (See Wintzer, Rudolph, assignor.)

North Bro's M'f'g Co. (See Pegley, T. J., and Leopold, assignors.)

North East Electric Company. (See Thompson, Russell G., assignor.)

Nye, Henry V., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Induction-motor control system. 1,693,587; Nov. 27.

Nygaard, Oscar, Saugus, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Furnace wall and brick therefor. 1,693,400; Nov. 27.

Nyman, Alexander, Wilkinsburg, and F. Conrad, Pittsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Telephone circuits and apparatus. 1,693,401; Nov. 27.

O.-N. Spring Shackle Company. (See Henry, Raymond, assignor.)

Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Shoe heel. Des. 77,025; Nov. 27.

Ochwat, Paul. (See Kränzlein, G., Zahn, Ochwat, and Coreil.)

Oden, Eugene R., Lankershim, Calif. Forestalling leakage in concrete reservoirs. 1,693,094; Nov. 27.

Ogden, Clarence E., Cincinnati, Ohio. Vibrator for alternating-current rectifiers. 1,693,491; Nov. 27.

Ohio Brass Company, The. (See Austin, Arthur O., assignor.)

Ohrmund, F. H. (See Crane, Samuel G., assignor.)

Olch, Jacob B., Providence, R. I., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Cylinder pawl for jacquards. 1,692,949; Nov. 27.

Onnertz, Paul, Berlin-Wilmersdorf, and B. Schwärzel, Berlin, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Protecting animal fiber. 1,692,950; Nov. 27.

Osmundson, Christian, Webster City, Iowa. Cultivator-shovel structure. 1,693,047; Nov. 27.

Östberg, Nils F. B., Tureberg, Sweden. Rake. 1,693,492; Nov. 27.

Oven, Frank J., Chicago, Ill., assignor to Victor Manufacturing & Gasket Co. Metallic gasket. 1,692,857; Nov. 27.

Owens Bottle Company, The. (See Cramer, Albert N., assignor.)

Owens, Charles S., Madisonville, Ohio. Hinge. 1,693,526; Nov. 27.

Paca, John P., assignor to The Diebold Safe & Lock Company, Canton, Ohio. Automatic pressure-system lock. 1,693,048; Nov. 27.

Packard Motor Car Company. (See Tibbetts, Milton, assignor.)

Packard Motor Car Company. (See Wright, Lewis A., assignor.)

Pagano, Gaetano, assignor of one-fifth to G. Soña and one-fifth to S. Straziare, Brooklyn, N. Y. Shade raiser. 1,693,457; Nov. 27.





Patterson, Benjamin G., Oklahoma City, Okla. Dispensing cabinet. 1,693,458; Nov. 27.

Patteson, Donald C. (See Young, M. N., and Patteson.)

Patton, Eber H., Longwood, Miss. Nut-cracking machine. 1,693,493; Nov. 27.

Paulson, Arthur. (See Riederer, H. S., and Paulson.)

Paulus, Charles L. (See Kauch, R., and Paulus.)

Paulus, Charles L., and R. Kauch, Dayton, Ohio. Hose-nozzle guard. 1,693,459; Nov. 27.

Paulus, Charles L., Dayton, Ohio, and R. Kauch, U. S. Army. Ammunition-feed mechanism for machine guns. 1,693,460; Nov. 27.

Pauly, Charles, Port Washington, Wis. Vat. 1,693,249; Nov. 27.

Peerless Surfacing Machine Co. Inc. (See Schacht, Elmer C., assignor.)

Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Glass-working apparatus. 1,692,858; Nov. 27.

Pembroke, Winfield P., assignor to Kee Lox Manufacturing Company, Rochester, N. Y. Machine for testing typewriting ribbons, carbon paper, etc. 1,693,494; Nov. 27.

Pendleton, Frank R. (See Nelson, Gust, assignor.)

Penfold, Albert E., Birmingham, assignor to The Dunlop Rubber Company, Limited, London, England. Making golf balls and articles produced therefrom. 1,693,315; Nov. 27.

Perfecto Gear Differential Co. (See Jackson, Ernest W., assignor.)

Perrotta, Alfred. (See Badger, Leo A., assignor.)

Perry, Edward D., Pawtucket, R. I., assignor to Scintilla Magneto Company, Inc., Sidney, N. Y. Magneto construction. 1,693,345; Nov. 27.

Perry, Marsden J., jr., Providence, R. I. Pitcher. Des. 77,027; Nov. 27.

Peterson, Adolphe C., Minneapolis, Minn. Automatic motor gear-changing means. 1,693,346; Nov. 27.

Peterson, Alfred J. A. Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Relay system. 1,693,402; Nov. 27.

Peterson, Juel L., Rockford, Ill. Change-speed transmission mechanism. 1,692,859; Nov. 27.

Peterson, Samuel H., and A. G. Anderson, Muskegon Heights, Mich. Window screen. 1,693,209; Nov. 27.

Petri, Gunther H., assignor to Petri and Jones Company, Incorporated, Boston, Mass. Bread-making apparatus. 1,692,860; Nov. 27.

Petri and Jones Company. (See Petri, Gunther H., assignor.)

Petroff, Grigori, Moscow. Union of Soviet Socialist Republics. Process for the production of the condensation products of phenols with aldehydes. 1,693,461; Nov. 27.

Pfeiffer, George J. (See Favor, H. S., and Pfeiffer.)

Pfister, William A. (See Price, E., and Pfister.)

Pflueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Fish scaler. 1,693,566; Nov. 27.

Phelp, Phil F., assignor of one-half to H. L. Bonnell, Los Angeles, Calif. Fruit-tree prop. 1,693,180; Nov. 27.

Phillips, Edgar J., et al., executors. (See Kraft, Henry P.)

Phoenix Glass Company, The. (See McCreary, Thomas W., assignor.)

Piazzoli, Louis P., jr., assignor to Capstan Glass Company, Connellsville, Pa. Sealed package and closure cap therefor. 1,693,250; Nov. 27.

Pick, Paul, assignor to The Kalbfleisch Corporation of New York, New York, N. Y. Container. 1,693,251; Nov. 27.

Pierce, Esta M., assignor to The Bowling Green Poultry Supply Company, Bowling Green, Ohio. Chick brooder. 1,693,049; Nov. 27.

Pierce, Walter H., Watertown, Mass., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,693,565; Nov. 27.

Pilkington Brothers Limited. (See Waldron, Frederic B., assignor.)

Pinckney, Arthur S., Dayton, Ohio. Drinking cup and the like. 1,692,951; Nov. 27.

Pinkus, Abraham S., New York, N. Y. Adjustable wrench. 1,693,347; Nov. 27.

Pioneer Suspender Company. (See Simmons, Frederick C., assignor.)

Pitcairn, William S., Corporation. (See Merriman, Thomas C., assignor.)

Pneumatic Scale Corporation, Limited. (See Cleaves, William S., assignor.)

Pollifrone, Frank, Brooklyn, N. Y. Flash-light safety razor. 1,693,348; Nov. 27.

Polnaszek, John P., assignor of one-half to P. Strzok, Minneapolis, Minn. Waving iron for hair. 1,693,462; Nov. 27.

Pomeroy, S. H., Company. (See Flen, Alphonsus, assignor.)

Poole, Clarence F., Evanston, assignor to Goodman Manufacturing Company, Chicago, Ill. Flitting device. 1,692,861; Nov. 27.

Portable Machinery Company Inc. (See Harrison, William H., assignor.)

Potter, Ralph K., New York, N. Y., assignor to American Telephone and Telegraph Company. Amplification of photo-electric call response. 1,692,904; Nov. 27.

Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,692,862; Nov. 27.

Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining machine. 1,692,863; Nov. 27.

Price, Emil, and W. A. Pfister, Los Angeles, Calif. Valve fitting. Des. 77,028; Nov. 27.

Pridham, Edwin S., Oakland, and D. K. Lippincott, Alameda, assignors to The Magnavox Company, Oakland, Calif. Gang condenser and adjusting same. 1,693,286; Nov. 27.

Priester, Harry, executor. (See Fallot, Alfred.)

Primrose, John, Richmond, assignor to Foster Wheeler Corporation, New York, N. Y. Oil heater. 1,693,155; Nov. 27.

Primrose, John, assignor to Foster Wheeler Corporation, New York, N. Y. Apparatus for refining oils. 1,693,156; Nov. 27.

Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Vacuum-tube circuits. 1,693,316; Nov. 27.

Prockter, Walter, Huntington, W. Va. Carbide lamp. 1,693,463; Nov. 27.

Proctor, Thomas, Nelson, England. Vacuum cleaner. 1,693,050; Nov. 27.

Prouty, Willis O., Hermosa Beach, assignor, by mesne assignments, to American Encaustic Tiling Company, Ltd., Los Angeles, Calif. Ceramic-glazing process. 1,693,252; Nov. 27.

Pym, Arthur F., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Upper-shaping machine. 1,693,119; Nov. 27.

Quality Manufacturing Company. (See Hill, Fred E., assignor.)

Quantz, Roy J., Pittsburgh, Pa. Convertible garment. 1,693,464; Nov. 27.

Quinn, John N., deceased, Cincinnati, Ohio; R. W. Quinn, administrator. Boiler-tube-blowing device. 1,693,181; Nov. 27.

Quinn, Richard W., administrator. (See Quinn, John N.)

Quinn, William A. (See McDonnell, Anthony F., assignor.)

Radtke, Bruno, Libertyville, assignor to Mills Novelty Company, Chicago, Ill. Wrapping machine. 1,693,403; Nov. 27.

Ramy, Paul, Brussels, Belgium. Securing railway rails to their supports. 1,693,465; Nov. 27.

Randall, Joseph W. (See Rockwell, S. F., and Randall.)

Rankin, Ernest L., assignor to C. W. W. Hanbidge, London, England. Driving mechanism for gramophones and the like. 1,693,495; Nov. 27.

Rastetter, William C., Fort Wayne, Ind. Folding chair. 1,693,349; Nov. 27.

Rauffus, Fred J., Great Kills, N. Y. Doll. 1,693,157; Nov. 27.

Rayfield, Charles L., Chicago, Ill., assignor, by mesne assignments, to Marvel Carbureter Company, Flint, Mich. Floating-venturi carburetor. 1,693,350; Nov. 27.

Raytheon Manufacturing Company. (See Spaeth, Charles, assignor.)

Reed Air Filter Company. (See Reed, W. M., and Hegan, assignors.)

Reed, William M., and C. P. Hegan, assignors to Reed Air Filter Company, Louisville, Ky. Air filter. 1,693,585; Nov. 27.

Reeves, Dache M., Belleville, Ill. Aerial photograph interpreter. 1,693,527; Nov. 27.

Regan Forge & Engineering Company. (See Minor, Burt S., assignor.)

Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electrically-operated warp stop motion. 1,692,952; Nov. 27.

Reinicke, Otto R., and C. R. Leeman, jr., Detroit, Mich. Combined doorcheck and door bumper. 1,693,158; Nov. 27.

Remington Rand Inc. (See Anderson, Axel H., assignor.)

Rendleman, Norman C., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Running rail. 1,692,905; Nov. 27.

Reserve Holding Company. (See Gould, Roy F., assignor.)

Rhyner, William J., Spreckels, Calif. Adjustable seat for automobiles. 1,693,120; Nov. 27.

Rice, Chester S., Schenectady, N. Y., assignor to General Electric Company. Bracing casing structures for elastic-fluid turbines and the like. 1,693,317; Nov. 27.

Rice Products Inc. (See West, Frank R., assignor.)

Rich, Elmer A., jr., and R. H. Moore, Chicago, Ill. Sand-blast machine. 1,692,864; Nov. 27.

Richardson, Benjamin P., deceased, Brookline, Mass.; E. D. Richardson, executrix. Protecting granular substances and resulting product. 1,692,996; Nov. 27.

Richardson & Boynton Co. (See Richardson, Dwight S., assignor.)

Richardson, Dwight S., assignor to Richardson & Boynton Co., New York, N. Y. Furnace. 1,692,953; Nov. 27.

Richardson, Emma D., executrix. (See Richardson, Benjamin P., assignor.)

Richardson, Myron H., and A. D. Antoine, assignors to Advance Machine Company, Chicago, Ill. Vending machine. 1,693,051; Nov. 27.

Richter, Jaroslav, and R. Ježek, Holice, Czechoslovakia. Sole for a shoe. Des. 77,029; Nov. 27.

Rickelmann, Gustav, Haledon, N. J. Aeroplane. 1,693,159; Nov. 27.

Riddell, Austin A., assignor to Fox Machine Company, Jackson, Mich. Multiple-spindle drilling-machine arm. 1,693,253; Nov. 27.

Riederer, Herman S., and A. Paulson; said Paulson assignor to Christean Iverson, Inc., New York, N. Y. Filing device. 1,692,865; Nov. 27.
Riemvis, Wilhelm F., Soekaboemi, Java, Dutch East Indies. Automobile brancard. 1,693,406; Nov. 27.
Riha, Don. (See Riha, Frank J.)
Riha, Frank J., known as Don Riha, Chicago, Ill. Artificial tree. Des. 77,030; Nov. 27.
Riley, John P., Philadelphia, Pa. Advertising display fixture. Des. 77,026; Nov. 27.
Rip Van Winkle Wall Bed Company. (See Sinclair, Neil, assignor.)
Risch, Joseph J. (See Corrie, David A., assignor.)
Ritchie, Robert H. (See Ritchie, Thomas and R. H.)
Ritchie, Thomas and R. H., Oskaloosa, Iowa. Hydrant. 1,693,095; Nov. 27.
Roberti Bros. (See Lofman, Charles, assignor.)
Roberts, James H., St. Helens, Oreg. Saw-dressing device. 1,692,997; Nov. 27.
Roberts, Montague H., Jersey City, N. J., assignor to Air Reduction Company, Inc. Separation of gases from gaseous mixture. 1,693,052; Nov. 27.
Robin, John N., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating apparatus. 1,693,567; Nov. 27.
Robinson, Harry G., Waterbury, Conn., assignor to Industries of America, Inc. Braiding machine. 1,693,121; Nov. 27.
Rochester, Richmond, jr., assignor to Automatic Electric Boiler Co., Chicago, Ill. Heating device. 1,693,182; Nov. 27.
Rockwell, Samuel F., and J. W. Randall, assignors to Davis & Furber Machine Company, North Andover, Mass. Bunch-building spinning mule. 1,692,866; Nov. 27.
Rodenbeck, Henry W., Pasadena, Calif. Vehicle brake. 1,693,466; Nov. 27.
Rodier, Hilmer F., Davenport, Iowa. Fluid-fuel heating apparatus and forming a combustible mixture. 1,693,053; Nov. 27.
Rönnberg, Daniel, and A. Rooth, Ludvika, assignors to Allmänna Svenska Elektriska Atkiebolaget, Vasteras, Sweden. Link mechanism for circuit breakers. 1,692,867; Nov. 27.
Rooth, Adolf. (See Rönnberg, D., and Rooth.)
Ross, Samuel E. (See Scott, B. H., and Ross.)
Rothmann, Gerhard, Herne, Germany. Portable compressor plant. 1,693,183; Nov. 27.
Roughan, John E., assignor to W. F. Bossert, Liberty, Ind. Clamp-applying tool. 1,692,954; Nov. 27.
Rowley, James M., Buffalo, N. Y. Water heater. 1,693,254; Nov. 27.
Rowley, William S., and H. W. Butterworth, jr., Philadelphia, Pa., assignors to H. W. Butterworth & Sons Company. Operating textile ranges. 1,692,955; Nov. 27.
Royal Card & Paper Co. (See Baron, Abner, assignor.)
Ruben, Samuel, New York, N. Y. Leading-in conductor. 1,692,998; Nov. 27.
Rudolph, Wilhelm, assignor to the firm Signal Gesellschaft m. b. H., Kiel, Germany. Acoustical apparatus for telephonic communication. 1,692,868; Nov. 27.
Rumely, Vincent P., assignor to Hudson Motor Car Company, Detroit, Mich. Vehicle anchoring device. 1,693,184; Nov. 27.
Rundell, Fred T. (See Daives, D. G., and Rundell.)
Russ, John B., Shelton, Conn. Lever catch. Des. 77,031; Nov. 27.
Russell, Ralph R., and J. S. White, Paducah, Ky. Ventilating device. 1,693,497; Nov. 27.
Russell, Thomas C., assignor to A. H. Kulikowski, Evanston, Ill. Frankfurt machine. 1,692,956; Nov. 27.
Rust, Mortimer R. (See Haskell, J. D., and Rust.)
Ruud Manufacturing Company. (See Humphrey, Herbert S., assignor.)
Ryberg, Charles O., Brockton, Mass. Heel base for shoes. 1,693,160; Nov. 27.
Ryer, Elmer L. (See Clement, H., and Ryer.)
Sager, Abraham, Chicago, Ill. Ring. Des. 77,032; Nov. 27.
St. Stanislaus Seminary. (See Murphy, P. J., and Sontag, assignors.)
Samuels, Maurice V., San Francisco, Calif. Mechanical receptacle. 1,693,096; Nov. 27.
Sandin, Maurits J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Thermal cut-out. 1,693,404; Nov. 27.
Sandkuhl, Edmund H., Brooklyn, assignor to David H. Zell, Inc., New York, N. Y. Coin bank. 1,693,351; Nov. 27.
Sandretto, Thomas, Gary, Ind. Fountain brush. 1,693,161; Nov. 27.
Sanford, Jesse H., jr., assignor to Guaranteed Water Engineering Corporation, Pittsburgh, Pa. Apparatus for cleaning wells. 1,693,405; Nov. 27.
Sanford Mills. (See Mellor, Horace, assignor.)
Sanford, Roy S., South Bend, Ind., assignor, by mesne assignments, to Bendix Brake Company, Chicago, Ill. Vehicle brake. Re17,147; Nov. 27.
Santa Barbara Lumber Company. (See Cummings, Earle W., assignor.)
Sarber, Ira E., Elmore, Ala. Grave cover or similar article. Des. 77,033; Nov. 27.
Satterlee, Eugene M., Meadville, assignor of one-half to The Standard Trailer Company, Cambridge Springs, Pa. Auxiliary air and drainage device for gasoline-engine intakes. 1,693,162; Nov. 27.
Sayles Finishing Plants, Inc. (See Bennett, George E., assignor.)
Scaife, Wm. B., & Sons Company. (See Newman, Martin F., assignor.)
Scanlan, Chester J., Bloomington, Ill. Electric water heater. 1,692,869; Nov. 27.
Schacht, Elmer C., assignor to Peerless Surfacing Machine Co. Inc., Troy, N. Y. Disk sanding mechanism. 1,693,163; Nov. 27.
Schein, Alexander E., Flushing, N. Y. Hydrocarbon burner. 1,693,054; Nov. 27.
Schleicher, Frank J., St. Louis, Mo. Box. Des. 77,034; Nov. 27.
Schmidt, Henry F., Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company. Dredger pump. 1,693,352; Nov. 27.
Schmidt, Kurt. (See Schoeller, W., and Schmidt.)
Schmidt, William F., assignor to All Metal Products Company, Wyandotte, Mich. Toy machine gun. 1,693,406; Nov. 27.
Schmoize, Mildred C., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,035; Nov. 27.
Schmoize, Mildred C., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,036; Nov. 27.
Schmoize, Mildred C., assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,037; Nov. 27.
Schnee, William G., Kansas City, Mo. Vaporizing heat unit for internal-combustion engines. 1,692,906; Nov. 27.
Schoeller, Walter, Berlin-Westend, and K. Schmidt, Berlin-Friedenau, assignors to the firm Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Pharmaceutical preparations and making same. 1,693,055; Nov. 27.
Schulz, George W., Clark, S. Dak. Harrow drawbar. 1,693,467; Nov. 27.
Schürmann, Friedrich, assignor to the firm Aug. Klonne, Dortmund, Germany. Sealing piston for reservoirs for the storage of gas, steam, or easily-evaporating liquids. 1,693,468; Nov. 27.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 77,038; Nov. 27.
Schwarber, Henry, Weehawken, N. J. Embroidered lace edging. Des. 77,039; Nov. 27.
Schwartz, Henry H., Scranton, Pa. Shoe construction. 1,693,122; Nov. 27.
Schwarz, Adolf. (See Bockmühl, M., and Schwarz.)
Schwarz, Christian J. G., Offenbach-on-the-Main, Germany. Fastener for the mouth frames of hand bags. 1,693,056; Nov. 27.
Schwärzel, Benno. (See Onnerts, P., and Schwärzel.)
Scintilla Magneto Company. (See Perry, Edward D., assignor.)
Scott, Bernard H., Glendale, and S. E. Ross, Long Beach, assignors to Scott-Ross and Company, Los Angeles, Calif. Quick-action retention valve for wells. 1,693,255; Nov. 27.
Scott, David J., et al., executors. (See Drange, Carl E., assignor.)
Scott, Frank W., Kirkland, Ill. Sheep shears. 1,692,870; Nov. 27.
Scott, Isabella, et al., executors. (See Drange, Carl E., assignor.)
Scott-Ross and Company. (See Scott, B. H., and Ross, assignors.)
Scott, Walter. (See Drange, Carl E., assignor.)
Scott, Walter, & Company. (See Drange, Carl E.)
Scott, Walter B., Marblehead, Mass. Toy windmill. 1,693,057; Nov. 27.
Searing, Hudson R. (See Boyle, W. E., and Searing.)
Selector Corporation. (See Wurzbach, H. E., and Wadsworth, assignors.)
Seyer, Humboldt M. (See Astley, Edward F., assignor.)
Shackleton, Samuel P., Wyoming, and A. A. Hansen, West Orange, N. J., assignors to American Telephone and Telegraph Company. Relaying arrangement. 1,692,907; Nov. 27.
Shand, Errol B., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Vacuum valve for rectifiers. 1,693,407; Nov. 27.
Shannon, Richard S. (See Campbell, Thomas F., assignor.)
Shea, John J., San Diego, Calif. Automatic current-cut-out electric flatiron. 1,693,256; Nov. 27.
Shell, Sanders P., Anna, Tex. Moisture preserver. 1,693,318; Nov. 27.
Shelton, Harry J., University City, Mo. Rotary pivoted hammer. 1,693,058; Nov. 27.
Shield, Paul S., Cincinnati, Ohio, assignor to A. Davis, jr., Covington, Ky. Tank valve. 1,693,257; Nov. 27.
Shoemaker, Robert J. (See Croft, W. H., and Shoemaker.)
Shorts, Nelson T., Fern, Pa. Tire-valve stem and pressure gauge. 1,693,528; Nov. 27.
Shulhof, Otto B., New York, N. Y. Luminescent advertising sign. 1,693,059; Nov. 27.
Siegel, Clarence L., Chicago, Ill. Display frame. 1,692,999; Nov. 27.
Siegel, Maude, assignor to Franklin Simon & Company, Inc., New York, N. Y. Dress. Des. 77,040; Nov. 27.
Signal Gesellschaft m. b. H. (See Rudolph, Wilhelm, assignor.)



Simmons, Frederick C., Highland Park, Pa., assignor to Pioneer Suspender Company. Edge finishing. 1,692,871; Nov. 27.
Simmons, Harvey O., Schenectady, N. Y., assignor to General Electric Company. Tension indicator for brush holders. 1,693,319; Nov. 27.
Simon, R. & H., Company. (See Castro, Jeanne, assignor.)
Simonton, C. B. (See Simonton, John H., assignor.)
Simonton, John H., Brighton, assignor of forty-eight per cent to C. B. Simonton, Covington, Tenn. Combination locking bolt and opening and closing device for car doors. 1,692,908; Nov. 27.
Sinclair, Neil, assignor to Rip Van Winkle Wall Bed Company, Inc., Oakland, Calif. Wall-bed pivot mounting. 1,693,000; Nov. 27.
Skinner, John L., Minneapolis, Minn. Trap nest. 1,692,957; Nov. 27.
Slavin, William J., Howell, Mich. Drag scraper. 1,693,353; Nov. 27.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Power shovel. 1,692,872; Nov. 27.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Electric locomotive. 1,692,873; Nov. 27.
Smith, Charles F., assignor to Smith Engineering Works, Milwaukee, Wis. Gravel washer. 1,693,001; Nov. 27.
Smith Engineering Works. (See Smith, Charles F., assignor.)
Smith, Ira E., Stockton, Calif. Thermostatically-controlled damper. 1,693,060; Nov. 27.
Smith, Ira E., Stockton, Calif. Oil-burning apparatus. 1,693,061; Nov. 27.
Smith, L. C., & Corona Typewriters Inc. (See Ely, Alonzo B., assignor.)
Smith, Laurence A., Kansas City, Mo. Support fixture for hangings or for clothes hangers. 1,693,408; Nov. 27.
Smith-Lee Company. (See Meldrum, Alexander, assignor.)
Smith, Nelson K., Dallas, Tex. Tongs. 1,693,002; Nov. 27.
Smith, Turner B., and J. E. Bixler, Wilmington, Calif. Bed attachment. 1,693,320; Nov. 27.
Smith, William E., Milltown, assignor to Guibenkian Seamless Rug Company, New Brunswick, N. J. Stop motion for looms. 1,693,498; Nov. 27.
Smith's, John E., Sons Co. (See Knowlton, Eugene W., assignor.)
Smithey, L. P., et al. (See Smithey, Marvin, assignor.)
Smithey, Marvin, Lawrenceville, assignor to L. P. Smithey and N. C. Smithey, Roanoke, Va. Signal for motor vehicles. 1,693,554; Nov. 27.
Smithey, Marvin, Lawrenceville, assignor to L. P. and N. C. Smithey, Roanoke, Va. Signal or indicator for motor vehicles. 1,693,555; Nov. 27.
Smithey, Nellie C., et al. (See Smithey, Marvin, assignor.)
Snow, Clarence R., and D. J. Flood, Quincy, Mass. Magazine and book holder. 1,693,529; Nov. 27.
Snyder, Howard F., assignor, by mesne assignments, to The Maytag Company, Newton, Iowa. Packing and packing device. 1,693,003; Nov. 27.
Société Parisienne des Produits de Beaute "Ganna Walska." (See Liddell, Robert, assignor.)
Sofia, Gaetano, et al. (See Pagano, Gaetano, assignor.)
Sontag, Gregory B. (See Murphy, P. J., and Sontag.)
Sopp, Luther W., et al. (See Tartar, Roscoe C., assignor.)
Sosa, Joseph, Brooklyn, N. Y. Hinge. 1,693,004; Nov. 27.
Southmayd, Leon N., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Making cushion solid tires. 1,693,409; Nov. 27.
Spaeth, Charles, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Eliminating fluctuations in electric current. 1,693,258; Nov. 27.
Spaeth, Charles, Chicago, Ill., assignor, by mesne assignments, to Raytheon Manufacturing Company, Cambridge, Mass. Electron-discharge tube. 1,693,321; Nov. 27.
Speakman Company, The. (See Fraser, James, assignor.)
Speier, Joseph H., Los Angeles, Calif. Office-window protector. 1,693,287; Nov. 27.
Spencer, Corte J., Dundee, N. Y. Poke. 1,693,469; Nov. 27.
Spencer, Lenora, Hot Springs National Park, Ark. Sprinkling system. 1,693,556; Nov. 27.
Spencer, Walter S., St. Louis, Mo. Pistol. 1,693,530; Nov. 27.
Spencer, William J., Troy, Idaho. Pneumatic tool. 1,693,123; Nov. 27.
Stahl, Chrlton B., White Hall, Ill. Bail. 1,692,958; Nov. 27.
Stallbaum, Charles F., Everett, Wash. Lamp shade. Des. 77,041; Nov. 27.
Stallbaum, Charles F., Everett, Wash. Lamp base. Des. 77,042; Nov. 27.
Stallbaum, Charles F., Everett, Wash. Lamp base. Des. 77,043; Nov. 27.
Standard Flexible Electric Cable Corporation. (See Barnett, Louis, assignor.)
Standard Steel Propeller Company. (See McCauley, E. G., and Caldwell, assignors.)
Standard Textile Products Company. (See Dieck, Henry W., assignor.)
Standard Trailer Company, The. (See Satterlee, Eugene M., assignor.)
Stanton, Myles J., Pittsfield, Mass., assignor to General Electric Company. Brush holder. 1,693,322; Nov. 27.
Stark, Gustaf A., Atwater, Minn. Grave lining and covering device. 1,693,062; Nov. 27.
Stark, Gustaf A., Atwater, Minn. Grave covering and lining device. 1,693,063; Nov. 27.
Steel Meddle Manufacturing Company. (See Kaufmann, John J., assignor.)
Steele, Edwin G. (See Sutton, H. M., and Steele.)
Steele, Walter L. (See Sutton, H. M., and Steele.)
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Compressor. 1,693,323; Nov. 27.
Stegmann, Wilhelm. (See Darmstadt, P., Stegmann, and Weil.)
Stehlik, Rudolph F., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,693,124; Nov. 27.
Steichen, Marie C., New York, N. Y. Hair waver. 1,693,005; Nov. 17.
Steiger, Heinrich. (See Lüscher, E., and Steiger.)
Stein-Tobler Company. (See Mothes, Paul O., assignor.)
Steiner, Frank M., Minneapolis, Minn., assignor to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. Des. 77,044; Nov. 27.
Steiner Sales Company. (See Steiner, Frank M., assignor.)
Steinert, Johann, Chemnitz, Germany. Glove. 1,692,959; Nov. 27.
Stem, Russel W. Allentown, Pa. Friction drive. 1,692,909; Nov. 27.
Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. Heat radiator. 1,693,324; Nov. 27.
Stephens, Wesley M. (See Hankison, L. E., and Stephens.)
Stephenson, William B., Chicago, Ill. Roof flashing. 1,6934,410; Nov. 27.
Stern, Marc, Flint, Mich., assignor to Doebler Die-Casting Company. Die-casting apparatus. 1,693,164; Nov. 27.
Sterns, Morton W., Jamaica, N. Y. Wireless telephone system. 1,693,354; Nov. 27.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Cutting device. 1,693,531; Nov. 27.
Stevens Partition & Floor Deadener Company. (See Murphy, Everett N., assignor.)
Stewart, Benjamin F., Birmingham, assignor of one-half to A. V. Vines, Bessemer, Ala. Safety razor. 1,693,532; Nov. 27.
Stickney, Burnham C., Portsmouth, N. H., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,533; Nov. 27.
Stoughton, Peter T., Portland, Me. Vehicle spring control. 1,693,097; Nov. 27.
Straka, John, assignor to The Wahl Company, Chicago, Ill. Magazine pencil. 1,693,577; Nov. 27.
Straka, John, assignor to The Wahl Company, Chicago, Ill. Magazine pencil. 1,693,578; Nov. 27.
Straka, John, Kent, Ohio, assignor to The Wahl Company, Wilmington, Del. Magazine pencil. 1,693,579; Nov. 27.
Straziare, Salvatore, et al. (See Pagano, Gaetano, assignor.)
Strzok, Peter. (See Polnaszek, John P., assignor.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sumney, David L., Waterbury, Conn. Conveyer for heating furnaces. 1,693,568; Nov. 27.
Sundstrand Corporation. (See Sunstrand, Oscar J., assignor.)
Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to Sunstrand Corporation, Wilmington, Del. Cash register. 1,693,259; Nov. 27.
Supan, Milton C., Mineral, Calif. Adjustable post for supporting an automobile axle. 1,693,411; Nov. 27.
Sutton, Henry M. and W. L., and E. G. Steele, Dallas, Tex. Cutting finger for separating machines. 1,692,910; Nov. 27.
Swank, Arthur L., assignor to Long Manufacturing Company, Detroit, Mich. Radiator. 1,693,260; Nov. 27.
Swanson, Hugo R., Brooklyn, and K. M. Van Rensselaer, Woodmere, assignors to Triangle Kapok Machine Corporation, New York, N. Y. Mattress-filler-treating machine. 1,692,960; Nov. 27.
Swart, William J. (See Fawcett, Alvin A., assignor.)
Swartwout, Duane F., Los Angeles, Calif. Signal-lamp casing. Des. 77,045; Nov. 27.
Sweeney, James. (See Moore, Elmer E., assignor.)
Sweetland, Ernest J., Hazleton, Pa. Apparatus for filling fragile containers. 1,693,261; Nov. 27.
Tartar, Roscoe C., assignor of one-third to L. W. Sopp and one-third to J. B. Allen, Liberty, Ky. Holder for mops or brooms. 1,693,413; Nov. 27.
Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Machine for treating and sealing cans. 1,693,262; Nov. 27.
Taylor, George H., Norfolk, Va. Card clasp. 1,693,098; Nov. 27.
Taylor, George W., Evansville, Ind. Safety device for passenger coaches and other vehicles. 1,693,412; Nov. 27.
Taylor, Najah C., Staunton, Va. Metallic head for barrels. 1,693,185; Nov. 27.
Templeton, John A., assignor to Electropure Corporation, Detroit, Mich. Apparatus for pasteurizing milk. 1,692,874; Nov. 27.
Tench, Russell W. (See Clapp, G. W., Tench, and Dunham.)

Thomas, Adolph A., New York, N. Y. Radio receiving cabinet. 1,693,470; Nov. 27.
Thomas, Edward H. C., Buffalo, N. Y. Automobile key and license holder. 1,693,006; Nov. 27.
Thompson, Elmer O., Tomkinsville, N. Y., assignor to American Telephone and Telegraph Company. Alternating-current relay. 1,692,961; Nov. 27.
Thompson, Melbourne E., assignor to Trippensee Sales and Manufacturing Company, Detroit, Mich. Refrigerating apparatus. 1,693,355; Nov. 27.
Thompson, Robert J., Harrisburg, Pa. Internal-combustion engine. 1,693,186; Nov. 27.
Thompson, Russell G., assignor to North East Electric Company, Rochester, N. Y. Motor controller. 1,692,962; Nov. 27.
Thompson, William H., assignor to The H. H. Miller Industries Company, Canton, Ohio. Machine for treating materials. 1,692,963; Nov. 27.
Thompson, William H., assignor to The H. H. Miller Industries Company, Canton, Ohio. Machine for treating materials. 1,692,964; Nov. 27.
Thomson & Taylor Co., The. (See Forsberg, Albin L., assignor.)
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,692,965; Nov. 27.
Tipton, John J., Pampa, Tex. Pipe clamp. 1,693,064; Nov. 27.
Tobata Imono Kabushiki Kaisha. (See Kikuta, Tario, assignor.)
Tolliver, Charles G., Jonben, W. Va. Gun. 1,693,414; Nov. 27.
Toro Manufacturing Company. (See Clapper, John S., assignor.)
Toscano, Louis P., assignor to Fonda Container Co., Inc., Utica, N. Y. Method of and apparatus for lining closure elements. 1,693,007; Nov. 27.
Traver, Oliver C., Schenectady, N. Y., assignor to General Electric Company. Selective-circuit-controlling system. 1,693,325; Nov. 27.
Treglown, George H., and E. Carter, assignors to The Correcta Light Company Limited, London, England. Dirigible headlight mechanism. 1,693,499; Nov. 27.
Treiber Diesel Engine Corporation. (See Treiber, Otis D., assignor.)
Treiber, Otis D., Collingswood, assignor to Treiber Diesel Engine Corporation, Camden, N. J. Uniting metal objects. 1,692,966; Nov. 27.
Trent Process Corporation. (See Trent, Walter E., assignor.)
Trent, Walter E., assignor to Trent Process Corporation, New York, N. Y. Producing a fuel from pulverized coal. 1,693,356; Nov. 27.
Triangle Kapok Machine Corporation. (See Swanson, H. R., and Van Rensselaer, assignors.)
Tri-Lock Company. (See Nagin, Harry, assignor.)
Trinity Wheel Corporation. (See Baker, Frederick W., assignor.)
Trippensee Sales and Manufacturing Company. (See Thompson, Melbourne E., assignor.)
Trowbridge, Miles L. (See Brogden, E. M., and Trowbridge.)
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Resilient support for bobbins. 1,692,967; Nov. 27.
Tutt, Leo H., and E. C. Clark, Topeka, Kans. Lamp stand. Des. 77,046; Nov. 27.
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Lasher, Hiram S., assignor.)
Underwood Elliott Fisher Company. (See Stickney, Burnham C., assignor.)
Union Bank of Chicago, trustee. (See Cowles, Irving, assignor.)
Union Switch & Signal Company, The. (See Lucas, Samuel M., assignor.)
United Autographic Register Company. (See Jensen, Louis, assignor.)
United Engineering and Foundry Company. (See Johnson, Lane, assignor.)
United Shoe Machinery Corporation. (See Baxter, William C., assignor.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
U. S. Slicing Machine Company. (See Bachman, Rudolph, assignor.)
Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lubricating device for picker spindles. 1,692,968; Nov. 27.
Upham, Burt F., Brookline, Mass., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa. Mechanical movement. 1,693,415; Nov. 27.
Vale, Baldwin, assignor to R. L. Daily, San Francisco, Calif. Fish-cleaning machinery. 1,693,570; Nov. 27.
Van Buskirk, Lesher W., Clinton, N. J. Rocker bearing. 1,693,416; Nov. 27.
Van Epps, Theodore C., Los Angeles, Calif. Tide-operated air compressor. 1,693,125; Nov. 27.
Van Geem, Delmar. (See Van Geem, John, assignor.)
Van Geem, John, assignor of one-half to D. Van Geem, Erie, Pa. Bottle crate. 1,693,165; Nov. 27.
Vannini, Philipp, Zug, Switzerland, assignor to Landis & Gyr A.-G. Protective housing for electrical devices. 1,692,875; Nov. 27.
Van Rensselaer, Killaen M. (See Swanson, H. R., and Van Rensselaer.)
Van Ryan, Tony, and A. Alsaker, assignors to The Delta-Star Electric Company, Chicago, Ill. Adjustable locking bearing. 1,693,126; Nov. 27.
Van Veen, Anton, Hartford, and H. H. Fitzgerald, Berlin, assignors to The Fuller Brush Company, Hartford, Conn. Trimmer. 1,693,263; Nov. 27.
Van Voorhis, George S., Brookline, Mass. Closure means for tobacco pouches and other containers. 1,692,969; Nov. 27.
Vassar, Hervey, S., Bloomfield, N. J. Refrigeration. 1,693,357; Nov. 27.
Vaughn, Versal V., Los Angeles, Calif. Trimming tool. 1,692,911; Nov. 27.
Vedder, John W., Worcester, Mass. Stone roll. 1,693,358; Nov. 27.
Verona Tool Works. (See Hart, William F., assignor.)
Victor Manufacturing & Gasket Co. (See Oven, Frank J., assignor.)
Vierling, Frank J., assignor to C. G. Irvine, Minneapolis, Minn. Pencil. 1,693,099; Nov. 27.
Vierling, Frank J., and C. G. Irvine, Minneapolis, Minn.; said Vierling assignor to said Irvine. Pencil. 1,693,100; Nov. 27.
Vines, Albert V. (See Stewart, Benjamin F., assignor.)
Voices Incorporated. (See Evans, Fred, assignor.)
Volckening, Charles K. (See Volckening, Henry G., assignor.)
Volckening, Henry G., assignor to C. K. Volckening, Brooklyn, N. Y. Powder puff. 1,692,876; Nov. 27.
Von Lepel, Egbert, New York, N. Y. Increasing the performance of ignition systems by a booster device for ignition apparatus. 1,693,210; Nov. 27.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Lighting-fixture wall bracket. Des. 77,047; Nov. 27.
Vreeland, Frederick K., Montclair, N. J. Audiofrequency interference preventer. 1,692,877; Nov. 27.
Wachter, Charles L. (See Danziger, H. L., and Wachter.)
Wadsworth, Leslie H. (See Wurzbach, H. E., and Wadsworth.)
Wagner, Charles H., assignor to L. J. Mueller Furnace Company, Milwaukee, Wis. Furnace stack. 1,693,008; Nov. 27.
Wagner, Enos A., Detroit, Mich. Figure wheeled toy. 1,693,326; Nov. 27.
Wahl Company, The. (See Straka, John, assignor.)
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, John C., assignor to The Wahl Company, Chicago, Ill. Mechanical pencil. 1,693,580; Nov. 27.
Wait, Justin F., New York, N. Y. Filtering process. 1,693,417; Nov. 27.
Walcom, John J., Burlingame, Calif. Barber-chair seat for children. 1,693,166; Nov. 27.
Waldron, Frederic B., Prescot, assignor to Pilkington Brothers Limited, Liverpool, England. Apparatus for conveying the workholding tables of a continuously-moving series of tables. 1,693,534; Nov. 27.
Waldron, John, Corporation. (See Dunham, John R., assignor.)
Walker, Brooks, Piedmont, Calif. Parking device for automobiles. 1,693,288; Nov. 27.
Walker, Lorena B., Irving Township, Barry County, Mich. Doll head. Des. 77,048; Nov. 27.
Walker, Madame C. J., Manufacturing Company, The. (See Joyner, Marjorie S., assignor.)
Wallace, R., & Sons Mfg. Co. (See Clulee, Harry L., assignor.)
Walling, Claude L., Sherburne, N. Y. Snowplow. 1,693,187; Nov. 27.
Walter, George F., and J. M. Hothersall, Brooklyn, assignors to American Can Company, New York, N. Y. Lunch kit. 1,693,127; Nov. 27.
Waltham System, Inc. (See Folger, Henry C., assignor.)
Waner, Harry E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Vulcanizing successive separate articles and apparatus therefor. 1,693,264; Nov. 27.
Ward, James J. (See De Voe, W., and Ward.)
Ward-Love Pump Corporation. (See Johnson, Oscar W., assignor.)
Warner, Chester E., Berwyn, assignor to Benjamin Electric Mfg. Co., Chicago, Ill. Rheostat. 1,693,009; Nov. 27.
Warner, Clarence, assignor to Delco-Light Company, Dayton, Ohio. Pump. 1,693,418; Nov. 27.
Warner, Fred W., Denver, Colo. Toy fire-engine house and call box. 1,693,128; Nov. 27.
Warnick, George D., Jenkintown, Pa. Distributing system for brickyards and the like. 1,692,970; Nov. 27.
Warren, Roscoe F., Los Angeles, Calif. Rifle-stock-butt cartridge belt and countersunk rifle-sling loop. 1,693,289; Nov. 27.
Watson, James R. C., Philadelphia, Pa. Window shield. 1,693,167; Nov. 27.
Watts, Felix J., assignor to H. A. Douglas, Bronson, Mich. Locking mechanism. 1,692,878; Nov. 27.
Weaver, Ira A., Springfield, Ill. Automobile radiator flow indicator. 1,693,211; Nov. 27.
Weaver, Ira A., Springfield, Ill. Piston. 1,693,584; Nov. 27.
Wegner, Julius, New York, N. Y. Stoneworking machine. 1,693,212; Nov. 27.



Weil, Valentin. (See Darmstadt, P., Siegmann, and Weil.)
Weinberg, Lowell C., Seattle, Wash. Auto oil cleaner. 1,693,471; Nov. 27.
Weiss, Carl W., Brooklyn, N. Y. Transmission. 1,693,213; Nov. 27.
Weller, Arthur R., Spokane, Wash. Water-wave comb. 1,693,168; Nov. 27.
Wentworth, Pearl J., Fort Thomas, Ky. Heel-routing machine. 1,692,912; Nov. 27.
West, Frank R., assignor to Rice Products Inc., Detroit, Mich. Compressor structure. 1,693,010; Nov. 27.
Westinghouse Electric & Manufacturing Company. (See Aiken, Joseph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beiersdorf, Hans, assignor.)
Westinghouse Electric & Manufacturing Company. (See Cochran, Paul B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Copley, A. W., and Evans, assignors.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gano, Harlan S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gilchrest, George I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Nyman, A., and Conrad, assignors.)
Westinghouse Electric & Manufacturing Company. (See Peterson, Alfred J. A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Maurits J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmidt, Henry F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Shand, Errol B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
Wheeler, Geoffrey, London, England. Coloring the image on photographic plates, films, or the like. 1,693,500; Nov. 27.
White, Alfred H., Ann Arbor, Mich. Neutralizing the alkalinity of water. 1,693,065; Nov. 27.
White, Alfred H., Ann Arbor, Mich. Purifying the water used for steam-boiler purposes. 1,693,066; Nov. 27.
White, John S. (See Russell, R. R., and White.)
White, Rollin H., Cleveland Heights, Ohio. Lubricating system. 1,693,214; Nov. 27.
White, Rollin H., Cleveland Heights, Ohio. Propelling means for crawling tractors. 1,693,215; Nov. 27.
Whiting, William G., Vancouver, British Columbia, Canada. Mold. 1,692,913; Nov. 27.
Wichert, Alfred, Mannheim-Neuostheim, Germany, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Connection for electrical conductors. 1,693,359; Nov. 27.
Wikle, George F., Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tire-building machine. 1,693,419; Nov. 27.
Wilhelm, Theodor, Zurich, Switzerland. Stopper for bottles. 1,693,569; Nov. 27.
Willey, Alonzo, Stockton, Calif. Ground checker. 1,692,879; Nov. 27.
Williams, Herbert H., assignor to T. E. Murray, Brooklyn, N. Y. Making hubs. 1,693,067; Nov. 27.
Williams, William W., Lubbock, Tex. Cotton distributor. 1,693,188; Nov. 27.
Willis, Rex C., Seattle, Wash. Valve-seat reamer. 1,693,129; Nov. 27.
Wilson, Kentner L., Miller, S. Dak. Ice-cream container. 1,693,420; Nov. 27.
Window Glass Machine Company. (See Casselman, Elbridge J., assignor.)
Winthrop Chemical Company. (See Bockmühl, M., and Schwarz, assignors.)
Wintzer, Rudolph, assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Counterbalancing system for engines. 1,692,914; Nov. 27.
Wirth, Max, Brooklyn, N. Y. Clothes-hanging device. 1,692,880; Nov. 27.
Wolfer, Paul C., Everett, Mass. Making boots and shoes. 1,693,535; Nov. 27.
Wood, Stanley O., assignor to The Kenova Box Company, Kenova, W. Va. Crate. 1,692,915; Nov. 27.
Woodley, William T., Raleigh, N. C. Umbrella. 1,693,536; Nov. 27.
Woodruff, Asa A., Philadelphia, Pa. Ejector. 1,692,916; Nov. 27.
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Incased heating unit. 1,693,421; Nov. 27.
Woodward, Richard C., assignor to McEvoy Wireless Well Strainer Corporation, Los Angeles, Calif. Perforating casings. 1,693,011; Nov. 27.
Worthington, James P., assignor of one-half to L. J. Mildren, Ponca City, Okla. Oil-well pump. 1,693,101; Nov. 27.
Worthington, James P., assignor of one-half to L. J. Mildren, Ponca City, Okla. Oil-well pump. 1,693,102; Nov. 27.
Wright, Frank F., Aurora, Ill. Eaves trough. 1,693,103; Nov. 27.
Wright, John K., Denver, Colo. Trunk, foldable bed-supporting structure, and canopy. 1,693,012; Nov. 27.
Wright, Lewis A., Birmingham, assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 1,692,881; Nov. 27.
Wright, Robert L., deceased, Los Angeles, Calif.; W. C. Wright, administrator. Aircraft. 1,693,557; Nov. 27.
Wright, Willie C., administrator. (See Wright, Robert L.)
Wunderlich, Herbert E., St. Paul, Minn. Grain shocker. 1,692,882; Nov. 27.
Wurzbach, Hugh E., and L. H. Wadsworth, Magna, assignors to Selector Corporation, Salt Lake City, Utah. Method and apparatus for selecting metal checks. 1,693,104; Nov. 27.
Wyman-Gordon Company. (See Damerell, Mark H., assignor.)
Yale & Towne Manufacturing Company, The. (See Jackson, A. C., and Kroll, assignors.)
Young, Maynard N., Healdsburg, and D. C. Patteson, Geyserville, Calif. Casing-drilling machine. 1,693,013; Nov. 27.
Young, William B., assignor to F. H. Hague, London, England. Hinge. 1,693,169; Nov. 27.
Zahn, Karl. (See Kränzlein, G., Zahn, Ochwat, and Corell.)
Zell, David H., Inc. (See Sandkuhl, Edmund H., assignor.)
Zouri Drawn Metals Company, (See Nelson, Charles G., assignor.)

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 27TH DAY OF NOVEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acoustic device. J. Hutt and G. H. Bird. 1,693,297; Nov. 27.
Acoustical apparatus for telephonic communication. W. Rudolph. 1,692,868; Nov. 27.
Adjustab'e seat. C. A. Anderson. 1,693,427; Nov. 27.
Adjustable wrench. A. S. Pinkus. 1,693,347; Nov. 27.
Aeroplane. G. Rickelmann. 1,693,159; Nov. 27.
Air cleaner. H. A. Edgar. 1,693,479; Nov. 27.
Aircraft. R. L. Wright. 1,693,557; Nov. 27.
Aircraft propeller. E. G. McCauley. 1,693,450; Nov. 27.
Airplane-wing structure. H. J. Le Pul. 1,693,449; Nov. 27.
Airplanes, Tail skid for. C. W. Dworack. 1,693,503; Nov. 27.
Airship. A. J. Harpstrite. Des. 77,001; Nov. 27.
Aliphatic compounds, Manufacture of. W. Bader. 1,693,331; Nov. 27.
Alloy, Copper. F. Heusler. 1,692,936; Nov. 27.
Anchor clamp. K. A. Hawley. 1,693,440; Nov. 27.
Anchoring device, Vehicle. V. P. Rumely. 1,693,184; Nov. 27.
Animal-feeding device. C. Hampel. 1,693,113; Nov. 27.
Aromatic compound containing mercury in a lateral chain and making the same, Therapeutically-active. M. Bockmühl and A. Schwarz. 1,693,432; Nov. 27.
Ash receiver, Smoker's. A. Burger. 1,693,268; Nov. 27.
Audiofrequency interference preventer. F. K. Vreeland. 1,692,877; Nov. 27.
Automatic switch. J. Erickson. 1,693,027; Nov. 27.
Automobile brancard. W. F. Riemvis. 1,693,496; Nov. 27.
Automobile heater. T. Bovey. 1,693,473; Nov. 27.
Axle-housing blanks, Making. T. E. Murray, jr. 1,693,044; Nov. 27.
Backslide brake, Automatic automobile. C. W. Millard, jr. 1,692,946; Nov. 27.
Bag: *See*—
  Seed bag.
Bail. C. B. Stahl. 1,692,958; Nov. 27.
Bait, Artificial. C. Heddon. 1,692,935; Nov. 27.
Ball mill, Balanced. W. M. Barker. 1,692,974; Nov. 27.
Band or bracelet, Expansible. C. H. Kestenman. 1,693,278; Nov. 27.
Barrels, Metallic head for. N. C. Taylor. 1,693,185; Nov. 27.
Bathing apparatus, Infant's. B. H. and D. M. Kennedy. 1,693,391; Nov. 27.
Bathing appliance. B. H. and D. M. Kennedy. 1,693,390; Nov. 27.
Bathtub, Infant's. D. M. and B. H. Kennedy. 1,693,389; Nov. 27.
Battery. F. W. Hochstetter and W. Broad. 1,693,385; Nov. 27.
Bead chains, Automatic manufacturing of. K. Durr. 1,693,558; Nov. 27.
Bearing, Adjustable locking. T. Van Ryan and A. Alsaker. 1,693,126; Nov. 27.
Bearing bushing. D. O. Barrett. 1,693,333; Nov. 27.
Bearing, Rocker. L. W. Van Buskirk. 1,693,416; Nov. 27.
Bearing separators, Making. T. C. Delaval-Crow. 1,693,550; Nov. 27.
Bearings, Device for taking up looseness in. L. W. Hall. 1,693,559; Nov. 27.
Bed attachment. T. B. Smith and J. E. Bixler. 1,693,320; Nov. 27.
Bed, Closet or recess. C. Lofman. 1,693,090; Nov. 27.
Bed, Folding. F. A. Adkins and N. S. Harter. 1,693,537; Nov. 27.
Bed pivot mounting, Wall-. N. Sinclair. 1,693,000; Nov. 27.
Bell-ringing mechanism. A. L. Bauer. 1,692,808; Nov. 27.
Belt and countersunk rifle-sling loop, Rifle-stock-butt cartridge. R. F. Warren. 1,693,289; Nov. 27.
Belt for personal wear. E. S. Mix. 1,693,093; Nov. 27.
Benzoates, Manufacture of. W. S. Calcott and H. W. Daudt. 1,692,927; Nov. 27.
Binder, Loose-leaf. O. Loewenbach. 1,693,242; Nov. 27.
Bit: *See*—
  Disk-drill bit.
Blank or similar article, Box. L. H. Gebhart. Des. 76,998; Nov. 27.
Board: *See*—
  Service board.
Boat, Knockdown. I. H. Diehl. 1,693,175; Nov. 27.
Boiler grate and the like. A. H. Kemper and W. H. Durkin. 1,693,339; Nov. 27.
Boiler-tube-flowing device. J. N. Quinn. 1,693,181; Nov. 27.
Boot and shoe and making the same. S. R. Blakely. 1,693,542; Nov. 27.
Boots and shoes, Making. P. C. Wolfer. 1,693,535; Nov. 27.
Bottle. S. K. Applebaum. Des. 76,976; Nov. 27.
Bottle. J. P. Curran. Des. 76,990; Nov. 27.
Bottle, Hot-water. H. A. Bauman. Des. 76,979; Nov. 27.
Bottle stopper. T. Wilhelm. 1,693,569; Nov. 27.
Bowl or similar article, Fish. T. W. McCreary. Des. 77,018; Nov. 27.
Box: *See*—
  Lock box.
  Powder box.
Box. R. Liddell. Des. 77,013; Nov. 27.
Box. J. Malonyay. 1,693,150; Nov. 27.
Box. F. J. Schleicher. Des. 77,034; Nov. 27.
Box-covering machine. I. Hanshe. 1,692,831; Nov. 27.
Box parts, Equipment for manufacturing. H. E. Leash. 1,693,521; Nov. 27.
Boxes and the like, Making and sealing. S. Bergstein. 1,693,172; Nov. 27.
Boxes, Making paper. W. S. Cleaves. 1,693,023; Nov. 27.
Bracket plate for lighting fixtures or analogous articles. G. H. Althach. Des. 76,975; Nov. 27.
Bracing casing structures for elastic-fluid turbines and the like. C. S. Rice. 1,693,317; Nov. 27.
Braiding machine. H. G. Robinson. 1,693,121; Nov. 27.
Brake: *See*—
  Backslide brake.
  Vehicle brake.
  Friction brake.
Brake-lining composition. R. Laughlin. 1,693,394; Nov. 27.
Brake mechanism for railway cars. O. C. Duryea. 1,693,197; Nov. 27.
Bread making apparatus. G. H. Petri. 1,692,860, Nov. 27.
Brick-course gauge. J. R. Ellis. 1,693,227; Nov. 27.
Brick machine. F. Miller. 1,693,179; Nov. 27.
Broach with adjustable broaching members. W. De Voe and J. J. Ward. 1,692,977; Nov. 27.
Brooder, Chick. E. M. Pierce. 1,693,049; Nov. 27.
Brush. E. F. Astley. 1,693,329; Nov. 27.
Brush. A. V. and J. T. Hart. 1,693,384; Nov. 27.
Brush for wool-combing machines, Dabbing. P. Henry. 1,692,836; Nov. 27.
Brush, Fountain. E. F. Astley. 1,693,330; Nov. 27.
Brush, Fountain. T. Sandretto. 1,693,161; Nov. 27.
Brush, Motor-driven rotary tooth. G. C. Farmer. 1,692,980; Nov. 27.
Bumper bar and carrier for motor vehicles, Combined. C. H. Henderson. 1,693,202; Nov. 27.
Bumper clamp. H. S. Jandus. 1,693,513; Nov. 27.
Bumperette. F. J. Kerber. 1,692,941; Nov. 27.
Burner: *See*—
  Fuel burner.
  Hydrocarbon burner.
Button. F. Batovec, sr. 1,693,541; Nov. 27.
Cabinet, Dispensing. B. G. Patterson. 1,693,458; Nov. 27.
Cabinet, Radio receiving. A. A. Thomas. 1,693,470; Nov. 27.
Cabinet, Refrigerating. H. C. Folger. 1,693,376; Nov. 27.
Cabinet, Towel. F. M. Steiner. Des. 77,044; Nov. 27.
Cable joints or splices for underground systems, Forming high-tension. W. E. Boyle and H. R. Searing. 1,693,365; Nov 27.
Cage, Bird. N. W. Hendryx. 1,692,835; Nov. 27.
Can opener. H. Bruneau. 1,693,020; Nov. 27.
Candle-socket mounting. D. D. Gordon and W. Lindsay. 1,693,383; Nov. 27.
Candy or similar article. C. M. Baldwin. Des. 76,977; Nov 27.
Canopy or fixture securing device. G. N. Littleton. 1,693,396; Nov. 27.
Cap attachment, Removable. J. J. McGrath. 1,692,944; Nov. 27.
Cap, Cover-all. A. Meldrum. 1,693,455; Nov. 27.
Car construction. O. C. Duryea. 1,693,193–6; Nov. 27.
Car or exerciser, Propulsive amusement. H. F. Bartley. 1,692,803; Nov. 27.
Car wheel. J. E. Hale. 1,693,576; Nov. 27.
Carburetor, Floating-venturi. C. L. Rayfield. 1,693,350; Nov. 27.
Card clasp. G. H. Taylor. 1,693,098; Nov. 27.
Card, Display. F. H. Mix. 1,693,246; Nov. 27.
Cards, Pack of playing. J. D. Niederlitz. 1,693,525; Nov. 27.
Carrier: *See*—
  Overhead haulage carrier.
Carrier for pneumatic-dispatch systems. W. H. Dinspel. 1,692,820; Nov. 27.
Carton or similar article. W. W. Fawcett. Des. 76,992; Nov. 27.
Case: *See*—
  Cigarette case.
  Filing case.
Cash register. W. J. Kreider. 1,693,279; Nov. 27.
Cash register. O. J. Sundstrand. 1,693,259; Nov. 27.
Casing for electrical apparatus. A. O. Austin. 1,693,265; Nov. 27.





Casing for electrical apparatus. A. O. Austin. 1,693,430; Nov. 27.
Casting. A. O. Austin. 1,693,429; Nov. 27.
Casting and front draft lug, Combined striking. C. M. Hannaford. 1,693,295; Nov. 27.
Casting apparatus for first-quality and refined steels. F. Geissler. 1,693,076; Nov. 27.
Casting metal bodies, Apparatus for. A. E. Mix. 1,693,283; Nov. 27.
Catch, Lever. J. B. Russ. Des. 77,031; Nov. 27.
Cellulose product and producing such product. W. W. Carter. 1,693,573; Nov. 27.
Cementing compound. J. Mayes. 1,693,488; Nov. 27.
Centrifugal machine. W. E. Bock. 1,692,804; Nov. 27.
Chain, Bracelet. S. O. Bigney. 1,692,809; Nov. 27.
Chain, Drive. E. F. Behning. 1,693,431; Nov. 27.
Chain element for pattern mechanism. E. R. Holmes. 1,692,989; Nov. 27.
Chair: *See*—
  Dining chair.
  Folding chair.
Chair seat for children, Barber-. J. J. Walcom. 1,693,166; Nov. 27.
Chandelier. C. W. Logan. Des. 77,012; Nov. 27.
Chart, Optical test. H. Clement and E. L. Ryer. 1,692,920; Nov. 27.
Chart, Sales. J. F. Brown. 1,692,886; Nov. 27.
Chassis of motor vehicles, Lowering the height of the. E. D. Morton and J. Brett. 1,693,490; Nov. 27.
Cigarette case. R. L. Laird. 1,693,086; Nov. 27.
Circuit-breaker system, Automatic reclosing. A. E. Anderson. 1,693,328; Nov. 27.
Circuit-controlling system, Selective-. O. C. Traver. 1,693,325; Nov. 27.
Circuit, Cord. R. F. Gould. 1,693,029; Nov. 27.
Circuit, Resistor-cell. C. F. Jenkins. 1,693,509; Nov. 27.
Circuit, Vacuum-tube. D. C. Prince. 1,693,316; Nov. 27.
Clamp: *See*—
  Anchor clamp.
  Pipe clamp.
  Bumper clamp.
  Rope clamp.
  Form clamp.
Clamping clip for braces, sock suspenders and such like, Gradual-. P. Allenic. 1,692,917; Nov. 27.
Clamping means for bedsteads, Cover-. W. E. Chapman. 1,693,022; Nov. 27.
Clasp: *See*—
  Card clasp.
Clay articles, Process of and apparatus for making. E. J. Casselman. 1,692,887; Nov. 27.
Cleaner: *See*—
  Air cleaner.
  Vacuum cleaner.
  Oil cleaner.
Cleaning device for use on motor cars, Shoe-. A. Macdonald. 1,693,305; Nov. 27.
Cleaning device, Window. A. J. Devenere. 1,693,336; Nov. 27.
Cleaning implement, Ear-. R. Etling. 1,693,581; Nov. 27.
Cleaning tubes or the like, Device for. A. Brendlin. 1,693,134; Nov. 27.
Cleaning wells, Apparatus for. J. H. Sanford, jr. 1,693,405; Nov. 27.
Closure elements, Method of and apparatus for lining. L. P. Toscano. 1,693,007; Nov. 27.
Closure for containers. A. F. McDonnell. 1,693,117; Nov. 27.
Closure lock. M. H. Borzin and A. Mitru. 1,693,544; Nov. 27.
Closure means for tobacco pounches and other containers. G. S. Van Voorhis. 1,692,969; Nov. 27.
Clothes-hanging device. M. Wirth. 1,692,880; Nov. 27.
Coat. E. Carney. Des. 76,981; Nov. 27.
Coin bank. E. H. Sandkuhl. 1,93,351; Nov. 27.
Coloring matters, Production of anthraquinone. W. M. Murch. 1,692,854; Nov. 27.
Coloring the image on photographic plates, films, or the like. G. Wheeler. 1,693,500; Nov. 27.
Comb: *See*—
  Reservoir comb.
  Water-wave comb.
Composing stick. W. C. Bignold. 1,693,105; Nov. 27.
Compressor. C. Steenstrup. 1,693,323; Nov. 27.
Compressor plant, Portable. G. Rothmann. 1,693,183; Nov. 27.
Compressor structure. F. R. West. 1,693,010; Nov. 27.
Compressor, Tide-operated air. T. C. Van Epps. 1,693,125; Nov. 27.
Concrete sleeper, Ferroreenforced. K. Fukagawa. 1,692,933; Nov. 27.
Condensation products of phenols with aldehydes, Production of the. G. Petroff. 1,693,461; Nov. 27.
Condenser. G. H. Brown. 1,693,173; Nov. 27.
Condenser and adjusting same, Gang. E. S. Pridham and D. K. Lippincott. 1,693,286; Nov. 27.
Conductor, Leading-in. S. Ruben. 1,692,998; Nov. 27.
Cone belt shifter. N. E. GoodActive. 1,692,829; Nov. 27.
Connection for electrical conductors. A. Wichert. 1,693,359; Nov. 27.
Connection for relatively movable members, Yielding. E. R. Gurney. Re17,146; Nov. 27.
Container. P. Pick. 1,693,251; Nov. 27.
Container and manufacture thereof. A. L. Forsberg. 1,693,291; Nov. 27.
Container for dining-table ware, Sanitary dispensing. W. R. Gruber. 1,693,231; Nov. 27.
Container, Ice-cream. K. L. Wilson. 1,693,420; Nov. 27.
Container, Milk-bottle. T. L. Cavalli. 1,693,434; Nov. 27.
Control for sheet-material-handling machinery, Automatic. L. J. Elsas and E. M. Jones. 1,693,272; Nov. 27.
Control system. W. N. Gittings. 1,693,293; Nov. 27.
Controlling mechanism for Jacquard looms, Box-. E. R. Holmes. 1,692,988; Nov. 27.
Conveyer. G. Nelson. 1,693,208; Nov. 27.
Conveyer for heating furnaces. D. L. Summey. 1,693,568; Nov. 27.
Conveyer port. J. J. Mojonnier. 1,692,851; Nov. 27.
Conveying apparatus. M. J. Anderson. 1,693,014; Nov. 27.
Conveying the workholding tables of a continuously-moving series of tables, Apparatus for. F. B. Waldron. 1,693,534; Nov. 27.
Core dip, System of determining. J. E. Brantly. 1,692,885; Nov. 27.
Cot, Folding. F. A. Adkins. 1,693,423; Nov. 27.
Cotton distributor. W. W. Williams. 1,693,188; Nov. 27.
Counterbalancing system for engines. R. Wintzer. 1,692,914; Nov. 27.
Coupling: *See*—
  Flexible coupling.
  Hose coupling.
Coupling device. A. A. Goldstein. 1,693,077; Nov. 27.
Crate. S. O. Wood. 1,692,915; Nov. 27.
Crate, Bottle. J. Van Geem. 1,693,165; Nov. 27.
Crushing, grinding, and refining machine. S. Bramley-Moore. 1,692,884; Nov. 27.
Crystalline dextrose, High-purity. W. B. Newkirk. 1,693,118; Nov. 27.
Cultivator-shovel structure. C. Osmundson. 1,693,047; Nov. 27.
Cup and the like, Drinking. A. S. Pinckney. 1,692,951; Nov. 27.
Cutter head. W. Jones. 1,693,445; Nov. 27.
Cutting device. H. D. Stevens. 1,693,531; Nov. 27.
Cutting finger for separating machines, H. M. Sutton and W. L. and E. G. Steele. 1,692,910; Nov. 27.
Cutting machine, Meat-. E. W. Knowlton. 1,692,844; Nov. 27.
Cylinder of an internal-combustion engine. R. Kondo. 1,693,520; Nov. 27.
Cylinder pawl for jacquards. J. B. Olch. 1,692,949; Nov. 27.
Damper, Thermostatically-controlled. I. E. Smith. 1,693,060; Nov. 27.
Dasher for ice-cream freezers. R. B. Bagby. 1,693,016; Nov. 27.
Decorating articles. E. K. Baker. 1,692,920; Nov. 27.
Degreasing raw wool. R. Brauckmeyer. 1,693,106; Nov. 27.
Dehydrating tar, Apparatus for. R. Crilly. 1,693,549; Nov. 27.
Denture, partial denture, and making same. G. W. Clapp, R. W. Tench, and L. W. Dunham. 1,692,928; Nov. 27.
Deodorizer, Garment. P. Merkowitz. 1,693,308; Nov. 27.
Derrick. T. F. Campbell. 1,693,107; Nov. 27.
Designs, Making embossed. B. G. Klein. 1,693,561; Nov. 27.
Detector to stop loom, Weft. V. H. Jennings. 1,692,992; Nov. 27.
Device for holding and applying cosmetics and the like. P. Mayer. 1,693,151; Nov. 27.
Diagnostic instrument. W. J. Cameron. 1,693,021; Nov. 27.
Diaphragms, Mounting pressure-gauge. E. A. Ileman. 1,693,235; Nov. 27.
Dibenzpyrenequinone and preparing the same, Derivatives of. G. Kränzlein, K. Zahn, P. Ochwat, and M. Corell. 1,693,447; Nov. 27.
Die and method of drawing shapes. J. T. Moltrup. 1,692,902; Nov. 27.
Die-casting apparatus. M. Stern. 1,693,164; Nov. 27.
Differential movement and tachometer embodiment, Mechanical. G. P. Luckey. 1,693,485; Nov. 27.
Dilator, Teat. C. Broersma. 1,693,545; Nov. 27.
Dining chair. S. Jaffe. 1,693,512; Nov. 27.
Discharging chlorine from tank cars, Method and device for. W. B. Leach, jr. 1,692,847; Nov. 27.
Dish, Covered. J. V. Goddard. Des. 76,999; Nov. 27.
Dish or similar article, Covered. T. C. Merriman. Des. 77,021; Nov. 27.
Disk drill bit. W. C. Bailey. 1,692,919; Nov. 27.
Disk sanding mechanism. E. C. Schacht. 1,693,163; Nov. 27.
Display device, Oil-. H. M. Boe. 1,693,019; Nov. 27.
Display fixture, Advertising. J. P. Riley. Des. 77,026; Nov. 27.
Display frame. C. I. Siegel. 1,692,999; Nov. 27.
Distributing device for solid soap. I. Gonyk. 1,693,480; Nov. 27.
Distributing system for brickyards and the like. G. D. Warnick. 1,692,970; Nov. 27.
Distribution system. A. W. Copley and R. D. Evans. 1,693,574; Nov. 27.
Distributor. H. D. Currier. 1,692,819; Nov. 27.
Doll. F. J. Raufus. 1,693,157; Nov. 27.
Doll head. L. B. Walker. Des. 77,048; Nov. 27.
Doll, Nonbreakable dressed. L. E. and M. E. Howard. 1,692,897; Nov. 27.
Doorcheck and door bumper, Combined. O. R. Reinicke and C. R. Leeman, jr. 1,693,158; Nov. 27.
Door lock, Bar. S. A. Harper. 1,693,481; Nov. 27.
Door-operating mechanism. P. R. Dobson. 1,692,821; Nov. 27.

Door-securing mechanism. E. E. Gage. 1,693,028; Nov. 27.
Drapery fixture, Composite. C. W. Kirsch. 1,693,082; Nov. 27.
Drawbar, Harrow. G. W. Schulz. 1,693,467; Nov. 27.
Drawing machine for drawing fine wires from suitable material, Multiple-wire-. P. Darmstadt, W. Stegmann, and V. Weil. 1,693,224; Nov. 27.
Dress. M. C. Schmolze. Des. 77,035–7; Nov. 27.
Dress. M. Siegel. Des. 77,040; Nov. 27.
Drill: *See*—
Rock drill. Rotary drill.
Drilling machine arm, Multiple-spindle. A. A. Riddell. 1,693,253; Nov. 27.
Drilling machine, Casing-. M. N. Young and D. C. Patteson. 1,693,013; Nov. 27.
Drying machines and the like, Drive for paper-. B. A. Malkin. 1,692,901; Nov. 27.
Dumping body. F. Biszantz. 1,693,543; Nov. 27.
Dustpan. B. McGillian. 1,693,489; Nov. 27.
Dyestuffs, Production of metallic compounds of. H. Kralkalla and W. Müller. 1,693,448; Nov. 27.
Edge finishing. F. C. Simmons. 1,692,871; Nov. 27.
Ejector. A. A. Woodruff. 1,692,916; Nov. 27.
Electric current, Eliminating fluctuations in. C. Spaeth. 1,693,258; Nov. 27.
Electric heater. P. R. G. Biedermann. 1,693,133; Nov. 27.
Electric motor. C. A. Guterres. 1,693,294; Nov. 27.
Electrical control device. E. J. Murphy. 1,693,313; Nov. 27.
Electromagnet. A. D. Cardwell. 1,693,135; Nov. 27.
Electron-discharge tube. C. Spaeth. 1,693,321; Nov. 27.
Elevator support. F. Henderson. 1,693,552; Nov. 27.
Emblem, Automobile radiator. E. W. Ferguson. Des. 76,993; Nov. 27.
Enamel-coated article. J. A. Anderson. 1,693,130; Nov. 27.
Engine: *See*—
Internal-combustion engine.
Engine intakes, Auxiliary air and drainage device for gasoline-. E. M. Satterlee. 1,693,162; Nov. 27.
Engine starter. W. L. McGrath. 1,693,342; Nov. 27.
Escape device for sunken submarines. S. G. Harrington. 1,692,894; Nov. 27.
Explosion motor. O. A. Donath. 1,693,073; Nov. 27.
Extracting gas and oil from waste, Apparatus for. A. Naert. 1,693,456; Nov. 27.
Fabric: *See*—
Pile fabric.
Fabric frame and fabric-mounting apparatus for embroidery machines. P. O. Mothes. 1,693,562; Nov. 27.
Fastener. G. Johnson. 1,693,514; Nov. 27.
Fastener, Button. C. H. Miller. 1,693,310; Nov. 27.
Fastener for conveyers, Belt. E. C. Morgan. 1,693,041; Nov. 27.
Fastener for the mouth frames of hand bags. C. J. G. Schwarz. 1,693,056; Nov. 27.
Fastener, Separable. D. Dyresen. 1,693,142–3; Nov. 27.
Feed mechanism for machine guns, Ammunition-. C. L. Paulus and R. Kauch. 1,693,460; Nov. 27.
Feeder, Poultry. H. S. Barnes. 1,692,807; Nov. 27.
Feeding device. J. O. Deegan. 1,693,371; Nov. 27.
Feeding mechanism for sewing machines. R. Mundlos. 1,693,524; Nov. 27.
Filing case, Folding storage. F. H. Jones. 1,692,940; Nov. 27.
Filing device. H. S. Riederer and A. Paulson. 1,692,865; Nov. 27.
Filling fragile containers, Apparatus for. E. J. Sweetland. 1,693,261; Nov. 27.
Film reel. J. La Via. 1,692,846; Nov. 27.
Filter, Air. W. M. Reed and C. P. Hegan. 1,693,585; Nov. 27.
Filter for engines, Oil. F. C. Morris. 1,692,852; Nov. 27.
Filter or strainer and making the same. W. H. Furness. 1,692,824; Nov. 27.
Filtering materials, Apparatus for revivification of. L. W. Naylor. 1,693,207; Nov. 27.
Filtering materials, Revivification of. L. W. Naylor. 1,693,206; Nov. 27.
Filtering process. J. F. Walt. 1,693,417; Nov. 27.
Fish-cleaning machinery. B. Vale. 1,693,570; Nov. 27.
Fish scaler. C. T. Pflueger. 1,693,566; Nov. 27.
Fish-scaling machine. E. A. Gallison. 1,692,984; Nov. 27.
Flatiron, Automatic current-cut-out electric. J. J. Shea. 1,693,256; Nov. 27.
Flexible coupling. J. R. Dunham. 1,692,978; Nov. 27.
Flitting device. C. F. Poole. 1,692,861; Nov. 27.
Floor, Soundproofed shock-absorbed laundry. E. N. Murphy. 1,692,855; Nov. 27.
Flow indicator, Automobile radiator. I. A. Weaver. 1,693,211; Nov. 27.
Fluid indicator. H. Hastings. 1,693,031; Nov. 27.
Folding chair. W. C. Rastetter. 1,693,349; Nov. 27.
Folding hem adjuster. L. A. and V. D. Hanes. 1,693,176; Nov. 27.
Foot demonstrator. J. Lelyveld. 1,692,943; Nov. 27.
Form clamp. H. H. Lampert. 1,693,239–41; Nov. 27.
Frame: *See*—
Display frame. Heddle frame.
Frankfurt machine. T. C. Russell. 1,692,956; Nov. 27.
Friction brake, Automobile. J. Hopkins. 1,693,444; Nov. 27.
Friction drive. R. W. Stem. 1,692,909; Nov. 27.
Fuel burner, Liquid-. V. Mulholland. 1,692,853; Nov. 27.
Fuel from pulverized coal, Producing a. W. E. Trent. 1,693,356; Nov. 27.
Fuel-injection mechanism. C. P. Clark and C. A. Bjornnson. 1,693,546; Nov. 27.
Fuel-supply system. J. A. Heany. 1,693,114; Nov. 27.
Furnace: *See*—
Mechanical furnace.
Furnace. O. A. Colby. 1,693,370; Nov. 27.
Furnace. D. S. Richardson. 1,692,953; Nov. 27.
Furnace stack. C. H. Wagner. 1,693,008; Nov. 27.
Furnace wall, Air-cooled. R. A. Foresman. 1,693,378; Nov. 27.
Furnace wall and brick therefor. O. Nygaard. 1,693,400; Nov. 27.
Fuse, Mechanical time. O. Junghans. 1,693,516; Nov. 27.
Game. E. H. Lee. 1,693,116; Nov. 27.
Game apparatus. F. L. Burt. 1,693,474; Nov. 27.
Game board. J. G. Culligan. Des. 76,989; Nov. 27.
Game, Football. A. Hustwick. 1,693,277; Nov. 27.
Garment, Convertible. R. J. Quantz. 1,693,464; Nov. 27.
Gas producer. P. Jaworski. 1,693,483; Nov. 27.
Gases from gaseous mixtures, Separation of. M. H. Roberts. 1,693,052; Nov. 27.
Gasket, Metallic. F. J. Oven. 1,692,857; Nov. 27.
Gauge: *See*—
Brick-course gauge.
Gear-changing means, Automatic motor. A. C. Peterson. 1,693,346; Nov. 27.
Gear shift, Automatic. A. H. Jessen. 1,693,080; Nov. 27.
Gearing, Speed-change transmission. E. W. Jackson. 1,693,079; Nov. 27.
Glass-forming machine. A. N. Cramer. 1,693,069; Nov. 27.
Glass, Manufacture of. E. T. Brown. 1,692,813; Nov. 27.
Glass-working apparatus. K. E. Peller. 1,692,858; Nov. 27.
Glazing process, Ceramic-. W. O. Prouty. 1,693,252; Nov. 27.
Globe and traffic signal, Combined light. R. J. Lackner. Des. 77,010; Nov. 27.
Glove. J. Steinert. 1,692,959; Nov. 27.
Goggles, Carrying device for. J. T. Fisher. 1,693,505; Nov. 27.
Golf balls and articles produced therefrom, Making. A. E. Penfold. 1,693,315; Nov. 27.
Golf green, Fireside. C. A. Mellicke. Des. 77,020; Nov. 27.
Grader, Prune. P. Mothorn. 1,693,042; Nov. 27.
Gramophones and the like, Driving mechanism for. E. L. Rankin. 1,693,495; Nov. 27.
Grating structure. H. Nagin. 1,693,399; Nov. 27.
Grave cover or similar article. L. E. Sarber. 77,033; Nov. 27.
Grave lining and covering device. G. A. Stark. 1,693,062–3; Nov. 27.
Gravel washer. C. F. Smith. 1,693,001; Nov. 27.
Grinder, Valve. T. J. Fegley and G. O. Leopold. 1,693,437; Nov. 27.
Grinding apparatus, Roll-. L. R. Heim. 1,692,833; Nov. 27.
Grinding, refining, and mixing machine. S. Bramley-Moore. 1,692,903; Nov. 27.
Gripping pipes, rods, or the like, Apparatus for. M. B. Davis. 1,693,502; Nov. 27.
Ground articles, Art and apparatus for producing. L. R. Heim. 1,692,834; Nov. 27.
Ground checker. A. Willey. 1,692,879; Nov. 27.
Guard, Hose-nozzle. C. L. Paulus and R. Kauch. 1,693,459; Nov. 27.
Guide, Conveyer-belt. W. H. Harrison. 1,692,832; Nov. 27.
Guide for meat slicers. J. S. Blaikie. 1,692,810; Nov. 27.
Gun. J. J. Murphy. 1,692,995; Nov. 27.
Gun. C. G. Tolliver. 1,693,414; Nov. 27.
Hair waver. M. C. Steichen. 1,693,005; Nov. 27.
Hammer, Rotary pivoted. H. J. Shelton. 1,693,058; Nov. 27.
Hammer, Tuning. W. Frauenberger. 1,693,292; Nov. 27.
Hammock. P. J. Murphy and G. B. Sontag. 1,693,564; Nov. 27.
Handle: *See*—
Paper-bag handle. Tool handle.
Handling loose material, Apparatus for. S. W. Farnham. 1,692,823; Nov. 27.
Harvesting apparatus, Corn-. M. E. Kraxberger. 1,693,085; Nov. 27.
Harvesting machine. P. Ketelsen. 1,692,899; Nov. 27.
Headlight. S. T. Beare. 1,693,334; Nov. 27.
Headlight, Dirigible. R. Ferrero. 1,693,375; Nov. 27.
Headlight mechanism, Dirigible. G. H. Treglown and E. Carter. 1,693,499; Nov. 27.
Heat-responsive material. P. B. Cochran. 1,693,369; Nov. 27.
Heat-treatment apparatus. G. Keller. 1,693,388; Nov. 27.
Heat unit for internal-combustion engines, Vaporizing. W. G. Schnee. 1,692,906; Nov. 27.
Heater: *See*—
Automobile heater. Oil heater.
Electric heater. Water heater.
Heater. T. E. Murray. 1,693,043; Nov. 27.
Heater for percolators and the like, Electric. A. and M. Bersted. 1,693,364; Nov. 27.
Heating and forming means, Electrical. A. G. Dannell. 1,693,271; Nov. 27.
Heating apparatus and forming a combustible mixture, Fluid-fuel. H. F. Rodier. 1,693,053; Nov. 27.





Heating device. R. Rochester, jr. 1,693,182; Nov. 27.
Heating unit, Incased. J. C. Woodson. 1,693,421; Nov. 27.
Heddle frame. J. J. Kaufmann. 1,693,236; Nov. 27.
Heel and arch support. H. H. Ahern. 1,693,424; Nov. 27.
Heel base for shoes. C. O. Ryberg. 1,693,160; Nov. 27.
Heel-routing machine. P. J. Wentworth. 1,692,912; Nov. 27.
Heel, Shoe. L. M. Oakley. Des. 77,025; Nov. 27.
Hinge. C. S. Owens. 1,693,526; Nov. 27.
Hinge. J. Soss. 1,693,004; Nov. 27.
Hinge. W. B. Young. 1,693,169; Nov. 27.
Holder, Adjustable cigar and cigarette. M. Alland. 1,692,971; Nov. 27.
Holder, Automobile key and license. E. H. C. Thomas. 1,693,006; Nov. 27.
Holder, Billiard-cue-tip. R. E. Marley. 1,693,037; Nov. 27.
Holder, Brush. M. J. Stanton. 1,693,322; Nov. 27.
Holder, Burner. H. F. Brown. 1,692,924–5; Nov. 27.
Holder, Curtain-rod and shade. E. E. Moore. 1,693,312; Nov. 27.
Holder, Flower. R. E. Denman. 1,693,372; Nov. 27.
Holder for lighting fixtures, Screwless. E. F. Guth. 1,693,232; Nov. 27.
Holder for mops or brooms. R. C. Tartar. 1,693,413; Nov. 27.
Holder for shipping boxes, Shade. R. Fair. 1,693,199; Nov. 27.
Holder, Hat. F. Loyer and M. Gosselin. 1,693,341; Nov. 27.
Holder, Liquid. G. T. Keeler. 1,693,146; Nov. 27.
Holder, Magazine and book. C. R. Snow and D. J. Flood. 1,693,529; Nov. 27.
Holder, Radio mast. E. Ingham. 1,693,298; Nov. 27.
Holder, Toilet-paper. A. B. Honschopp. 1,693,338; Nov. 27.
Hose coupling. G. H. Callahan. 1,693,367; Nov. 27.
Hosiery. R. Friedrich. Des. 76,997; Nov. 27.
Hosiery. F. H. L. Luebbe. Des. 77,017; Nov. 27.
Hosiery. H. H. Ducat. 1,693,141; Nov. 27.
Housing construction, Rear-axle-. H. Ford. 1,692,932; Nov. 27.
Housing for electrical devices, Protective. P. Vannini. 1,692,875; Nov. 27.
Hub, Automobile steering-wheel. J. A. Murphy. 1,693,153; Nov. 27.
Hubs, Making. H. H. Williams. 1,693,067; Nov. 27.
Humidifier. E. A. Chamberlin. 1,692,816; Nov. 27.
Humidifier. E. A. Chamberlin. 1,692,816; Nov. 27. 1,693,088; Nov. 27.
Hydrant. T. and R. H. Ritchie. 1,693,095; Nov. 27.
Hydrocarbon burner. A. E. Schein. 1,693,054; Nov. 27.
Hydrogen chloride and sodium sulphate, Making. C. S. Benjamin. 1,693,217; Nov. 27.
Hydrogen, Manufacture of. F. C. Blake. 1,692,811; Nov. 27.
Ignition systems by a booster device for ignition apparatus, Increasing the performance of. E. Von Lepel. 1,693,210; Nov. 27.
Indicator: *See*—
Flow indicator. Speed indicator.
Fluid indicator. Temperature indicator.
Indicator for Jacquard looms, Box. H. S. Favor and G. J. Pfeiffer. 1,692,981; Nov. 27.
Injector. J. M. Gonzáles. 1,693,201; Nov. 27.
Insulator. G. I. Gilchrest. 1,693,380–1; Nov. 27.
Internal-combustion engine. E. E. Clement. 1,693,547; Nov. 27.
Internal-combustion engine. E. Just. 1,692,840; Nov. 27.
Internal-combustion engine. G. A. Kolb. 1,692,845; Nov. 27.
Internal-combustion engine. R. J. Thompson. 1,693,186; Nov. 27.
Internal-combustion engine, Double-acting two-stroke-cycle. G. Drummond. 1,693,024; Nov. 27.
Iodates, Production of. F. A. Henglein. 1,693,441; Nov. 27.
Iron from white cast iron, Manufacturing black-heart malleable cast. T. Kikuta. 1,692,842; Nov. 27.
Joint: *See*—
Roof joint.
Kit, Lunch. G. F. Walter and J. M. Hothersall. 1,693,127; Nov. 27.
Kneading machine, Dough-. F. Köchy. 1,693,582; Nov. 27.
Knitting machine. J. McNamee. 1,692,945; Nov. 27.
Label for wound or rolled fabrics. G. E. Bennett. 1,693,363; Nov. 27.
Lace. R. A. Hollingworth. Des. 77,003–4; Nov. 27.
Lace edging, Embroidered. H. Schwarber. Des. 77,038–9; Nov. 27.
Lamp base. C. F. Stallbaum. Des. 77,042–3; Nov. 27.
Lamp, Carbide. W. Prockter. 1,693,463; Nov. 27.
Lamp casing, Signal-. D. F. Swartwout. Des. 77,045; Nov. 27.
Lamp, Cluster. A. R. Kanné. Des. 77,008; Nov. 27.
Lamp, Incandescent. F. C. McElroy. 1,693,453; Nov. 27.
Lamp or article of analogous nature, Table. P. Cricchio. Des. 76,987; Nov. 27.
Lamp stand. L. H. Tutt. Des. 77,046; Nov. 27.
Lamps, Support for. W. L. Laib. 1,693,238; Nov. 27.
Lead, Making tetra-alkyl. W. S. Calcott and H. W. Daudt. 1,692,926; Nov. 27.
Lens. F. G. Babcock. 1,692,973; Nov. 27.
Leveling mechanism for looms, Harness-. E. R. Holmes. 1,692,990; Nov. 27.
Lifting device. M. Falco. 1,693,074; Nov. 27.
Lighters, Body for cigar and cigarette. R. S. Knapp. Des. 77,009; Nov. 27.
Lighting fixture and the like. D. Holt. 1,693,443; Nov. 27.
Lighting-fixture backplate or analogous article. J. Grossman. Des. 77,000; Nov. 27.
Lighting-fixture plate or analogous article. N. Lipsky. Des. 76,974; Nov. 27.
Lighting-fixture plate or analogous article. N. Lipsky. Des. 77,014; Nov. 27.
Lighting-fixture streamer or article of analogous nature. N. Lipsky. Des. 77,015; Nov. 27.
Lighting fixture wall bracket or article of similar nature. N. Lipsky. Des. 77,016; Nov. 27.
Limb, Artificial. I. P. Boggs. 1,692,975; Nov. 27.
Limbs and similar devices, Manufacturing artificial. J. Loth. 1,693,091; Nov. 27.
Lining tubular containers. E. C. Hardy and P. J. Morales. 1,692,986; Nov. 27.
Link mechanism for circuit breakers. D. Ronnberg and A. Rooth. 1,692,867; Nov. 27.
Loading and conveying apparatus for coal mines. E. C. Morgan. 1,693,344; Nov. 27.
Lock: *See*—
Closure lock. Door lock.
Lock. F. Conly. 1,693,583; Nov. 27.
Lock. W. Ganz. 1,692,825–6; Nov. 27.
Lock box, Secret-. T. Meider. 1,693,038; Nov. 27.
Locking bolt and opening and closing device for car doors, Combination. J. H. Simonton. 1,692,908; Nov. 27.
Locking mechanism. F. J. Watts. 1,692,878; Nov. 27.
Locomotive. H. S. Burnham. 1,693,220; Nov. 27.
Locomotive, Electric. W. W. Sloane. 1,692,873; Nov. 27.
Looms, Stop motion for. W. E. Smith. 1,693,498; Nov. 27.
Lubricating apparatus. W. H. Pierce. 1,693,565; Nov. 27.
Lubricating apparatus. J. N. Robin. 1,693,567; Nov. 27.
Lubricating device for picker spindles. K. J. Unwin. 1,692,968; Nov. 27.
Lubricating system. R. H. White. 1,693,214; Nov. 27.
Lubricator for rock drills. A. H. Katterjohn. 1,693,203; Nov. 27.
Machine for cutting off stock. T. A. Beaney. 1,693,361; Nov. 27.
Machine for distributing concrete, H. Everist. 1,693,198; Nov. 27.
Machine for making paper boxes. H. Carle. 1,693,136; Nov. 27.
Machine for ramming paving stones and the like. E. H. Carlsson. 1,693,221; Nov. 27.
Machine for scaling fish. E. A. Gallison. 1,692,985; Nov. 27.
Machine for testing typewriting ribbons, carbon paper, etc. W. P. Pembroke. 1,693,494; Nov. 27.
Machine for treating and sealing cans. B. E. Taylor. 1,693,262; Nov. 27.
Machine for treating materials. H. H. Miller. 1,692,947; Nov. 27.
Machine for use in the manufacture of shoes. F. Hume. 1,693,276; Nov. 27.
Machine for washing and drying sheet-metal boxes or cans. G. S. Blakeslee. 1,692,812; Nov. 27.
Magneto construction. E. D. Perry. 1,693,345; Nov. 27.
Mail bags from railway cars, Device for delivering. E. E. and J. E. Edenharder. 1,692,979; Nov. 27.
Manhole cover. L. Benedetti. 1,693,190; Nov. 27.
Marker, Bird-house road. R. R. Hartman. Des. 77,002; Nov. 27.
Marker, Memorial grave. F. F. Fischer. Des. 76,994; Nov. 27.
Mask for facial treatments. C. McCune. 1,693,452; Nov. 27.
Massage instrument. L. Casper. 1,693,137; Nov. 27.
Massaging machine. F. W. Knott and B. Garlius. 1,693,300; Nov. 27.
Mast, Airship mooring. M. Q. Corbett. 1,693,476; Nov. 27.
Mechanical furnace. O. H. Buse. 1,693,366; Nov. 27.
Mechanical movement. B. F. Upham. 1,693,415; Nov. 27.
Metal checks, Method and apparatus for selecting. H. E. Wurzbach and L. H. Wadsworth. 1,693,104; Nov. 27.
Metal objects, Uniting. O. D. Treiber. 1,692,966; Nov. 27.
Metaldehyde, Production of. E. Lüscher and H. Steiger. 1,693,204; Nov. 27.
Microphone. J. E. Aiken. 1,693,425; Nov. 27.
Mill: *See*—
Ball mill. Rolling mill.
Ring mill.
Mining and loading machine and method. E. C. Morgan. 1,693,343; Nov. 27.
Mining machine. T. E. Pray. 1,692,862–3; Nov. 27.
Mining system and apparatus. E. C. Morgan. 1,693,040; Nov. 27.
Mixer. S. Alsop. 1,693,170; Nov. 27.
Mold: *See*—
Type-casting mold.
Mold. W. G. Whiting. 1,692,913; Nov. 27.
Mold for rubber boots. A. A. Glidden, H. G. Ellis, and H. L. Davis. 1,692,828; Nov. 27.
Molded article and making the same, Light-weight. J. A. Babor and W. L. Estabrooke. 1,693,015; Nov. 27.
Molding. S. L. Abrahams. 1,693,327; Nov. 27.

Molding apparatus. W. H. Croft and R. J. Shoemaker. 1,693,222; Nov. 27.
Mop. F. E. Hill. 1,692,987; Nov. 27.
Mosquito and insect trap. G. C. Cherry. 1,693,368; Nov. 27.
Motor: *See*—
Electric motor. Explosion motor.
Motor-control system, Induction-. H. V. Nye. 1,693,587; Nov. 27.
Motor controller. R. G. Thompson. 1,692,962; Nov. 27.
Motor with scavenging and expulsion through ports in the cylinder, Two-stroke internal-combustion. T. V. Hemmingsen. 1,693,506; Nov. 27.
Mower, Lawn. J. S. Clapper. 1,693,475; Nov. 27.
Mower, Power lawn. H. S. Humphrey. 1,692,838; Nov. 27.
Muffle for sintering machine. J. C. Devick. 1,692,976; Nov. 27.
Nailing machine, Floor-. A. A. Fawcett. 1,693,290; Nov. 27.
Necktie, Bow. A. L. Howard. 1,692,991; Nov. 27.
Nest, Trap. J. L. Skinner. 1,692,957; Nov. 27.
Neutralizing the alkalinity of water. A. H. White. 1,693,065; Nov. 27.
Nozzle. J. Fraser. Des. 76,996; Nov. 27.
Nozzle, Road-oil-spraying. S. S. Girling. 1,693,230; Nov. 27.
Nozzle, Variable exhaust. J. G. Blunt. 1,693,219; Nov. 27.
Nut, Adjusting. C. H. Allen. 1,693,538; Nov. 27.
Nut-cracking machine. E. H. Patton. 1,693,493; Nov. 27.
Oil-burning apparatus. I. E. Smith. 1,693,061; Nov 27.
Oil-cleaner, Auto. L. C. Weinberg. 1,693,471; Nov. 27.
Oilcloth. H. W. Dieck. Des. 76,991; Nov. 27.
Oil heater. J. Primrose. 1,693,155; Nov. 27.
Oil wells, Blow-out device for. B. S. Minor. 1,693,039; Nov. 27.
Oiler, Automatic pressure-actuated gravity. W. A. Laughery. 1,693,087; Nov. 27.
Overhead haulage carrier. E. Milotte. 1,693,523; Nov. 27.
Overshoe, Furrower. J. V. Dyrr. 1,693,226; Nov. 27.
Package and closure cap therefor, Sealed. L. P. Piazzoli, jr. 1,693,250; Nov. 27.
Packages, Manufacture of moistureproof paper. H. G. Eckstein. 1,692,822; Nov. 27.
Packing and packing device. H. F. Snyder. 1,693,003; Nov. 27.
Padlock. A. C. Jackson. 1,693,511; Nov. 27.
Paper-bag handle. M. Faistenhammer. 1,693,110; Nov. 27.
Paper, Wrapping. A. Baron. Des. 76,978; Nov. 27.
Parachute. J. H. Kessler. 1,693,518; Nov. 27.
Parking device for automobiles. B. Walker. 1,693,288; Nov. 27.
Pasteurizing liquids. A. Jensen. 1,693,034; Nov. 27.
Pasteurizing milk, Apparatus for. J. O. Templeton. 1,692,874; Nov. 27.
Pedestal for lamps, Supporting. A. R. Kanné. Des. 77,007; Nov. 27.
Pen, Fountain. E. Bergquist. 1,693,171; Nov. 27.
Pencil. M. E. McGill. 1,693,454; Nov. 27.
Pencil. F. J. Vierling. 1,693,099; Nov. 27.
Pencil. F. J. Vierling and C. G. Irvine. 1,693,100; Nov. 27.
Pencil, Magazine. J. Straka. 1,693,577–9; Nov. 27.
Pencil, Mechanical. J. C. Wahl. 1,693,580; Nov. 27.
Perforating casings. R. C. Woodward. 1,693,011; Nov. 27.
Permanent-waving machine. M. S. Joyner. 1,693,515; Nov. 27.
Pharmaceutical preparations and making same. W. Schoeller and K. Schmidt. 1,693,055; Nov. 27.
Phenol resin and making same. F. Groff. 1,693,112; Nov. 27.
Photo-electric call response, Amplification of. R. K. Potter. 1,692,904; Nov. 27.
Photograph interpreter, Aerial. D. M. Reeves. 1,693,527; Nov. 27.
Picture transmission. C. F. Jenkins. 1,693,508; Nov. 27.
Pile fabric. H. Mellor. 1,693,282; Nov. 27.
Pipe clamp. M. B. Davis. 1,693,478; Nov. 27.
Pipe clamp. J. J. Tipton. 1,693,064; Nov. 27.
Pipe clamp, Divided. S. M. Kass. 1,693,081; Nov. 27.
Pistol. W. S. Spencer. 1,693,530; Nov. 27.
Piston. J. C. Leary. 1,693,280; Nov. 27.
Piston. I. A. Weaver. 1,693,584; Nov. 27.
Piston for reservoirs for the storage of gas, steam, or easily-evaporating liquids, Sealing. F. Schürmann. 1,693,468; Nov. 27.
Pitcher. M. J. Perry, jr. Des. 77,027; Nov. 27.
Plant support. C. Lapolla. 1,693,393; Nov. 27.
Plastic composition materials, Production of. C. A. Nash. 1,692,856; Nov. 27.
Pocketbook, Lady's. S. M. Lodewick. Des. 77,011; Nov. 27.
Poke. C. J. Spencer. 1,693,469; Nov. 27.
Post for supporting an automobile axle, Adjustable. M. C. Supan. 1,693,411; Nov. 27.
Powder box. T. J. Clarke. 1,693,435; Nov. 27.
Powder puff. H. G. Volckening. 1,692,876; Nov. 27.
Power shovel. W. W. Sloane. 1,692,872; Nov. 27.
Preparation of fresh fruit for market. E. M. Brogden and M. L. Trowbridge. 1,693,575; Nov. 27.
Preservation of cheese. E. E. Eldredge. 1,693,025; Nov. 27.
Preservation of dairy products. E. E. Eldredge. 1,693,026; Nov. 27.
Preserver, Moisture. S. P. Shell. 1,693,318; Nov. 27.
Press: *See*—
Printing press.
Pressure regulator. L. E. Hankinson and W. M. Stephens. 1,693,273; Nov. 27.
Pressure-system lock, Automatic. J. P. Paca. 1,693,048; Nov. 27.
Print plate. G. A. Banner. 1,693,332; Nov. 27.
Printing machine, Rotary. A. Fallot. 1,693,504; Nov. 27.
Printing press. M. W. Brueshaber. 1,692,814; Nov. 27.
Prop, Fruit-tree. P. F. Phelp. 1,693,180; Nov. 27.
Propeller-control mechanism for reversible or adjustable pitch propellers. E. C. McCauley and F. W. Caldwell. 1,693,451; Nov. 27.
Propelling means for crawling tractors. R. H. White. 1,693,215; Nov. 27.
Protecting animal fiber. P. Onnerts and B. Schwirzel. 1,692,950; Nov. 27.
Protecting granular substances and resulting product. B. P. Richardson. 1,692,996; Nov. 27.
Protective guard for winding or other machines. J. A. Cameron. Re17,145; Nov. 27.
Protector, Tire. J. J. McDonald. 1,692,850; Nov. 27.
Pulley drive for drilling machines, Successive. W. F. Bockhoff. 1,693,018; Nov. 27.
Pump. C. Warner. 1,693,418; Nov. 27.
Pump-control device. H. E. Balsiger. 1,693,540; Nov. 27.
Pump, Dredger. H. F. Schmidt. 1,693,352; Nov. 27.
Pump for lubricating systems. I. Cowles. 1,693,068; Nov. 27.
Pump, Oil-well. J. P. Worthington. 1,693,101–2; Nov. 27.
Pumping and metering apparatus. T. A. Banning, jr. 1,692,921; Nov. 27.
Purifying camphor and similar volatile substances, Method and apparatus for. E. G. Loomis. 1,693,243; Nov. 27.
Purifying the water used for steam-boiler purposes. A. H. White. 1,693,066; Nov. 27.
Pyrometer, Recording optical. O. H. Blackwood. 1,692,923; Nov. 27.
Quinine solution, Basic. A. Liebrecht. 1,692,900; Nov. 27.
Rack: *See*—
Towel rack.
Radiator. H. A. Higgins. 1,693,233–4; Nov. 27.
Radiator. A. L. Swank. 1,693,260; Nov. 27.
Radiator cover. E. C. Abt. 1,693,216; Nov. 27.
Radiator, Heat. H. O. Stephens. 1,693,324; Nov. 27.
Radio loud speaker. F. Mattis. 1,692,994; Nov. 27.
Rail bond and making the same. W. F. Hart. 1,692,895; Nov. 27.
Rail, Running. N. C. Rendleman. 1,692,905; Nov. 27.
Rails to their supports, Securing railway. P. Ramy. 1,693,465; Nov. 27.
Rake. N. F. B. Ostberg. 1,693,492; Nov. 27.
Rattle. C. H. Dietze, jr. 1,693,140; Nov. 27.
Razor, Flash-light safety. F. Pollifrone. 1,693,348; Nov. 27.
Razor, Safety. B. F. Stewart. 1,693,532; Nov. 27.
Reactance device. S. M. Lucas. 1,693,178; Nov. 27.
Reamer, Valve-seat. R. C. Willis. 1,693,129; Nov. 27.
Receptacle, Mechanical. M. V. Samuels. 1,693,096; Nov. 27.
Recording and sales-check mechanism for fluid-dispensing pumps. A. R. Mason and O. C. Failing. 1,693,092; Nov. 27.
Reel: *See*—
Film reel.
Refining oils, Apparatus for. J. Primrose. 1,693,156; Nov. 27.
Reflector and shade, Combined. W. J. Floyd. 1,692,892; Nov. 27.
Refrigerating apparatus. J. Fahrni. 1,693,373; Nov. 27.
Refrigerating apparatus. M. E. Thompson. 1,693,355; Nov. 27.
Refrigerating system and operating the same. L. G. Copeman. 1,693,138; Nov. 27.
Refrigerating unit. F. L. Bryant. 1,693,433; Nov. 27.
Refrigeration. C. G. Munters. 1,693,553; Nov. 27.
Refrigeration. H. S. Vassar. 1,693,357; Nov. 27.
Refrigeration apparatus. H. C. Folger. 1,693,377; Nov. 27.
Refrigerator. P. W. Flint. 1,693,200; Nov. 27.
Refrigerator. A. N. Hornung. 1,693,078; Nov. 27.
Refrigerator. C. G. Juneau. 1,693,387; Nov. 27.
Refrigerators, Forestalling leakage in concrete. E. R. Oden. 1,693,094; Nov. 27.
Register: *See*—
Cash register.
Registering paper webs. L. Jensen. 1,693,035; Nov. 27.
Regulator: *See*—
Pressure regulator.
Regulating system. G. R. McDonald. 1,693,306–7; Nov. 27.
Relay, Alternating-current. E. O. Thompson. 1,692,961; Nov. 27.
Relay system. A. J. A. Peterson. 1,693,402; Nov. 27.
Relaying arrangement. S. P. Shackleton and A. A. Hausen. 1,692,907; Nov. 27.
Reproducing position. E. J. Murphy. 1,693,314; Nov. 27.
Reservoir comb. F. H. Newton. 1,693,248; Nov. 27.
Resinous by-products in the manufacture of wood pulp, Recovering. E. H. French. 1,693,586; Nov. 27.





Rheostat. C. E. Warner. 1,693,009; Nov. 27.
Ring. A. Sager. Des. 77,032; Nov. 27.
Ring mill. J. Molz. 1,693,247; Nov. 27.
Rock drill. E. G. Gartin. 1,692,934; Nov. 27.
Roll and making same. J. R. Adams. 1,693,422; Nov. 27.
Rolling mill, Three-high. L. Johnson. 1,693,386; Nov. 27.
Roof joint, Metallic-. E. J. Hayman. 1,693,274; Nov. 27.
Roof flashing. W. B. Stephenson. 1,693,410; Nov. 27.
Rope clamp, Wire-. G. E. Lambert. 1,692,993; Nov. 27.
Rotary drill. H. D. and W. A. Bartholomae, jr. 1,693,017; Nov. 27.
Rotary machine. J. Lavergne. 1,693,302; Nov. 27.
Rug-making machine. J. E. Berglind. 1,693,267; Nov. 27.
Safety device for passenger coaches and other vehicles. G. W. Taylor. 1,693,412; Nov. 27.
Safety guard. W. D. Anderson. 1,692,972; Nov. 27.
Salts from brines, Recovery of sodium. W. A. Kuhnert. 1,693,237; Nov. 27.
Sand-blast apparatus and process. R. H. Moore. 1,692,948; Nov. 27.
Sand-blast machine. E. A. Rich, jr., and R. H. Moore. 1,692,864; Nov. 27.
Sanding machines, Feet for. E. E. Hummerich. 1,692,898; Nov. 27.
Saw-dressing device. J. H. Roberts. 1,692,997; Nov. 27.
Scraper, Drag. W. J. Slavin. 1,693,353; Nov. 27.
Screen: *See*—
Window screen.
Scroll arm for an electric-lighting fixture or similar article. G. E. McFadden. Des. 77,019; Nov. 27.
Sea wall and making same. R. M. Miller and H. D. Hodgson. 1,693,311; Nov. 27.
Seal, Furnace-truck. P. A. Meehan. 1,693,152; Nov. 27.
Seat: *See*—
Adjustable seat. Valve seat.
Seat for automobiles, Adjustable. W. J. Rhyner. 1,693,120; Nov. 27.
Securing plate glass, Device for. C. G. Nelson. 1,693,046; Nov. 27.
Seed bag. R. Baldwin. 1,693,266; Nov. 27.
Seine net and bottom dragnet with trapping wings, Combined. C. Hansen and P. Leth. 1,692,830; Nov. 27.
Separating eggs, Apparatus for. J. G. Dow. 1,692,931; Nov. 27.
Separating substances, Process of and apparatus for. J. L. Hope. 1,693,033; Nov. 27.
Service board, Foldable. E. W. Cummings. 1,692,930; Nov. 27.
Shackle, Oilless spring. R. Henry. 1,692,837; Nov. 27.
Shade, Lamp. C. F. Stallbaum. Des. 77,041; Nov. 27.
Shade raiser. G. Pagano. 1,693,457; Nov. 27.
Shears: *See*—
Sheep shears.
Shears. C. A. Kopp. 1,693,301; Nov. 27.
Sheep shears. F. W. Scott. 1,692,870; Nov. 27.
Sheet and tin plate catcher, Mechanical. D. G. Davies and F. T. Rundell. 1,692,888; Nov. 27.
Sheet folding. H. K. King. 1,693,147; Nov. 27.
Shock absorber. L. Benson. 1,693,571; Nov. 27.
Shock absorber. H. H. Logan. 1,693,340; Nov. 27.
Shocker, Grain. H. E. Wunderlich. 1,692,882; Nov. 27.
Shoe and making same. A. E. Block. 1,693,218; Nov. 27.
Shoe construction. H. H. Schwartz. 1,693,122; Nov. 27.
Shoe last. C. Miller and M. Feinstein. 1,693,397; Nov. 27.
Shoe, Orthopedic. M. Hilgert. 1,692,896; Nov. 27.
Shoes, Method for use in the manufacture of. W. C. Baxter. 1,693,132; Nov. 27.
Shower inclosure. L. H. Lehman. 1,693,088; Nov. 27.
Shuttle guard and stop motion, Combined. L. A. Badger. 1,693,539; Nov. 27.
Sign. F. Chester. Des. 76,984; Nov. 27.
Sign, Luminescent advertising. O. B. Shulhof. 1,693,059; Nov. 27.
Sign, Road. T. H. Johns. Des. 77,006; Nov. 27.
Signal for motor vehicles. M. Smithey. 1,693,554; Nov. 27.
Signal or indicator for motor vehicles. M. Smithey. 1,693,555; Nov. 27.
Signal switch for tanks. S. Antonelli. 1,693,131; Nov. 27.
Signaling device. A. L. Mettler. 1,693,309; Nov. 27.
Sink faucet, Combination. R. H. Mueller. Des. 77,022–4; Nov. 27.
Shovel: *See*—
Power shovel.
Slicing machines, Driving mechanism for. R. Bachman. 1,692,918; Nov. 27.
Slipper and making the same, Ballet. S. Capezio. 1,693,174; Nov. 27.
Slitting means. J. A. Cameron. 1,692,815; Nov. 27.
Snowplow. C. L. Walling. 1,693,187; Nov. 27.
Snowplow, Hand. W. H. Batty. 1,693,472; Nov. 27.
Snubber. I. E. Litten. 1,693,281; Nov. 27.
Socket for luminescent-tube signs, Adjustable. W. F. Henry. 1,693,145; Nov. 27.
Soldering radiators. G. W. Christoph. 1,692,818; Nov. 27.
Sole for a shoe. J. Richter and R. Ježek. Des. 77,029; Nov. 27.
Sound amplifier. J. Kersten. 1,692,841; Nov. 27.
Sound detector and amplifier apparatus, Shielding. L. de Forest. 1,693,072; Nov. 27.
Sound-recording attachment for motion-picture cameras. L. de Forest. 1,693,071; Nov. 27.
Sound reproducer. H. I. Danziger and C. L. Wachter. 1,693,223; Nov. 27.
Speed-control and frequency-converter set. J. I. Hull. 1,693,296; Nov. 27.
Speed indicator, Ground-. R. Kauch and C. L. Paulus. 1,693,510; Nov. 27.
Speed mechanism, Change-. O. A. Dietsche. 1,693,139; Nov. 27.
Speedometers, Indicating attachment for. J. H. Frier, jr. 1,693,075; Nov. 27.
Spinning mule, Bunch-building. S. F. Rockwell and J. W. Randall. 1,692,866; Nov. 27.
Spring control, Vehicle. P. T. Stoughton. 1,693,097; Nov. 27.
Sprinkler head. H. E. Meng. 1,693,245; Nov. 27.
Sprinkling system. L. Spencer. 1,693,556; Nov. 27.
Stay-bolt manufacturing, Hollow-. G. H. Mansfield. 1,693,487; Nov. 27.
Steam table, Electric. R. E. Medearis. 1,693,522; Nov. 27.
Sterilizing apparatus. H. A. Foster. 1,692,983; Nov. 27.
Stitch and forming the same. A. F. Goetze. 1,693,439; Nov. 27.
Stone roll. J. W. Vedder. 1,693,358; Nov. 27.
Stoneworking machine. J. Wegner. 1,693,212; Nov. 27.
Stop motion, Electrically-operated warp. J. Regan. 1,692,952; Nov. 27.
Stopper: *See*—
Bottle stopper.
Stovepipe. A. R. Atteberry and I. J. Blalock. 1,693,428; Nov. 27.
Stovepipe ventilator. W. J. Hull. 1,693,507; Nov. 27.
Strainer, Paper-stock. J. D. Haskell and M. R. Rust. 1,693,560; Nov. 27.
Stretcher, Necktie. J. T. McGrath. 1,693,205; Nov. 27.
Subsoil, Determining the nature of. M. Mason. 1,692,849; Nov. 27.
Sulphur dioxide and hydrogen, Production of. C. H. MacDowell and H. H. Meyers. 1,693,244; Nov. 27.
Support, Drawer. A. H. Andersson. 1,692,805; Nov. 27.
Support, Electric outlet-box. L. Barnett. 1,692,806; Nov. 27.
Support fixture for hangings or for clothes hangers. L. A. Smith. 1,693,408; Nov. 27.
Support, Foot. P. G. H. Hinder. 1,693,482; Nov. 27.
Support for bobbin, Resilient. R. G. Turner. 1,692,967; Nov. 27.
Support, Garment. G. Greenberg. 1,693,030; Nov. 27.
Switch: *See*—
Automatic switch.
Switch extension attachment, Engine-starting-. E. F. Bennett. 1,692,883; Nov. 27.
Switch mounting. D. D. Gordon. 1,693,382; Nov. 27.
Syringe. L. C. Berg. 1,692,922; Nov. 27.
Table: *See*—
Steam table.
Tabouret. G. Bergstrom. Des. 76,980; Nov. 27.
Telephone circuits and apparatus. A. Nyman and F. Conrad. 1,693,401; Nov. 27.
Telephone head set. A. Easthope. 1,693,337; Nov. 27.
Telephone system, Automatic. R. F. Stehlik. 1,693,124; Nov. 27.
Temperature indicator. C. A. Dunham. 1,693,225; Nov. 27.
Tension indicator for brush holders. H. O. Simmons. 1,693,319; Nov. 27.
Terminal equipment, Electric. F. Mackintosh. 1,693,303; Nov. 27.
Textile fabric. J. Castro. Des. 76,982–3; Nov. 27.
Textile ranges, Method and means for operating. W. S. Rowley and H. W. Butterworth, jr. 1,692,955; Nov. 27.
Therapeutic shoe. C. Miller and M. Feinstein. 1,693,398; Nov. 27.
Thermal cut-out. M. J. Sandin. 1,693,404; Nov. 27.
Thermal protective system. H. Beiersdorf. 1,693,362; Nov. 27.
Thermal relay. H. S. Gano. 1,693,379; Nov. 27.
Thermometer, Clinical. W. H. Jones. 1,693,299; Nov. 27.
Tie plate and rail anchor, Combined. E. J. Henggi. 1,693,275; Nov. 27.
Tile, Sanitary wall. A. Goodell. 1,693,438; Nov. 27.
Tire-building machine. G. F. Wikle. 1,693,419; Nov. 27.
Tire rim, Automobile. B. D. Colgrove. 1,693,192; Nov. 27.
Tire-valve stem and pressure gauge. N. T. Shorts. 1,693,528; Nov. 27.
Tires, Making cushion solid. L. M. Southmayd. 1,693,409; Nov. 27.
Toilet-seat cover. A. E. Casner. 1,693,501; Nov. 27.
Tongs. N. K. Smith. 1,693,002; Nov. 27.
Tool, Clamp-applying. J. E. Roughan. 1,692,954; Nov. 27.
Tool handle. H. I. Cluiee. 1,693,269; Nov. 27.
Tool organization, Machine-. E. J. Kearney. 1,693,446; Nov. 27.
Tool, Percussive. G. W. Hulshizer. 1,692,937; Nov. 27.
Tool, Pneumatic. A. T. Dupont. 1,692,889; Nov. 27.
Tool, Pneumatic. W. J. Spencer. 1,693,123; Nov. 27.
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# OFFICIAL GAZETTE

OF THE

# UNITED STATES PATENT OFFICE

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[Decisions of the Court of Appeals of the District of Columbia are indicated by the letter (a); and of the United States Circuit Court of Appeals by the letter (c).]

# ERRATA.

230,313 (Trade-Mark), page 45, after the name of the registrant insert *now, by change of name, Fadrich Corporation, assignor to F. A. D. Richter & Co., Inc., Brooklyn, N Y., a Corporation of New York.*

1,695,284, page 572, in the heading, assignment, after name of assignee, insert the word *trustee.*

Patents Nos. 1,603,588 to 1,604,363.

# THE OFFICIAL GAZETTE

OF THE

# United States Patent Office.

Vol. 377—No. 1. TUESDAY, DECEMBER 4, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.
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| Labels | 30—No. | 35,021 to No. | 35,050, | inclusive. |
| Prints | 19—No. | 11,356 to No. | 11,370, | inclusive. |
| Reissues | 7—No. | 17,149 to No. | 17,155, | inclusive. |
| Designs | 96—No. | 77,049 to No. | 77,143, | inclusive. |
| Patents | 779—No. | 1,603,585 to No. | 1,604,363, | inclusive. |
| Total | 1,162 | | | |

## Trade-Marks Canceled.

84,216. Butter. Diamond Creamery Co., Massena, N. Y. Registered November 21, 1911. Canceled November 17, 1928.

87,810. Abdominal supporters. Abraham Rockowitz, New York, N. Y. Registered August 6, 1912. Canceled November 17, 1928.

88,118. Corsets. Abraham Rockowitz, New York, N. Y. Registered August 27, 1912. Canceled November 17, 1928.

105,982. Antiseptic powder. The Limol Chemical Co., Alexandria, Va. Registered September 7, 1915. Canceled November 17, 1928.

126,897. Preparations for treatment of hair and scalp. William P. Saunders, Birmingham, Ala. Registered October 7, 1919. Canceled November 17, 1928.

139,410. Malt extract. Tiger Products Company, St. Paul, Minn. Registered February 1, 1921. Canceled November 17, 1928.

141,683. Certain articles of clothing. Société Anonyme Tissage et Bonneterie de Troyes, Troyes, France. Registered April 26, 1921. Canceled November 17, 1928.

165,589. Disinfectant and medicinal preparation. Chemische Fabrik Güstrow Dr. Hillringhaus & Dr. Heilmann, Gustrow, Germany. Registered March 13, 1923. Canceled November 17, 1928.

197,503. Rugs. Pennsylvania Working Home for Blind Men, Philadelphia, Pa. Registered April 21, 1925. Canceled November 17, 1928.

208,365. Furniture. The Messerschmidt Furniture Co., Columbus, Ohio. Registered January 26, 1926. Canceled November 17, 1928.

224,482. Artists' water colors, paints, and oils. Theodore Daniels, New York, N. Y. Registered March 1, 1927. Canceled October 12, 1928.

233,774. Sole leather. Eikert Bros. Tanning Company, Milwaukee, Wis. Registered October 11, 1927. Canceled November 17, 1928.

241,925. Hand lotion. D and O Hand Lotion Company, Minneapolis, Minn. Registered May 8, 1928. Canceled November 17, 1928.

243,451. Bicycles. John W. Kuenzli, doing business as John H. Kuenzli and John H. Kuenzli & Son, Milwaukee, Wis. Registered June 19, 1928. Canceled November 17, 1928.

246,593. Frozen eggs. Titman Egg Corporation, New York, N. Y. Registered September 11, 1928. Canceled November 17, 1928.

## Amendments and Status Letters.

DIVISION OR ROOM NUMBER SHOULD BE INDICATED.

Attorneys and applicants should, in making amendments and in writing letters asking for the status of applications, indicate the division to which the application was assigned or the room number of the division.

If papers are thus marked, it will save a large amount of time of this Office in looking up the records in order to ascertain to what divisions they should be sent.

## Interference Notice.

U. S. PATENT OFFICE, *Washington, Nov. 21, 1928.*

*Chas. Anderson, his assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Limoneira Company, Santa Paula, Calif., for registration of a trade-mark and trade-mark registered December 11, 1923, No. 177,148, to Chas. Anderson, Wasco, Calif., and a notice of such declaration sent by registered mail to said Chas. Anderson at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. Anderson, his assigns or legal representatives, shall enter an appearance therein within 20 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications Under Examination at Close of Business November 23, 1928.

| Room No. | Divisions, Examiners, and Subjects of Inventions. (Total number of applications awaiting action, excluding Trade-Mark Division, 109,733; Trade-Mark Division, 1,771. Oldest new case, Jan. 20, 1928; oldest amended, Jan. 23, 1928. The dates given are 1928.) | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Mar. 13 | Mar. 17 | 1,527 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 22 | Mar. 30 | 1,635 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Mar. 24 | Apr. 4 | 1,308 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Feb. 23 | Feb. 24 | 1,488 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 17 | Feb. 18 | 1,472 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Feb. 2 | Feb. 16 | 2,524 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Feb. 15 | Feb. 15 | 1,938 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 10 | May 5 | 1,573 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Apr. 16 | Apr. 5 | 1,762 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Mar. 10 | Mar. 26 | 1,720 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | May 23 | May 24 | 841 |
| 380 | 12. PIERCE, P. P., Machine Elements | Mar. 12 | Mar. 13 | 1,894 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Mar. 10 | Apr. 5 | 1,480 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Feb. 24 | Feb. 20 | 1,134 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Feb. 10 | Feb. 16 | 2,699 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 19 | Apr. 16 | 1,224 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Mar. 3 | Mar. 12 | 1,407 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Jan. 20 | Jan. 23 | 1,716 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Mar. 14 | Mar. 29 | 1,907 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking | May 21 | May 21 | 1,411 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Mar. 15 | Apr. 2 | 1,012 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Feb. 7 | Feb. 15 | 1,602 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Jan. 27 | Feb. 2 | 1,117 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Mar. 8 | Mar. 10 | 1,522 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | May 2 | 1,667 |
| 228* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Mar. 17 | Mar. 12 | 1,180 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 16 | Apr. 19 | 1,495 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 27 | Mar. 24 | 1,778 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Mar. 15 | Mar. 22 | 1,022 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Feb. 25 | June 8 | 1,478 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Mar. 7 | Mar. 9 | 2,064 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Feb. 7 | Feb. 8 | 2,075 |
| 152 | 33. WYMAN, W. L., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | June 13 | June 15 | 1,934 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Feb. 7 | Feb. 24 | 1,342 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 22 | May 25 | 1,651 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring | Mar. 31 | Mar. 31 | 2,116 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Feb. 1 | Feb. 4 | 2,404 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Apr. 3 | Apr. 3 | 1,914 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Feb. 20 | Feb. 18 | 1,910 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Feb. 25 | Apr. 9 | 2,741 |
| 125 | 41. BROWN, J. L., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 1 | Mar. 14 | 1,387 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Feb. 13 | Mar. 16 | 1,539 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 28 | Mar. 28 | 2,229 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Feb. 27 | Mar. 5 | 1,989 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Mar. 1 | Mar. 8 | 2,438 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 16 | Feb. 27 | 1,709 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 12 | Mar. 16 | 1,991 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Mar. 7 | Mar. 2 | 1,530 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Mar. 29 | Apr. 14 | 1,433 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Mar. 15 | Mar. 19 | 2,531 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 24 | Feb. 25 | 2,234 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Apr. 2 | Apr. 2 | 2,263 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | May 10 | May 10 | 1,777 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Mar. 1 | Mar. 1 | 2,330 |
| 102 | 55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery<br>Designs | Mar. 12 | Mar. 13 | 746 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Oct. 26 | Nov. 9 | 454 |
| 257* | 57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Jan. 24 | Feb. 1 | 2,437 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Mar. 3 | Feb. 10 | 1,128 |
| 315 | 59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 30 | Jan. 30 | 1,358 |
| 213* | 60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Jan. 25 | Jan. 25 | 2,813 |
| 260 | 61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 15 | Feb. 16 | 1,691 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Feb. 11 | Feb. 20 | 2,246 |
| 163 | Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks<br>Labels and Prints | Feb. 6 | Mar. 17 | 2,702 |
| | | Oct. 2 | Nov. 10 | 1,636 |
| | | Nov. 2 | Nov. 16 | 135 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decision.

FABRIQUE DES LONGINES FRANCILLON & CO., S. A., BY ITS U. S. AGENT, A. WHITTNAUER CO., *v.* O. MAIRE, INC.

*Decided May 3, 1928.*

TRADE-MARKS—SIMILARITY—"LONGIA" AND "LONGINES."

The word "Longia," as a trade-mark for watches, *Held* to be deceptively similar to the mark "Longines," as applied to the same class of goods.

APPEAL from Examiner of Interferences.

Opposition No. 7,120 by Fabrique des Longines Francillon & Co., S. A., by its U. S. agent, A. Whittnauer Co., to registration of trade-mark for watches of O. Maire, Inc. Application filed September 29, 1925, Serial No. 220,964, published March 2, 1926.

*Mr. Edward M. Evarts* for the opposer.

*Mr. W. H. Swenarton* for the applicant.

MOORE, *Assistant Commissioner:*

The applicant, O. Maire, Inc., appeals from the decision of the Examiner of Interferences sustaining the opposition of the opposer, Fabrique des Longines Francillon & Co., S. A., by its U. S. agent, A. Whittnauer Co., and adjudging that the applicant is not entitled to the registration for which it has made application.

The Examiner of Interferences sustained the opposition on the ground that the applicant's mark and the opposer's mark so nearly resemble each other as to be likely to cause confusion in trade.

The stated reasons for appeal are too general. They fail to point out specifically any error in the decision of the Examiner of Interferences. To merely allege that the Examiner of Interferences erred in sustaining the opposition, in not dismissing the opposition, and in not adjudging applicant entitled to the registration for which it has made application, gives no aid to the appellate tribunal in reviewing the decision of the Examiner of Interferences.

From the facts admitted by the applicant in his answer to the notice of opposition, and from the agreed state of facts stipulated into the record, it appears that the opposer adopted and used its trade-mark "Longines" prior to the adoption and use by the applicant of its trade-mark "Longia," that the applicant's merchandise and the opposer's merchandise have the same descriptive properties, and that the opposer has spent large sums of money—viz, upwards of $500,000—in advertising its trade-mark and the goods to which it is appropriated, and has built up and still retains a very valuable equity in its trade-mark and the good will of the business in which the mark is and has been used.

Section 5 of the Trade-Mark Act of Feb. 20, 1905, provides:

That trade-marks which are identical with a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered.

As the trade-mark "Longines" was known and in use by the opposer and was registered prior to the adoption and use by the applicant of its trade-mark "Longia," and as the two marks are appropriated to goods of the same descriptive properties, the sole remaining question for consideration is whether the two marks so nearly resemble each other as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers.

It is stipulated that two pronunciations of the word "Longines" are "Lon-jeens" and "Lonjeen," respectively, while one pronunciation of the word "Longia" is "Lon-jee-a."

I am of the opinion that the two marks so nearly resemble each other as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers when concurrently appropriated to goods of the same descriptive properties.

A comparison of the two marks shows that they are identical both as to appearance and sound with respect to the first and major part of the words constituting the marks—viz, "Longi." They differ only with respect to the endings of the two words, the one ending with "a" and the other with "nes." It is believed that this slight difference would not be observed and carried in the mind of the average member of the purchasing public; but should the difference be observed and remembered the applicant's mark would be likely to be regarded as a mere variant of the opposer's mark.

The principles applied by the Court of Appeals of the District of Columbia in *Guggenheim* v. *Cantrell & Cochrane*, 352 O. G. 533, 56 App. D. C. 100, 10 F. (2d) 895, 1926 C. D. 221, are applicable to the instant case, and in view thereof registration of the applicant's mark must be refused.

The decision of the Examiner of Interferences is affirmed.

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## Court of Appeals of the District of Columbia.

THE MANHATTAN SHIRT CO. *v.* NATIONAL DEPARTMENT STORES, INC.

*No. 2,953. Decided June 4, 1928.*

TRADE-MARKS—SIMILARITY—"NADSCO" AND "MANSCO" NOT DECEPTIVELY SIMILAR.

The term "Nadsco" *Held* not deceptively similar to the term "Mansco" in view of the custom of building up trade-marks from initials and the common practice of ending them with the letters "co" and "sco."

APPEAL from Patent Office. Affirmed.

*Mr. Louis Alexander* for The Manhattan Shirt Co.
*Mr. J. K. Brachvogel* and *Mr. H. E. Seidel* for National Department Stores, Inc.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.*:

Appeal from a Patent Office decision dismissing appellant's opposition to the registration by appellee of the word "Nadsco" arranged within a diamond outline, the letters becoming smaller towards the narrower portions of the diamond.

Prior to the adoption and use by appellee of its mark, appellant adopted and registered the word "Mansco" arranged above a representation of an electric fan.

The Assistant Commissioner pointed out that it was common practice "to build up trade marks from initial and other letters of firm or corporate names," and that such notations or marks "very frequently end with the letters 'co' or even 'sco'." It is apparent that this practice was followed by the parties in this case. We agree with the Patent Office that the two marks here involved are sufficiently dissimilar as to permit their concurrent use without the likelihood of confusion.

Decision affirmed.

Affirmed.

## U. S. Circuit Court of Appeals—Third Circuit.

WILLIAM A. MURRAY SPRING CO. *v.* FORT PITT BEDDING CO.

*Decided January 19, 1928.*

[23 F. (2d) 559.]

PATENTABILITY—SPRING SEAT FOR AUTOMOBILES.

The Murray patent, No. 1,172,724, for a small unitary self-contained unattached spring seat for automobiles, *Held* valid, since the record shows that the solution of the problem which the patentees solved was not self-evident, "for the proofs show a long series of futile attempts to make a satisfactory seat before this successful device was lighted on."

APPEAL from the District Court of the United States for the Western District of Pennsylvania; Frederic P. Schoonmaker, Judge.

Suit in equity by the William A. Murray Spring Company against the Fort Pitt Bedding Company. Decree for defendant, and complainant appeals. Reversed and remanded.

*Mr. Walter F. Murray* for the appellant.

*Mr. E. W. McCallister, Messrs. Green & McCallister,* and *Mr. Alfred M. Houghton* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.*:

In the court below the Murray Spring Company, owner of Patent No. 1,172,724, granted February 22, 1916, to the Murrays for a spring seat, charged the Fort Pitt Bedding Company with infringement thereof. On final hearing that court held the patent invalid, and from a decree dismissing the bill this appeal was taken.

The patent concerns a small, removable, unitary, self-contained, unattached spring seat, adapted to be used in automobiles and other vehicles, in which the spring inclosing and supporting frame has leather or fabric covering. The general make-up of such seats in use before this patent and the well-known elements used therein may be thus described: Several rows of spiral springs were located between an upper and lower square or oblong metallic frame or rim. Within the upper frame the broader ends of the spiral springs were placed, and secured to each other and to the inclosing frame by clamps. The lower ends of the springs were attached to metallic cross strips, which at their ends overlapped and were clamped to the lower supporting frame or rim. The upper frame was covered with a sheet of leather or fiber covering, and the edges thereof were then drawn down and fastened to the lower supporting frame or rim, by being overlapped over the several portions between the overlapping ends of the cross strips. A sleeve or envelope was then used to clamp the leather or other covering to that section of the lower supporting frame between the several overlapping cross-strip ends.

It will be observed that the cross-strip ends so overlapped the rim or lower frame as not to allow the enveloping sleeve to be carried over them. This general construction was used by Murray and other spring makers for a long time prior to the patent. It was open to objection, in that it did not afford a satisfactory means of completely attaching the leather or other covering to the lower supporting frame and protecting it from wear. Murray's invention was exceedingly simple, but, like many other devices of a simple nature, effected so marked an improvement over the old form as to result in a sale thereof by the plaintiff company and to a copying thereof by the defendant. This change consisted simply in taking the old lower supporting frame, with its cross-strip supporting member, and making such a groove or recess on the lower side of these cross strips that the plurality of enveloping sleeves located between the clamping ends of the transverse sections could be dispensed with, and be replaced by an unbroken continuous sleeve, which extended over the whole length of the rim of the lower supporting frame.

We assume that all of these elements, in and of themselves—to wit, the spiral springs, the upper and lower supporting frames, and cross strips—were old, and there was no inventive act involved in merely putting a groove of any particular shape in a cross strip, but Murray was the first to have conceived and made the combination of, first, a bottom frame; second, cross strips secured to the frame and inwardly-projecting offsets adjacent to the frame; third, a sleeve which covered the whole side length of the frame rim and fitted into the cross-strip offsets, and which clamped the entire length of the lower edge of the seat covering to the entire length of the rim of the bottom frame; or, as stated in the third claim, first, a new article of manufacture; second, a metallic cross strip for vehicle seats having adjacent to its ends transverse offsets; third, offsets adapted to receive the edge of the covering of a seat. This device, under the proofs, was highly acceptable to the trade, and from the time the patent was granted until 1917 some 400,000 sets of Murray's seats were sold. At this time the Government took over the plaintiff's plant for use in making machine-gun and rifle springs, and their ordinary trade was abandoned or drifted away, until they again started in 1919, from which time they have built up an increasing trade.

The proof is that in the older method—

the upholstering was made in a pad for the seat, with the skirts, the side curtains, hanging down enough to wrap around the underneath frame, and then there were clips or sections of molding that fastened between—around that, in between the cross-strips. You could not put a straight molding clean through, on account of the cross-strip interfering.

The trade objected to the wearing of the fabric at the intersection of the cross strips, and the advantage of the patented article over the old method was that—

they could put the curtain clean along the bottom, and fold it clean in, and put the strip of molding all the way through, and it protected the whole bottom; it kept the cross-section strip off the seat, the wooden seat or platform that it rested on, and the molding protected the fabric all the way around the seat.

For their disclosure the Murrays were awarded the patent in suit, and the prima facie of invention evidenced by the issue of such patent is not overcome by the defendant, and apart from that we are of opinion tht devict involved invention.

We have not overlooked the patents referred to by the court below as justifying it in holding the patent in suit void of invention. To us, however, it is clear that none of them involved the problem which the patent before us solved, and which the needs of the trade in which the two patentees were working called on their company to solve. Not involving the problem the Murrays did solve, these prior patents gave them no help in its solution. Homan's patent, No. 519,792 of 1894, was not for an unattached, self-contained, removable spring seat, but was for an immovable and fixed chair seat, which was mortised to the legs of the chair. Murray's patent, No. 692,535, was also for an immovable chair or couch seat, and was addressed to the problem, not of protecting the fiber or covering of a seat, but to a strengthening problem, namely, as stated—

to provide cross-strips which offer the maximum resistance to a bending strain with the smallest amount of metal, which affords seats into which the springs are readily placed and locked, and which are simple and inexpensive in their construction.

The depressions in the cross strip of this patent extended across, and were made by the whole width of the seat, and such depression was used to permit the springs to be seated in a lower level. It did not clamp the covering to a movable seat, but attached it to the frame of the chair or couch.

Without entering into details as to the other patents for the seats of railroad and street cars, we are of opinion that they are still further removed from the field which the plaintiff and defendant serve, and we find none of them threw any light whatever on the problem which the Murrays solved; and in that connection we may say that its solution was not self-evident, for the proofs show a long series of futile attempts to make a satisfactory seat before this successful device was lighted on. While the defendants, with a litigant's breath, extol these prior patents to minimize the plaintiff's device, yet in their business practice they magnify that device by using it alone, and minimize what in litigation they praise by ignoring the aid of every feature of it. They fail in their shop work to practice what they preach in proof, and, as always, their actions speak louder than their words. The Murrays' combination for the first time showed use of a continuous sleeve which protected every part of the edges of the seat covering, and for the first time a transverse groove in a cross strip so located as to allow use of such continuous clamping enveloping sleeve. As a practical result, the combination embodying these elements, for the first time in the art, produced for the first time in the art a unitary removable spring seat with the full length of the edges of its covering completely enveloped and clamped by a continuance sleeve which prevented abrasion of such covering. It was this combination, original in conception as a combination and strikingly useful in combination product, that made this simple unitary device worthy of patent protection.

The decree below will therefore be reversed, and the record remanded for the entry of a decree of validity and accounting.



## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

886,541, E. R. Robinson, Rail, appeal filed Oct. 7, 1928, C. C. A., 7th Cir., Doc. 4099, *A. Robinson* v. *J. J. Mitchell et al.*

1,018,502, Just & Hanaman, Manufacture of incandescent electric lamps, D. C., W. D. Wash., N. Div., Doc. 600, *General Electric Co.* v. *R. M. Burton et al.* Consent decree for plaintiff Oct. 27, 1928. Same, C. C. A., 3d Cir., Doc. 3769, *Atlas Speciality Co. et al.* v. *General Electric Co.* Decree affirmed July 16, 1928.

1,066,161, H. B. Stilz, Oil burner, C. C. A., 3d Cir., Doc. 3744, *H. B. Stilz* v. *Bethlehem Shipbuilding Corp., Ltd.* Claims 1, 5, 6, and 7 held not infringed Nov. 5, 1928.

1,082,933, W. D. Coolidge, Tungsten and method of making same for use as filaments of incandescent electric lamps, C. C. A., 3d Cir., Doc. 3654, *General Electric Co.* v. *De Forest Radio Co. et al.* Decree reversed in part Sept. 18, 1928.

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, filed Nov. 7, 1928, D. C., E. D. Mich., S. Div., Doc. 3040, *The Dock & Terminal Engineering Co. et al.* v. *Michigan Alkali Co.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Oct. 16, 1928, D. C., E. D. N. Y., Doc. 3889, *Claude Neon Lights, Inc.*, v. *F. Albert et al.* (*Built Well Electric Sign Co.*) Same, filed Oct. 17, 1928, D. C., E. D. N. Y., Doc. 3891, *Claude Neon Lights, Inc.*, v. *Nytanday Electric Signs, Inc., et al.*

1,158,123, R. A. Fessenden, Apparatus for generating and receiving electromagnetic waves, filed Oct. 22, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O-66-M, *Radio Corp. of America et al.* v. *F. W. Falck* (*Advance Electric Co.*).

1,212,840, F. J. Straub, Building block and method of making same, C. C. A., 3d Cir., Doc. 3776, *Crozier-Straub, Inc., et al.* v. *T. Graham et al.*; Doc. 3777, *Crozier-Straub, Inc., et al.* v. *J. Melmod et al.*; and Doc. 3778, *Crozier-*

*Straub, Inc., et al.* v. *R. G. Downer.* Decrees reversed Sept. 26, 1928.

1,270,758, J. H. Wilson, Can, C. C. A., 8th Cir. (St. Louis), Doc. 8036, *Wilson & Bennett Mfg. Co.* v. *Niedringhaus, Inc.* Decree affirmed Oct. 26, 1928.

1,313,974, E. D. Anderson, Machine for packing articles, D. C., S. D. N. Y., Doc. E 42/375, *E. D. Anderson, Inc.*, v. *Smith Bros., Inc.* Consent decree sustaining patent as to claims 26, 30, 31, 32, 33, 34, 36, 39, 41, and 42, Nov. 1, 1928.

1,326,520, A. McLaren, Ice-cream cone and package container, filed Jan. 23, 1928, D. C. Md. (Baltimore), Doc. E 1355, *McLaren Consolidated Cone Corp.* v. *Maryland Baking Co. et al.*

1,385,102, Winters & Crampton, Latch, C. C. A., 3d Cir., Doc. 3727, *A. F. Winters et al.* v. *Dent Hardware Co.* Decree affirmed Oct. 4, 1928.

1,443,565, F. J. Dolan, Box, D. C., S. D. N. Y., Doc. E 45/272, *J. M. Price* v. *Allison Drug Stores, Inc.* Consent order of discontinuance Oct. 31, 1928.

1,447,090, J. E. Langsdorf, Necktie, filed Oct. 30, 1928, D. C., E. D. Mich., S. Div., Doc. 3003, *Frano-Strohmenger & Cowan, Inc.*, v. *Payette Neckwear Co.* Same, D. C., S. D. N. Y., Doc. E 45/151, *Frano-Strohmenger & Cowan, Inc.*, v. *J. Fefferman et al.* Consent decree for plaintiff (notice dated Nov. 7, 1928).

1,451,491, S. H. Calkins, Pattern and guide strip, filed Nov. 5, 1928, D. C., E. D. Wis. (Milwaukee), Doc. 2475, *The Trattel Marble Co.* v. *J. E. Burke.*

1,452,898, J. B. Smyth, Process of treating rock asphalt, filed Nov. 7, 1928, D. C., S. D. Tex. (Houston), Doc. E 359, *Uvalde Rock Asphalt Co.* v. *S. Shambaugh.*

1,454,843, H. E. Brown, Underreamer, D. C., S. D. Calif. (Los Angeles), Doc. E M–86–M, *A. J. Campbell et al. (Grant Oil Co.)* v. *Duro Engineering Co.* Patent held valid and infringed, particularly claims 1, 2, 10, 11, and 12, Oct. 29, 1928.

1,495,439, G. D. Reagan, Tile brick or building tile, D. C., S. D. Ohio, E. Div., Doc. 435, *G. D. Reagan* v. *Heath Cube Service, Inc.* Patent held invalid (notice dated Oct. 31, 1928).

1,533,858, L. A. Hazeltine, Neutralizing capacity couplings in audions, filed Oct. 30, 1928, D. C. Del., Doc. E 695, *L. L. Jones* v. *Hazeltine Corp. et al.*

1,537,708, W. Schottsky, Thermionic vacuum tube, filed Oct. 9, 1928, D. C., E. D. N. Y., Doc. 3874, *Radio Corp. of America* v. *Williamsburgh Electric Supply Corp.*

1,553,459, H. H. Moreton, Spotlight lamp, filed Oct. 17, 1928, D. C., S. D. Calif. (Los Angeles), Doc. O–61–M, *D. L. Benton et al.* v. *Owl Lamp Co. et al.*

1,575,462, W. Stuebing, jr., Platform, C. C. A., 3d Cir., Doc. 3851, *Stuebing, Cowan Co.* v. *J. J. Semple et al.* Decree affirmed Oct. 31, 1928.

1,619,773, N. Abramson, Flashing plug, filed Oct. 2, 1928, D. C., E. D. N. Y., Doc. 3855, *Presto Products Co.* v. *Eagle Electric Mfg. Co. et al.*

1,628,591, P. Harris, Wig for dolls, D. C., S. D. N. Y., Doc. E 43/386, *Mutual Hair Goods Co., Inc., et al.* v. *A. A. Gerling (Gerling Toy Co.).* Consent decree for plaintiff Nov. 2, 1928.

1,646,347, C. C. Collette, Play ball, filed Nov. 3, 1928, D. C., S. D. N. Y., Doc. E 47/114, *C. C. Collette et al.* v. *The Hydrade Cut Fabric Co.*

1,649,060, C. J. Bristol, Water-heating attachment for hot-air furnaces, filed Oct. 31, 1928, D. C., S. D. Iowa (Ottumwa), Doc. E 4058, *Globe Machinery & Supply Co.* v. *Holland Furnace Co. et al.*

1,658,614, Strand & Johnson, Tank for combined harvester and thrasher, filed Nov. 5, 1928, D. C. Kans. (Wichita), Doc. E 528–N, *C. F. Strand et al.* v. *J. I. Case Threshing Machine Co.*

1,665,365, Hunt & Ropp, Apparatus for forming molds for columns with bases, filed Oct. 27, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–71–J, *Raymond Concrete Pile Co.* v. *B. E. Bertram (Bertram Drilling Co.) et al.*

1,671,855, A. F. Coulter, Bunch builder for spinning machine, filed Oct. 13, 1928, D. C., M. D. Ga. (Columbus), Doc. 10, *A. F. Coulter* v. *Eagle & Phenix Mills.*

1,676,485, D. F. Finucane, Leader-pipe strap, filed Nov. 1, 1928, D. C., S. D. N. Y., Doc. E 47/110, *D. J. Finucane* v. *Apex Gutter Hanger Corp et al.*

1,680,271, R. R. Machlett, Argon mercury discharge tubes, filed Oct. 1, 1928, D. C., E. D. N. Y., Doc. 3847, *Rainbow Light, Inc.*, v. *Claude Neon Lights, Inc.*

Re. 14,419, J. F. MacKay, Brooder, D. C., S. D. Ill., S. Div., Doc. 868, *The Buckeye Incubator Co.* v. *H. M. Sheer Co. et al.* Patent held valid but not infringed (notice dated Nov. 1, 1928).

Des. 72,007, R. E. Ellett, Toy animal, filed Sept. 1, 1928, D. C. N. J., Doc. 3524, *R. E. Ellett et al.* v. *G. Reiner et al.*

Des. 76,479, Hershkowitz & Hershkowitz, Trimming braid, filed Oct. 30, 1928, D. C., S. D. N. Y., Doc. E 47/91, *P. Hershkowitz et al.* v. *B. Gordon.*

## Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Nov. 5, 1928.*

*Frederick Edward Vesey Baines, his assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Frederick Edward Vesey Baines, of 2 Orchard Road, Blackheath, county of Kent, England, No. 70,782, dated October 6, 1908, and the notice of such proceeding sent by registered mail to the said Frederick Edward Vesey Baines at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Frederick Edward Vesey Baines, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Adjudicated Patents.

(C. C. A. N. J.) Straub patent, No. 1,212,840, for building block, *Held* valid and infringed. *Crozier-Straub* v. *Graham*, 28 F. (2d) 321.

(C. C. A. Ill.) Gardner patent, No. 1,450,032, for improvements in air compressor to supply air for automobile tires, claims 4, 14, 16, 20, 24, 42, 47, 49, and 51 *Held* invalid. *Wall Pump & Compressor Co.* v. *Gardner Governor Co.*, 28 F. (2d) 334.

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,588,174, E. A. Dewald, Method of making fintube heat exchangers, decided November 15, 1928, claim 1.

Pat. 1,008,468, H. N. Schramm, Universal chassis, decided November 15, 1928, claims 13, 14, 41, and 42.

Pat. 1,631,759, Rhoades and McKinley, Method and means for skimming glass, decided October 13, 1928, claims 1 and 4.

Pat. 1,675,599, L. G. Copeman, Sharp-freezing container for mechanical refrigerators, decided October 27, 1928, claims 8 and 10.

Final decision in interference has been rendered against the following trade-mark:

T. M. 119,656, Seeded raisins, dried peaches, pitted plums, figs, nectarines, apricots, and pears. Castle Bros. Registered December 11, 1917. Decided October 11, 1928.

# TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 4, 1928.

[VOL. 377. No. 1.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 265,741. ROBERT CHARLES WAGNER, doing business as Wagner Material & Coal Company, Champaign and Urbana, Ill. Filed May 1, 1928.




For Coal.
Claims use since Apr. 12, 1927.

Ser. No. 267,337. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Raw or Uncut Marble.
Claims use since May, 1927.

Ser. No. 271,956. C. D. BROWN & CO., INC., Rochester, N. Y. Filed Sept. 6, 1928.

kangola

For Finished Upper-Leather Calfskins.
Claims use since September, 1927.

Ser. No. 272,435. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Sept. 14, 1928.

VIT-A-TAN

No claim is made to the word "Tan" apart from the mark shown in the drawing.
For Leather.
Claims use since Jan. 15, 1928.

Ser. No. 272,447. VIRGINIA JELLICO COAL COMPANY, INC., Grays Knob, Ky., and Clairfield, Tenn. Filed Sept. 14, 1928.

KING MOUNTAIN

For Coal.
Claims use since 1913.

Ser. No. 272,592. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y. Filed Sept. 17, 1928.

BUCKINGHAM PALACE

For Lawn-Grass and Field Seeds.
Claims use since Sept. 1, 1928.

Ser. No. 272,679. THE STUVER BROS. COMPANY, Kenmore, Ohio. Filed Sept. 19, 1923.

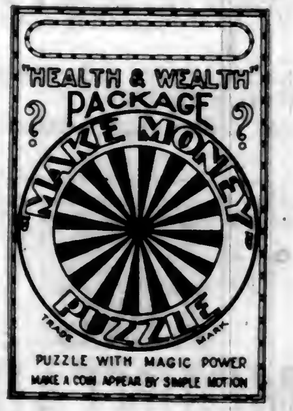



The word "Coal" is disclaimed apart from the other features of the mark shown in the drawing.
For Coal.
Claims use since Aug. 14, 1928.

## CLASS 2.

### Receptacles.

Ser. No. 269,893. FORTUNA PRODUCTS CO., Brooklyn, N. Y. Filed July 20, 1928.




No claim is made to the words "Package, Trade-Mark, Puzzle" and "Make a Coin Appear by Simple Motion" apart from the mark shown on the drawing.

For Paper, Cardboard, and Metal Containers for Cigarettes, Candy, Powder, Etc.

Claims use since May 18, 1928.

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## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 267,264. LANDER-WHITE CO., Oakland, Calif. Filed May 31, 1928.

**VELVET EDGE**

For Preparation Applied on Strops for Honing Surgical Instruments, Razors, Etc.

Claims use since Jan. 1, 1919.

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Ser. No. 268,414. AMERICAN LEATHER FINISH COMPANY, Boston, Mass. Filed June 21, 1928.

**TOP ALL**

The lining upon drawing is merely for the purpose of shading.

For Polishes and Cleaners for Shoes, Leather, Linoleum, and Similar Articles and for Soap in Both Liquid and Cake Form.

Claims use since May 15, 1928.

Ser. No. 271,568. WM. A. ROGERS, LIMITED, Toronto, Canada, and Niagara Falls, N. Y. Filed Aug. 25, 1928.




No claim is made to the words "Niagara Cream Paste" apart from the mark shown.

For Polish for Gold, Silver, Plated Ware, Glass, and like materials.

Claims use since Aug. 29, 1914.

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Ser. No. 271,760. H. W. KINGSTON, doing business as H. W. Kingston Co., St. Paul, Minn. Filed Aug. 30, 1928.

**SUNFLEX**

For Washing Powder.

Claims use since May 11, 1928.

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Ser. No. 272,357. SHIELDS & WYLE, INC., Jersey City, N. J. Filed Sept. 13, 1928.

**PASTO**

For Hand Soap and for a Cleanser for General Household Cleaning.

Claims use since June 5, 1928.



Ser. No. 272,459. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928. Under 10-year proviso.

BEHR-MANNING
BROOKLYN
FLINT PAPER




All wording except "Behr-Manning" and "Brooklyn" is disclaimed apart from the mark shown on the drawing.

For Abrasive Papers and Cloths.

Claims use since Aug. 14, 1928.

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Ser. No. 272,465. BEHR-MANNING CORPORATION, Green Island, Troy, N. Y. Filed Sept. 15, 1928.

BEHR-MANNING
WATERPROOF
SILICON CARBIDE




All wording except "Behr-Manning" is disclaimed apart from the mark shown on the drawing.

For Abrasive Papers and Cloths.

Claims use since Aug. 8, 1928.

Ser. No. 272,774. SOPAX PRODUCTS COMPANY, East Monongahela, Pa. Filed Sept. 21, 1928.

**SOPAX**

For Cleansing Compound Having Incidental Water-Softening Properties.

Claims use since July 15, 1928.

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Ser. No. 272,864. THE CLIMAX CLEANER MANUFACTURING COMPANY, Cleveland, Ohio. Filed Sept. 24, 1928.

**IDEAL**

For Cleaner for Wall Paper, Window Shades, Calcimine, and Fresco.

Claims use since about Jan. 1, 1923.

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Ser. No. 272,890. FREDERICK F. INGRAM COMPANY, Detroit, Mich. Filed Sept. 24, 1928.




Applicant disclaims the words "Shaving Cream" apart from the mark as shown. The lining shown indicates the color blue.

For Shaving Cream.

Claims use since about July 1, 1924.

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Ser. No. 273,865. THE FISCHER SOAP & OIL COMPANY, Cincinnati, Ohio. Filed Oct. 16, 1928.

**EKOMIZER**

For Soap.

Claims use since Apr. 1, 1928.

## CLASS 6.

### Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 240,002. PINAUD, INCORPORATED, New York, N. Y. Filed Nov. 12, 1926.




The word "Paris" is disclaimed apart from the mark as shown in the drawing.

For Toilet Vinegar, Sachet, Brilliantine, Pomade, and Quadruple Essence of Essential Oil.

Claims use since about 1886.

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Ser. No. 249,971. ILLINOIS COSMETICS CO., Chicago, Ill. Filed June 3, 1927.

FLAPPER

For Face Powder and Cold Cream.
Claims use since Dec. 1, 1916.

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Ser. No. 256,512. F. M. EUGENE BLASS, doing business as E. Am. Ass'n for Oxygen-Therapy, New York, N. Y. Filed Oct. 24, 1927.

MENSTRUALIN

For Preventative of All Complaints Usually Accompanying Menstruation, Digestive Help in Tablet and Powder Form Taken Thru the Mouth.

Claims use since April, 1924.

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Ser. No. 258,850. JOHN SHERIDAN, Chicago, Ill. Filed Dec. 9, 1927.

ULCICUR

For Medicinal Compound for Ulcers of the Stomach, Acidosis, Indigestion, Sour Stomach, and Gastritis.

Claims use since Mar. 17, 1924.

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Ser. No. 261,017. CAREY PATTERSON, Evanston, Ill. Filed Feb. 1, 1928.

SKILL-SO SKILL-SO

For Preparation for Treating the Hair and Scalp.
Claims use since Sept. 1, 1927.

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Ser. No. 269,373. CLAUDE C. TANNER, doing business as The Ra-Dac Company, St. Joseph, Mo. Filed July 10, 1928.

Ra-dac

For Medicinal Preparation for the Treatment of Indigestion, Gastritis, Dyspepsia, Bloating, Ulcerated and Other Abnormal Conditions of the Stomach.

Claims use since about Jan. 1, 1928.

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Ser. No. 270,848. MARCEL KRAFT, doing business as Marcel Laboratories and Fraicheur Products, San Francisco, Calif. Filed Aug. 10, 1928.




The words "Shampoo, Hygienic, Invigorating, Reviving" are disclaimed apart from the mark as shown.

For Shampoo.

Claims use since Apr. 1, 1928.

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Ser. No. 270,892. SOCIETE INDUSTRIELLE DES PRODUITS MELASSES, Marseille, France. Filed Aug. 11, 1928.

NEOGUM

For Flour Made from Grains and Beans Used in the Preparation, Treatment, and Finishing of Textiles, Paper, Leather, and Colloidal Material in Powder Form Used for Perfumery, Cosmetics, Tablets, Pastes, Powders, and Pharmaceutical Specialties.

Claims use since Jan. 8, 1926.



Ser. No. 270,980. SOCIETE ANONYME BERTIMAY, Paris, France. Filed Aug. 13, 1928.




The drawing is not lined for color. The parallel horizontal lines represent water.

For Face Powders, Face Creams, Toilet Waters, Rouges, Lip Sticks, Eyebrow Pencils, Perfumes, Deodorizing Preparations, Talcum Powders, Sachets.

Claims use since Apr. 12, 1928.

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Ser. No. 271,150. SOCIÉTÉ RAPIDASE, Seclin, France. Filed Aug. 16, 1928.

BATINASE

For Artificial Bate for Leathers and Skin.
Claims use since Feb. 24, 1928.

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Ser. No. 271,296. "CRISTALLO" A.-G., Thusis, Switzerland. Filed Aug. 20, 1928.




For Preparation for Stimulating Metabolism.
Claims use since April, 1928.

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Ser. No. 271,319. SKELLY OIL COMPANY, Tulsa, Okla. Filed Aug. 20, 1928.

SKELGAS

For Liquefied Petroleum Gas, Compressed Gas, Compressed Natural Gas, Liquefied Propane, Liquefied Butane, and Liquefied Ethane.

Claims use since June 25, 1928.

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Ser. No. 271,410. PAUL SANGER, Tulsa, Okla. Filed Aug. 22, 1928.

HAY-FE-GO

For Preparation Used in the Relief of Hay Fever.
Claims use since about Nov. 10, 1927.

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Ser. No. 271,450. Möyatad Möller & Co. A/S., Oslo, Norway. Filed Aug. 28, 1928.

SAGA

For Cod-Liver Oil.
Claims use since May 1, 1928.

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Ser. No. 271,466. ALLEN & HANBURYS, LIMITED, London, England. Filed Aug. 24, 1928.

BYNOTONE

For Medicinal Food for Use in Malnutrition of Infants, Adolescents, and Adults and as a Safeguard Against Deficiency Diseases.

Claims use since 1920.

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Ser. No. 271,490. L. ALBERTO GUAJARDO, San Antonio, Tex. Filed Aug. 24, 1928.




All wording with the exception of the notation "Del Comanche" is disclaimed apart from the mark as shown in the drawings.

For Antidiabetic Tea in the Treatment of the Intestines, Liver, Kidneys, Pancreas, and Bladder.

Claims use since Jan. 1, 1927.

Ser. No. 271,546. M. JEROME FISCHER, doing business as Raylax Raisin Company, Tulsa, Okla. Filed Aug. 25, 1928.

RAYLAX

For Medicated Raisins for Use in the Treatment of Constipation.
Claims use since July 23, 1928.

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Ser. No. 271,611. GEORGE A. MADISON, St. Paul, Minn. Filed Aug. 27, 1928.

Fagg

For Mouth Tablets, Mouth-Wash Liquid, and Mouth-Wash Powder, a Medicated Compressed Candy Tablet Containing a Peroxide, the Same to Be Dissolved in the Oral Fluids, for the Purpose of Making the Mouth Alkaline, Removing Stains From the Teeth, and Correcting the Odor and Taste of Cigarettes.
Claims use since Oct. 22, 1927.

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Ser. No. 271,756. SIGRID C. HALESTRAP, Buffalo, N. Y. Filed Aug. 30, 1928.

Halli

For Cleansing Cream, Tissue Cream, Muscle Oil, Vanishing Cream, Astringent Cream, Face-Cleansing Lotion, Acne Lotion, Astringent Lotion, Hand Cream, Face Powder, and Cold Cream.
Claims use since January, 1927.

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Ser. No. 271,811. ORTON A. JOHNSON, doing business as The Ortono Co., Washington, D. C. Filed Aug. 31, 1928.

SUPERIOR ORAL PRODUCTS
O R A L
OF PURITY AND EFFICACY
TRADE MARK

No registration rights are claimed for the words "Superior, Oral, Products, Of, Purity, And, Efficacy, Trade, Mark," or letters "O R A L" apart from the complete mark shown in the drawing.
For Analgesic Capsule and a Nose-Drop Solution.
Claims use since Aug. 1, 1928.

Ser. No. 271,916. PHILIPPE N. BOUDREAULT, doing business as Dr. Lambert Medical Co., Montreal, Canada, and Lowell, Mass. Filed Sept. 5, 1928.




Applicant disclaims the word "Syrup." The mark consists of the words "Dr. J. O. Lambert's," a portrait of Dr. Lambert, deceased, and a facsimile of his signature.
For Cough Syrup.
Claims use since July 1, 1903.

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Ser. No. 272,030. LESLIE A. HOUSE, doing business as Click, Not Inc., Elmhurst, Ill. Filed Sept. 7, 1928.




For Medicinal Preparations for Aches and Pains, Headache, Earache, Toothache, Rheumatism, Neuralgia, and Periodical Pains and Colds, and as a Sore-Throat Gargle.
Claims use since Jan. 1, 1928.

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Ser. No. 272,135. CALIFORNIA PERFUME CO. INC., New York, N. Y. Filed Sept. 10, 1928.

GERTRUDE RECORDON'S

For Perfumes, Face and Toilet Powder, Cold Cream, Cleansing Cream, Skin Cream, Skin Lotions, Lip Sticks, and Face Rouge.
Claims use since Oct. 10, 1927.



Ser. No. 272,257. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed Sept. 12, 1928.




The drawing is lined to indicate the colors blue and black, which are claimed as features of the mark. No claim is made to the individual words "Makes Cotton Look and Feel Like Linen" except as combined, the exclusive use of all of the other wording, with exception of the word "Linit," being disclaimed apart from the mark shown.
For Starch for Laundry and Bathing Purposes.
Claims use since Aug. 28, 1928.

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Ser. No. 272,333. HARDEMAN-KING COMPANY, Oklahoma City, Okla. Filed Sept. 18, 1928.

Meritine

For Insecticides.
Claims use since May 15, 1928.

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Ser. No. 272,534. ROLLA W. GRAVES, Longmeadow, Mass. Filed Sept. 17, 1928.



The picture is that of Rolla W. Graves.
For Suppositories for the Treatment of Piles; Ointment for Piles, Ulcers, Fissures, Cuts, and Burns; Ointment for Treatment of Eczema, Skin Diseases, Cracked Sore Hands and Feet, Dandruff, and Crusts and Scales; and Liniment for External Use.
Claims use since Jan. 1, 1908.

Ser. No. 272,556. H. Q. Z. COMPANY, San Francisco, Calif. Filed Sept. 17, 1928.




All wording with the exception of the letters "H Q Z" are disclaimed apart from the mark shown in the drawing.
For Hair and Scalp Oil Wash.
Claims use since Oct. 1, 1927.

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Ser. No. 272,664. LOUIS A. KREIS, doing business as The Lowila Laboratories, Buffalo, N. Y. Filed Sept. 19, 1928.

Lowila

For Medicinal Preparations Containing Vitamines and Used to Promote Growth Through Stimulation of Appetite and Assimilation of Nourishment.
Claims use since June 27, 1928.

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Ser. No. 272,896. ANGEL POLY, Brookline, Mass. Filed Sept. 24, 1928.

POLY-ANGEL

For Face Powder, Rouge, Lip Stick; Massage, Lemon, Tissue, and Bleaching Creams; Perfumes, Toilet Water, Skin Cream, Lotions, Shampoo, Pomades, Water-Wave Lotion, Eyebrow Pencil, and Antiseptic Cream.
Claims use since June 6, 1928.

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Ser. No. 272,909. STERIL MANUFACTURING COMPANY, Omaha, Nebr. Filed Sept. 24, 1928.




No claim is made for the words "Pre-Injection" and "Preservative-Blood Solvent" apart from the mark as shown in the drawing.
For Embalming Fluid.
Claims use since June 15, 1928.

Ser. No. 272,928. THEO BROOKS, doing business as Brooks Drug Store, Denton, Tex. Filed Sept. 25, 1928.

Brooks' Livo-work

For Medicine for Use in the Treatment of the Liver.
Claims use since Aug. 1, 1928.

Ser. No. 272,964. SAMUEL LEWIS SUMMERS, Whitemarsh Township, Pa. Filed Sept. 25, 1928.

AMISAL

For Medicinal Compound Useful as a Systemic Antisepsis and as a Solvent of Uric Acid and for the Treatment of Rheumatism and Gout.
Claims use since May 29, 1928.

Ser. No. 272,991. MORRIS LESSINGER, doing business as Milo Chemical Co., Brooklyn, N. Y. Filed Sept. 26, 1928.

CONCROIDS

For Antiseptic and Prophylactic Vaginal Suppositories.
Claims use since January, 1925.

Ser. No. 273,015. WILLIAM A. RIGNEY, Newark, N. J. Filed Sept. 26, 1928.

Bon-Lax

For Medicinal Compounds for Constipation, Nervous and Sick Headache, and Bilious Disorders.
Claims use since Mar. 9, 1928.

Ser. No. 273,072. L. T. PIVER, INC., Wilmington, Del., and New York, N. Y. Filed Sept. 27, 1928.

MASCARADE

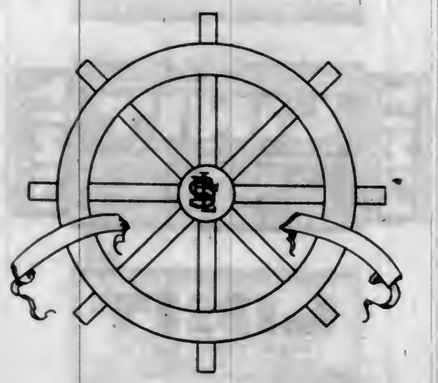
For Perfume Extracts.
Claims use since Sept. 11, 1928.

Ser. No. 273,101. CURRAN LABORATORIES, INC., New York, N. Y. Filed Sept. 28, 1928.

Jo-cur

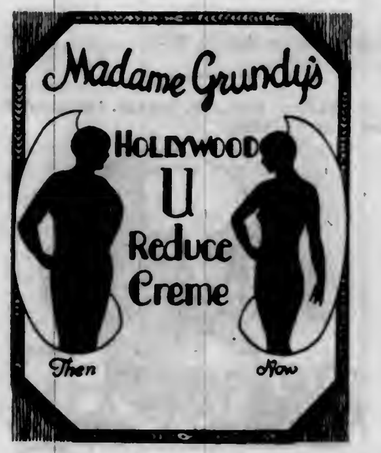
For Water-Waving Lotion for Hair, Hairdressing, Brilliantine, Cold Cream, Astringent Lotion, Hand Lotion, Rouge, Face Powder, Nail Polish, Liquid Nail-Polish Remover, Liquid Cuticle Remover, Liquid Nail White, Cuticle Oil, and Shampoo Concentrate.
Claims use since September, 1924.

Ser. No. 273,193. S. B. LEONARDI & CO. INC., New Rochelle, N. Y. Filed Oct. 1, 1928.



For Preparations for the Treatment of Chronic Rheumatism, Gout, Pimples, Boils, Conditions of the Blood Which Require an Alterative Medicine, Ague; Intermittent, Remittent, and Continued Malarial Fevers; Biliousness, Constipation, Sick Headache Caused by Torpid Liver; Coughs Due to Common Colds, Tickling of Throat, Bronchial Irritation, and Throat Discomfort; Irritated, Inflamed, Smarting, and Bloodshot Eyes; Rheumatic Pains, Sore and Strained Muscles, Sprains, Inflammation, and Bruises, Round Worms in Children, of Conditions where an Antiseptic and Germicide is Indicated, Sunburn, Burns, Rashes, Insect Bites, and Skin Affections and Eruptions, Prickly Heat, Chafing, and Foot Troubles.
Claims use since June 21, 1900.

Ser. No. 273,232. MADAME GRUNDY'S HOLLYWOOD U REDUCE CREME CO., Sacramento, Calif. Filed Oct. 2, 1928.




The lining shown on the drawing represents shading only. The words "Hollywood," "Reduce Creme," "Then" and "Now" are disclaimed apart from the mark as shown.
For Reducing Cream.
Claims use since Aug. 22, 1928.



Ser. No. 273,399. WILLIAM JOSEPH HARVEY, Dallas, Tex. Filed Oct. 5, 1928.

Aspir-Ease.

For a Medicinal Preparation in Tablet Form for Treating Tonsilitis, Sore Throat, Headache, Coughs, Colds, Rheumatism, and Neurnigia.
Claims use since Jan. 1, 1927.

Ser. No. 273,467. MANUEL MARIN & CO., Mayagues, P. R. Filed Oct. 6, 1928.

AMPOLLAS VITAL
FERRUGINOSO

No claim is made to the words "Ampollas" and "Ferruginoso" disassociated from the mark as shown.
For General Tonic.
Claims use since on or about Dec. 10, 1926.

Ser. No. 273,472. MIDWEST CHEMICAL PRODUCTS, INC., Milwaukee, Wis. Filed Oct. 6, 1928.



For Scientific Purge and Preservative for Interior of Boilers.
Claims use since Sept. 10, 1928.

Ser. No. 273,511. PARKE, DAVIS & CO., Detroit, Mich. Filed Oct. 8, 1928.

UROXYL

For Diuretics.
Claims use since about Sept. 20, 1928.

Ser. No. 273,515. ROXANA PETROLEUM CORPORATION, St. Louis, Mo. Filed Oct. 8, 1928.

SHELL-ANE

For Gas in Portable Tanks for the Production of Light, Heat, and Power.
Claims use since about Aug. 6, 1928.

Ser. No. 273,533. WINSTON AND NEWELL COMPANY, Minneapolis, Minn. Filed Oct. 8, 1928.

18-K

For Salt and Gloss or Laundry Starch.
Claims use since Jan. 1, 1916.

Ser. No. 273,605. THE WM. S. MERRELL COMPANY, Cincinnati, Ohio. Filed Oct. 10, 1928.

THIATE

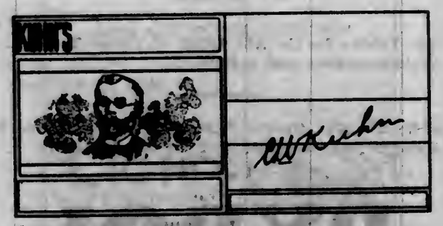
For Liquid Cough Preparation.
Claims use since Oct. 1, 1928.

Ser. No. 273,623. ASSOCIATED PHARMACISTS OF MASSACHUSETTS, INC., Salem, Mass. Filed Oct. 11, 1928.

Epsul
Ty-nee

For Epsom-Salts Compound.
Claims use since Nov. 1, 1926.

Ser. No. 273,659. KUHN REMEDY COMPANY, Chicago, Ill. Filed Oct. 11, 1928.




The portrait shown as a part of the mark is that of William Kuhn, deceased, who is one of the incorporators of The Kuhn Remedy Co., and the signature is that of the president of corporation.
For Medicine for the Treatment of Rheumatism.
Claims use since August, 1907.

Ser. No. 273,663. N. J. LABORATORY SUPPLY CO., Newark, N. J. Filed Oct. 11, 1928.

ZIOTONE

For Analgesic Salves.
Claims use since Sept. 14, 1928.

Ser. No. 274,142. ISADOR RALPH WEINSTOCK, doing business as Thyrole Chemical Co., Philadelphia, Pa. Filed Oct. 22, 1928.

OBC

For Preparation to Aid in the Elimination of Excessive Fat.
Claims use since on or about May, 1918.

Ser. No. 274,144. BONWIT LENNON & COMPANY, INC., Baltimore, Md. Filed Oct. 23, 1928.




The picture of the woman is fanciful.
For Perfumery.
Claims use since Oct. 19, 1928.

Ser. No. 274,157. J. MARSHALL HUBBARD, doing business as J. Hubbard & Co., Boston, Mass. Filed Oct. 23, 1928.

GERMINTS

For Tablets for the Alleviation of Throat Troubles.
Claims use since Jan. 4, 1928.

Ser. No. 274,176. GEORGE B. SCOTT, doing business as The Pyrol Co., New York, N. Y. Filed Oct. 23, 1928.

PYROL

For Hair and Scalp Preparations.
Claims use since May, 1928.

Ser. No. 274,238. JOSEPH A. SCHWARTZ, doing business as Schwartz Chemical Company, Washington, D. C. Filed Oct. 24, 1928.




The portrait consists of Mrs. Norma E. Schwartz, deceased. No claim is made to the word "Salve."
For General Antiseptic, Soothing and Healing Salve.
Claims use since Sept. 1, 1928.

Ser. No. 274,350. ELI LILLY AND COMPANY, Indianapolis, Ind. Filed Oct. 26, 1928.

SOMITAL

For Medicinal or Pharmaceutical Preparation—Namely, a Crystalline Powder Which will be Used in Aqueous Solution Parenterally to Produce Anesthesia.
Claims use since Oct. 20, 1928.

Ser. No. 274,363. THOMAS EDWIN SMITH, doing business as Virginia Maid Hair Dressing Co., Portsmouth, Va. Filed Oct. 26, 1928.




For Hair-Straightening Preparation Useful Also in the Treatment of Falling Hair, Dandruff, Scalp Diseases, and Chapped Hands.
Claims use since Mar. 6, 1928.

Ser. No. 274,382. COLLAPSULE COMPANY, INC., New York, N. Y. Filed Oct. 27, 1928.

Bismudol

For Medicinal and Pharmaceutical Preparations—Namely, Antiluetics.
Claims use since May 25, 1925.

Ser. No. 274,407. SPICER AND COMPANY, Glendale, Calif. Filed Oct. 27, 1928.

ESPINOL

For Ointment for the Treatment of Psoriasis, Eczema, and Various Skin Diseases.
Claims use since Sept. 4, 1928.



Ser. No. 274,408. SPICER AND COMPANY, Glendale, Calif. Filed Oct. 27, 1928.

PROTIODIN

For Alterative Product.
Claims use since Sept. 28, 1928.

Ser. No. 274,436. JOHN N. COLE, doing business as The Soovain Co., Los Angeles, Calif. Filed Oct. 29, 1928.

SOOVAIN

For Preparation for the Treatment and Relief of Headache, Neuralgia, Neuritis, Grippe, Lumbago, Toothache, Sciatica, and Nervousness, Backache, and Periodical Pains.
Claims use since February, 1926.

## CLASS 8.

### Smokers' Articles, Not Including Tobacco Products.

Ser. No. 270,219. EDWARD E. BROSIUS, Seattle, Wash. Filed July 23, 1928.




For Cigarette Holders.
Claims use since Mar. 1, 1927.

Ser. No. 272,402. HIRSCHL & BENDHEIM, Washington, Mo. Filed Sept. 14, 1928.




For Tobacco-Smoking Pipes.
Claims use since July, 1928.



## CLASS 9.

### Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 274,385. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 27, 1928.

AGRITOL

For Dynamite.
Claims use since Mar. 1, 1928.

## CLASS 10.

### Fertilizers.

Ser. No. 261,725. THE WOODVILLE LIME PRODUCTS CO., Toledo, Ohio. Filed Feb. 15, 1928.



CLOVER KROP

No claim is made to the word "Krop" apart from the mark shown.
For Lime for Agricultural Use.
Claims use since 1916.

## CLASS 11.

### Inks and Inking Materials.

Ser. No. 260,526. POHLMEYER, INC., Wallington, N. J. Filed Jan. 23, 1928.

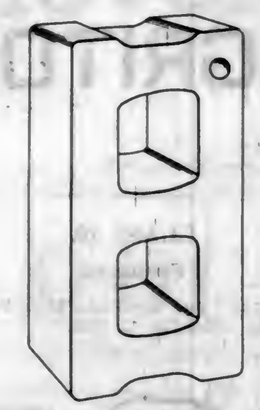



The words "Waterproof Drawing Inks" are disclaimed apart from the mark and word "Lion" as shown.
For Black and Colored Drawing Inks.
Claims use since June, 1928.

## CLASS 12.

### Construction Materials.

Ser. No. 248,547. BERGEN BUILDING BLOCK COMPANY, Ridgefield Park, N. J. Filed May 6, 1927.



The mark consists of a circular depression in the block having no structural function. No claim is made to the representation of the goods.

For Concrete Building Blocks Formed Wholly or in Part of Cinders, Sand, Gravel, or Crushed Rock.

Claims use since Sept. 1, 1924.

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Ser. No. 267,339. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Cut and Dressed Marble for Construction, Ornamental, or Artistic Purposes, Mosaic Marble for Construction and Ornamental Purposes, and Marble in Thin Sheets.

Claims use since May, 1927.

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Ser. No. 271,013. STANDARD MATERIALS CO., Bloomfield, N. J. Filed Aug. 14, 1928.

STANWAY HOMES

No claim is made to the exclusive use of the word "Homes" apart from the mark shown.

For Floor Beams, Studs, Rafters, Siding, Door Frames, and Window Frames of Wood or the Like.

Claims use since Apr. 18, 1927.

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Ser. No. 272,056. REESE METAL WEATHER STRIP COMPANY, Minneapolis, Minn. Filed Sept. 7, 1928.

Flexo—Seal

For Weather Strip.

Claims use since on or about Sept. 1, 1927.

## CLASS 13.

### Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 270,119. EDWARD KATZINGER COMPANY, Chicago, Ill. Filed July 25, 1928.

NEOLOY

For Base-Metal Pie Plates, Cake Pans, and Household Culinary Molds.

Claims use since June 5, 1928.

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Ser. No. 271,858. EDWARD KATZINGER COMPANY, Chicago, Ill. Filed Sept. 1, 1928.

EKCOWARE

For Base-Metal Bowls, Pans, Pots, Kettles, Cake Stands, Funnels, Strainers, Mugs, Dippers, Jelly Moulds, Hooks, and Pie Plates.

Claims use since July 1, 1928.

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Ser. No. 273,031. JENNIE WALZ TURNER, Los Angeles, Calif. Filed Sept. 26, 1928.

GRANTALVE

For Valves—Namely, Toilet-Flush-Tank Valves, Earthquake Shut-Off Valves, Instantaneous Gas Valves for Hot-Water Boilers, Storage-Tank Valves, Low-Pressure Shut-Off Valves and Fuse Shut-Off Valves.

Claims use since Sept. 11, 1928.

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Ser. No. 273,760. BIRMINGHAM TANK COMPANY, Birmingham, Ala. Filed Oct. 13, 1928.

BIRSEP

For Septic Tanks.

Claims use since May 1, 1928.

## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 269,448. DOEHLER DIE-CASTING CO., New York, N. Y. Filed July 12, 1928.




For Die-Casting Metal and Die Castings.

Claims use since December, 1927.



## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 269,180. CARBIDE & CARBON CHEMICALS CORPORATION, New York, N. Y. Filed July 6, 1928.

VINYLITE

For Ready-Mixed Paints and Paint Enamels, Varnishes, and Lacquers.

Claims use since about Nov. 15, 1927.

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Ser. No. 271,989. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

NU-TURPS

No claim is made to the word "Turps" apart from the mark as shown in the drawing.

For Hydrocarbon Turpentine Substitute.

Claims use since Oct. 20, 1924.

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Ser. No. 272,429. RAYMOND'S INC., Boston, Mass. Filed Sept. 14, 1928.




For Varnishes, Prepared Shellac, Ready-Mixed Paints, Paint Oil, Putty, and Japan Colors Used in Painting.

Claims use since Jan. 1, 1926.

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Ser. No. 272,745. THE ARCO COMPANY, Cleveland, Ohio. Filed Sept. 21, 1928.

ARCOLOID

For Lacquers.

Claims use since December, 1925.

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Ser. No. 273,113. THE PAYSON VARNISH CO., New York, N. Y. Filed Sept. 28, 1928.

P.V.C.

For Paste, Semipaste, and Ready-Mixed Paints, Varnishes, Paint Enamels, Lacquers, Japan Driers, and Japans in the Nature of Paint Colors and Pigments.

Claims use since Apr. 6, 1928.

Ser. No. 273,371. ALBERT F. HUGHES, doing business as Hum-Ding-Er Mfg. Co., Cleveland, Ohio. Filed Oct. 4, 1928.

HUM-DING-ER

For Polish and Cleaner for Painted, Enameled, Varnished, and Lacquered Surfaces.

Claims use since Sept. 25, 1928.

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Ser. No. 273,391. AMERICAN DISINFECTING COMPANY, Sedalia, Mo. Filed Oct. 5, 1928.

Perma Shyne

For Liquid Wax Preparation for Use in Polishing Floors, Furniture, Woodwork, and Smooth-Surface Floor Coverings.

Claims use since Aug. 17, 1928.

## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 256,354. W. N. MATTHEWS CORPORATION, St. Louis, Mo. Filed Oct. 20, 1927.




The vertical hatching in the drawing represents the color red.

For Motor and Hand Propelled Trucks.

Claims use since about January, 1923.

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Ser. No. 269,102. DUFFIELD MOTOR CO., Des Moines, Iowa. Filed July 5, 1928.




For Automobiles, Motor-Driven Trucks, and Constructive Parts Thereof.

Claims use since Jan. 18, 1928.

Ser. No. 269,856. PEERLESS MOTOR CAR CORPORATION, Cleveland, Ohio. Filed July 19, 1928.



The vertical shading represents red, and horizontal shading represents blue.

For Automobiles.

Claims use since Apr. 23, 1928.

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Ser. No. 270,914. THE CLEVELAND PNEUMATIC TOOL COMPANY, Cleveland, Ohio. Filed Aug. 13, 1928.




No claim is made to the word "Westinghouse" apart from the mark as shown.

For Air Springs for Vehicles.

Claims use since on or about Feb. 12, 1927.

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## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 272,398. FRIER STEEL COMPANY, St. Louis, Mo. Filed Sept. 14, 1928.

GOZYTOWN

For Toy Houses and Garages.

Claims use since May 1, 1928.

## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 171,983. BESSIRE & COMPANY, Indianapolis, Ind. Filed Nov. 14, 1922.




No claim is made to the word "Products" or to the name "Bessire & Company" except in connection with the trade-mark as shown.

For Tools and Machinery Comprising a Line of Tools and Machinery Such as Employed by Ice-Cream Manufacturers, Bakers, Confectioners, Creameries, and Dairies—Namely, Can Steamers, Bottle Washers, Bottle Fillers, Bottle Cappers, Can Scrapers, Pasteurizers, Coolers, Aerators, Churns, Batch Mixers, Ice Breakers, Ice Crushers, Ice-Cream Freezers, Ice-Cream Cutters, Can Washers, Ice Picks, Ice Shovels, Ice-Cream Dishers, Ice-Cream Spoons, Bakers' Knives, Cake and Cooky Cutters, Cake Fillers, Grating and Slicing Machines, Food Choppers, Bread and Pie Cases, Candy Knives, Candy Shears, Cream and Egg Whips, Ice Tongs.

Claims use since 1918.

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Ser. No. 248,054. PENN LEATHER COMPANY, Philadelphia, Pa. Filed Apr. 27, 1927.

HYDRO

For Presses for Cementing Soles to Shoes.

Claims use since January, 1926.

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Ser. No. 264,861. THE BABCOCK MANUFACTURING COMPANY, Leonardsville, N. Y. Filed Apr. 16, 1928.




No claim is made to the words "of Leonardsville" apart from the mark as shown.

For Harrows.

Claims use since Feb. 15, 1928.



Ser. No. 264,862. THE BABCOCK MANUFACTURING COMPANY, Leonardsville, N. Y. Filed Apr. 16, 1928.

WEED HOG

For Harrows.

Claims use since Feb. 15, 1928.

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Ser. No. 269,553. SANDERS MFG. CO., Nashville, Tenn. Filed July 13, 1928.

NICK

For Vending Machines.

Claims use since Dec. 1, 1927.

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Ser. No. 270,821. OLIVER BRACH, doing business as Sandusky Nut Company, Sandusky, Ohio. Filed Aug. 10, 1928.

SAVE-DRILL

For Drill Chucks.

Claims use since on or about Dec. 6, 1927.

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Ser. No. 272,767. THE LINEAWEAVER-STROUP SOAP COMPANY, Cleveland, Ohio. Filed Sept. 21, 1928.

SAV-A-SOAP

The word "Soap" is disclaimed apart from the mark as shown on the drawing.

For Automobile Laundry Apparatus—Namely, Means for Generating and Storing a Soap Solution for Use in Cleaning Automobiles.

Claims use since June 6, 1928.

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## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 272,845. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood, Cincinnati, Ohio. Filed Sept. 24, 1928.

HY-LO

For Laundry Washing Machines.

Claims use since Sept. 5, 1928.

## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 256,355. W. N. MATTHEWS CORPORATION, St. Louis, Mo. Filed Oct. 20, 1927.




The lining denoting the color red is used.

For Air Gauges.

Claims use since about January, 1923.

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Ser. No. 264,407. AGFA ANSCO CORPORATION, Binghamton, N. Y. Filed Apr. 6, 1928.




Applicant claims registrations No. 41,689, issued Dec. 22, 1903; No. 41,995, issued Feb. 2, 1904; No. 98,456, issued July 21, 1914; No. 102,779, issued Feb. 23, 1915; No. 205,723, issued Nov. 17, 1925.

For Sensitized Photographic Paper.

Claims use since Jan. 1, 1927.

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Ser. No. 264,410. AGFA ANSCO CORPORATION, Binghamton, N. Y. Filed Apr. 6, 1928.



Applicant claims registrations No. 41,689, issued Dec. 22, 1903; No. 41,995, issued Feb. 2, 1904; No. 98,456, issued July 21, 1914; No. 102,779, issued Feb. 23, 1915; No. 205,723, issued Nov. 17, 1925.

For Sensitized Photographic Paper.

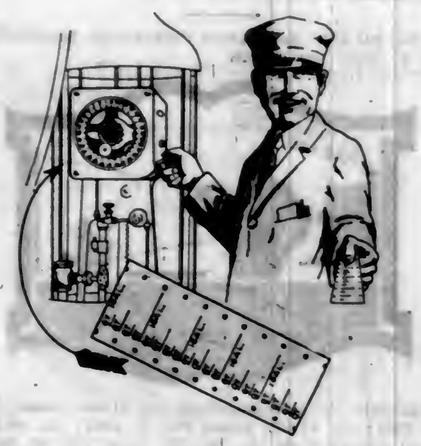
Claims use since Jan. 1, 1927.

Ser. No. 269,299. NICHOLAS F. LAMBERTY, Chicago, Ill. Filed July 9, 1928.

Lamberty
PORTO-DRAFT

For Mechanical Drafting Board with Devices Mounted Thereon for Longitudinal Measurements and Degrees.
Claims use since Dec. 1, 1927.

Ser. No. 270,038. ARTHUR R. MASON, San Francisco, Calif. Filed July 23, 1928.



All representation of goods and of the tickets and all printed matter thereon forms no part of the trade-mark and are disclaimed.
For Indicating and Recording Mechanism for Liquid-Dispensing Pumps.
Claims use since May 1, 1928.

Ser. No. 273,213. TAYLOR INSTRUMENT COMPANIES, Rochester, N. Y. Filed Oct. 1, 1928.

Thermoguide

For Thermometers.
Claims use since Sept. 5, 1928.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 266,264. OLD NEW ENGLAND CRAFTSMEN, INC., Newburyport, Mass. Filed May 11, 1928.



For Hollow and Flat Silverware.
Claims use since Feb. 1, 1928.

## CLASS 29.

### Brooms, Brushes, and Dusters.

Ser. No. 267,586. MASAICHI KAWAMOTO, Honolulu, Territory of Hawaii. Filed June 6, 1928.

MA-I-KA-I- TOOTH BRUSH

Applicant disclaims exclusive right to the word "Toothbrush" apart from the mark as shown in the drawing.
For Toothbrushes.
Claims use since Apr. 1, 1927.

Ser. No. 270,345. PETER J. O'BRIEN, New York, N. Y. Filed July 30, 1928.




No claim is made to the words "Brush Handle Shield."
For Paint and Varnish Brushes.
Claims use since July 1, 1928.



## CLASS 31.

### Filters and Refrigerators.

Ser. No. 273,913. EASTERN SALES COMPANY, West Chester, Pa. Filed Oct. 17, 1928.

ESCO

For Milk-Cooling Cabinets.
Claims use since January, 1926.

## CLASS 32.

### Furniture and Upholstery.

Ser. No. 272,720. KIDDY KAGE COMPANY, Portland, Oreg. Filed Sept. 20, 1928.

*"A Safety Zone all its own"*

For Baby Pens or Corrals.
Claims use since May 15, 1928.

Ser. No. 273,362. COLONIAL CABINET MANUFACTURING CO. INC., Ozone Park, N. Y. Filed Oct. 4, 1928.

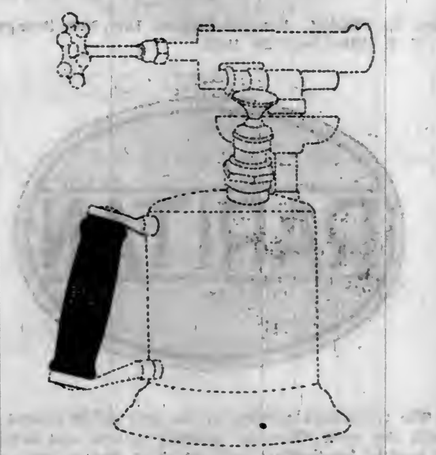
Colonial
PARLO-DINE
Tables

Applicant disclaims any right to the exclusive use of the word "Tables" apart from the mark as shown in the drawing.
For Tables for Domestic Use.
Claims use since June 1, 1928.

## CLASS 34.

### Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 272,256. CLAYTON & LAMBERT MANUFACTURING CO., Detroit, Mich. Filed Sept. 12, 1928.



The trade-mark consists of a gold band applied transversely around the handle grip of the torch and bordered on each side by a band of red. No claim is made to the representation of the torch as shown in the dotted lines in the drawing.
For Blowtorches.
Claims use since Aug. 13, 1928.

## CLASS 35.

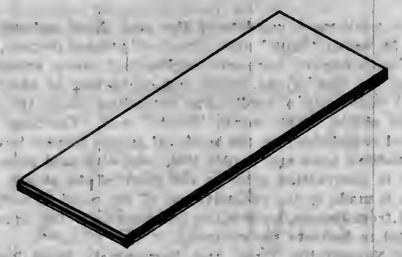
### Belting, Hose, Machinery Packing, and Non-metallic Tires.

Ser. No. 266,186. LUTHER BLOMQUIST, Gowrie, Iowa. Filed May 10, 1928.

BRAKOLINE

For Detachable Brake Lining.
Claims use since Mar. 26, 1928.

Ser. No. 271,138. MILLER MOTORS SPECIALTIES, INC., Dallas, Tex. Filed Aug. 16, 1928.



No claim is made to the representation of the sheet material shown in the drawing. The trade-mark consists

of the color combination white, blue, and white on the edges of the packing material and made to appear there by forming the material of three layers of rubber of these colors.

For Tire Patches.

Claims use since May 3, 1928.

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Ser. No. 273,006. RARITAN RUBBER, INC., New Brunswick, N. J. Filed Sept. 26, 1928.



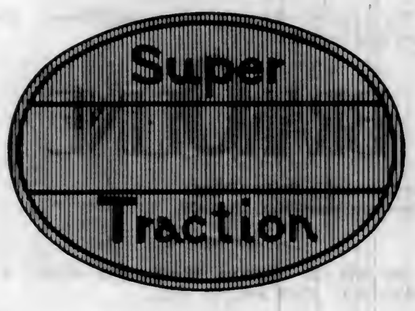

The trade-mark consists of the oval shield colored red with the word "Raritan" printed thereon and enclosed in parallel longitudinal lines, which at their opposite ends contact with a border line extending about the edge of the shield. Said word and lines are made in contrasting color to the color of the shield. No claim is made to the exclusive use of the word "Raritan" apart from the mark shown in the drawing. The drawing is lined to indicate the color red.

For Nonmetallic Tires, Particularly Solid Rubber Tires.

Claims use since Sept. 1, 1926.

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Ser. No. 273,007. RARITAN RUBBER, INC., New Brunswick, N. J. Filed Sept. 26, 1928.




The trade-mark consists of the oval shield colored red with the words "Super" and "Traction" printed thereon, and two spaced-apart parallel longitudinal lines extending across the face of the shield and contacting at their opposite ends with a border line extending about the edge of the shield. The words "Super" and "Traction" are located respectively in the semioval spaces formed by said longitudinal lines and border line, and with said lines are made in contrasting color to the color of the shield. No claim is made to the exclusive use of the word "Traction" apart from the mark shown in the drawing. The drawing is lined to indicate the color red.

For Nonmetallic Tires, and Particularly Solid Rubber Tires.

Claims use since Mar. 1, 1928.

Ser. No. 273,013. J. E. RHOADS & SONS, Philadelphia, Pa. Filed Sept. 26, 1928.




## WATERSHED

Applicant claims ownership of registered trade-mark Certificates No. 65,028, issued Sept. 3, 1907; No. 118,221, issued Aug. 21, 1917; No. 118,222, issued Aug. 21, 1917; No. 141,802, issued Apr. 26, 1921. No claim is made to the word "Watershed" apart from the mark as shown.

For Leather Belting.

Claims use since Oct. 5, 1925.

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### CLASS 37.

### Paper and Stationery.

Ser. No. 273,195. MABIE TODD & CO., New York, N. Y. Filed Oct. 1, 1928.

## Swallow

For Fountain Pens and Mechanical Pencils.

Claims use since Feb. 8, 1923.

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Ser. No. 273,222. BAKER PAPER COMPANY, Oshkosh, Wis. Filed Oct. 2, 1928.

## BAKER'S DURATEX DRY STENCIL

The words "Dry Stencil" are disclaimed apart from the mark shown on the drawing.

For Dry Stencils for Mimeographic Machines.

Claims use since Dec. 22, 1926.

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Ser. No. 273,481. THE TAIT PAPER AND COLOR INDUSTRIES, INC., Glens Falls, N. Y. Filed Oct. 6, 1928.

## FASTOLITE

For Wall Paper.

Claims use since on or about December, 1906.

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Ser. No. 273,790. ADDRESSING TYPEWRITER STENCIL CORP., New York, N. Y. Filed Oct. 15, 1928.

## TYPE-O-RITE

For Typewriter Stencils.

Claims use since July 3, 1928.



Ser. No. 273,951. WM. G. WILLMANN PAPER CO. INC., New York, N. Y. Filed Oct. 17, 1928.

## WILCO

For Printing and Writing Paper

Claims use since January, 1927.

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Ser. No. 274,247. WHITING-PLOVER PAPER CO., Stevens Point, Wis. Filed Oct. 24, 1928.

## FORTIFIED

For Printing and Writing Paper, Including Bond Paper, Ledger Paper, and Safety Paper.

Claims use since Dec. 5, 1919.

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### CLASS 38.

### Prints and Publications.

Ser. No. 248,178. JAMES LESLIE HUBBELL, Cleveland, Ohio. Filed Apr. 29, 1927.




For Printed Advertising Matter Sold to the Trade as Such—Namely, Catalogue Sheets—and Printed Pictures Arranged in Consecutive Order to Indicate Action as Presented Successively.

Claims use since Jan. 10, 1927.

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Ser. No. 267,374. MORRIS MINKUS, New York, N. Y. Filed June 2, 1928.

## THE LITTLE WEBSTER

18000 WORDS

LILIPUT DICTIONARY

119

No claim is made to the exclusive use of the words "The Little Webster, 18000 Words, Dictionary" apart from the mark as shown in the drawing.

For Dictionaries.

Claims use since 1924.

Ser. No. 272,086. UNIVERSAL CREDIT CORPORATION, Detroit, Mich. Filed Sept. 8, 1928.




For Letterheads and Blank Forms.

Claims use since Apr. 18, 1928.

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Ser. No. 272,946. MAGAZINE PUBLISHERS, INC., New York, N. Y. Filed Sept. 25, 1928.

## Western Trails

For Monthly Magazine.

Claims use since July 23, 1928.

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Ser. No. 273,158. PHONOGRAPH PUBLICATIONS CO. INC., New York, N. Y. Filed Sept. 29, 1928.

TALKING MACHINE & RADIO WEEKLY

For Trade Publication Issued Weekly.

Claims use since Sept. 12 1928.

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Ser. No. 273,456. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 6, 1928.

## Popular Television

For Magazine Section.

Claims use since Sept. 24, 1928.

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Ser. No. 273,812. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn. Filed Oct. 15, 1928.

## MECHANICS AND INVENTIONS

For Magazine Published Every Month.

Claims use since Sept. 1, 1928.

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Ser. No. 273,813. FAWCETT PUBLICATIONS, INC., Robbinsdale, Minn. Filed Oct. 15, 1928.

## TRUE Love Affairs

For Magazines Published Every Month.

Claims use since Oct. 1, 1928.

## CLASS 39.

### Clothing.

Ser. No. 224,323. DAVID & BLUM, INC., New York, N. Y. Filed Dec. 7, 1925.

LE GANT "WASHFINE" DB MARQUE DEPOSEE GRENOBLE & NEW-YORK MADE IN FRANCE

Applicant makes no claim to the words "Le Gant, Marque Deposee" apart from the mark shown in drawing. No claim is made to the right to the exclusive use of the expression "Made in France" and "Grenoble and New York."

For Leather Gloves.

Claims use since Nov. 1, 1925.

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Ser. No. 247,258. BLOSSOM PRODUCTS, INC., New York, N. Y. Filed Apr. 11, 1927.

BLOSSOM RAY

For Bloomers; Men's, Women's, and Children's Union Suits of Knitted and Woven Fabrics; Pajamas, Bathing Suits, Gymnasium Bloomers, Running Pants, Pantalets, Knickers, Rompers, and Creepers.

Claims use since on or about Nov. 26, 1926.

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Ser. No. 250,353. M. M. BERNSTEIN & SONS, New York, N. Y. Filed June 11, 1927.

FASHIONRAY Undies

No claim is made to the word "Undies" apart from the mark shown in the drawing.

For Ladies' and Misses' Underwear—Namely, Bloomers, Brassières, Step-Ins, Chemises, Combination Shirt and Drawers, Slips of Knitted, Netted, and Textile Fabric.

Claims use since May 5, 1927.

Ser. No. 251,320. CATALINA HATS, INC., San Francisco, Calif. Filed June 30, 1927.

For Ladies' and Misses' Hats.

Claims use since Feb. 9, 1926.

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Ser. No. 256,208. PHILLIPS-BAKER RUBBER CO., Providence, R. I. Filed Oct. 17, 1927.

The word "Goodyear" is disclaimed apart from the mark shown in the drawing. The trade-mark is lined to indicate the color black.

For Rubber Boots and Shoes.

Claims use since Sept. 10, 1927.

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Ser. No. 256,209. PHILLIPS-BAKER RUBBER CO., Providence, R. I. Filed Oct. 17, 1927.

GOODYEAR DIAMOND

The word "Goodyear" is disclaimed apart from the mark shown on the drawing. The drawing is lined to denote the color blue.

For Rubber Boots and Shoes.

Claims use since Sept. 10, 1927.



Ser. No. 259,427. MILTON SCHUMAN, doing business as Art Neckwear Company, Philadelphia, Pa. Filed Dec. 28, 1927.

ART KNIT

Applicant disclaims exclusive right to the use of the words "Knit" and "Art" except as shown in the trade-mark.

For Men's Ties, Women's Ties, Both of Knitted, Netted, and Textile Fabrics, and Mufflers of Knitted Fabrics.

Claims use since Jan. 1, 1919.

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Ser. No. 269,259. HERBERT ROTHSTEIN, INC., New York, N. Y. Filed July 7, 1928.

RUGGED

For Ladies' Coats, Suits, and Cloaks.

Claims use since Apr. 1, 1928.

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Ser. No. 269,773. FRANK G. DELBON, Brooklyn, N. Y. Filed July 18, 1928.



The right to exclusive use of the expression "Sien-Tiffick" apart from the particular arrangement and association in which it appears with the rest of the mark is disclaimed. The outline is indicative of an insole or an outer sole of a shoe and is shown in order to locate the trade-mark, which does not reside in such outline. Therefore the representation of the insole or the outer sole is disclaimed.

For Leather Shoes.

Claims use since about May 21, 1928.

Ser. No. 270,454. ARNOLD, CONSTABLE & CO., INC., New York, N. Y. Filed Aug. 2, 1928.

The ARNOLTON

For Women's and Children's Coats, Suits, Overcoats, Hats, Vests for Outer Wear, and Cloaks.

Claims use since Jan. 1, 1926.

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Ser. No. 270,795. HAMILTON-WADE COMPANY, Brockton, Mass. Filed Aug. 9, 1928.

Snuggetts

For Retaining Devices for Pumps, Slippers, and Such Like Footwear.

Claims use since May 12, 1928.

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Ser. No. 271,251. HERBERT W. HANAN, doing business as Hanan & Son, Brooklyn, N. Y. Filed Aug. 18, 1928. Under section 5b of the act of 1905 as amended in 1920.

HANAN & SON

Applicant is the owner of registrations No. 50,970 and No. 53,143, issued under the 10-year proviso.

For Hosiery for Men, Women, and Children.

Claims use since July 1, 1923.

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Ser. No. 271,416. ABBOTT-ARMSTRONG-ABBOTT INC., Auburn, Me. Filed Aug. 23, 1928.

ARCH LIFE

For Shoes of Leather and Fabrics and Combinations Thereof.

Claims use since Sept. 18, 1925.

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Ser. No. 272,400. GOOD VALUE HAT & CAP CO., INC., New York, N. Y. Filed Sept. 14, 1928.

"Lone Eagle"

For Children's Hats and Caps.

Claims use since about July 1, 1928.

Ser. No. 272,486. PHIL GOLINKO CORPORATION, New York, N. Y. Filed Sept. 15, 1928.

**Ranger**

For Children's and Juniors' Dresses and Skirts Made of Textile Fabrics.
Claims use since Sept. 1, 1928.

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Ser. No. 273,183. CHATHAM HAT CO. INC., New York, N. Y. Filed Oct. 1, 1928.




For Ladies' and Misses' Hats.
Claims use since Aug. 15, 1928.

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Ser. No. 273,211. LEW SUGARMAN, doing business as Sugarman Hat Company, San Francisco, Calif. Filed Oct. 1, 1928.




For Ladies' and Misses' Hats.
Claims use since Aug. 7, 1928.

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Ser. No. 273,498. KAHN TAILORING CO., Indianapolis, Ind. Filed Oct. 8, 1928.




For Men's Outer Wearing Apparel—Namely, Coats, Vests, Trousers, Suits, Overcoats, and Topcoats.
Claims use since Sept. 1, 1928.

Ser. No. 273,547. HANDMACHER-MICHAEL COMPANY, Chicago, Ill. Filed Oct. 9, 1928.

**ANDEAN**

For Men's, Women's, and Children's Coats.
Claims use since July 1, 1928.

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Ser. No. 273,699. THE HA-BER-SAN MANUFACTURING CORPORATION, New York, N. Y. Filed Oct. 12, 1928.

**STYLERITE**

For Men's and Boys' Dress and Negligee Shirts and Pajamas.
Claims use since about Aug. 6, 1928.

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## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 266,665. THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928.

**MILADY**

For Hairpins.
Claims use since May 2, 1928.

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## CLASS 41.

### Canes, Parasols, and Umbrellas.

Ser. No. 273,237. LORD & TAYLOR, New York, N. Y. Filed Oct. 2, 1928.

**MOORLAND**

For Umbrellas and Canes.
Claims use since on or about Dec. 2, 1927.



## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 263,668. POSTER PARTS COMPANY, Terre Haute, Ind. Filed Mar. 23, 1928.

**ANTI SCRAPE**

For Cotton Fabric in the Piece.
Claims use since Feb. 20, 1928.

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Ser. No. 264,759. KOPS BROS. INC., New York, N. Y. Filed Apr. 13, 1928.

**Breez-Tex**

For Textile Fabrics—Namely, Linen, Cotton, Woolen, and Silk Piece Goods.
Claims use since Mar. 15, 1928.

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Ser. No. 266,818. KNICKERBOCKER SILK CO., New York, N. Y. Filed May 22, 1928.

**MAURETTE CREPE**

No claim is made to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Maurette Crepe.
Claims use since May 4, 1928.

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Ser. No. 267,046. DREY, SIMPSON & COMPANY LIMITED, South Reddish, Stockport, and Manchester, England. Filed June 7, 1928.

**CAMOTEX**

For Camel-Hair Fabric Sold in the Piece for Use in the Manufacture of Overcoats.
Claims use since February, 1927.

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Ser. No. 273,756. ARTLOOM CORPORATION, Philadelphia, Pa. Filed Oct. 13, 1928.




For Textile Rugs.
Claims use since Sept. 30, 1924.

Ser. No. 274,241. STEPHEN SANFORD & SONS, INC., Amsterdam, N. Y. Filed Oct. 24, 1928.

**Pershärak**

For Rugs and Carpets of a Tapestry Weave.
Claims use since Oct. 17, 1928.

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Ser. No. 274,251. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 25, 1928.

**Nuvel**

For Pile Fabrics in the Piece.
Claims use since July 28, 1928.

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Ser. No. 274,252. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 25, 1928.

**Modevel**

For Pile Fabrics in the Piece.
Claims use since Oct. 22, 1928.

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Ser. No. 274,253. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 25, 1928.

**Velglo**

For Pile Fabrics in the Piece.
Claims use since Oct. 15, 1928.

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Ser. No. 274,255. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 25, 1928.

**Velombre**

For Pile Fabrics in the Piece.
Claims use since Oct. 15, 1928.

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Ser. No. 274,257. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 25, 1928.

**Shelray**

For Pile Fabrics in the Piece.
Claims use since May 31, 1928.

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Ser. No. 274,293. J. L. STIFEL & SONS, Wheeling, W. Va. Filed Oct. 25, 1928.

**WHIRLWIND**

For Cotton Piece Goods.
Claims use since Oct. 11, 1928.

Ser. No. 274,309. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Oct. 26, 1928.

**Celvet**

For Pile Fabrics in the Piece.
Claims use since Oct. 24, 1928.

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Ser. No. 274,410. S. STEIN & Co., New York, N. Y. Filed Oct. 27, 1928.

**SUPER-LLAMORA**

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since Jan. 1, 1928.

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Ser. No. 274,458. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*A Show Boat on the Mississippi*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,459. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*Early American Transportation*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,460. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*Covered Wagons Oregon Trail*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,462. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*Life of George Washington*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,463. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*The Life of Lincoln*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,464. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*Betsy Ross — Liberty Bell*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,465. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 29, 1928.

*"Spirit of Seventy Six"*

For Silk Piece Goods.
Claims use since September, 1927.

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Ser. No. 274,498. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Borga**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,499. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Brenta**

For Woolen Piece Gooda.
Claims use since Sept. 10, 1928.

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Ser. No. 274,500. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Breva**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,501. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Carma**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,503. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Dameena**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,504. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Elda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,507. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Flissa**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.



Ser. No. 274,508. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Forsta**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,509. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Forstona**

For Woolen Piece Goods.
Claims use since Sept. 15, 1928.

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Ser. No. 274,510. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Frya**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,512. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Garna**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,513. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Hamara**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,514. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Hetta**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,515. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Holta**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,517. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Iorda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,518. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Kashmirgalla**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,521. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Listra**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,522. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Lokka**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,523. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Lora**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,524. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Lorda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

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Ser. No. 274,525. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Lunda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,526. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Makura**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,527. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Manda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,528. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Marka**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,529. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Raffa**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,530. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Ramsa**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,531. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Roona**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,532. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Russa**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,533. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Smola**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,534. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Svana**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,535. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Telga**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,536. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Tromsa**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,538. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Valla**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,539. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Vega**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,540. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

**Verda**

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.



Ser. No. 274,566. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 30, 1928.

**Franklin's Key to Electricity**

For Silk Piece Goods.
Claims use since September, 1927.

Ser. No. 274,567. H. R. MALLINSON & Co. INC., New York, N. Y. Filed Oct. 30, 1928.

**Memories of the Alamo**

For Silk Piece Goods.
Claims use since September, 1927.

## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 252,002. VATTENBORG SYSTEMS, INC., Seattle, Wash. Filed July 13, 1927.

**Vättenborg**

For Colon Irrigators.
Claims use since Mar. 1, 1927.

Ser. No. 270,595. KNOTT & GARLLUS, Detroit, Mich. Filed Aug. 4, 1928.

**Vita**

For Massaging Machine.
Claims use since about July 1, 1927.

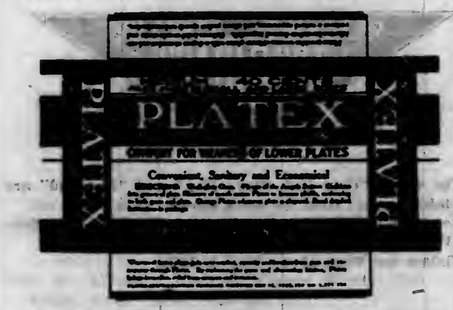
Ser. No. 271,927. WALTER R. ENDOT, Los Angeles, Calif. Filed Sept. 4, 1928.




The lining appearing on the drawing is for shading purposes only.
For Therapeutic Appliances—Namely, Prostatic Normalizers.
Claims use since on or about Aug. 25, 1926.

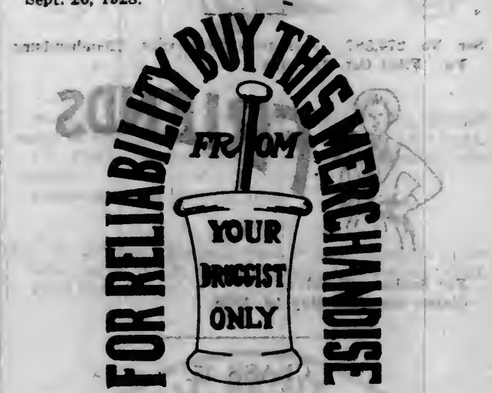


Ser. No. 272,427. PLATEX LABORATORIES, INC., Chattanooga, Tenn. Filed Sept. 14, 1928.




No claim is made to the wording appearing upon the drawing or to the carton outline, the mark of this application being the design appearing upon the carton.
For Pads for Cushioning False Teeth While in the Mouth.
Claims use since about Aug. 25, 1928.

Ser. No. 272,702. VIVIAN W. CRAWLEY, Chicago, Ill. Filed Sept. 20, 1928.




Applicant disclaims the wording appearing on the drawing apart from the mark as shown.
For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Sept. 11, 1928.

Ser. No. 273,215. GEORGE STARR WHITE, Los Angeles, Calif. Filed Oct. 1, 1928.

**CHEMO—CHROMATIC**

Exclusive use of the word "Chromatic" per se when standing alone and apart from the other features of the mark is disclaimed.
For Light and Heat Ray Filters of Metal or Cloth, or Both, Used for Therapeutic Purposes.
Claims use since May 1, 1924.

Ser. No. 273,216. GEORGE STARR WHITE, Los Angeles, Calif. Filed Oct. 1, 1928.

**VIG-O-RAY**

For Cloths for Filtering Light Rays Used for Therapeutic Purposes.
Claims use since Mar. 1, 1928.

Ser. No. 273,368. THE HALLAM CORPORATION, Pittsburgh, Pa. Filed Oct. 4, 1928.

GETS HOT STAYS HOT TORRIDAIRE HOT PAD

The words "Gets Hot, Stays Hot," and "Hot Pad" are disclaimed apart from the mark shown.

For Chemical Heating Pad Which is Used for Therapeutic Purposes.

Claims use since about Aug. 1, 1928.

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Ser. No. 273,550. SAMUEL D. KRAMER, doing business as Kramer Novelty Co., New York, N. Y. Filed Oct. 9, 1928.

LE CYGNE

For Infant Pacifiers.

Claims use since about July, 1928.

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Ser. No. 274,387. FRIENDS CORPORATION, Chambersburg, Pa. Filed Oct. 27, 1928.



FRIENDS

For Sanitary Napkins.

Claims use since May 14, 1928.

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## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 264,643. THE CHARLES E. HIRES COMPANY, Philadelphia, Pa. Filed Apr. 10, 1928.

Hires

A New Delight

Applicant claims registrations No. 24,058, issued Jan. 16, 1894; and No. 54,465, issued June 26, 1906. No claim is made to the words "Pale and Mellow" except as associated with the other features of the mark.

For Nonalcoholic, Maltless Beverage Flavored with Plant Juices Sold as a Soft Drink.

Claims use since Mar. 25, 1928.

Ser. No. 267,781. MULVIHILL-GOODWINE COMPANY, doing business as Chesterfield Dry Ginger Ale Co., Chicago, Ill. Filed June 9, 1928.

CHESTERFIELD

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Syrups, Extracts, and Concentrates for Making the Same; Ginger Ale, Carbonated Beverages, Fountain Sirups, Bottlers' Sirups, and Extracts.

Claims use since June 1, 1926.

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Ser. No. 272,514. OSCAR C. SCHAFFER, doing business as Birchade Co., Bethlehem, Pa. Filed Sept. 15, 1928.




The word "Birchade" is disclaimed apart from the other features of the mark as displayed in the drawing.

For Syrup Containing Birch Extract and Used in Making Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.

Claims use since May 7, 1928.

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Ser. No. 272,569. MERCEY COMPANY, San Francisco, Calif. Filed Sept. 17, 1928.

MERCEY

MENSTRUATONE

For Natural Water for the Treatment of Women's Ailments.

Claims use since Nov. 10, 1927.

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Ser. No. 274,392. INTERNATIONAL GINGER ALES CORPORATION, Boston, Mass. Filed Oct. 27, 1928.

PRINCE EDWARD

For Ginger Ales.

Claims use since May 1, 1928.



## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 206,108. EUVALDO MARTINEZ BRUGUIER, doing business as Bruguier & Trujillo, Seville, Spain. Filed Dec. 2, 1924.




Applicant disclaims any attempt to cover in this registration the words "Brand, Pure Virgin Olive Oil, Extra Fine, Net Contents 6 Gallons, Packed in Spain by," and "Seville, Spain" except in the precise relation and association in which they appear in the drawing.

For Olive Oil.

Claims use since Oct. 15, 1924.

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Ser. No. 235,523. PIZZO & LARAJA, New York, N. Y. Filed Aug. 3, 1926.

La Preferita



For Olive Oil.

Claims use since about June 15, 1924.

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Ser. No. 249,262. BLUE LABEL PRODUCTS CO., San Francisco, Calif. Filed May 20, 1927.

BLUE LABEL

No claim is made to a label colored blue.

For Malt Syrup.

Claims use since Feb. 17, 1927.

Ser. No. 252,006. WILMINGTON CREAMERY, Wilmington, Calif. Filed July 13, 1927.

Richmaid

For Ice Cream.

Claims use since May 2, 1927.

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Ser. No. 255,003. HARVARD PICKLE WORKS, INC., Cambridge, Mass. Filed Sept. 21, 1927.

HARVARD BRAND

H

No claim is made to the words "Harvard" and "Brand" except in association with the other features of the mark.

For Pickles, Onion Relish, Chowchow, Piccalilli, and Vinegar.

Claims use since Nov. 11, 1920.

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Ser. No. 255,948. THERESA HALL BROWN, executrix of the estate of L. V. W. Brown, deceased, Riverside, Calif. Filed Oct. 3, 1927.

FINEST EATING FRUIT ON EARTH

MAHALA

GROWN & PACKED BY L. V. W. BROWN RIVERSIDE CALIFORNIA.

Applicant disclaims the words "Finest Eating Fruit on Earth, Grown and Packed by L. V. W. Brown, Riverside, California," except in the precise relation and association shown.

For Fresh Citrus Fruits—Namely, Oranges, Grapefruit, and Tangerines.

Claims use since Jan. 15, 1906.

Ser. No. 255,949. THERESA HALL BROWN, executrix of the estate of L. V. W. Brown, deceased, Riverside, Calif. Filed Oct. 3, 1927.




Applicant disclaims the words "Finest Eating Fruit on Earth, Grown and Packed by L. V. W. Brown, Riverside, California," except in the precise relation and association shown.

For Fresh Citrus Fruits—Namely, Oranges, Grapefruit, and Tangerines.

Claims use since Jan. 15, 1906.

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Ser. No. 261,596. WING HING COMPANY, Honolulu, Territory of Hawaii, assignor to Wing Coffee Company, Honolulu, Territory of Hawaii. Filed Feb. 11, 1928.




The lining of drawing is for shading only.

For Coffee, Tea, and Fruit Preserved in Sugar, and Pickled Pineapple and Mango Chutney.

Claims use since Feb. 1, 1918.

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Ser. No. 263,755. EPPENS, SMITH COMPANY, New York, N. Y. Filed Mar. 26, 1928.

CHALLENGE
BRAND

No claim is made to the word "Brand" apart from the mark shown on the drawing.

For Tea Balls.

Claims use since January, 1928.

Ser. No. 265,679. NORTH-WESTERN PACKING CO., Chicago, Ill. Filed Apr. 30, 1928.

Security

For Sausage.

Claims use since Feb. 1, 1928.

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Ser. No. 266,120. MIHRAN BASMAJIAN, New York, N. Y. Filed May 9, 1928.




No claim is made to the reading matter appearing in the drawing except to "Mihran's" and "Mihran Basmajian" apart from the mark shown in the drawing.

For Condensed Milk of Gelatin Consistency Made of Pure Sour Milk.

Claims use since Jan. 1, 1928.

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Ser. No. 266,676. MAROTTA & CELLA, New York, N. Y. Filed May 19, 1928.

KING AND QUEEN

For Olive Oil, Canned Tomatoes, Canned Peas, Canned Tomato Paste, Rice, Macaroni, and Sardines.

Claims use since Jan. 29, 1928.

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Ser. No. 268,213. COLLINS-HENCKE CANDY CO., San Francisco, Calif. Filed June 18, 1928.

"DOUBLE FLUFF"

For Marshmallows for Eating and for Use in Making Cake.

Claims use since Apr. 9, 1928.

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Ser. No. 268,286. IMPORTERS & ROASTERS ASS'N. INC., New York, N. Y. Filed June 19, 1928.

HYEST

For Malt, Malt-Syrup Extracts and Food-Flavoring Extracts, Teas and Coffees, Cacao, and Spices.

Claims use since January, 1920.



Ser. No. 269,051. GERBER BROS., Brooklyn, N. Y. Filed July 3, 1928.

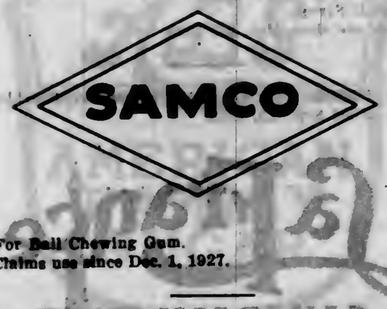
Gerbro

For Canned Fruits, Canned Vegetables, Canned Fish, Canned Fruits for Salad, Olive Oil, Cider Vinegar, Tomato Catsup, Food-Flavoring Extracts, Bottled Olives, Bottled Cherries, Pickles, Spices, Peach Preserves, Strawberry Preserves, Raspberry Preserves, Peanut Butter, Barley, Rice, and Sour Relish Made of Chopped Pickles, Cauliflower, Onions, Cabbage, Tomatoes, Red and Green Peppers, Vinegar, and Sugar.

Claims use since June 8, 1928.

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Ser. No. 269,554. SANDERS MFG. CO., Nashville, Tenn. Filed July 13, 1928.




For Ball Chewing Gum.

Claims use since Dec. 1, 1927.

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Ser. No. 270,157. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Filed July 26, 1928.

Tobler

The trade-mark is the facsimile signature of Theodor Tobler, who is the president of the corporation.

For Cocoa, Chocolate, Chocolate Candy and Bonbons, Condensed Milk, Evaporated Milk, and Cheese.

Claims use since March, 1928.

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Ser. No. 270,765. BOSTON FOOD PRODUCTS COMPANY, Brighton, Mass. Filed Aug. 8, 1928.

PRUDENCE

For Baked Beans; Baked Beans with Tomato Sauce; Brown Bread; Codfish Balls; Corned Beef; Corned-Beef Hash; Hamburger Steak and Onions; Head Cheese; Kidney Stew; Lunch Tongue; Minced Collops; Minced Steak; Oxtails; Oxtongue; Roast and Boiled Beef; Roast-Beef Hash; Roast Mutton; Sausage Meat; Sausage; Sausage Country Style; Sausage Meat Country Style; Sausage Oxford Style; Sausage Meat Oxford Style; Sausage Vienna Style; Soup and Bouilli; Beef Stew and Lamb Stew; Sliced Dried Beef; Veal Loaf; Beef Steak and Onions; Fried Meat Cakes; Mutton in Cabbage; Peas, Beef, and Pork; Meat Balls; Meat Puddings; Jams and Fruit Preserves; Marmalades; Chicken a la King; Welsh Rarebit; Shrimp a la Newburg; Lobster a la Newburg; Rice Pudding; Spaghetti Italienne; Liver and Bacon; Liver Paste; Liver Spread; Beef Suet; Brawn; Tripe.

Claims use since Apr. 9, 1920.

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Ser. No. 271,057. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

BESS BAKUR

For Molasses.

Claims use since July, 1928.

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Ser. No. 271,062. S. M. MAYER, Jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Filed Aug. 15, 1928.

SAMMY

For Molasses and Cane Syrup.

Claims use since July, 1928.

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Ser. No. 271,443. ABRAHAM KRASNE, doing business as A. Krasne, New York, N. Y. Filed Aug. 23, 1928.




Exclusive use of the words "Certified" and/or "Foods of Quality" are disclaimed. The drawing is lined for red only.

For Tomatoes, Sauerkraut, Chowchow, Coffee, Vinegar, Cocoa, Dill Pickles, Pickles, Sweet Mixed Pickles, Evaporated Milk, Unsweetened Evaporated Milk, Sweet Gherkins, Sweet Relish, Cherries, Spinach, Succotash, Refugee Beans, Golden Wax Beans, Sweet Corn, Bantam Corn, Lima Beans, Asparagus Tips, Asparagus, Sweet Peas, Tuna, Shrimp, Salmon, Bartlett Pears, Fruits for Salad, Sliced Peaches, Peaches, Hawaiian Pineapple, Apricots, Loganberries, Sour Onions, Blackberries, Strawberries, Apple Sauce, Royal Anne Cherries.

Claims use since January, 1928.

Ser. No. 272,303. PI-NETTE COMPANY, Benton, Ill. Filed Sept. 12, 1928.

PI-NETTE

For Frozen-Fruit Confections.
Claims use since about May 1, 1928.

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Ser. No. 272,535. FLOYD R. BEITMAN, doing business as Bettybud Food Products Company, Indianapolis, Ind. Filed Sept. 17, 1928.

Bettybud

For Jelly, Jam, Mincemeat; Relishes Composed of Chopped Vegetables, Vinegar, and Sugar; and Relishes Including the Same Ingredients with Pimentos and Red Pepper Added; and Horse-Radish Mustard.
Claims use since July 1, 1928.

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Ser. No. 272,781. VERMONT MAPLE SYRUP CO. INC., Burlington, Vt. Filed Sept. 21, 1928.

GOLD BOND

For Syrups—Namely, Maple Syrups.
Claims use since about the beginning of 1900.

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Ser. No. 272,954. PROVIDENCE MALT COMPANY, Providence, R. I. Filed Sept. 25, 1928.

Deutschland



No claim is made to the word "Deutschland" except in association with the other features of the mark.
For Malt Syrup.
Claims use since Mar. 24, 1928.

Ser. No. 272,956. PROVIDENCE MALT COMPANY, Providence, R. I. Filed Sept. 25, 1928.

German Beauty



The face of the girl is fanciful.
For Malt Syrup.
Claims use since Mar. 24, 1928.

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Ser. No. 272,957. PROVIDENCE MALT COMPANY, Providence, R. I. Filed Sept. 25, 1928.

La France

CANADIAN TYPE



No claim is made to the words "La France" nor the words "Canadian Type" except in association with the other features of the mark.
For Malt Syrup.
Claims use since July 15, 1928.

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Ser. No. 273,282. BENNETT DAY IMPORTING COMPANY, INC., New York, N. Y. Filed Oct. 8, 1928.

KING COLE BRITE

Applicant disclaims the right to the exclusive use of the word "Brite" apart from the mark as shown in the drawing.
For Fresh Nuts in the Shell and Shelled.
Claims use since Sept. 10, 1928.



Ser. No. 273,345. ROSEVILLE GROWERS SELECTED VINEYARDS, doing business as Roseville Grape Growers, Roseville, Calif. Filed Oct. 3, 1928.

Roseville Belle

For Fresh Grapes.
Claims use since Aug. 9, 1928.

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Ser. No. 273,433. AMERICAN BEET SUGAR COMPANY, Denver, Colo. Filed Oct. 6, 1928.

ABS BRAND AMERICAN FAMILY SUGAR

No claim is made to the exclusive use of the words "Brand" and "Sugar" apart from the mark shown in the drawing.
For Sugar.
Claims use since Apr. 1, 1920.

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Ser. No. 273,578. MEYER W. CHESS, doing business as Meyer W. Chess Brokerage Co., Pacoima and San Fernando, Calif. Filed Oct. 10, 1928.




The drawing is lined to show the color red.
For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Sept. 15, 1927.

Ser. No. 273,594. HORACE E. HAVENS doing business as Sunnylife Products Sales Agency, Chicago, Ill. Filed Oct. 10, 1928.

SUNNY LIFE

For Tomato Juice.
Claims use since Sept. 19, 1928.

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Ser. No. 273,680. THE BACHRACH-FELD CO., doing business as Mascot Sales Co., Cincinnati, Ohio. Filed Oct. 12, 1928.

MASCOT

For Malt Syrup.
Claims use since Dec. 23, 1926.

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Ser. No. 273,685. HELEN CRAVEN, Newark, N. J. Filed Oct. 12, 1928.

HELEN'S

"First A Taste, Then A Craven"

For Salad Dressing.
Claims use since June, 1928.

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Ser. No. 273,803. LOUIS COLUZZI, doing business as Sunkist Malt Co., Chicago, Ill. Filed Oct. 15, 1928.

RED MAN

For Malt Extracts and Food-Flavoring Extracts.
Claims use since Sept. 25, 1928.

Ser. No. 273,817. WALTER GEORGE HENLE, doing business as Blackhawk Extract Co., Davenport, Iowa. Filed Oct. 15, 1928.

Miracle

For Malt Extract.
Claims use since July 1, 1928.

Ser. No. 273,935. EDMUND B. QUINBY, doing business as The Peggy Ann Company, Tampa, Fla. Filed Oct. 17, 1928.

Peggy-Ann's

For Coffee, Mayonnaise, and Mayonnaise Relish.
Claims use since July, 1928.

Ser. No. 274,107. MILCO LIMITED, doing business as Vi-Tone Company, Limited, Hamilton, Ontario, Canada. Filed Oct. 23, 1928.

VI-TONE

For Tonic Drink in Powder Form Consisting of a Composition of Malt Milk and Chocolate.
Claims use since Sept. 20, 1924.

## CLASS 47.

### Wines.

Ser. No. 269,433. JOSEPH WILLIAM SOUTHER, doing business as California Wine Products Company, San Francisco, Calif. Filed July 11, 1928.

CAL-PEP

For Port and Sherry Wine Tonics.
Claims use since Aug. 27, 1927.

## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 256,928. HARRY R. GOETLOB, Maplewood, Mo. Filed Nov. 2, 1927.

ARBOR-AD

For Advertising Billboards.
Claims use since Feb. 1, 1927.

Ser. No. 271,193. NEW YORK SAILMAKING CORP., Brooklyn, N. Y. Filed Aug. 17, 1928.

SPELCOTE

For Waterproof Canvas.
Claims use since March, 1926.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 4, 1928.

250,170. PREPARATION FOR THE TREATMENT OF ASTHMA. O. W. DEAN, doing business as Korodyne Company, St. Joseph, Mich.
Filed July 16, 1928. Serial No. 269,641. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,171. CHEMICAL FOR OPENING AND CLEANSING DRAINS, SINKS, WASHBOWLS, AND THE LIKE. THE VISCO CHEMICAL PRODUCTS COMPANY, Cleveland, Ohio.
Filed July 14, 1928. Serial No. 269,617. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,172. DRILL CHUCKS, DRILLS, HAMMERS, AND RAZOR BLADES. STICKLER & MAGNUSON AKTIEBOLAG, Stockholm, Sweden.
Filed July 14, 1928. Serial No. 269,614. PUBLISHED SEPTEMBER 18, 1928. Class 23.

250,173. WHEAT AND SELF-RISING FLOUR. LAWRENCEBURG ROLLER MILLS CO., Lawrenceburg, Ind.
Filed July 14, 1928. Serial No. 269,592. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,174. DOUGHNUTS. EDWARD S. GOLDHILL, New York, N. Y.
Filed July 14, 1928. Serial No. 269,582. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,175. WOMEN'S, MISSES', AND CHILDREN'S DRESSES. MONNIG DRY GOODS COMPANY, Fort Worth, Tex.
Filed July 13, 1928. Serial No. 269,536. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,176. LAWN-GRASS SEED. THE J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio.
Filed July 13, 1928. Serial No. 269,535. PUBLISHED SEPTEMBER 18, 1928. Class 1.

250,177. LAWN-GRASS SEED. THE J. M. MCCULLOUGH'S SONS CO., Cincinnati, Ohio.
Filed July 13, 1928. Serial No. 269,534. PUBLISHED SEPTEMBER 18, 1928. Class 1.

250,178. HOSIERY. FINERY SILK STOCKING CO., INC., New York, N. Y.
Filed July 12, 1928. Serial No. 269,465. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,179. WHEAT FLOUR, MEAL, HORSE FEED, DAIRY FEED, STOCK FEED, AND POULTRY FEED. ARKADELPHIA MILLING CO., Arkadelphia, Ark.
Filed July 12, 1928. Serial No. 269,441. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,180. KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. AMAZON KNITTING COMPANY, Muskegon, Mich.
Filed July 11, 1928. Serial No. 269,382. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,181. KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. AMAZON KNITTING COMPANY, Muskegon, Mich.
Filed July 11, 1928. Serial No. 269,381. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,182. STOCKINGS FOR MEN, WOMEN, AND CHILDREN. RAYMOND LAZARD, Paris, France.
Filed July 10, 1928. Serial No. 269,356. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,183. ASTRINGENTS, CERATES, BLEACH CREAMS, ETC. PAUL BURKE JACOBS, doing business as Jaynard Cié, New York, N. Y.
Filed July 9, 1928. Serial No. 269,293. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,184. BOYS' AND MEN'S WORK, DRESS, AND NEGLIGEE SHIRTS. HORACE L. ALLEN MFG. CO., Nashville, Tenn.
Filed July 9, 1928. Serial No. 269,271. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,185. HEALING SALVES AND OINTMENTS, LINIMENTS FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, NEURALGIA, AND KINDRED AILMENTS; SKIN LOTIONS, ANTISEPTICS, AND DISINFECTANTS. RUSSIA CEMENT COMPANY, doing business as The Rabalm Company, Gloucester, Mass.
Filed July 7, 1928. Serial No. 269,260. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,186. HAIR TONIC AND PREPARATIONS FOR SKIN AFFECTIONS. GUISEPPE RAPPAZZO, Boston, Mass.
Filed July 6, 1928. Serial No. 269,205. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,187. ARTISTS' OIL COLORS. GUSTAV GILBERT, doing business as Art Importing Co., Philadelphia, Pa.
Filed July 6, 1928. Serial No. 269,188. PUBLISHED SEPTEMBER 18, 1928. Class 16.

250,188. PYORRHEA PREPARATION AND DENTIFRICE. FORHAN COMPANY, New York, N. Y.
Filed July 3, 1928. Serial No. 269,063. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,189. PHARMACEUTICAL PRODUCTS—NAMELY, ETHICAL MEDICINAL PREPARATION FOR PNEUMONIA, BRONCHITIS, PLEURISY, PHTHISIS, AND WHOOPING COUGH, AND OTHER PULMONARY AILMENTS; TYPHOID FEVER AND OTHER FEBRILE TOXÆMIAS. PNEUMO-PHTHYSINE CHEMICAL MANUFACTURING COMPANY, Chicago, Ill.
Filed July 3, 1928. Serial No. 269,056. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,190. PERFUME, TOILET WATER, FACE POWDER, TALCUM POWDER, FACE CREAMS, ROUGE, LIP STICKS, BRILLIANTINE, BATH SALTS, LOTION FOR THE SKIN AND HAIR, DENTIFRICES. SOCIÉTÉ MARTIAL ET ARMAND ET CIE., Paris, France.
Filed May 17, 1928. Serial No. 266,562. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,191. PREPARATION TO BE USED BY INJECTION IN TREATING PHTHISIS, CATARRH, BRONCHITIS, PNEUMONIA, PLEURISY, TUBERCULOSIS, AND CONGESTION OF THE RESPIRATORY TRACTS. MANUEL ALEXIADES, Madrid, Spain.
Filed May 16, 1928. Serial No. 266,450. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,192. GRANULAR, EFFERVESCENT PREPARATION CONSISTING OF A COMBINATION OF ALL THE MINERAL ELEMENTS OF THE BODY NECESSARY FOR THE PROPER FUNCTION OR HEALTH OF THE SKIN AND HAIR. HAIR & SCALP INSTITUTE, INC., Chicago, Ill.
Filed May 14, 1928. Serial No. 266,371. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,193. MEN'S AND BOYS' HUNTING COATS, HUNTING PANTS, HUNTING VESTS, FOOTBALL TROUSERS, BASKET-BALL UNIFORMS, BASE-BALL UNIFORMS, TRACK PANTS, AND TRACK SHIRTS. CULLUM & BOREN COMPANY, Dallas, Tex.
Filed May 14, 1928. Serial No. 266,356. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,194. METAL REFLECTORS. KARNAK CHEMICAL COMPANY, West Chester, Pa.
Filed May 11, 1928. Serial No. 266,253. PUBLISHED SEPTEMBER 4, 1928. Class 50.

250,195. NERVE TONIC, BLOOD PURIFIER, APPETITE INCREASER, AND GENERAL BODY-BUILDING TONIC. THE WEINBERGER DRUG COMPANY, doing business as The Kotar Chemical Company, Cleveland, Ohio.
Filed May 10, 1928. Serial No. 266,231. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,196. SHOE-TREES. SHOECRAFT SHOP INC., New York, N. Y.
Filed May 5, 1928. Serial No. 265,989. PUBLISHED AUGUST 28, 1928. Class 50.

250,197. BAKED STUFFS—NAMELY, BUNS AND ROLLS—AND SANDWICHES. CIRCLE LUNCH CORPORATION OF AMERICA, Reno, Nev., and Los Angeles, Calif.
Filed May 5, 1928. Serial No. 265,950. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,198. UNDERCUSHION FOR LINOLEUM AND CORK CARPETS. AMERICAN HAIR FELT COMPANY, Chicago, Ill.
Filed May 2, 1928. Serial No. 265,768. PUBLISHED AUGUST 14, 1928. Class 50.

250,199. SUGAR-CANE FOOD SYRUP. MEEKER SUGAR REFINING COMPANY, Chicago, Ill., and Meeker, La.
Filed April 27, 1928. Serial No. 265,489. PUBLISHED AUGUST 7, 1928. Class 46.

250,200. UNDERCUSHION FOR LINOLEUM AND CORK CARPETS. AMERICAN HAIR FELT COMPANY, Chicago, Ill.
Filed April 27, 1928. Serial No. 265,460. PUBLISHED AUGUST 14, 1928. Class 50.

250,201. CHARCOAL. TENNESSEE PRODUCTS CORPORATION, Nashville, Tenn.
Filed April 23, 1928. Serial No. 265,304. PUBLISHED AUGUST 21, 1928. Class 1.

250,202. WOMEN'S AND MISSES' COATS AND DRESSES. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed April 23, 1928. Serial No. 265,260. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,203. ANTISEPTIC DEODORANT PROPHYLACTIC IN LIQUID AND POWDER FORM, SCALP TONIC, DENTIFRICE, AFTER-SHAVING LOTION, AND TALCUM POWDER. HALOSINE COMPANY, Philadelphia, Pa.
Filed April 21, 1928. Serial No. 265,212. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,204. CAKES AND BREAD. CAPITAL CITY BAKING CO., Harrisburg, Pa.
Filed April 21, 1928. Serial No. 265,194. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,205. GROUND-WOOD PRODUCTS. THE BURNET COMPANY, New York, N. Y.
Filed April 20, 1928. Serial No. 265,138. PUBLISHED AUGUST 14, 1928. Class 1.

250,206. NONCONDUCTIVE PLASTIC MATERIAL. AMERICAN NUPLAX CORPORATION, Wilmington, Del.
Filed April 19, 1928. Serial No. 265,082. PUBLISHED SEPTEMBER 4, 1928. Class 1.

250,207. COAL. MIDLAND COAL SALES COMPANY, Cincinnati, Ohio.
Filed April 18, 1928. Serial No. 265,055. PUBLISHED SEPTEMBER 4, 1928. Class 1.

250,208. COAL. MIDLAND COAL SALES COMPANY, Cincinnati, Ohio.
Filed April 18, 1928. Serial No. 265,052. PUBLISHED SEPTEMBER 4, 1928. Class 1.

250,209. MEN'S AND BOYS' OUTER SHIRTS—NAMELY, DRESS AND NEGLIGEE SHIRTS—WOVEN AND KNITTED OF COTTON, SILK, AND WOOL AND COMBINATIONS THEREOF. ROTHSCHILD GREENFIELD CO., St. Louis, Mo.
Filed July 5, 1928. Serial No. 269,153. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,210. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,952. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,211. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,951. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,212. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,950. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,213. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,948. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,214. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,947. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,215. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,946. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,216. MEN'S AND BOYS' NEGLIGEE AND WORK SHIRTS. WORTHY MANUFACTURING COMPANY, Chicago, Ill.
Filed June 30, 1928. Serial No. 268,945. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,217. INK-REMOVING FLUID. UNIQUE MANUFACTURING CO., Tacony, Philadelphia, Pa.
Filed June 29, 1928. Serial No. 268,895. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,218. COATED FABRIC. TEXTILEATHER CORPORATION, Newark, N. J.
Filed June 29, 1928. Serial No. 268,893. PUBLISHED SEPTEMBER 4, 1928. Class 50.

250,219. SHEARED OR CLIPPED LAMBSKINS, RAW OR DRESSED. AMERICAN BROADTAIL CORPORATION, New York, N. Y.
Filed June 29, 1928. Serial No. 268,837. PUBLISHED SEPTEMBER 4, 1928. Class 1.

250,220. INSECTICIDES. GEORGE MCCLOSKEY, doing business as G. McC. Company, New Orleans, La.
Filed June 28, 1928. Serial No. 268,797. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,221. VARIOUS KINDS OF BRUSHES AND COUNTER DUSTERS. HANLON & GOODMAN CO., Belleville, N. J.
Filed June 28, 1928. Serial No. 268,784. PUBLISHED SEPTEMBER 18, 1928. Class 29.

250,222. WATERPROOF FABRIC. J. C. HAARTZ COMPANY, New Haven, Conn.
Filed June 28, 1928. Serial No. 268,783. PUBLISHED AUGUST 28, 1928. Class 50.

250,223. OVERALLS, WORK JACKETS, AND COVERALLS. CHARLESTON MANUFACTURING CO., Charleston, W. Va.
Filed June 28, 1928. Serial No. 268,772. PUBLISHED SEPTEMBER 11, 1928. Class 39.



250,224. BOYS' SUITS. J. TARTIKOFF & SONS, New York, N. Y.
Filed June 26, 1928. Serial No. 268,711. PUBLISHED SEPTEMBER 4, 1928. Class 39.

250,225. CLAY. PENN PRODUCTS CORPORATION, Aspers, Pa.
Filed June 26, 1928. Serial No. 268,699. PUBLISHED AUGUST 28, 1928. Class 1.

250,226. BREAD. MCGAVIN'S BREAD, INC., Denver, Colo.
Filed June 26, 1928. Serial No. 268,697. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,227. COAL. COLEMAN & COMPANY, INC., Philadelphia, Pa.
Filed June 26, 1928. Serial No. 268,678. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,228. STOMACH POWDER FOR USE AS AN ANT-ACID GAS ELIMINANT. SAMODAN COMPANY, San Antonio, Tex.
Filed June 25, 1928. Serial No. 268,635. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,229. DEODORANT AND DISINFECTANT PREPARATIONS FOR USE IN THE PRESERVATION OF BADLY-DECOMPOSED BODIES AND THE ELIMINATION OF OBNOXIOUS ODORS AND FOR THE PURIFICATION OF SICK ROOMS. SIG. J. F. HAHN, doing busines as The Hahn Laboratories, Conneaut, Ohio.
Filed June 25, 1928. Serial No. 268,601. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,230. SPEEDOMETERS, AMMETERS, AND PARTS OF THE FOREGOING, AND MOTION-PICTURE FILMS. FORD MOTOR COMPANY, Fordson, Mich.
Filed June 25, 1928. Serial No. 268,595. PUBLISHED SEPTEMBER 18, 1928. Class 26.

250,231. CERTAIN NAMED TREATED FABRICS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed June 13, 1928. Serial No. 267,942. PUBLISHED SEPTEMBER 11, 1928. Class 50.

250,232. MANICURE POWDER. HENRY ELMER WILLSIE, doing business as Manuscura, Cleveland, Ohio.
Filed June 12, 1928. Serial No. 267,914. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,233. METALLIC CARBIDES AND THEIR ALLOYS. FRIED. KRUPP AKTIENGESELLSCHAFT, Essen-on-the-Ruhr, Germany.
Filed June 12, 1928. Serial No. 267,890. PUBLISHED SEPTEMBER 18, 1928. Class 14.

250,234. LAWN-GRASS AND FIELD SEEDS. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y.
Filed June 11, 1928. Serial No. 267,882. PUBLISHED AUGUST 14, 1928. Class 1.

250,235. LAWN-GRASS AND FIELD SEEDS. WHITNEY-ECKSTEIN SEED CO., Buffalo, N. Y.
Filed June 11, 1928. Serial No. 267,881. PUBLISHED AUGUST 14, 1928. Class 1.

250,236. RAZORS AND BLADES THEREFOR. PAUL MÜLLER, Solingen, Germany.
Filed June 11, 1928. Serial No. 267,853. PUBLISHED SEPTEMBER 18, 1928. Class 23.

250,237. MEN'S AND BOYS' DRESS AND NEGLIGEE SHIRTS. LAND SHIRT CO., Orange, N. J.
Filed June 11, 1928. Serial No. 267,842. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,238. RAW OR PARTLY-PREPARED MATERIALS—NAMELY, HIDES AND FURS. UNITED RABBITRIES MARKETING INC., Duarte, Calif.
Filed June 9, 1928. Serial No. 267,814. PUBLISHED AUGUST 21, 1928. Class 1.

250,239. KNITTED SWEATERS, SWEATER COATS, AND JACKETS FOR MEN, WOMEN, AND CHILDREN. THE KELLER KNITTING COMPANY, Cleveland, Ohio.
Filed June 9, 1928. Serial No. 267,774. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,240. DENTIFRICES, DENTAL CREAMS, TOOTH PASTES, AND MOUTH WASHES. JOHN J. HARRIS, doing business as No Equal Products Co., Chicago, Ill.
Filed June 8, 1928. Serial No. 267,707. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,241. PREPARATION FOR CORNS, CALLI, WARTS, BUNIONS, AND FOR ALLAYING INFLAMMATION OF THE SKIN. "GETS-IT" INC., Chicago, Ill.
Filed June 6, 1928. Serial No. 267,573. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,242. COTTON HALF HOSE. R. M. GRING, doing business as New Bloomfield Hosiery Mills, New Bloomfield, Pa.
Filed June 4, 1928. Serial No. 267,444. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,243. SHAMPOO PREPARATIONS. H. T. TAGORE, Union City, N. J.
Filed June 1, 1928. Serial No. 267,326. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,244. VETERINARY BIOLOGICS, SERUMS, PHARMACEUTICALS, AND SUPPLIES. NORDEN LABORATORIES, Lincoln, Norfolk, and Grand Island, Nebr., and Sioux City, Iowa.
Filed June 1, 1928. Serial No. 267,313. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,245. FUR PELTS. BLACK STAR MINK FARM, Chilton, Wis.
Filed May 31, 1928. Serial No. 267,226. PUBLISHED AUGUST 21, 1928. Class 1.

250,246. COAL, EXCEPT SMITHING COAL. PITTSBURGH COAL COMPANY, Pittsburgh, Pa.
Filed May 29, 1928. Serial No. 267,207. PUBLISHED AUGUST 7, 1928. Class 1.

250,247. TRAVERTINE FOR USE IN AQUARIUM WATER. MARTHA E. TRAVERS, Columbus, Ohio.
Filed May 28, 1928. Serial No. 267,163. PUBLISHED AUGUST 21, 1928. Class 1.

250,248. BATH POWDER, COMPACTS, LIP STICKS; CLEANSING, NOURISHING, TISSUE, BLEACHING, AND HAND CREAMS; EAU DE COLOGNE, SKIN LOTION; HAND, EYE, HAIR, AND CLEANSING LOTIONS. ISABEY PARIS, INC., Wilmington, Del., and New York, N. Y.
Filed May 28, 1928. Serial No. 267,128. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,249. NAME PLATES AND CERTAIN NAMED POULTRY EQUIPMENT. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,053. PUBLISHED AUGUST 7, 1928. Class 50.

250,250. AN AUTOMOBILE CLEANING AND POLISHING LIQUID. EDWARD EBACK, doing business as Eback Mfg. Co., Indianapolis, Ind.
Filed May 23, 1928. Serial No. 266,856. PUBLISHED SEPTEMBER 18, 1928. Class 16.

250,251. PERFUMERY EXTRACTS, TOILET POWDERS, AND BATH CRYSTALS. F. B. ARNOLD & CO., New York, N. Y.
Filed May 4, 1923. Serial No. 180,166. PUBLISHED DECEMBER 25, 1923. Class 6.

250,252. COCOA, BREAD AND PASTRY FLOUR, CANNED FISH, AND CRANBERRIES. GERALD B. WADSWORTH, doing business as Home Makers Educational Service, Freeport, N. Y.
Filed May 13, 1927. Serial No. 248,980. PUBLISHED APRIL 10, 1928. Class 46.

250,253. COCOA, BREAD AND PASTRY FLOUR, CANNED FISH, AND CRANBERRIES. GERALD B. WADSWORTH, doing business as Home Makers Educational Service, Freeport, N. Y.
Filed May 12, 1927. Serial No. 248,942. PUBLISHED APRIL 10, 1928. Class 46.

250,254. HOG TONICS AND APPETIZERS. SWINEX COMPANY, Cedar Rapids, Iowa.
Filed February 10, 1928. Serial No. 261,533. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,255. ANTISEPTIC. MINTOLENE PRODUCTS CO., New York, N. Y.
Filed February 8, 1928. Serial No. 261,376. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,256. LADIES' FROCKS. EMANUEL MOSKOWITZ, New York, N. Y.
Filed January 27, 1928. Serial No. 260,743. PUBLISHED JULY 10, 1928. Class 39.

250,257. VEGETABLE FIBRES FOR MAKING FELTS, FABRICS, AND YARNS. SOCIETÀ ANONIMA CELLULOSA, Rome, Italy.
Filed December 31, 1927. Serial No. 259,600. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,258. DRESSED AND DYED FURS. JOSEPH HOLLANDER, INC., Newark, N. J.
Filed December 14, 1927. Serial No. 258,910. PUBLISHED AUGUST 7, 1928. Class 1.

250,259. CHRISTMAS-TREE HOLDERS. NOMA ELECTRIC CORPORATION, New York, N. Y.
Filed July 11, 1927. Serial No. 251,851. PUBLISHED SEPTEMBER 11, 1928. Class 50.

250,260. COAL. JEDDO-HIGHLAND COAL COMPANY, Jeddo, Pa.
Filed July 6, 1927. Serial No. 251,560. PUBLISHED SEPTEMBER 18, 1928. Class 1.

250,261. TABLE MATS. HEAT PROOF TABLE MAT COMPANY, St. Louis, Mo.
Filed June 24, 1927. Serial No. 251,056. PUBLISHED AUGUST 21, 1928. Class 50.

250,262. DISINFECTANT. LLEWELLYN GOODE DUGGAR, Hope Hull, Ala.
Filed May 20, 1927. Serial No. 249,266. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,263. DIATOMITE. DIATOMITE PRODUCTS COMPANY, Los Angeles, Calif.
Filed May 11, 1927. Serial No. 248,816. PUBLISHED AUGUST 7, 1928. Class 1.

250,264. DIATOMITE. DIATOMITE PRODUCTS COMPANY, Los Angeles, Calif.
Filed May 11, 1927. Serial No. 248,815. PUBLISHED AUGUST 7, 1928. Class 1.

250,265. OVERALLS. LEVI STRAUSS & COMPANY, San Francisco, Calif.
Filed May 3, 1927. Serial No. 248,368. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,266. KITCHEN UTENSILS—NAMELY, TEA AND COFFEE STRAINERS, SOUP STRAINERS, AND JELLY STRAINERS. UTILITY MANUFACTURING COMPANY, INC., Baltimore, Md.
Filed February 8, 1927. Serial No. 244,035. PUBLISHED JUNE 7, 1927. Class 13.

250,267. WOMEN'S DRESSES, COATS, SUITS, AND SWEATERS. GIMBEL BROTHERS, INC., New York, N. Y.
Filed November 30, 1926. Serial No. 240,781. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,268. CERTAIN NAMED PAINT PRODUCTS. CROWN PAINT & COLOR WORKS, Los Angeles, Calif.
Filed July 10, 1926. Serial No. 234,380. PUBLISHED SEPTEMBER 18, 1928. Class 16.

250,269. HOSIERY. ROLLINS HOSIERY MILLS, Des Moines, Iowa.
Filed June 28, 1926. Serial No. 233,847. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,270. HOSIERY. ROLLINS HOSIERY MILLS, Des Moines, Iowa.
Filed May 10, 1926. Serial No. 231,405. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,271. CLOTHING FOR WOMEN, MISSES, AND GIRLS—NAMELY, DRESSES AND BLOUSES, UNDERWEAR OF KNITTED, NETTED, AND TEXTILE FABRICS. PETTICOATS, VESTS, CHEMISES, KNICKERS, CAMISOLES, SCARVES, FICHUS, COATS, AND HATS. LA SOCIÉTÉ L. BLANCHARD & CIE., Paris, France.
Filed November 28, 1927. Serial No. 258,130. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,272. MAGNESIUM CARBONATES. HIDEZO KIMURA, Sakagoye Sakagoye-Mura Akogun Hyogoken, Japan.
Filed November 21, 1927. Serial No. 257,878. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,273. HOSIERY. ROLLINS HOSIERY MILLS, Des Moines, Iowa.
Filed May 10, 1926. Serial No. 231,403. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,274. PERFUMERY PRODUCTS INCLUDING PERFUMES (EXTRACTS), TOILET WATERS, LOTIONS, FACE POWDERS, TOILET CREAMS, FARDS, SACHETS, EAUX DE COLOGNE, AND BRILLIANTINES. SOCIÉTÉ PARISIENNE D'ESSENCES RARES ET DE PARFUMS, Paris, France.
Filed April 6, 1926. Serial No. 229,756. PUBLISHED AUGUST 24, 1926. Class 6.

250,275. FIELD SEEDS AND SEED GRAINS. OCCIDENTAL SEED COMPANY, Salt Lake City, Utah.
Filed January 25, 1926. Serial No. 226,366. PUBLISHED AUGUST 14, 1928. Class 1.

250,276. MEDICINE AND PHARMACEUTICAL PREPARATION—NAMELY, A NONALCOHOLIC TONIC FOR THE TREATMENT OF RHEUMATISM AND A PLASTER FOR THE TREATMENT OF RHEUMATISM, SKIN DISEASES, INFECTIONS, ABSCESSES, ULCERS, SWELLINGS, AND GENERAL INFLAMMATION; ALSO CONSTITUTING AN ANTISEPTIC. THE OREGON KELP-ORE PRODUCTS COMPANY, Cloverdale, Oreg.
Filed November 4, 1925. Serial No. 222,789. PUBLISHED MARCH 23, 1926. Class 6.

250,277. TOILET PREPARATIONS. WILFRED LABORATORIES, INC., New York, N. Y.
Filed September 17, 1925. Serial No. 220,380. PUBLISHED APRIL 6, 1926. Class 6.

250,278. BREAD. TAYLOR AND DREW, Philadelphia, Pa.
Filed July 15, 1925. Serial No. 217,427. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,279. BISCUIT DOUGH. HELEN F. MONMONIER, Catonsville, Baltimore, Md.
Filed August 1, 1928. Serial No. 270,435. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,280. VARNISHES. MARTIN VARNISH COMPANY, Chicago, Ill.
Filed August 1, 1928. Serial No. 270,431. PUBLISHED SEPTEMBER 18, 1928. Class 16.

250,281. WOMEN'S HOUSE DRESSES, FROCKS, AND DRESSES. LA CROSSE GARMENT CO., La Crosse, Wis.
Filed July 29, 1927. Serial No. 252,716. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,282. BOYS' BLOUSES, NEGLIGEE AND WORK SHIRTS, AND PLAY SUITS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed October 20, 1927. Serial No. 256,374. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,283. HOSIERY. E. KINBRK, Indianapolis, Ind.
Filed October 6, 1927. Serial No. 255,715. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,284. GASOLINE. MEHMKEN OIL CO., Burlington, Iowa.
Filed September 7, 1927. Serial No. 254,467. PUBLISHED AUGUST 7, 1928. Class 15.

250,285. SLEEPING GARMENTS COMPRISING AT PRESENT PAJAMAS AND NIGHTGOWNS OF TEXTILE FABRICS. E. H. HORWOOD & CO., Hoboken, N. J., and New York, N. Y.
Filed August 1, 1927. Serial No. 252,845. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,286. MEN'S SUITS CONSISTING OF COAT, VEST, AND TROUSERS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed August 1, 1928. Serial No. 270,424. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,287. TURKISH TOWELS. MOORESVILLE COTTON MILLS, Mooresville, N. C.
Filed August 14, 1928. Serial No. 271,004. PUBLISHED SEPTEMBER 18, 1928. Class 42.



250,288. CREAMERY BUTTER. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio.
Filed August 10, 1928. Serial No. 270,851. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,289. CIGARS. STARLIGHT & SON, New York, N. Y.
Filed August 9, 1928. Serial No. 270,807. PUBLISHED SEPTEMBER 18, 1928. Class 17.

250,290. SAWS. W. O. BARNES CO. INC., Detroit, Mich.
Filed August 8, 1928. Serial No. 270,785. PUBLISHED SEPTEMBER 18, 1928. Class 23.

250,291. CIGARS. ROTHENBERG & SCHLOSS CIGAR CO., Kansas City, Mo.
Filed August 7, 1928. Serial No. 270,725. PUBLISHED SEPTEMBER 18, 1928. Class 17.

250,292. BRAKE LINING. WILLIAM DUNCAN, doing business as Python Grip Brake & Equipment Co., Los Angeles, Calif.
Filed August 7, 1926. Serial No. 270,693. PUBLISHED SEPTEMBER 18, 1928. Class 35.

250,293. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND CONCENTRATES FOR MAKING THE SAME. ERNEST J. TOWNSEND, East Lynn, Mass.
Filed August 6, 1928. Serial No. 270,681. PUBLISHED SEPTEMBER 18, 1928. Class 45.

250,294. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR MAKING THE SAME. DAVID RASCOFF, doing business as Hammer Beverages, Brooklyn, N. Y.
Filed August 6, 1928. Serial No. 270,679. PUBLISHED SEPTEMBER 18, 1928. Class 45.

250,295. MECHANICAL GRAPHIC CHARTS. WALTER D. WHITCOMB, Portland, Oreg.
Filed August 6, 1928. Serial No. 270,658. PUBLISHED SEPTEMBER 18, 1928. Class 26.

250,296. BREAD. MANBECK BAKING COMPANY, Lemoyne, Pa.
Filed August 6, 1928. Serial No. 270,639. PUBLISHED SEPTEMBER 11, 1928. Class 46.

250,297. CARD-DISPLAY RACK. HEXTER BROS., Cleveland, Ohio.
Filed August 6, 1928. Serial No. 270,635. PUBLISHED SEPTEMBER 18, 1928. Class 32.

250,298. MATTRESSES, BED SPRINGS, CUSHIONS, AND PILLOWS. ELLISON FURNITURE & CARPET CO., Fort Worth, Tex.
Filed August 6, 1928. Serial No. 270,630. PUBLISHED SEPTEMBER 18, 1928. Class 32.

250,299. METAL BED SPRINGS. BURTON-DIXIE CORPORATION, Chicago, Ill.
Filed August 3, 1928. Serial No. 270,534. PUBLISHED SEPTEMBER 18, 1928. Class 32.

250,300. SERIES OF ANIMATED MOTION-PICTURE CARTOONS. UNIVERSAL PICTURES CORPORATION, New York, N. Y.
Filed August 1, 1928. Serial No. 270,450. PUBLISHED SEPTEMBER 18, 1928. Class 26.

250,301. PREPARATION FOR THE REDUCTION OF OBESITY; FOR THE TREATMENT OF OVARIAN DISFUNCTION; FOR THE TREATMENT OF RENAL INSUFFICIENCY; AND FOR THE TREATMENT OF ACIDOSIS, HYPERACIDITY, AND TOXEMIAS. COLD CHEMICAL COMPANY, Wilmington, Del., and St. Louis, Mo.
Filed June 25, 1928. Serial No. 268,586. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,302. PREPARATION FOR MAGNESIA. THE CHARLES H. PHILLIPS CHEMICAL COMPANY, Glenbrook, Conn., and New York, N. Y.
Filed June 23, 1928. Serial No. 268,561. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,303. CALCIUM CHLORIDE. MICHIGAN ALKALI COMPANY, Wyandotte, Mich.
Filed June 23, 1928. Serial No. 268,554. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,304. CHEMICAL BLEACHING PREPARATION FOR LAUNDRY AND HOUSEHOLD USE. JACK MARCOLIS, Waterbury, Conn.
Filed June 23, 1928. Serial No. 268,552. PUBLISHED AUGUST 14, 1928. Class 6.

250,305. LADIES', MISSES', AND CHILDREN'S WASH FROCKS, STAPLE AND NOVELTY SMOCKS, AND APRONS. FRENCHIE FROCKS, INC., San Francisco, Calif.
Filed June 23, 1928. Serial No. 268,538. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,306. COAT HANGERS. WHITE LUGGAGE CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,523. PUBLISHED SEPTEMBER 11, 1928. Class 50.

250,307. COAL. THE TILDESLEY COAL COMPANY, Cincinnati, Ohio.
Filed June 22, 1928. Serial No. 268,521. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,308. LACE LEATHER IN THE PIECE. J. E. RHOADS & SONS, Philadelphia, Pa.
Filed June 22, 1928. Serial No. 268,512. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,309. INSECTICIDE. R. H. MACY & CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,506. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,310. HOSIERY. LEOPOLD B. SCHWAB, Newark, N. J.
Filed June 21, 1928. Serial No. 268,466. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,311. RUBBER VEHICLE TIRES. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed June 21, 1928. Serial No. 268,433. PUBLISHED SEPTEMBER 18, 1928. Class 35.

250,312. LIQUID PREPARATION FOR FROSTBITES AND CHILBLAINS. THOMAS P. CAHILL, doing business as Anti-Frost Company, Philadelphia, Pa.
Filed June 21, 1928. Serial No. 268,420. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,313. LINIMENT FOR RHEUMATISM, GOUT, NEURALGIA, LUMBAGO, COLDS, SPRAINS, BRUISES, AND CRAMPS IN THE STOMACH. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y.
Filed June 19, 1928. Serial No. 268,307. PUBLISHED AUGUST 14, 1928. Class 6.

250,314. BALED LINT COTTON AND SACKED COTTONSEED. GREER STAPLE COTTON BREEDING FARMS, Iowa Park, Tex.
Filed June 18, 1928. Serial No. 268,220. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,315. MEN'S DRESS AND NEGLIGEE SHIRTS. BOYD-RICHARDSON COMPANY, St. Louis, Mo.
Filed June 18, 1928. Serial No. 268,206. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,316. INSECTICIDES USED AS GARDEN AND ORCHARD SPRAYS. BALFOUR, GUTHRIE & CO., San Francisco, Calif.
Filed June 18, 1928. Serial No. 268,204. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,317. NEGLIGEE SHIRTS. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa.
Filed June 16, 1928. Serial No. 268,160. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,318. LEATHER SUBSTITUTES AND PYROXYLIN-COATED FABRICS. THE ASPINOOK CO., Jewett City, Conn.
Filed June 15, 1928. Serial No. 268,074. PUBLISHED AUGUST 21, 1928. Class 50.

250,319. SLIPS, BLOOMERS, STEP-INS, NIGHTGOWNS, AND CHEMISES FOR MISSES AND WOMEN, OF KNITTED AND TEXTILE FABRICS. HARRY A. MARANS, New York, N. Y.
Filed June 13, 1928. Serial No. 267,982. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,320. LADIES' AND MISSES' DRESSES. LAZARE KLEIN COMPANY, San Francisco, Calif.
Filed June 13, 1928. Serial No. 267,970. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,321. COAL. ED. A. GORMAN, INCORPORATED, Dayton, Ky.
Filed June 13, 1928. Serial No. 267,952. PUBLISHED AUGUST 21, 1928. Class 1.

250,322. EAU DE COLOGNE WATER, PERFUMERY, HAIR TONICS, SHAMPOO, POMADE, BRILLIANTINE, COLD CREAM, VANISHING CREAM, ROUGE, FACE POWDER, BABY POWDER, SHAVING LOTION FOR USE AFTER SHAVING, TOOTH PASTE, MOUTH WASH, HEAD TONICS, ETHEREAL OILS FOR PERFUMES. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed February 17, 1928. Serial No. 261,803. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,323. DIATOMACEOUS OR INFUSORIAL EARTH. THE DENVER FIRE CLAY COMPANY, Denver, Colo.
Filed February 24, 1928. Serial No. 262,156. PUBLISHED AUGUST 7, 1928. Class 1.

250,324. CERTAIN NAMED RAW OR PARTLY-PREPARED MATERIALS. CHARMETTE CO. INC., New York, N. Y.
Filed April 12, 1928. Serial No. 264,714. PUBLISHED SEPTEMBER 11, 1928. Class 1.

250,325. STATUARY FOR OUTDOOR DISPLAY PRINCIPALLY FOR ADVERTISING PURPOSES. HY-ART HY-WAY DISPLAY CORPORATION, Los Angeles, Calif.
Filed April 11, 1928. Serial No. 264,687. PUBLISHED AUGUST 21, 1928. Class 50.

250,326. MEN'S OVERALLS, PANTS, WORK SHIRTS, AND ONE-PIECE WORK SUITS. IRON KING OVERALL COMPANY, Baltimore, Md.
Filed April 10, 1928. Serial No. 264,646. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,327. POULTRY NESTS. FORSTER AUTOMATIC POULTRY SEPARATOR COMPANY, Emeryville, Calif.
Filed April 9, 1928. Serial No. 264,574. PUBLISHED SEPTEMBER 4, 1928. Class 50.

250,328. FURS. U. S. FUR AUCTION BROKERAGE CORP., New York, N. Y.
Filed April 7, 1928. Serial No. 264,546. PUBLISHED AUGUST 21, 1928. Class 1.

250,329. HOSIERY. THE J. L. HUDSON COMPANY, Detroit, Mich.
Filed April 4, 1928. Serial No. 264,306. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,330. BATH SALTS. THE NATIONAL CHEMICAL HOLDINGS LTD., London, England.
Filed April 5, 1928. Serial No. 264,381. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,331. VARIOUS CHEMICAL AND PHARMACEUTICAL PRODUCTS—NAMELY, LIVER EXTRACT, RUBBING ALCOHOL COMPOUNDS, PREPARATIONS OF CALCIUM LACTATE AND EPHEDRINE SULPHATE, MEDICINAL MINERAL OIL, RECTAL ANALGESIA, LIME FOR USE IN MAKING LIME-WATER, COMBINATIONS OF COD-LIVER OIL WITH MALT AND AN EXTRACT RICH IN B VITAMIN, CALCIUM CARBONATE, AND GLUTAMIC ACID HYDROCHLORIDE. ELI LILLY AND COMPANY, Indianapolis, Ind.
Filed April 5, 1928. Serial No. 264,377. PUBLISHED SEPTEMBER 4, 1928. Class 6.

250,332. LEATHERS. THE OHIO LEATHER COMPANY, Girard, Ohio.
Filed April 2, 1928. Serial No. 264,183. PUBLISHED AUGUST 21, 1928. Class 1.

250,333. CERTAIN NAMED RAW OR PARTLY-PREPARED MATERIALS. MOLER PRODUCTS LIMITED, London, England.
Filed March 30, 1928. Serial No. 264,038. PUBLISHED SEPTEMBER 4, 1928. Class 1.

250,334. PERFUMES, TOILET POWDERS, AND TOILET WATERS. BASOUH HERMANOS, Habana, Cuba.
Filed March 29, 1928. Serial No. 263,915. PUBLISHED AUGUST 21, 1928. Class 6.

250,335. MATERIAL FOR REDYEING AND RENOVATING PLUSH. WILSON-IMPERIAL COMPANY, Newark, N. J.
Filed March 16, 1928. Serial No. 263,296. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,336. LADIES' AND GENTS' RAIN-PROOF COATS. TOPCOATS, AND TOPCOATS LINED WITH A COATING OF RUBBER; ALSO MEN'S AND YOUTHS' SUITS AND SPORTS CLOTHING—NAMELY, FLANNEL TROUSERS, FLANNEL SUITS, BLAZERS, AND PLUS-FOUR SUITS; ALSO EVENING DRESS SUITS. COHEN & WILKS, LIMITED, Cheetham, England.
Filed March 9, 1928. Serial No. 262,842. PUBLISHED SEPTEMBER 11, 1928. Class 39.

250,337. BITUMINOUS COAL. LILLYBROOK COAL COMPANY, Sullivan and Beckley, W. Va.
Filed March 6, 1928. Serial No. 262,664. PUBLISHED AUGUST 7, 1928. Class 1.

250,338. RUBBER BATH MATS. JOSEPH A. KAPLAN, New York, N. Y.
Filed March 3, 1928. Serial No. 262,567. PUBLISHED SEPTEMBER 11, 1928. Class 50.

250,339. A MEDICINAL PREPARATION TO BE APPLIED EXTERNALLY AS AN OINTMENT FOR THE RELIEF OF RHEUMATIC PAINS IN THE JOINTS AND MUSCLES, ALSO FOR NEURALGIA. DIONISIA SCOCOS, doing business as The Soterion Co., New York, N. Y.
Filed February 25, 1928. Serial No. 262,266. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,340. BRUSHES FOR PAINTING, CLEANING, POLISHING, AND SWEEPING, ETC. WHITING-ADAMS COMPANY, Boston, Mass.
Filed July 31, 1928. Serial No. 270,404. PUBLISHED SEPTEMBER 18, 1928. Class 29.

250,341. CIGARS AND STOGIES. L. HARRIS COMPANY, Pittsburgh, Pa.
Filed July 31, 1928. Serial No. 270,377. PUBLISHED SEPTEMBER 18, 1928. Class 17.

250,342. HOSIERY. CHARLES F. BERG, Portland, Oreg.
Filed July 27, 1928. Serial No. 270,227. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,343. INCLOSURES FOR PRESCRIPTIONS, AND FILE CABINETS. CLARENCE M. ANDERSON, Oklahoma City, Okla.
Filed July 25, 1928. Serial No. 270,100. PUBLISHED SEPTEMBER 18, 1928. Class 32.

250,344. MILK AND CREAM. DETROIT CREAMERY COMPANY, Detroit, Mich.
Filed July 23, 1928. Serial No. 270,018. PUBLISHED SEPTEMBER 4, 1928. Class 46.

250,345. SHAVING BRUSHES. E. R. SQUIBB & SONS, New York, N. Y.
Filed July 21, 1928. Serial No. 269,993. PUBLISHED SEPTEMBER 18, 1928. Class 29.

250,346. HOSIERY. NEBEL KNITTING COMPANY, Charlotte, N. C.
Filed July 21, 1928. Serial No. 269,974. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,347. NONALCOHOLIC MALT CEREAL BEVERAGE. JACKSON BREWING COMPANY, New Orleans, La.
Filed July 21, 1928. Serial No. 269,960. PUBLISHED SEPTEMBER 18, 1928. Class 48.



250,348. PNEUMATIC APPARATUS AND EQUIPMENT—NAMELY, BLOWERS, CENTRIFUGAL AND ROTARY; AIR PUMPS, VACUUM AND PRESSURE; VACUUM CLEANERS, PORTABLE AND STATIONARY; VACUUM DRYING SYSTEMS, DUST-HANDLING SYSTEMS, AND PARTS THEREOF. ALLEN AIR APPLIANCE COMPANY, INC., New York, N. Y.
Filed July 21, 1928. Serial No. 269,931. PUBLISHED SEPTEMBER 18, 1928. Class 23.

250,349. HOSIERY AND WORK SHIRTS. W. T. GRANT COMPANY, Lynn, Mass., and New York, N. Y.
Filed July 19, 1928. Serial No. 269,842. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,350. LADIES' AND MISSES' COATS, SUITS, AND DRESSES. JOSEPH ENGEL COMPANY, New York, N. Y.
Filed July 18, 1928. Serial No. 269,776. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,351. NONCEREAL, MALTLESS, NONALCOHOLIC BEVERAGES AND COMPOUNDS FOR MAKING THE SAME. CITRUS PRODUCTS COMPANY, Chicago, Ill.
Filed July 18, 1928. Serial No. 269,768. PUBLISHED SEPTEMBER 18, 1928. Class 45.

250,352. BATHING SUITS. THE WORCESTER KNITTING CO., Worcester, Mass.
Filed July 17, 1928. Serial No. 269,754. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,353. WOMEN'S, MISSES', AND JUNIORS' DRESSES. NORMANDIN BROS. CO., Los Angeles, Calif.
Filed July 17, 1928. Serial No. 269,740. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,354. DIATOMACEOUS EARTH. FLOATSTONE PRODUCTS COMPANY, Las Vegas, Nev.
Filed July 17, 1928. Serial No. 269,727. PUBLISHED SEPTEMBER 18, 1928. Class 1.

250,355. NONALCOHOLIC CEREAL OR NONCEREAL MALT BEVERAGE USED AS A TONIC. FALLS CITY ICE & BEVERAGE COMPANY, Louisville, Ky.
Filed July 17, 1928. Serial No. 269,724. PUBLISHED SEPTEMBER 18, 1928. Class 48.

250,356. LAXATIVE GUM. WELLER BROTHERS, Shamokin, Pa.
Filed July 16, 1928. Serial No. 269,702. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,357. HAIR TONIC. ANTONIO LENTINO, doing business as Quinolive Company, Boston, Mass.
Filed July 16, 1928. Serial No. 269,669. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,358. LEATHERS. HUNT-RANKIN LEATHER CO., Boston, Mass.
Filed July 16, 1928. Serial No. 269,661. PUBLISHED SEPTEMBER 18, 1928. Class 1.

250,359. HAIRDRESSING. M. M. FLERON & SON, INC., doing business as Bercy Laboratories, Trenton, N. J.
Filed July 16, 1928. Serial No. 269,650. PUBLISHED SEPTEMBER 18, 1928. Class 6.

250,360. AN ANTISEPTIC PREPARATION IN SALVE AND LIQUID FORM FOR TREATMENT OF INFLAMMATIONS OF ALL KINDS. CHAS. W. STRAFFON, Lawrence, Kans.
Filed March 24, 1926. Serial No. 229,131. PUBLISHED JUNE 29, 1926. Class 6.

250,361. HOUSEHOLD FURNITURE. SHOWERS BROTHERS COMPANY, Bloomington, Ind.
Filed June 5, 1928. Serial No. 267,515. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,362. HEALING ANTISEPTIC. FRANCIS E. DANIEL, doing business as The Cido Germ Co., Eden, Tex.
Filed May 22, 1928. Serial No. 266,793. PUBLISHED SEPTEMBER 4, 1928. Class 6.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

250,363. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Oct. 1, 1928. Serial No. 273,170.

**ROUBAIX**

For Textile Rugs.
Claims use since May 5, 1909.

250,364. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Oct. 1, 1928. Serial No. 273,175.

**ALEXANDRIA**

For Textile Rugs.
Claims use since July 21, 1906.

250,365. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Sept. 24, 1928. Serial No. 272,851.

**NORMANDY**

For Textile Rugs.
Claims use since June 1, 1927.

250,366. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Sept. 24, 1928. Serial No. 272,848.

**BAGDAD**

For Textile Rugs.
Claims use since Apr. 1, 1922.

250,367. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARTLOOM CORPORATION, Philadelphia, Pa. Filed Sept. 24, 1928. Serial No. 272,850.

**GRANADA**

For Textile Rugs.
Claims use since Oct. 1, 1924.

250,368. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAVA CRUCIBLE COMPANY OF PITTSBURGH, Pittsburgh, Pa. Filed Sept. 8, 1928. Serial No. 272,113.

LAVA FLUX

For Material for Fluxing the Impurities and Oxides in Nonferrous-Metal Mixtures.
Claims use since about June, 1923.

250,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LYNNE ARLEY, INC., New York, N. Y. Filed July 14, 1928. Serial No. 269,593.

Lynne Arley

For Cosmetics—to wit, Creams and Lotions for the Face and Skin and Face Powders.
Claims use since Aug. 18, 1927.

250,370. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AIX-OLEIN CO., INC., Brooklyn, N. Y. Filed June 22, 1928. Serial No. 268,478.

AIX OLEIN

WOOL OIL

For Oil-Containing Chemical Preparations for the Treatment of Wool and Other Animal Fibres to Prepare the Same for Weaving.
Claims use since about July 26, 1912.

250,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MIDWAY CHEMICAL CO., Chicago, Ill. Filed May 9, 1928. Serial No. 266,142.

"Kwik-Lite"

For Chemical Fluid for Cigarette Lighters.
Claims use since Sept. 28, 1927.

250,372. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) YOUNG RADIATOR COMPANY, Racine, Wis. Filed May 7, 1928. Serial No. 266,070.

Young Quality

For Vehicle Radiators.
Claims use since Sept. 24, 1927.

250,373. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FRED BUTTERFIELD & CO., INC., New York, N. Y. Filed Apr. 4, 1928. Serial No. 264,282.

Butterfield

For Wool, Cotton, Silk, Rayon, and Linen Fabrics and/or Combination Thereof in the Piece.
Claims use since Nov. 9, 1921.

250,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LYNNE ARLEY, INC., New York, N. Y. Filed Jan. 20, 1928. Serial No. 260,396.

Persian Mallow JELLY MASK

For Creams and Lotions for the Face and Skin.
Claims use since Aug. 18, 1927.



250,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LYNNE ARLEY, INC., New York, N. Y. Filed Jan. 20, 1928. Serial No. 260,394.

Persian MILK OF MALLOWS

For Creams and Lotions for the Face and Skin.
Claims use since Aug. 18, 1927.

250,376. (CLASS 12. CONSTRUCTION MATERIALS.) HENRY SORENSEN, San Francisco, Calif. Filed Nov. 15, 1927. Serial No. 257,602.

BOXED

For Steel Reinforcements, Girders, Beams, and Columns for Portable Buildings.
Claims use since Apr. 26, 1927.

250,377. (CLASS 12. CONSTRUCTION MATERIALS.) WILLIAM HANSELER, Jr., Tonawanda, N. Y. Filed Oct. 29, 1927. Serial No. 256,777.

STUCCO TONE

For Cementitious Products Composed of Cement and Sand for Exterior Coating and Decorating Purposes on Buildings.
Claims use since Oct. 17, 1927.

250,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DR. J. H. MCLEAN MEDICINE CO., St. Louis, Mo. Filed June 9, 1926. Serial No. 232,930.

DR. J. H. McLEAN'S TAR WINE COUGH BALM

For A Medicinal Preparation for the Treatment and Relief of Coughs, Colds, and La Grippe.
Claims use since Oct. 1, 1925.

## TRADE-MARK REGISTRATIONS RENEWED

69,541. LEATHER AND CANVAS BOOTS AND SHOES. Registered June 16, 1908. TUFTS & FRIEDMAN, Boston and Lynn, Mass. Renewed June 16, 1928.

69,629. WHEAT FLOUR. Registered June 23, 1908. WM. KELLY MILLING COMPANY. Renewed June 23, 1928, to William Kelly Milling Co., Hutchison, Kans., a Corporation of Kansas, assignee.

69,748. A SALVE FOR EXTERNAL APPLICATION TO THE SKIN. Registered June 30, 1908. BORIS KOHOSOFF. Renewed June 30, 1928, to Eczematol Chemical Co. Inc., New York, N. Y., a Corporation of New York, successor.

70,308. BILLIARD CHALK. Registered August 18, 1908. WILLIAM A. SPINKS & CO. Renewed August 18, 1928, to William A. Spinks & Company, Chicago, Ill., a Corporation of Illinois, successor.

70,927. PORCELAIN TEETH. Registered October 20, 1908. THE DENTISTS' SUPPLY CO., New York, N. Y., and York, Pa. Renewed October 20, 1928, to The Dentists' Supply Company of New York, New York, N. Y., a Corporation of New York.

71,179. HOSIERY. Registered November 10, 1908. CHAS. CHIPMAN'S SONS, Easton, Pa. Renewed November 10, 1928, to Chas. Chipman's Sons Co. Inc., New York, N. Y., a Corporation of New York, successor.

71,367. CERTAIN PAINTERS' MATERIALS. Registered November 24, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed November 24, 1928.

71,418. BLENDED COFFEE. Registered November 24, 1908. R. C. WILLIAMS & CO. Renewed November 24, 1928, to R. C. Williams & Co. Inc., New York, N. Y., a Corporation of New York, assignee.

71,540. PAINTS, ENAMELS, STAINS, AND COLORS. Registered December 1, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed December 1, 1928.

71,794. CERTAIN PAINTERS' MATERIALS. Registered December 15, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed December 15, 1928.

72,235. COFFEE. Registered January 12, 1909. RICHERT BROS. Renewed January 12, 1929, to C. H. Nichols, doing business as Richert Bros., Los Angeles, Calif., successor.

72,244. FERTILIZERS. Registered January 12, 1909. FEDERAL CHEMICAL COMPANY, Louisville, Ky., a Corporation of Kentucky. Renewed January 12, 1929.

72,361. FERTILIZERS. Registered January 19, 1909. FEDERAL CHEMICAL COMPANY, Louisville, Ky., a Corporation of Kentucky. Renewed January 19, 1929.

72,402. BLOTTING PAPER. Registered January 26, 1909. THE ALBEMARLE PAPER MANUFACTURING COMPANY, Richmond, Va., a Corporation of Virginia. Renewed January 26, 1929.

72,535. FIRE HOSE. Registered February 2, 1909. THE GUTTA PERCHA & RUBBER MANUFACTURING COMPANY, New York, N. Y. Renewed February 2, 1929, to Gutta-Percha & Rubber Manufacturing Company, Buffalo, N. Y., a Corporation of New York.

72,549. POCKETBOOKS AND CARDCASES. Registered February 2, 1909. EMIL WEISSBROD AND SONS INCORPORATED, Greenfield, Mass., a Corporation of Massachusetts. Renewed February 2, 1929.

72,572. WATCHES AND WATCH MOVEMENTS. Registered February 2, 1909. JULES RACINE & CO., New York, N. Y., a Partnership. Renewed February 2, 1929.

73,153. CALCIUM CARBID. Registered March 23, 1909. UNION CARBIDE COMPANY, New York, N. Y., a Corporation of Virginia. Renewed March 23, 1929.

73,161. LAMB'S-WOOL INTERLINING. Registered March 23, 1909. EXCELSION QUILTING CO., New York, N. Y. Renewed March 23, 1929, to Excelsior Quilting Co. of New York, Long Island City, N. Y., a Corporation of New York.

73,274. COAL. Registered April 6, 1909. C. M. MODERWELL. Renewed April 6, 1929, to Old Ben Coal Corporation, Chicago, Ill., a Corporation of Delaware, assignee.

73,278. SILVER AND GOLD POLISH. Registered April 6, 1909. F. T. LORD POLISH CO., Somerville, Mass. Renewed April 6, 1929, to F. T. Lord Polish Co., Cambridge, Mass., a Corporation of Massachusetts.

73,380. CRUSHED STEEL FOR USE AS AN ABRASIVE. Registered April 13, 1909. PITTSBURGH CRUSHED STEEL COMPANY, Pittsburgh, Pa., a Corporation of Pennsylvania. Renewed April 13, 1929.

# LABELS

## REGISTERED DECEMBER 4, 1928.

35,021.—*Title:* TOBLER DIE VITAMINREICHE SCHWEIZER CHOCOLADE. For Chocolate. AKTIENGESELLSCHAFT CHOCOLAT TOBLER, Bern, Switzerland. Published September 1, 1928.

35,022.—*Title:* R—164. For Medicine. ROBERT A. BRACKETT, Glendale, Calif. Published October 1, 1928.

35,023.—*Title:* SHU-SHINE. For Shoe Polish. CARSON P. BUCHANAN, Kemp, Tex. Published July 30, 1928.

35,024.—*Title:* STARLITE COPPER DIP. For Metal Cleanser and Restorer. CARASSO SUPPLY CO., INC., New York, N. Y. Published August 15, 1928.

35,025.—*Title:* STARLITE SILVER DIP. For Metal Cleanser and Restorer. CARASSO SUPPLY CO., INC., New York, N. Y. Published August 15, 1928.

35,026.—*Title:* STARLITE SILVER GLOSS. For Metal Cleanser and Restorer. CARASSO SUPPLY CO., INC., New York, N. Y. Published August 15, 1928.

35,027.—*Title:* BEAU-GESTE. For Cheese. B. CHESMAN & SON INC., New York, N. Y. Published November 1, 1927.

35,028.—*Title:* "AVIATOR" FLANNEL SHIRTS. For Men's Flannel Shirts Made of Part Wool and Wool Fabrics. CLAWSON & WILSON COMPANY, Buffalo, N. Y. Published October 20, 1928.

35,029.—*Title:* OH YES WE GROW THE BEST APPLES (YELLOW LABEL). For Fresh Apples. EARL FRUIT COMPANY, Wenatchee, Wash. Published September 25, 1928.

35,030.—*Title:* OH YES WE GROW THE BEST APPLES (RED LABEL). For Fresh Apples. EARL FRUIT COMPANY, Wenatchee, Wash. Published September 25, 1928.

35,031.—*Title:* OH YES WE GROW THE BEST APPLES (BLUE LABEL). For Fresh Apples. EARL FRUIT COMPANY, Wenatchee, Wash. Published September 25, 1928.

35,032.—*Title:* SUPER-MASH-STARTS THEM-GROWS THEM-MAKES THEM LAY. For Poultry Feed. FEEDERS SUPPLY AND MANUFACTURING COMPANY, Kansas City, Mo. Published October 5, 1928.

35,033.—*Title:* GILL'S HOTEL SPECIAL. For Coffee and Chicory. THE JAMES G. GILL CO., INC., Norfolk, Va. Published August 1, 1928.

35,034.—*Title:* "STARJAX" ON ONE SIDE AND "RULES" ON THE OTHER SIDE. For Jack Sets. GREY IRON CASTING COMPANY, Mount Joy, Pa. Published October 17, 1928.

35,035.—*Title:* STRINGOL. For a Prescription in Liquid Form, Antiseptic and Astringent in Nature. Dr. W. T. GULLION, Colorado Springs, Colo. Published October 20, 1928.

35,036.—*Title:* INDEPENDENT MALT EXTRACT BOHEMIAN STYLE. For Malt Syrup. INDEPENDENT MILWAUKEE BREWERY, Milwaukee, Wis. Published August 18, 1928.

35,037.—*Title:* KANE'S BEST. For Malt Syrup and Malt Extract. MAXWELL KANE, Philadelphia, Pa. Published July 15, 1928.

35,038.—*Title:* KIRSHNER'S JEWEL BRIGHT. For Jewelry-Cleaning Outfits or Kits. NATHANIAL M KIRSHNER, Los Angeles, Calif. Published September 7, 1928.

35,039.—*Title:* RASTUS. For Watermelons. KRAMER & BARCUS, Leesburg, Fla. Published April 1, 1928.

35,040.—*Title:* LUCKY LIFE. For Malt Syrup. LUCKY LIFE DISTRIBUTING COMPANY, Philadelphia, Pa. Published October 20, 1928.

35,041.—*Title:* VEL-VETTE. For a Preparation for Whitening the Skin. MME. LUDAYS, Chicago, Ill. Published July 30, 1928.

35,042.—*Title:* MORITZ SWEETS. For Candy. PACIFIC COAST BISCUIT COMPANY, doing business as Pacific Coast Candy Co., Seattle, Wash. Published September 12, 1928.

35,043.—*Title:* P. For Pears. THE PALMER CORPORATION Medford, Oreg., and Chicago, Ill. Published February 15, 1928.

35,044.—*Title:* ARPEAKO PURE FORK SAUSAGE IN LINKS. For Pure Pork Sausage in Links. ROCHESTER PACKING CO., INC., Rochester, N. Y. Published November 29, 1927.

35,045.—*Title:* PERSHARAK. For Rugs and Carpets of a Tapestry Weave. STEPHEN SANFORD & SONS, INC., Amsterdam, N. Y. Published October 17, 1928.

35,046.—*Title:* SURTEA THE DRINKFOOD. For Yerba-Mate. SURTEA INCORPORATED, Chicago, Ill. Published October 15, 1928.

35,047.—*Title:* FRUIT FLAVORED CASTOR OIL. For Castor Oil. WILLARD A. WALSH, doing business as Malt-Zyme, Long Island City, N. Y. Published June 1, 1928.

35,048.—*Title:* FRUIT FLAVORED COD LIVER OIL. For Cod-Liver Oil. WILLARD A. WALSH, doing business as Malt-Zyme, Long Island City, N. Y. Published June 1, 1928.

35,049.—*Title:* BIG HEARTED AL. For Candy. WILLIAMSON CANDY CO., Chicago, Ill. Published October 1, 1928.

35,050.—*Title:* KILN DRIED CREAM CORN MEAL. For Corn Meal. THE JENNY WREN CO., Lawrence, Kans. Published September 1, 1928

# PRINTS

## REGISTERED DECEMBER 4, 1928.

11,358.—*Title:* DO YOU KNOW ELIZABETH ARDEN HERSELF. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published August 24, 1928.

11,359.—*Title:* ORANGE BLOSSOM. For Stationery. WILL J. ECKER, Jr., St. Louis, Mo. Published September 1, 1928.

11,360.—*Title:* GOOD — WINGFOOT — YEAR THE GREATEST NAME IN RUBBER. For Rubber. THE GOODYEAR TIRE & RUBBER COMPANY INC., Akron, Ohio. Published June 1, 1928.

11,361.—*Title:* HAVE YOU ONE GRAY HAIR? AND DOES IT FRIGHTEN YOU? For Inecto Rapid Notox. INECTO, INC., New York, N. Y. Published October 15, 1928.

11,362.—*Title:* JERSEY WHITE GIANTS. For Fine Poultry. ULMER L. MELONEY, Matawan, N. J. Published June 30, 1928.

11,363.—*Title:* EACH EVENING THE END OF A PERFECT DAY. For Coffee. M. J. B. COMPANY, San Francisco, Calif. Published April 3, 1928.

11,364.—*Title:* THE MILLIONS OF TINY FIBRES THAT SEAL BODY WARMTH IN. For Blankets. NASHUA MANUFACTURING COMPANY, Nashua, N. H. Published October 15, 1928.

11,365.—*Title:* ALL ABOARD FOR THE LAND OF NOD. For Blankets. NASHUA MANUFACTURING COMPANY, Nashua, N. H. Published October 20, 1928.

11,366.—*Title:* MILLWORK. For Millwork. NORTH SIDE SASH & DOOR CO., Chicago, Ill. Published October 10, 1928.

11,367.—*Title:* THESE LEADING AIRCRAFT MANUFACTURERS. For Bearings. S. K. F. INDUSTRIES, INC., New York, N. Y. Published October 20, 1928.

11,368.—*Title:* STANDARD UNBREAKABLE WATCH CRYSTALS, INC., NEW YORK, N. Y., U. S. A. For Unbreakable Watch Crystals and Machines to Insert These Unbreakable Crystals. STANDARD UNBREAKABLE WATCH CRYSTLS INC., New York, N. Y. Published April 10, 1928.

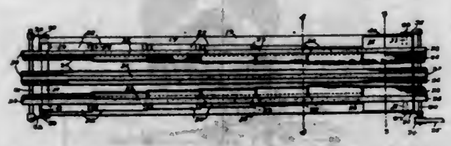
11,369.—*Title:* SYLVANIA RADIO TUBES. For Radiotubes. SYLVANIA PRODUCTS CO., Emporium, Pa. Published July 1, 1928.

11,370.—*Title:* FOR YOUR COLDS TOO. For Remedies for the Relief of Colds. VICK CHEMICAL COMPANY, Philadelphia, Pa. Published October 10, 1928.

# REISSUES

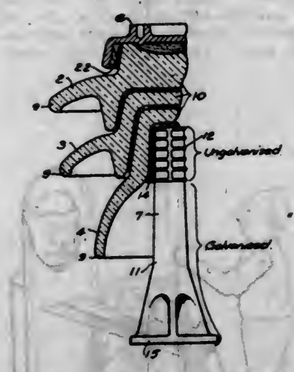
## DECEMBER 4, 1928.

17,149. ASSORTING MACHINE. FLOYD J. COOK, Medford, Oreg. Filed Sept. 19, 1928. Serial No. 306,986. Original No. 1,646,951, dated Oct. 25, 1927, Serial No. 48,073, filed Aug. 4, 1925. 6 Claims. (Cl. 209—102.)



2. In a grading machine of the class described, the combination of a frame comprising spaced longitudinal members, a series of independent relatively short grading bars, arranged end to end, longitudinally, carried by one of said members and adjustable, independently, relatively to the other of said members to form therewith a runway space progressively enlarged in steps and means for selectively and independently adjusting said grading bars laterally on the said frame member, to vary the width of the said runway relatively to each of the said bars, and an endless conveyor extending at all times into their runway space.

17,150. INSULATOR STRUCTURE. WILLIAM K. NAYLOR, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 23, 1928. Serial No. 301,669. Original No. 1,673,582, dated June 12, 1928, Serial No. 184,223, filed Apr. 16, 1927. 10 Claims. (Cl. 173—321.)

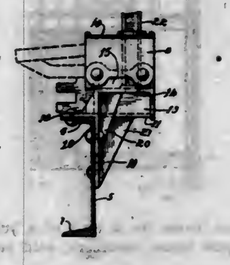



6. An insulator of the pin-type comprising an insulating member having a recess, and a pin cemented in position in the recess having a galvanized portion and a portion of different character for holding cooperation with the cement.

10. An insulator comprising an insulating member and a member cooperating therewith, one of said members having a recess and the other having a portion bonded in position in said recess and said cooperating member having only its exposed surface provided with a weather-protective coating.

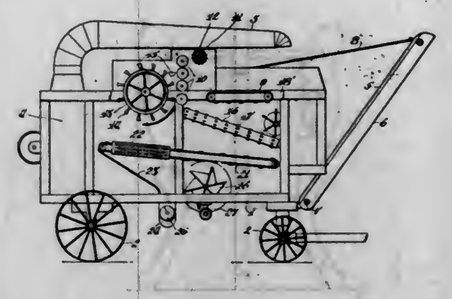
17,151. MOUNTING FOR BRAKE GEARS. SVEN JULIUS STRID, Chicago, Ill., assignor to Fred Mathews, Chicago, Ill. Filed Sept. 25, 1926. Serial No. 137,786. Original No. 1,557,733, dated Oct. 20, 1925, Serial No. 48,423, filed Aug. 5, 1925. 7 Claims. (Cl. 74—121.)

1. The combination with an angular end sill of a railway car, of a brake-gear mounting device comprising an inverted U-shaped top casting, a bottom casting having flanged ends secured to the top casting, said bottom casting being provided with a plurality of lugs disposed at right-angles to each other, certain of said lugs resting



upon the horizontal portion of said end-sill whereby to support the brake-gearing above the end-sill, and the other lug or lugs engaging and secured to the vertical portion of the end-sill whereby to brace the structure against stress longitudinally of the car.

17,152. CORN SHREDDER AND HUSKER. HERMAN PETER GROSSMAN, Boonville, Ind., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed May 12, 1928. Serial No. 277,847. Original No. 1,628,461, dated May 10, 1927, Serial No. 169,301, filed Feb. 18, 1927. 13 Claims. (Cl. 130—5.)

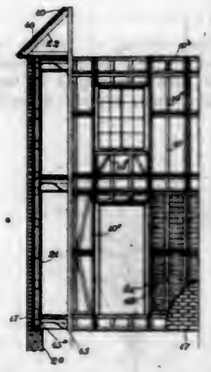


1. In a corn shredder and husker, the combination with rotary toothed husking rollers, of separator or guard strips located between the adjacent rollers, and means operating above and close to the guard strips in the region of the delivery ends of said rollers for beating back the ears while on the husking rollers.

17,153. HAIR DYE. MAUDE AGNES MINGUS, formerly Maude Agnes Mingus Wheeler, Oakland, Calif. Filed Sept. 11, 1928. Serial No. 305,310. Original No. 1,636,341, dated July 19, 1927, Serial No. 759,100, filed Dec. 31, 1924. 4 Claims. (Cl. 167—5.)

1. A hair rinse powder comprising tartaric acid and a coal tar dye.

17,154. FRAME FOR BUILDINGS. FREDERICK L. PURDY, Columbus, Ohio. Filed Oct. 19, 1928. Serial No. 313,599. Original No. 1,604,605, dated Oct. 26, 1926, Serial No. 114,472, filed June 8, 1926. 9 Claims. (Cl. 189—1.)



9. A skeleton frame for a wall of a building including two sets of open frame members, said sets spaced from each other in parallel planes, said frame members including connecting means affording openings for the vertical passage of conductors between them from one side of a door to the other.

17,155. MANUFACTURE OF HEADLIGHTS. WILLIAM H. WOOD, South Euclid, Ohio. Filed June 11, 1928. Serial No. 284,629. Original No. 1,668,706, dated May 8, 1928, Serial No. 657,996, filed Aug. 17, 1923. 12 Claims. (Cl. 13—49.)

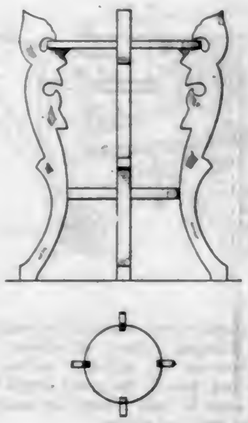


1. A one-piece metal punch for reflectors having its surface convex at all points and having its different regions defined by surfaces of revolution about a plurality of different longitudinal axes.

# DESIGNS

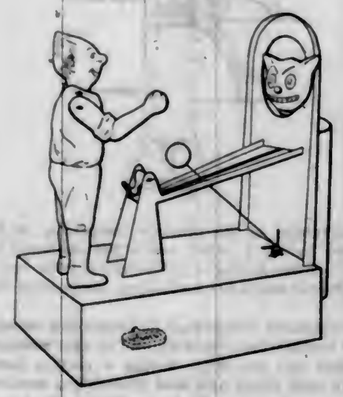
## DECEMBER 4, 1928.

77,049. FLOWER STAND. RAYMOND M. BAUER, West St. Paul, Minn. Filed Dec. 21, 1927. Serial No. 24,571. Term of patent 3½ years.



The ornamental design for a flower stand, as shown.

77,050. STATUETTE. SAMUEL I. BERGER, Newark, N. J. Filed Jan. 17, 1927. Serial No. 20,408. Term of patent 3½ years.



The ornamental design for a statuette, as shown.

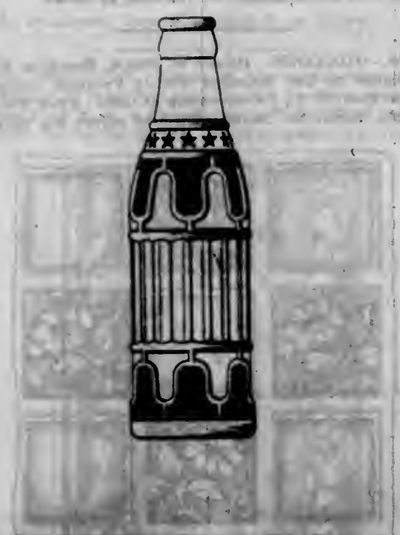


77,051. DOORSTOP. CARGILL BLOW, Winter Haven, Fla. Filed Mar. 19, 1928. Serial No. 25,000. Term of patent 3½ years.



The ornamental design for a doorstop, as shown.

77,052. BOTTLE OR THE LIKE. JESSE BRAMBLE, Evansville, Ind., assignor to The Graham Glass Company, Evansville, Ind., a Corporation of Indiana. Filed May 25, 1928. Serial No. 26,847. Term of patent 14 years.



The ornamental design for a bottle or the like substantially as shown.

77,053. BOTTLE OR THE LIKE. JESSE BRAMBLE, Evansville, Ind., assignor to The Graham Glass Company, Evansville, Ind., a Corporation of Indiana. Filed May 25, 1928. Serial No. 26,848. Term of patent 14 years.



The ornamental design for a bottle or the like substantially as shown and described.

77,054. BOTTLE OR THE LIKE. JESSE BRAMBLE, Evansville, Ind., assignor to The Graham Glass Company, Evansville, Ind., a Corporation of Indiana. Filed May 25, 1928. Serial No. 26,849. Term of patent 14 years.



The ornamental design for a bottle or the like substantially as shown and described.

77,055. STOCKING. GEORGE L. BRIGGS, Brooklyn, N. Y. Filed Apr. 12, 1928. Serial No. 26,292. Term of patent 14 years.



The ornamental design for a stocking as shown and described.

77,056. ELECTRIC-LIGHTING-FIXTURE RING. HUGO A. BUCCINI, Philadelphia, Pa., assignor to Victory Lamp Company, Philadelphia, Pa. Filed Dec. 19, 1927. Serial No. 24,536. Term of patent 3½ years.



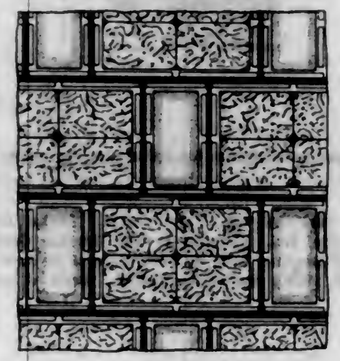
The ornamental design for an electric-lighting fixture ring as shown and described.

77,057. WRISTLET WATCH. SAMUEL NORMAN BURGESS, London, England. Filed Jan. 3, 1928. Serial No. 24,730, and in Great Britain Sept. 22, 1927. Term of patent 7 years.



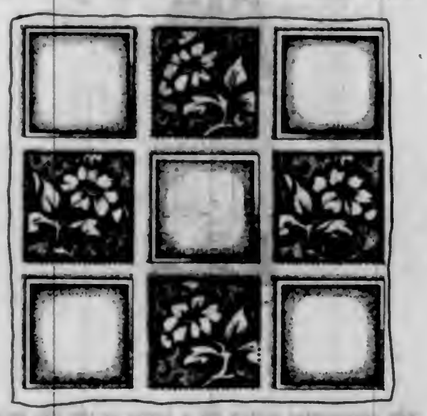
The ornamental design for a wristlet watch, as shown.

77,058. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,149. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

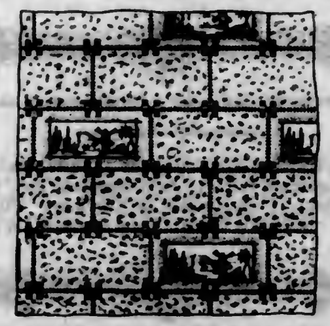
77,059. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,150. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

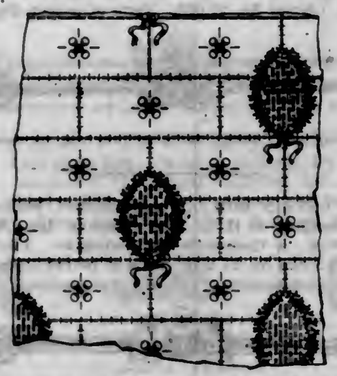


77,060. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,152. Term of patent 3½ years.



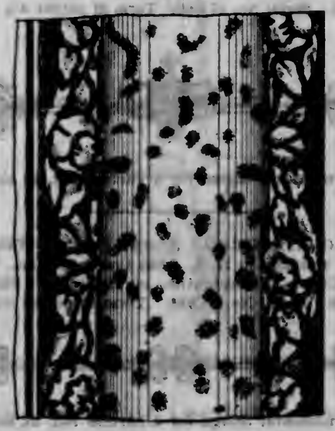
The ornamental design for oilcloth, as shown.

77,061. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,153. Term of patent 3½ years.



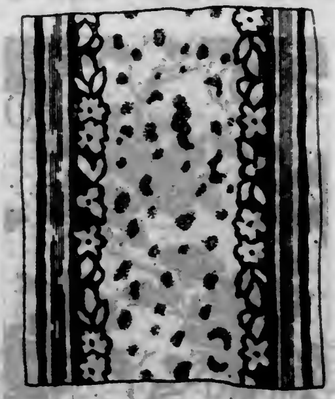
The ornamental design for oilcloth, as shown.

77,062. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,155. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

77,063. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,156. Term of patent 3½ years.



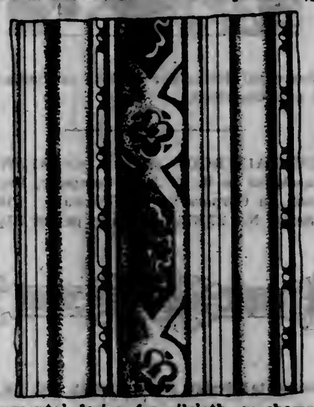
The ornamental design for oilcloth, as shown.

77,064. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,157. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

77,065. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,158. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

77,066. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,170. Term of patent 3½ years.



The ornamental design for oilcloth, as shown.

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77,067. OILCLOTH. HENRY W. DIECK, Brooklyn, N. Y., assignor to The Standard Textile Products Company, New York, N. Y., a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 24,171. Term of patent 3½ years.



The ornamental design for oilcloth or similar material, as shown and described.

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77,068. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,675. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

77,069. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,676. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,070. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,677. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,071. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,678. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,072. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,679. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,073. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,680. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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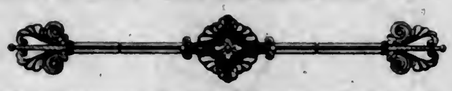
77,074. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,681. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.



77,075. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,682. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,076. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,683. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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77,077. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,685. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

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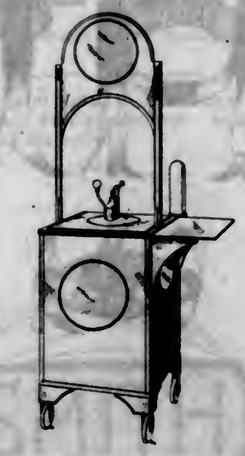
77,078. CURTAIN ROD. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Aug. 2, 1928. Serial No. 27,686. Term of patent 3½ years.



The ornamental design for a curtain rod, as shown.

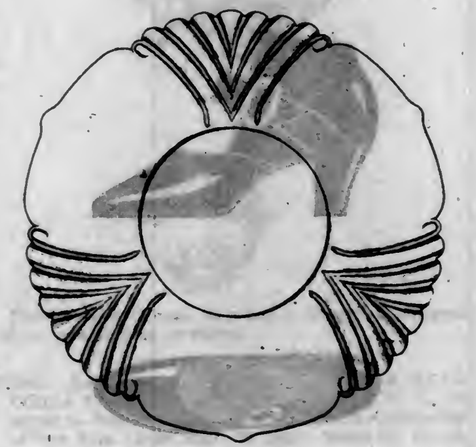
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77,079. BEVERAGE-DISPENSING CABINET. CHARLES DOERING, Chicago, Ill. Filed Sept. 1, 1928. Serial No. 28,019. Term of patent 7 years.



The ornamental design for a beverage dispensing cabinet as shown.

77,080. PLATE OR SIMILAR ARTICLE. BERNARD A. DOLAN, Brookline, Mass., assignor to Tuttle Silver Company, Boston, Mass., a Corporation of Massachusetts. Filed May 4, 1928. Serial No. 26,561. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

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77,081. BOTTLE. BOYD EDMISTON and HENRY T. KINNEY, Punxsutawney, Pa. Filed Mar. 27, 1928. Serial No. 26,036. Term of patent 14 years.



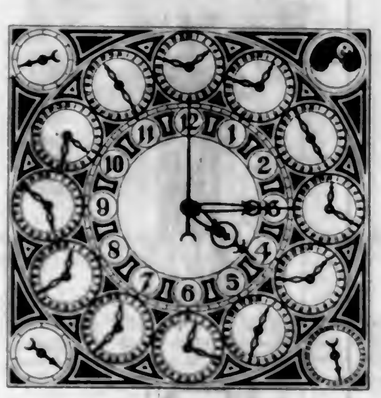
The ornamental design for a bottle, as shown.

77,082. SHOE. LEO J. FITZ HARRIS, Brooklyn, N. Y., assignor, by mesne assignments, to Franklin Simon & Co. Inc., New York, N. Y., a Corporation of New York. Filed Aug. 22, 1928. Serial No. 27,931. Term of patent 7 years.



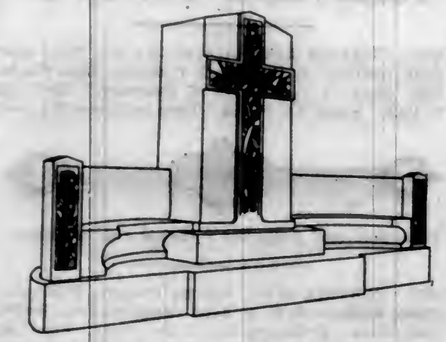
The ornamental design for a shoe, as shown.

77,083. CLOCK FACE. FRANK FONTANA, San Francisco, Calif. Filed Oct. 10, 1927. Serial No. 23,708. Term of patent 3½ years.



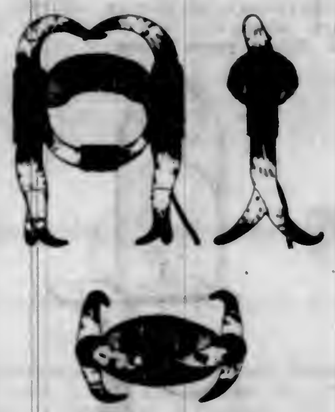
The ornamental design for a clock face substantially as shown.

77,084. MONUMENT. THOMAS W. FOX, Cincinnati, Ohio. Filed Aug. 30, 1928. Serial No. 27,998. Term of patent 14 years.



The ornamental design for a monument substantially as shown.

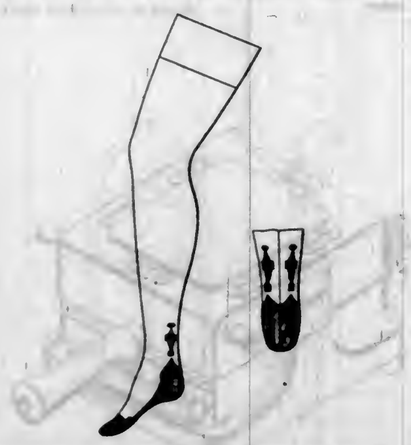
77,085. ELECTRIC LAMP. ALBERT FRIEDRICH and ROY O. POWELL, San Antonio, Tex. Filed July 14, 1928. Serial No. 27,490. Term of patent 7 years.



The ornamental design for an electric lamp, as shown.



77,086. STOCKING. GEORGE W. GOETSCH, Elkins Park, Pa., assignor to Quaker Hosiery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1928. Serial No. 27,724. Term of patent 14 years.



The ornamental design for a stocking, as shown.

77,087. RADIATOR ORNAMENT. ELLA T. GREELEY, Whitman, Mass. Filed July 21, 1928. Serial No. 27,549. Term of patent 3½ years.



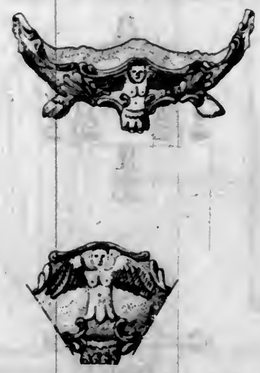
The ornamental design for a radiator ornament, as shown.

77,088. RADIATOR ORNAMENT. ELLA T. GREELEY, Whitman, Mass. Filed July 30, 1928. Serial No. 27,624. Term of patent 3½ years.



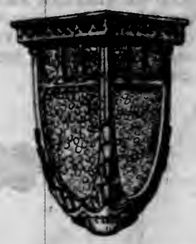

The ornamental design for a radiator ornament, as shown.

77,089. DISH OR ARTICLE OF ANALOGOUS NATURE. LEO HECHT, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Sept. 28, 1928. Serial No. 28,305. Term of patent 3½ years.



The ornamental design for a dish or article of analogous nature substantially as shown.

77,090. LANTERN BODY OR ARTICLE OF ANALOGOUS NATURE. LEO HECHT, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc., a Corporation of New York. Filed Sept. 28, 1928. Serial No. 28,306. Term of patent 3½ years.



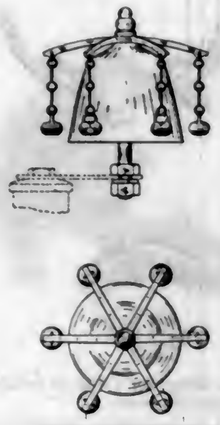
The ornamental design for a lantern body or article of analogous nature substantially as shown.

77,091. RUG OR SIMILAR ARTICLE. LOUIS S. HENDERSON, Philadelphia, Pa. Filed Oct. 18, 1928. Serial No. 28,531. Term of patent 3½ years.



The ornamental design for a rug or similar article, as shown.

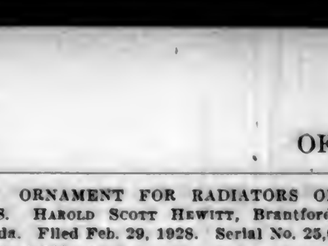
77,092. ORNAMENT FOR RADIATORS OF MOTOR CARS. HAROLD SCOTT HEWITT, Brantford, Ontario, Canada. Filed Feb. 29, 1928. Serial No. 25,622. Term of patent 3½ years.



The ornamental design for an ornament for radiators of motor cars, as shown.

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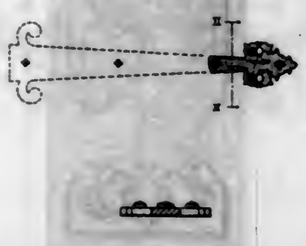
77,093. HINGE STRAP OR SIMILAR ARTICLE. CLEMENT E. HORTON, New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1928. Serial No. 28,099. Term of patent 7 years.



The ornamental design for a hinge strap or similar article, as shown.

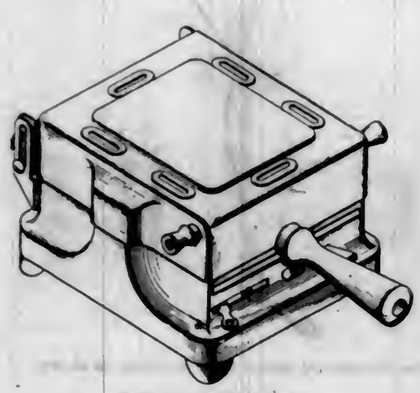
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77,094. HINGE STRAP OR SIMILAR ARTICLE. CLEMENT E. HORTON, New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1928. Serial No. 28,100. Term of patent 7 years.



The ornamental design for a hinge strap or similar article, as shown.

77,095. TOASTER. ALPHEUS O. HERXTHAL, Philadelphia, Pa., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 15, 1928. Serial No. 25,444. Term of patent 14 years.



The ornamental design for a toaster, substantially as shown.

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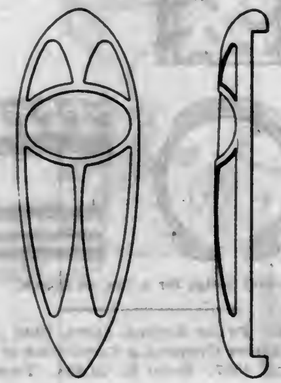
77,096. LIGHTING FIXTURE. JOSEPH L. JAFFE and ROBERT J. MONROE, Cleveland, Ohio, assignors to The Perfecilite Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 14, 1927. Serial No. 20,385. Term of patent 7 years.



The ornamental design for a lighting fixture, substantially as shown.



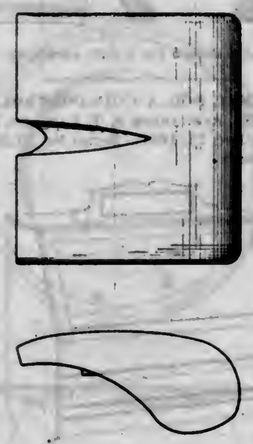
77,097. CLAMP PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1927. Serial No. 22,472. Term of patent 14 years.



The ornamental design for a clamp plate for vehicle bumpers, substantially as shown.

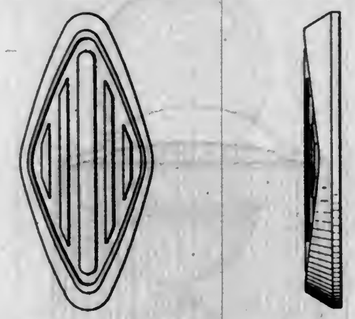
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77,098. MASK PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1927. Serial No. 22,474. Term of patent 14 years.



The ornamental design for a mask plate for vehicle bumpers, as shown.

77,099. CLAMP PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1927. Serial No. 22,484. Term of patent 14 years.



The ornamental design for a clamp plate for vehicle bumpers, substantially as shown.

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77,100. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 21, 1927. Serial No. 24,576. Term of patent 14 years.



The ornamental design for a clamp plate substantially as shown and described.

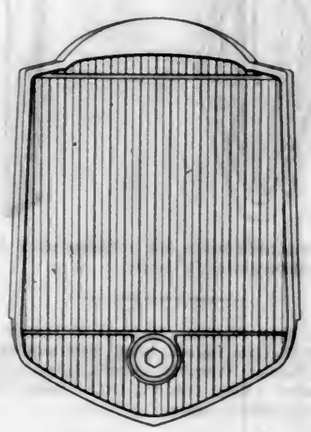
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77,101. IMPACT SECTIONS FOR A VEHICLE BUMPER. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 21, 1927. Serial No. 24,581. Term of patent 14 years.



The ornamental design for impact sections for a vehicle bumper, substantially as shown and described.

77,102. AUTOMOBILE RADIATOR. ARCHER L. KNAPP, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 12, 1928. Serial No. 25,809. Term of patent 14 years.



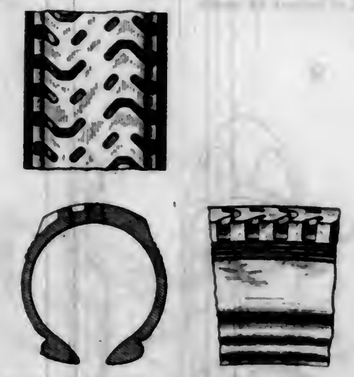
The ornamental design for an automobile radiator, as shown.

77,103. BOTTLE. LYDIA B. KOCH, New York, N. Y., assignor to Reinforced Paper Bottle Corporation, Chicago, Ill., a Corporation of Delaware. Filed Feb. 24, 1928. Serial No. 25,556. Term of patent 14 years.



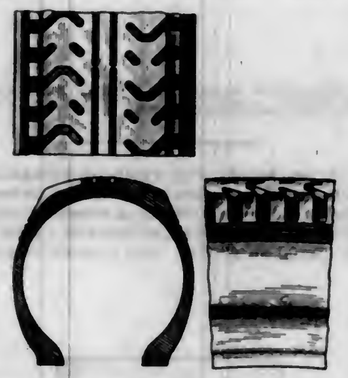
The ornamental design for a bottle, as shown.

77,104. TIRE. FRANK KOVACS, Akron, Ohio, assignor to Seiberling Rubber Company, a Corporation of Delaware. Filed Nov. 23, 1927. Serial No. 24,257. Term of patent 7 years.



The ornamental design for a tire, as shown.

77,105. TIRE. FRANK KOVACS, Akron, Ohio, assignor to Seiberling Rubber Company, a Corporation of Delaware. Filed Nov. 23, 1927. Serial No. 24,258. Term of patent 7 years.



The ornamental design for a tire, as shown.

77,106. CABINET FOR A COIN-CONTROLLED GAME APPARATUS. ALEXANDER S. T. LAGAARD, Minneapolis, Minn. Filed Dec. 22, 1927. Serial No. 24,593. Term of patent 3½ years.



The ornamental design for a cabinet for a coin controlled game apparatus, as shown.

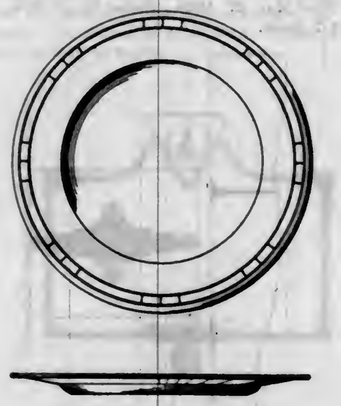


77,107. COMBINED SMOKER'S OUTFIT AND RECEPTACLE FOR GAME ACCESSORIES. HELENE LYONS LONG, Spokane, Wash. Filed June 12, 1928. Serial No. 27,093. Term of patent 7 years.



The ornamental design for a combined smoker's outfit and receptacle for game accessories, as shown.

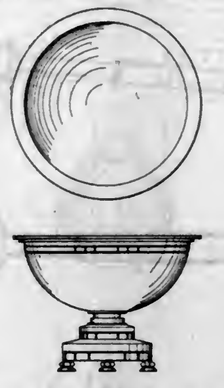
77,108. PLATE OR SIMILAR ARTICLE. ERIK MAGNUSSEN, Providence, R. I., assignor to Gorham Mfg. Co., Providence, R. I. Filed Aug. 18, 1928. Serial No. 27,874. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.



77,109. BOWL OR SIMILAR ARTICLE. ERIK MAGNUSSEN, Providence, R. I., assignor to Gorham Mfg. Co., Providence, R. I. Filed Aug. 18, 1928. Serial No. 27,875. Term of patent 7 years.



The ornamental design for a bowl or similar article as shown.

77,110. POWDER-PUFF BOX OR SIMILAR ARTICLE. ROBERT E. MCELDOWNEY, New Martinsville, W. Va., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va., a Corporation of West Virginia. Filed Sept. 7, 1928. Serial No. 28,067. Term of patent 3½ years.



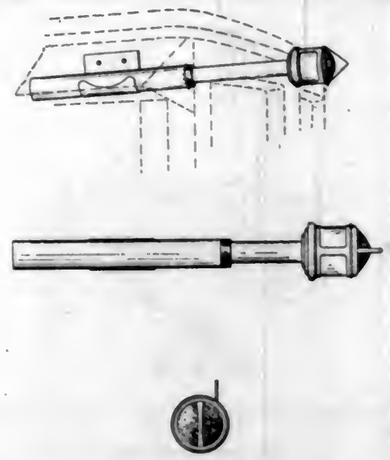
The ornamental design for a powder puff box or similar article as shown.

77,111. REED CHAIR. EDWARD R. MCELLIGOTT, Brookline, Mass., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 3, 1928. Serial No. 24,740. Term of patent 3½ years.



The ornamental design for a reed chair, as shown.

77,112. DIRECTION INDICATOR. JAMES LEO MCCRANE, Buffalo, N. Y. Filed June 9, 1927. Serial No. 22,374. Term of patent 3½ years.



The ornamental design for a direction indicator as shown.

77,113. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Aug. 13, 1928. Serial No. 27,796. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.

77,114. STATUE. ARLINE B. N. MOSS, St. Louis, Mo., assignor to The National Society of the Daughters of the American Revolution, Washington, D. C. Filed Aug. 10, 1928. Serial No. 27,772. Term of patent 14 years.



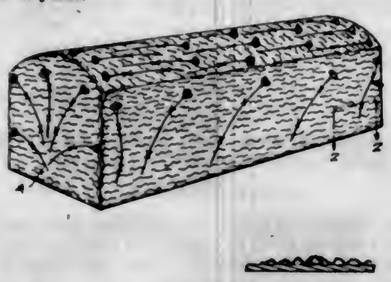
The ornamental design for a statue, substantially as shown.

77,115. TOOTHBRUSH. DANIEL PRESCOTT MOWRY, Montreal, Quebec, Canada. Filed Nov. 16, 1927. Serial No. 24,141. Term of patent 14 years.



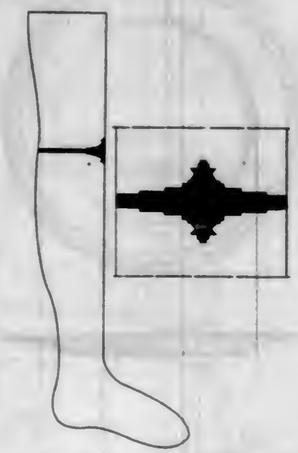
The ornamental design for a toothbrush as shown.

77,116. BURIAL-RECEPTACLE COVER. WILLIAM B. MUCKLEROY, Houston, Tex., assignor to Fogle West Undertaking Company, Houston, Tex., a Corporation. Filed June 11, 1928. Serial No. 27,070. Term of patent 14 years.



The ornamental design for a burial receptacle cover as shown.

77,117. STOCKING. ERNST OSCAR NEBEL, Philadelphia, Pa. Filed Mar. 27, 1928. Serial No. 26,025. Term of patent 7 years.



The ornamental design for a stocking substantially as shown and described.

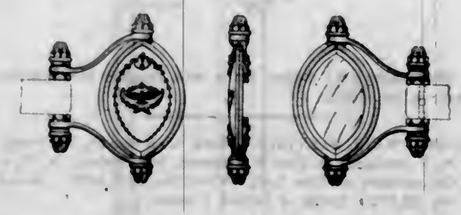


77,118. ELECTRIC BULB OR SIMILAR ARTICLE. GODFREY NIEBEL, New York, N. Y. Filed Dec. 20, 1927. Serial No. 24,556. Term of patent 14 years.



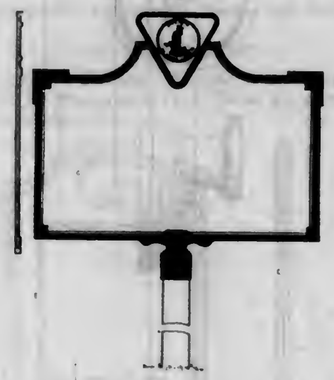
The ornamental design for an electric bulb or similar article, substantially as shown.

77,119. AUTOMOBILE MIRROR. NILS ALFRED PEARSON, Long Island City, N. Y. Filed Apr. 7, 1928. Serial No. 26,172. Term of patent 14 years.



The ornamental design for an automobile mirror as shown.

77,120. ROAD SIGN. LANDON L. PERDUE, Chester, Va., assignor to State Conservation and Development Commission on Behalf of the Commonwealth of Virginia, Richmond, Va. Filed May 12, 1928. Serial No. 26,648. Term of patent 14 years.



The ornamental design for a road sign, as shown.

77,121. RADIATOR-CAP ORNAMENT. FELIX RIVANOV, Chicago, Ill., assignor to The Anderson Company, Gary, Ind., a Corporation of Indiana. Filed Feb. 13, 1928. Serial No. 25,420. Term of patent 3½ years.



The ornamental design for a radiator cap ornament as shown.

77,122. RADIATOR-CAP ORNAMENT. FELIX RIVANOV, Chicago, Ill., assignor to The Anderson Company, Gary, Ind., a Corporation of Indiana. Filed Feb. 13, 1928. Serial No. 25,422. Term of patent 3½ years.



The ornamental design for a radiator cap ornament, as shown.

77,123. CHANDELIER. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Sept. 22, 1928. Serial No. 28,244. Term of patent 3½ years.



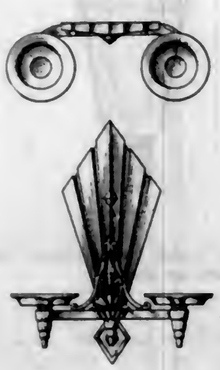
The ornamental design for a chandelier, as shown.

77,124. CHANDELIER. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Sept. 22, 1928. Serial No. 28,245. Term of patent 3½ years.



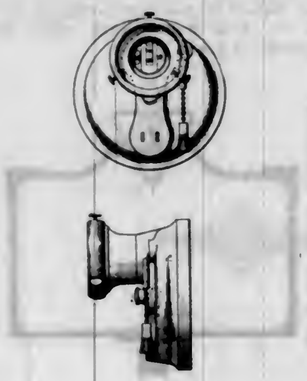
The ornamental design for a chandelier, as shown.

77,125. WALL BRACKET FOR LIGHTING FIXTURES. ISIDOR ROSENBLATT, Brooklyn, N. Y. Filed Sept. 22, 1928. Serial No. 28,246. Term of patent 3½ years.



The ornamental design for a wall bracket for lighting fixtures, as shown.

77,126. WALL FIXTURE. MARK N. RUSSELL, Syracuse, N. Y., assignor to Pass & Seymour, Inc., Solvay, N. Y., a Corporation of New York. Filed Mar. 19, 1928. Serial No. 25,912. Term of patent 7 years.



The ornamental design for a wall fixture substantially as shown.

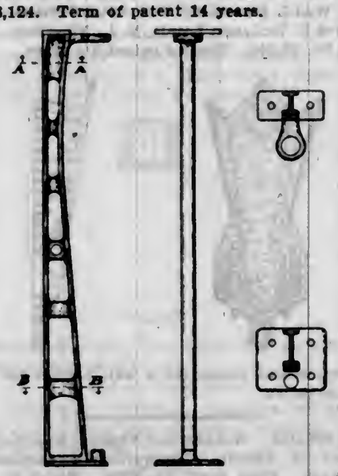


77,127. EASEL STAND. FRANK S. SAXTON, Blissfield, Mich. Filed July 5, 1928. Serial No. 27,384. Term of patent 7 years.



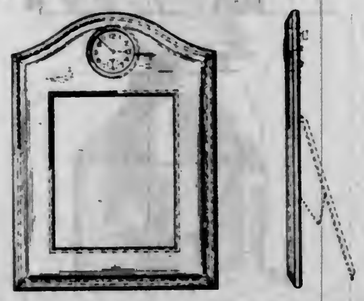
The ornamental design for an easel stand as shown.

77,128. MARINE RAIL STANCHION. JACOB RUPPERT SCHALK, Rhinebeck, N. Y. Filed Apr. 4, 1928. Serial No. 26,124. Term of patent 14 years.



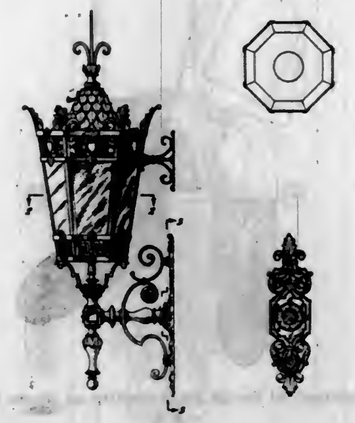
The ornamental design for a marine rail stanchion, as shown.

77,129. CLOCK FRAME. FREDERICK W. SCHENK, New York, N. Y. Filed Apr. 6, 1928. Serial No. 26,159. Term of patent 3½ years.



The ornamental design for a clock frame as shown and described.

77,130. LANTERN. ALFRED P. SEIDELL, Bloomfield, N. J., assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1928. Serial No. 27,905. Term of patent 14 years.



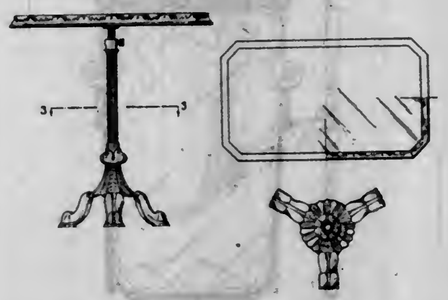
The ornamental design for a lantern, as shown.

77,131. FINGER RING. DAVID H. SHULAN, Akron, Ohio. Filed Sept. 19, 1928. Serial No. 28,206. Term of patent 14 years.



The ornamental design for a finger ring, as shown.

77,132. DISPLAY STAND. SAMUEL SOBEL, Brooklyn, N. Y. Filed May 22, 1928. Serial No. 26,805. Term of patent 3½ years.



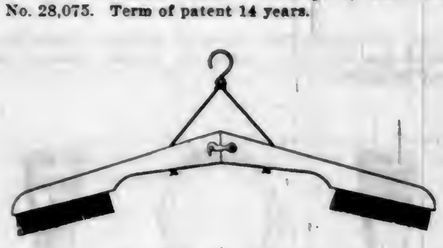
The ornamental design for a display stand, as shown and described.

77,133. STOCKING. ALBERT STAUDTE, Philadelphia, Pa. Filed Mar. 17, 1928. Serial No. 25,891. Term of patent 14 years.



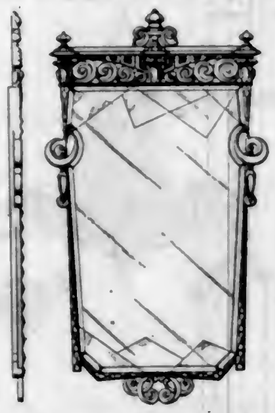
The ornamental design for a stocking as shown and described.

77,134. COMBINED COAT HANGER AND BRUSH. YUJI SUMI, San Francisco, Calif. Filed Sept. 8, 1928. Serial No. 28,075. Term of patent 14 years.



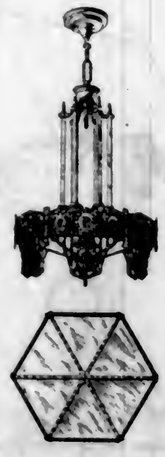
The ornamental design for a combined coat hanger and brush as shown.

77,135. MIRROR FRAME. JACOB TURNER, Chicago, Ill., assignor to Turner Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1928. Serial No. 27,275. Term of patent 3½ years.



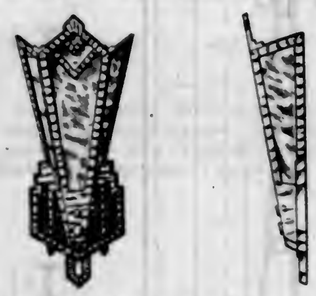
The ornamental design for a mirror frame, as shown.

77,136. CHANDELIER. GUSTAVE E. VILLARET, Leonia, N. J. Filed Sept. 22, 1928. Serial No. 28,242. Term of patent 3½ years.



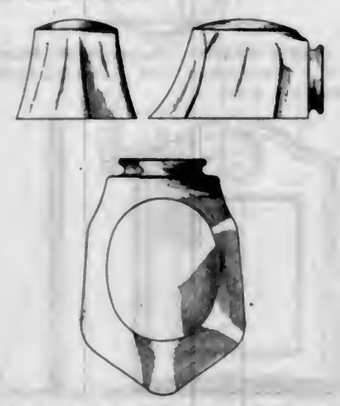
The ornamental design for a chandelier, as shown.

77,137. WALL BRACKET FOR LIGHTING FIXTURES. GUSTAVE E. VILLARET, Leonia, N. J. Filed Sept. 22, 1928. Serial No. 28,243. Term of patent 3½ years.



The ornamental design for a wall bracket for lighting fixtures, as shown.

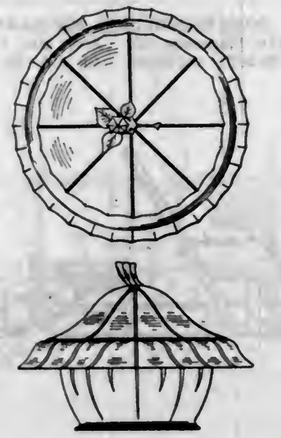
77,138. SHADE. WALTER VON NESSEN, New York, N. Y., assignor to Efcolite Corporation, a Corporation of New York. Filed Sept. 22, 1928. Serial No. 28,240. Term of patent 7 years.



The ornamental design for a shade substantially as shown.



77,139. COVERED DISH OR SIMILAR ARTICLE. ALBERT WEBER, Upper Montclair, N. J., assignor to Herman C. Kupper, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 27, 1928. Serial No. 28,288. Term of patent 7 years.



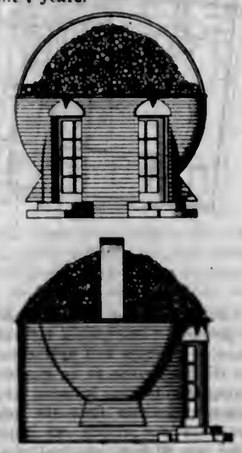
The ornamental design for a covered dish or similar article as shown.

77,140. SHOE-STRAP FASTENER MEMBER. ERNEST E. WELLER, Providence, R. I. Filed July 6, 1928. Serial No. 27,399. Term of patent 3½ years.



The ornamental design for a shoe strap fastener member, substantially as shown.

77,141. BUILDING. WARREN EVERETTE WOLFE, Los Angeles, Calif. Filed Mar. 19, 1928. Serial No. 25,901. Term of patent 7 years.



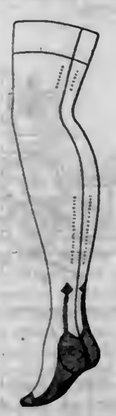
The ornamental design for a building, as shown.

77,142. HANDLE FOR SMOKING STANDS OR SIMILAR ARTICLES. JOSEPH ZWEIG, Brooklyn, N. Y., assignor to Metropolitan Lamp Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 14, 1928. Serial No. 27,816. Term of patent 3½ years.



The ornamental design for a handle for smoking stands, or similar articles substantially as shown.

77,143. STOCKING. GEORGE W. GOETSCH, Elkins Park, Pa., assignor to Quaker Hosiery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 31, 1927. Serial No. 23,961. Term of patent 14 years.

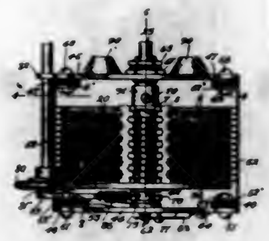


The ornamental design for a stocking, as shown.

# PATENTS

## GRANTED DECEMBER 4, 1928.

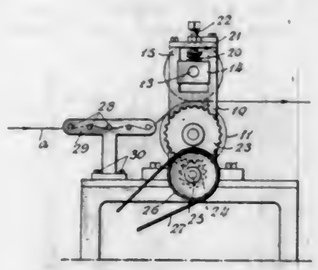
1,693,588. CONDENSER. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1924. Serial No. 732,147. 11 Claims. (Cl. 175—41.5.)



1. In a device of the character described including a pair of end plates, a stator element and a rotor element, each of said elements comprising a plurality of plates, a pair of members, each of said members being provided with notched sides, the portions between said notches being less than the distance across said notches, said members being adapted to be placed together so that the notches of one of said members are in staggered relation with the notches in the other of said members whereby the portions between the notches in one member cooperate with the notches in the other member to form slots to receive a portion of the circumferential edge of said plates whereby the said plats are supported and separated from each other by a pair of said members, and means formed integrally with certain of said members of said stator element for supporting said stator element between said end plates.

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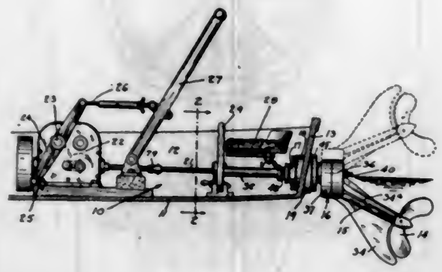
1,693,589. BIAS-CUTTING MACHINE. ANDREW C. BOLTON Miami, Fla. Filed July 7, 1927. Serial No. 203,925. 2 Claims. (Cl. 164—60.)



1. A bias cutting machine comprising a frame, a rotatable platen journalled on said frame for feeding the material to be cut, a rotatable drum journalled on said frame, a cutting knife, extending spirally about said drum and comprising an integral part thereof, mechanism for rotating said platen, and yielding means on said drum adjacent to the convolutions of said knife arranged to frictionally transmit the rotative movement of said platen to said drum.



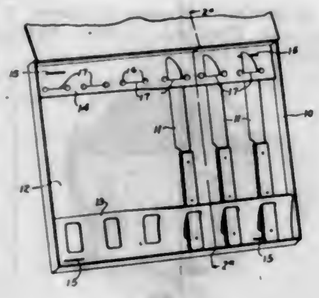
1,693,590. BOAT-PROPELLING MECHANISM. OSCAR J. BORGMAN, Hammond, Ind. Filed Mar. 17, 1926. Serial No. 95,207. 8 Claims. (Cl. 115—35.)



1. In combination with a boat, a propelling mechanism therefor, including a driving shaft having a fixed mounting within the boat and extended to a point exteriorly thereof, a driven shaft having a propeller thereon in angular relation to the driving shaft, gear connections between the two shafts, a swivelly mounted housing enclosing the driven shaft and the said gear connection, and means extended from the housing to a point within the boat for controlling swivelling movements of the former, substantially as described.

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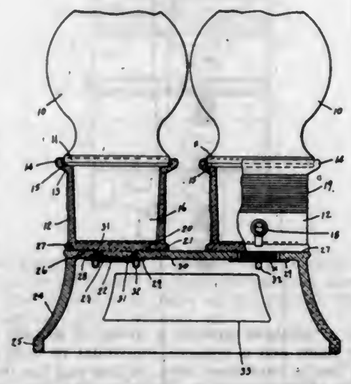
1,693,591. DISPLAY DEVICE. GEORGE E. CHATILLON, New York, N. Y., assignor to John Chatillon & Sons, New York, N. Y., a Corporation of New York. Filed July 26, 1924. Serial No. 728,349. 1 Claim. (Cl. 206—44.)



A display box comprising a removable back portion, yieldable and perforated end pieces secured to the face of said back in spaced relation and perforated to provide retaining means for the article to be displayed, one of said end pieces having the distance between its perforation and point of attachment greater than the height of the side of the box whereby the article on display may be removed from the box without removal of the back or end pieces.



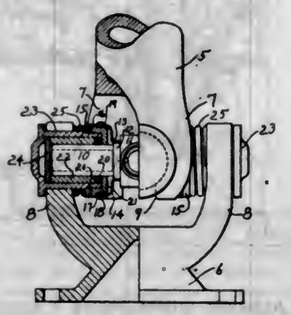
1,693,592. DISPENSING DISPLAY STAND. ALVIN C. CRIMMEL, Hartford City, Ind. Filed Feb. 23, 1928. Serial No. 256,088. 3 Claims. (Cl. 225—21.)



1. In combination with a container adapted to contain liquid to be dispensed, a hollow base having an upper face including an aperture therethrough, a tubular standard having a container supporting portion adjacent its upper end and a base supported portion at its opposite end, a peripherally threaded projection on said base supported portion and receivable by said aperture, and threaded means engaging said threaded projection and the base for clampingly securing the standard and base in unitary arrangement.

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1,693,593. UNIVERSAL JOINT. CHARLES D. CUTTING, Detroit, Mich. Filed Feb. 28, 1927. Serial No. 171,698. 9 Claims. (Cl. 64—102.)

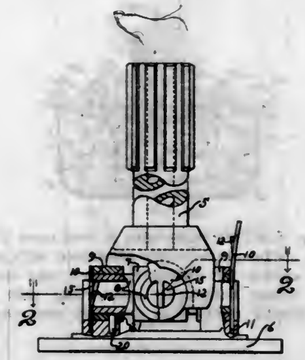


1. A universal joint comprising a pair of yokes, a cross member having arms disposed in said yokes, bearings for the arms in the yokes, end thrust bearings for the arms and resilient means for automatically maintaining the thrust bearings against the arms as the parts wear and for maintaining said cross member centrally of said yokes.

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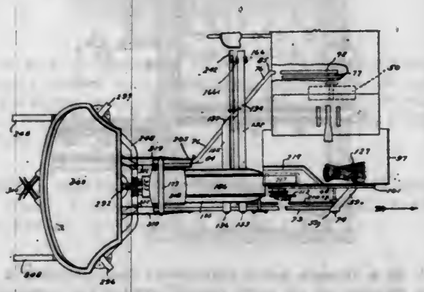
1,693,594. UNIVERSAL JOINT. CHARLES D. CUTTING, Detroit, Mich. Filed Dec. 30, 1927. Serial No. 243,543. 11 Claims. (Cl. 64—102.)

7. A universal joint including a yoke member having a radial bearing piece therein, an end thrust member for said piece positioned at the end thereof and carried by the yoke independently of the piece and means for holding the end thrust member against dislocation, comprising interengaging parts on the said piece and end thrust member.



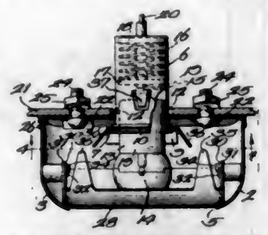
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1,693,595. GRAIN SHOCKER. ISAAC L. DAWSON, CLARENCE N. DAWSON, and RAYMOND W. DAWSON, Lawrence, Kans. Filed June 7, 1926. Serial No. 114,195. 16 Claims. (Cl. 56—407.)



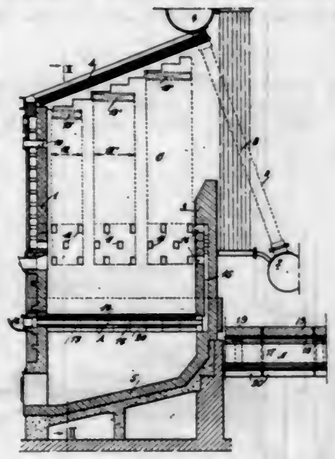
1. In a shocking machine, elements for collecting grain bundles at the side of a grain binder with the butts of the bundles arranged towards the front of the binder; thence, lifting, tossing and coveying the bundles in a reversed position and in a rearward direction; the alignment of the butts of the bundles against a flat plate as a straight edged abutting plate element, the support of the allied bundles upon a shock-former element forwardly positioned from and below the abutting board element, side members of the shock former having a pivotal connection with a ground spike element; means for compressing the side members at their pivotal ground spike connection; pivotal supports for the upper edge of the abutting plate and means for swinging said plate up and outwardly; means then acting for pivotally supporting and swinging the shock former and allied elements downwardly and to drive the spike into the ground; and means for effecting the release of the side elements of the shock-former from the settled shock and for returning the shock former elements to the initial position and for lowering the abutting board in and behind the shock former.

1,693,596. INSTRUMENT-BOARD LAMP. HARRY A. DOUGLAS, Bronson, Mich. Filed July 15, 1927. Serial No. 206,026. 8 Claims. (Cl. 240—8.16.)



8. A lamp structure comprising a cowl open at its rear end, a lamp socket permanently assembled with said cowl, a finishing washer for closing the open rear end of said cowl, and means detachably connecting said finishing washer in closing relation to the open rear end of said cowl.

1,693,597. PULVERULENT-FUEL FURNACE. CAMILLE DUQUENNE, Paris, France. Filed Oct. 10, 1925, Serial No. 61,719, and in France Oct. 27, 1924. 4 Claims. (Cl. 110—28.)



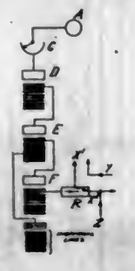
1. In a furnace using pulverulent fuel including a device forming an air grate placed between the combustion chamber and the ash pit, a plurality of inner air circulating conduits, refractory elements covering said conduits and carried thereby, each of said conduits comprising a number of interfitting iron sections, and a metallic beam lodged within and supporting each of said conduits, said beam being arranged in such a manner as to be bathed upon its entires ruface except the supporting surface by the air circulating within said conduit.

1,693,598. POLISHING PAD FOR LENSES AND PROCESS OF MAKING SAME. JOHN D. GAMBLE, Indianapolis, Ind., assignor to Continental Optical Corporation, Indianapolis, Ind., a Corporation. Filed Sept. 6, 1927. Serial No. 217,652. 2 Claims. (Cl. 51—278.)



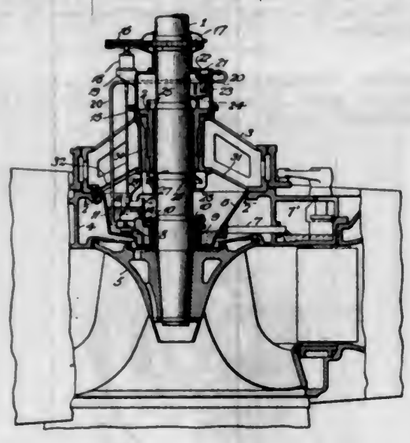
1. The process of making a lens polishing pad, which process consists in saturating a pad composed of felt and the like with pitch material, and thereafter extracting such pitch material from one side of the pad to the desired degree, substantially as set forth.

1,693,599. TELEPHONE SYSTEM. CHARLES GILLINGS, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 10, 1925, Serial No. 8,271, and in Great Britain Feb. 15, 1924. 15 Claims. (Cl. 179—27.)



15. In a telephone system, a group of private branch exchange lines, and a repeater individual to each of said lines for use by such lines when calling and for transmitting ringing current and feeding talking battery to said lines when called.

1,693,600. OIL AND WATER CONTROL FOR HYDRAULIC-TURBINE BEARINGS. WILLIAM F. GRANT, Newport News, Va., assignor to Newport News Shipbuilding and Dry Dock Company, a Corporation of Virginia. Filed Mar. 9, 1928. Serial No. 260,447. 6 Claims. (Cl. 253—26.)

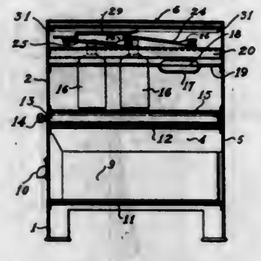


1. In a hydraulic turbine having a central shaft, a main bearing, an oil supply for lubricating the same, a pan or receptacle comprising separate compartments adapted to contain oil and water respectively, a packing gland connected with the bottom of said receptacle and surrounding said shaft, the top of said receptacle being substantially unobstructed whereby said packing gland is rendered accessible, and means for conveying oil and water away from said receptacle.

1,693,601. SHOE-SHINING APPARATUS. FRANK A. GROVES, Dayton, Ohio. Filed May 21, 1926. Serial No. 110,803. 1 Claim. (Cl. 15—265.)

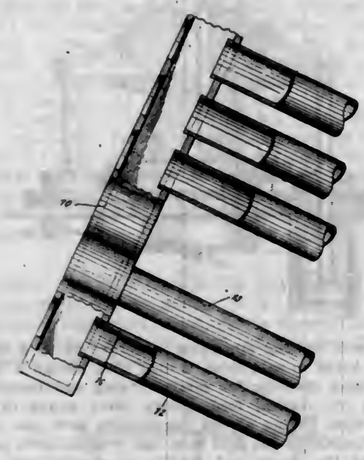
In combination, a cabinet, a folding top therefor, a platform therein for supporting a collapsible shoe supporting means, and a collapsible shoe supporting means adapted to be moved into operative position by forward pressure thereon of the foot of the user when the top of the cabinet is open, said shoe supporting means consisting of a shoe support, arms pivoted thereto,





said arms being also pivoted on said supporting platform, and means on said arms to limit the forward movement whereby the continued pressure of the foot on the shoe support will maintain it in position.

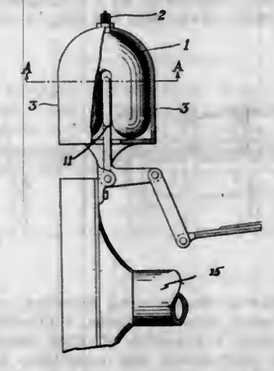
1,693,602. STEAM BOILER. ISAAC HARTER, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 30, 1922. Serial No. 548,185. 7 Claims. (Cl. 122—360.)



1. In a water-tube boiler, water chambers and water tubes connected to said chambers with their ends expanded into the walls of the chambers, certain of said tubes having end portions with walls thinner than the walls of the remaining portions of such tubes, and others of the tubes having a substantially uniform wall thickness throughout which is less than that of the body portions of the tubes having thinned end portions, the exterior diameters of all portions of the tubes being substantially uniform throughout their length, and all of the tubes having substantially the same external diameter.

1,693,603. ANTIFRICTION AIR-SPRING ASSEMBLY. JOHN ALLEN HEANY, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed Dec. 31, 1921, Serial No. 526,442. Renewed Apr. 13, 1927. 12 Claims. (Cl. 267—35.)

4. In a shock absorber, the combination of a casing having a grooved channel formed interiorly thereof, a resilient member enclosed by and movable bodily within said casing, and a projecting rib formed on said resilient member adapted to cooperatively engage said channel and



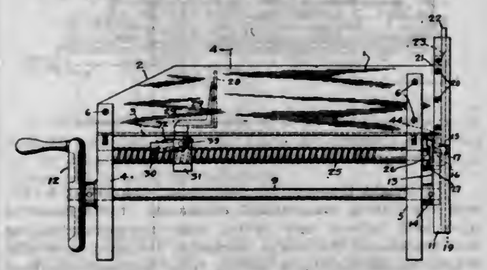
maintain said member and casing in a predetermined relative position, said casing having a cross sectional area greater than that of the tube.

1,693,604. BURNER WICK. ANDREW HELDRICH, New Brunswick, N. J., assignor to American Incubator Manufacturing Co., Inc., a Corporation of New Jersey. Filed Aug. 15, 1924. Serial No. 732,150. 11 Claims. (Cl. 67—69.)



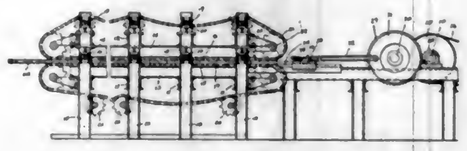
1. A wick or flame-ring formed of fabricated strands relatively crossed and respectively composed of fibrous and nonfibrous material, the fabricated structure having a zone free from said fibrous material, arranged to retard the flow of fuel therethrough.

1,693,605. MACHINE FOR SLICING CHEESE. EDWARD E. HOLLE, Arlington, N. J. Filed Nov. 19, 1927. Serial No. 234,372. 7 Claims. (Cl. 31—20.)



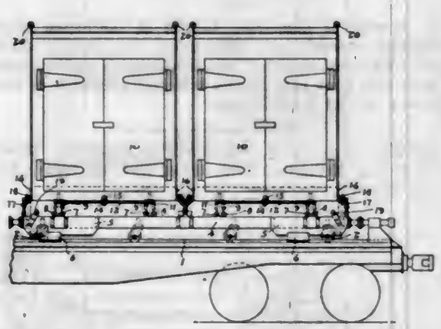
2. A machine for slicing cheese comprising in combination, a stationary trough, a pusher mounted in said trough, a cutter frame mounted at one end of said trough, a cutter blade in said frame, said frame having a slotted lower portion extending below the trough, guides for guiding the cutter frame and blade in a fixed vertical plane, a drive shaft mounted below and extending longitudinally of said trough, a crank carried by the drive shaft, a roller carried by the crank and engaging the slot in the cutter frame so as to reciprocate the frame and blade from below the trough, and means operable by said crank for advancing the pusher a predetermined distance after the cutter blade has returned above the path of travel of the cheese.

1,693,606. GLUING MACHINE. RICHARD COCKE JONES, deceased, Louisville, Ky., by Daphne Selden Jones, administratrix, Louisville, Ky., assignor to Gamble Brothers, Inc., Louisville, Ky., a Corporation. Filed June 11, 1927. Serial No. 198,224. 7 Claims. (Cl. 144—279.)



1. A machine of the character described, comprising a plurality of upper clamping chains, a plurality of lower clamping chains, a plurality of idler sprocket wheels for carrying said chains and permitting them to be moved longitudinally of the machine, said upper and lower chains being so spaced from each other as to permit a plurality of aligned boards to be clamped therebetween, and means for forcing said boards together against the resistance exerted in the movement of said chains for jointing them and simultaneously moving said boards and chains towards the discharge end of said machine.

1,693,607. FREIGHT-TRANSPORTING EQUIPMENT. WILLIAM PLATTS KELLETT, Brantford, Ontario, Canada. Original application filed Aug. 12, 1926, Serial No. 128,846. Divided and this application filed Sept. 21, 1927. Serial No. 221,084. 4 Claims. (Cl. 105—366.)



1. A freight transporting equipment, comprising a railway car having longitudinal trackways, trucks mounted upon said railway cars having roller supports engaging said trackways, transverse trackways arranged upon said trucks, goods containers having roller supports mounted on the transverse trackways on said trucks, means for locking the containers on said trucks, and means for locking said trucks on said cars.

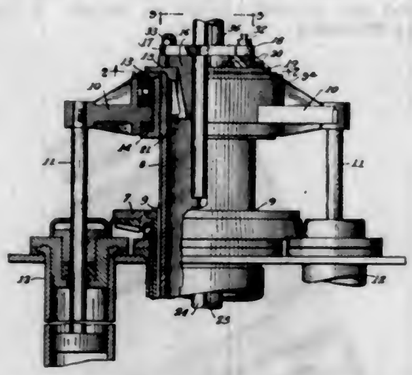
1,693,608. ELECTRIC SWITCH. SAMUEL LIPPERT, Garfield Heights, Ohio, assignor to The Outlook Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 13, 1924. Serial No. 719,721. 7 Claims. (Cl. 200—164.)

1. In a switch of the character set forth, the combination of a pivoted lever, a pair of opposed resilient contact leaves between and in substantially parallel relation to which the lever is adapted to swing, and a contact member carried by and extending transversely of the lever and arranged for wiping engagement with the contact



leaves when the lever is swung between them, the leaves being curved on an arc substantially concentric with the pivotal axis of the lever.

1,693,609. WELL-DRILLING APPARATUS. GERALD R. LIVERGOOD, Houston, Tex. Filed Apr. 25, 1924. Serial No. 708,844. 17 Claims. (Cl. 255—22.)



1. In well drilling apparatus, a rotary table, a sleeve slidingly keyed to said table, a drill stem havign a longitudinal drive shoulder for rotary driving and transverse shoulders for vertical feed, rotary drive means carried by the sleeve having sliding engagement with the longitudinal shoulder of the drill stem and vertical drive means carried by the sleeve and readily engageable with and disengageable from the transverse shoulders of the drill stem.

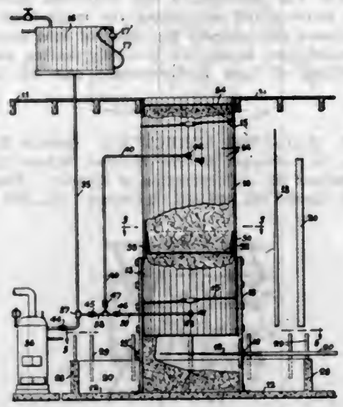
1,693,610. ART OF PRODUCING TUBULAR ARTICLES. ALBERT C. LUSHER, Waterbury, Conn., assignor to Scovill Manufacturing Co., Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 2, 1922. Serial No. 533,705. 2 Claims. (Cl. 29—157.)



1. The herein described method of producing partially assembled tire valves which comprises extruding a slug into a headed tube, annealing said tube, positioning therein an abutment for a valve mechanism, threading the exterior of said tube, reducing the unheaded end of the tube, and forming, adjacent the head, a thickened wall for the tube, capable of being grooved.



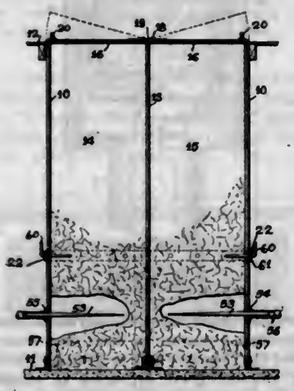
1,693,611. MANUFACTURE OF LIVESTOCK FEEDS. CHARLES R. MABEE, Buffalo, N. Y., assignor to Mabee Patents Corporation, Dover, Del., a Corporation of Delaware. Filed Sept. 23, 1925. Serial No. 58,125. 7 Claims. (Cl. 99—2.)



1. The method of producing a live stock feed which includes introducing farm roughage into a vertical container arranged to permit the withdrawal of treated roughage from the base thereof, packing the roughage and subjecting the same to a conversion treatment, and subsequently causing the lower portion of said mass to be laterally moved bodily to a point at one side of the container to permit the remainder of the mass to move downwardly through said container.

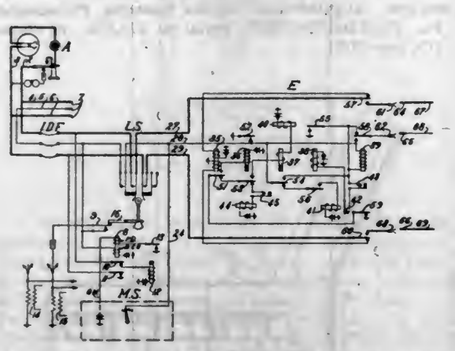
2. In apparatus for the preparation of live stock feed, the combination with a vertical container for the treatment of a mass of farm roughage, of means to laterally displace the lower portion of a column of roughage, said means including a member arranged to be extended about one side of a mass of roughage adjacent the base of said container.

1,693,612. MANUFACTURE OF LIVESTOCK FEEDS. CHARLES R. MABEE, Buffalo, N. Y., assignor to Mabee Patents Corporation, Dover, Del., a Corporation of Delaware. Filed Sept. 23, 1925. Serial No. 58,126. 4 Claims. (Cl. 99—2.)



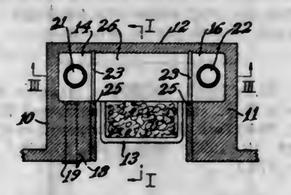
4. Apparatus for the treatment of farm roughage including a vertical container, means at the top of the container to permit the introduction of the roughage therein, means at the bottom of the container to permit the withdrawal of roughage therefrom, a lever extending through one of the walls of said container for loosening a packed mass of roughage in the lower portion thereof, and removable pins extending through certain of the walls and extending into the interior of the container at a point above said lever releasably to support material within said container.

1,693,613. TELEPHONE SYSTEM. TALBOT G. MARTIN, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 17, 1926. Serial No. 88,793. 9 Claims. (Cl. 179—27.)



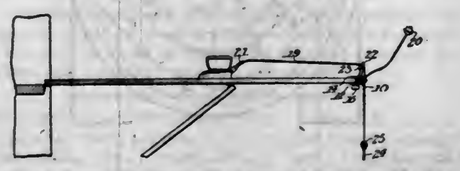
7. In a telephone system, telephone lines of different character, means whereby an operator may answer calls from any of said lines, means for indicating to the operator the character of the calling line including a tone source for connection with the sleeves of the lines, and means for applying the current from said source to said sleeve on originating calls only and for preventing said tone current from standing on the sleeves when the lines are idle.

1,693,614. AIR-CIRCULATING FIREBACK. WILLIAM J. MCCAIN, Livingston, Ala. Filed June 11, 1928. Serial No. 284,643. 4 Claims. (Cl. 126—131.)



1. In an air circulating fire back for fire-places, a manifold at each end of the fire back, air conduits connected to the manifolds, and a removable heat transfer section interposed between the manifolds.

1,693,615. IRONING-BOARD APPLIANCE. RAYMOND J. MCJOHN, Chicago, Ill. Filed Oct. 16, 1925. Serial No. 62,821. 1 Claim. (Cl. 248—30.5.)

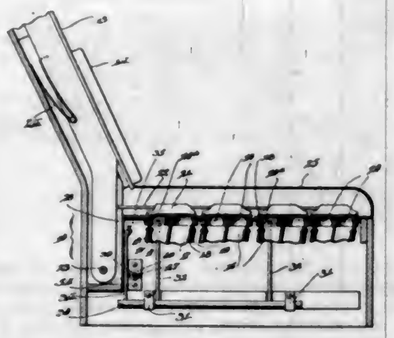


In a device of the character described, the combination of a bracket member whereby the device may be attached

to an ironing board, a pair of laterally separated cord supporting elements arranged at and projecting from an edge of the bracket, one of said elements being extended upwardly to provide means for supporting a cord section which extends therefrom to the iron in substantially parallel relation to the face of the ironing board, said cord supporting elements providing means which co-operate with each other to arrange another portion of said cord along and beyond an edge of the bracket member, and one of said cord supporting elements providing means for securing the cord to the bracket.

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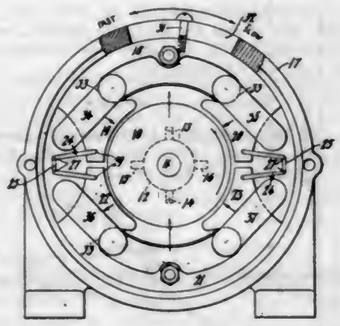
1,693,616. ACCORDION. FRANK NARDONE, Philadelphia, Pa. Filed Mar. 28, 1927. Serial No. 178,826. 12 Claims. (Cl. 84—376.)



3. In an accordion having rows of wind cells, openings in the wind cells, valves for closing the openings and valve slides adapted to close certain of the openings independently of the valves; means for actuating the valve slides including a gear, a pinion meshing with the gear, a connecting rod eccentrically connected to the pinion, a shaft mechanically connected to the connecting rod and to the valve slides, means for causing the gear to make a partial revolution, and means for yieldingly holding the gear at the end of such partial revolution.

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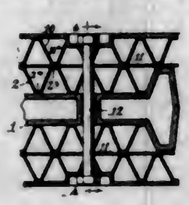
1,693,617. ELECTRIC MOTOR. ALFRED E. OSWALD, Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 19, 1925. Serial No. 57,277. 31 Claims. (Cl. 172—276.)



1. In an electric motor, the combination of an armature, a commutator, a pair of main brushes, a pair of auxiliary brushes, each brush of a pair being between and fixed relatively to the brushes of the other pair, a field-structure embodying means capable of substantially limiting field distortion and displacement of the magnetic neutral plane relatively to said field-structure, said field-structure including a coil in series with said main brushes and also including a coil connected across said auxiliary brushes and controlling the magnetism of the first-mentioned coil whereby the speed of said motor may be controlled, and means for variously setting the relative positions of said field-structure and all of said brushes.

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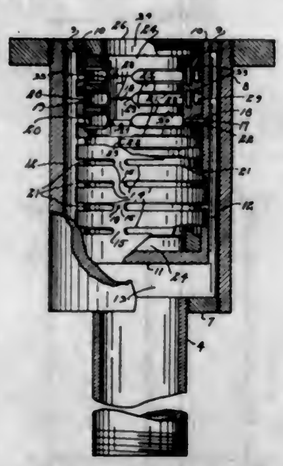
1,693,618. RADIATOR STRUCTURE. GERALD E. OTIS, Moline, Ill., assignor to The Herman Nelson Corporation, Moline, Ill., a Corporation of Illinois. Filed July 2, 1923. Serial No. 648,916. 2 Claims. (Cl. 257—139.)



2. In a radiator structure, the combination with a single hollow cast metal core having relatively large flat heating surfaces on opposite sides thereof; of heat-radiating plates of sheet metal mounted on said core, said plates having core-contacting elements and heat radiating elements forming a cellular structure adjacent the heating surfaces of said core; and a tie member for holding the plates on the core and maintaining the plates compressed to force said core-contacting elements thereof into intimate contact with the flat surfaces of the core.

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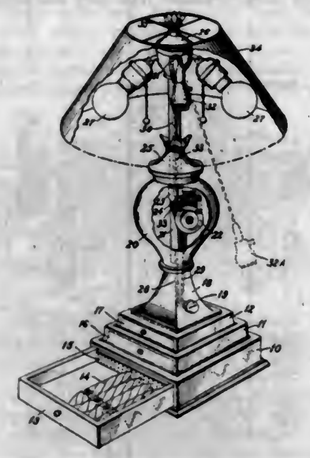
1,693,619. NOISELESS CHECK VALVE. DENT SANDFORD, Toledo, Ohio. Filed May 26, 1923. Serial No. 641,562. 2 Claims. (Cl. 251—119.)



1. A compressor check valve embodying a chamber having an end opening, a concentric shell as a closure for the opposite end of the chamber and protruding thereinto, said shell having annular ports in series in communication with said chamber, there being bridge means between said ports provided with projections, a split ring within the shell for each annular port, said ring oppositely extending from said projections, abutting spacers for the rings engaging said projections, and pins staggered as to said projections for anchoring the spacers together.



1,693,620. SMOKER'S LAMP. WULF SILVERMAN, New York, N. Y. Filed Mar. 10, 1927. Serial No. 174,148. 4 Claims. (Cl. 240—2.)



4. A smoker's lamp comprising a rectangular base with receptace drawers therein, a wire connector, an enclosing hollow body on said base, a wire reel therein, a lamp socket above said body and supported thereon, a cigar lighter supported by said body, a flexible wire connecting the reel and the lighter, a spring arranged to rotate the reel to draw said flexible wire into the structure, and wires inside of the structure interconnecting the wire connector, the flexible wire and the lamp socket.

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1,693,621. SHEET-METAL PIPE. JOSEPH DONALD SMITH, St. Marys, Ontario, Canada, assignor of one-half to John K. Richardson, St. Marys, Ontario, Canada. Filed July 27, 1927. Serial No. 208,856. 5 Claims. (Cl. 126—309.)



1. In a sheet metal pipe, a sheet of metal bent into cylindrical form and provided with seam forming edges, and having portions of the body of said sheet continuing beyond one of said edges and forming free integral lug extensions bent back over the other edge to secure the joint against separation.

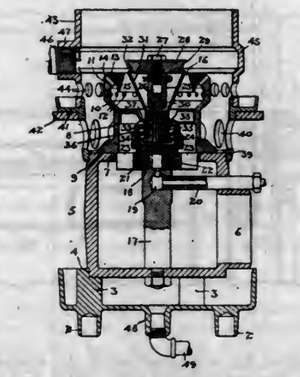
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1,693,622. GREETING-CARD STORING AND DISPLAYING HOLDER. CHARLES SPAULDING, Hingham, Mass., assignor to Spaulding-Moss Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 10, 1925. Serial No. 8,148. 3 Claims. (Cl. 206—44.)



2. A container for a stock of articles, said container comprising a box having a supporting shelf fixed within the box, and below the tops of the walls thereof, and arranged to permit access to stock articles below it, and to prevent accidental removal of said articles, and a cover constructed as a sample-exhibiting pocket loosely mounted on said shelf and freely movable to give access to a stock of articles below the shelf.

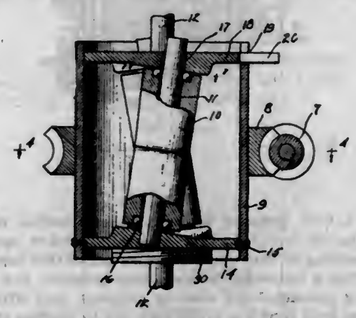
1,693,623. OIL BURNER. MOFFAT ST. CLAIR, Galt, Ontario, Canada, assignor of one-half to William S. Edwards, Toronto, Canada. Filed May 11, 1925. Serial No. 29,507. 5 Claims. (Cl. 158—77.)



1. An oil burner, comprising the combination with a combustion chamber of a centrifugal oil distributor, a rotary fan secured to said distributor below the same, a tubular casing encircling said oil distributor and terminating immediately below the level of the plane of the distributed oil and enclosing the rotary fan, a second tubular casing spaced from and encircling the aforesaid casing and extending beyond the discharge end of said oil distributor into the interior of said combustion chamber, means for supplying air under pressure to the interior of the inner casing, circumferentially spaced openings through the wall of said outer casing in a plane immediately below the plane of the distributed oil, admitting a restricted inflow of air from the interior of the combustion chamber into the interior of said outer casing, circumferentially spaced openings in the wall of said outer casing in a plane below the aforesaid openings and admitting a free flow of air from the combustion chamber interior, and means for supplying oil to said centrifugal oil distributor.

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1,693,624. FRICTION SCREW-LIFTING MECHANISM. SIGURD STRUNGE, Wyandotte, Mich. Filed Apr. 17, 1926. Serial No. 102,645. 10 Claims. (Cl. 254—100.)



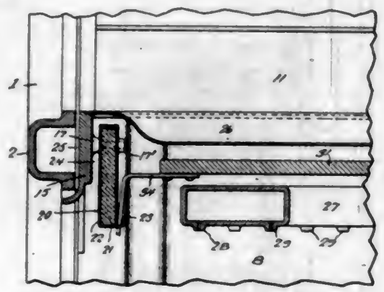
1. Lifting mechanism comprising a pole, a plurality of angularly arranged friction rollers engaging the periphery of the pole, a frame encircling the pole and carrying the rollers, and means for rotating the frame.

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1,693,625. OVEN CONSTRUCTION. THOMAS E. TAYLOR, Mansfied, Ohio, assignor to The Tappan Stove Company, Mansfield, Ohio, a Corporation of Ohio. Filed Nov. 26, 1926. Serial No. 150,828. 26 Claims. (Cl. 126—39.)

1. An oven construction for gas ranges comprising a baking compartment and a broiling compartment, a burner

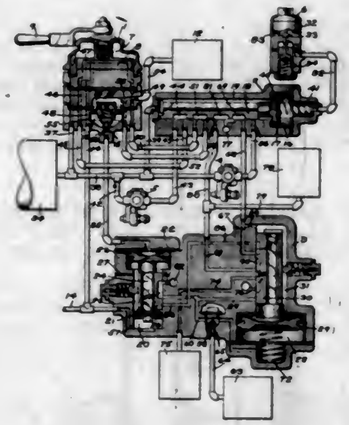
supported in said broiling compartment, a front strip extending across the front of said oven, a heat insulating



member carried by said front strip in spaced relation thereto and disposed between said burner and said front strip.

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1,693,626. SPLIT REDUCTION DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 27, 1926. Serial No. 151,087. 7 Claims. (Cl. 303—18.)

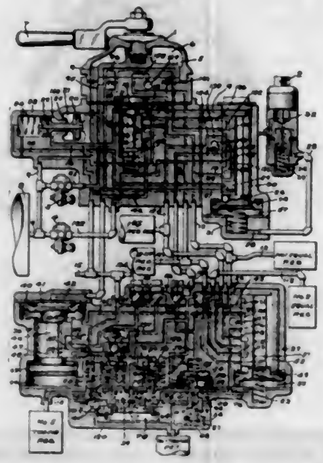


1. In a fluid pressure brake, the combination with a brake pipe, of two reduction reservoirs, means operated upon a venting of fluid under pressure into either reservoir for effecting a reduction in brake pipe pressure, one reservoir being connected for venting purposes only after the venting of fluid from the brake pipe due to venting of fluid under pressure to the other reservoir has ceased.

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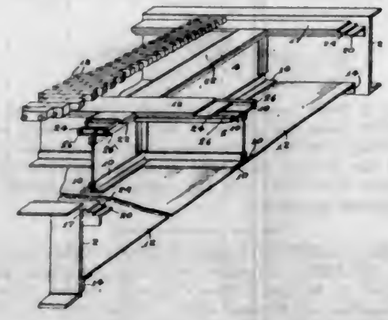
1,693,627. FLUID-PRESSURE BRAKE. THOMAS H. THOMAS, Edgewood, and CLAUDE A. NELSON, Wilmerding, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1927. Serial No. 233,791. 16 Claims. (Cl. 303—18.)

2. The combination with a brake pipe, of means for effecting a reduction in brake pipe pressure in two stages including two equalizing reservoirs, means for venting fluid under pressure from said reservoirs to effect the first stage of reduction in brake pipe pressure and for venting fluid under pressure from only one of said reservoirs in effect the second stage of reduction in brake pipe pressure, valve means adapted to initially connect said reservoirs together, and means for effecting the operation of said valve means to disconnect said reservoirs.



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1,693,628. TRAVELING CHAIN GRATE. JOHN VAN BRUNT, Flushing, N. Y., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed July 4, 1923. Serial No. 649,890. 1 Claim. (Cl. 110—40.)



A traveling grate having, in combination, a supporting structure for the upper run of the grate comprising a girder, a wearing plate upon which the upper run of the grate slides mounted upon said girder, and a layer of heat insulating material interposed between said wearing plate and girder, said wearing plate and girder being so constructed as to extend over the top and bottom sides and longitudinal edges of said layer of heat insulating material.

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1,693,629. NONCLOGGING SPRAY NOZZLE. ALFRED L. WEBER, Winchester, Mass., assignor to E. B. Badger and Sons Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 23, 1922. Serial No. 583,680. 21 Claims. (Cl. 299—114.)

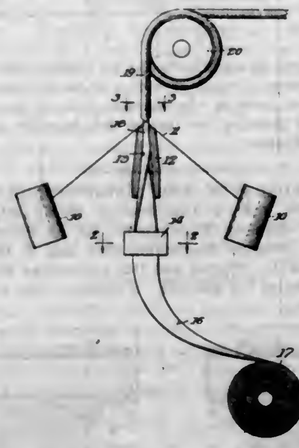
1. A spray nozzle comprising a hollow body of generally circular cross section in planes perpendicular to a longitudinal line, said body having a wall at one end, an outlet orifice adjacent to the opposite end, said orifice being substantially concentric with the body and of substantially larger area and dimensions than the aforementioned inlet, and a tangential inlet adjacent to the end in which said wall is located, the side walls of the body being of tapered formation convergently from the part in which the inlet is located toward the outlet orifice.



5. A non-clogging spray nozzle comprising a hollow body with an open unobstructed interior, having its interior surface of substantially conical form converging substantially from an end wall to a restricted zone surrounding an outlet orifice, and having an inlet passage arranged substantially tangentially of said body adjacent to said end wall, the latter and said interior surface being formed to cause the liquid entering the nozzle to flow around said interior surface in the form of a spiral hollow stream of decreasing thickness to said outlet.

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1,693,630. INSULATING TUBE AND PROCESS OF MAKING SAME. HUGO H. WERMINE, Chicago, Ill., assignor to Belden Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 15, 1922. Serial No. 553,286. 3 Claims. (Cl. 247—40.)

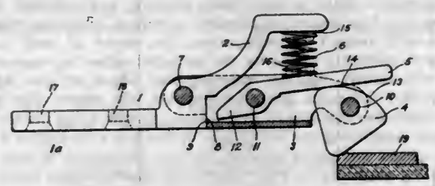


1. In a non-metallic conduit, the combination of an inner lining comprising a single strip of flexible insulating material coiled cross-wise of the length thereof, to form a cross-sectionally spiral, multi-walled tube, the edges of the strip being disposed lengthwise of the tube, and a braided cover over said tube for preventing uncoiling thereof.

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1,693,631. CONTROL APPARATUS. HAROLD W. WILLIAMS, East Pittsburgh, and DOUGLAS G. BOOZER, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 3, 1926. Serial No. 152,890. 9 Claims. (Cl. 200—166.)

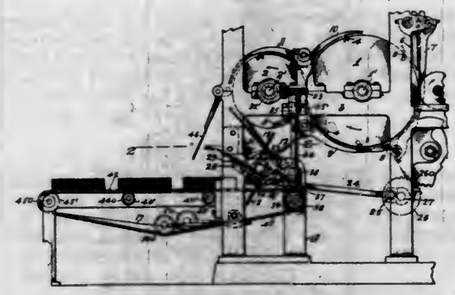
1. A contact finger comprising a base member, a contact-carrying member pivotally mounted on said base member and carrying a contact tip pivotally mounted thereon, a lever pivotally mounted on said contact-carrying member



and resting on said contact tip and a spring adapted to force said lever against said contact tip and urge said contact-carrying member toward its normal position.

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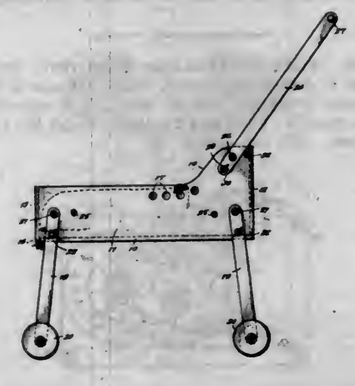
1,693,632. DELIVERY MECHANISM. ADOLPH M. ZUCKERMAN, New York, N. Y., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y., a Corporation of New York. Filed May 6, 1924. Serial No. 711,346. 13 Claims. (Cl. 93—93.)



1. In a pile or stack delivery, the combination of a traveling carrier, means for advancing the carrier, a collector having means for receiving products, means for delivering a number of products to the collector, and means for actuating the collector so that the product receiving means are lowered below the surface of the carrier to lay the collected products on the carrier in a pile.

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1,693,633. CONVERTIBLE GOCART AND CRIB. SARAH ROGERS ALLEN, Bethel, Conn. Filed Apr. 1, 1927. Serial No. 180,120. 2 Claims. (Cl. 280—31.)

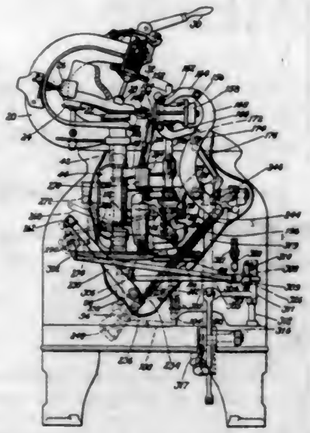


1. In a convertible go-cart crib, a body portion having a base, longitudinal sides, and transverse head and foot

ends, front and rear leg-supports at each side having wheels at their lower ends disposed at their outer sides, and pivotally mounted at their upper ends outwardly of the longitudinal sides of said body portion, and adapted to be swung from extended relation to folded overlying relation with respect to each other, the wheel of each leg support partially overlying the adjacent other leg-support in said folded relation, whereby the wheel of one leg-support retains the other leg support, the upper edge of the lower leg-supports in said folded relation being parallel to and supporting the lower edge of the upper leg-supports; and means carried by each leg support for rigidly securing said leg supports in their respective extended and folded relation.

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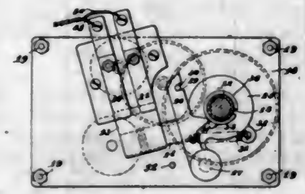
1,693,634. FINISHING MACHINE. WILLIAM RODERICK BARCLAY and FRANK BYCROFT KEALL, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 26, 1925, Serial No. 58,942, and in Great Britain Oct. 22, 1924. 23 Claims. (Cl. 12—17.)



1. A machine comprising mechanism for causing a plurality of relative traversing movements between a shoe treating tool and a shoe support to cause the tool to treat the same area of a shoe on the support more than once, means for operating the tool during a traversing movement, and means for controlling the character of the operation of the tool constructed and arranged to operate the tool in one fashion during one traversing movement and in a different way during another different traversing movement.

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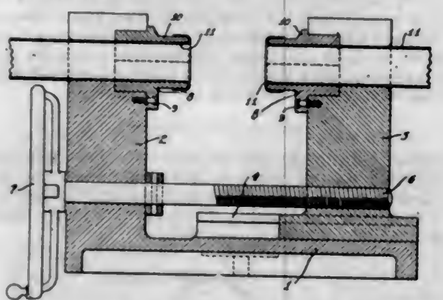
1,693,635. TIME-CONTROLLED ELECTRIC SWITCH. DANIEL L. CHANDLER, Boston, Mass., assignor to Champ Electrical Company, Boston, Mass., a Corporation of Massachusetts. Filed May 27, 1927. Serial No. 194,790. 9 Claims. (Cl. 200—39.)



2. A time controlled switch having a fixed switch member, a lever carrying a cooperating switch member, a rotary shaft, said lever being loosely mounted on said shaft, a locking lever pivoted at one end to said switch lever, a stationary member with which the other end of said locking lever is adapted to engage to lock the switch lever when the switch is closed, a spring which holds the locking lever in locking position, a cam carried by the shaft which during the rotation of the shaft in one direction engages the locking lever and releases the lock thereby allowing the spring to turn the switch lever in a direction to close the switch, a dial, a pointer carried by the shaft which indicates on the dial the length of time the shaft must turn in the reverse direction to open the switch and time controlled mechanism for rotating the shaft which is wound up by the turning of the shaft to set the pointer and which becomes operative to turn the shaft in a reverse direction and move the pointer when the shaft is left free to turn after the winding-up operation.

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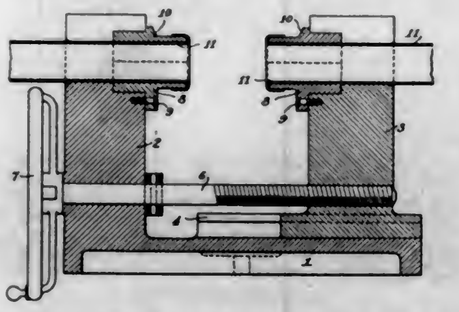
1,693,636. METHOD OF MAKING INNER TUBES. JOHN P. COE, Yonkers, N. Y., assignor to G & J Tire Company, Indianapolis, Ind., a Corporation of Indiana. Filed Aug. 4, 1926. Serial No. 126,971. 10 Claims. (Cl. 154—14.)



1. The method of manufacturing an endless tube which comprises forming a length of tubing of unvulcanized rubber composition, turning the opposite ends of the tubing outwardly, and pressing the turned ends together to unite the same by adhesion.

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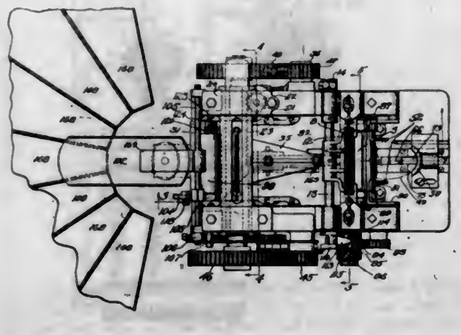
1,693,637. APPARATUS FOR MANUFACTURING INNER TUBES. JOHN P. COE, Detroit, Mich., assignor to G & J Tire Company, Indianapolis, Ind., a Corporation of Indiana. Original application filed Aug. 4, 1926, Serial No. 126,971. Divided and this application filed Apr. 10, 1928. Serial No. 268,869. 3 Claims. (Cl. 154—5.)



1. An apparatus for splicing hollow rubber articles into an endless form comprising means encircling each end of the hollow article and permitting portions of the open end of the article to be turned outwardly, and means for moving the first mentioned means together to join the ends of the hollow article in the form of an annular seam, said first mentioned means having relatively movable parts permitting removal of the endless article after seaming.



1,693,638. AUTOMATIC TOP-LIFT GRADING AND DISTRIBUTING MACHINE. LEANDER A. COGSWELL, Manchester, N. H., assignor to Lacene Manufacturing Company, Manchester, N. H., a Corporation of Maine. Filed Aug. 20, 1921. Serial No. 494,009. 52 Claims. (Cl. 209—88.)



26. A blank sorting machine having, in combination means for measuring a blank, and spring-actuated means automatically responsive to said measuring means for causing the blank to be delivered in accordance with its measurement.

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1,693,639. METHOD OF TREATING IMPURE LEAD AND LEAD ALLOYS. GEORGE E. DALBEY, East Berlin, and THOMAS P. HANFORD, Berlin, Conn., assignors to The Stanley Chemical Company, East Berlin, Conn., a Corporation of Connecticut. Filed Jan. 14, 1927. Serial No. 161,237. 1 Claim. (Cl. 75—15.)

The method of recovering valuable products from impure lead containing tin and antimony, which comprises treating the impure lead with a sodium-antimony salt and causing the antimony in said salt to be reduced to metallic antimony and the tin in the impure lead to replace the antimony in said salt, forming sodium stannate.

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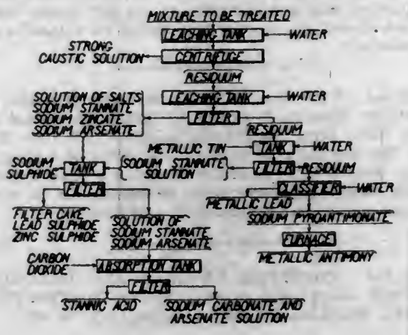
1,693,640. PROCESS FOR TREATING IMPURE LEAD. GEORGE E. DALBEY, East Berlin, and THOMAS P. HANFORD, Berlin, Conn., assignors to The Stanley Chemical Company, East Berlin, Conn., a Corporation of Connecticut. Filed May 4, 1926. Serial No. 106,726. 4 Claims. (Cl. 75—15.)

1. The process of treating impure lead for the removal of arsenic, tin, antimony and the like, which comprises bringing the metal in a molten condition under the influence of litharge and at the same time making gradual additions of a water solution of a caustic alkali and maintaining the whole at a temperature which will always allow the reacting materials on the surface of the molten metal to remain in a powdery or granular condition.

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1,693,641. METHOD OF TREATING MIXTURES CONTAINING ALKALI SALTS OF CERTAIN METALS. GEORGE E. DALBEY, East Berlin, and THOMAS P. HANFORD, Berlin, Conn., assignors to The Stanley Chemical Company, East Berlin, Conn., a Corporation of Connecticut. Filed Jan. 14, 1927. Serial No. 161,238. 10 Claims. (Cl. 75—18.)

1. The method of treating mixtures containing sodium-metallic salts to recover valuable products, which comprises dissolving any caustic soda which may be present in the mixture and separating it from the undissolved materials, dissolving the metal salts other than sodium plumbate and plumbite and any sodium pyro antimonate that may be present due to the action of water on sodium




antimonate in the original mixture, separating such solution from the undissolved materials, treating the undissolved mixture of sodium plumbate and plumbite and sodium pyro antimonate to obtain metallic lead and sodium pyro antimonate, and treating said solumtion of metal salts to obtain stannic acid.

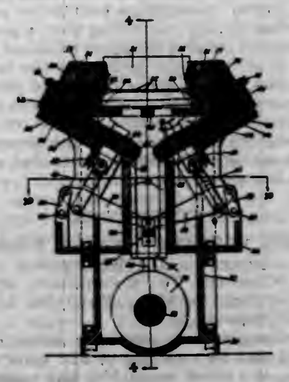
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1,693,642. METHOD OF TREATING METALLIC PARTICLES. GEORGE E. DALBEY, East Berlin, and THOMAS P. HANFORD, Berlin, Conn., assignors to The Stanley Chemical Company, East Berlin, Conn., a Corporation of Connecticut. Filed Jan. 14, 1927. Serial No. 161,235. 3 Claims. (Cl. 75—15.)

1. The method of treating metallic particles of lead alloys containing one or more of the metals tin, antimony, arsenic, which comprises subjecting the particles, at temperatures substantially below the fusing point thereof, to the influence of a water solution of an alkali metal in the presence of an oxidizing agent.

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1,693,643. MACHINE FOR MAKING AUTOMOBILE DOORS. WALTER H. D'ARDENNE, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 27, 1921. Serial No. 496,067. 6 Claims. (Cl. 113—54.)



1. A machine of the class described comprising a frame, a bed removably secured thereto and constituting a fixed

die member, on which the door panels rest, and conforming to the contour of the door to be made, a plurality of removable die members movable along paths at acute angles to the plane of said bed, to clinch a flange on one of said panels over the edge of the other, said die members having working faces conforming to the contour of the edge portions of the door to be made, electro-magnetic means for holding said panels rigidly on the bed during the operation of said die members, and means for actuating said die members.

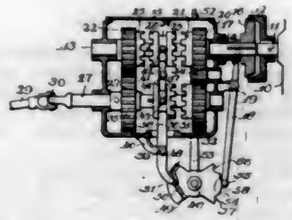
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1,693,644. WET PROCESS FOR MANUFACTURING CEMENT. WERNER P. ECKDAHL, Chicago, Ill. Filed May 24, 1926. Serial No. 111,385. 3 Claims. (Cl. 106—25.5.)

3. The method of preventing the setting of a slurry of finely divided silicious material having a basic reaction, which comprises passing gases relatively high in carbon dioxide content into contact with said slurry.

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1,693,645. COMBINED REVERSE AND REDUCTION GEAR. EMERY H. FAHRNEY, Chicago, Ill. Filed Feb. 7, 1927. Serial No. 166,295. 4 Claims. (Cl. 74—59.)

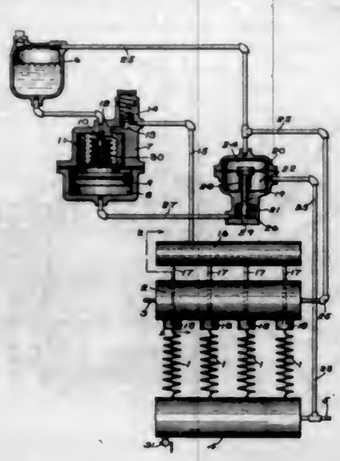


1. In combination a driving shaft, a driven shaft, a forward drive connection between the shafts, clutch mechanism for controlling said connection, a reverse drive connection between said shafts, clutch mechanism for controlling the last recited connection, a lever device common to said clutch connections for controlling them, a power shaft, a clutch connection between the power shaft and said driving shaft, a lever device for controlling the last recited clutch connection, a single pivotally mounted cam element, said cam element having three distinct surfaces formed on different radii and operating upon the first recited lever device, a separate cam surface on the cam element operating upon the second recited lever device, and means for swinging the cam element about its pivot.

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1,693,646. AIR PURIFIER. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1926. Serial No. 142,619. 5 Claims. (Cl. 303—88.)

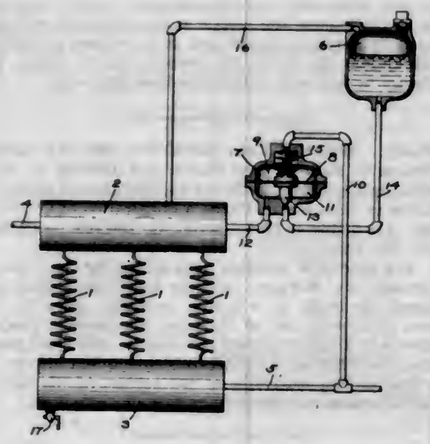
3. The combination with separating means interposed in a stream of fluid for collecting oil and water contained in said stream, of a piston operated by fluid under pressure for forcing a liquid into said means for clearing said means of a collected oil and water, a valve operated by said piston for controlling the supply of liquid to said piston, a diaphragm subject to the opposing pressures of the fluid inlet and outlet of said separating means, and a double beat valve operated by said diaphragm and having one



position for supplying fluid under pressure to said piston and another position in which said piston is connected to the atmosphere.

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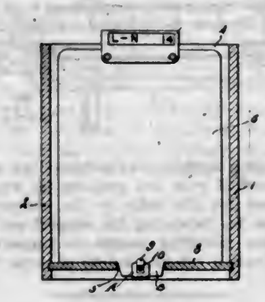
1,693,647. AIR PURIFIER. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 19, 1926. Serial No. 142,620. 4 Claims. (Cl. 303—88.)



1. The combination with a pipe coil interposed in a flow of fluid for separating oil and water from the flowing fluid, of means operated upon the clogging of said coil with oil and water for supplying a liquid to said separating means which acts by gravitational flow through said coil to clear same of the collected oil and water.



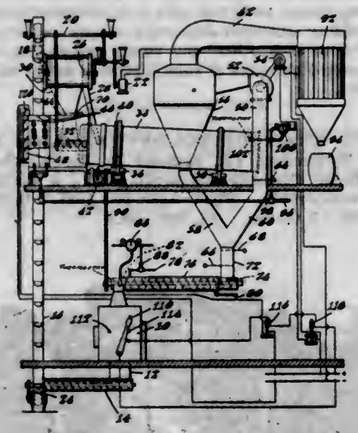
1,693,648. REENFORCING DEVICE FOR SIDES OF PERFORATIONS. LABURTON A. GALE, Belmont, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 28, 1924. Serial No. 746,332. 4 Claims. (Cl. 129—10.7.)



1. The combination with a sheet or card having a perforation adjacent a margin thereof, of a pair of elements on opposite sides of the sheet in the region of said perforation, and integral parts on one element for engaging the other, passing through the perforation and reenforcing the sheet surrounding the perforation and adjacent the margin.

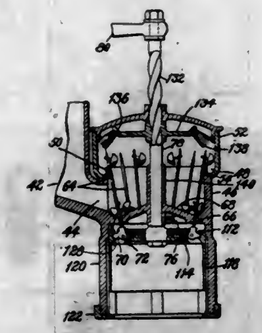
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1,693,649. METHOD OF AND APPARATUS FOR TREATING STARCH. HAROLD W. HARRIGAN, Medford, Mass., assignor to Hersey Manufacturing Company, South Boston, Mass., a Corporation of Massachusetts. Filed Nov. 5, 1927. Serial No. 231,297. 20 Claims. (Cl. 107—3.)



18. In combination, a machine for molding starch containing a source of starch supply and a source of used starch unfit for immediate reuse, a treating apparatus for progressively and continuously removing said unfit starch, drying it, cooling it and returning it to the molding machine, comprising apparatus for setting up a current of heated air, and means for rendering the control of said apparatus for producing the current of heated air dependent upon the control of the starch molding machine.

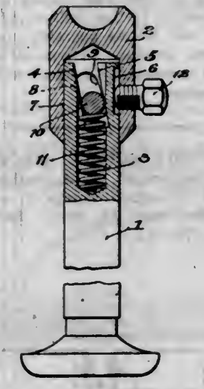
1,693,650. SUPPLYING APPARATUS. ALBERT LATHAM, deceased, Beverly, Mass., by James W. Nourbourn, Somerville, Mass., administrator, assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Original application filed June 26, 1920, Serial No. 391,908. Divided and this application filed Aug. 4, 1925. Serial No. 48,084. 43 Claims. (Cl. 218—12.)



1. In a supply apparatus, a container for objects, a conveyor associated with the container, a carrier arranged to engage objects in the container and hold them independently of said container, means for moving the container and carrier relatively to deliver objects from the container and to free them from the carrier, and means movable into engagement with delivered objects to transfer them to the conveyor.

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1,693,651. TAPPET FOR VALVES. RODNEY W. MANNING, Riverside, R. I. Filed Mar. 31, 1927. Serial No. 179,867. 12 Claims. (Cl. 123—90.)



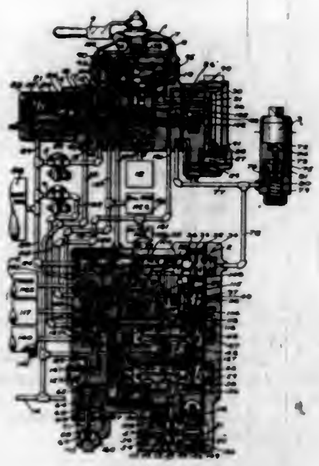
10. In a tappet, a pair of telescopic members, means disposed between said members to cause relative movement thereof away from each other, and means for holding the members against movement by said first named means while permitting the members to be moved toward each other by a force greater than that of the holding means.

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1,693,652. SPLIT-REDUCTION DEVICE. JOSEPH C. MCCUNE, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 23, 1927. Serial No. 200,858. 31 Claims. (Cl. 303—18.)

6. In a fluid pressure brake, the combination with a brake pipe, of an equalizing reservoir, a valve mechanism

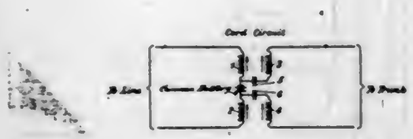
subject to the opposing pressures of the equalizing reservoir and the brake pipe for venting fluid from the brake pipe, a first and a second reduction reservoir, means for first connecting the first reduction reservoir to said equalizing reservoir, a control valve device having a control portion and a regulating portion, a timing reservoir, another reservoir, a valve device for controlling the opera-



tion of said regulating portion to permit said control portion to operate to connect said timing reservoir and last mentioned reservoir to further reduce the pressure in said timing reservoir, and means operable upon the reduction in timing reservoir pressure for connecting said first and second reduction reservoirs to effect a second reduction in brake pipe pressure.

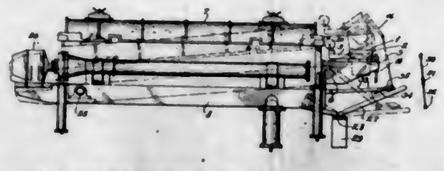
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1,693,653. BATTERY SUPPLY CIRCUIT. FREDERICK W. MCKOWN, Englewood, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 13, 1927. Serial No. 219,353. 1 Claim. (Cl. 179—41.)




In a battery supply circuit designed to be connected at one end to a loop and at the other end to a trunk, a split repeating coil having a pair of windings directly connected to the loop side thereof and a pair of windings directly connected to the trunk side thereof, a battery so connected in the circuit as to be between the two windings of each of said pairs of windings, and two condensers connected one between each winding directly connected to the trunk and said battery.

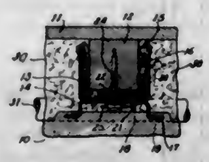
1,693,654. CENTRIFUGAL CASTING MACHINE (WEIGHING MECHANISM). WILLIAM D. MOORE and WALTER MORGAN, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 7, 1927. Serial No. 224,636. 9 Claims. (Cl. 22—65.)



1. In a casting machine, the combination with a ladle of means connected with the machine for supporting the ladle, a support for the ladle on the connecting means, and mechanism for balancing the support on said means, said mechanism including means to support additional weights to balance a selected weight of metal in the ladle.

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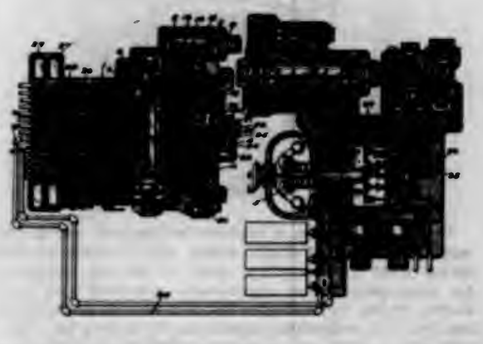
1,693,655. FLOOR CONSTRUCTION. EVERETT N. MURPHY, Chicago, Ill., assignor to Stevens Partition & Floor Deadener Co., Chicago, Ill., a Corporation of Illinois. Filed July 17, 1924. Serial No. 726,472. Renewed Mar. 26, 1928. 9 Claims. (Cl. 20—6.)



8. In a building floor construction, the combination with lower and upper floors and sound insulating means for supporting the upper floor on the lower floor, of means for anchoring said upper floor to said lower floor, said anchoring means being the only non-cushioned connection and including connected elements normally out of physical contact with each other, and means functioning to hold the connected elements of said anchoring means in proper alignment.

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1,693,656. TRAIN-CONTROL DEVICE. CLAUDE A. NELSON, Wilmerding, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1927. Serial No. 185,160. 7 Claims. (Cl. 303—18.)

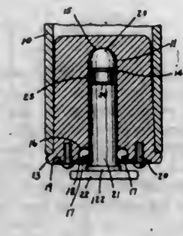


5. In a train control apparatus, the combination with means for effecting an application of the brakes in two stages, of a valve device operated by variations in fluid pressure for either rendering said means effective or ineffective to cause an application of the brakes in two stages, a speed governor controlled by the speed of the train, a valve operated by said governor when the speed of the train is above a predetermined speed limit for venting fluid from said valve device and when the speed is below a predetermined speed limit for preventing the venting of fluid from said valve device, and means operated when the brakes are applied for supplying fluid under pressure to said valve device.



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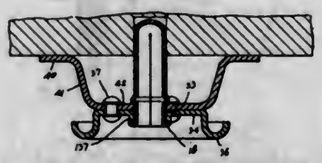
1,693,657. BALL-BEARING SOCKET AND FRICTION BAND STEM. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed May 2, 1925. Serial No. 27,415. 5 Claims. (Cl. 16—21.)



1. A caster and socket for legs including a leg supporting body adapted for relatively permanent mounting upon a leg and having a cylindrical opening therein, a lateral series of anti-friction elements coaxial with said opening, an apertured retainer for said anti-friction elements secured to the body, a caster including a cylindrical stem receivable by the retainer aperture and body opening and laterally engageable by the anti-friction elements and detachably associated with the body, and an annular resilient member carried by the stem and frictionally and peripherally engaging the adjacent wall for retaining the stem in the opening but permitting forcible detachment.

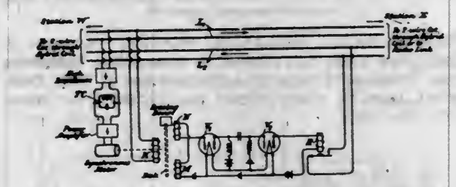
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1,693,658. COMBINATION PLATE-CASTER SOCKET AND SLIDE. WILLIAM H. NOELTING, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Mar. 14, 1927. Serial No. 175,206. 5 Claims. (Cl. 16—42.)



1. In a caster socket, the combination of a load sustaining plate portion, a slide portion rigidly connected thereto and supported by the plate portion for supporting a load, and a socket tube for detachably receiving a caster stem and having a pair of spaced flanges adjacent its lower end, said slide portion being apertured for tube reception and clampingly mounted thereon between said flanges for tube support.

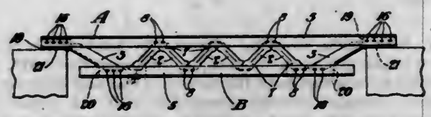
1,693,659. ECHO SUPPRESSOR. HARRY NYQUIST, Millburn, and KENNETH W. PFLEGER, Arlington, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 11, 1927. Serial No. 225,570. 7 Claims. (Cl. 178—44.)



3. In association with two telephone lines adapted for transmission in opposite directions, controlling means responsive to currents in one of said lines, switching means controlled thereby for disabling the opposite line, and means for balancing out in the input of said controlling means waves of a given frequency or its harmonics.

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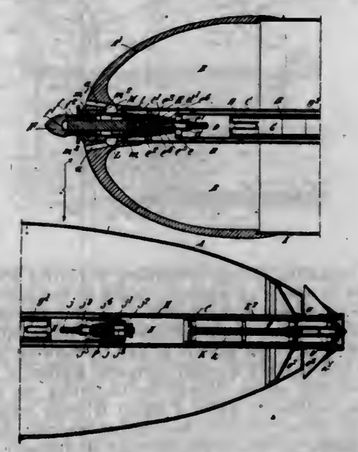
1,693,660. TRUSS. NORMAN B. OBBARD, Pittsburgh, Pa. Filed Dec. 12, 1927. Serial No. 239,421. 8 Claims. (Cl. 189—37.)



1. A truss structure composed of top and bottom chord members, each of said chord members being composed of a pair of rolled angle shapes arranged in spaced relation back to back, a plurality of diagonal lacing members connecting said upper and lower chord members, said lacing members having their ends projecting into the space between the rolled shapes forming said chord members, said shapes being provided with spaced apertures in their backs, and integral tongues on said lacing members adapted to project through said apertures to lock said chord members and lacing members together.

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1,693,661. PERCUSSION AND HYDROSTATIC FUSE. AMOS OGDEN, Barrow-in-Furness, England, assignor to Vickers Limited, Westminster, England, a British Company. Filed July 7, 1926, Serial No. 120,924, and in Great Britain Nov. 26, 1925. 16 Claims. (Cl. 102—2.)

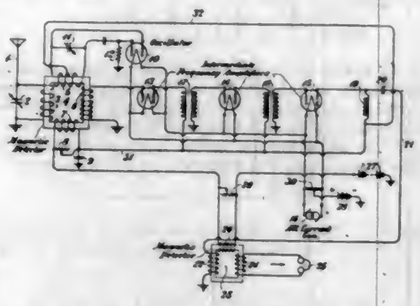


1. In a bomb, impact firing mechanism adapted to be fired on striking the obstacle, means whereby the bomb is

prevented from exploding on striking a solid obstacle offering a relatively small resistance, which means are rendered inoperative upon such obstacle being struck, and means whereby the bomb is then exploded upon meeting a further obstacle.

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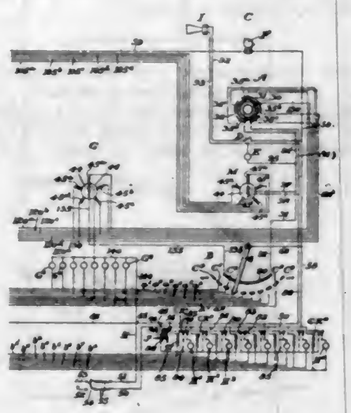
1,693,662. RADIO SIGNALING SYSTEM. RUSSELL S. OHL, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed June 25, 1924. Serial No. 722,367. 9 Claims. (Cl. 250—20.)



1. In a radio receiving system, the combination with an antenna of a magnetic detector connected therewith, an amplifier connected with the output of the said detector, a second magnetic detector connected with the output of the said amplifier, and a signal receiving instrument connected with the said second detector.

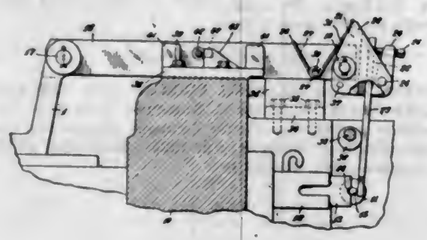
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1,693,663. SIGNALING SYSTEM AND MECHANISM. LLOYD E. ONEAL, East Orange, N. J., and SAMUEL N. MEAD, Jr., Brooklyn, N. Y., assignors to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 13, 1923. Serial No. 674,490. 3 Claims. (Cl. 177—353.)



1. A signaling system comprising a control station, a plurality of operating stations, means at the control station for selectively connecting the operating stations with the control station, means for selectively transmitting different definite visual signals to and fro between the control station and the selected operating station, a general signal station, means thereat for indicating the selected operating station to which a signal is being transmitted from the control station, and means whereby the indicating means is selectively operated in response to the selecting operation of the central station selective connecting means.

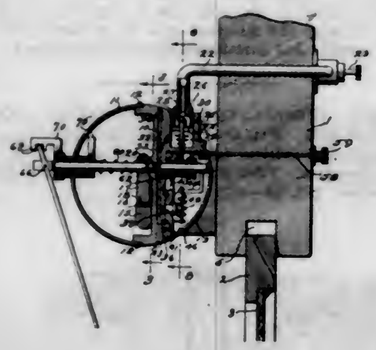
1,693,664. TRANSFER MECHANISM FOR UPSETTING MACHINES. CLIFFORD O. PETITJEAN, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 7, 1926. Serial No. 107,383. 8 Claims. (Cl. 10—25.)



1. In mechanism of the character described; a carrier bar pivotally connected with a reciprocating part; a finger having a yielding connection with the bar; means for rocking the bar upon its pivot mounting during its movement in one direction; and means associated with the first named means for varying the timing of the rocking movement of the carrier bar to permit the finger to pass over the blank after its delivery to the operating tools.

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1,693,665. WINDSHIELD CLEANER. JOHN X. PHILLIPS, Jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Original application filed June 30, 1923. Serial No. 648,818. Divided and this application filed Aug. 5, 1925. Serial No. 48,419. 18 Claims. (Cl. 15—253.)



1. In a windshield cleaner, a motor, a cleaner arm connected to said motor to be operated thereby, said motor embodying means for defining a normal stroke to said cleaner arm short of the full extent of movement to which said motor is capable of moving said arm, means for moving said cleaner arm outwardly from wiping contact with the windshield glass when the motor moves said cleaner arm beyond its normal stroke, and a manually operated means for rendering said first means inoperative whereby the motor may move the cleaner arm beyond its normal stroke.

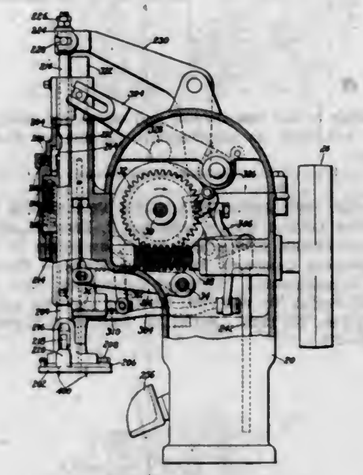


1,693,666. FINELY-DIVIDED PHENOLPHTHALEIN AND PROCESS OF MAKING SAME. EARL B. PUTT, New York, N. Y. Filed May 11, 1926. Serial No. 108,418. 10 Claims. (Cl. 260—65.))

1. A finely divided phenolphthalein made up of unground particles less than 10 microns in diameter.

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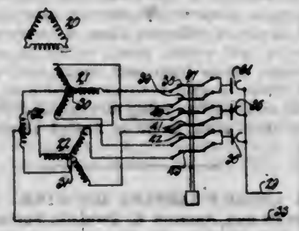
1,693,667. MACHINE FOR OPERATING ON SHOES. ARTHUR F. PYM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 3, 1921. Serial No. 474,701. 49 Claims. (Cl. 1—19.)



1. A machine for operating on shoes comprising, in combination, means for smoothing the lining against the inside counter portion of a shoe and placing a shank piece in the shoe over the margin of the lining, and means to secure the shank piece in place.

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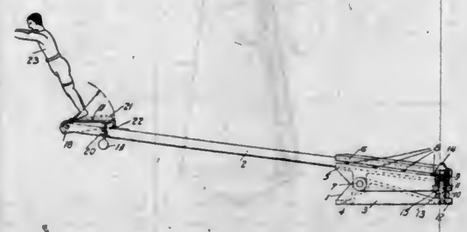
1,693,668. RECTIFICATION OF ALTERNATING CURRENT. ERNEST YEOMAN ROBINSON, Lymm, England, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 23, 1925, Serial No. 38,959, and in Great Britain June 24, 1924. 6 Claims. (Cl. 175—363.)



1. A polyphase alternating current rectifying system employing asymmetrically conducting devices including a commutator for disconnecting each one of said devices from its corresponding phase during the period of the alternating current cycle when it is non-conducting as regards said phase and for reconnecting it to another phase during said non-conducting period.

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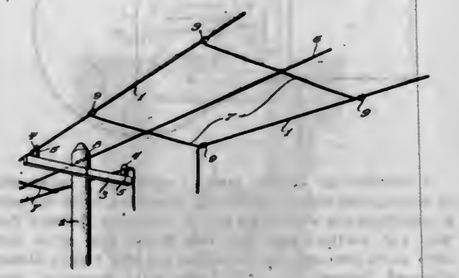
1,693,669. DIVING APPARATUS FOR SWIMMING POOLS. GABRIEL E. ROHMER, New York, N. Y. Filed Feb. 5, 1926. Serial No. 86,360. 8 Claims. (Cl. 272—66.)



1. A diving apparatus comprising a base, a board pivoted intermediate its ends to said base, anchoring means holding the board to the base at a point opposite the diving end and cushioning means at said anchored end.

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1,693,670. ELECTRIC-WIRE SUPPORT. CARMELO SALESAS, Guantanamo, Cuba. Filed Feb. 15, 1926. Serial No. 88,400. 1 Claim. (Cl. 173—251.)



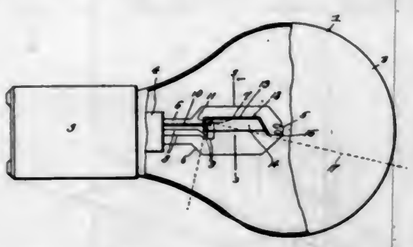
A support including a standard, a cross arm carried by said standard, and insulators carried by and projecting from the cross arm at opposite sides of the standard, line conductor wires spaced transversely from each other and connected with said insulators, a dead supporting wire extending between said conductor wires in spaced parallel relation thereto and supported from said standard above said cross arm, opposed insulators carried by said conductor wires and spaced longitudinally thereof, and cross wires extending between said conductor wires with their intermediate portions secured to the supporting wire and their ends secured about the insulators carried by the conductor wires.

1,693,671. PORTABLE LIQUID FIRE-EXTINGUISHER. KARL SCHMIDT, Neuroppin, Germany. Filed July 8, 1927, Serial No. 204,313, and in Germany Apr. 24, 1926. 2 Claims. (Cl. 299—95.)



1. In a portable liquid fire-extinguisher having pipes adapted to put the inner air space in communication with the air space of the discharge pipe and leading into a chamber located near the bottom of said extinguisher, pipes of larger diameter joined to said chamber and of smaller diameter opening into said air spaces.

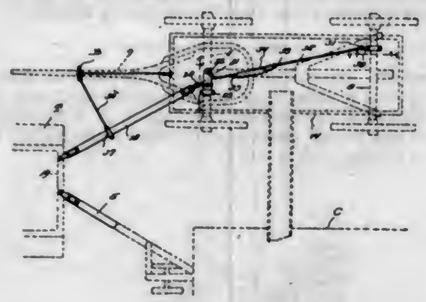
1,693,672. ELECTRIC LIGHT. CHARLES J. SCHROEDER, Minonk, Ill. Filed Nov. 22, 1926. Serial No. 150,061. 1 Claim. (Cl. 176—26.)



A reflector for electric lamps comprising a substantially rectangular shaped relatively elongated cover including a longitudinally extending top, a forwardly inclined front wall and vertical rear and side walls, said cover being open at its side opposite from said top and a light filament disposed therewithin, said front wall extending downwardly beyond the edges of the side walls and constituting a light deflector for the filament whereby to direct the rays thereof at an inclined angle from the horizontal plane thereof.

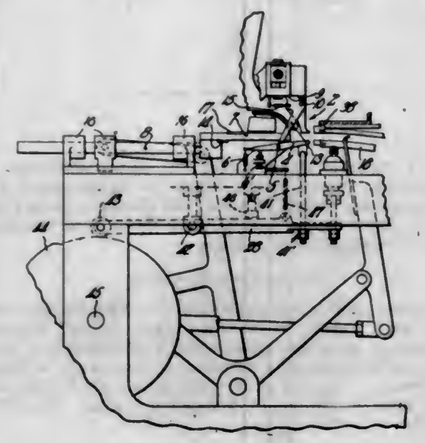
1,693,673. WAGON-TRACTOR HITCH. JUST H. SETHER, Jackson, Minn. Filed Dec. 17, 1927. Serial No. 240,871. 2 Claims. (Cl. 280—33.44.)

1. A hitch structure of the class described comprising a bracket including means whereby it may be attached to the rear axle of a wagon at one side thereof, a second bracket including means whereby it may be attached to the other side of the front axle of the wagon, a sheave in the second bracket, a draw rod engaged with the first bracket and projecting forwardly, a chain trained over the sheave and engaged with the draw bar, means for adjusting the length of the chain, a draw bar engaged with the chain and adapted to be engaged with the draw bar of a tractor, a brace rod engaged with the draw bar first mentioned and



extending to the side thereof and means for engaging the brace rod with an intermediate portion of the wagon tongue.

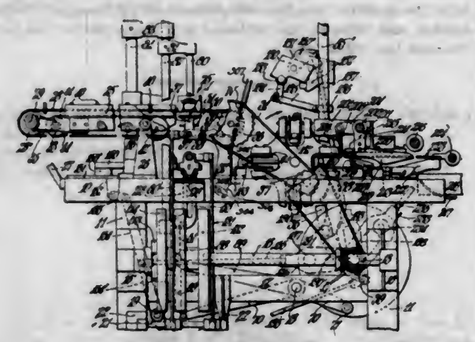
1,693,674. WRAPPING MACHINE FOR STICK CANDY. ELMER LOVELL SMITH, ARTHUR E. PHELON, and PAUL LANGHAMMER, Springfield, Mass., assignors to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Original application filed Sept. 4, 1923, Serial No. 660,798. Divided and this application filed Feb. 13, 1926. Serial No. 88,021. 6 Claims. (Cl. 226—2.)



1. In a machine of the class described comprising in combination, a downwardly directed spout for delivering sticks of candy of different sizes, a receiver therebelow for receiving said sticks, means acting in said spout to release single sticks from said spout, and a pusher for removing sticks on said receiver operable to actuate said means, the said receiver being movable and arranged to be depressed by a stick as it is moved thereover by the pusher.

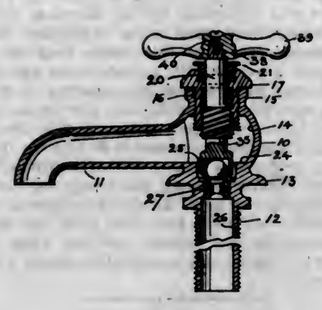
1,693,675. SOAP-WRAPPING MACHINE. ELMER LOVELL SMITH and ARTHUR E. PHELON, Springfield, Mass., assignors to Package Machinery Company, Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 4, 1923. Serial No. 660,719. 23 Claims. (C. 93—2.)

1. In a wrapping machine in combination, means for folding a cardboard blank into a box-like carton about an article of different shape than said box like carton comprising, a folding die, means for positioning said blank and article in superposed relation above said die, co-



operating upper and lower plungers for carrying the blank and article through die, the upper plunger having depending portions for engaging said blank, and a spring pressed plate for engaging said article.

1,693,676. BALL-JOINT FAUCET. MICHAEL B. SPINELLE, Chicago, Ill., assignor of one-half to Joseph F. Carson, Chicago, Ill. Filed Jan. 13, 1928. Serial No. 246,513. 2 Claims. (Cl. 251—159.)



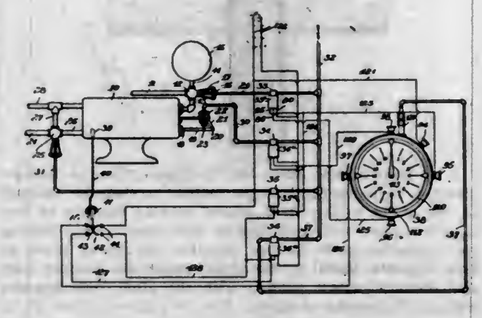
1. In a valve construction the combination with a housing having a valve seat; of a cap threaded in the housing, a two-piece valve member comprising a stem and a ball loosely secured therein, said stem being axially movable in the cap to seat the valve ball, a packing box in the cap, a packing element and a gland adapted to press the packing element around the valve stem; said valve seat including an annular member threaded in the housing and provided with a cross-shaped aperture forming a fluid passage therethrough.

1,693,677. PROCESS-CONTROL SYSTEM. LEWIS B. SWIFT, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Jan. 31, 1924. Serial No. 689,828. 6 Claims. (Cl. 62—2.)

1. In apparatus of the character described, the combination with a treater vessel having an inlet, an outlet and a conduit for passing a fluid medium through the vessel to effect a heat exchange with the contents thereof, of separate means for controlling the flow of material through the inlet, the outlet and the said conduit respectively, means for automatically actuating the said con-



trolling means to effect the admission, the treatment and the discharge of the material in orderly sequence, including motor mechanism, means operative at a predetermined

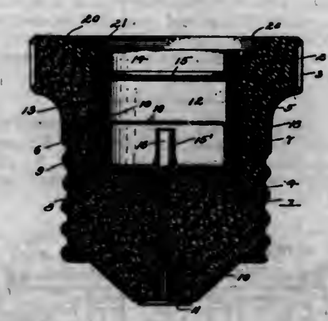


point of the cycle of operation to make the motor means ineffective and means responsive to changes of conditions in the treater vessel for making the motor means effective.

1,693,678. DRAINPIPE-CLEANING COMPOSITION. EDWARD A. TAYLOR, Cleveland, Ohio, assignor to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 27, 1925. Serial No. 26,294. 3 Claims. (Cl. 87—5.)

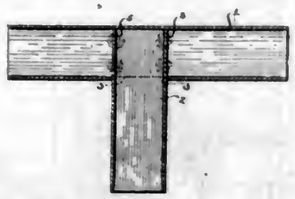
2. A drain-pipe cleaning composition comprising caustic alkali, finely divided aluminum and goulac.

1,693,679. FUSE PLUG. MERRILL H. TERRY, Columbus, Ohio. Filed Oct. 21, 1926. Serial No. 143,255. 4 Claims. (Cl. 200—130.)



1. A fuse plug comprising a body having one end thereof formed with an axially disposed socket, spaced resilient contact members mounted in connection with said body and extending in the inner part of said socket, a removable shell formed to occupy said socket, a fusible contact strip carried by inner part of said shell and adapted for frictional engagement with said contact members, a substantially transparent closure carried by outer end of said shell and guide means for retaining said shell in a predetermined position within said socket.

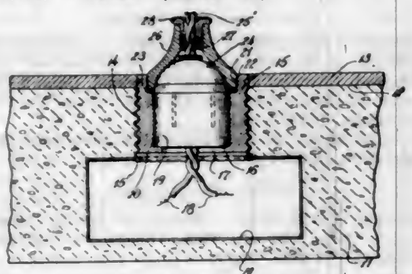
1,693,680. JOINT FOR TUBULAR STRUCTURES. MARTIN THUM, Rochester, N. Y. Filed Apr. 11, 1927. Serial No. 182,873. 2 Claims. (Cl. 287—54.)



1. A joint of the class described comprising a tubular member of rectangular cross section having an opening in one of its walls, and a second tubular member of rectangular cross section fitting in said opening and having two opposite walls thereof abutting the inner faces of two opposite walls of the first mentioned member and spot welded thereto in line with the other two opposite walls of the second member.

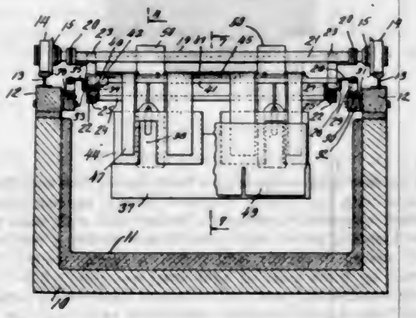
1,693,681. [WITHDRAWN.]

1,693,682. UNDER-FLOOR DUCT SYSTEM. HERVEY S. WALKER, Ardmore, Pa. Filed Aug. 26, 1926. Serial No. 131,574. 7 Claims. (Cl. 247—3.)



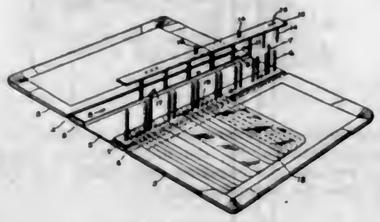
1. In an under floor wiring system, the combination of ducts within the floor below the surface thereof, outlet fittings mounted in the duct wall and extending to the floor surface, similar wiring receptacles mounted in certain of the outlet fittings and connected to electric service conductors in the duct, and a plug connectible to a device requiring current and adapted to be received interchangeably in the several receptacles.

1,693,683. APPARATUS FOR ELECTRODEPOSITION. ELMER M. WANAMAKER, New York, N. Y., assignor to Anaconda Sales Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 19, 1926. Serial No. 130,136. 14 Claims. (Cl. 204—5.)



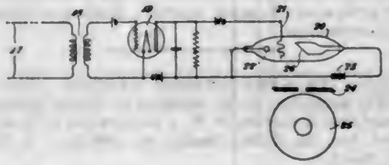
1. In apparatus for eletrodeposition, the combination of an electrolytic cell, a positive and a negative bus bar disposed adjacent the cell, a frame movable along the cell and carrying a plurality of anodes and cathodes, a pair of shoes carried by the frame and contacting with the positive and negative bus bars respectively, and electrical connections between the anodes and the shoe contacting with the positive bus bar maintained by the weight of the anodes, and between the cathodes and the negative bus bar through the other shoe.

1,693,684. LOOSE-LEAF BINDER. WILLIAM F. WARNER, Jr., Rochester, N. Y., assignor to Henry Conolly Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Nov. 29, 1926. Serial No. 151,282. 3 Claims. (Cl. 129—8.)



1. A loose leaf binder comprising two binding members, one provided with a locking device and the other having a plurality of impaling projections arranged in groups, at least two of said projections having shoulders thereon for engagement with the locking means of the first mentioned binding member, leaves of less length than the binding members, each provided with a plurality of equi-distantly spaced openings along one margin adapted to fit on the impaling projections in overlapping relation so that one may project beyond the other, and a transfer member having impaling projections arranged to lie between the groups of impaling projections on the second mentioned binding member, the distance between the groups on the binding member being greater than the distance between adjacent members in any one group and being such that the impaling projections on the transfer member, while lying in openings of the leaves, may be moved to occupy a plurality of positions.

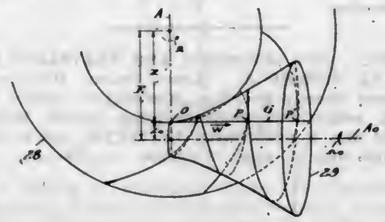
1,693,685. METHOD AND APPARATUS FOR TRANSMISSION OF PICTURES. ALLAN WEAVER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 15, 1923. Serial No. 681,002. 10 Claims. (Cl. 178—7.)



5. An X-ray tube, a picture receiving film on which the X-rays fall, means to move the film, and means to modify the X-rays in accordance with a received picture transmitting modulated carrier current.



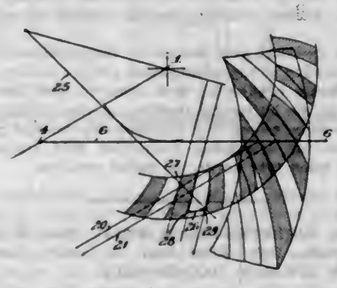
1,693,686. METHOD OF PRODUCING CURVED TOOTH GEARING. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Nov. 8, 1924. Serial No. 748,572. 29 Claims. (Cl. 90—4.)



1. The method of cutting a gear blank consisting in employing a cutter having a uniform pitch along a line in a plane offset from its axis and inclined to the projection of its axis in said plane, and in rotating said cutter in engagement with the blank.

29. The method of cutting a pair of gears which consists in cutting one member of the pair by rotating the hob in engagement with a continuously rotating gear blank while maintaining a fixed angular relation between the hob and blank axes, so that in finish cutting position the hob sweeps out the whole finished tooth surface of the blank, and in cutting the other member of the pair by rotating a hob in engagement with a continuously rotating gear blank while imparting a relative rolling motion between the hob and blank as of a gear rolling on the first gear.

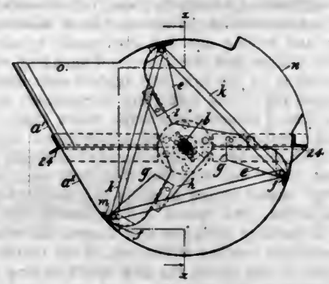
1,693,687. METHOD OF PRODUCING GEARS. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Dec. 30, 1924. Serial No. 758,861. 27 Claims. (Cl. 90—4.)



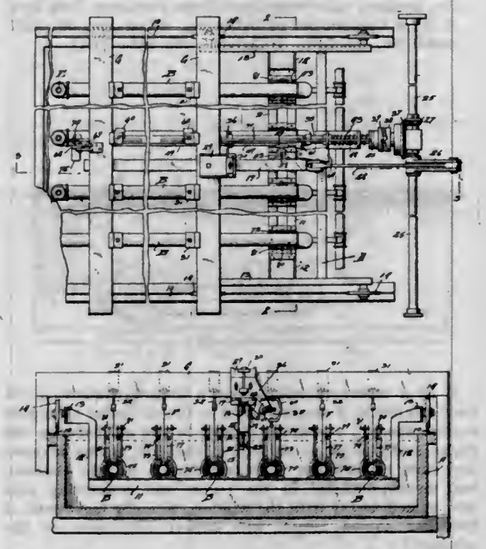
1. The method of cutting gears which consists in selecting a taper hob of changing lead, the sine of whose cone angle is in the same proportion to sine of the cone angle of the blanks as the number of its threads bears to the number of teeth on the gear to be cut and in rotating the hob and blank in timed relation while imparting an additional relative movement between the hob and blank about the apex of the latter.

1,693,688. MIXING MACHINE. LIONEL JAMES BAKER BLAKE, Bishops Stortford, England. Filed Sept. 24, 1926, Serial No. 137,579, and in Great Britain Nov. 7, 1925. 4 Claims. (Cl. 83—73.)

1. A mixing machine for concrete, tarmacadam and the like comprising a normally stationary mixing drum provided with charging and discharging orifices, a shaft on which said drum is mounted, a plurality of mixing scoops carried on said shaft within said drum and means for imparting a continuous rotation to said shaft whereby said scoops are successively elevated, the forward edges of said scoops extending practically the entire length of the interior of said drum and the rear edges thereof being of lesser length than said forward edges and situated away from said shaft, inclined ends connecting said forward and rear edges of said scoops, and means for tilting said drum to discharge the mixed material.



1,693,689. AUTOMATICALLY ACTUATED BRUSH FOR GRAINER PIPES. THORVALD C. COLBIORNSEN, Antonito, Colo. Filed Sept. 7, 1927. Serial No. 218,069. 18 Claims. (Cl. 159—37.)



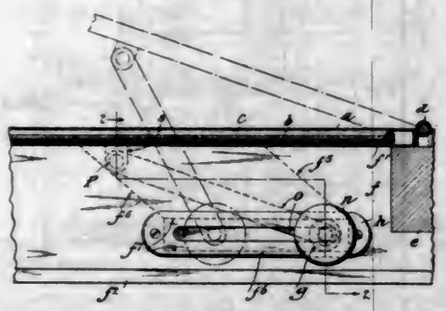
1. The combination with a pipe, of a cleaning means mounted upon the pipe and operating thereon, means for causing the cleaning means to reciprocate longitudinally of the pipe, the length of the reciprocation being relatively short and means to intermittently advance the cleaning means step by step along the pipe with respect to said reciprocating means for the full length of the pipe.

15. The combination with parallel steam pipes, and overhead transversely extending beams having hangers supporting the steam pipes, of means for cleaning the pipes comprising a longitudinally extending T-shaped rack bar mounted in guides operatively supported upon said beams, the depending web of the bar being provided with notches at intervals, a power driven crank shaft having a crank operatively connected to the bar to constantly reciprocate the bar, a carriage extending beneath the series of pipes, a plurality of pipe brushes mounted upon said carriage, each for engagement with a pipe, a column extending upward from the carriage and having a slot

receiving the depending web of the bar, a bolt mounted within the column and resiliently urged into engagement with the web of the bar, a longitudinally extending shaft having a longitudinally extending cam trip mounted thereon and extending radially therefrom, a lever mounted upon the column and having one end engageable by said strip as the shaft rotates and the other end engaging with the bolt, a movement of the cam trip against said lever causing the retraction of the bolt from engagement with the bar, a gear wheel mounted upon the crank shaft, a gear wheel loosely mounted upon the longitudinal shaft and having a clutch member, a clutch member slidingly mounted upon the shaft but rotating therewith and coacting with the first named clutch member and resiliently urged toward the latter, and means for retracting the second named clutch member from the first named clutch member when the carriage reaches either end of its travel at the opposite ends of the pipes, the cam shaft having a rotation approximately one-half the speed of rotation of the crank shaft and each clutch face having clutch teeth disposed in quartering relation, said retracting means including levers supported in the path of travel of said column, and a connecting rod engaging said levers and operatively connected to the slidable clutch member.

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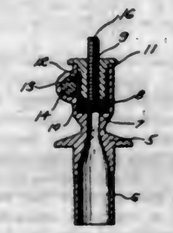
1,693,690. MOTOR-VEHICLE BUS-WINDOW-OPERATING MECHANISM. LEWIS L. CORCORAN, Allentown, Pa., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1927. Serial No. 187,740. 3 Claims. (Cl 268—118.)



1. In a motor vehicle having a hinged window, a sill for the window, a recess formed in the sill below the upper surface thereof, a channel formed in the sill between the recess and the upper surface of the sill, means to open and close the window slidably mounted in said channel, and means disposed in the recess and connecting said first named means with the window, whereby movement of the first named means will impart movement to the window.

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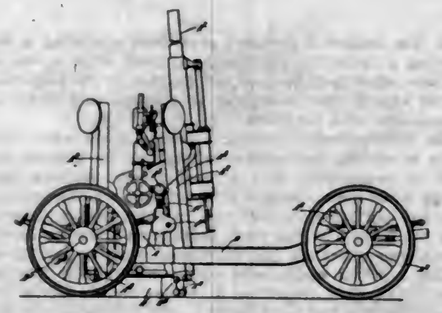
1,693,691. BALL COCK. LEO R. DAVIDSON and HENRY F. RAHL, Sturgis, Mich. Filed July 29, 1927. Serial No. 209,305. 2 Claims. (Cl. 137—104.)



1. A valve of the class described including a movable member, having a threaded bore, a threaded shank disposed within the bore and having a head carrying a washer, a body portion and a valve seat within the body portion against which the washer moves, said shank having a slot at its upper end to receive a screw driver for adjusting the threaded shank with respect to the movable member to adjust the valve and means for actuating said movable member.

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1,693,692. GUN MOUNTING AND TRAVELING CARRIAGE THEREFOR. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, London, England. Filed Aug. 9, 1927, Serial No. 211,735, and in Great Britain Aug. 31, 1926. 8 Claims. (Cl. 89—40.)

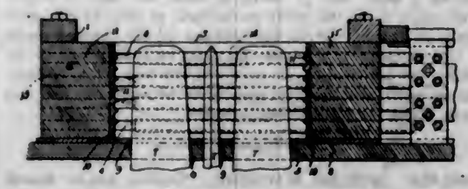


1. A gun mounting provided at approximately the centre of gravity of the mounting as a whole with means for engaging lifting means on a traveling carriage so that after the mounting has been lifted a small distance from the ground it can be angularly displaced about its approximate centre of gravity into the transporting position on the traveling carriage without further lifting or manipulation.

8. In a pedestal gun mounting, the combination of a base, a plurality of supporting arms pivoted thereto, means for detachably connecting said arms to said base when they are in the horizontal position, means which permits said arms to be raised to a substantially vertical position, and means for detachably connecting said arms to the mounting when they are in the raised position.

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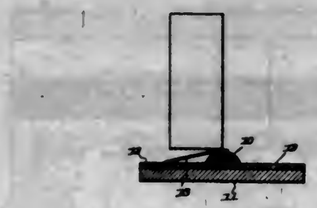
1,693,693. BUILDING-BLOCK MOLD. CARL J. DEXTER, La Fayette, Ind. Filed Sept. 21, 1927. Serial No. 220,988. 3 Claims. (Cl. 25—121.)



1. A mold for forming building blocks, comprising a bottom plate, spaced sides resting upon said plate, end plates adjustable toward and away from each other between the sides, said sides having grooves formed therein, ribs including bodies slidably fitted in the grooves and having heads projecting inwardly therefrom to provide mortar receiving grooves in the sides of a block.



1,693,694. METHOD OF WRAPPING CHEESE. CHARLES F. DOANE, Salem, Oreg. Filed June 10, 1927. Serial No. 197,823. 17 Claims. (Cl. 99—8.)

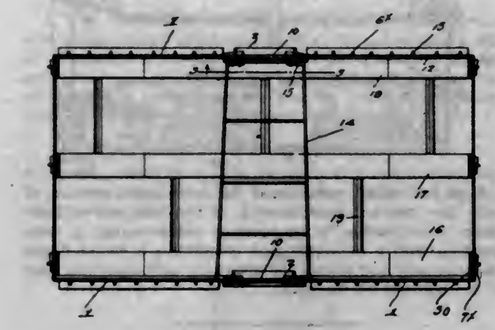


2. A method of packaging cheese which consists in progressively bringing successive portions of a protective covering or wrapper into contact with the surface of the cheese, and applying pressure and heat to said wrapper and cheese at the successively contacting portions thereof whereby air is expelled from between the wrapper and cheese and said wrapper and cheese cemented together.

15. A wrapped package of cheese having its ends entirely covered by separate pieces of wrapping material and a third piece of wrapping material applied directly to the remaining surfaces of the cheese, the contacting portions of said cheese and wrapping material being free of air pockets.

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1,693,695. KNOCKDOWN TANK. ZACHARY T. ELLIS, Duncan, Okla. Filed Feb. 14, 1927. Serial No. 168,111. 6 Claims. (Cl. 220—5.)

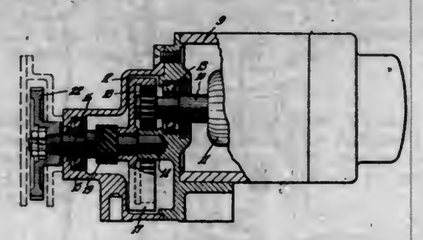


1. A knock-down device comprising a member having a stem and a channeled portion at one side of the stem, a sheet metal section having a resilient portion bent upon its major portion and tending to swing away from said major portion and disposed in said channeled portion of the member, and means cooperating with the stem for holding said resilient bent portion of the sheet section under tension in the channeled portion of said member, whereby the resiliency of the bent portion is utilized to maintain said holding means under pressure against the stem of the member.

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1,693,696. GENERATOR ASSEMBLY FOR MOTORCYCLE ENGINES. CHARLES B. FRANKLIN, Springfield, Mass., assignor to Indian Motorcycle Company, a Corporation of Massachusetts. Filed Mar. 6, 1926. Serial No. 92,825. 1 Claim. (Cl. 290—1.)

In an electrical generating and distributing system for internal combustion engines of the type wherein a train of gearing is provided to enable said engine shaft to rotate a driven shaft at a slower speed than said engine shaft, the combination therewith of a generator assembly comprising a housing having contained therein an armature and its shaft, said slow speed driven shaft for operation by said engine shaft, and step-up gearing between said driven shaft and said armature shaft to rotate the latter at higher speed than said engine shaft, said step-up gearing comprising a relatively large internal gear on said driven shaft and a relatively small intermeshing pinion on said armature shaft, said driven shaft extending exteriorly of said housing and having fixed thereto a gear for meshing with said train of gearing from said engine shaft, a pinion fixed on said driven shaft adjacent said internal gear within said housing and a distributor shaft extending to within said housing and having a gear for operation by said pinion.



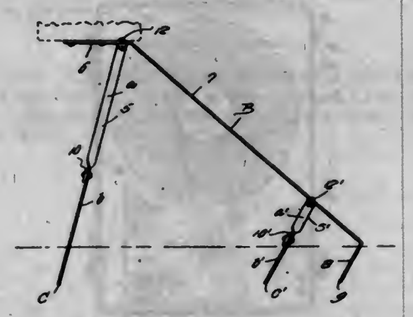
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1,693,697. COMPOSITION OF MATTER FOR USE IN HONING RAZORS AND OTHER KNIVES. WILHELM HAFNER, Saarbrucken, Germany. Filed Oct. 12, 1927, Serial No. 225,850, and in Germany Oct. 14, 1926. 4 Claims. (Cl. 51—280.)

1. A composition of matter for honing, consisting of a mixture containing glue, glycerine, and powdered emery and tripoli.

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1,693,698. MAIL-BOX POST. SAMUEL B. HALE, Buckley, Ill. Filed Oct. 18, 1927. Serial No. 226,955. 3 Claims. (Cl. 232—39.)



1. A mail box post structure of the class described comprising a front frame, a smaller rear frame, said frames being of an inverted V-shaped formation, a connecting member secured to the bights of said frames and inclining downwardly from the larger frame to the smaller frame.

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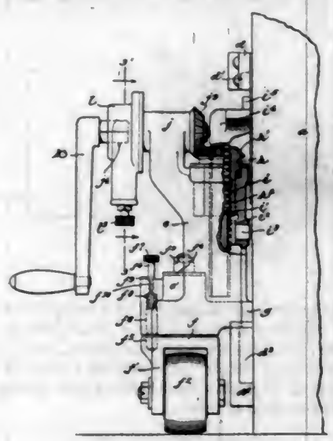
1,693,699. [WITHDRAWN.]

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1,693,700. CONTAINER BOGIE. GEORGE MCCALL, Woodside, and JOSIAH E. REID, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1926. Serial No. 156,218. 9 Claims. (Cl. 254—7.)

1. In an attachment for unit containers, a housing, roller means mounted at the lower extremity thereof to

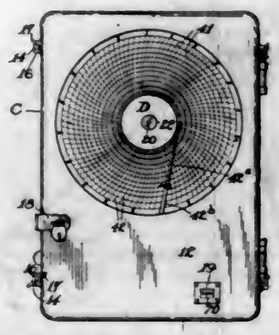
facilitate movement over surfaces, a lifting member mounted in the housing, means on the housing to engage cooperating means on the container to prevent substantial



lateral movements thereof in any direction with respect to the lifting member, means on the lifting member to engage cooperating means on the container to support it, and means for lifting said lifting member.

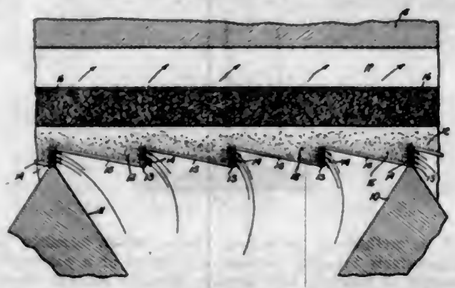
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1,693,701. RECORDING MEANS. HERBERT L. MERRICK, Passaic, N. J. Filed Jan. 10, 1925. Serial No. 1,504. 6 Claims. (Cl. 234—1.)



1. In chart recording means, a rotatable dial; means to intermittently rotate said dial; a scriber engaging with the dial to inscribe a line thereon to extend in the direction of travel of the dial during the rotation of the dial; a rotatable cam arranged with a successively stepped and progressively increased throw; a clock work operative to rotate said cam at a constant speed independent of the dial rotating means; a lever to one arm of which lever the scriber is connected and the other arm arranged with a cam follower to co-operate with the cam, and said lever normally urged in a direction to position the cam follower in engagement with the cam and the scriber toward the axis of the dial, and a clock movement upon the arbor of the hour hand on which the cam is mounted and adapted to actuate the cam to move the lever a predetermined distance at successive periods of time and the scriber laterally of the dial for the purpose specified.

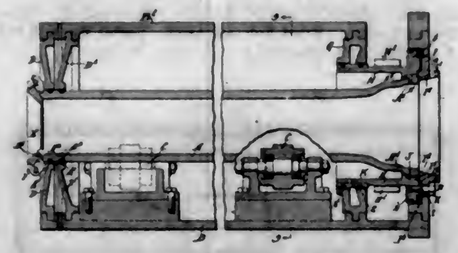
1,693,702. FURNACE FOR TREATING ORES. FRANCIS M. SIMONDS, New York, N. Y. Filed Oct. 26, 1926. Serial No. 144,385. 5 Claims. (Cl. 266—21.)



1. A furnace having a hearth formed in sections each of which comprises a floor and a perforate confining wall at one end thereof forming an angle with said floor.

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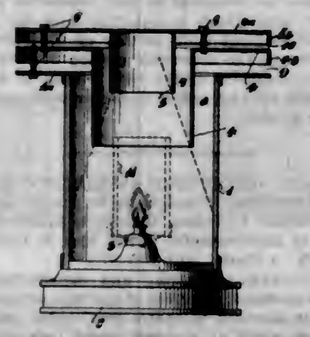
1,693,703. MOLD FOR CENTRIFUGAL PIPE CASTING. JOHN H. URBIG, Beverly, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 6, 1926. Serial No. 146,612. 9 Claims. (Cl. 22—65.)



1. A bell ended metal mold for centrifugal casting of pipe, the external conformation of the bell end substantially corresponding to its internal conformation in combination with a separable part comprising a radial flange and core seat and means for attaching said separable part to the bell end of the mold.

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1,693,704. WINDPROOF LAMP. DEVEREUX JOHN GREGORY WATKINS, Lincoln, England. Filed July 26, 1927, Serial No. 208,527, and in Great Britain Aug. 31, 1926. 4 Claims. (Cl. 240—11.)

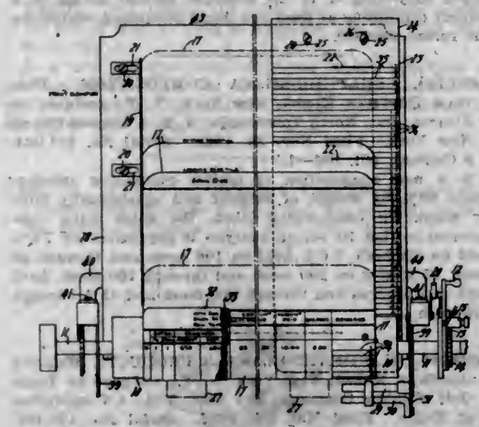


4. A lamp comprising an outer cylindrical casing with open top and closed base, a plurality of open-based cylinders assembled concentrically within the upper part of said outer casing, said cylinders being of proportionately decreasing diameters and lengths, a burner within the outer casing below the inner cylinders, outwardly projecting flanges at the top of the outer casing and inner cylinders, said flanges being spaced one over the other and means for enabling the spacing of said flanges to be accurately adjusted.



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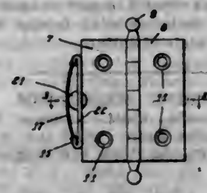
1,693,705. TYPEWRITING MACHINE. HARRISON O. BLAISDELL, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 18, 1925. Serial No. 69,761. 15 Claims. (Cl. 197—128.)



1. The combination with a typewriting machine, having a revoluble platen and a rear table at the introductory side of the platen for a work-sheet, of a plate mounted on the rear table and provided with corrugations line-space distances apart for gaging the trailing edge of the work-sheet when inserted around the platen.

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1,693,706. SPRING LOCK. FRED L. BORCHERT, Rockford, Ill. Filed May 17, 1926. Serial No. 109,581. 3 Claims. (Cl. 16—144.)



1. A spring latch comprising a part shaped to fit against a hinge-leaf and to be retained in position by the fastening means therefor, and further shaped to carry a spring-pressed ball adapted to snap over an edge on the other hinge-leaf.

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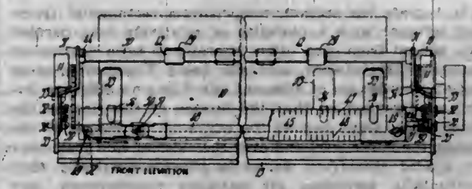
1,693,707. CLIPPER. ANTON DISHMAKER, Kewaunee, Wis. Filed Aug. 11, 1927. Serial No. 212,185. 1 Claim. (Cl. 30—11.)



A hedge clipper of the class described, comprising a channel bar having an elongated stationary blade at its outer end and spaced ears at its inner end, a pair of reciprocating members mounted in said channel bar, said members having cutting toothed blades extending laterally beyond the adjacent edges of said channel bar, means for slidably securing said members to said channel bar, a transversely disposed drive shaft mounted in the ears of said channel bar, means connecting the inner ends of said pitmen to apposite sides of said members to permit the use of both sides of the cutting blades, and means eccentrically connecting the inner ends of said pitmen to said drive shaft at diametrically opposite points whereby simultaneous reciprocating movement in opposite directions is imparted to the cutting blades to maintain them in balanced relation relative to each other.

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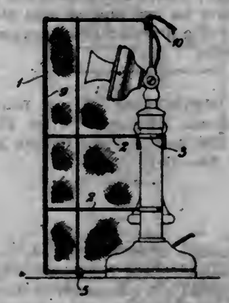
1,693,708. TYPEWRITING MACHINE. WILLIAM A. DONSON, Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 24, 1925. Serial No. 64,540. 14 Claims. (Cl. 197—138.)



1. The combination with a typewriting machine having a platen revolubly mounted in end plates of a platen-frame, of feed-rolls mounted upon a shaft running parallel with the platen axis, side arms supporting said shaft and rockably mounted on the platen-frame so as to be operable to move said rolls into or out of engagement with the platen, and means for maintaining said rolls in the operative or inoperative position, including a double-acting spring attached at one end to one of said arms, and means for attaching the other end of said spring to the platen-frame, said attaching means having provision for increasing the effective moment upon said supporting arm of the force of the spring beyond the amount directly due to the rocking of the supporting arm.

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1,693,709. SCREEN FOR TELEPHONES OR THE LIKE. ERNEST LENNOX DUNAND, London, England. Filed Dec. 8, 1926, Serial No. 153,242, and in Great Britain June 18, 1926. 1 Claim. (Cl. 45—105.)

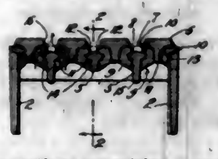


A screen for telephone instruments and other pedestal articles, comprising a fabric covered frame provided with a pair of horizontal parallel spacing arms of equal length disposed one above the other and both extending from a single vertical central frame member so as to be radial with respect to the pedestal, an integral U-shaped clip formed on the inner end of each of said arms for movably engaging the pedestal in such a manner as not to take the weight of the screen, and a horizontal member secured to the lower end of said central frame member and

extending in concentric relation to said pedestal, said horizontal member carrying a pair of rollers disposed one at each side of the aforesaid vertical central frame member so that the upper parts of the rollers are concealed by the screen.

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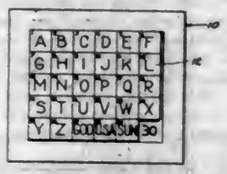
1,693,710. GRATE BAR. HENRY K. EILERS, Plainfield, N. J., assignor to Pyramid Iron Products Corporation, a Corporation of New York. Filed Mar. 16, 1927. Serial No. 175,767. 8 Claims. (Cl. 126—163.)



1. A grate bar section, comprising a rectangular frame cast integral with a plurality of relatively long parallel ribs, spaced from each other laterally to form continuous channels therebetween, said ribs being T-shaped in cross section, the flanges of adjacent ribs being on different levels and arranged so that the flanges of the ribs on the upper level extend beyond the edges of the flanges of the ribs on the lower level and over the sides of said frame but are spaced therefrom, so as to provide vertically then horizontally extending air passages therebetween, and lugs on the sides of said frame for supporting the individual grate bar section.

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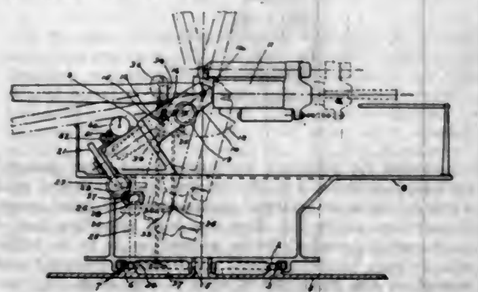
1,693,711. PUZZLE. EMIL FRIEDERICH LEWIS FRITZ, Chicago, Ill. Filed July 18, 1927. Serial No. 206,442. 4 Claims. (Cl. 273—132.)




1. A device of the class described, comprising a rectangular container having the inner surface thereof marked off in squares; a plurality of cubical blocks, each of a size adapted to cover one of said squares; there being less blocks than squares for permitting relative sliding movement of said blocks; letters and numbers in said squares; letters and numbers on one face of said blocks and corresponding letters of a plurality of languages on the other faces of said blocks.

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1,693,712. GUN MOUNTING. JAMES BLACKLOCK HENDERSON, Blackheath, England. Filed Feb. 12, 1927, Serial No. 167,833, and in Great Britain Mar. 22, 1926. 9 Claims. (Cl. 89—37.)



1. The combination with a device mounted to be variously directed, of a support for the device including trunnions on two axes, and simultaneously operable interconnections adapted to be actuated to effect a displacement of said device about an axis to which the two trunnion axes are inclined.

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1,693,713. PURIFICATION OF CRUDE ANTHRACENE. ALPHONS O. JAEGER, Crafton, Pa., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Jan. 16, 1928. Serial No. 247,260. 14 Claims. (Cl. 260—168.)

1. A method of purifying impure anthracene, which comprises subjecting it to the selective solvent action of a solvent containing at least one liquid compound containing the furane nucleus.

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1,693,714. SULPHUR-SILICA COMPOSITION. WILLIAM HOFFMAN KOBBÉ, New York, N. Y., assignor to Fleuron, Inc., North Tonawanda, N. Y., a Corporation of New York. Filed Nov. 26, 1926. Serial No. 151,024. 9 Claims. (Cl. 106—1.)

9. A new composition of matter comprising substantially 50% by weight of sulphur and substantially 50% by weight of comminuted silica, the silica being comminuted so that its screen analysis is approximately 7.2% held on 80 mesh, 5.6% held on 100 mesh and through 80 mesh, 25% held on 200 mesh and through 100 mesh, 19% held on 320 mesh and through 200 mesh and 43% through 320 mesh.

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1,693,715. HARDENED-PLASTER PRODUCT. WILLIAM HOFFMAN KOBBÉ, New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Mar. 14, 1927. Serial No. 175,431. 4 Claims. (Cl. 154—45.9.)

1. An article of manufacture comprising dehydrated set gypsum impregnated either wholly or in part with sulfur.

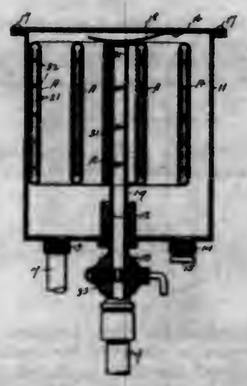
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1,693,716. PLASTER BOARD AND THE LIKE. WILLIAM HOFFMAN KOBBÉ, New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex., a Corporation of Texas. Filed Mar. 14, 1927. Serial No. 175,432. 2 Claims. (Cl. 154—45.9.)

1. A composition board comprising an interior including hardened plaster covered in part at least by fibrous material, the fibrous material being bonded to the interior of the board by crystals of sulfur.

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1,693,717. FILTERING MECHANISM. CHARLES F. LIENESCH, Monrovia, Calif., assignor to Charles L. Stokes, Los Angeles, Calif. Filed Oct. 6, 1926. Serial No. 139,887. 5 Claims. (Cl. 210—165.)



1. A filtering mechanism, comprising a casing having an inlet and an outlet port, a pipe in said outlet port extending upward in said casing and provided with a plurality of openings in one side only thereof, a flexible reticulated guard member bent to form a loop and having its ends secured to said pipe at each side of said openings, filter material in the form of a bag for enclosing said guard member, and a spring clip for securing the ends of said material to said pipe.



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1,693,718. WATERPROOFING COMPOUND AND PROCESS OF MAKING THE SAME. EDWIN C. E. LORD, Washington, D. C. Filed Sept. 1, 1928. Serial No. 303,617. 3 Claims. (Cl. 134—15.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

1. A new waterproofing compound which comprises a mixture of water gas tar and paraffin wax dissolved in coal tar naphtha, the mixture in liquid form and of a specific gravity of approximately 1.02.

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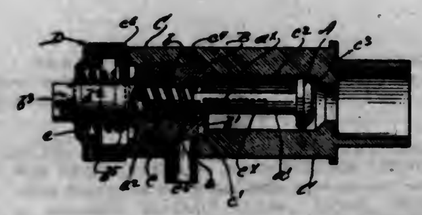
1,693,719. FLUID-MEASURING FAUCET. HARRY C. LYONS, Mount Vernon, N. Y. Filed May 4, 1925. Serial No. 27,681. 5 Claims. (Cl. 221—106.)



1. A measuring faucet comprising a casing provided with inlet and discharge ports, a shell rotatably positioned in said casing, a partition core removably positioned in and dividing said shell into two measuring compartments arranged and adapted to be brought alternately and simultaneously in communication with said inlet and discharge ports by a rotative movement of said shell and core, interacting means on said shell and core connecting the same together for simultaneous rotative movement while permitting said core to be removed independently from said shell, and means for imparting a rotative movement to said core and shell.

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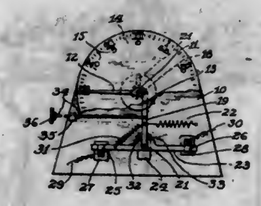
1,693,720. MEASURING FAUCET. HARRY C. LYONS, Mount Vernon, N. Y. Filed Dec. 23, 1924. Serial No. 757,609. 5 Claims. (Cl. 221—114.)



1. In a device of the character described, two valves, seats for said valves, one of said valves being rotatable, means for holding the other of said valves against rotation, screw-thread means directly connecting said valves and adapted when said rotatable valve is rotated to cause said valves to be successively and alternately moved axially.

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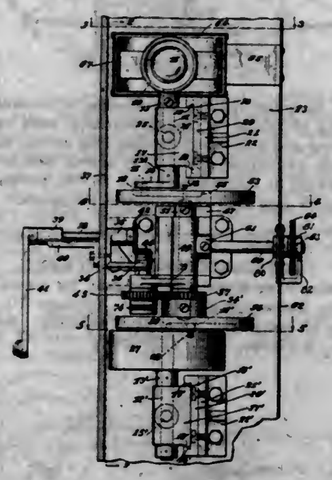
1,693,721. CLOCK-CONTROLLED SWITCH. HECTOR P. MACLAGAN, Oak Park, Ill., assignor to McIntosh Electrical Corporation, Chicago, Ill., a Corporation of Delaware. Filed Jan. 24, 1925. Serial No. 4,401. 9 Claims. (Cl. 200—38.)



2. In a time controlled switch, the combination of a clock driven staff, a disk carried by said staff and having a counterbore and releasing groove, mechanism for engaging said counterbore including a spring tending to move said mechanism to its released position, an electric switch, and connections between said switch and said mechanism to open said switch upon release of said mechanism, said mechanism comprising a pivotally supported lever having a pin for engaging said counterbore.

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1,693,722. PANORAMIC MOTION-PICTURE CAMERA. WALTER J. MCINNIS, Stelton, N. J., assignor to Widescope Camera Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 26, 1925. Serial No. 52,491. 15 Claims. (Cl. 88—16.)



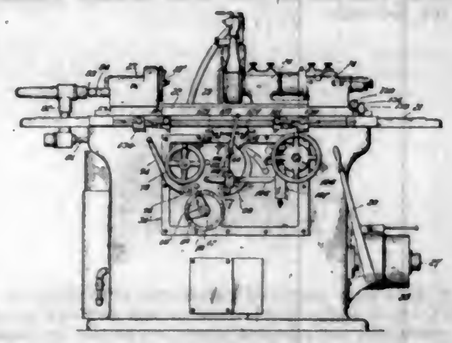
1. In a motion picture camera, in combination, a revoluble lens, means for completely revolving the lens and means whereby the speed of revolution of the lens will be varied during each revolution thereof while the revolving means maintains a uniform speed of revolution.

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1,693,723. GRINDING MACHINE. RAYMOND C. MITCHELL, Springfield, Ohio, assignor by mesne assignments, to Barber-Colman Company, a Corporation of Illinois. Filed Aug. 8, 1921. Serial No. 490,479. Renewed Oct. 1, 1925. 9 Claims. (Cl. 51—165.)

2. In a grinder, the combination of a slide-table, a grinding-wheelstand, cross-feed mechanism for the latter, having a shiftable part, automatic means for reciprocating

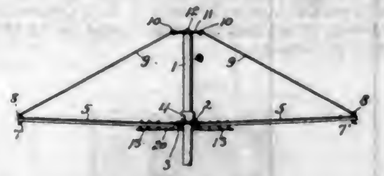
the table, said table reciprocating means having operative connections to actuate the cross-feed mechanism, a constantly-moving part and means operatable from said con-



stantly moving part for actuating said cross-feed independently of table-reciprocation, said shiftable parts being movable to render idle either operating mechanism alternatively.

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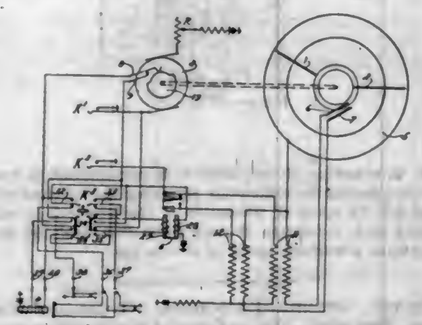
1,693,724. CARROUSEL-DRIVING MECHANISM. CHARLES E. MORRIS, Leavenworth, Kans. Filed July 26, 1926. Serial No. 124,936. 9 Claims. (Cl. 272—40.)



1. In a carrousel driving mechanism, a revoluble support having circularly arranged brackets, each having a lateral recess and a hole intersecting said recess, and a pin in said hole extending across said recess, and a driving wheel mounted in said recesses and having peripheral recesses in which said pins are respectively disposed.

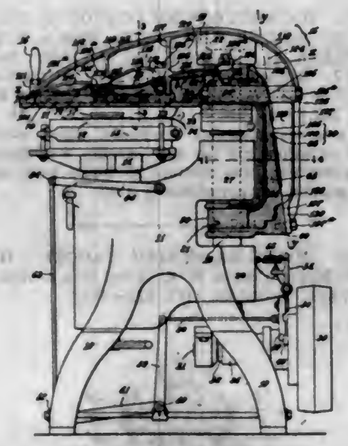
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1,693,725. IMPULSE-TESTING EQUIPMENT. MARTIN L. NELSON, Park Ridge, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Oct. 18, 1924. Serial No. 744,528. 8 Claims. (Cl. 177—380.)



6. In a testing apparatus, a plurality of arms having free ends spaced a definite distance from each other, a ring adjacent and in like relation to said arms, means for rotating said arms at a constant speed, and means controlled by the device under test for alternately producing sparks between said arms and ring.

1,693,726. PRESS FOR CUTTING OR PUNCHING SHEET MATERIAL. JOHN ROGER OLIVER, Medfield, Mass., assignor to Reece Shoe Machinery Company, Boston, Mass., a Corporation of Maine. Filed July 30, 1927. Serial No. 209,497. 2 Claims. (Cl. 164—19.)



1. A power press of the clicker type for operating upon leather or other sheet material comprising the bed for supporting the material flatwise, mechanism to depress and raise the presser, and a presser laterally swingable to selected operative positions over the bed, and built up of upper and lower longitudinal components unitarily interconnected in longitudinal surface contact along a division surface proximate to the neutral axis of strain of the presser, the lower component consisting of a relatively light metal alloy of high surface hardness and tensile strength, and the upper component consisting of a relatively heavy metal of high rigidity and compressive strength, whereby such components mutually reinforce each other against the strains encountered in practical operation.

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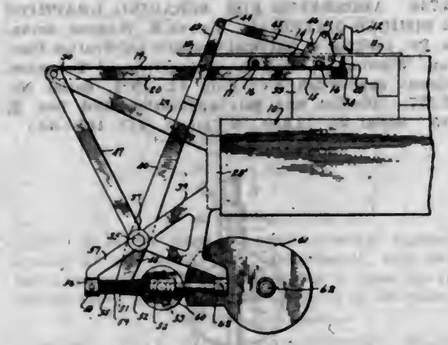
1,693,727. ACOUSTIC DIAPHRAGM. HERMAN G. PAPE, New York, N. Y. Filed Apr. 15, 1926. Serial No. 102,291. 14 Claims. (Cl. 179—181.)



1. The method of determining the shape and size of a diaphragm loading for a given type of magnet poles comprising dropping particles of magnetic material on said diaphragm and relatively rotating said diaphragm and said poles while said diaphragm is in the magnetic field of said poles.



1,693,728. MATERIAL-FEEDING DEVICE. THOMAS F. RAINSFORD, Detroit, Mich., assignor to Whitehead and Kales, Inc., River Rouge, Mich., a Corporation of Michigan. Filed June 22, 1925. Serial No. 38,949. 6 Claims. (Cl. 271—2.5.)



1. In a material feeding apparatus, a reciprocable carriage, a plurality of transversely arranged fingers carried by said carriage for frictionally engaging the material to be fed, and a plurality of rollers carried by said carriage and engaging the bottom surface of the material, said rollers corresponding in number to the fingers aforesaid.

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1,693,729. LAMINATED GLASS AND PROCESS OF PRODUCING THE SAME. JAMES W. H. RANDALL, New York, N. Y., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 17, 1927. Serial No. 233,829. 15 Claims. (Cl. 49—81.)

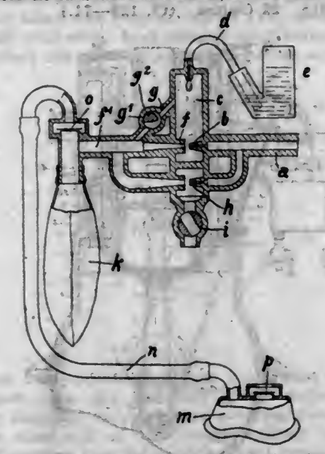


4. As a new article of manufacture, a sheet of laminated glass including a film of transparent, substantially colorless rubber.

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1,693,730. BREATHING APPARATUS PARTICULARLY FOR ADMINISTERING ANÆSTHETICS. HANS WILHELM CHRISTIAN SCHRÖDER, Lubeck, Germany, assignor to Alexander Bernhard Dräger, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed July 17, 1926, Serial No. 123,125, and in Germany Nov. 16, 1925. 1 Claim. (Cl. 128—203.)

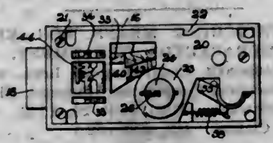
Breathing apparatus comprising a breathing bag, a conduit for gas under pressure leading to said breathing bag, an injector in said conduit, a chamber about said injector, a source of anæsthetic communicating with said chamber, means for regulating the output of anæsthetic, a second conduit connected with said first mentioned conduit, bypassing said injector and leading to said breathing bag, an injector in said second conduit, a chamber about said



second injector, said last mentioned chamber having a passage communicating with the atmosphere, and a valve in said passage for regulating the amount of air injected.

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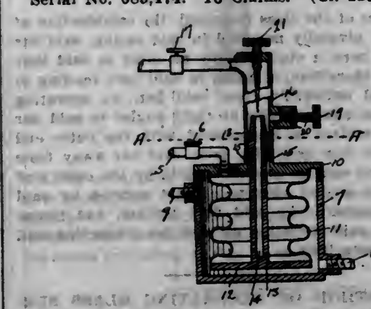
1,693,731. LOCK. CHARLES FREDERICK SIOBERG, York, Pa., assignor to York Safe and Lock Co., York, Pa., a Corporation of Delaware. Filed Sept. 20, 1924. Serial No. 738,786. 7 Claims. (Cl. 70—70.)



1. A lock, including, in combination, a casing and a bolt movable with respect thereto, locked means normally preventing a retraction of said bolt, means for retracting said bolt to a predetermined point without disturbing said first-named means, means whereby said bolt may be retracted beyond said predetermined point, and means associated with said casing adjacent said bolt, said means operatively connecting with said locked means during such further retraction of the bolt to automatically unlock said locked means.

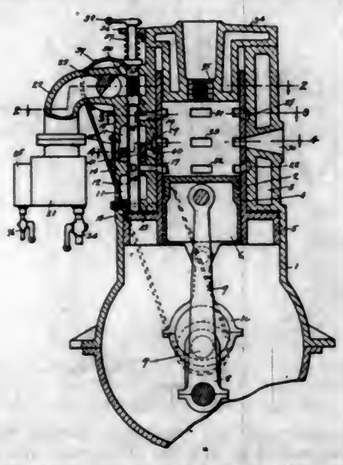
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1,693,732. PRIMING APPARATUS. CHARLES LAWRENCE STOKES, Los Angeles, Calif. Filed Jan. 30, 1924. Serial No. 689,474. 16 Claims. (Cl. 123—180.)



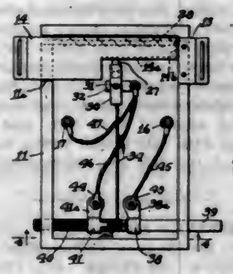
7. In an internal combustion engine having an oil supply under pressure, the combination of a flexible diaphragm, means for subjecting the diaphragm on one side to the oil pressure and means for subjecting the other side of the diaphragm to the suction in the gas inlet for the engine.

1,693,733. METHOD AND MEANS FOR APPLYING ENGINE EXPLOSION PRESSURE. CHARLES LAWRENCE STOKES, Los Angeles, Calif. Filed Oct. 15, 1924. Serial No. 743,818. 22 Claims. (Cl. 123—71.)



7. An internal combustion engine having a sleeve valve, a compression chamber and a carburetor in combination with means to pass a combustible mixture from the carburetor to the compression chamber, where the same is compressed at constant pressure, and thence in varying amounts to the interior of the sleeve valve.

1,693,734. SWITCHING MEANS FOR EFFECTING ELECTROTHERAPEUTIC TREATMENT. MELANCTHON R. WAGGONER, Cedar Rapids, Iowa, assignor to McIntosh Electrical Corporation, Chicago, Ill., a Corporation of Delaware. Filed June 29, 1923. Serial No. 648,427. 5 Claims. (Cl. 200—52.)



1. In a device of the class described, the combination of a casing, a bar pivotally mounted in said casing, said bar having an end bore, a stud slidably mounted in said bore and projecting therefrom, a spring in said bore tending to move said stud outwardly from said bar, an operating member movable substantially at right angles to said bar and having a surface in engagement with the outer end of said stud, an arm extending from said bar away from said stud, a first electric contact carried by the outer end of said arm, a second electric contact carried by said casing for engagement by said first contact, and means extending from said operating member for connecting said casing to a human body.

1,693,735. METHOD OF DECORATING GLASS SURFACES. KALMAN WARGA, New York, N. Y., assignor to Clarence W. Bickford and Mary Bickford, Osceola Mills, Pa. Filed Nov. 17, 1927. Serial No. 234,054. 4 Claims. (Cl. 49—81.)

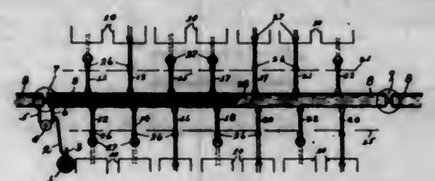
3. The method of fixing designs on glass objects, which consists in first, forming the design in color films containing each a mineral pigment and a vitreous binding material, said films being all fusible at the same temperature, second, placing the said design in a mold fitting the glass object, third, inserting the glass object in its hot state into said mold in contact with said design, and, fourth, fixing by heat said films to said glass object while the latter travels within the said mold through a leer.

1,693,736. APPARATUS FOR ABRADING GRAPHITE OR SIMILAR MATERIAL. LEWIS S. WATRES, Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del., a Corporation of Delaware. Original application filed July 11, 1924, Serial No. 725,377. Divided and this application filed Dec. 5, 1925. Serial No. 73,310. 5 Claims. (Cl. 137—90.)



1. In combination a vibrating support, a chamber mounted thereon, a magazine tube extending into said chamber, an outlet from said tube into said chamber, abrasive material in said chamber, a rectilinear moving oscillator operated by the vibration of said chamber, said abrasive material being carried by said oscillator.

1,693,737. METHOD AND APPARATUS FOR LOCATING THE POINT OF ESCAPE OF A FLUID FROM CONCEALED PIPES. WILLIAM B. WELDON, Chicago, Ill., assignor to William S. Darley, Chicago, Ill. Filed June 23, 1927. Serial No. 200,990. 10 Claims. (Cl. 137—77.)

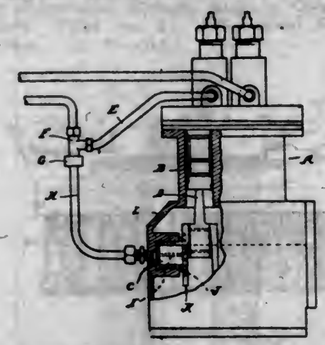


1. The method of locating the point of escape of fluid from a concealed pipe, which consists in first preventing free and unknown flow in said pipe; then introducing a detectable substance into said pipe; and then withdrawing fluid from said pipe at various distances from the point of introduction until two adjacent points are found to which said detectable substance has and has not penetrated.

1,693,738. OIL EXTRACTOR. THOMAS C. WHITEHEAD, Detroit, Mich. Filed July 23, 1923. Serial No. 653,235. 2 Claims. (Cl. 230—206.)

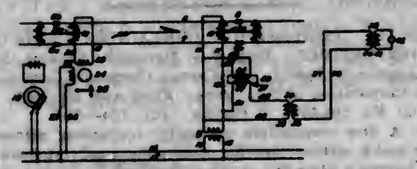
1. The combination with a gas pump comprising a crank shaft, and a casing for said shaft, said casing further forming a lubricant container, a gas conduit for the gas compressed by the pump, means connected to said conduit for collecting lubricant carried in suspension by said gas, a conduit leading from said collecting means into said casing, and a centrifugal thrower arranged within said casing upon said crank shaft and formed with a plu-





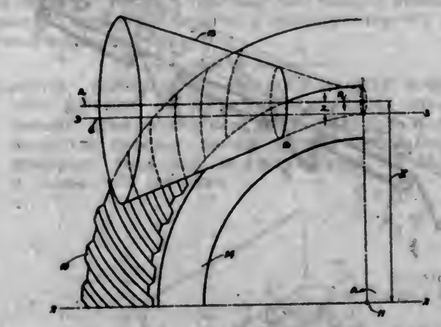
rality of radial passages communicating substantially axially of said shaft with said conduit, said passages being arranged to locate the outlet of at least one thereof always above the normal lubricant level in the crank case.

1,693,739. TRAIN-INDICATION SYSTEM. GILBERT C. WHITNEY, New York, N. Y. Filed May 29, 1925. Serial No. 33,731. 28 Claims. (Cl. 246—27.)



1. In a train indication system, a track circuit including a source of energy, a plurality of impedance bonds connected in parallel with the track rail part of said track circuit, and indication means inductively coupled to a circuit which is connected in parallel to said track circuit and synchronously responsive to the presence and movement of a train on said track circuit.

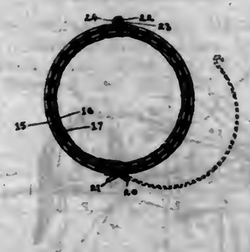
1,693,740. GEAR. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Aug. 6, 1926. Serial No. 127,618. 15 Claims. (Cl. 74—41.)



1. A tapered gear having longitudinally curved teeth and of constant pitch along a straight line offset from its axis.

1,693,741. LIQUID FILTER. ANDREW WUEST, Rochester, N. Y. Filed May 23, 1927. Serial No. 193,483. 3 Claims. (Cl. 210—154.)

1. A liquid filter having a filtering unit comprising an inner cylinder filtering screen, a filtering medium supported on said inner cylinder filtering screen, an outer cylinder filtering screen made up of a pair of trough sections downwardly projecting hook shaped interlocking lugs provided along one edge of one of said trough sections, upwardly projecting hook shaped interlocking lugs provided along the opposing edge of the other of said trough



sections, said interlocking lugs being adapted to hook into each other and hold said trough sections together on one side, and locking means provided along the edges on the other side of said trough sections to close said trough sections into the outer cylinder screen to embrace the filtering medium supported on said inner filtering screen.

1,693,742. BUILDING CONSTRUCTION. ALBERT F. BEMIS, Newton, Mass., assignor to Bemis Industries, Inc., Boston, Mass., a Corporation of Delaware. Filed Dec. 2, 1925. Serial No. 72,674. 4 Claims. (Cl. 72—16.)

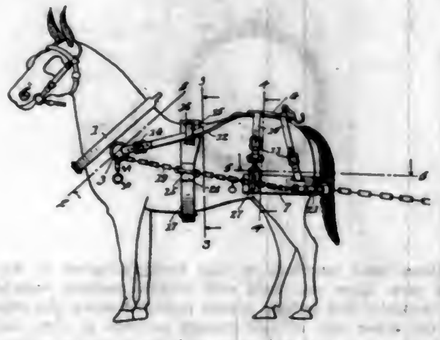


1. In a building construction, means for securing elongate juxtaposed tubular units to a frame member consisting of an elongate key member inset in the frame member and extending into slots in the ends of walls of the units and being slotted to engage said walls.

1,693,743. HARNESS. GEORGE BECKFORD, Pageton, W. Va., assignor of one-half to William E. Cook, Pageton, W. Va. Filed Dec. 9, 1927. Serial No. 238,805. 1 Claim. (Cl. 54—5.)

Harness for a draft animal comprising a collar, a belly band and a breeching strap, traces connected at one end

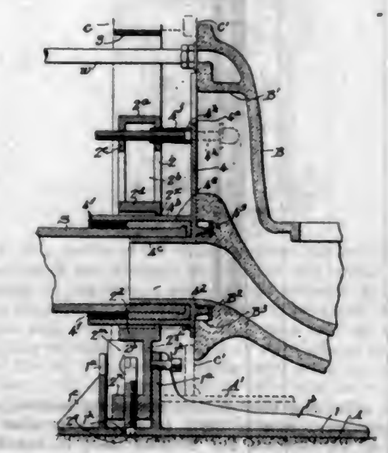
with the collar and at their other ends with the breeching strap and connected at points intermediate their ends with the belly band, draft members connected with the breeching strap, a spider ring adapted to rest upon the rump of the animal, billet straps connecting the spider ring with



the breeching strap at spaced intervals and back straps connected at one end with the spider ring and crossing each other over the back of the animal, and connected at their other ends with the collar at the forward ends of the traces, the inermediate portions of the back straps slidably engaging the belly band.

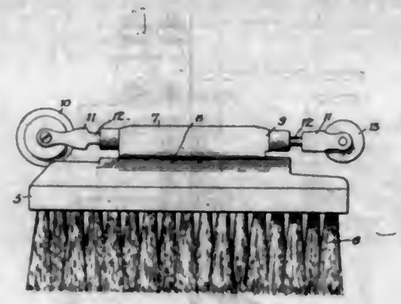
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1,693,744. ADJUSTABLE SUPPORTING CHAIR FOR WALL CLOSETS, ETC. WILLIAM V. BULMAN, Philadelphia, Pa. Filed May 1, 1928. Serial No. 274,212. 20 Claims. (Cl. 4—252.)



1. A supporting chair for wall closets and the like, comprising a casting adapted to be mounted in the wall and having a horizontal bore; and a plate adjustably mounted on said casting and having a tubular caulking hub engaging the bore; means for securing the closet to said plate; and means for connecting the caulking hub to the outlet of said closet.

1,693,745. COMBINATION BRUSH, KNIFE, AND ROLLER. JAMES F. CONNOR, Renovo, Pa. Filed Oct. 12, 1927. Serial No. 225,739. 3 Claims. (Cl. 216—61.)



1. A device of the character described comprising a brush portion, a handle therefor having laterally extended portions, a creasing roller fixedly mounted in one of said extended portions, and a cutting disk mounted in the other of said extended portions, substantially as set forth.

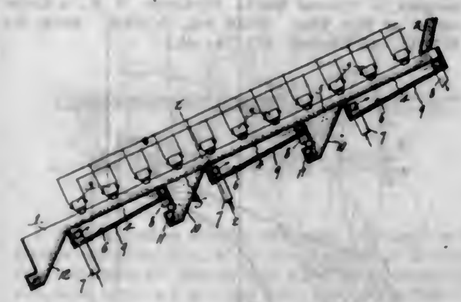
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1,693,746. COMPOSITION CONTAINING CELLULOSE DERIVATIVES. JOSEPH G. DAVIDSON, Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Apr. 29, 1926. Serial No. 105,577. 5 Claims. (Cl. 124—79.)

5. A new composition of matter containing nitrocellulose and a solvent therefor comprising a polyethylene glycol having a plurality of ether linkages.

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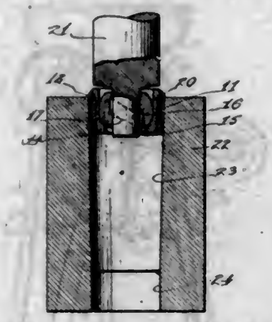
1,693,747. DRIER. EDWARD P. DECKER, New York, N. Y. Filed Nov. 17, 1927. Serial No. 233,814. 6 Claims. (Cl. 209—238.)



1. A drier comprising in combination, an inclined impervious drying support and an inclined screen forming a continuation of the support, means for vibrating said support and screen to impel the material vertically from the support and screen and cause it to gradually descend and pass the finer particles to the bottom, and means for applying heat to the support to dry the fines so that they will more easily pass through the screen.



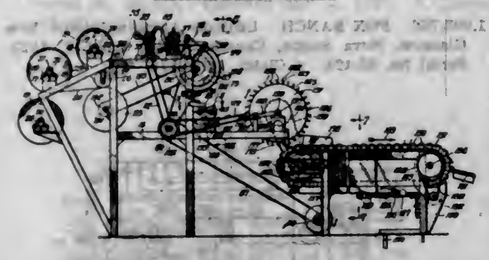
1,693,748. METHOD OF MAKING BALL AND SOCKET JOINTS. WILLIAM J. FIEGEL and WINFIELD S. ENDERICK, Detroit, Mich., assignors to Bohn Aluminum and Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Jan. 24, 1927. Serial No. 163,271. 13 Claims. (Cl. 29—49.5.)



1. In the method of manufacturing ball and socket joints, the steps which consist in shaping the babbitt of a babbitted shell to form a hemispherical recess, introducing a ball into said recess and closing in the end of the recess to confine the ball therein.

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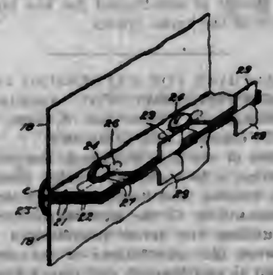
1,693,749. MACHINE FOR MAKING ABSORBENT ROLLS. EDWIN E. GLOMSTAD and JOHN A. WILLIAMSON, Neenah, Wis., assignors, by mesne assignments, to International Cellucotton Products Co., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,358. 27 Claims. (Cl. 93—1.)



1. In a machine of the class described, the combination of means for rolling a relatively thin sheet of absorbent material upon itself to form a self-supporting roll and means for ironing the roll.

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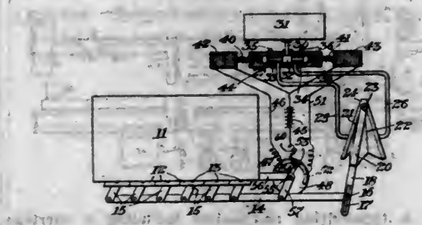
1,693,750. PANEL JOINT FOR AUTOMOBILE BODIES AND METHOD OF MAKING THE SAME. OTTO J. GROEHN, Grosse Pointe Park, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 15, 1925. Serial No. 50,406. 3 Claims. (Cl. 296—29.)



1. In a panel joint for automobile bodies, in combination, panels having inturned edge flanges, a T-shaped molding having a flange inserted between the flanges of proximate panels and arms overlapping the marginal portions of the outer surfaces of the panels, said panel flanges and molding flange being formed respectively with slots disposed transverse to one another, and fastening means passing through said slots at their points of intersection and securing all of said flanges together.

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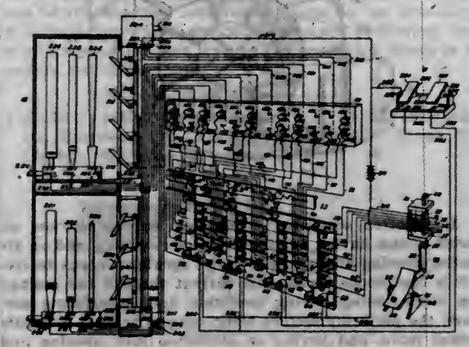
1,693,751. SHUTTER-CONTROL MECHANISM FOR MUSICAL INSTRUMENTS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Nov. 12, 1920, Serial No. 423,550. Renewed Apr. 15, 1927. 7 Claims. (Cl. 84—347.)



7. In a musical instrument, a plurality of shutters arranged for simultaneous movement to control the passage of sound supplied by said instrument, an operating device, a plurality of position indicators actuated wholly by electrical energy and controlled by said device, a rotatable member operated by one of said position indicators, a plurality of contacts carried by said member, actuating means for opening said shutters controlled by one of said contacts, actuating means for closing said shutters controlled by any of said contacts, and means including a bellows mechanism controlled by said position indicators for selecting one or the other of said actuating means according as said shutters are required to be opened or closed.

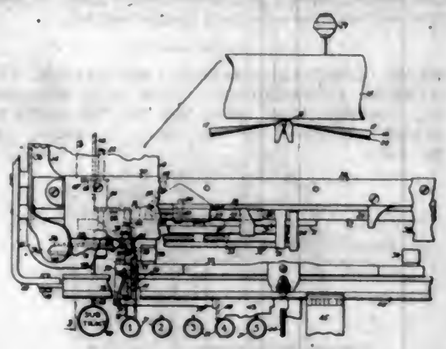
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1,693,752. ORGAN CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Nov. 7, 1924, Serial No. 748,310. Renewed Apr. 20, 1928. 5 Claims. (Cl. 84—347.)



1. In a musical instrument, the combination with a sound producing mechanism and means for controlling the sound produced thereby, of a manually operable control device, switching mechanism operated by said device, other switching mechanism interconnecting said first named switching mechanism and said sound control device, and a sequentially operable controller for initially rendering certain portions of the sound producing mechanism effective and for subsequently rendering other portions of the sound producing mechanism effective according to the predetermined adjustment of the manually operable control device.

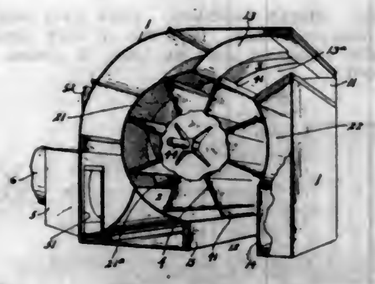
1,693,753. COMPUTING MACHINE. FREDERICK A. HART, New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1926. Serial No. 79,613. 3 Claims. (Cl. 235—59.)



2. In a typewriting mechanism including a carriage and computing mechanism having an actuator provided with a reversing device for setting the said actuator for subtraction, the combination of a subtract key, said key connected to operate said reversing device, a latch lever for said reversing device swinging in a vertical plane, a second lever swinging in a horizontal plane, and a wiper on the typewriter carriage for deflecting said second lever, said second lever acting when so deflected to release said latch and to allow the mechanism to be restored to condition for addition.

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1,693,754. COTTON SEPARATOR. NELSON B. HENRY, Atlanta, Ga. Filed Sept. 27, 1927. Serial No. 222,363. 4 Claims. (Cl. 19—75.)

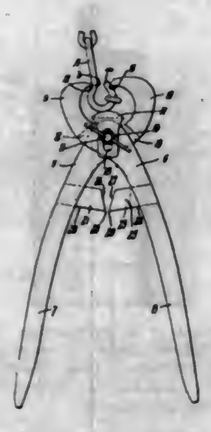


1. A cotton separator, comprising, in combination, an outer casing, having an air-cotton inlet opening, and an air outlet opening and a cotton outlet opening; means to create a continuous suction air current through the casing; an inner casing having perforate and imperforate sectors, the perforate sectors being concentric with a paddle wheel valve, and having an air-cotton inlet opening and a cotton outet opening; that paddle wheel valve, within the inner casting, the sealing strips of the paddles sweeping the perforate sectors; a by-pass for the air-cotton current leading by several of the paddles; means to actuate the paddle wheel valve positively.

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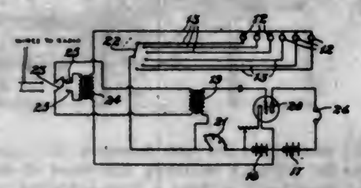
1,693,755. TIRE-CHAIN TOOL. JOHN P. HOTZ, Boston, Mass., assignor of one-half to Manton A. Wood, Boston, Mass. Filed Nov. 1, 1926. Serial No. 145,422. 1 Claim. (Cl. 81—15.)

In a tool of the character described a pair of levers pivoted together intermediate the ends thereof, each of said levers embodying therein a handle and a jaw, said jaw having a curved gripping edge, a stop mounted upon the pivot for said levers and projecting between said jaws, means to clamp said stop upon said pivot, an arm projecting laterally from each of said handles, and a wedge upon each of said arms adapted to cooperate with each other to apply pressure in opposite directions to an article inserted therebetween.



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1,693,756. FOX RANCH. LEONARD ARTHUR JORDAN. New Glasgow, Nova Scotia, Canada. Filed Oct. 19, 1925. Serial No. 63,424. 1 Claim. (Cl. 179—1.)



The combination with an animal pen or cage, of means for reproducing and transmitting sound made by the animals therein, whereby the knowledge of conditions within the pen is obtainable without visiting the pen, and comprising a microphone, a radio circuit, a double throw switch whereby the low voltage and resistance of the microphonic circuit is substituted for the higher voltage and resistance of the radio circuit.

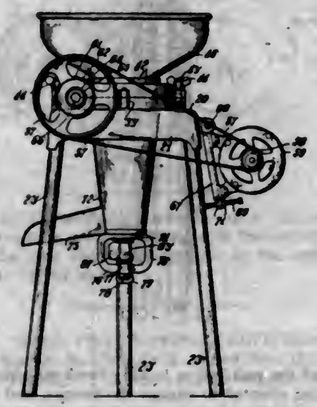
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1,693,757. MACHINE FOR EXPRESSING JUICE FROM FRUIT, CHOPPING MEAT, ETC. ALEXANDER F. KAPTULLER, Chicago, Ill. Filed Dec. 8, 1926. Serial No. 153,248. 18 Claims. (Cl. 100—48.)

1. A machine of the type described, comprising in combination a frame, a feed screw revolubly mounted in vertical position thereon and having convolutions extending inwardly substantially to the axis of the screw, housing means surrounding the screw providing a compression chamber between the convolutions of the screw substantially from end to end thereof, and means arranged about the periphery of the screw above said housing and rigidly connected with the upper end portion of the screw for

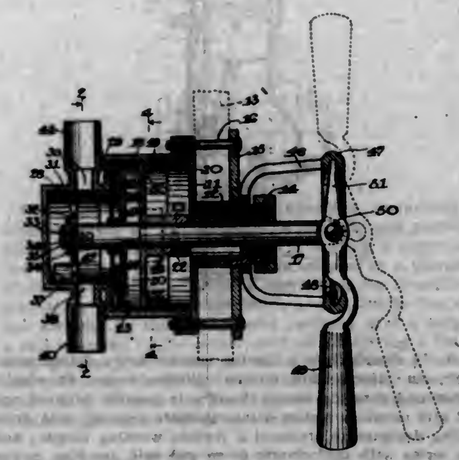


driving the screw and having a feed opening therethrough extending substantially from the axis of the screw to the outer edge of the convolution through which opening unrestricted access is provided at all times to the upper end portion of the compression chamber as said screw is rotated.



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1,693,758. COMBINATION MIXING VALVE. VINCENT D. HENNESSEY, Milwaukee, Wis. Filed July 27, 1925, Serial No. 46,333. Renewed Apr. 2, 1928. 9 Claims. (Cl 277—11.)



4. In a mixing valve, the combination of a valve casing having inlet and discharge ports, a rotatable valve member disposed within said casing for controlling the admission of fluid from said inlet ports in variable proportions, a second valve member rotatably disposed within said casing and having an opening adapted to selectively register with said discharge ports, and a common actuating member secured to said valve members for effecting their rotation and axial movement, said second valve member being axially movable to a position in which said discharge opening is out of registration with said discharge ports.
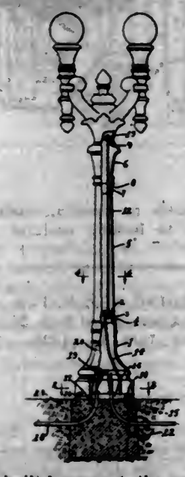
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1,693,759. PRODUCTION OF ARTIFICIAL YARNS OR THREADS. GUILLAUME LARDY, Page de Roussillon, France, assignor to Societe pour la Fabrication de la Soie "Rhodiaseta," Paris, France. Filed Apr. 6, 1926, Serial No. 100,177, and in France Apr. 28, 1925. 4 Claims. (Cl. 18—54.)

1. A process consisting in imparting to filaments and threads obtained by the dry spinning of cellulose derivatives a fugitive and temporary coloration for the purpose of differentiating textile fibres having different features, said coloration being applied on the moving threads in an operation combined with the production of said threads.

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1,693,760. READY-BUILT LAMP-POST. HAROLD M. LLOYD, Los Angeles, Calif. Filed Dec. 11, 1926. Serial No. 154,073. 3 Claims. (Cl. 240—84.)



1. In a ready-built lamp-post, the combination of a base, a column supported on the base, a cap on the upper end of the column, tie-bolts extending through the column and connecting the base and the cap to the ends of the column, a base-plate, tie-bolts extending down through the interior of the base and securing the same to the base-plate, said base-plate having external flanges projecting outwardly beyond the side wall of the base with openings to receive foundation bolts.

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1,693,761. MEAT-CUTTING BOARD. DOMENIC MACRIPO, Hazleton, Pa. Filed May 23, 1927. Serial No. 193,665. 1 Claim. (Cl. 146—215.)



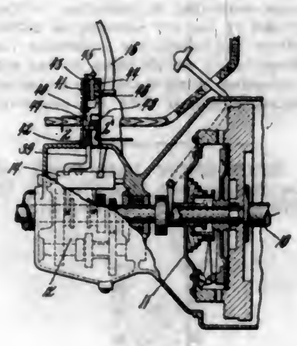
A device of the class described comprising a board, a plurality of pins carried thereby, a cover hingedly connected to the board for confining the pins and protecting the cutting surface of the board when folded thereon, said cover serving as a tray to receive slices when the board is in its operative position.

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1,693,762. LOCKING DEVICE FOR AUTOMOBILES. EDGAR J. MARTEL, Laconia, N. H. Filed Oct. 26, 1926. Serial No. 144,264. 4 Claims. (Cl. 70—127.)

1. Locking mechanism for an automobile having shifter rods, a self-starter switch and an ignition circuit, compris-

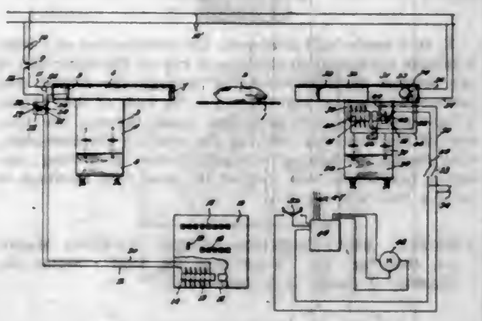
ing means for locking the shifter rods in any of their positions, means for locking the self-starter switch open, a normally closed switch in the ignition circuit, and a lock-con-



trolled element actuable to simultaneously move both of said locking means to locking position and open said ignition switch.

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1,693,763. REGISTERING APPARATUS. CLAUDE WORTH MARTIN, Gold Hill, Oreg. Filed Sept. 30, 1926, Serial No. 138,802. Renewed July 13, 1928. 1 Claim. (Cl. 192—116.5.)



In apparatus of the class described, means for effecting movement of objects including object-moving means driven by an electric motor, a supply circuit for the motor, an electric light bulb in the motor supply circuit for directing a beam of light across the path of the moving objects to be intercepted thereby at the time of their passage, and an electrically operated switch in circuit with the light bulb and motor, and constituting means whereby the supply of current to the motor will be interrupted in the event of burning out of the filament of the light bulb.

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1,693,764. GRIP CAGE GRAB FOR DEEP-WELL PUMPS. ALBERT BRYAN MCCAIN, Reward, Calif. Filed Jan. 24, 1928. Serial No. 249,031. 4 Claims. (Cl. 294—110.)

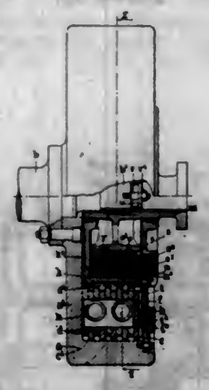
1. A grip cage grab consisting of a hollow casing open at one end, a pull rod removably suspended within the casing, said pull rod being provided with a protruding head, gripping prongs having shoulders resting on the protrud-



ing head of the pull rod, a locking block slidable upon the pull rod and adapted to engage the prongs, and means for raising the locking block to release the gripping prongs.

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1,693,765. ELASTIC DRIVE. CHARLES ALGERNON PARSONS and STANLEY SMITH COOK, Newcastle-upon-Tyne, England; said Cook assignor to said Parsons. Filed Mar. 24, 1927, Serial No. 177,967, and in Great Britain May 6, 1926. 5 Claims. (Cl. 64—96.)



1. In combination, a driving member and a driven member; an intermediate element therebetween; an elastic drive and damping means therefor in parallel between one of said members and said intermediate element, said drive being designed to transmit a certain working torque; and in series with said elastic drive and said damping means and in power-transmitting relation between said intermediate element and the other of said members a friction coupling capable of slipping an unlimited amount in response to the torques than said certain working torque.

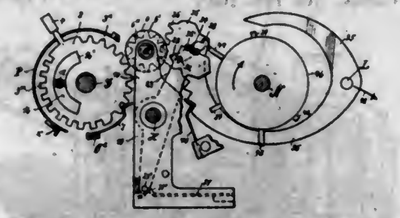
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1,693,766. CALCULATING MACHINE. ALBERT SCHUBOTH, Brunswick, Germany, assignor to Firma Hannoversche Kassen-Gesellschaft m. b. H., Peine, Hanover, Deutschland, Germany. Filed Feb. 7, 1925, Serial No. 7,638, and in Germany Feb. 11, 1924. Renewed Oct. 16, 1928. 4 Claims. (Cl. 235—137.)

1. In a calculating machine, a tens transfer including a counting disc, a control lever adapted to be displaced by the



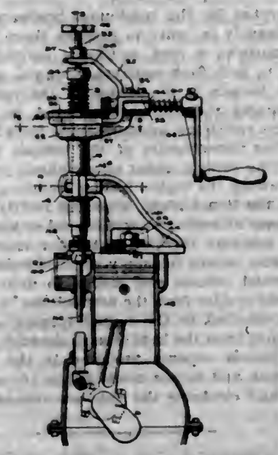
counting disc on exceeding the tens transfer shift limit, a rotatable member, drive pins carried by said member, an oscillating lever pivotally connected with the control lever and moved thereby into the paths of the pins, said pins



acting to tilt the oscillating lever in one or the other direction, and transfer means coacting with the oscillating lever to effect the tens transfer movement of the counting disc of the next higher value.

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1,693,767. TOOL FOR CUTTING VALVE SEATS. SYLVESTER SMITH, Reedley, Calif. Filed Nov. 15, 1926. Serial No. 148,522. 1 Claim. (Cl. 90—12.5.)



In a device of the character described comprising a bracket having an arm extending therefrom and provided with a bearing, a ball mounted in the bearing, a sleeve carried by the ball and adapted to be oscillated in a plurality of different positions, a shank carried by the sleeve and provided with a threaded passage, a pilot rod having one end threaded in the passage and provided with a socket, a ball mounted in the socket, said shank having a transverse slot, a cutter in the slot and provided with a socket, said ball being forced into the socket and cutter when the pilot rod is screwed into the position so that the cutter is retained against movement in the shank.

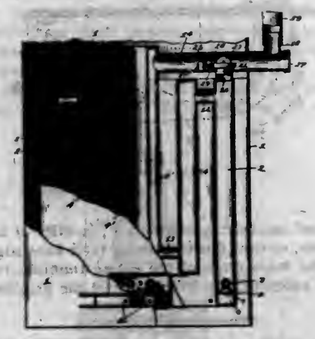
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1,693,768. SCREW-THREAD TAP. HERMANN STEINACK, Berlin, Germany. Filed Apr. 16, 1923, Serial No. 632,481, and in Germany Apr. 24, 1922. 3 Claims. (Cl. 10—141.)



1. A screw tap having a thread core comprising a finishing part preceded by a roughening part, the axis of which latter part deviating from the main axis of the tap, and cutting teeth provided on said thread core.

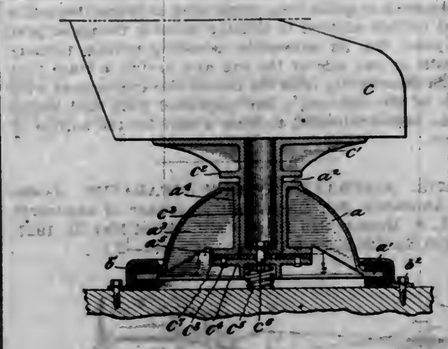
1,693,769. AUTOMATIC FLUE CONTROL FOR FURNACES. GEORGE A. TUCK, San Francisco, Calif. Filed Jan. 10, 1927. Serial No. 160,107. 16 Claims. (Cl. 126—116.)



2. A furnace comprising a combustion chamber and flue; a chimney; a vent passage connecting the flue and the chimney; a by-pass directly connecting the vent passage and the combustion chamber; and means entirely enclosed within the vent passage for automatically closing the by-pass when the temperature of gases within the vent passage reaches a predetermined degree.

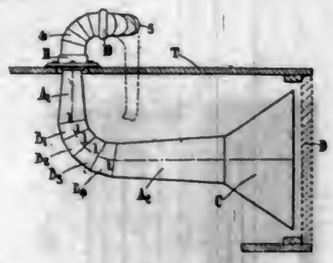
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1,693,770. SEAT. RAYMOND C. WILSON, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 27, 1926. Serial No. 137,896. 2 Claims. (Cl. 155—97.)



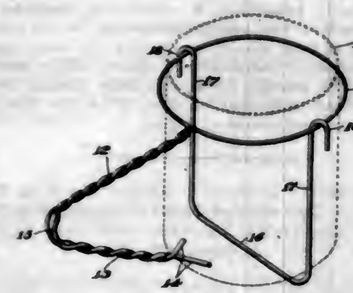
1. In a swivel seat, a base, a seat frame, means to mount the frame in the base rotatably, means to receive the thrust of the seat when the latter is occupied, means independent of the last named means to exert a force upwardly against the frame to resist the weight of the seat, means to receive the thrust of the frame due to the force of said last named means, and friction means disposed between the last named thrust receiving means whereby the seat will be restrained from swivelling movements.

1,693,771. SOUND AMPLIFIER. THOMAS YOUNG, Enfield, England. Filed Dec. 24, 1925, Serial No. 77,538, and in Great Britain Dec. 30, 1924. 3 Claims. (Cl. 181—27.)



1. A sound amplifier comprising a plurality of laminated, wood, hollow, conical frusta, having their base edges joined together, the wood grain of the entire amplifier running in a direction substantially lengthwise of the amplifier.

1,693,772. PAINT-CAN HOLDER. ARTHUR G. ALLEN, Cambridge, Mass. Filed Jan. 23, 1928. Serial No. 248,628. 1 Claim. (Cl. 16—114.)



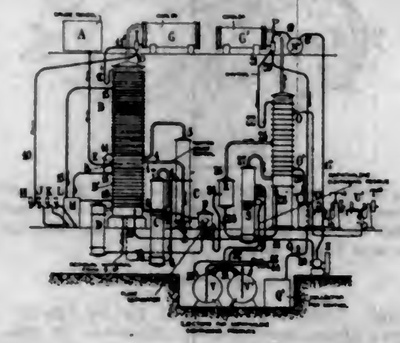
A detachable paint can holder constructed to embrace and support a paint can, comprising a frame having a looped portion adapted to slidably embrace the upper part of a paint can, an outwardly extending portion forming a handle at one side of the can and having a brace that extends downwardly from the handle into engagement with a side of the can, and a bar suspended from said looped portion and constructed to form a seat for the bottom of the can.

1,693,773. AIRCRAFT PONTOON APPARATUS. JAMES B. ANDERSON, San Diego, Calif., assignor of one-fourth to L. S. Murray, San Diego, Calif. Filed May 31, 1927. Serial No. 195,222. 5 Claims. (Cl. 244—2.)



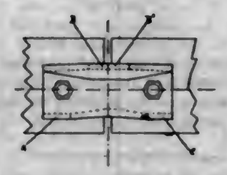
1. In a float of the class described, an air distributing means within the float, a plurality of depressions in the outer bottom float surface, and air outlet passages communicating with said air distributing means and terminating within said depressions.

1,693,774. APPARATUS FOR THE CONTINUOUS PRELIMINARY TREATMENT OF CRUDE BENZOLS. EMILE AUGUSTIN BARBET, Paris, France. Filed Dec. 1, 1925, Serial No. 72,573, and in France Dec. 5, 1924. 2 Claims. (Cl. 196—106.)



1. Apparatus for the continuous preliminary treatment of crude benzols in order to prepare them for final rectifying, comprising a first rectifying column, a vaporizer connected to said first rectifying column, means for supplying the benzols to be treated to the vaporizer, means for introducing the vapours produced in the vaporizer into the first rectifying column, means for withdrawing the lower boiling constituents of the benzols from the said first rectifying column under atmospheric pressure, means for withdrawing the higher boiling fractions from the first column in the liquid state, a second rectifying column, a vacuum pump connected to said second column to maintain a reduced pressure therein, a chamber connected to said second column, means to supply vapours from said chamber to said second column and means to deliver the higher boiling liquid residue from the first column to said chamber, a heater connected to the second column, means for delivering liquid from the base of said chamber to the heater, means to deliver vapours produced in the heater to the second column and means connected to the second column to collect and condense the vapours arising therein.

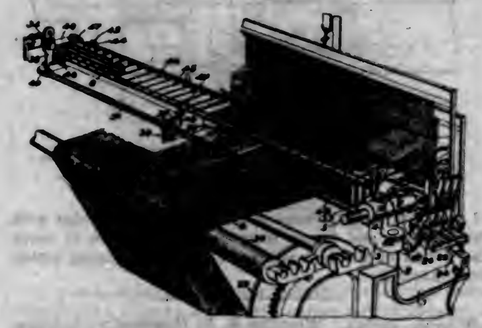
1,693,775. FISHPLATE. JEAN GABRIEL GEORGES COULLIE and JEAN LOUIS CADIS, Bordeaux, France. Filed July 8, 1927, Serial No. 204,380, and in France July 9, 1926. 1 Claim. (Cl. 238—243.)



A rail joint comprising two abutting rails, two similar fish plates consisting each of an inverted V-shaped vertical member placed on either side of the rails, said fish plates having no contact with the web of the rails and bearing only on the sloped inner faces of the top flanges, through very small bearing surfaces extending on either side of the joint, and on the upper faces of the lower flanges through two other very small surfaces provided at their lower outer ends and one bolt only adapted to secure said fish plates to each rail and disposed substantially towards the middle of the sloping line connecting the upper bearing surface with the corresponding lower bearing surface.

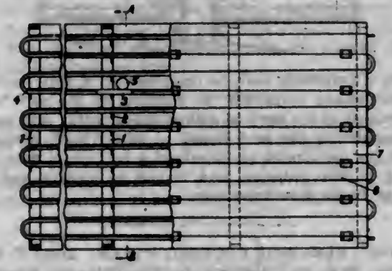


1,693,776. WARP STOP MECHANISM FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Feb. 9, 1928. Serial No. 253,025. 9 Claims. (Cl. 139—351.)



1. In a warp stop mechanism for looms, the combination of a series of drop wires normally supported by the warp threads during weaving, a transversely movable toothed detector, a series of fixed stop bars extending transversely between the drop wires above the toothed detector and separating the drop wires into a plurality of groups transversely of the loom, and means for effecting loom stoppage when any drop wire of a group is moved by the toothed detector into engagement with and is stopped in its transverse movement by a fixed stop bar on the occurrence of a warp fault.

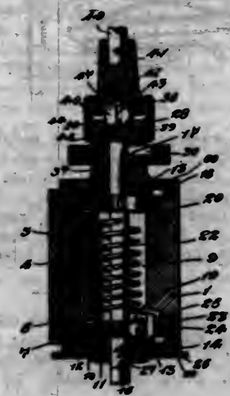
1,693,777. STRUCTURE FOR DRYING WOOD. OLOF ENGELBREKTSON, Bogen, Sweden. Filed Mar. 8, 1928, Serial No. 260,188, and in Sweden Apr. 5, 1927. 1 Claim. (Cl. 34—26.)



A structure for drying wood, comprising, in combination a long frame work having vertical standards in pairs, cross bars connecting the standards, carrier beams arranged lengthwise over one another, with a pipe coil adapted to carry a circulating current of heating medium, the said pipe coil being arranged in the longitudinal vertical middle plane of the frame in a zig-zag manner, the parts of the said pipe coil running lengthwise in the frame being arranged approximately in the same plane as the carrier beams and means for closing the long sides of the frame, substantially and for the purpose as set forth.

1,693,778. GRINDING TOOL. LOUIS ENGMAN, Moline, Ill. Filed Sept. 22, 1924, Serial No. 739,143. Renewed Sept. 10, 1928. 1 Claim. (Cl. 51—206.)

A tool for grinding cylinders comprising a tubular body having a central bore and spaced grooves in its periphery, said body having radial openings connecting said grooves and said bore, holders for grinding elements slidable radially in said grooves and having lugs extending through said radial openings into said bore, end members covering the opposite ends of said tubular body and having portions retaining said holders against longitudinal movement in said grooves, one of said end members having an axial hub extension outside of said tubular body, said end members having alined central bores, said hub having an arcuate slot extending from the bore of the associated end member through the outer wall of the hub, a rotary camshaft extending through the bore of the tubular body and having end portions journalled in the bores of said end members, said cam shaft having spaced cams in contact with the inner ends of the lugs of said holders, a coil spring encircling said cam shaft and having one end secured to the cam shaft and its opposite end secured to said tubular body, a radial pin extending through said



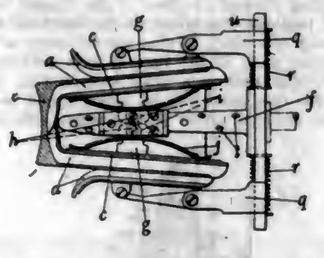
slot in said hub and secured to the adjacent end of said cam shaft, a set screw threaded through a radial opening in said hub and adjustable to and from position to lock said cam shaft against turning in said hub, and a ring adjustable circumferentially on the hub and having a pair of shoulders adapted to be engaged by the outer end portion of said radial pin to limit the turning movement of said cam shaft in opposite directions about its axis when said set screw has been loosened, said coil spring being adapted to be placed under tension when said cam shaft is turned in the direction required to permit inward movement of said holders in the grooves of said body and then tending to turn said cam shaft in the opposite direction about its axis.

1,693,779. SWIMMING BLADDER. FRITZ FRANKE, Berlin, Germany. Filed Sept. 13, 1926, Serial No. 135,235, and in Germany June 6, 1925. 1 Claim. (Cl. 9—20.)



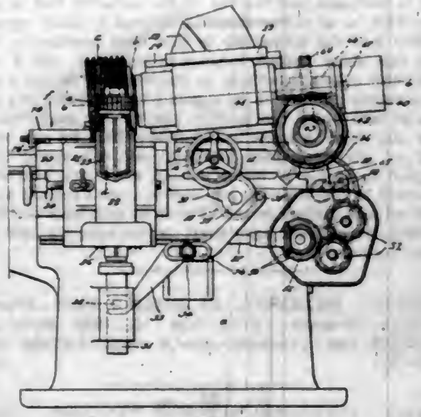
In combination with a bathing dress, swimming jacket or the like, a pocket provided on the inner surface of the breast side or chest side of the respective garment, and a swimming bladder arranged in said pocket, the size of the pocket and of the bladder being such that this latter covers the body portion extending from the chest, or the breast nipples, to the navel, or the "solar plexus," and the shape of the said bladder corresponding to the anatomic structure of the body and having the greater capacity of the bladder adjacent the breast, substantially as described.

1,693,780. MEANS FOR WASHING, DRYING, AND POLISHING TUMBLERS, CUPS, AND LIKE ARTICLES. ALFRED GRIFFITHS, Rock Ferry, England, assignor to Kleenglas Limited, London, England, a British Company. Filed Feb. 2, 1928, Serial No. 251,439, and in Great Britain Oct. 19, 1927. 5 Claims. (Cl. 15—101.)



4. Means for washing, drying and polishing tumblers, cups and like articles comprising, in combination a hollow perforated stem, two plates secured to said stem at opposite sides, means allowing the plates to have a rolling movement about their securing means, a squeegee secured to each plate and two pivotally mounted squeegee carrying plates opposed to the squeegees before referred to, as set forth.

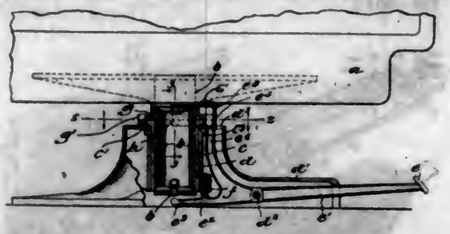
1,693,781. MACHINE FOR GRINDING GEARS. BENGT M. W. HANSON, Hartford, Conn.; Einar A. Hanson executor of said Bengt M. W. Hanson, deceased. Filed Nov. 16, 1923. Serial No. 675,034. 28 Claims. (Cl. 51—52.)



1. In a machine for grinding toothed gears, an abrasive screw having a thread of uniform outside and root diameters and corresponding in pitch to the circular pitch of the gear to be ground and uniformly corresponding in normal cross section to a rack tooth adapted to properly mesh with the teeth of the gear to be ground, means for rotatably supporting the toothed gear to be operated upon, and means for driving said abrasive screw and said supporting means, said abrasive screw being mounted for angular adjustment about a line normal to its axis whereby the convolutions on the abrasive screw where they engage the gear will be in proper relation to the teeth of the gear.

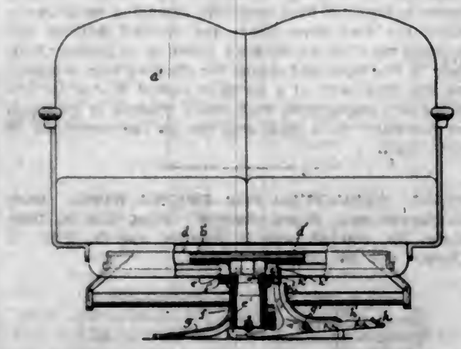
1,693,782. SEAT. WILLIAM E. B. HASSELKUS, Jamaica, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed June 4, 1926. Serial No. 113,649. 3 Claims. (Cl. 155—96.)

3. A revoluble seat including a vertical spindle, a vertical pedestal formed with a socket to receive the spindle, a flange carried with the spindle formed with diametrically disposed recesses, a flange carried with the pedestal cooperating with the first flange to carry the weight of the seat and formed with a recess to register with one



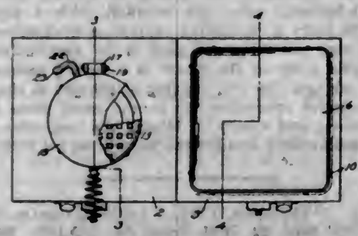
of said first named recesses, latching means carried with the pedestal, and means to separate the flanges to carry the weight of the seat and to release the latching means simultaneously.

1,693,783. SEAT. WILLIAM E. B. HASSELKUS, Jamaica, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 17, 1926. Serial No. 129,720. 7 Claims. (Cl. 155—96.)



1. In a reversible seat, in combination, a seat frame, a pedestal, means to permit the rotation of the seat frame with respect to the vertical axis of the pedestal, said means also permitting the seat frame to be elevated, means to permit the seat frame to tilt about a horizontal axis with respect to the pedestal, and means to elevate and tilt the seat frame simultaneously.

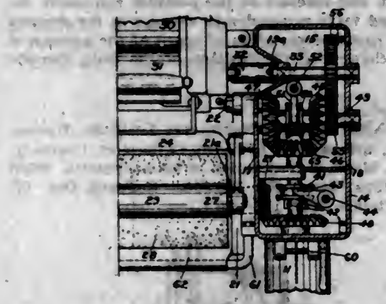
1,693,784. ELECTRIC COOKING STOVE. JOHN C. HOLLANDS, Erie, Pa., assignor to The Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 21, 1925. Serial No. 70,445. 3 Claims. (Cl. 53—10.)



1. In an electric cooking stove, the combination of an annular frame plate; a cover plate covering the frame having an upstanding integral flange with an integral closure plate within the flange forming an element receiving receptacle and protector; an electric element in the receptacle, and a cooking plate covering the receptacle and in heating relation with the element.



1,693,785. WASHING MACHINE. CHESTER C. HOWE, New Kensington, Pa., assignor, by mesne assignments, to Frank R. Alter, Parnassus, Pa. Filed Mar. 7, 1923. Serial No. 623,378. 5 Claims. (Cl. 74—7.)

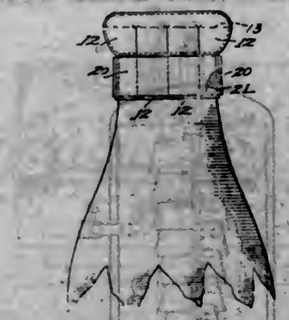


1. A supporting and operating device for laundry units, comprising a support, a rotatable casing carried thereon, a horizontal arm carried by the casing, gearing inside the casing, a horizontal shaft operated through the gearing below the arm, a second horizontal shaft above the arm and laterally off-set with respect to the first shaft but parallel thereto.

1,693,786. PROCESS FOR THE CRYSTALLIZATION OF SOLID SUBSTANCES IN A COARSE GRANULAR FORM FROM SOLUTIONS. ISAK ISAACHSEN, Oslo, Norway, assignor to Aktieselskapet Krystal, Oslo, Norway. Filed Sept. 10, 1925, Serial No. 55,002, and in Norway Sept. 17, 1924. 1 Claim. (Cl. 23—48.)

The method of crystallizing out solid substances from supersaturated solutions thereof wherein the solution and a suspension of granules of the substances circulate cyclically which comprises circulating the solution and suspension as a stream of relatively small cross sectional area whereby the granules are normally positively carried along by the circulating stream, regulating the number of granules before they have materially increased in size, and removing granules from the circulating stream at designated places therein.

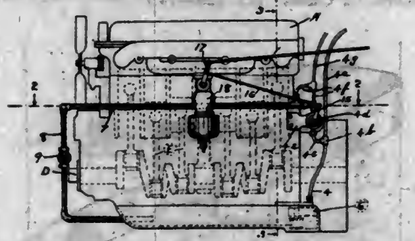
1,693,787. MILK-BOTTLE CAP. JOHN EMANUEL JOHNSON and CHARLES H. OSLUND, Worcester, Mass., assignors to The O. & J. Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 1, 1925. Serial No. 27,284. 2 Claims. (Cl. 215—38.)



1. As an article of manufacture, a paper blank for a bottle seal of circular shape, having an unbroken circular center, and tongues radiating from said center and entirely surrounding it, said tongues having their edges converging slightly for about half their length and substantially parallel to the rest of it, so that when applied to a bottle the edges of the tongues will practically come into contact throughout the length of the tongues.

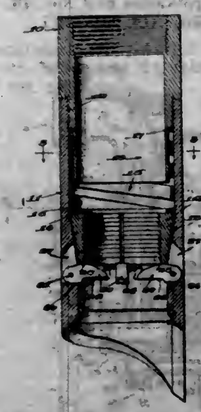


1,693,788. LUBRICATING MECHANISM. ROY E. LANGMACK, Minneapolis, Minn. Filed July 5, 1927. Serial No. 203,519. 3 Claims. (Cl. 123—196.)



1. The combination with an internal combustion engine having a carbureter, a cylinder and a piston in the cylinder, of means for adjusting the carbureter to control the speed of the engine, a conduit adapted to contain oil under pressure and communicating with the cylinder at a point where it will conduct a lubricant to the upper peripheral surface of the piston, a valve in the conduit, means adjustable simultaneously with the carbureter adjusting means for opening the conduit valve upon a predetermined adjustment of the carbureter, and means for regulating the valve adjusting means whereby the valve may be caused to open at any selected predetermined speed of the engine as determined by the carbureter adjusting means.

1,693,789. COMBINATION TOOL FOR WELL-DRILLING OPERATIONS. GEORGE F. LE BUS, Electra, Tex. Filed July 17, 1924. Serial No. 726,601. 5 Claims. (Cl. 81—189.)

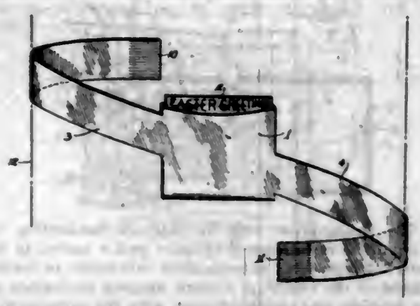


4. In a tool of the character described, a rotatable hollow tool body, a segmental diametrically expansible and contractible slip mounted and enclosed in said body, a plurality of cutting tools removably seated in recesses formed in said body below the said slip and having non-cutting portions engaging the lower edges of the slip segments, and spring means operating through said segments normally to position and maintain said tools in cutting position.

1,693,790. COMPOUND FUEL. PIERRE HENRI LEVÊQUE, Paris, France, assignor to Societe de Recherches et de Perfectionnements Industriels, Puteaux, Seine, France, a French Company. Filed Oct. 4, 1927, Serial No. 223,997, and in Germany Oct. 11, 1926. Renewed Oct. 12, 1928. 2 Claims. (Cl. 44—1.)

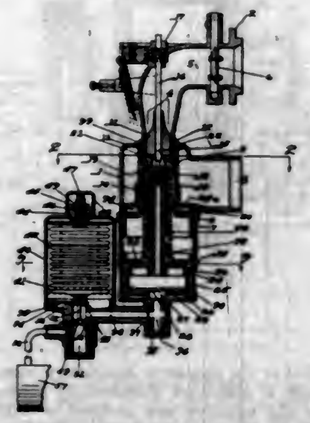
1. A process for forming a compound fuel consisting in oil purifying coal, incorporating pulverized close burning coal to the mixture of oil and coal obtained, pressing and finally distilling the product.

1,693,791. BAND ENVELOPE. LOUIS A. LIEBS, Woodhaven, N. Y., assignor to L. A. Liebs Company, Inc., New York, N. Y. Filed Nov. 17, 1927. Serial No. 233,966. 1 Claim. (Cl. 229—74.)



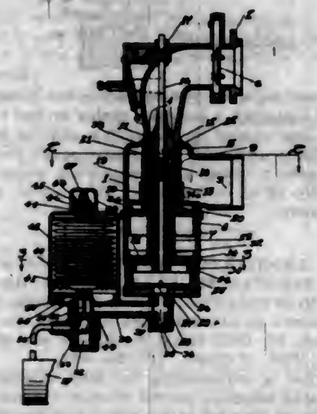
An envelope formed from a single piece of material, comprising a main body portion having upper and lower sections adapted to be brought into folded relationship, laterally extending tongue elements from the upper section for holding the lower section in interlocked relationship, and band members extending at any desired angle from the side edges of the upper section for the purpose of adjustment to an article.

1,693,792. CARBURETOR. NATHANIEL LOMBARD, Worcester, Mass., assignor to Lombard Carbureter Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed July 11, 1924, Serial No. 725,500. Divided and this application filed Nov. 16, 1925. Serial No. 69,422. 4 Claims. (Cl. 261—72.)



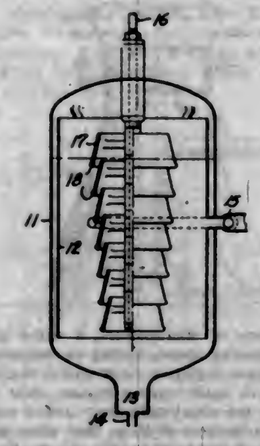
1. In a carburetor of the type that lifts liquid fuel from a source below the level of the fuel nozzle, a Venturi passage, a fuel entrance port opening into said Venturi passage at approximately the point of greatest speed of flow of air, thus creating a suction on the fuel which is greater than the vacuum created by the associated engine on the carburetor side of the throttle valve, a fuel line, including suitable connections, connecting said port to the fuel supply, a valve in said fuel line, a pressure responsive device to operate said valve, the said pressure responsive device being actuated and controlled by the suction created in the aforesaid fuel entrance port opening into the said venturi, whereby the valve controlled by the device moves to admit more or less fuel responsive to the changing engine suction and the magnification thereof caused by the entrance port opening into the said venturi, a member in said venturi, and air pressure means for moving said member in relation to the walls of said venturi, said air pressure means being operated by the suction created by the associated engine, whereby to vary the cross sectional area of said venturi where said fuel port opens thereinto, thus preventing excessive action and reaction of the pressure responsive device controlled valve responsive to changes in the demand for fuel by reason of variation of speed of the associated engine and changes in the position of the main throttle valve.

1,693,793. CARBURETOR. NATHANIEL LOMBARD, Worcester, Mass., assignor to Lombard Carbureter Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 11, 1924, Serial No. 725,500. Renewed Dec. 17, 1927. 4 Claims. (Cl. 158—36.1.)



1. In a carburetor, a supply chamber for liquid fuel, a valve for controlling the admission of fuel to said chamber, a flat spring in a plane substantially perpendicular to the movement of said valve for holding said valve in its closed position and for substantially preventing sidewise vibration of said valve, and an expansible diaphragm located within said chamber, said diaphragm being provided with a seat adapted to engage a portion of said valve upon downward movement of the diaphragm, thereby also substantially preventing sidewise movement of said diaphragm when the seat and valve are in engagement.

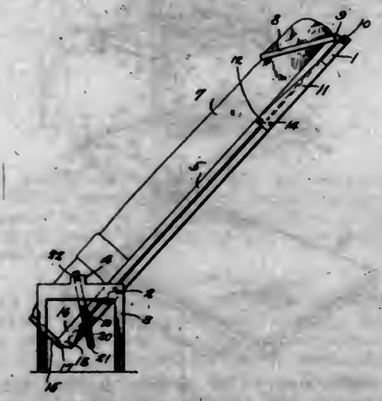
1,693,794. ELECTRODE. HOWARD W. MATHESON and JULIAN C. SMITH, Montreal, Quebec, Canada. Filed Aug. 23, 1924, Serial No. 733,721. 11 Claims. (Cl. 219—40.)



9. An electrode for water resistance steam generators for use within a complementary member comprising a hollow inverted frusto-conical electrode body constituting an upwardly enlarging steam conduit within a tubular discharge zone, and means for directing steam from the discharge zone into the conduit.

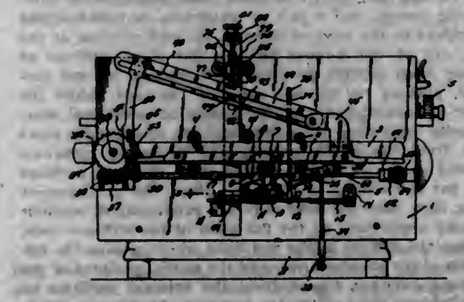


1,693,795. FOLDING BED. FRANK R. MOORE, Grand Junction, Colo. Filed Nov. 15, 1927. Serial No. 233,468. 3 Claims. (Cl. 5—146.)



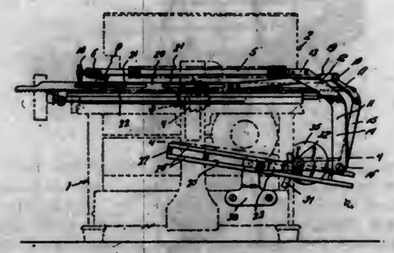
1. In a device of the class described, a support, a main frame pivoted to the support, an auxiliary frame having means for supporting a bedding, an end member, means for pivotally connecting the end member with the main frame, means for pivotally connecting the end member with the auxiliary frame, the end member being tiltable to constitute a bedding grip, the auxiliary frame being movable longitudinally of the main frame to cause the end member to grip the bedding, a bell crank lever fulcrumed on the main frame and pivoted to the auxiliary frame, and a radius arm mounted to swing on the support, the bell crank lever having limited sliding connection with the radius arm, whereby the radius arm will tilt the lever, move the auxiliary frame longitudinally of the main frame, and move the end member out of bedding-gripping position when the main and auxiliary frames have been swung downwardly to a predetermined point.

1,693,796. SPACE-GRADUATING MECHANISM FOR TYPEWRITERS AND THE LIKE. KENNETH C. O'BRYAN and JAMES WILLIAM O'BRYAN, Washington, D. C. Filed Oct. 14, 1925. Serial No. 62,448. 14 Claims. (Cl. 197—84.)



4. In a typewriter having a carriage, normally operated in one direction, and escapement mechanism controlling movement of the carriage, a carrier mounted independently of and movable with the carriage and connected for direct movement with the escapement mechanism, and space graduating means providing an adjustable connection between the carrier and carriage and carried by the former for controlling the movement of the carriage in a predetermined ratio with respect to the escapement.

1,693,797. MEANS FOR GRADUATING CHARACTER SPACING IN A TYPEWRITER. KENNETH C. O'BRYAN and JAMES W. O'BRYAN, Washington, D. C. Filed Apr. 15, 1926. Serial No. 102,209. 3 Claims. (Cl. 197—84.)



1. In a line spacing graduating attachment for typewriters comprising in combination, a typewriter frame having its carriage operatively mounted thereon and an escapement mechanism operable to control the movement of the carriage, movable means mounted on the carriage forming a single direct connection between the same and the escapement mechanism for transmitting motion of said mechanism to the carriage, a control member pivotally mounted on the frame and connected with the movable means, adapted to vary the ratio of movement between the carriage and escapement mechanism either to increase or decrease the same, adjustable means to vary the position of the control member and a position indicator for said control member operable through the adjustable means.

1,693,798. AMUSEMENT DEVICE. JOHN J. SCHMID, Louisville, Ky. Filed Sept. 21, 1925. Serial No. 57,567. 4 Claims. (Cl. 104—149.)



1. In a device of the class described the combination of an endless rail and a second rail comprising sections electrically insulated from the first rail and from one another, a source of electrical energy controllable to provide independent electrical circuits with the first rail and several of the sections of the second rail, one of said sections being free of connection with the source of electrical energy, a vehicle having wheels of electricity conducting material insulated from one another and adapted to contact with the rails, and an electric motor carried by the vehicle and having electrical connection with the wheels.

**1,693,799. COMBINED CORSET AND BRASSIÈRE.** LILLIAN E. SCOFIELD, New York, N. Y. Filed Nov. 24, 1925. Serial No. 71,252. 6 Claims. (Cl. 2—30.)



3. An undergarment comprising an anterior cloth member adapted to fit against the stomach of the wearer, diagonal side cloth members attached to each side of the anterior member and extending upwardly and rearwardly therefrom, diagonal elastic bands extending downwardly and rearwardly from said side members, diagonal hip cloth members extending downwardly and rearwardly from said elastic bands, and garters extending downwardly and diagonally from the said hip members, an elastic band connecting the hip members across the back below the waist, diagonal upper elastic members above the waist line, a cloth shoulder member uniting the upper elastic members, a brassière attached to the top of the anterior member, and shoulder straps connecting the top of the brassière to the shoulder member.

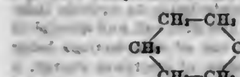
**1,693,800. ANNEALING PROCESS.** JOHN B. TITUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed May 1, 1923. Serial No. 635,985. 3 Claims. (Cl. 148—4.)



1. In a metal heat treating process those steps which consist in rolling a body of metal which, when rolled to the gauge required by a given order, will have a length which is in excess of the ordered length by an amount sufficient to allow for terminal irregularities necessarily incident to the rolling process, then uniting the individual sheets end for end utilizing the said excess, so as to leave between each union a body of metal of the length required by the said given order, passing the continuous band so provided through a heating chamber, and finally cutting away the zones of union, leaving individual pieces of the said required length.

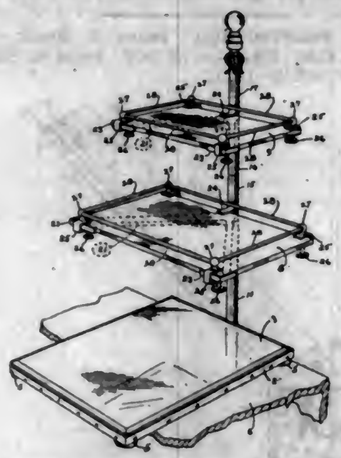
**1,693,801. CYCLOHEXYL-SUBSTITUTED ALIPHATIC ACIDS.** ROGER ADAMS and GLEN SEXTON HIERS, Urbana, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a Corporation of Illinois. Filed July 24, 1926. Serial No. 124,775. 4 Claims. (Cl. 260—112.)

1. New compounds of the formula—



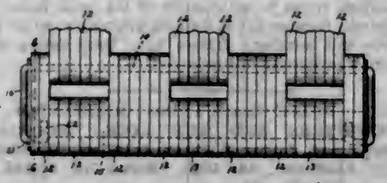
in which Y represents hydrogen, a halogen, or hydroxyl, $e$ represents 3 or more, and Z represents hydrogen, alkyl or a metallic element.

**1,693,802. DISPLAY STAND.** GEORGE S. BAILEY, San Francisco, Calif., assignor to James M. Bailey, San Francisco, Calif. Filed Sept. 20, 1926. Serial No. 136,449. 2 Claims. (Cl. 211—137.)



1. A display stand of the character described comprising a horizontal base, a vertical post carried at one side thereof, a plurality of vertically spaced shelves supported on the post overhanging said base and independently revolvable around said post, said post being formed of a plurality of inner and outer telescopic tubular sections being so spaced that the inner and outer joints of the telescopic sections do not coincide and bracket arms adapted to carry said shelves attached to certain outer telescopic sections.

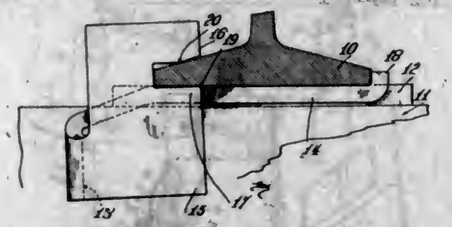
**1,693,803. LINK MAT.** WILLIAM T. BELL, Concord, N. H. Filed Jan. 19, 1925. Serial No. 3,295. 3 Claims. (Cl. 15—239.)



1. A link mat which includes links arranged in overlapping groups, and a pair of transverse tie-rods inserted in orifices in the rows of links at the end portions of the mat, one of the tie-rods being a flat sided stiffener of oblong cross section, provided with slots in its end portions, opening on the flat sides of the rods, while the other rod constitutes a pintle portion of cylindrical wire, hingedly connecting other rows of links, and angular arms bent from the pintle portion and including terminals parallel with and secured in said slots, said end portions and flat sides being in the same plane, the arrangement being such that the said rods are interengaged, without forming projections on the flat sides of the stiffener rods, so that the orifices in the end links which receive the terminals of the angular arms, and the slotted portions of the stiffener rod, are spaced from the external surfaces of said links by wear-sustaining portions of maximum thickness, and free from liability to be worn through from their external surfaces.

**1,693,804. RAIL ANCHOR.** ROLANDUS A. BLAIR, Fort Wayne, Ind. Filed Dec. 9, 1927. Serial No. 238,818. 23 Claims. (Cl. 238—330.)

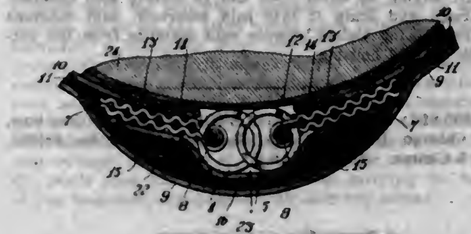
21. A rail anchor comprising in combination a sheet metal plate, two jaw members formed integrally with said plate and turned at an angle with respect thereto into spaced relation to each other converging toward the plate, notches in the edges of said members providing jaws for engaging the top and bottom faces of the flange of the rail,



and a resilient arm connected with said plate and provided with an upturned portion at its free end adapted by engagement with the edge of the flange at the opposite side of the rail to hold said jaws in tight gripping engagement with the rail.

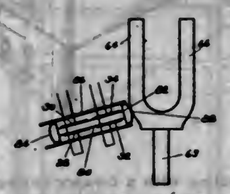


**1,693,805. FASTENER-COVERING METHOD AND MEANS.** CHARLES E. BRADLEY and GEORGE L. VAN DINTER, Mishawaka, Ind., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed June 12, 1925. Serial No. 36,587. 28 Claims. (Cl. 24—205.)



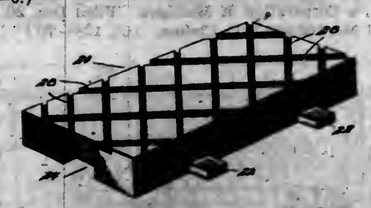
1. The combination with a pair of separable parts and a fastening device for connecting same, of a member consisting of elastic material slitted to form separable portions which operate simultaneously with the fastening of said device, so as to cover the latter.

**1,693,806. ELECTROMECHANICAL SYSTEM.** WALTER G. CADY, Middletown, Conn., assignor to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 28, 1925. Serial No. 12,463. 34 Claims. (Cl. 181—0.5.)



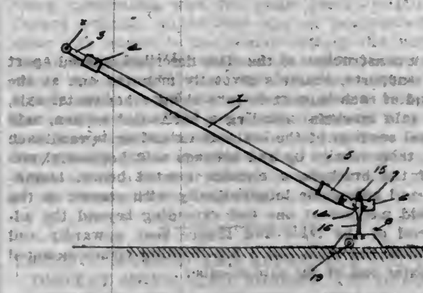
34. A vibrating system having, in combination, a tuning fork and two electro-mechanical vibrators so constructed and arranged that the tuning fork shall vibrate when one of the electro-mechanical vibrators vibrates and so that the other electro-mechanical vibrator shall vibrate when the tuning fork vibrates, the said one electro-mechanical vibrator being adapted to vibrate mechanically when stimulated electrically and the said other electro-mechanical vibrator being adapted to respond electrically when vibrated mechanically, means for electrically stimulating the said one electro-mechanical vibrator, and means controlled by the said other electro-mechanical vibrator for controlling the stimulating means.

**1,693,807. ROAD.** LUKE H. CALLAN, Bristol, R. I. Filed Feb. 26, 1925. Serial No. 11,823. 13 Claims. (Cl. 94—6.)



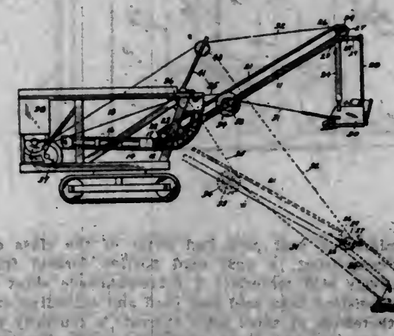
8. As a new article of manufacture, a hard rubber paving block having comparatively weak projections on one side and recesses on the opposite side thereof, said projections being of a substantially greater length than the length of said recesses but of a substantially lesser width.

**1,693,808. LAWN-EDGING IMPLEMENT.** FREDERIC N. CATUDAL, Newton, Iowa. Filed Apr. 19, 1927. Serial No. 184,938. 2 Claims. (Cl. 97—227.)



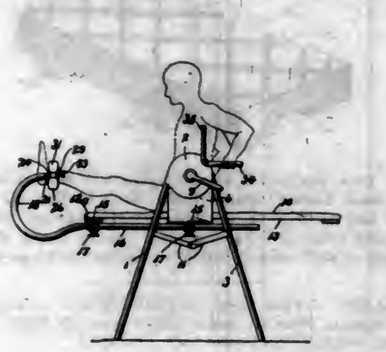
1. In a structure of the class described, a shaft, a handgrip fastened to the upper end thereof, a socket fastened to the lower end of the shaft, and equipped with a notched shank, an excavating and trimming shoe, and an attaching device therefor connected thereto and adjustably and slidably mounted upon said shank and provided with a set screw for selective reception in said notches.

**1,693,809. POWER SHOVEL OR EXCAVATOR.** BIRD C. CLUTTER, Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc., a Corporation of Ohio. Filed Jan. 4, 1926. Serial No. 79,069. 5 Claims. (Cl. 214—138.)



1. The combination with an excavator apparatus having a scoop-crowding rack extending forwardly on the frame thereof and a shaft having a gear meshed with said rack, of an excavator attachment pivoted on said shaft and a clevis adapted to be clamped over said gear and onto said rack, said clevis having teeth adapted to mesh with said gear and other teeth adapted to mesh with said rack to secure said shaft in any desired position on said rack.

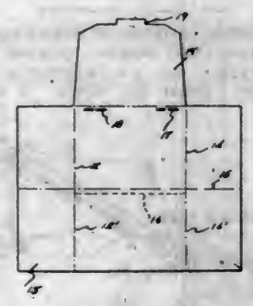
1,693,810. NEUROPATHIC HEALTH TABLE. MELVILLE DANIELS and A. J. WOOD, Grand Rapids, Mich., assignors to Daniels Health Table Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Dec. 20, 1926. Serial No. 156,023. 11 Claims. (Cl. 128—70.)



1. In a construction of the class described, spaced apart vertical supports, brackets pivotally mounted one at the upper end of each support to turn about a horizontal axis, each of said brackets including a horizontal section, said horizontal sections of the brackets extending toward each other, a table carried by and between said horizontal sections of the brackets, a member located below, lengthwise of and adjustable longitudinally with respect to the table, said member at one end extending beyond the adjacent end of the table and thence bent upwardly and back toward the table and a legs holding clamp mounted at the outer end of the said member.

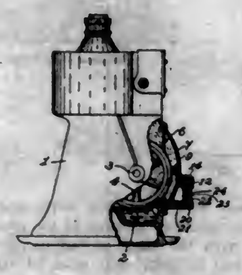
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1,693,811. COMBINATION POST CARD AND LETTER. EDMUND DZIUK, Detroit, Mich. Filed Dec. 26, 1925. Serial No. 77,798. 1 Claim. (Cl. 229—92.8.)



A combination post card and letter of the class described, comprising: a post card portion formed from comparatively stiff material; a correspondence sheet of larger dimensions than said post card and extending outwardly therefrom at three sides thereof; a centrally positioned flap on said sheet extending outwardly from said card at the remaining side thereof; means for securing said sheet to said card, said sheet being foldable upon itself to a less width than the width of said card, and said flap being foldable over said folded sheet; and a tongue on said flap adapted to be secured to one edge of said card for securing said flap in folded over relation to retain said sheet in folded condition.

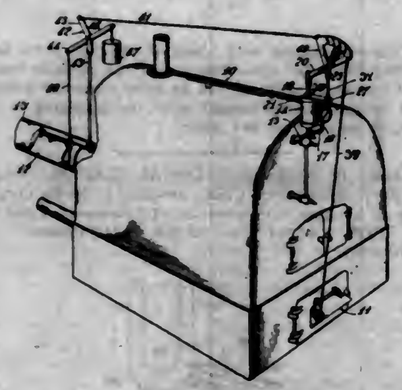
1,693,812. OILING INDICATOR. JAMES MCCOSH EDWARDS, Waterloo, Iowa, assignor to Iowa Dairy Separator Company, Waterloo, Iowa. Filed Mar. 8, 1926, Serial No. 93,197. Renewed Apr. 30, 1928. 4 Claims. (Cl. 184—13.)



1. In combination, a housing having a wall cavity and an open top liquid reservoir, a rotatable wheel in said housing adapted to engage liquid in said reservoir and discharge it into said wall cavity, a valve-controlled conduit for delivering liquid from said cavity outwardly and downwardly in a coherent vertical stream, and a conduit having an outer open end to receive said coherent stream and drain it into said reservoir, said coherent stream being visible between said conduits from the outside of said housing.

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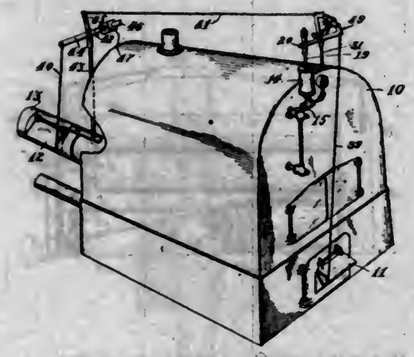
1,693,813. DRAFT REGULATOR. BARNEY GOODMAN, Chicago, Ill. Filed Feb. 13, 1926. Serial No. 88,032. 5 Claims. (Cl. 236—16.)



1. In combination with a furnace having a draft and a damper door, a cylinder communicating with a variable pressure source, a piston mounted for reciprocation therein, a piston rod thereon, said piston being arranged to move in response to a pressure change, an adjustable support adjacent said cylinder, a lever pivotally mounted on said support and operatively associated with said piston rod, a calibrated element mounted on said support adjacent the said lever and rotatable about the same axis as said lever and relative thereto, means carried by said lever at one end thereof for detachably and adjustably connecting it to the said calibrated means, and mechanism for operatively connecting said calibrated means with said doors whereby a pressure change will effect a different setting of said doors.



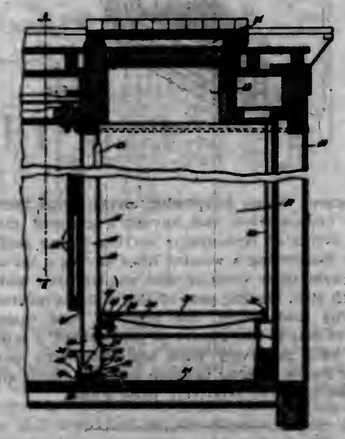
1,693,814. DRAFT REGULATOR. BARNEY GOODMAN, Chicago, Ill. Filed Dec. 7, 1927. Serial No. 238,853. 7 Claims. (Cl. 236—16.)



1. In a device of the class described, the combination with a fire draft closure and a flue damper closure, of pressure operated means, a pivotally mounted regulator having ratchet teeth, a pivotally mounted transmitting lever operatively connecting said pressure operated means and said regulating means, flexible means connecting the closures with the regulator arranged so that one of said closures closes as the other opens upon rotation of said regulator, a balancing lever pivotally mounted on the transmitting means, trip means in the path of the balancing lever, two pawls, one mounted on the transmitting lever and the other on the balancing lever, both engaging said ratchet teeth whereby upon fluctuation of the pressure applied to the pressure operated means a step by step advance movement is imparted to the regulator by the pawls upon the transmitting lever carrying the balancing lever into engagement with said trip means.

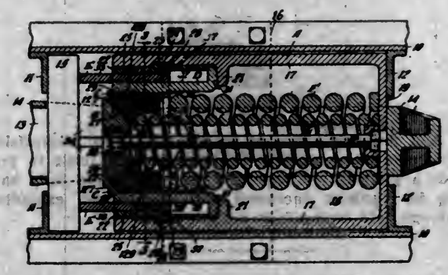
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1,693,815. REFRIGERATOR CAR. GEORGE A. HULL, Chicago, Ill., assignor to Equipment Specialties Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1927. Serial No. 175,401. 11 Claims. (Cl. 62—19.)



1. In a refrigerator car, a ventilating wall comprising a plurality of channelled metal sections having a plurality of spaced parallel slits in their webs with substantially all of the metal strips between said slits bent at right angles to said web to form a ventilating grille.

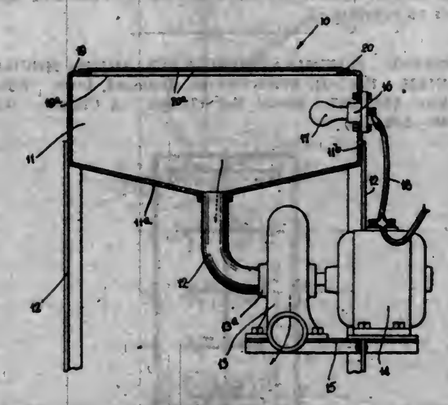
1,693,816. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Nov. 4, 1927. Serial No. 230,942. 6 Claims. (Cl. 213—22.)



1. In a friction shock absorbing mechanism, the combination with a column element having longitudinally disposed friction surfaces; of a wedge block; friction shoes, cooperating with the wedge block; relatively stationary friction plates held against longitudinal movement with respect to the column element and having frictional engagement with the shoes; movable friction elements interposed between the friction surfaces of the column element and the stationary plates, said movable elements having their outer ends normally projected beyond the wedge to receive the actuating force during the first part of the compression stroke; and separate spring resistance means respectively opposing inward movement of the shoes and movable friction elements.

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1,693,817. METHOD AND APPARATUS FOR MAKING DISPLAY SIGNS, LAMP SHADES, AND OTHER LIKE ARTICLES. WILLIAM E. PRICE, White Plains, N. Y. Filed Apr. 30, 1926. Serial No. 105,664. 18 Claims. (Cl. 40—133.)



1. The art of making a sign or like article consisting in superimposing a flexible sheet of material on one side of a perforated plate, and applying sufficient suction to the other side of said plate to cause portions of said material over plate perforations to be drawn therethrough whereby raised protuberances are formed.

12. An apparatus of the character described comprising a box having an opening on which a perforated plate and flexible strip to be assembled is adapted to be mounted, said plate and strip forming a closure for said opening, and suction means for reducing the air pressure inside said box, whereby portions of the strip are projected through said perforated plate.

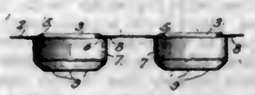
1,693,818. DETONATING FIREWORK. HANS REIHLEN, Karlsruhe, Baden, Germany, assignor to Milton M. Adler, Newark, N. J. Filed Sept. 21, 1927. Serial No. 220,897. 7 Claims. (Cl. 102—20.)



1. A firework device of the kind described, comprising a tubular casing folded transversely upon itself to provide a plurality of connected sections, and a body having its surfaces encrusted with gun-powder extending through said casing from section to section.

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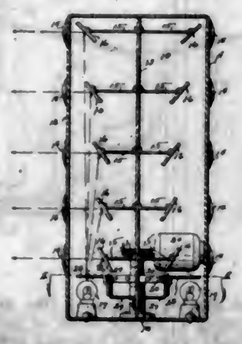
1,693,819. CONTAINER. HENRY J. SCHAFFER, Brooklyn, N. Y., assignor to Jacob Schaffer, Brooklyn, N. Y. Filed Jan. 14, 1925. Serial No. 2,264. 10 Claims. (Cl. 220—94.)



1. A container, having sheet metal walls with spaced apertures therein, said apertures each being larger in diameter than the diameter of any of a person's fingers, with the spacing between the apertures such as to permit of the insertion into the apertures of the fingers of one's hand to enable one to lift the apertured wall, the portion of the wall bordering each aperture being raised upwardly slightly and rolled inwardly and backwardly to provide a bead defining each aperture, and individual sheet metal cups, each of greater diameter than the diameter of any of a person's fingers, flanged at their open edges and secured against the inner face of the apertured wall over an aperture.

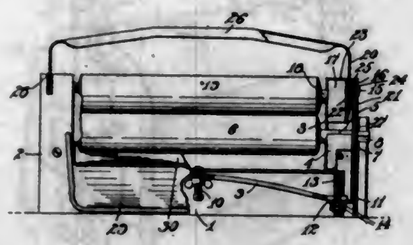
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1,693,820. ILLUMINATED-SIGN FLASHING MECHANISM. PAUL H. SCHNORMEIER, Hubbard, Iowa. Filed Mar. 18, 1927. Serial No. 176,561. 3 Claims. (Cl. 40—133.)



1. In a device of the class described, a housing having openings in its side, a lamp in said housing, reflector plates in said housing for reflecting light from said lamp through said openings, an endless belt rotatably mounted in said housing, blinds secured to said endless belt and capable of passing between the lamp and reflector plates when the belt is rotated, guide members in said housing in engagement with said blinds, and a prime mover in operative engagement with said belt.

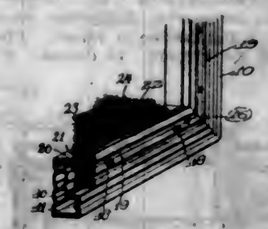
1,693,821. WRINGER. SIMON E. SCHRODER, Newton, Ind. Filed Feb. 28, 1927. Serial No. 171,491. 4 Claims. (Cl. 68—32.)



1. In a clothes wringer in combination, a frame, a lower roll mounted therein, an upper roll mounted therein and movable relatively to the lower roll, pivot members connected to the upper roll, pressure applying means mounted in said frame below said lower roll, connector members connected to said pressure applying means and having engaging lugs, and swingable members pivotally mounted on said pivot members and having engaging lugs arranged to engage the lugs on said connector members when the swingable members are swung into vertical alignment with the shafts of the wringer rolls.

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1,693,822. SCREEN. CHARLES A. SHOGREN, Chicago, Ill., assignor, by mesne assignments, to Art Metal Screen and Weather Strip Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 18, 1926. Serial No. 81,893. 5 Claims. (Cl. 156—14.)



1. A screen frame comprising metal strips bent to rectangular cross-section and having a grooved rabbet, removable strips of rectangular section fitting said rabbet, and each comprising a wooden filler having a metal casing bent to cover three sides of said wooden filler and part of the fourth side, leaving part of the wood uncovered on the side facing said rabbet, the edges of said casing being adapted to seat in the groove of said rabbet, a wire screen between said relatively fixed and removable parts, and fastening means passing through said removable strips and said screen into the relatively fixed frame.

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1,693,823. DRILL CHUCK. WILLIAM SHORB, Minneapolis, Minn. Filed Sept. 11, 1924. Serial No. 737,066. 7 Claims. (Cl. 279—14.)

1. A drill chuck comprising a substantially cylindrical body member, a revoluble cylinder having an eccentrically located drill socket disposed longitudinally of said cylinder, means by which said cylinder may be turned, and stop means on said body engageable by said first mentioned means to limit the movement of said cylinder, whereby

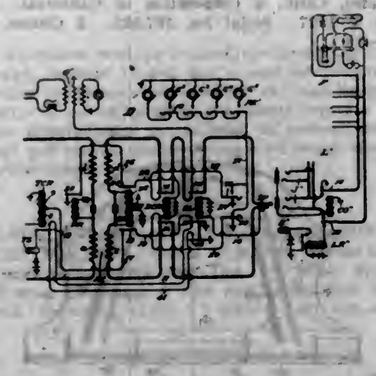




said cylinder will be disposed in position to hold a drill substantially in axial alignment with said body member when said stop means is engaged.

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1,693,824. TELEPHONE SYSTEM. MICHAEL B. STAZAK, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 10, 1926. Serial No. 107,928. 10 Claims. (Cl. 179—41.)



2. In a telephone system, an operator's cord circuit, a plug ended trunk circuit at another operator's position, connection means for said cord and trunk for connecting said cord to said trunk, a telephone line, said plug ended trunk adapted to be connected to said line, ringing current means for said trunk set by the trunk operator but not connected to said line, means for said cord circuit actuated by said operator of said cord circuit to operate means in said trunk to connect said ringing current means set by said trunk operator to the called line, and means in said trunk circuit controlled over said telephone line for discontinuing the application of ringing current to the called line.

1,693,825. RESISTANCE UNIT. ERWIN R. STOEKLE, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 26, 1925. Serial No. 18,389. 5 Claims. (Cl. 201—63.)



2. A resistance unit comprising a winding of predetermined resistance, the coils of said winding being embedded in a resistance material consisting of substantially equal parts of a metallic substance and an enamel composed of red lead, zinc oxide, raw kaolin and boric acid.

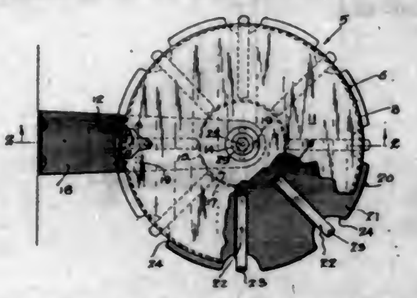
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1,693,826. NECKWEAR HOLDER. LOUIS STOLTENBERG, Oakland, Calif. Filed Sept. 6, 1927. Serial No. 217,591. 2 Claims. (Cl. 211—89.)



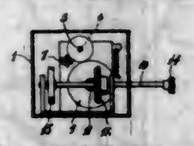
1. An article of the class described, comprising a wire-supporting-frame adapted for revoluble mounting upon a suitable object and consisting of an upright member having a necktie holder rigidly mounted at its lower end and embodying a ring having a plurality of radially disposed supporting arms forming holders, said arms consisting of a single looped strand the inner sections of which are "spot welded" to the upper face of said ring and having their outer looped ends bent downwardly, and spring clips consisting of single wires having their inner ends "spot welded" to said ring between the extremities of said looped holders and their outer ends bent in opposition to the downwardly bent sections of said holders and adapted to coact therewith in holding articles securely in place upon said holders.

1,693,827. COMBINATION COLLAR BOX AND NECK WEAR HOLDER. LOUIS STOLTENBERG, Oakland, Calif. Filed Sept. 6, 1927. Serial No. 217,502. 2 Claims. (Cl. 211—89.)



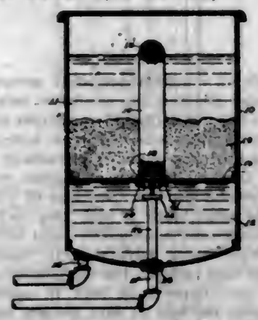
1. An article of the class described, comprising a rigid support adapted for mounting upon any suitable object, a centrally disposed spindle carried by said support and having a head formed at its lower end, a revoluble member mounted upon said spindle and consisting of a metal disc, a plurality of radially arranged spring clips formed in said disc and terminating slightly below the edge thereof and having their extremities lying in a plane substantially paralleling that of the under face of the disc, and said disc having notches formed in its edge at points adjacent to said clip extremities to provide access to said clips for the purpose of releasing articles retained thereby.

1,693,828. AUTOMOBILE SERVICE INDICATOR. JOHN PERCY STEVENS, Long Beach, and GEORGE A. C. BAILEY, Los Angeles, Calif.; said Bailey assignor to Louise Parenteau, Los Angeles, Calif. Filed June 18, 1927. Serial No. 199,647. 4 Claims. (Cl. 40—68.)



1. An automobile service indicator comprising a casing, a face plate on the casing, a plurality of numbered discs journaled in the casing, a friction wheel, a friction drive wheel, a shaft journaled in the casing, a balance wheel on the shaft, and gear means connecting said shaft and said friction drive wheel whereby said numbered discs are rotated, said numbered discs being visible under a legend on said face plate.

1,693,829. BRINE TANK FOR WATER SOFTENERS. ORLAND RUSSELL SWEENEY, Ames, Iowa, assignor to Ward-Love Pump Corporation, Rockford, Ill., a Corporation of Illinois. Filed Sept. 9, 1926. Serial No. 134,342. 31 Claims. (Cl. 210—24.)



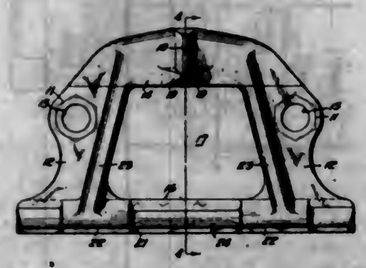
1. In a water softener installation, the combination with a water softener tank, of a brine tank having a top salt compartment and a bottom brine compartment normally in communication, a pipe leading from the latter compartment thereof, a drain outlet at a predetermined level near the level of the top of said salt compartment, and means normally serving to control communication between the softener and brine tanks, said means being adapted for opening communication between said pipe and said drain outlet to lower the level of water in said brine tank to the predetermined level of said outlet for the purpose described.

1,693,830. BOTTLE CAP. JOSEPH TRISKA, Omaha, Nebr. Filed May 3, 1928. Serial No. 274,834. 4 Claims. (Cl. 215—87.)



1. In a bottle-cap of the class described, a metal plate having downwardly extending side-flanges adapted to straddle the bead of a bottle-neck, and having at one end a tongue adapted to extend beneath said bead, a key-shaft mounted rotatably and extending transversely between said side-flanges at the end opposite said tongue and having a bowed intermediate portion adapted to engage the neck-bead, and means for retaining the key-shaft in adjusted positions.

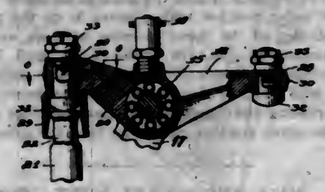
1,693,831. ICE GROUSER SHOE. WILLIAM TURNBULL, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif., a Corporation of California. Filed June 8, 1927. Serial No. 197,328. 3 Claims. (Cl. 305—10.)



3. An ice grouser shoe comprising a pair of pads, each of said pads having an aperture therein, a pair of transverse bars joining said pads and enclosing therewith a central opening, a reinforcing web on each of said pads connecting said bars, a longitudinal flange on one of said bars, supporting shoulders for said flange, a transverse flange on the other of said bars, and enlargements on said flange adjacent said webs.

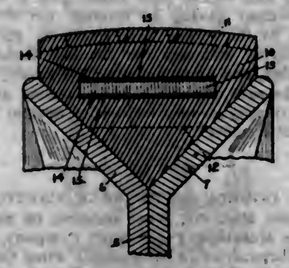


1,693,832. INTERNAL-COMBUSTION ENGINE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Apr. 18, 1922. Serial No. 553,054. 11 Claims. (Cl. 123—90.)



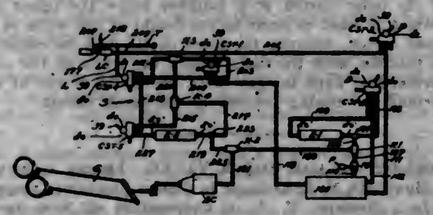
2. In an engine, a cylinder having a plurality of ports therein, valves arranged to normally close said ports, a rocker lever arranged to simultaneously open and close said valves having a plurality of spaced parallel valve-engaging arms normal thereto and an operating arm arranged centrally of the valve-engaging arms and extending in the opposite direction.

1,693,833. BAND FOR USE WITH TRACTORS OR THE LIKE. GEORGE I. WORLEY, Akron, Ohio. Filed Sept. 24, 1925. Serial No. 58,306. 5 Claims. (Cl. 305—10.)



2. An endless band for tractors, the band being composed of tough, resilient rubber, and a cord reinforcement embedded in the rubber at the center of the band comprising a plurality of cotton cords placed closely together and arranged longitudinally of the band to prevent elongation thereof and breaker strips arranged on either side of the said reinforcement.

1,693,834. BRAKE AND DOOR CONTROL FOR AUTOMOTIVE BUSSES. RUFUS W. BAILEY, Kansas City, Mo. Original application filed Dec. 15, 1924, Serial No. 755,901. Divided and this application filed July 24, 1925. Serial No. 45,771. 7 Claims. (Cl. 303—6.1.)



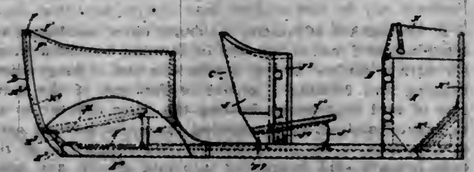
3. The pneumatic control for vehicles comprising means under a driver's control, means under a conductor's control, means under a street collector's control, means under passengers' control adapted to open an exit, said exit being adapted to be re-closed only when all of said means are reset for closing, means for dispensing with the conductor's control and the street collector's control, without changing the structure of the system or the effectiveness under the remaining controls, and a pneumatic brake system interlocked with the door controlling means, operable to be set whenever a passenger is positioned to alight from the coach and the exit is open, irrespective of the driver's intentions regarding the setting or releasing of the vehicle brakes.

1,693,835. FASTENER COVERING AND METHOD OF MAKING SAME. CHARLES E. BRADLEY and GEORGE L. VAN DINTER, Mishawaka, Ind., assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind., a Corporation of Indiana. Filed Sept. 3, 1927. Serial No. 217,522. 18 Claims. (Cl. 24—205.)



1. The combination of separable parts and a fastening device for connecting same, said parts being provided with extended edge portions adapted to be brought together in edgewise abutting relation in the operation of said fastener so as to cover the latter, said extended edge portions being formed of material crowded into a space of less width than the width of said material in its normal relaxed condition, to afford extra fullness along and transverse to the line of separation and thereby effect a snug abutting of the edges when the parts are fastened together.

1,693,836. VEHICLE BODY. PAUL E. BRENEMAN, Detroit, Mich., assignor to C. R. Wilson Body Company, Detroit, Mich., a Corporation of Michigan. Filed May 21, 1920. Serial No. 383,299. 21 Claims. (Cl. 296—28.)



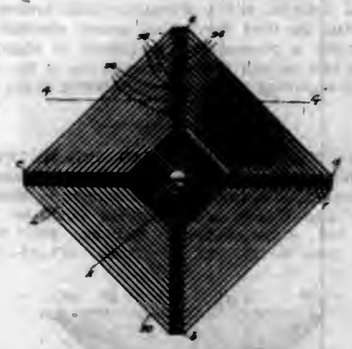
1. In a vehicle body, a base unit comprising a pair of side sill members having their outer edges conforming to the contour of the body and their inner edges parallel to the longitudinal axis of the body, cross members connecting said sills and forming supports for super-sections of the body, and depressed flanges on the portions of said sills between said cross members for supporting the floor boards.

20. In a vehicle body, the combination with a panel having a depressed portion constituting a wheel housing, an inwardly extending flange constituting the top rail, and a brace secured to the inner face of the depressed portion and having a portion engaging the inwardly extending flange aforesaid.

1,693,837. COIL. HIRAM D. CURRIER, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1924. Serial No. 745,750. 8 Claims. (Cl. 175—359.)

1. A coil of the character described comprising spaced convolutions of wire wound in spaced layers, a core

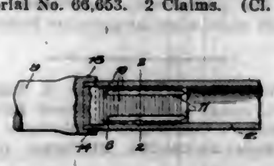
provided with diametrically opposite angular faces, strips superimposed upon said diametrically opposite angular faces of said core to form arms for supporting said convolutions, certain of said strips having longitudinal orifices for supporting taps from said convolutions of wire,



slots in both faces of said superimposed strips in matched relation forming means for maintaining said convolutions in spaced relation, said convolutions producing a binding effect to make said superimposed strips which form said arms self-sustaining.

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1,693,838. METHOD OF MAKING SHAFTS, CONNECTING RODS, AND THE LIKE. FRITZ FAUDI, Dusseldorf-Oberkassel, Germany. Original application filed Mar. 10, 1924, Serial No. 698,054, and in Germany July 4, 1922. Divided and this application filed Nov. 3, 1925. Serial No. 66,653. 2 Claims. (Cl. 29—148.)



1. The method of jointing a tubular outer member to an inner member, which consists in forming an inner member with a surface having depressions and a flange overhanging and forming a groove beyond one of the margins of said depressions, heating the outer member so as to expand and soften it, passing the outer member over said surface of the inner member and fitting one of its ends beneath said flange and into said groove, and compressing and forcing the material of the heat softened outer member into the depressions of the inner member, and the flange of said inner member over the end of the outer member fitted in said groove.

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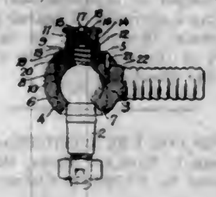
1,693,839. METHOD OF JOINTING TUBULAR MEMBERS. FRITZ FAUDI, Dusseldorf-Oberkassel, Germany. Original applications filed Mar. 10, 1924, Serial No. 698,054, and Nov. 3, 1925, Serial No. 66,653, and in Germany July 4, 1922. Divided and this application filed Dec. 20, 1926. Serial No. 156,040. 4 Claims. (Cl. 29—148.)



1. The method of jointing an outer tubular member to an inner member, which consists in forming the inner member with two portions of different diameters, the one of lesser diameter having surface depressions and being of a cross-section slightly larger than the inner cross-section of the tubular outer member and the one of greater diameter having an annular flange surrounding and forming a groove between it and the portion of lesser diameter, fitting the outer member with a press fit on the portion of lesser diameter of the inner member with an end portion thereof projecting beneath said flange and into said groove, pressing portions of the wall of the outer member into the said surface depressions of the inner member, and compressing the flange of the inner member about the edge of the outer member extending into the groove.

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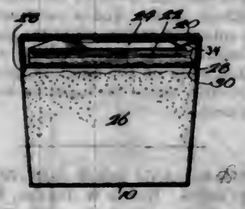
1,693,840. BALL AND SOCKET JOINT. FRITZ FAUDI, Dusseldorf-Oberkassel, Germany. Filed Apr. 14, 1927, Serial No. 183,676, and in Germany Nov. 15, 1926. 5 Claims. (Cl. 287—90.)



1. A ball and socket joint comprising a ball member, a socket member having an internal flat shoulder at a right angle to the socket wall, relatively stationary and movable bearing members for the ball member in said socket member, and a cap engaging the socket member and enclosing the said movable bearing member and clamping the said stationary member in position against the shoulder in the socket member.

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1,693,841. DOUBLE-RECEPTACLE CARTON. GEORGE S. GAYLORD, Menasha, Wis., assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis., a Corporation of Wisconsin. Filed Oct. 10, 1925. Serial No. 61,856. 6 Claims. (Cl. 206—47.)

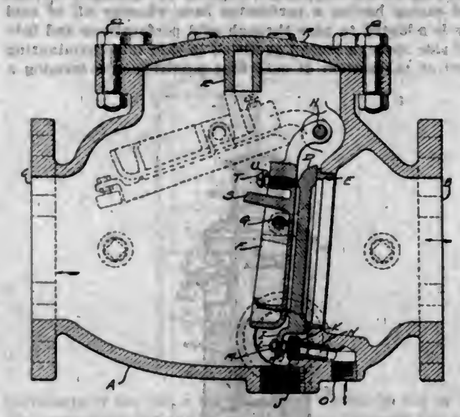


5. In combination, a pair of open top cartons of flexible material, each including a bottom and four walls, one of said cartons being of less depth than the other and insertable therein, ledges embossed inwardly in the walls of the outer carton at a distance below the upper edge thereof at least as great as the height of the walls of the inner carton, whereby the inner carton may be supported in position with its walls within the walls of the outer carton, and flaps integral with the walls of one of said cartons for closing the top of the inner carton.

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1,693,842. ALARM CHECK VALVE. LESTER A. GRIMES, Montclair, N. J., assignor to Grimes Sprinkler Company, Inc., Newark, N. J., a Corporation of New Jersey. Filed July 17, 1925. Serial No. 44,221. 1 Claim. (Cl. 277—20.)

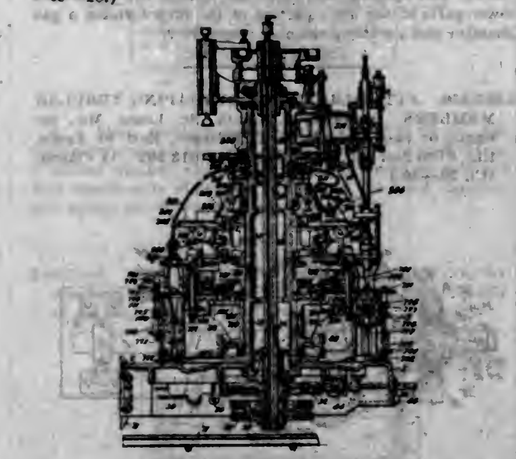
In an alarm check valve, a casing, a lever pivoted therein, a main valve, a connection between said lever and said valve at a point intermediate the pivot of the former and the center of the latter, and an auxiliary valve comprising an adjustable stem carried by said main valve and



yielding means supported by said stem, said auxiliary valve in operation having initially a delayed opening movement with respect to said main valve and thereafter a movement in unison therewith.

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1,693,843. GLASS-BLOWING MACHINE. MAX JAEGER, Long Island City, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Original application filed Apr. 17, 1922, Serial No. 553,900. Divided and this application filed Aug. 6, 1924. Serial No. 730,389. 31 Claims. (Cl. 49—18.)



5. In a machine of the class described, a wind chest comprising a pair of relatively movable walls, and a spring pressed gasket for minimizing leakage between said walls, the various elements of said spring pressed gasket being separate from said walls.

14. In a glass machine, a rack, a spring biasing said rack in one position, a cam adapted to move said rack in opposition to said spring, a pinion engaged by said rack, an arm attached to said pinion, and a blow-head carried by said arm.

28. A glass machine comprising a continuously rotating mold table, a plurality of split molds on said mold table, a blow-head for each of said molds, a solid ring mold movable with respect to said blow-head and a split ring mold for each of said molds, said blow-heads being operable to blow air through said solid ring molds, and a cam for moving said solid ring mold vertically.



1,693,844. LOCK FOR IGNITION AND LIGHTING SWITCHES. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,667. 24 Claims. (Cl. 70—46.)



1. A device including a face plate, a cylinder lock having a barrel portion and a case, a projection extending from one end of said barrel portion, said projection constructed to be received in an orifice formed in the face plate, a supporting plate provided with a recess, and a pin extending from the case of the cylinder lock into the said supporting plate for preventing rotation of said cylinder lock, said recess forming a bearing for one end of said cylinder lock.

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1,693,845. REMOVABLE DENTAL BRIDGEWORK. EDWARD KELLNER and WALTER M. GOLDWYN, New York, N. Y. Filed Aug. 16, 1927. Serial No. 213,258. 5 Claims. (Cl. 32—12.)



1. An attachment for supporting and retaining removable dental bridgework in position comprising detachable interlocking members, one of said members being triangular shape and forming a flat-sided socket acutely tapered lengthwise and of rectangular cross-section, said member being adapted to be embedded in an abutting natural tooth with the widest and deepest end of the member positioned in the crown of the tooth and the pointed thin end extending toward the tooth cervix to avoid excessive mutilation of the tooth structure and to eliminate possible ill effects to sensitive parts of the tooth.

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1,693,846. ATTACHMENT OF FACE PLATES. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed July 13, 1925. Serial No. 43,281. 4 Claims. (Cl. 30—10.)



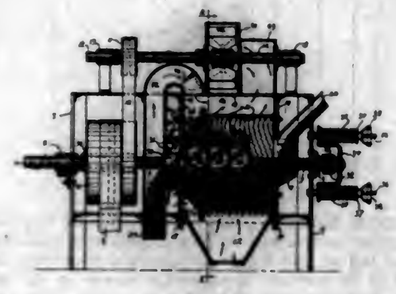
1. Face plate attaching means for articles of cutlery including bevelled edge side plates, metal face plates adapted to cover said side plates, and inwardly turned side walls adapted to engage said bevelled edges to provide a recess to the blade to permit easy withdrawal of the same.

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1,693,847. MACHINE FOR DECORTICATING, SCOURING, AND POLISHING CEREALS. WORTHY LEE, Council Bluffs, Iowa. Filed July 27, 1927. Serial No. 208,827. 5 Claims. (Cl. 83—30.)

1. In a machine of the class described, the combination with a horizontal main shaft, and a casing disposed con-

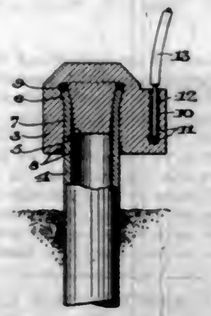
centrically about the same and comprising a perforate cylindrical portion and a conical end-portion; of agitating and feeding devices secured upon said shaft within said casing, each of said devices comprising a central drum



and a plurality of undulating wings extending outwardly from said drum and having a generally helical direction about the same, the outer edges of said wings being substantially equidistant from the adjacent inner surfaces of the casing.

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1,693,848. CAP FOR GROUND MEMBERS. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 23, 1922. Serial No. 596,531. 6 Claims. (Cl. 173—31.)

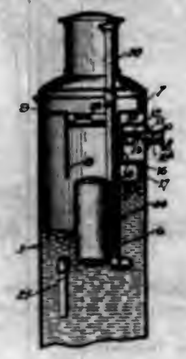



5. A grounding device comprising a ground-rod, a cap having a downwardly-opening recess into which the upper end of said rod is received, means within said recess entering the upper end of said ground-rod to wedgingly flare the upper end portions of said rod as the cap is driven thereon, a deformable metal insert interposed between the upper end of said recess and said rod and compressed by the driving operation into firm contact with said cap and rod to insure good electrical connection therebetween, and means for connecting a ground wire to said cap.

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1,693,849. OIL AND GAS SEPARATOR. DAVID G. LORRAINE, Los Angeles, Calif. Original application filed Nov. 6, 1922, Serial No. 599,420. Divided and this application filed Sept. 29, 1924. Serial No. 740,610. 8 Claims. (Cl. 183—2.7.)

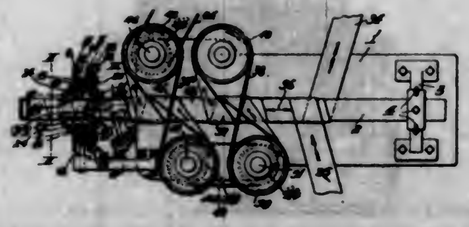
6. A device of the character described comprising a tank having a vertical partition terminating short of the bottom of said tank and forming a space at the side of the tank closed to the main portion thereof at the top of said partition and open to said main portion of the tank below said partition, a flow inlet in said side space, a casing enclosing said flow inlet and spaced from said partition, said casing having a perforated base whereby all of said flow is adapted to pass through said perforations and into said side space, a second partition in said tank terminating short of the bottom of said first partition and forming a



space at the opposite side of the tank closed to the main portion thereof at the top of said partition and open to the main portion of the tank below said partition, and a conduit connecting the partitions in the tank at the top thereof and opening into said side spaces, the upper and lower parts of the main portion of the tank forming a gas chamber and a settling chamber respectively.

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1,693,850. ATTACHMENT FOR RESHAPING TUBULAR MEMBERS. CHARLES J. LOUIS, St. Louis, Mo., assignor of two-thirds to N. T. Erlinger, East St. Louis, Ill. Filed Jan. 20, 1923. Serial No. 613,962. 11 Claims. (Cl. 93—80.)



1. A tube making device comprising a mandrel, a swaging tool loosely secured to one end of said mandrel, said tool at its end which is adjacent said mandrel being smaller in diameter than said mandrel.

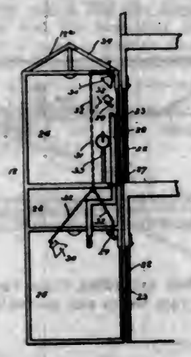
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1,693,851. ELEVATOR SYSTEM. HOBART MASON, Westfield, N. J. Filed Aug. 24, 1926. Serial No. 131,151. 15 Claims. (Cl. 187—16.)

5. In an elevator system for a building having many stories, the combination of an elevator shaft serving a large number of said stories, a car in said shaft having an upper passenger compartment and a lower passenger compartment, said large number of stories being arranged



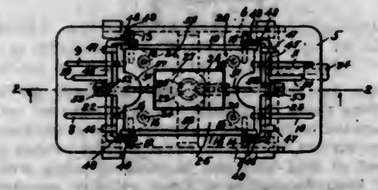
in groups with each group having floor-portions adjacent the shaft spaced vertically a distance equal to the vertical distance between the floors of the upper and lower com-



partments of the car, a single control station in one of the car compartments, and a signal means between the two compartments.

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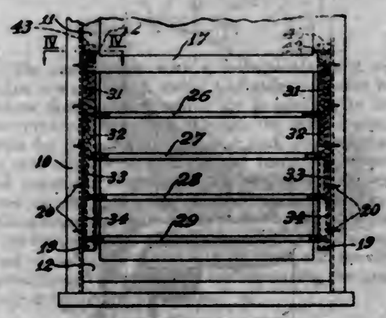
1,693,852. CONCRETE-MOLDING MACHINE. THOMAS MCQUAIN, Ocean Park, Calif. Filed Aug. 9, 1927. Serial No. 211,807. 5 Claims. (Cl. 25—41.)



4. A block molding machine comprising a frame, side wall members and end wall members hinged to said frame, a bottom member, slidable partitions mounted on said end wall members to slide into and out of the mold chamber, and means for sliding said partitions.

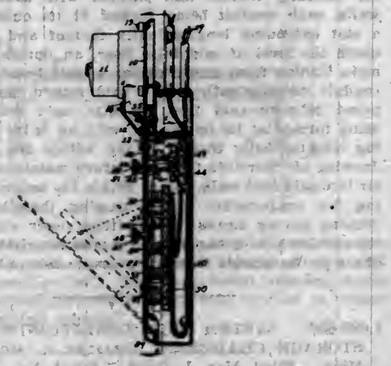
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1,693,853. WINDOW GUARD. ARTHUR T. MCWANE, Birmingham, Ala. Filed Sept. 8, 1927. Serial No. 217,364. 11 Claims. (Cl. 20—71.)




1. In a window guard adapted to be opened and closed, a plurality of unconnected bars, individual runners for each of the bars, guide means for the runners, and means cooperating with the runners and the guide means for holding the bars in spaced relation when the guard is in closed position.

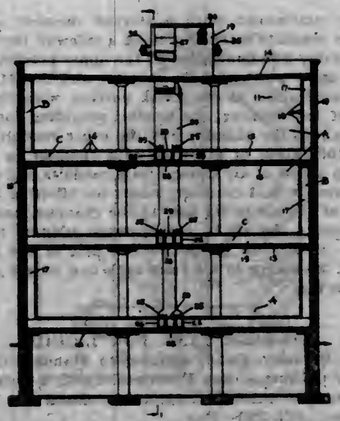
1,693,854. ELECTRIC FUSE PANEL. ADAIR W. MINOTT, Ames, Iowa, assignor of one-half to G. C. Merritt, Des Moines, Iowa. Filed June 3, 1926. Serial No. 113,567. 2 Claims. (Cl. 200—50.)



1. In an electric fuse panel, the combination of a panel body portion, a panel front hinged to the body portion to swing outwardly at its top, a fuse panel supported by said front to normally lie within the panel when the front is closed, a series of fuses mounted thereon, said front having a series of openings adjacent to each fuse through which access may be had to remove or replace the fuses, a sliding front member mounted upon the inner surface of the hinged front member, bolts connecting the fuse panel with the hinged front member, said sliding front member being formed with slots to receive said bolts, and whereby the sliding member is guided and supported, means on the exterior of the hinged front member for moving said sliding front member, a main line switch within the panel, and means connected with said switch for locking the sliding front member when the switch is closed and for releasing the sliding front member when the switch is opened.

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1,693,855. AIR-CONDITIONING SYSTEM. CHARLES A. MOORE, Edina, Minn. Filed May 1, 1926. Serial No. 106,145. 6 Claims. (Cl. 98—54.)

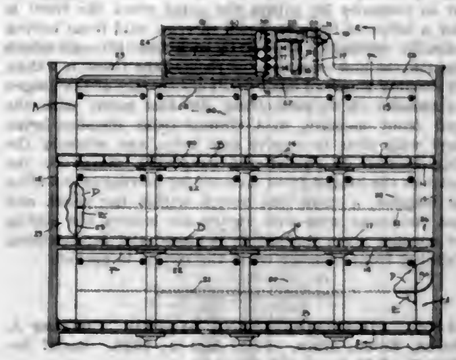


1. In combination with a structure forming a provision chamber, a false perforate floor and false perforate sidewalls for said chamber, the same forming intercommuni-

cating passageways at the bottom and sides of the chamber, a housing surmounting said structure, an air feed main depending from said housing into said chamber, a pair of spaced feed conduits branching off from said feed main and extending in parallelism along the main floor of the chamber medially thereof and parallel with said false sidewalls, each conduit being formed at its outer side with a slot extending longitudinally thereof and opening beneath the level of said false floor, an upright air return main leading from said chamber to said housing, a return conduit communicating with said return main and disposed between said feed conduits, said return conduit being formed at its upper side with an entry slot extending longitudinally thereof, a fan within the housing for drawing air thereinto from the return main and for forcing air into said feed main, means within the housing for reducing the temperature of air passing therethrough, said housing having means for admitting outer air thereto on the suction side of the fan and means to permit the escape of air to the outside from the pressure side of the fan.

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1,693,856. SYSTEM FOR CONDITIONING AIR IN STORAGE CHAMBERS. CHARLES A. MOORE, Edina, Minn. Filed May 1, 1926. Serial No. 106,144. 4 Claims. (Cl. 98—54.)

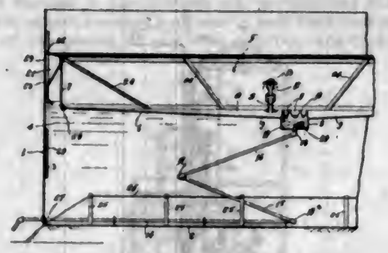


4. The combination with a storage chamber of upper and lower conduits extending along a sidewall thereof, the former having communication at the upper portion thereof with the upper portion of the chamber and the latter having communication at its lower portion with the lower portion of the chamber, one conduit providing for the ingress of air to the chamber and the other conduit providing for the egress of air from said chamber, a fan for setting up a flow of air through said conduits and circulating the same in said chamber, means for affecting the temperature of the air in its flow to the chamber, and means for freshening the air in such passage adapted to admit outer air to the flow on the suction side of the fan and permit of the escape of air from such flow on the pressure side of the fan.

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1,693,857. STORAGE TANK FOR LIQUIDS. STUART MOSER, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Dec. 11, 1926. Serial No. 154,200. 7 Claims. (Cl. 220—26.)

1. In a storage tank for liquids, the combination of a tank, a floating roof supported on the liquid in the tank, having a deck with a flange extending upwardly around the edge of the deck, said deck having a depressed point with a sump located at the depressed point and having a plurality of channels formed in the deck operating to drain water to the sump and prevent an accumulation of water from tilting the roof sufficiently to submerge the flange,



and an annular apron extending from the flange to the tank wall, excluding rain water and preventing evaporation of the liquid.

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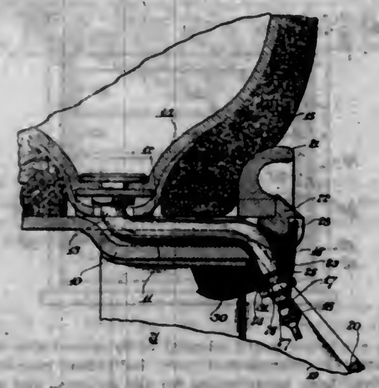
1,693,858. PUMP BASE. DON D. MYERS, Toledo, Ohio, assignor to Monroe Auto Equipment Mfg. Co., Monroe, Mich., a Corporation of Michigan. Filed July 26, 1926. Serial No. 124,924. 1 Claim. (Cl. 230—238.)



A pump base including an extended tread portion, a hollow boss rising from said base, a cup-shaped cylinder head mounted in said boss and possessing a depression in the upper surface thereof, an outlet passage located at the outer end of said boss and in communication with the cylinder head depression, a pump cylinder eccentrically mounted in said boss, the lower portion of said cylinder having a flared end so as to be positioned in said boss, said cylinder head and boss serving as locking means to retain said pump cylinder, and retaining means integral with the base to position the cylinder head within said boss.

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1,693,859. COVER FOR TIRE-VALVE APERTURES. EMIL A. NELSON, Roseville, Mich., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1926. Serial No. 100,014. 1 Claim. (Cl. 152—12.)



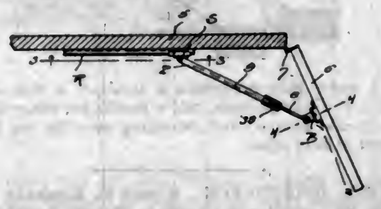
The combination with a vehicle wheel including a wheel rim or felly having a gutter, a transversely extending



depression in the rim terminating in a transverse slot in the gutter, a valve stem seated in the depression and projecting therefrom below the gutter, a locking ring in the gutter, a sealing water surrounding the stem and packed with a substance which fills the irregular interstices between the stem and the angularly related surface walls which surround it, and a washer clamping means on the stem.

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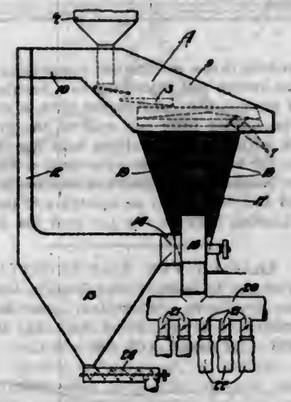
1,693,860. DOORCHECK. CARL P. OLSON, Battle Lake, Minn. Filed Mar. 3, 1928. Serial No. 258,791. 4 Claims. (Cl. 16—85.)



1. A hinged structure check mechanism of the class described comprising a pair of slidably connected members, means urging the members in extended relation to each other, means for connecting one of said members to a hinged structure, and slidable means for connecting the other member to a fixed structure, said slidable means comprising a releasable mechanism for preventing movement thereof.

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1,693,861. APPARATUS FOR CLEANING COAL. EDWARD O'TOOLE, Gary, W. Va. Filed Sept. 27, 1927. Serial No. 222,308. 4 Claims. (Cl. 209—502.)

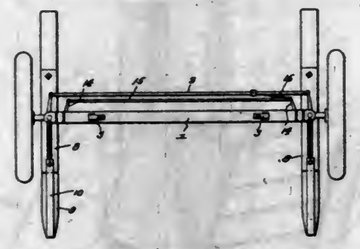


1. The combination with a coal cleaning and sizing apparatus comprising, a sizing and cleaning table having a pervious deck through which air is adapted to be forced under pressure upwardly through the coal, a plurality of outlets for the sized and cleaned coal, of a hood arranged over said table, a suction conduit leading from said hood to an expansion chamber, a fan having its inlet port connected to said expansion chamber, an air chest connected to the lower side of said sizing and cleaning table and to the the discharge port of said fan, and a manifold member connected to the lower end of said air chest and provided with a plurality of valved outlets for regulating the pressure of the air delivered to said table.

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1,693,862. SLED ATTACHMENT FOR MOTOR VEHICLES. AUGUST OTTO, Sauk Center, Minn. Filed Oct. 7, 1927. Serial No. 224,655. 2 Claims. (Cl. 280—8.)

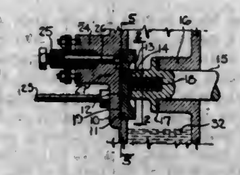
1. In a sled attachment for motor vehicles in association with the conventional steering mechanism and axle parts, a cross bar adapted to be connected to the usual axle, runner members, said runners being provided with a transverse pin projection from said runners, construction on said pin adapted to be associated with complementary construction



on the cross bar whereby the runners may be pivotally associated to the cross bar, and means associated with said pin in connection with the conventional steering mechanism for simultaneously steering said runners in unison with the vehicle wheels.

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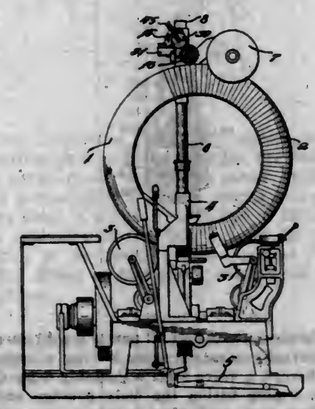
1,693,863. ROTARY EXPANSION VALVE. THOMAS I. POTTER, Portland, Oreg. Filed Nov. 10, 1926. Serial No. 147,535. 7 Claims. (Cl. 62—127.)



1. An expansion valve having a pair of relatively movable contacting members, one of said members having a measuring pocket and inlet and outlet ports formed therein; and a second member having a pair of transfer pockets therein each of which registers only with its respective inlet or outlet port and both of which transfer pockets can register with said measuring pocket.

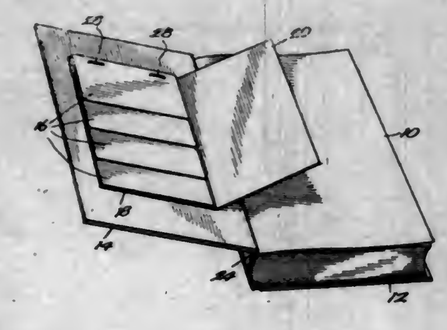
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1,693,864. PRINTING ATTACHMENT FOR WRAPPING MACHINES. PAUL PIERCE, Chicago, Ill. Filed Apr. 30, 1927. Serial No. 187,770. 9 Claims. (Cl. 101—38.)



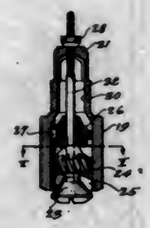
1. The combination with a tire wrapping machine, of means mounted thereon for printing desired indicia on the wrapping of a tire wrapped thereby, an ink applying roller resiliently contacting said means, and a second inking roller resiliently contacted by said first ink applying means.

1,693,865. BOOK. ELMER E. PRICE, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 12, 1927. Serial No. 174,798. 4 Claims. (Cl. 281—16.)



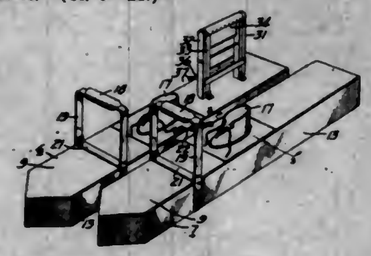
1. A compound book having a main body of leaves and a front and back cover, supplemental leaves fastened to the inside of the main front cover, and a supplemental cover for the supplemental leaves hinged adjacent the inner edge of the main front cover and at the right edge of the front suplemental leaves along a line parallel and adjacent to the hinge of the main front cover, thereby positioning the rear cover of the inner book so as to be properly closed by the engagement therewith of the leaves of the main body in response to the closing of the main body of leaves.

1,693,866. NOZZLE FOR OIL BURNERS. CHARLES L. RAYFIELD, Chicago, Ill., assignor to Rayfield Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed July 20, 1925. Serial No. 44,642. 8 Claims. (Cl. 299—120.)



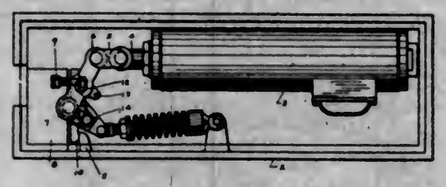
1. A mechanical atomizing oil nozzle for oil burners comprising a centrally passaged body having a bridge at the inner end thereof, a valve stem adjustably depending from said bridge, a plug fitting the body passage and carried by said valves tem, said plug having a plurality of inclined passages therein, an inverted conical valve forming a continuation of said plug and valve stem said conical valve coacting with the body passage to form a valve and its seat, and a second plug similar to said first plug freely journalled on said valve stem adjacent said first plug.

1,693,867. WATER SHOE. PAUL REINWALD, San Francisco, Calif. Filed June 20, 1927. Serial No. 200,025. 2 Claims. (Cl. 9—21.)



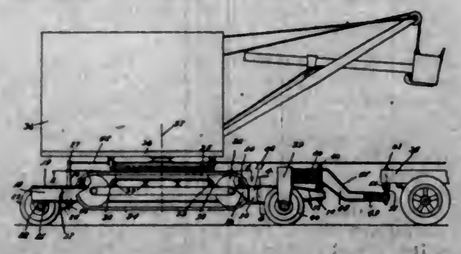
2. A water shoe comprising a pontoon, a shoe secured to the top of said pontoon, and a handle-bar secured to the sides of said pontoon and extending over the top thereof forward of said shoe.

1,693,868. GROUND BOX. ROBERT M. ROBINSON, Louisville, Ky., assignor to Cheatham Electric Switching Device Co., Incorporated, Louisville, Ky., a Corporation of Kentucky. Original application filed Dec. 22, 1923, Serial No. 682,235. Divided and this application filed June 8, 1925. Serial No. 35,766. 2 Claims. (Cl. 308—74.)



1. In a switch throw mechanism comprising a lever connected to the switch and fulcrumed in a bushing carried by an integral ground box constructed with a grooved block and a lug projecting from one wall of the ground box, a grooved jaw with one end abutting said lug and the other end formed for the reception of a bolt, a bushing interposed in the grooves of said jaw and said block between the ends of said jaw and a bolt so located and disposed as to clamp the bushing between the jaw and the block.

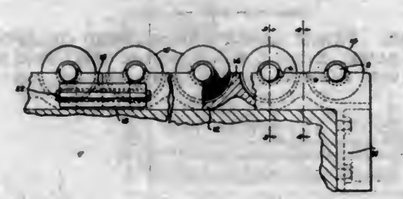
1,693,869. TRAILER FOR SELF-PROPELLED VEHICLES. GEORGE T. RONK, Cedar Rapids, Iowa, assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa, a Corporation of Iowa. Filed Aug. 22, 1927. Serial No. 214,667. 7 Claims. (Cl. 280—33.1.)



1. A trailer comprising a platform having a rigid tongue at one end and supporting wheels at its opposite end, a second trailer member for supporting the forward end of said tongue, said second trailer being provided with a rigid tongue, means for supporting the forward end of the last said tongue, the forward end of the first said tongue being supported by the second said tongue, and means for adjustably connecting the first said tongue with the second said tongue.

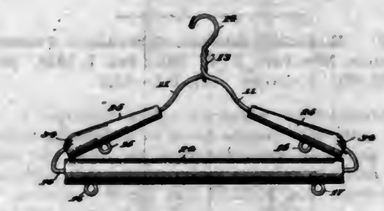


1,693,870. ROLLER RAIL FOR HEAT-TREATING FURNACES. JOSEPH SAMMON, Kearny, N. J., assignor to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey. Filed Feb. 8, 1928. Serial No. 252,930. 4 Claims. (Cl. 214—18.)



1. A roller rail for heat treating furnaces consisting of two side members having at their upper edges alining bearing recesses and portions integral with said side members connecting said side members together at points adjacent to their lower edges and beneath said bearing recesses and at points spaced away from said lower edges and between said recesses, and rollers in said recesses.

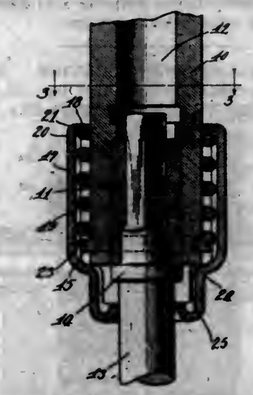
1,693,871. GARMENT HANGER. SAMUEL A. SCHNEIDER, Washington, D. C. Filed Apr. 3, 1928. Serial No. 267,032. 10 Claims. (Cl. 223—61.)



5. The combination with a garment hanger having bowed sections for the support of a coat and a horizontal trouser or skirt support, of hollow conical shape-retaining members surrounding said bowed sections with the bases of said conical members lowermost, a hollow cylindrical shield surrounding said horizontal support, downwardly extending loops integral with said horizontal support and inwardly extending loops integral with said bowed sections, and slits or openings in said conical members and shield for the reception of said inwardly and downwardly extending loops respectively to thereby prevent movement of said conical members and shield relative to the hanger.

1,693,872. TOOL-RETAINING DEVICE. ERNEST H. SHAFF, Grand Haven, Mich., assignor to William H. Keller, Inc., Grand Haven, Mich., a Corporation of Michigan. Filed May 11, 1925. Serial No. 29,644. 5 Claims. (Cl. 121—82.)

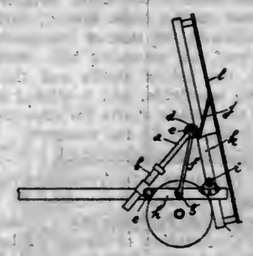
1. A tool retaining device for pneumatic hammers and the like comprising, in combination with the hammer and the tool, an annular rib at the forward end of the hammer, a flange on the rivet set or tool adjacent the end of the hammer, a U-shaped retaining member forward of said tool flange embracing the tool and adapted to engage with the flange, supporting strips for said retaining member on opposite sides of the hammer, said strips having a portion thereof abutting the end of the hammer and another portion thereof lying alongside the barrel of the hammer, flat arcuate-edged flanges on said strips extending inwardly toward the hammer, and a coiled spring compressed between said flanges and the rib of the hammer within the side strips.



1,693,873. WATER-SOFTENING SILICATE AND PROCESS OF PRODUCING SAME. ELI WALTER SHAWEN and ALBERT C. ARNETT, Dayton, Ohio. Filed Feb. 9, 1925. Serial No. 7,887. 6 Claims. (Cl. 23—111.)

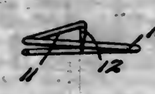
4. As an article of manufacture, water softening filter material comprising pieces of material of porous vitreous character in which sodium bicarbonate has been incorporated prior to heat treatment thereof, the resulting material being subjected while hot to a treatment of sodium chloride.

1,693,874. TIPPING DEVICE FOR WAGONS. CHARLES ROBERT SIROT, Aubervilliers, France. Filed Apr. 5, 1927, Serial No. 181,098, and in France May 22, 1926. 2 Claims. (Cl. 298—19.)



2. Control mechanism for tilting wagons which comprises a lifting jack, a pivot fixed on the frame of the vehicle, a pivot at the end of the piston of the jack, a roller on a portion of this pivot, a jointed link on another part of the pivot, a pivot on the frame of the vehicle for the other extremity of the link, a pivot for the wagon connecting it to the frame and an integral sliding surface for the frame of the wagon and placed in contact with the roller.

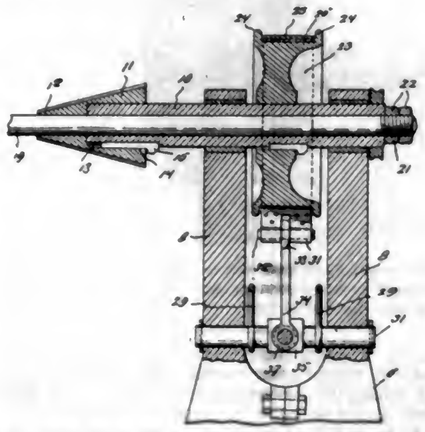
1,963,875. THUMB TACK. TOMBAY TANAKA, Paso Robles, Calif. Filed Jan. 8, 1927. Serial No. 159,858. 2 Claims. (Cl. 85—16.)



1. A thumb tack comprising a strip of metal bent into the form of a geometrical figure and having a portion

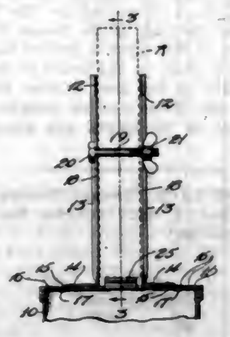
projecting inwardly and upwardly at an angle to the plane of the figure to a point substantially in the axis of said figure and extending downwardly from said point and having a sharp extremity in the plane of said figure, said inwardly extending portion being resilient.

1,693,876. CABLE-SPOOLING DEVICE. EDWARD N. UNRUH, Jr., Corsicana, Tex. Filed Dec. 23, 1926. Serial No. 156,722. 1 Claim. (Cl. 242—68.)



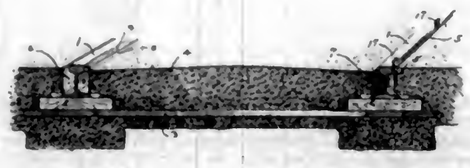
In a cable spool machine of the class described, a pair of spaced standards, horizontally aligned hollow shafts journaled at their outer ends within the respective standards at the upper ends thereof, a pair of opposed spool supporting cones, the outer larger end of each cone being provided with an enlarged socket to receive the inner end of the respective hollow shaft, the adjacent faces of the inner end of each hollow shaft and the socket of the respective cone being provided with co-operating channels, a key insertable in said channels to positively lock the cones on the inner ends of the shaft, longitudinally extending ribs formed on the outer face of each cone for forcible engagement with the bore of the spool at the respective ends thereof, an elongated bolt entering longitudinally through the hollow shafts and the cones for interconnecting the standards, and a driving member arranged on one of the hollow shafts for effecting the rotation of the spool supported on the cones.

1,693,877. ROLL HOLDER FOR GUMMED-TAPE SERVING MACHINES. WILLIAM A. UTTZ, Sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex., a Corporation of Texas. Filed Nov. 25, 1927. Serial No. 235,672. 6 Claims. (Cl. 242—55.2.)



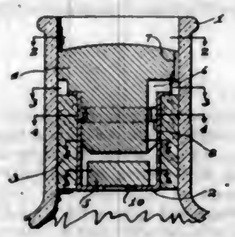
1. In a gummed tape dispensing machine, a supporting plate having a series of slots spaced laterally from each other on opposite sides of the center line of said plate, a pair of roll supporting standards each having a foot provided with a toe passing through a selected slot in a respective series and provided with a terminal portion engaging beneath said plate, and means to draw the upper parts of said standards together and thereby hold them normally against removal from said slots.

1,693,878. TRACK LINER AND METHOD OF APPLYING SAME. RALPH J. WELLS, Dayton, Ohio. Filed June 27, 1927. Serial No. 201,640. 18 Claims. (Cl. 238—9.)



3. The herein described method of railway track construction including positioning a form member in spaced relation with a railway rail to form a linear crevice adjacent to the rail flange communicating with an enlarged chamber beneath the rail head and contiguous to the web of the rail, depositing road bed material beside said form and filling the chamber with plastic material deposited through said crevice.

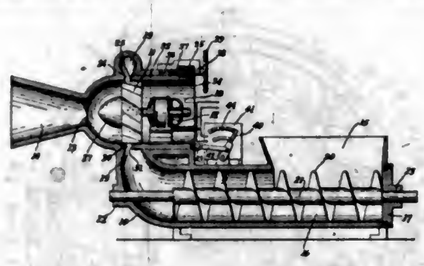
1,693,879. NONREFILLABLE BOTTLE. FREDERICK WESTPHAL, New York, N. Y. Filed Feb. 7, 1928. Serial No. 252,453. 2 Claims. (Cl. 215—22.)



1. In a device of the class described, the combination of a bottle neck, a resilient sleeve inserted in said bottle neck, a cup supported by said sleeve, a plug in said cup, means for holding the plug in place, said means consisting of a set of three indentations formed in the wall of the cup and adapted to co-act with a slot formed in the neck of the plug for locking the said cup and plug together, a valve resting in the bottom of the said cup above an opening therein, a series of vertical slots in the neck of said plug and a series of flattened portions in the crown of said plug, said valve when the bottle is tilted adapted to admit liquid through said hole in the bottom of the cup and thence to the vertical slots and said flattened portions, and thence to the neck opening of the bottle, said valve when the bottle is in its upright position adapted to prevent any liquid from entering the bottle.

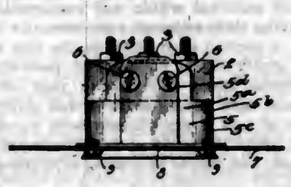


1,693,880. METHOD AND APPARATUS FOR BURNING FUEL. EARL P. WETMORE, Concord, Mich., assignor to The Anolicoal Burner Co., Toledo, Ohio, a Corporation of Delaware. Filed Oct. 23, 1924, Serial No. 745,311. Renewed Mar. 17, 1928. 19 Claims. (Cl. 110—104.)



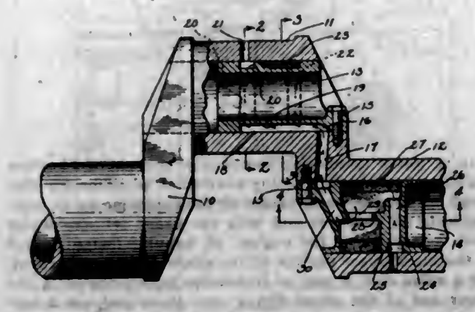
1. A method of burning plastic fuels which comprises generating a current of air, feeding a thin annular sheet of plastic fuel radially inwardly into said air current, and shearing particles from the inner edge of said fuel and dispersing them into said air current.

1,693,881. ELECTRIC TERMINAL CONSTRUCTION. HENRY A. ZIOLA, Toledo, Ohio, assignor to The Swartzbaugh Manufacturing Company, Toldo, Ohio, a Corporation. Filed May 20, 1926. Serial No. 110,497. 8 Claims. (Cl. 173—338.)



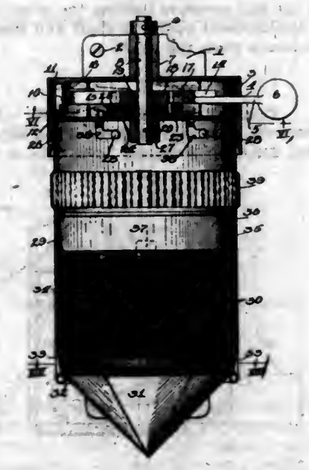
1. A terminal socket including complemental socket sections adapted to be fitted against each other from opposite directions, an insulating block, fastening members connecting the socket sections together and also engaging the insulating block; and terminal pins carried by the insulating block.

1,693,882. CRANK-SHAFT OIL PLUG. GLENN D. ANGLE, Detroit, Mich., assignor to Detroit Aircraft Engine Corporation, Detroit, Mich., a Corporation of Michigan. Filed June 2, 1925. Serial No. 34,407. 8 Claims. (Cl. 184—7.)



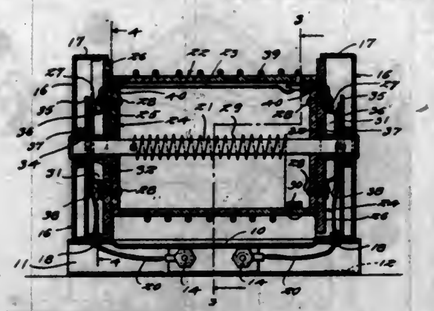
1. In combination, a shaft, a bearing surface, a bearing for said surface, a removable plug adapted to be inserted in said shaft adjacent said bearing surface, a passage in said plug for carrying lubricant to said bearing and bearing surface, and a chamber in said plug for retaining the foreign matter in said lubricant.

1,693,883. DISPENSER AND METHOD OF USE. CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed July 12, 1926. Serial No. 121,849. 10 Claims. (Cl. 312—44.)



1. A dispenser comprising an apertured mounting plate, a housing secured thereto, a cover closing the lower end of said housing and rotatable with respect thereto, a sundae dish container removably engaged in said cover and adapted to carry a stack of nested sundae dishes, and a lever operated mechanism in said housing adapted to be operated to cause the cover, the container and the stack of dishes therein to be rotated as a unit, with respect to a sundae dish holder held in engagement with the lowermost dish in said container.

1,693,884. REEL FOR CONDUCTING CORDS. CHARLES BLESSMAN, Jr., Toledo, Ohio, assignor to The Reel Novelty Mfg. Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 11, 1926. Serial No. 94,029. 1 Claim. (Cl. 173—367.)

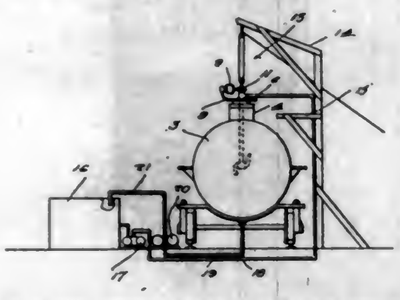


In a reel for conducting cords, a base, a pair of end members arising therefrom, a stationary shaft supported by the end members, a hollow drum rotatable upon the shaft intermediate the end members, a spring connecting the shaft and drum and tending to constantly urge the drum in one direction, a circular contact element carried by each end of the drum and spaced from the shaft, a cord wound upon the drum and including conducting wires respectively connected to the contact elements at the ends of the drum, contact elements surrounding the shaft at the ends of the drum in confronting relation to the contact elements of the drum, insulating plates likewise surrounding the shaft and arranged outwardly of the last

named contact elements, springs extending between the end members and the insulating plates and constantly urging the last named contact elements into engagement with the contact elements of the drum and sleeves surrounding the ends of the shaft between the ends of the drum and the end members holding the drum against longitudinal displacement upon the shaft and insulating said contact elements from the shaft.

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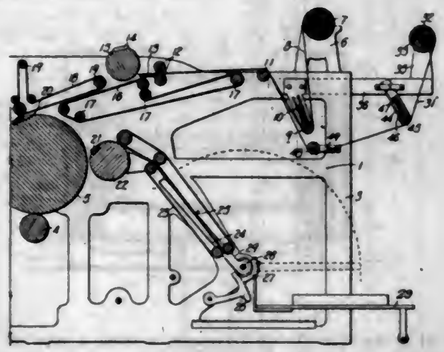
1,693,885. TANK-CLEANING DEVICE. ARTHUR B. BUTTERWORTH, Port Arthur, Tex. Filed Sept. 15, 1927. Serial No. 219,684. 3 Claims. (Cl. 141—1.)



1. In a tank cleaning device of the class described, a cap adapted to fit upon a filler neck on said tank, said cap having a central opening whose peripheral edge portion is beveled to provide a seat, a tank cleaning and fluid circulating nozzle, a mounting for said nozzle, said mounting have a vertical hole through which a portion of said nozzle passes, said mounting including a semi-spherical base resting rockably upon said seat, and means for rotating said nozzle, said means being supported from the mounting.

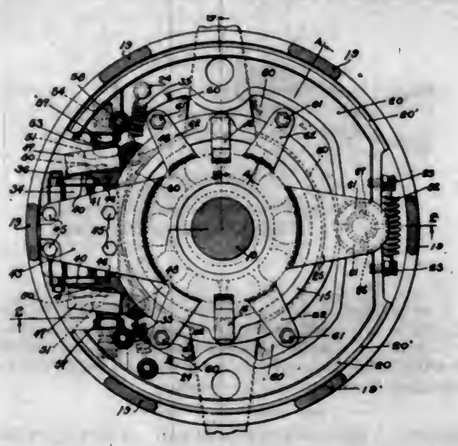
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1,693,886. METHOD OF SLIP-SHEETING AND MEANS FOR PRACTICING THE SAME. HERSCHEL CATON, Kansas City, and EUGENE CATON, Rosedale, Kans., and LLOYD C. HOWARD, Kansas City, Mo., assignors to Caton Printing Company, Kansas City, Mo., a Corporation of Missouri. Filed Oct. 21, 1927. Serial No. 227,707. 9 Claims. (Cl. 101—417.)



1. In combination with a roll-feed printing press, means for conducting the web of the print roll to the press, means for severing sheets from the print web, and means for delivering the severed and printed sheets, a slip-sheet handling device comprising a support for a roll of slip-sheet paper, and means for delivering the web of said slip-sheet roll to said print web conducting means for severance of sheets from the slip-sheet web by print sheet severing means and carriage of slip sheets through the press and delivery therefrom with said print web sheets by said print web sheet delivering means.

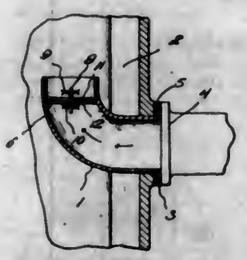
1,693,887. VEHICLE BRAKE MECHANISM. NIELS A. CHRISTENSEN, Milwaukee, Wis. Filed Apr. 3, 1924. Serial No. 703,952. 11 Claims. (Cl. 188—152.)



1. In brake mechanism of the class described, the combination with a revoluble brake drum, of a support, a pair of brake shoes mounted within and engageable with said drum and having their adjacent ends pivotally mounted on said support, a pivoted lever adjacent the free end of each shoe and in direct thrust engagement therewith, a fluid-pressure-operated motor including a pair of oppositely moving pistons, each having a thrust-rod directly engageable with one of said levers whereby both levers and shoes are moved to apply the brake upon the outward movement of said pistons, and means to release said shoes from said drum.

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1,693,888. CHECK VALVE FOR WATER-CIRCULATING SYSTEMS. NOLAN I. CLARK, Beggs, Okla. Filed Dec. 15, 1924. Serial No. 756,069. 1 Claim. (Cl. 123—170.)



In a water circulation device for internal combustion engines a curved elbow fitting adapted to be removably disposed within the water jacket of the engine so as to communicate at its lower end with the usual cylinder water inlet connection of the engine, an annular flange formed in the inner upper portion of the elbow fitting and providing a valve seat, a pair of transverse bars mounted in the upper end of the elbow fitting, one above and one below the flange, said bars being provided with registering openings in the central portion thereof, a flat valve seatable on the flange, a vertical stem extending through the flat valve, the ends of the stem being slidable through the openings in the guide bars, said flat valve being provided with a drain opening, and a pivoted closure for the drain opening.



1,693,889. GOLF-BAG SUPPORT. TALBERT M. DICK, Des Moines, Iowa. Filed June 27, 1927. Serial No. 201,748. 8 Claims. (Cl. 150—1.5.)



1. In a device of the class described, two arms, each designed to have one of their ends pivoted to a golf bag, and a handle member rigidly secured to said arms against relative movement thereto for placing the same in operative and inoperative positions.

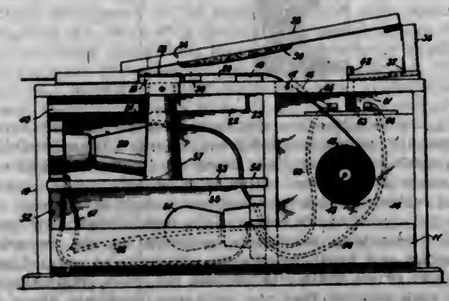
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1,693,890. ULTRAFILTER MEMBRANE. JACQUES DUCLAUX, Paris, France. Filed Aug. 30, 1923, Serial No. 660,180, and in France Sept. 11, 1922. 1 Claim. (Cl. 210—203.)

The method of making a cellulose acetate filter, which comprises immersing a nonmetallic cloth in cellulose acetate dissolved in acetic acid until the yarns are impregnated and the interstices of the weave are filled, then coagulating the acetate by water and washing out the surplus water with a liquid miscible with water and the substance to be treated by the filter.

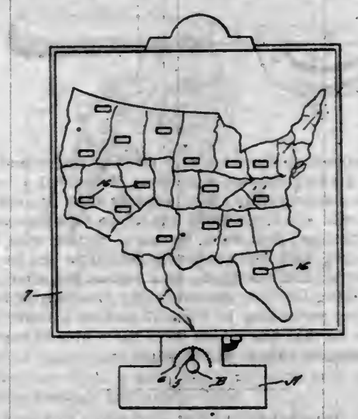
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1,693,891. PHOTOGRAPHIC PRINTER. VINCENT J. DUNKER, Ste. Genevieve, Mo. Filed May 8, 1926. Serial No. 107,617. 5 Claims. (Cl. 95—75.)



1. A photographic printer comprising, in combination, means to guide a strip of negatives, an intermittently illuminated source of white light below said guiding means, a continuously operating white light in a separate compartment below said guiding means, means to supply ruby light from the continuously illuminated source to permit of adjustment of a desired negative and means to convey white light from said continuously acting source to permit of inspection of the succeeding negative on the strip.

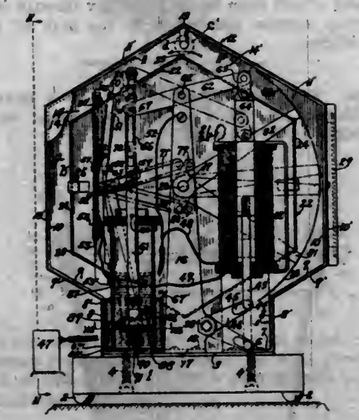
1,693,892. STATION INDICATOR FOR RADIO SETS. NICHOLAS PAUL FUCHS, Jr., Akron, Ohio. Filed July 22, 1927. Serial No. 207,733. 1 Claim. (Cl. 40—132.)



In an indicating means for a display board, wherein the board is formed with a plurality of openings, travelling members arranged behind said openings and constructed of translucent material, the said travelling members having suitable readable matter thereon, in combination, a radio station selector dial provided with a contact arm, an electric lamp arranged behind each of said travelling members, the rays from each lamp being visible through the travelling member disposed in front thereof, a plurality of contacts adapted to be selectively engaged by the contact arm, of the selector dial, the said contact arm and the respective contact being engageable for closing a circuit to a certain lamp for illuminating the reading matter on the travelling member concerning a particular station in correspondence to the tuned position of the radio dial.

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1,693,893. AUTOMATIC INTERMITTENT-EXHIBITING DEVICE. JAY GAGE, Los Angeles, Calif., assignor, by direct and mesne assignments, to Electro-Tel-It Manufacturing Company. Filed May 16, 1923. Serial No. 639,841. 6 Claims. (Cl. 40—55.)



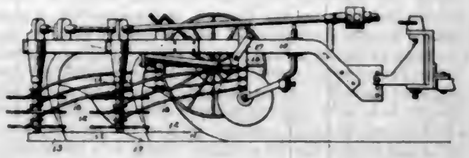
1. An exhibiting device comprising a carrier for advertisements; electrically operated means for intermittently operating the carrier to successively expose to view advertisements on the carrier; an electrical switch connected to said operating means; dash pot means connected to operate said switch; a piston rod in said dash pot and an elongate slotted link and pins on said piston rod, said link and pins cooperating to form lost motion means for timing the periods of the operation of said switch by the dash pot.

1,693,894. CAN OPENER. HERMAN GARRISON, Chicago, Ill. Filed Apr. 30, 1928. Serial No. 273,816. 1 Claim. (Cl. 30—3.)



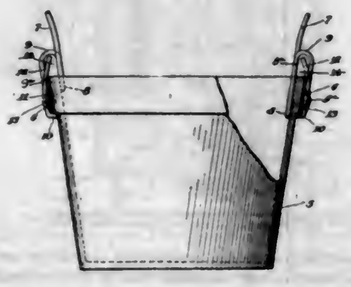
A can opener in the form of a lever of the second class, having a guiding fulcrum formed at the end of a handled stock, and a downwardly offset uppercut knife secured by its shank to said stock, its blade extending forward past the guiding fulcrum; said knife having a cutting edge on its lower margin, and being laterally curved in the direction of its length; and the blade, in a region posterior to the fulcrum, being laterally curved in the direction of its vertical width, presenting in vertical section a curve which is concave on that side which faces the center of curvature of the directional curve of the knife.

1,693,895. COMBINED PLOW AND SOIL PULVERIZER. GUY HERRING HALL, Jackson Heights, N. Y. Filed Aug. 8, 1927. Serial No. 211,473. 4 Claims. (Cl. 97—34.)



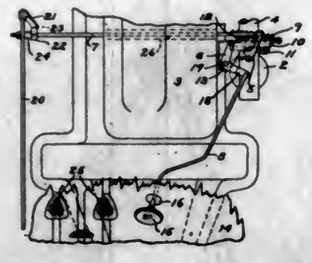
1. In combination with a plow and a soil pulverizer formed with blades arranged to strike upon the soil while it is in position elevated by the plow, and thereby throw it laterally away from the plow, of a clod holding device supported in spaced relation to the pulverizer blades and shaped to permit the soil elevated by the plow to pass through the space between it and the pulverizer blades and to permit the pulverized soil to be thrown laterally through it, said clod holding device being also shaped to prevent large clods of soil from moving laterally through it and to temporarily support such clods in the path of the pulverizer blades.

1,693,896. FLOWERPOT HOLDER. HANS PETER HANSON, Chicago, Ill. Filed Apr. 1, 1926. Serial No. 99,067. 13 Claims. (Cl. 215—100.)



1. In a device of the character described, a demountable pot handle consisting of a single piece of resilient wire formed to straddle the flanged rim of a pot, there being means for locking itself to the said pot flange, and means to automatically vertically adjust its locking mechanism to variant pot flanges.

1,693,897. ACCELERATOR. ROBERT M. HENDERSON, West Allis, Wis., assignor to The Fulton Company, West Allis, Wis., a Corporation of Wisconsin. Filed Mar. 7, 1924. Serial No. 697,436. 8 Claims. (Cl. 74—39.)



1. In combination with an engine having a plurality of cylinders and a fuel control located at one side thereof, a hand operable rod located at the opposite side of said cylinders, a transverse rod connected to said fuel control and crossing said engine between said cylinders, a one-way lost motion connection between said rods, a foot operable rod located on the fuel control side of said cylinders, a bell crank lever having one arm connected to said foot operable rod, means for positively arresting and limiting the movement of said lever in one direction, and a flexible direct connection between the other arm of said lever and said transverse rod.

1,693,898. AMPLIFICATION SYSTEM. LAWRENCE C. F. HOBLE, Newark, N. J., assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y., a Corporation of New York. Filed Jan. 24, 1923. Serial No. 614,608. 6 Claims. (Cl. 179—171.)




1. An amplification system comprising in combination a plurality of electron tubes each having a heated cathode, an anode and a grid, input circuits including said grid and cathode of each tube, output circuits including said anode and cathode of each tube, and coupling means between the output circuit of one tube and the input circuit of another tube comprising conductors connected in the respective circuits and fixed immediately adjacent and parallel side by side to one another throughout the entire length thereof in such manner that the reactance gradients along all portions of the two conductors are substantially equal.

1,693,899. GRID LEAK. LAWRENCE C. F. HOBLE, Newark, N. J., assignor, by mesne assignments, to Federal Telephone Manufacturing Corporation, Buffalo, N. Y., a Corporation of New York. Filed Apr. 19, 1923. Serial No. 633,241. 4 Claims. (Cl. 201—63.)

1. A grid leak comprising a cylindrical casing, a pair of resilient caps longitudinally slidable over the ends of said casing, each of said caps having a central conical portion protruding outwardly from the casing, a resistance element comprising an insulated rod having conductive material on the surface thereof, metallic foil wrappings upon said material at each end of said rod, conical metallic cap members engaging the metallic foil wrappings, said last mentioned cap members conforming in shape to the interior contour of the first mentioned caps whereby said rod may be centrally positioned within said casing, and the conductive material thereon maintained in spaced relation to the interior walls of said casing.



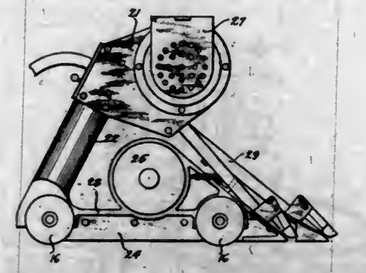
1,693,900. DIRIGIBLE HEADLIGHT. WALTER R. HOBB, New Ulm, Minn. Filed June 5, 1925. Serial No. 35,209. 1 Claim. (Cl. 240—62.)



In headlight adjusting mechanism of the class described, the combination with the steering column and steering post mounted therein, of a rotatable headlight support, a segmental rack supported for arcuate movement, operative connection between said rack and said headlight support for effecting rotation of the headlight support upon arcuate movement of the segmental rack, a worm pinion mounted upon the steering post and meshing with the rack, means for clutching the pinion with the post for rotation therewith comprising a sleeve slidably mounted upon the post, the pinion having sockets therein, clutch teeth carried by the sleeve and engageable in said sockets in one position of shifting adjustment of the sleeve upon the post, means connecting the sleeve with the post for rotation therewith and for sliding adjustment thereon, a guide block fixedly mounted upon the under side of the column adjacent the upper end thereof, the said block having a longitudinal passage therethrough parallel to the column, a rod slidably fitted at its upper portion through the passage in the said block and guided thereby for sliding movement beneath the column, a yoke at the lower end of the rod embracing the said sleeve and connecting the sleeve for movement with the rod, a bracket upon the column above the said block, an actuating hand lever pivoted at its upper end to the bracket and having a portion extending about the column and beneath the same, the upper end of the said rod being pivotally connected with the said portion of the hand lever, and means carried by the block and adjustable to coact with the said rod to hold the rod in positions of sliding adjustment in the block.

1,693,901. WASHER-SETTER SPOUT. EDWARD HUTCHINS, Milwaukee, Wis. Filed Apr. 2, 1926. Serial No. 99,218. 5 Claims. (Cl. 18—1.)

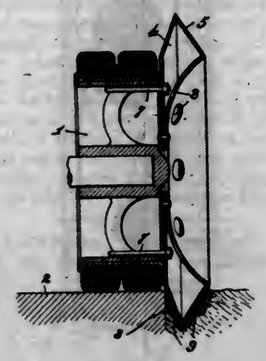
1. In a machine of the class described, washer feeding mechanism, washer chutes fed thereby having a narrow rail defining one side of the chute, and washer placing mechanism associated with said chutes comprising shoulders at the end of said chutes, side springs having bearings on the foremost washer in contact with said shoulders, and guiding means positioned beneath said chute adapted to lift and drop the chute over a mold pin with said mold pin projecting through the washer hole.



1,693,902. PROCESS FOR PRODUCING LITHOPONE FAST TO LIGHT. GUSTAV JANTSCH, Bonn-on-the-Rhine, and PAUL WOLSKI, Wiesdorf-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Filed Nov. 8, 1924, Serial No. 747,671, and in Germany Nov. 30, 1923. 2 Claims. (Cl. 134—78.)

1. Lithopone which is fast to light containing a cobalt salt in quantity corresponding to from 0.02% to 0.5% by weight of cobalt metal calculated upon the zinc content of the lithopone.

1,693,903. METHOD AND APPARATUS FOR MAKING ROAD EDGINGS. VERNON O. JOHNSTON, Lincoln, Ill. Filed Aug. 10, 1927. Serial No. 212,001. 3 Claims. (Cl. 94—2.)

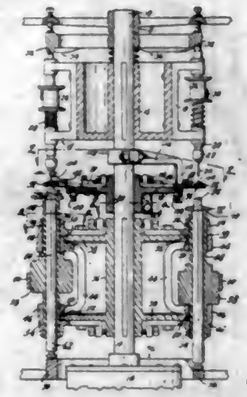


1. The method of forming road edgings which consists in compressing the ground adjacent the road shoulder to form a ditch and filling said ditch with suitable material, substantially as described.

1,693,904. CHUCK-POSITIONING DEVICE AND DRILL GUIDE FOR DRILLING MACHINES. HARRY H. KNOTT, Washington, Iowa. Filed Jan. 6, 1927. Serial No. 159,880. 8 Claims. (Cl. 79—12.)

1. In combination with a drilling machine having a reciprocably mounted chuck and a reciprocably mounted drill, a positioning and guide device therefor comprising a resilient positioning bar rigidly secured at one end and

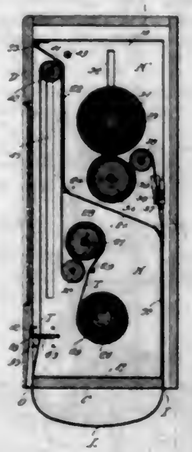
having an opening in the other end thereof, one end of said chuck being adapted to engage in said opening and move the free end of said positioning bar along substantially the axis line of the chuck when it is moved to one of its positions whereby the chuck is securely held in drilling posi-



tion by said positioning bar and due to the resiliency thereof, a guide plate adjacent said opening and an opening in said plate adapted to guide said drill when it is moved to one of its positions for drilling work held in the chuck.

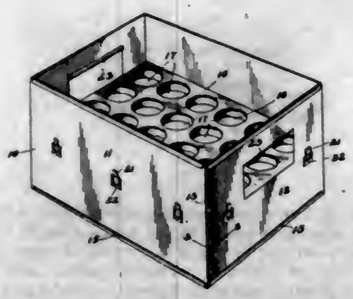
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1,693,905. TOWELING CABINET. JOSEPH D. LEVEILLE, Westfield, Mass. Filed Nov. 21, 1927. Serial No. 234,747. 22 Claims. (Cl. 312—38.)



1. In a toweling cabinet having a clean toweling magazine; a toweling-engaging member, means mounting said member whereby it is movable in one direction under the influence of a pull on the toweling permitting withdrawal of a clean length of such toweling from the cabinet, means for preventing travel of the toweling from the magazine when said member moves in said one direction, means for releasing said travel-preventing means and means for preventing retrograde movement of the withdrawn length of toweling, whereby return of said member to normal position after use of the toweling serves to withdraw a clean length of the toweling from the magazine into a portion of the cabinet preparatory to subsequent withdrawal for use, and means for effecting said return of said member to normal position.

1,693,906. SHEET-METAL CRATE. CARL L. LIPPINCOTT, Newark, Ohio. Filed Oct. 19, 1925. Serial No. 63,268. 2 Claims. (Cl. 220—21.)



1. As a new article of manufacture, a sheet metal bottle case including parallel side and end walls, a horizontally disposed bottle receiving tray arranged horizontally within said case, and tongues projecting from the edges of said tray and arranged to pass through openings provided in said side walls, each of said tongues including minor and major sections, adapted to be bent in opposite directions.

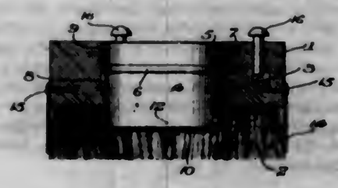
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1,693,907. MANUFACTURE OF CROTONALDEHYDE FROM ACETALDEHYDE AND ALDOL. EMIL LOSCHER, Basel, Switzerland, assignor to The Company Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Filed Apr. 25, 1927, Serial No. 186,591, and in Switzerland May 4, 1926. 1 Claim. (Cl. 260—138.)

A process for the manufacture of crotonaldehyde from acetaldehyde and aldol, consisting in combining acetaldehyde in an atmosphere of nitrogen with only such a quantity of a diluted aqueous solution of a caustic alkali as to not cause any precipitation on subsequent neutralization, then adding a mineral acid to the reaction product to obtain a reaction mixture containing aldol, acetaldehyde and a little salt, and finally distilling fractionally this reaction mixture without previous purification or separation within a circulating atmosphere of nitrogen.

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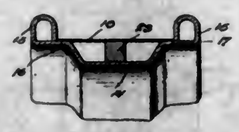
1,693,908. WAX DISTRIBUTOR FOR FLOOR-POLISHING MACHINES. THOMAS A. MARSHALL, Hagerstown, Md., assignor, by direct and mesne assignments, of one-half to The Floorola Corporation, Baltimore, Md., a Corporation of Delaware, and one-half to Ernest J. Newcomer, Baltimore, Md. Filed June 13, 1925. Serial No. 36,886. 9 Claims. (Cl. 91—39.)



7. An attachment for a floor polishing brush comprising a wax container having a rounded lower edge provided with discharge openings in the rounded portion thereof, the contents being discharged through said openings only, in a downwardly and outwardly direction.



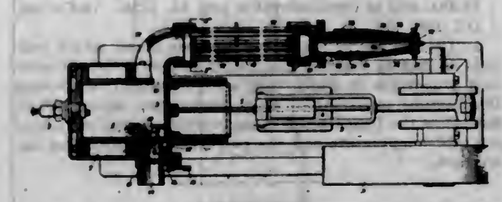
1,693,909. RIM FOR PNEUMATIC TIRES. ANDRÉ JULES MICHELIN, Paris, France, assignor to Michelin et Cie., Clermont-Ferrand, France, a Corporation of France. Filed Oct. 20, 1927, Serial No. 227,575, and in France Nov. 27, 1926. 1 Claim. (Cl. 152—20.)



A deep rim structure for wheels using pneumatic tires, comprising an annular trough shaped band provided with lateral flanges, a central deep groove located between and parallel to said flanges, and annular cylindrical shoulders at each side of said groove and between it and said flanges, with an annular metal strip having its edges resting on and supported on said shoulders and forming a cylindrical bridge for said groove throughout the major portion of its length circumferentially, said bridge having a smooth cylindrical outer face, a portion of said strip at the ends of said bridge being pressed down into said groove, with means interposed between the bridge portion of said strip and the bottom of said groove for bracing said strip against compression inwards when the wheel, with an inflated tire thereon, is in use on the road.

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1,693,910. METHOD OF AND APPARATUS FOR GENERATING THERMODYNAMIC ENERGY. HENRY RICHARDSON and ANTON HOLM, Passaic, N. J.; said Holm assignor to said Richardson. Filed May 3, 1921, Serial No. 466,439. Renewed Nov. 14, 1927. 3 Claims. (Cl. 60—32.)

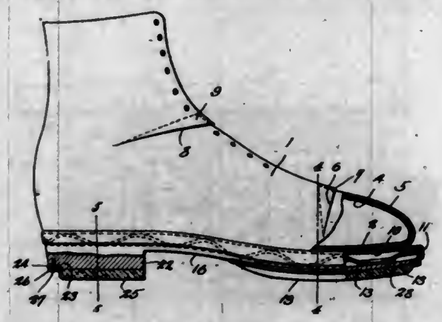


1. In combination with an internal combustion engine embodying fuel admission and exhaust ports, a tubular member connected to the exhaust port for the discharge of the exhaust gases from the engine therethrough and having escape means to allow the gases while above atmospheric pressure to escape from said member to the atmosphere but relieving the remaining products of combustion in said member at or below atmospheric pressure of back pressure from the atmosphere, thereby causing the exhaust gases discharged into said member to create a vacuum therein which will induct a fuel into the engine through the fuel admission port, and means for controlling the operation of said escape means and thus governing the degree of vacuum acting on the fuel admission port.

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1,693,911. SHOE. JAKOB SCHMEER, Washington, D. C. Filed June 19, 1928. Serial No. 286,562. 7 Claims. (Cl. 36—1.)

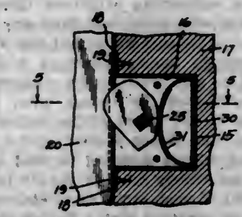
1. A shoe including an upper formed in a single piece of metal having an insole integral therewith, said upper being slit longitudinally from the top toward the toe and being slit transversely adjacent the toe and at the upper portion of the instep, said transverse slits providing lapping aprons for sliding contact during flexion of the shoe upper, a middle sole extending throughout the length of the insole and including upper and lower telescopically connected plates providing a space therebetween and cooperating to simulate the middle sole of a leather shoe, a heel extension carried by the lower plate of the middle sole, there being a marginal groove in the bottom portion of the heel extension and a marginal groove in the side and toe portions of the lower plate, an outer sole, a heel lift, sepa-



rate means for clamping the outer sole and the heel lift to the grooved portions of the plate and heel block respectively, and an undulating spring interposed between the members of the middle sole and extending throughout the length and width of the space therebetween.

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1,693,912. LATCH. WALTER E. WORTHEN, West Hollywood, Calif. Filed July 6, 1926. Serial No. 120,824. 7 Claims. (Cl. 292—204.)



1. A latch comprising a keeper having a slot therein inclined with respect to the vertical, a rotary bolt having its periphery formed to provide a beveled and rounded portion, another rounded portion spaced from the first portion, and two straight portions to form a corner, a spring engaging the second rounded portion of the bolt to normally urge the bolt into engagement with the keeper, and a shaft by which the bolt is rotated in one direction to move the bolt out of engagement with the keeper and in another direction to move the bolt into engagement with one wall of the cam slot for the purpose described.

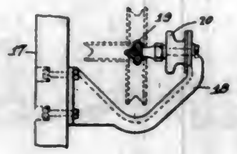
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1,693,913. FASTENER. VINCENT VOGEL, Chicago, Ill. Filed Nov. 25, 1927. Serial No. 235,599. 2 Claims. (Cl. 24—56.)



1. In a device of the class described and in combination, an elongated body part, yieldable curved wings extending from opposite sides of the body at one end, apposed loops at the other end, and an elastic strip having its ends extended through the loop and secured to the body, and its intermediate portion forming a loop for engagement with a supporting element.

1,693,914. TRANSMISSION OF POWER TO VEHICLES. ARCH UPSHAW AVERA, Florence, Ala. Original application filed July 13, 1922, Serial No. 574,724. Divided and this application filed May 24, 1923. Serial No. 641,102. 6 Claims. (Cl. 191—34.)



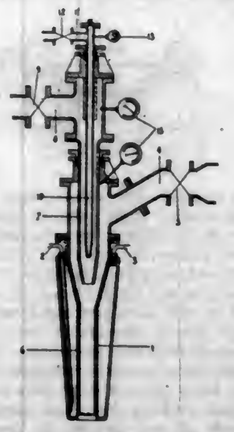
1. The combination of an electrically driven vehicle adapted to travel on a fixed way, a stationary power supply line extending along one side of said way and including a trolley wire, a supporting structure therefor on the opposite side of the wire from said fixed way, and means for connecting the said structure to that side of the trolley wire which is next to the fixed way, a trolley element adapted to travel on said trolley wire, comprising a rigid frame on the outside of the trolley wire, an arm extending therefrom to the inside of the trolley wire so as to clear the supporting means thereof, and a plurality of grooved contacting wheels mounted on said arm adapted to engage the same trolley wire in planes lying at such angles with respect to each other as to embrace the same and be held thereby, together with a flexible cable mechanically connected with said frame and electrically connected with said trolley wheels and having its free end extending to the vehicle and mechanically and electrically connected thereto, so as to trail the trolley frame and trolley wheels along the trolley wire as the vehicle progresses along said fixed way.

1,693,915. CARRYING OUT CATALYTIC OXIDATIONS IN THE GASEOUS OR VAPOR STATE. JOHANNES BRODE and ADOLF JOHANNSEN, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 25, 1927, Serial No. 186,565, and in Germany June 14, 1926. 6 Claims. (Cl. 260—122.)

1. In the catalytic oxidation of organic compounds, the step of bringing the gaseous mixture having undergone the reaction, prior to the separation of the reaction products and at a temperature at which no deposition of the desired reaction product occurs, into contact with a solid substance not altering its shape at the temperature of use and not giving rise to further conversion and contamination of the desired reaction product, and capable of removing impurities from the reaction mixture.

1,693,916. APPARATUS FOR THE MANUFACTURE OF PIG IRON. GASTON DE BETHUNE, Brussels, Belgium. Filed July 15, 1925, Serial No. 43,854, and in Belgium Mar. 5, 1925. 2 Claims. (Cl. 266—28.)

1. Apparatus for the introduction into furnaces of comminuted material, comprising a tuyère including two cylindrical portions of different diameters having an intermediate tapering portion, a channel delivering the material to the cylindrical portion of greater diameter, an injector delivering heated air to the interior of said tuyère below said channel, a second injector disposed coaxially on the interior of the first and delivering unheated air

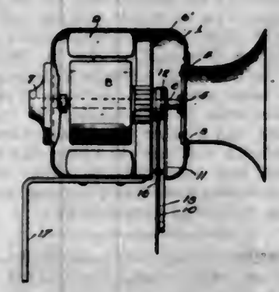


under pressure, the second cylindrical portion delivering material to the interior of the furnace having relatively great length and relatively small cross section and including means for cooling the walls thereof.

1,693,917. PROCESS FOR THE MANUFACTURE OF LINOLEUM COVERING MATERIAL. ALFRED EISENSTEIN, Schreckenstein, near Aussig-on-the-Elbe, Czechoslovakia, assignor of one-half to Georg Schicht A.-G., Aussig-on-the-Elbe. Filed Mar. 13, 1925, Serial No. 15,381, and in Czechoslovakia Jan. 16, 1925. 14 Claims. (Cl. 106—7.)

1. The process of producing linoleum mass, which consists in mixing together the liquid and solid constituents in a proportion in which they are pulverulent, subjecting the mixture to oxidation at a temperature above 70° C. but below the temperature of carbonization, and maintaining said temperature and the pulverulent condition of the mixture.

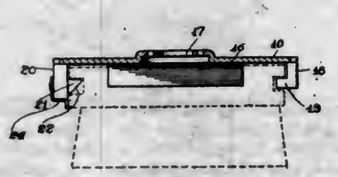
1,693,918. DIRECTION INDICATOR. HENRY E. ELROD, Santa Monica, Calif. Filed June 10, 1926. Serial No. 115,085. 4 Claims. (Cl. 177—324.)



1. A signalling device for automobiles comprising a shaft, means under the control of the driven for rotating said shaft in either direction at will, a normally vertical pointer loosely mounted on said shaft, an impositive connection between said shaft and said pointer, and stops to stop the pointer in a horizontal position in either direction, said impositive connection comprising means for producing an audible signal upon continued rotation of said shaft when the pointer is stopped in either horizontal position.



1,693,919. BRUSH HOLDER FOR FLOOR POLISHERS. LYLE N. GILLIS, Rose Crest, Va., assignor, by direct and mesne assignments, of one-half to The Floorola Corporation, Baltimore, Md., a Corporation of Delaware, and one-half to Ernest J. Newcomer, Baltimore, Md. Filed Feb. 12, 1924. Serial No. 692,299. 6 Claims. (Cl. 15—146.)



1. A rotatable brush holder for floor polishers consisting of a plate having a depending lug at one end provided with an inturned extremity, a latch housing depending from the plate at the other end wherein is mounted a latch having a bevel ended spring pressed bolt projecting toward the lug, and a thumb piece for drawing said latch backward against the spring.

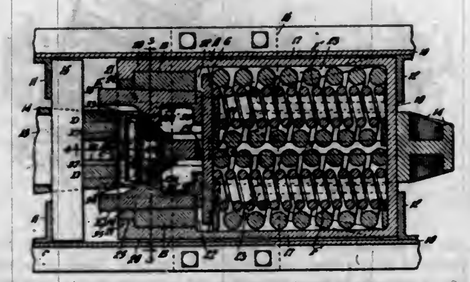
1,693,920. ADJUSTABLE CASTER. WILLIAM C. HARTMANN, Cleveland, Ohio. Filed Dec. 1, 1927. Serial No. 237,019. 3 Claims. (Cl. 16—19.)



1. In a caster, a vertical caster-carried shank having opposed flat sides at its upper portion, a nut threaded on the lower portion of said shank, and a tube resting on said nut and having a flat-sided slot in its upper end through which the flat-sided upper portion of said shank passes slidably but non-rotatably, the side portions of the tube under the ends of said slot having inwardly bowed spring tongues, said shank being provided with downwardly facing shoulders to contact with said tongues and prevent accidental disconnection of tube and shank.

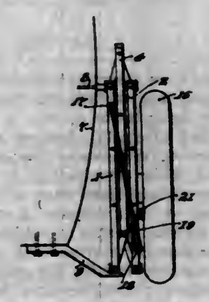
1,693,921. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago Ill., a Corporation of Delaware. Filed Sept. 2, 1927. Serial No. 217,233. 9 Claims. (Cl. 213—32.)

1. In a friction shock absorbing mechanism, the combination with a casing provided with opposed side walls and top and bottom walls; of a spring resistance within the casing; a pair of detachable liners mounted on the side walls of the casing; means for preventing relative longitudinal movement of said liners and casing, said liners being held against vertical displacement; a pair of friction shoes cooperating with the liners; a central friction post; a pair of wedge blocks on opposite sides of the post and relatively movable thereto, said wedge blocks having wedging engagement with the shoes, said wedge blocks,



shoes and liners being provided with interengaging means for holding all of said parts centered on the side walls of the casing and uniformly spaced from the remaining walls respectively.

1,693,922. LUGGAGE CARRIER FOR AUTOMOBILES. WILLIAM GORDON HERD, Drumheller, Alberta, Canada. Filed Apr. 4, 1927, Serial No. 180,921, and in Canada Dec. 14, 1926. 2 Claims. (Cl. 224—29.)

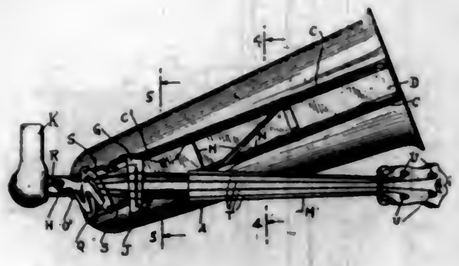


1. The combination in an automobile luggage carrier of a box shaped receptacle comprising one side in fixed relation to the automobile, a side in adjustable relation to the fixed side, pivoted links mounted on the said fixed and adjustable sides their other ends meeting in pivotal mountings on a mid-strap and combining with the mid-strap to form ends and bottom of the receptacle when open, a rim secured to the moving side adapted to carry an automobile tire.

1,693,923. COATING FOR MOLDS. ARTHUR J. HESS, Detroit, Mich., assignor to Earl Holley, Detroit, Mich. Filed Dec. 11, 1926. Serial No. 154,808. 2 Claims. (Cl. 22—189.)

1. A wash for protecting metal molds, comprising a mixture of a suspension of graphite and silica in kerosene mixed with a dilute solution of sodium silicate in water.

1,693,924. MUSICAL INSTRUMENT. JOHAN EMIL HILLEBRANDT, West Brighton, N. Y. Filed June 30, 1925. Serial No. 40,504. 8 Claims. (Cl. 84—296.)



1. A resonator for stringed musical instruments and the like comprising an outer wall and an inner tapering spaced wall, said outer and inner walls being split and the adjacent edges joined together along one side throughout the entire length and a center strip connecting said joined walls forming a support.

1,693,925. LIGHTING FIXTURE AND THE LIKE. DONALD HOLT, Chicago, Ill. Filed May 23, 1927. Serial No. 193,554. 5 Claims. (Cl. 240—73.)

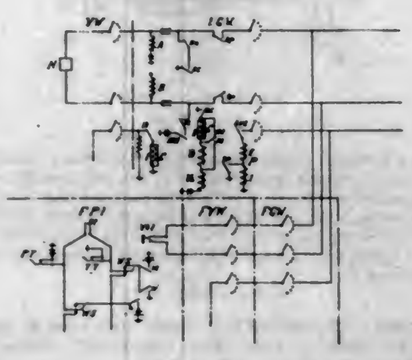


1. A device of the class described comprising in combination a pedestal member a vertical pin extending through and pivoted within the same to turn on a vertical axis, a clip surrounding and pivotally mounted upon the upper portion of said pin above the pedestal member, a pair of telescoping cup-shaped disks constituting a pedestal joint, the central portions of said disks being relatively close together as compared to their annular portions more distantly removed, a circular washer of rubber or the like located between said annular portions and concentric with the disks and in engagement with the inside faces of the disks, a central hollow pivotal member joining together the central portions of the disks and drawing them towards each other to thereby bring the disks into frictional engagement with the rubber block aforesaid, a rigid connection between one of said disks and the clip aforesaid, a clip secured to the other of said disks, a hollow extension arm secured to said clip, and a suitable conductor extending through the hollow pivotal joint connection and through the hollow tubular extension, substantially as described.

1,693,926. PROTECTION OF ANIMAL FIBERS AGAINST THE EFFECTS OF ALKALINE OR ACID MEDIUMS. RONALD SMITH HORSFALL and LESLIE GORDON LAWRIE, Blackley, Manchester, England, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Filed Oct. 31, 1927, Serial No. 230,177, and in Great Britain Nov. 16, 1926. 6 Claims. (Cl. 8—12.)

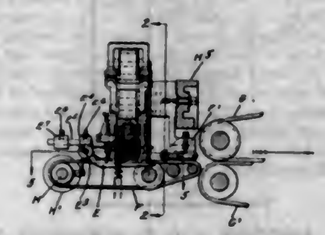
1. The improvement in processes for the treatment of wool, silk, fur and other animal fibrous material in liquid media consisting in the addition to the said media of a soluble condensation product of an urea with formaldehyde.

1,693,927. TELEPHONE SYSTEM. WALTER KROLL, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed July 31, 1926, Serial No. 126,252, and in Germany Aug. 15, 1925. 8 Claims. (Cl. 179—27.)



1. In a telephone system, a combination toll and local rotary connector for use by an operator or local subscribers, a group of private branch exchange lines, non-numerical switches having access to said lines, means for operating said connector to select one of said non-numerical switches, and means responsive to said selection for operating said non-numerical switch to connect with one of said lines.

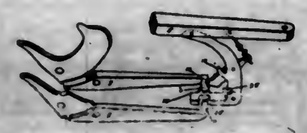
1,693,928. MACHINE FOR FEEDING BLANKS. HAROLD S. LABOMBARDE, Nashua, N. H. Filed June 15, 1923, Serial No. 645,663. Renewed Feb. 28, 1928. 19 Claims. (Cl. 271—18.)



1. A machine of the character described comprising means for feeding blanks successively in the direction of one axis of the blanks to form a pile; and means for feeding the blanks successively from the pile in the direction of the transverse axis of the blanks.



1,693,929. SINGLE-TRIGGER MECHANISM FOR DOUBLE-BARREL FIREARMS. CHARLES W. LINDSAY, Houston, Tex. Filed July 18, 1927. Serial No. 206,583. 4 Claims. (Cl. 42—42.)

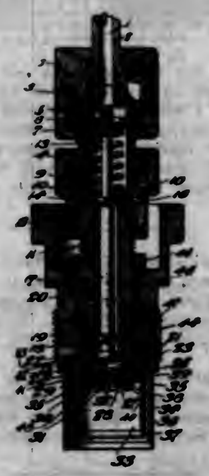


4. A single trigger mechanism for double barrel firearms, in combination with hammer sears and a common sear actuating means, a carrier-bar and controller-spring each pivoted in the top tang and mutually adjusted in weight and tension whereby premature firing of the second barrel is avoided, substantially as described.

1,693,930. METHOD OF IMPREGNATING WOOD WITH SUBSTANCES TOXIC TO ANIMAL AND BACTERIAL LIFE AND FUNGUS GROWTHS. CHARLES B. LIPMAN and AARON GORDON, Berkeley, Calif., assignors to Regents of the University of California, Berkeley, Calif., a Corporation. Filed Sept. 9, 1926. Serial No. 134,572. 6 Claims. (Cl. 99—12.)

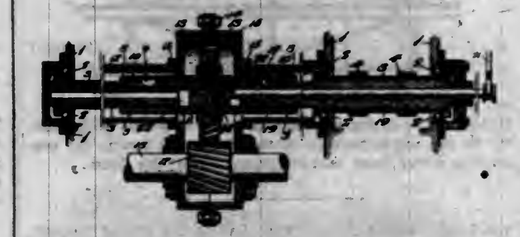
1. A method of protecting wood with a substance toxic to animal and bacterial life and fungus growth, which consists in injecting into living tree a toxic substance capable of distribution by the sap flow of the tree and permitting the toxic substance to be distributed throughout the entire cellular and fibrous structure of the tree by the actual sap circulation of the tree and then treating said structure to reduce and fix the toxic substance within the cellular and fibrous structure of the tree.

1,693,931. BURNER AND VALVULAR CONTROL THEREFOR. EDWARD L. LOWE, Palo Alto, Calif., assignor to J. W. Clune Co., Los Angeles, Calif., a Corporation of California. Filed Nov. 30, 1926. Serial No. 151,636. 20 Claims. (Cl. 123—33.)



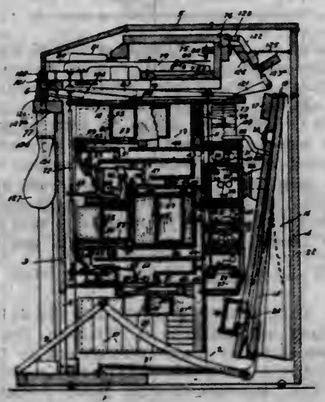
1. In a device of the character stated, the combination of a burner, a fuel passage leading thereto, an upwardly seating valve in said passage, a valve stem for said valve, means for holding said valve to its seat, and heads on said valve stem having inclined grooves therein whereby the passage of fuel to said burner past said heads tends to rotate said valve and its stem.

1,693,932. TIME CONTROL OF FUEL INJECTION FOR INTERNAL-COMBUSTION ENGINES. EDWARD L. LOWE, Palo Alto, Calif., assignor to J. W. Clune Co., Los Angeles, Calif., a Corporation of California. Filed Nov. 30, 1926. Serial No. 151,638. 6 Claims. (Cl. 123—139.)



1. In a timing control of the character stated, a hollow cam shaft, a cam mounted upon said shaft, a sleeve movable longitudinally of said cam shaft, a spiral gear fixed thereto, a constantly operating shaft actuated from the engine shaft, a spiral gear thereon for meshing with said first mentioned spiral gear, and a pull rod extending within said hollow shaft for moving said first mentioned spiral gear with respect to said second gear for changing the timing of said cam shaft.

1,693,933. ORGAN. STANISLAV MICHNIEVITCH, Los Angeles, Calif. Filed June 21, 1926. Serial No. 117,589. 37 Claims. (Cl. 84—351.)

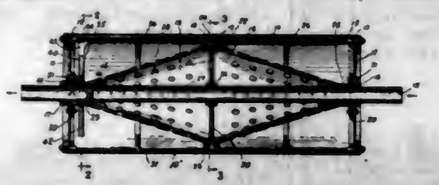


35. An organ comprising sound producing vibrators providing a plurality of organ stops, strikers for the respective vibrators adapted to impart greater vibration to the vibrators which produce notes of standard pitch than to the corresponding vibrators for the auxiliary organ stops, a wind box, valvular controls between the wind box and the respective vibrators, means for actuating the respective strikers and opening the respective valvular controls by corresponding respective keys, and means for varying opening of the respective valvular controls in accordance with the pressure upon the corresponding keys.

1,693,934. WATER EVACUATOR FOR DRIER DRUMS. WILLIAM H. MILLSPAUGH, Sandusky, Ohio, assignor to The Paper & Textile Machinery Co., Sandusky, Ohio, a Corporation of Ohio. Filed Jan. 19, 1922. Serial No. 530,484. 11 Claims. (Cl. 34—4.)

1. In combination, a rotary drum, an evacuator carried thereby and comprising a nonrotating conduit hav-

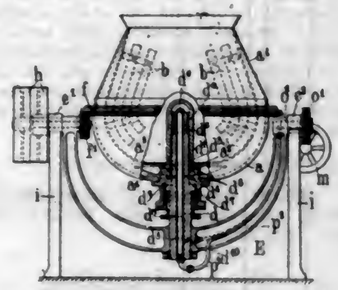
ing an inlet opening or mouth curved with reference to the axis of the drum and in a direction opposite to the ro-



tation of the drum, said mouth being disposed in proximity to the upper portion of the drum and means for conducting water from said evacuator out of the drum.

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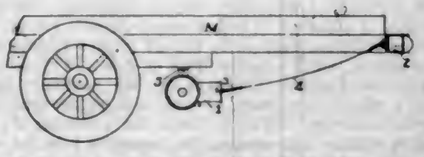
1,693,935. ROTARY MIXER. LAFAYETTE HENRY NELLES, London, England. Filed Feb. 25, 1928, Serial No. 256,988, and in Great Britain Nov. 16, 1926. 2 Claims. (Cl. 259—82.)



1. A mixing machine comprising a pair of spacedly arranged frame members, a yoke rotatably mounted in said frame members, a mixing drum rotatably mounted in said yoke and adapted to rotate about its vertical axis, stirring means in said drum, means for rotating said drum, means for rotating said yoke, a jacket disposed in said drum, conduit means in said yoke connecting with said jacket for supplying a medium to said drum, and a discharge conduit in said yoke for discharging said medium whereby said medium may be supplied to said drum and discharged therefrom during the rotation and tilting of said drum.

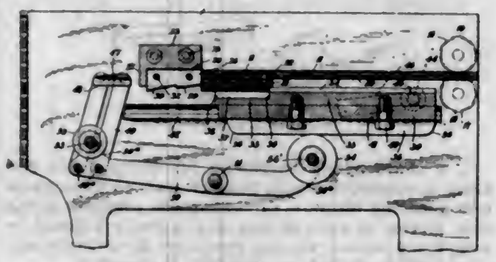
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1,693,936. TAIL LIGHT AND DANGER SIGNAL. SIMON D. PADDACK and CHARLES G. WILFORD, Los Angeles, Calif., assignors, by mesne assignments, to George D. Johnson, Los Angeles, Calif. Filed Nov. 3, 1923, Serial No. 672,524. Renewed Dec. 10, 1926. 7 Claims. (Cl. 240—8.18.)



1. A combined tail light and danger signal comprising a stationary casing, a reeled extension electric conducting wire mounted in the casing, an extension casing detachably connected to the stationary casing, a lamp carried in the extension casing and connected to said reeled wire, said extension casing adapted to be disconnected from the stationary casing and said reeled wire adapted to pay-out to admit the positioning of the extension casing at a point remote from the stationary casing, and a reeled attaching cord carried in the extension casing adapted to engage a support for maintaining the extension casing at a desired point.

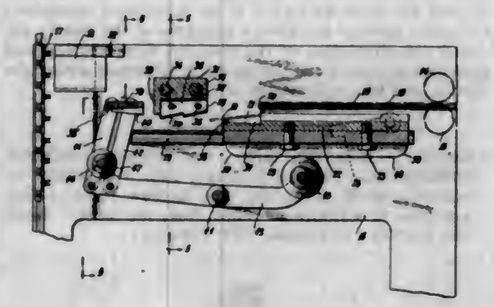
1,693,937. MACHINE FOR CUTTING MATCH SPLINTS, SAMUEL E. RAHE, Richmond Hill, N. Y. Filed Jan. 9, 1926. Serial No. 80,250. 25 Claims. (Cl. 144—54.)



1. A match splint machine having a cutter with thin fixed blades of different depths and inclined edges one behind the other, and spaced laterally the width of a match splint apart, and a pusher plate movable opposite the blade edges for feeding sheet stock across the cutter whereby the blades cut progressively through the stock.

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1,693,938. MACHINE FOR MAKING MATCH CARDS. SAMUEL E. RAHE, Richmond Hill, N. Y. Filed Feb. 9, 1926. Serial No. 87,042. 11 Claims. (Cl. 144—51.)



1. A machine for making match cards comprising a stock feed having an inclined stock holder with splint grooves therein, a series of thin spaced blades disposed so as to engage and cut edgewise through the stock for a part of its width thereby forming splints, and a member behind the blades grooved to mesh with the grooves in the holder and arranged to press upon the cut stock in the holder.

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1,693,939. IMPREGNATING SOLUTION. LAWRENCE V. REDMAN, Caldwell, N. J., and HAROLD C. CHEETHAM, Chicago, Ill., assignors to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 24, 1923, Serial No. 634,386. Renewed Feb. 23, 1928. 2 Claims. (Cl. 134—26.)

1. An impregnating solution comprising a potentially reactive phenolic resin capable of setting free ammonia during its transformation to the infusible state, and furfural in proportion at least sufficient to combine with the liberated ammonia.

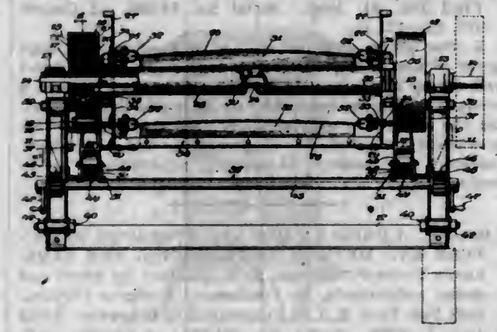
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1,693,940. SCREENING APPARATUS. SAMUEL DAVIS ROBINS, Woodmere, N. Y., assignor to Robins Conveying Belt Company, Passaic, N. J., a Corporation of New Jersey. Filed Apr. 12, 1927. Serial No. 183,049. 12 Claims. (Cl. 209—326.)

1. A screening apparatus comprising a screen frame, a drive shaft substantially co-incident with the center of



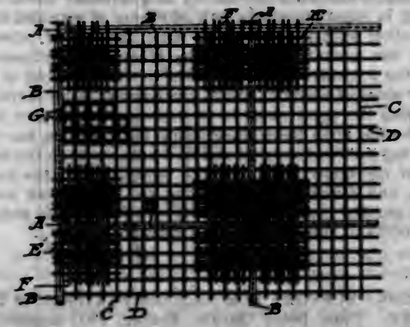
gravity of the said frame, stationary bearings for said shaft, connections between said shaft and frame whereby the frame is positively gyrated in circular paths lying in planes at right angles to the drive shaft, and resilient



equalizing means simultaneously acting in the same direction upon said frame beyond the respective sides of the shaft and operative to maintain the said frame constantly in correct screening position while permitting its positive gyration.

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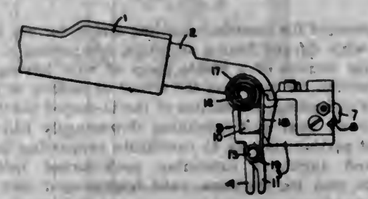
1,693,941. BUILDING CONSTRUCTION. KARL R. SCHUSTER, Hopatcong, N. J. Continuation of application Serial No. 854,571, filed Aug. 1, 1914. This application filed Dec. 9, 1921. Serial No. 521,269. 10 Claims. (Cl. 72—15.)



7. A steel-and-concrete structure embodying columns, tie beams extending between said columns, flat slabs, negative reinforcing rods in the areas surrounding said columns, and rods in the slabs co-operating with the tie beams and imposing substantially all the floor loads on said tie beams, said tie beams being connected to said columns, whereby the punching shear of the columns on said slabs is resisted.

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1,693,942. SPRING FOR THREAD-CUTTING LOOM TEMPLES. WALLACE I. STIMPSON, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 7, 1928. Serial No. 259,657. 6 Claims. (Cl. 139—303.)



1. A one-piece wire spring for operating the cutter member of a thread cutting loom temple comprising a co-



axial helical cylindrical coil and flat open spiral, the helical coil being adapted to fit snugly the usual stud on the temple head and terminating at its inner end in a tangential shoulder-engaging arm and merging at its outer end into the center coil of the spiral with the peripheral coil of the spiral terminating in a tangential arm adapted to engage at its free end the usual movable cutter member.

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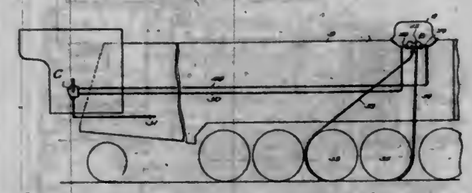
1,693,943. FLUID-PRESSURE BRAKE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 11, 1927. Serial No. 182,745. 10 Claims. (Cl. 303—59.)



7. In a fluid pressure brake, the combination with a brake cylinder, of a brake controlling valve device comprising valve means for controlling the supply of fluid under pressure to the brake cylinder, a movable abutment operated upon an increase in fluid pressure, for operating said valve means, a valve for controlling connection through which fluid under pressure is supplied to said movable abutment, a movable abutment subject to the pressure of fluid supplied to the first abutment for operating said valve, and a spring for opposing the fluid pressure on said second abutment.

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1,693,944. TRACK-SANDING APPARATUS. HARRY VISSERING, Kenilworth, and GUILFORD S. TURNER, Berwyn, Ill., assignors to Harry Vissering and Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1925. Serial No. 2,501. 12 Claims. (Cl. 291—5.)



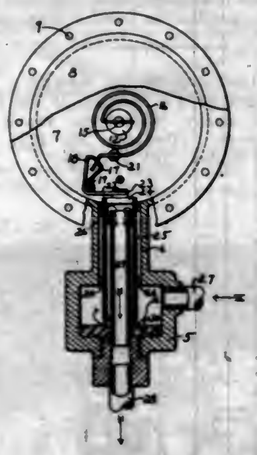
1. In sanding apparatus, the combination of a casing having an inlet in one side thereof for delivering sand transversely into the casing, a chamber for receiving the sand, an outlet chamber, and a longitudinally extending trap-conduit between said chambers, an air jet disposed in the receiving chamber to force sand through the conduit into the outlet chamber, an air jet disposed in said outlet chamber to impel sand therefrom, and a connection for delivering air under pressure to said jets.

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1,693,945. VALVE. GEORGE R. WILDERN, Detroit, Mich. Filed Jan. 28, 1927. Serial No. 164,265. 8 Claims. (Cl. 236—50.)

1. In a device of the class described, an inlet pipe and an outlet pipe, a common chamber into which said pipes

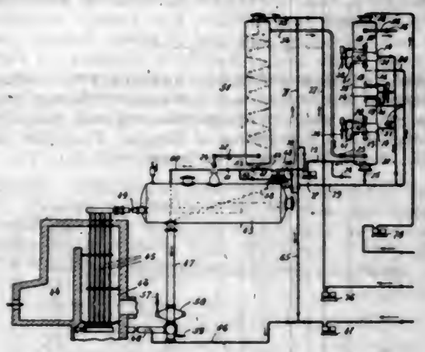
lead, a relatively heavy fluid held in said chamber subject to and movable as a body by pressure from fluid entering the intake and surrounding one of said pipes, a tube enclosing said latter pipe having a closed end extending



beyond the end of said pipe and movable to bring its other end into and out of said heavy fluid to make and break connection between said pipes and temperature responsive means for moving the tube.

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1,693,946. OPERATION OF PRESSURE STILLS. JOHN E. BELL, Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill., a Corporation of Maine. Filed July 26, 1924. Serial No. 728,307. 13 Claims. (Cl. 196—48.)



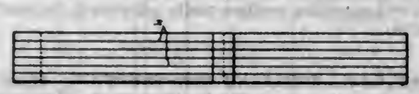
4. The improvement in the operation of pressure stills for cracking hydrocarbon oils and distillates, which comprises subjecting the vapors from the still to a refluxing operation in a zone separate from the vaporizing zone in direct contact with fresh charging stock to the still, returning the reflux and unvaporized charging stock introduced into the refluxing operation to that portion of the still stock which is to be immediately subjected to high temperature, passing the vapors from the refluxing operation successively through a series of separate vapor condensing chambers maintained at progressively lower temperature, passing fresh charging stock to the still in indirect heat interchanging relation with the vapors in the condensing chambers, refluxing a part of the condensate from chambers of lower temperature to chambers of higher temperature, and introducing preheated charging stock from the condensing chambers directly to the pressure still.

1,693,947. METHOD OF PRODUCTION OF SODIUM BI-SULPHATE. JOHN N. CAROTHERS and CHARLES F. BOOTH, Anniston, Ala., assignors to Federal Phosphorus Company, Birmingham, Ala., a Corporation of Alabama. Filed Dec. 31, 1925. Serial No. 78,696. 2 Claims. (Cl. 23—121.)

1. The herein described method of production of high grade sodium bi-sulphate, which consists in adding water and strong sulphuric acid to crude niter cake to yield a product containing approximately 85% bi-sulphate, heating the mixture to approximately 150° C., cooling to approximately atmospheric temperatures, and then disintegrating the resultant bi-sulphate, substantially as described.

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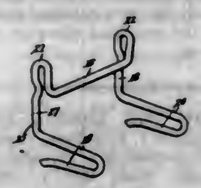
1,693,948. UMBRELLA RIB AND SPREADER STRUCTURE AND METHOD OF PRODUCING THE SAME. FRANK FABBRIN, Tallman, N. Y., assignor, by direct and mesne assignments, to Continental Products Corporation, New York, N. Y., a Corporation of Delaware. Filed June 7, 1926. Serial No. 114,325. 4 Claims. (Cl. 135—20.)



1. The herein described method of producing a set of hingedly connected umbrella rib and spreader units, consisting in superimposing a pair of sheets of material upon each other with the end of one sheet disposed at substantially the medial portion of the other sheet, adhesively securing a transverse flexible strip to the inner end of the upper sheet of material and to the lower sheet of material, swinging the upper sheet in an opposite direction to bend the flexible strip upon itself after the adhesive has set, applying a second strip of material adhesively to the inner end of the upper sheet and the upper face of the lower sheet, and simultaneously cutting the sheets and strips along parallel lines longitudinally of the sheets to provide a plurality of connected rib and spreader units.

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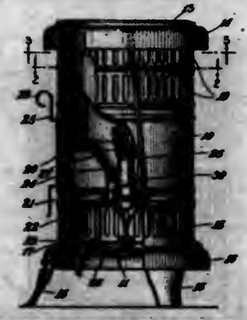
1,693,949. SUPPORT FOR NAILING STRIPS AND THE LIKE. FRED ISAAC GRIMM, Beaver, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1926. Serial No. 101,367. 3 Claims. (Cl. 72—101.)



1. A support for screeds or nailing strips, for use in connection with flanged beams or joists, comprising a chair-like device formed of a single piece of wire having a U-shaped portion for receiving the screed or nailing strip, the upwardly extending extremities of the U-shaped portion being reversely bent and extending downwardly below the U-shaped portion thereby to constitute supporting leg portions, and angularly extending hook-shaped feet connected to said leg portions, said hook-shaped feet being adapted to engage over and be supported by a flange of the beam or joist to position said U-shaped portion above the beam flange.



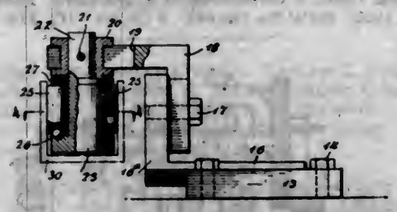
1,693,950. PORTABLE ELECTRIC HEATER. GEORGE D. HAUSER, Utica, N. Y., assignor to Utica Products, Inc., Utica, N. Y., a Corporation of New York. Filed July 1, 1926. Serial No. 119,820. 4 Claims. (Cl. 126—90.)



1. A heater comprising a body having top, bottom and lateral walls, a tubular shell extending from the top wall and forming with the lateral wall a chamber having its lower end open, a heating element at the lower end of said shell and an upwardly directed tapered reflector surrounding said heating element, said top wall having apertures through which said shell communicates directly with the atmosphere.

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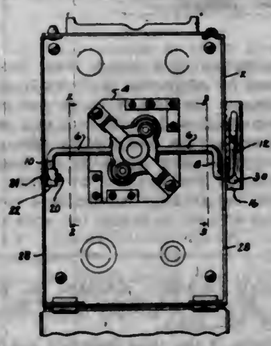
1,693,951. ATTACHMENT FOR BENDING MACHINES. RAYMOND L. HERMAN, New York, and GUSTAV F. SCHMIDT, Roslyn, N. Y. Filed Oct. 28, 1927. Serial No. 229,348. 4 Claims. (Cl. 153—54.)



2. A device adapted to be used in combination with a bending machine of the roll type, said device including a carrier having a pair of spaced recesses, rolling members rotatably supported in said recesses and means to secure said carrier to said machine with the axes of said rolling members located in the same plane as the axis of one of the rolls of said bending machine.

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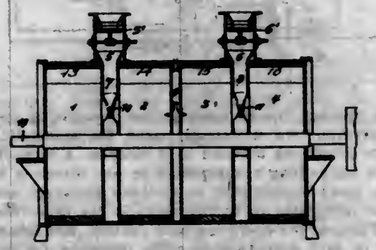
1,693,952. SAFETY SWITCH. ERNEST G. JOHANSSON, Boston, Mass., assignor, by mesne assignments, to The Palmer Electric & Manufacturing Co., Waltham, Mass., a Corporation of Massachusetts. Filed May 14, 1926. Serial No. 109,030. 3 Claims. (Cl. 200—168.)



1. In a safety switch, the combination of a casing having two opposing side walls, one of said side walls having an aperture, a bracket secured to the inside of the other wall and having a perforated portion spaced away therefrom, a crank having a bearing portion in said aperture and an inwardly turned end in line with the axis of said bearing portion and passing through the perforation in said bracket the wall adjacent to said bracket engaging a portion of said crank and holding said turned end within the perforation of said bracket.

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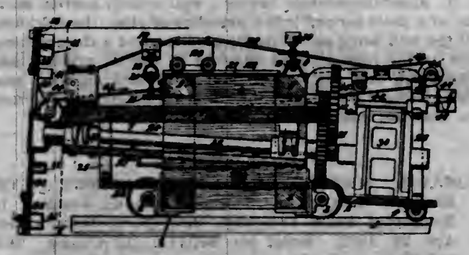
1,693,953. MACHINE FOR HUSKING, PODDING, BRUSHING, OR TREATING GRAIN. LEOPOLD KASPAR, Olmutz, Mahren, Czechoslovakia, assignor to Kasper Getreideschälmaschine G. m. b. H., Offenbach-on-the-Main, Germany. Filed Nov. 5, 1925, Serial No. 66,986, and in Austria Nov. 20, 1924. 6 Claims. (Cl. 83—30.)



1. A machine for treating grain comprising a plurality of treating chambers, arranged in pairs, charging conduits extending between the two chambers of each pair, the chambers of each pair having charging openings in fixed connection with the cooperating conduit, valves in said conduits for controlling the communication between the latter and its connected chambers, means for automatically operating said valves at predetermined time intervals, valves for controlling the charging operation both as to time and volume of the charge, and means for automatically operating said last named valves.

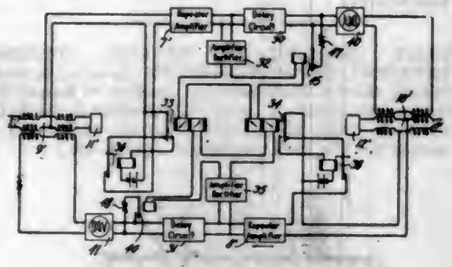
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1,693,954. TUNNELING MACHINE. HOWARD E. MARSH, Lompoc, Calif. Filed Oct. 7, 1924. Serial No. 742,122. 3 Claims. (Cl. 262—2.)



1. A tunneling mechanism including wheeled main and secondary carriages, the latter in rear of the former and provided with a frame longitudinally movable through and guidably mounted within the former to extend beyond the same, a rotatable face cutter and cut material elevating member at the free end of the frame, means mounted on the secondary carriage for rotating the cutter, a material conveyer on the secondary carriage extending rearwardly from the member for receiving cut and elevated material therefrom, means for operating the conveyer, means for releasably retaining the main carriage in position within a tunnel, and means for advancing the secondary carriage relatively to the main carriage and for retaining the secondary carriage in its adjusted position.

1,693,955. ELECTRIC-CURRENT TRANSMISSION. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1923. Serial No. 658,667. 17 Claims. (Cl. 179—170.)



5. A two-way transmission system comprising two two-wire circuits, two unilateral paths for transmitting in opposite directions between said circuits, a movable contact for controlling transmission in one direction in said system, means comprising an electron discharge amplifier rectifier responsive to transmission in the other direction in said system for operating said contact, and means connected in said path in said other direction for delaying transmission between two points close together in said path until said contact has operated.

1,693,956. MULTIPLE-PLY SANITARY METAL CAN. ARLINGTON MOORE, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1922, Serial No. 553,211. Renewed Apr. 19, 1928. 8 Claims. (Cl. 220—66.)



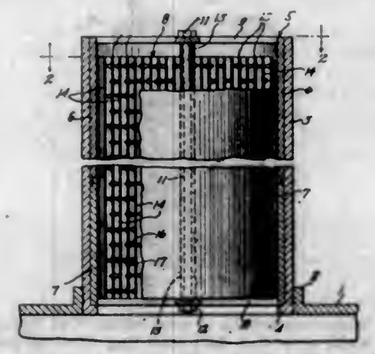
1. A metal container having a wall or body portion made up of a sheet formed into a plurality of plies, the thickness of the wall being substantially uniform, and a closure member having edge portions adjacent to and in intimate contact with end portions of said wall, said adjacent portions being turned over, interlocked and pressed together to seal the container.

1,693,957. METHOD OF MAKING BATTERY NUTS. ERASTUS G. OAKLEY, Southport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed Apr. 28, 1922. Serial No. 557,111. 11 Claims. (Cl. 10—86.)



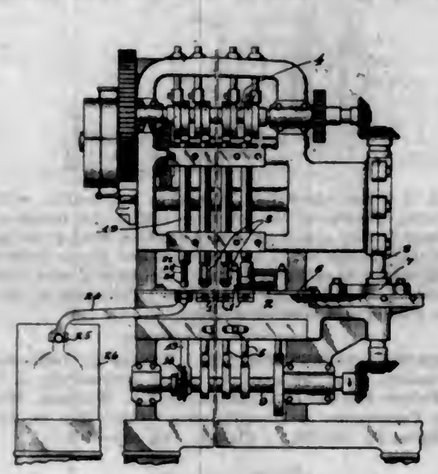
5. The method of making battery nuts or the like, which comprises heading and drilling through a given length of stock, beveling the unheaded end thereof and flaring out this end so that the beveled face assumes a position substantially parallel to the axis of the drilled bore.

1,693,958. BREATHER COVER FOR TANKS. JOHN S. PATTEN, Madison, N. J. Filed Sept. 2, 1926. Serial No. 133,095. 6 Claims. (Cl. 220—88.)



1. In a flame arresting breather cover for tanks, in combination, a core, a burred imperforate metallic sheet wrapped in volute spiral form thereon, and an imperforate sleeve surrounding and snugly fitting the outermost turn of said sheet.

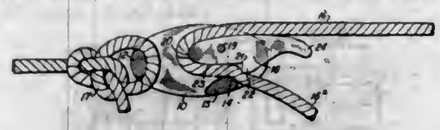
1,693,959. AUTOMATIC-MACHINE WORK TRANSFERRER. GUNNARD P. PETERSON, Naugatuck, Conn., assignor to The Risdon Manufacturing Company, Naugatuck, Conn., a Corporation of Connecticut. Filed Aug. 7, 1922. Serial No. 580,085. 9 Claims. (Cl. 113—113.)



1. The combination of a punch press having a main carrier organized for advancing the work from a die to an exchange station, a transfer work carrier mounted and operated to move back and forth from said exchange station to a delivery station and holding means comprising double plunger mechanism operative to hold the work during its exchange from carrier to carrier and during its release from the transfer carrier, said mechanism including plungers adapted to engage the work pieces.

1,693,960. LINE CLAMP. CHARLES E. RAMER, New York, N. Y. Filed Dec. 1, 1927. Serial No. 236,957. 4 Claims. (Cl. 24—133.)

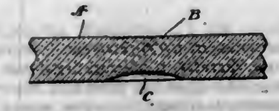
1. A line clamp of the class described comprising similarly formed and oppositely disposed side walls with a chamber therebetween, a pawl lock member pivotally supported within and between the side walls of said clamp and having a projecting prong-like part adapted to cooperate with a fixed member bridging the walls of said



clamp to crimp and secure one end portion of a line against displacement from said clamp, the inner end of said lock member having a rounded nose portion, around which said end of the line is looped and by means of which said prong is moved into operative position.

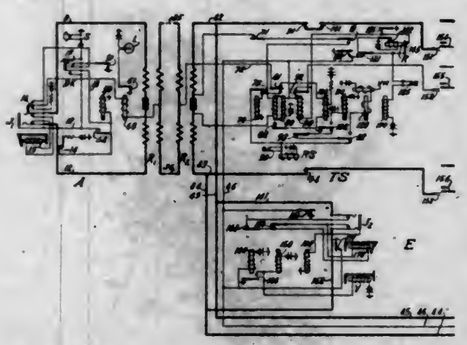


1,693,961. HÆMACYTOMETER COUNTING CHAMBER. OSKAR RISCH, Jena, Germany, assignor to Clay-Adams Co., Inc., New York, N. Y., a Corporation of New York. Filed Aug. 5, 1926. Serial No. 127,461. 3 Claims. (Cl. 88—40.)



1. A hæmacytometer slide or counting chamber provided with ruling on one side and with a visibility-increasing formation on the opposite side.

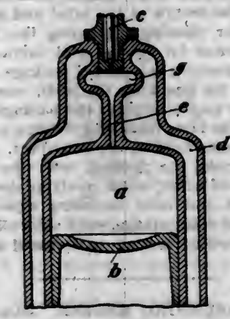
1,693,962. TELEPHONE SYSTEM. LEONARD L. RUGGLES, Wheaton, Ill., assignor to Reserve Holding Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 17, 1927. Serial No. 175,953. 15 Claims. (Cl. 179—27.)



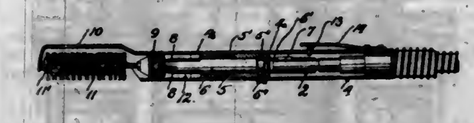
3. In a telephone system a trunk line, a condenser bridged across the talking conductors at one end thereof, a signal connected across the trunk to be operated thereover, and means effective upon the termination of a call over the trunk to momentarily provide a discharge path for the condenser exclusive of the signal, thereby preventing the signal from being operated by the condenser discharge.

1,693,963. HIGH-PRESSURE CRUDE-OIL MOTOR. ERNST SCHAEREN, Bern, Switzerland, assignor, by mesne assignments, to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. Filed Dec. 22, 1923, Serial No. 682,166, and in Switzerland Dec. 30, 1922. 1 Claim. (Cl. 123—33.)

In a solid-injection internal combustion engine, the combination with the engine cylinder, of an auxiliary combustion chamber of a width considerably in excess of its length, means for injecting the fuel into said chamber in the direction of its length, a passage, of a length considerably in excess of its width and of substantially uniform cross-section, connecting the chamber with the engine cylinder, and cooling means effective on said chamber and passage throughout their length.

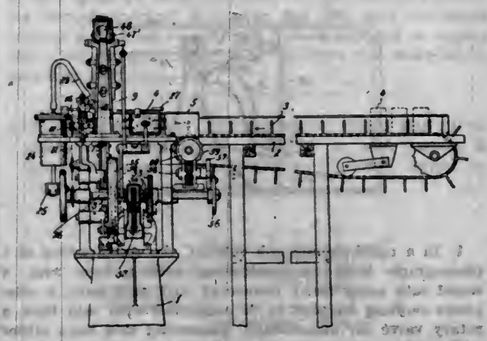


1,693,964. ROTARY TOOTHBRUSH. EDWARD F. SMITH, Los Angeles, Calif. Filed June 1, 1927. Serial No. 195,651. 3 Claims. (Cl. 15—23.)



1. In a device of the character described, a housing forming a handle and provided at one end thereof with a guard, a shaft within said housing and rotatable relatively thereto, a bearing within said housing, a stem extending through said bearing and removably conjoined at one end with said shaft and at the other end provided with a chuck, means engaging said stem to prevent disengagement thereof with said shaft, a brush journaled at one end in said guard and having its other end secured in said chuck, said housing having openings through which access may be had to said chuck for manipulating same and means to operate said shaft.

1,693,965. STAMP-AFFIXING MACHINE. JOHN DAVID SMITH and CHARLES RAYMOND PHILLIPS, Richmond, Va. Filed Feb. 7, 1927. Serial No. 166,279. 18 Claims. (Cl. 216—55.)

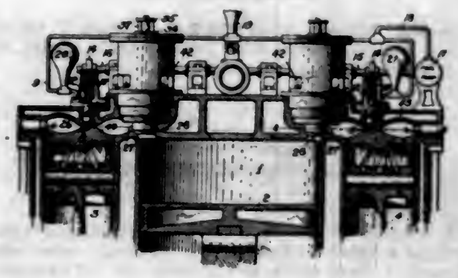


1. In a package labeling machine, the combination of a package mover, feeding mechanism for advancing the packages successively into labeling position opposite the

package mover, a label magazine, a label carrier for removing the labels from said magazine and carrying them one at a time to the package at the labeling position, said carrier having a pair of arms spaced from one another by approximately the length of the label and gripping means on said arms for yieldingly gripping the label near the ends thereof, means for moving said carrier to bring the label thereon opposite a face of the package at the labeling position, means for gumming the label, means for actuating the package mover to push the package between said arms and force the label from said yielding gripping means, said gripping means holding the label taut, and said package mover carrying the package with the label thereon beyond said spaced arms, and a receiving device for receiving the package and label including means for holding the label against the package, said device being mounted in stationary position beyond said spaced arms.

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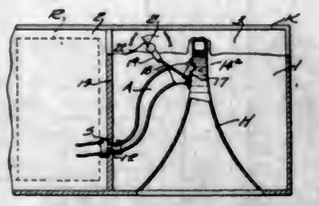
1,693,966. OIL-BURNING ENGINE. ELMER A. SPERRY, Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del., a Corporation of Delaware. Filed Sept. 26, 1919. Serial No. 326,654. 15 Claims. (Cl. 123—32.)



1. In a combustion engine, the combination with the combustion cylinder, of a clearance space at the end of the same having an hour-glass or dumb-bell section the lobes of which have a longer and a shorter axis and with its longer axis at a substantial angle to the axis of the cylinder and means for extruding fuel in the form of a jet directly along the axis of said section.

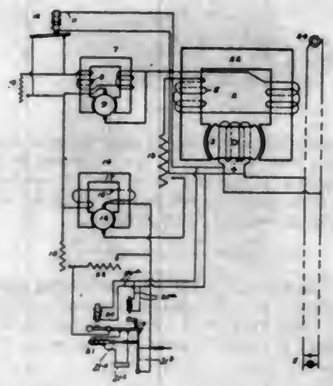
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1,693,967. COMBINED RADIO AND PHONOGRAPH CABINET. ADOLPH A. THOMAS, New York, N. Y. Filed Feb. 5, 1924. Serial No. 690,697. 25 Claims. (Cl. 179—100.1.)



1. In a radio-phonograph cabinet, the combination of a phonograph horn communicating with a tone arm, a sound tube acoustically connected with said horn, a telephone receiver adapted to be connected with said tube, a rotary valve for acoustically connecting said horn either with said tone arm or with said tube as a common sound amplifier for both, a vertically mounted rod for operating said valve, and a finger piece at the top of said cabinet for actuating said rod.

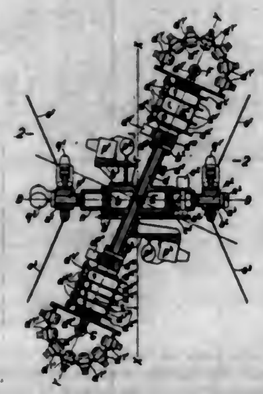
1,693,968. SYSTEM FOR EXCITATION OF SYNCHRONOUS-TYPE ELECTRIC MACHINES. PERCY H. THOMAS, Upper Montclair, N. J. Filed July 26, 1924. Serial No. 728,449. 21 Claims. (Cl. 171—119.)



1. The combination of a synchronous type electric generator, an exciter therefor, a voltage regulator, controlled by said generator and operating upon said exciter to maintain a predetermined voltage, a series wound generator connected in series with said exciter, a shunt for the field of said series wound generator and a circuit opening device in said shunt.

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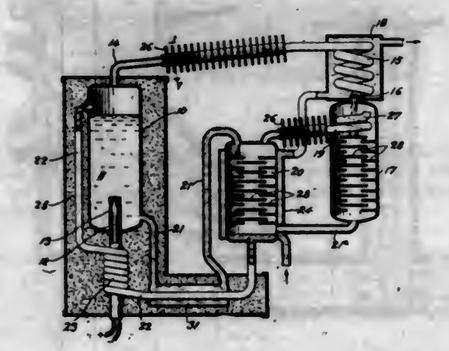
1,693,969. DEVICE FOR PROJECTING STARS. WALTER VILLIGER and WALTHER BAUERSFELD, Jena, Germany, assignors to Carl Zeiss (a Firm), Jena, Germany. Filed Dec. 3, 1925, Serial No. 73,019, and in Germany Dec. 11, 1924. 13 Claims. (Cl. 88—24.)



1. Device for projecting the fixed stars, containing a carrying appliance, a plurality of projection apparatus, each of which comprises an optical system and an image of a part of the fixed stars, which optical systems and images are so disposed that the projected images adjoin each other corresponding to the natural aspect, two hollow bodies, one group of the said projection apparatus being disposed at one and the other group being disposed at the other of these two hollow bodies, each hollow body containing a source of light common to all projection apparatus appertaining to this body, the said two hollow bodies being rigidly connected together and rotatably supported on the said carrying appliance, and means for rotating the said two hollow bodies.



1,693,970. REFRIGERATING APPARATUS. BALTZAR CARL VON PLATEN and CARL GEORG MUNTERS, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y., a Corporation of Delaware. Filed June 22, 1926, Serial No. 117,701, and in Sweden July 13, 1925. 25 Claims. Cl. 62—119.)



1. Refrigerating apparatus of the constant pressure absorption type comprising a generator containing a cooling agent dissolved in absorption liquid, a condenser, an evaporator, an absorber, a conduit extending upwardly from said generator to said condenser, and means for providing radiating surface for limiting the maximum pressure to which the apparatus can rise and for condensing vapor of absorption liquid in said conduit comprising a series of air cooling fins surrounding said conduit.

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1,693,971. BORING MACHINE. STEFAN WAGNER, Los Angeles, Calif. Filed May 25, 1926. Serial No. 111,484. 1 Claim. (Cl. 144—110.)

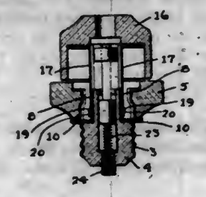


A boring machine comprising a casing, a sleeve journaled in said casing, a centrally disposed shaft journaled in said sleeve, provided with a gear, a plurality of irregularly spaced spindles journaled in said sleeve surrounding said centrally disposed shaft provided with gears meshing with the gear on said centrally disposed shaft, worm teeth on the periphery of said sleeve, a worm journaled in said casing adapted to engage with said worm teeth, and means for rotating said worm.

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1,693,972. ATTACHMENT PLUG. FRANK L. AIME, Spokane, Wash. Filed Dec. 9, 1921. Serial No. 521,110. 8 Claims. (Cl. 173—359.)

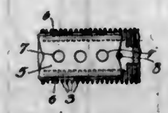
1. In an electrical attachment plug, the combination of a base and a cap adapted to be assembled, an electrical contact carried by said base, an electrical contact carried by said cap and adapted to initially engage said base contact as said base and said cap are brought together, and means in said base under which said cap



contact may be moved while still maintained in engagement with said base contact to prevent the abnormal withdrawal of said cap without deforming some part of the complete plug.

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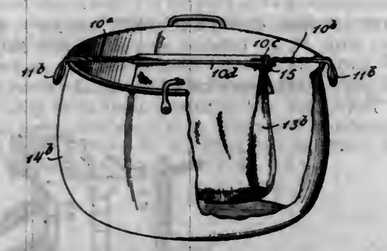
1,693,973. COMBINED COMB AND RAZOR. MAURICE ALLAND, Atlantic City, N. J. Filed Aug. 23, 1927. Serial No. 214,843. 3 Claims. (Cl. 30—12.)



1. A toilet article, comprising a hollow tubular comb, a razor blade positioned within said comb with its cutting edges exposed between the teeth of the comb, and a pin extending transversely thru said comb and movable longitudinally of the comb, to eject said blade.

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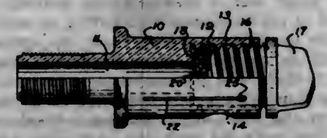
1,693,974. ATTACHMENT FOR COOKING UTENSILS. ANNA E. BIENSTOCK, Newark, N. J. Filed May 20, 1927. Serial No. 192,845. 2 Claims. (Cl. 53—1.)



1. A suspending device of the kind described, comprising parallel clamping members connected at one end, one of said members being continued in the form of suspending devices arranged to engage and rest upon the upper edge of a cooking utensil, and a hook adapted to engage the other clamping member to maintain the same in its operative position.

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1,693,975. SAFETY ATTACHMENT FOR FAUCETS. HENRY G. CORDLEY, New York, N. Y., and GEORGE R. LONG, Waterbury, Conn. Filed Apr. 6, 1927. Serial No. 181,483. 4 Claims. (Cl. 251—152.)

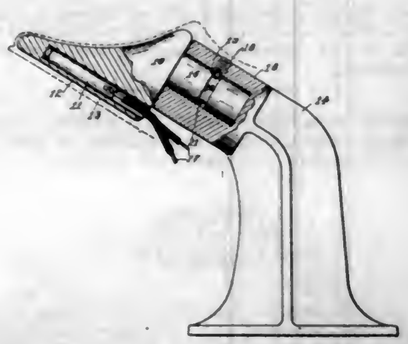


1. In a loss-preventing device for use with the screw threaded plug member of a faucet structure, a spring detent member mounted on the external surface of the bar-

rel, the wall of the barrel being provided with an opening therethrough in the threaded section thereof, said spring detent member extending through the opening into the interior of the barrel and engaging a thread of the plug member, and the screw threaded plug member being provided with a recess in its threaded portion whereby in a certain position of the plug within the opening the recess will be engaged by the detent to prevent further rotation of the plug member.

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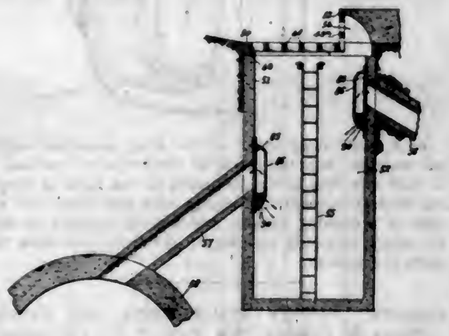
1,693,976. MECHANISM FOR MAKING TURN SHOES. MILTON L. DODGE, Newburyport, Mass. Filed Aug. 19, 1924. Serial No. 732,925. 6 Claims. (Cl. 12—133.)



1. A form for use in making shoes comprising a head shaped like the toe portion of a last and being recessed on its lower face between its edges to define a marginal rib, and means for carrying said head with capability of turning about an axis extending from heel to toe of a shoe on said form.

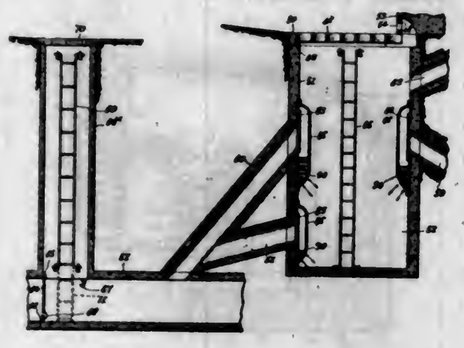
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1,693,977. SEWER CONSTRUCTION. GEORGE F. EGAN, Jersey City, N. J. Original application filed July 31, 1925, Serial No. 47,281. Divided and this application filed Apr. 9, 1926. Serial No. 100,988. 2 Claims. (Cl. 192—6.)



1. A sewer construction comprising a catch basin having an open upper end, a curb overlying partially the open upper end of the basin, said curb having an under-cut portion above the basin, a frame about the opening of the basin, and an open-work cover removably and pivotally mounted in said frame and comprising a substantially horizontal portion lying across the exposed portion of the opening of the basin and a shorter vertical portion extending flush with the curb line, said short vertical portion adapted to swing in said under-cut portion of the curb, the pivot point of the cover lying in the same plane with the horizontal portion of said cover.

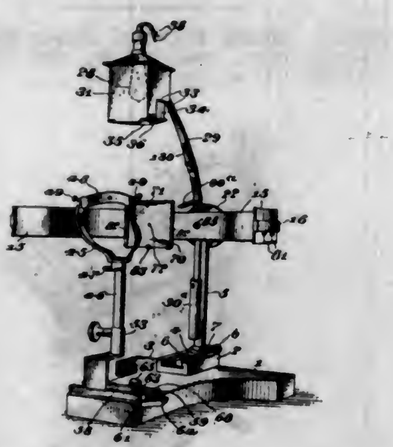
1,693,978. SEWER CONSTRUCTION. GEORGE F. EGAN, Jersey City, N. J. Original application filed July 31, 1925, Serial No. 47,281. Divided and this application filed Apr. 9, 1926. Serial No. 100,990. 3 Claims. (Cl. 182—3.)



1. A sewer construction comprising a basin having an outlet opening, a perforated inner door secured over said opening, and an outer door secured in spaced relation about the inner door and comprising an imperforate upper portion and a perforated lower portion.

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1,693,979. PERIMETER. CLARENCE ERROL FERREE and GERTRUDE RAND FERREE, Bryn Mawr, Pa. Filed Dec. 20, 1922. Serial No. 608,870. 23 Claims. (Cl. 88—20.)



1. A perimeter comprising a perimeter arm of arc shape, a light source located laterally of the plane of the arc of said arm, and means for supporting said light source in relatively fixed relation to said arm and in position to illuminate to the same degree all corresponding points in the observation surface thereof.

18. A perimeter comprising a fixation object, a lens interposed between said object and the eye of a patent which is being examined, and a perimeter arm having means thereon for examination of the eye while it is held on the said fixation object.

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1,693,980. SHOW CASE. CLARENCE W. GALE, Beatrice, Nebr. Filed Apr. 2, 1927. Serial No. 180,491. 2 Claims. (Cl. 312—119.)

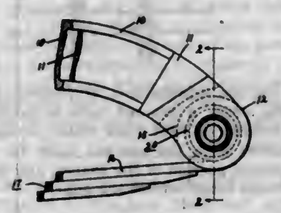
1. The combination in a show case having permanently closed ends and an open front, of a series of more than two relatively narrow vertically disposed merchandise receiving and displaying sections therein, each of said sections provided with vertically spaced horisontal shelves, and means



whereby each of said sections may be shifted lengthwise the interior of said case, the combined length of any two of said sections being substantially equal to the interior length of said case.

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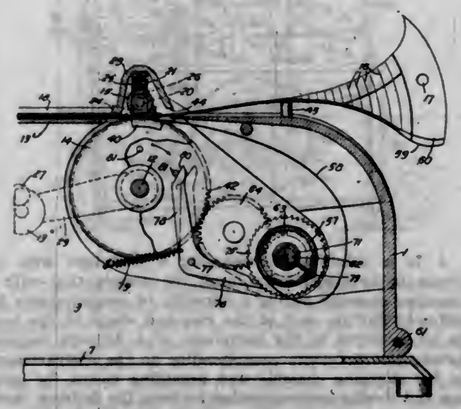
1,693,981. OSCILLATING JOINT. HARVEY D. GEYER, Dayton, Ohio, assignor to The Inland Manufacturing Company, Dayton, Ohio, a Corporation of Delaware. Filed Oct. 16, 1926. Serial No. 142,117. 7 Claims. (Cl. 267—54.)



1. In combination with the spring and frame of a vehicle, a shackle comprising: an eye member rigid with the spring, a shackle bolt through said eye and rigid with said frame, and a flexible rubber bushing arranged between said eye and bolt, said rubber bushing comprising a plurality of rubber members arranged side by side upon said bolt and confined in place under an initial compression.

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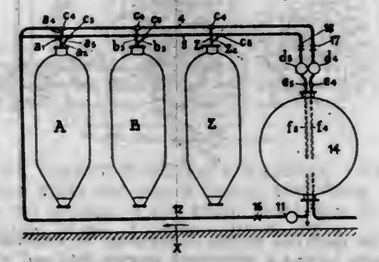
1,693,982. AUTOGRAPHIC REGISTER. LOUIS F. HAGEMANN, Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Filed Dec. 8, 1920. Serial No. 429,069. 41 Claims. (Cl. 282—16.)



2. A device of the character described comprising, in combination, means for feeding a plurality of webs, and for bringing the same into alignment, a web take-up device, means for driving the take-up device from the feed, including a spring adapted to exert resilient tension upon the web, and locking mechanism automatically operated for locking at intervals said take-up device against take-up action during feeding operation of said feeding means.

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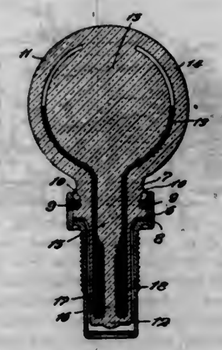
1,693,983. APPARATUS FOR BOILING CELLULOSE. CARL HANGLEITER, Mannheim-Waldhof, and ADOLF SCHNEIDER, Kelheim-on-the-Danube, Germany, assignors to the Firm: Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany, a Corporation of Germany. Filed Aug. 10, 1925, Serial No. 49,488, and in Germany Aug. 26, 1924. 2 Claims. (Cl. 92—7.)




1. In a system for completely and rapidly relieving the pressure in cellulose boilers and regenerating the waste heat and vapors, a boiler, an immediate connection between the waste gas-pipes and the liquor-pipes such that an injector is formed by which the hot waste gases are drawn out of the boiler without cooling them, a pump for passing the fresh liquor under pressure through the said injector, a closed storage-receptacle from which the liquor is taken by the pump and into which it is fed back after having passed the injector, and a check-valve between said injector and storage-receptacle.

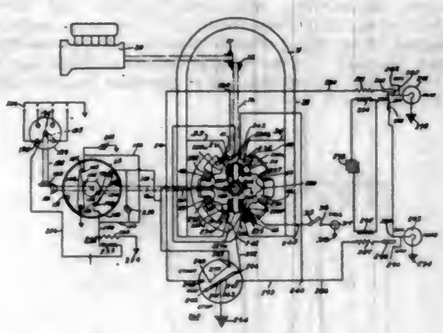
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1,693,984. SPHERICAL HEAT INDICATOR FOR AUTOMOTIVE INTERNAL-COMBUSTION ENGINES. HENRY C. HEBIG, Hoffmans, N. J., assignor to Harrison Hurlbert Boyce, Jericho, N. Y. Filed Apr. 29, 1927. Serial No. 187,433. 5 Claims. (Cl. 116—114.)



1. In a device for indicating the heat condition within a radiator, a unitary transparent casing formed with an indicating liquid chamber, and a core substantially the size of the casing extending across said chamber and fixed to said casing at each end, the intermediate space being substantially filled with a colored heat reacting liquid.

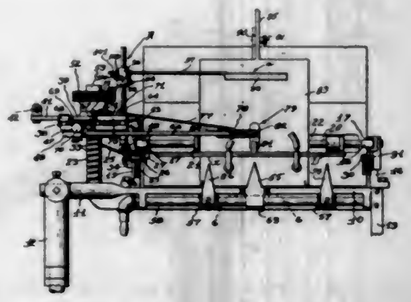
1,693,985. LIGHTING AND IGNITION SYSTEM. JOHN H. HUNT, Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Original application filed Oct. 25, 1924, Serial No. 745,942. Divided and this application filed Mar. 21, 1927. Serial No. 177,020. 3 Claims. (Cl. 123—148.)



1. An electrical system comprising, in combination, a generator having a permanent magnet field and windings for generating ignition current; an ignition transformer coil; a circuit paralleling the transformer coil and including a circuit breaker; a circuit including a circuit-breaker connecting the generator windings with said coil and paralleling circuit; and engine operated means for controlling the circuit breakers in order that, at a certain time, both breakers be in circuit closing position, that the first breaker will while the second breaker remains closed, and that the second breaker will open after the first breaker has opened, for the purpose specified.

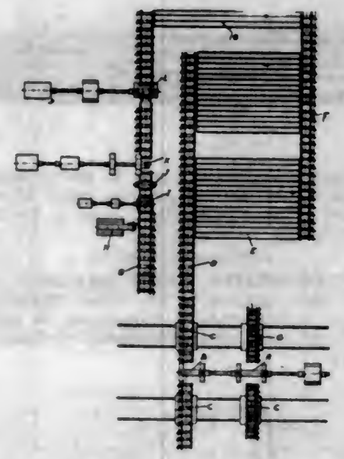
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1,693,986. FEEDING MAGAZINE FOR PRINTING PRESSES. ABEL KLUGE and ENEVAL KLUGE, St. Paul, Minn., assignors, by mesne assignments, to Brandtjen & Kluge, Incorporated, St. Paul, Minn., a Corporation of Minnesota. Filed Nov. 11, 1920, Serial No. 423,447. Renewed Dec. 11, 1925. 28 Claims. (Cl. 271—62.)



1. The combination with a sheet feeding element adapted to receive and take sheets from a given receiving position, of a support for a pack of sheets, a plate for advancing the pack on said support, mechanism for moving the plate and tripping means, operative during the intervals between the taking of sheets from the support, said tripping means being actuated by the pack for interrupting the action of said mechanism.

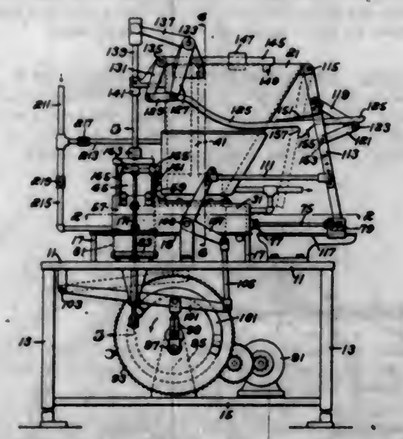
1,693,987. METHOD OF AND APPARATUS FOR THE MANUFACTURE OF STRUCTURAL SHAPES. CARL W. A. KOELKEBECK, Pittsburgh, Pa. Filed July 9, 1925. Serial No. 42,414. 9 Claims. (Cl. 29—33.)



1. A mill for the manufacture of structural shapes, including rolling units, a run-out table arranged to receive the finished product of said units while the same is hot, a punch associated with the run-out table for removing a part of the central portion of the shapes, and finishing rolls along the run-out table beyond the punch.

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1,693,988. ICE-CREAM-PACKAGING MACHINE. FREDERICK X. KUHN, Waltham, Mass., assignor to Kuhn Ice Cream Machinery Co., Boston, Mass., a Corporation of Massachusetts. Filed Dec. 10, 1926. Serial No. 153,847. 18 Claims. (Cl. 226—100.)



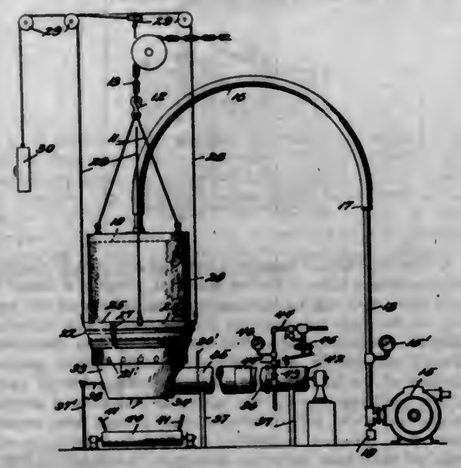
1. In a machine for charging a container with ice cream in hardened body form, the combination with a charging chamber having a plurality of compartments for different flavors, each of the size and shape of the body to be delivered to the container, of a delivery chamber having compartments corresponding to the compartments in the charging chamber and providing means for opening and closing communication between the delivery chamber and charging chamber, a supply chamber having compartments communicating with the compartments of the delivery chamber, means comprising pushing devices for forcing the cream from the supply chamber to the delivery chamber, means also comprising pushing devices for forcing the cream from the delivery chamber to the charging chamber, means for opening and closing the mouth of the charging chamber, means for forcing the formed bodies of ice cream in the charging chamber from the latter into the container, the same comprising an expressing device movable in the charging chamber to expel the formed bodies of ice cream, means for progressively hardening the ice cream as it advances through said several chambers, and means for maintaining the walls of said chambers clear of the accumulations of hardened ice cream, the same comprising scraping devices associated with said pushing and expressing means.

3. In a machine for charging a container with ice cream in a relatively stiff, form-retaining condition, the combination with a charging chamber of the size and shape of the body to be delivered to the container, of means for delivering the ice cream into said chamber to form the same therein, means for cutting off the delivery, an expressing device movable in the charging chamber to expel the formed body of ice cream into the container and means for lowering the temperature of the ice cream in the machine to cause the same to leave the machine in a relatively stiff condition.

11. In a machine for charging a container with ice cream in a relatively stiff and hardened form, the combination with a source of supply, of means for delivering to the container successive charges of ice cream from said source, means for maintaining a relatively low temperature about the ice cream while in the machine, and pusher devices to advance the ice cream having means for clearing the walls of the accumulations of hardened ice cream.

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1,693,989. METHOD OF AND APPARATUS FOR TREATING TOBACCO. WILLIAM MILLIGAN and WILEY E. PALMER, Richmond, Va., assignors to The Imperial Tobacco Co., of Great Britain and Ireland, a Corporation of Great Britain and Ireland. Filed July 25, 1925. Serial No. 46,056. 20 Claims. (Cl. 131—60.)



1. The method of treating a prized mass of tobacco in the closely packed condition it is received from the usual hogshead, which consists in subjecting the closely packed mass for a suitable period to the action of a conditioning agent under positive draft through the mass, whereby the mass is ordered to permit free handling without breakage.

7. An apparatus of the class described comprising means for enclosing a closely packed mass of tobacco in the condition it is received from the usual hogshead, and a common means for supporting said mass and for passing a conditioning agent therethrough under positive draft.



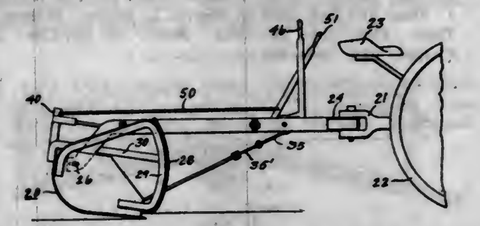
1,693,990. EYEBROW PENCIL. ELLEN D. PAYNE, Brooklyn, N. Y. Filed Feb. 28, 1928. Serial No. 257,668. 1 Claim. (Cl. 132—79.)



A device of the class described including an eyebrow pencil pointed at one end, a sleeve secured to the other end and projecting therebeyond, and brush bristles gripped by the sleeve, said sleeve constituting a bridle.

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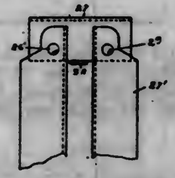
1,693,991. EARTH-WORKING APPARATUS. WILLIAM ALBERT PERRY and GEORGE DANIEL TOY, Sidney, Ohio; said Toy assignor to said Perry. Filed Mar. 20, 1925. Serial No. 16,946. 9 Claims. (Cl. 37—140.)



1. An earth working machine having an earth scraper, draft means pivotally connected with said earth scraper, a flexible means connected with said scraper at opposite sides of the pivotal connection, and means cooperating with said flexible means to control the operation of said scraper.

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1,693,992. HINGE. UNO G. PETERSON, Salt Lake City, Utah. Filed Mar. 5, 1925. Serial No. 13,096. 2 Claims. (Cl. 16—163.)



1. A hinge of the character described comprising a body member and two section members, each of said section members fitting over said body member in such a manner that said body member will rest under the under face of said section members when extended, an inner plate secured to each inner side of said body member, means on said inner plates for receiving the ends of said section members when extended all substantially as set forth.

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1,693,993. CUFF LINK. VICTOR B. ROGERS, Buffalo, N. Y. Filed Oct. 9, 1926. Serial No. 140,489. 1 Claim. (Cl. 24—102.)

A cuff link comprising a pair of heads each composed of a back section and a face section secured at its edges

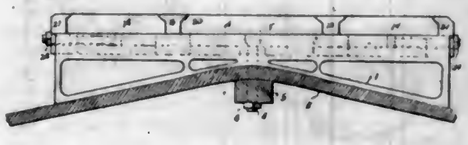
to said back section, said back section being formed to provide a relatively large rearwardly extending tubular housing the rear end of which is open to the interior of the head and the outer end of which is provided with an inwardly turned retaining flange, a plurality of tubular telescopic sections arranged between said housings and adapted to be completely housed therein and the outer section having outwardly extending flanges engaging the inturned flanges of said housing, said sections and hous-



ings being freely rotatable relative to each other, a straight bar loosely arranged in each of said heads and extending transversely across the opening formed by said housing, said bar extending along the greatest dimensional line of said head and substantially from one side to the opposite side thereof, and a spring housed within said housings and telescopic sections and having loops at its opposite ends each of said loops embracing the corresponding bar.

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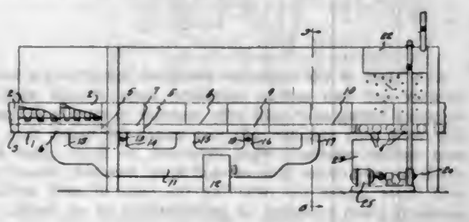
1,693,994. RUNNING-BOARD SADDLE. BENJAMIN F. ROWLEY, Jackson, Tenn., assignor of one-third to Walter J. Allen and one-third to Travis L. Bishop, Jackson, Tenn. Filed June 29, 1927. Serial No. 202,329. 2 Claims. (Cl. 105—457.)



1. Means for securing running boards comprising a body conforming to a car roof and adapted to be secured thereto and provided in its upper portion with channels opening through its ends and extending inwardly therefrom and terminating short of the center thereof, jaws slidably seated in said channels and provided with transverse heads resting upon the top surface of the body, and securing devices anchored in the body adjacent the respective outer ends thereof and engaging with the outer jaws whereby to clamp all the jaws and the running boards firmly together.

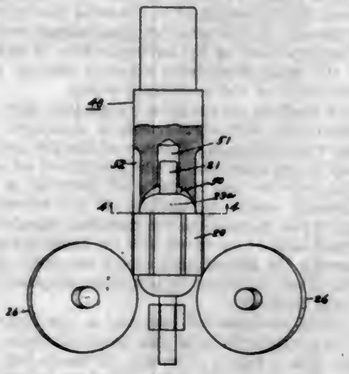
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1,693,995. BOTTLE COOLER. HENRY B. WILLIAMS, Detroit, Mich., assignor to John W. Ladd Co., Detroit, Mich., a Corporation of Michigan. Filed Sept. 2, 1925. Serial No. 54,104. 9 Claims. (Cl. 62—1.)



5. In a machine for cooling heated articles formed of fragile material, means providing a bath of moisture laden air, means providing a bath of moisture absorbing air, and means for submitting the articles to the said baths in succession whereby rapid evaporation on the surface of the articles and consequent cooling thereof is produced.

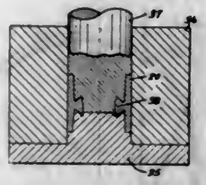
1,693,996. ARMATURE-INSULATION-CUTTING MACHINE. RUSSELL W. BAKER, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 15, 1926, Serial No. 94,991. Renewed Sept. 15, 1927. 7 Claims. (Cl. 164—60.)



4. An armature core insulation cutting machine comprising, in combination, means for guiding the core, means for moving the core endwise through the guide and means entering the core slots and cooperating with the core teeth simultaneously to cut the insulation at adjacent edges of side by side core teeth.

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1,693,997. METHOD OF MAKING COMMUTATORS. JOHN J. CARTER, Lansing, Mich., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 21, 1925. Serial No. 31,959. 2 Claims. (Cl. 29—155.5.)



1. The method of making a commutator which consists in providing a tube of ductile material, forming a flange in said tube, dove-tail in cross-section, by deforming the portion of the tube adjacent the inner periphery by applying pressure longitudinally of the tube and against both ends toward the center, slotting the tube through a greater portion of its length so as to provide segments of equal width, held together by the unslotted ring-shaped portion at one end of the tube, placing a shaft in said tube, coaxial therewith, pressing insulating, binding material into said tube so that said material surrounds the shaft and fills the space within said tube and its slots, then cutting off the ring-shaped, unslotted end of the tube.

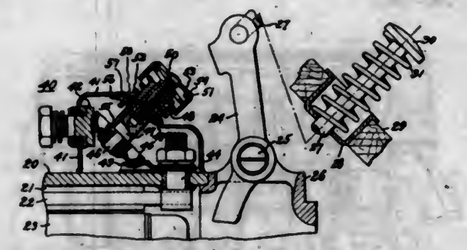
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1,693,998. ELECTRIC SWITCH. WILLIAM A. CHRYST, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 25, 1926, Serial No. 97,274. Renewed May 19, 1928. 14 Claims. (Cl. 200—159.)

1. A switch comprising, in combination, stationary and movable contacts, a slidable rod supporting the movable contact, a switch operating member having screw threaded



engagement with said rod, a spring for maintaining said movable contact out of engagement with the stationary contacts, and means including said spring and provisions



carried by the switch operating member for yieldingly maintaining said member in adjusted position relative to the rod.

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1,693,999. PROCESS FOR FILLING BOILERS FOR CELLULOSE WITH SULPHITE SOLUTION. HANS CLEMM, Mannheim-Waldhof, Germany, assignor to Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany, a Corporation of Germany. Filed Jan. 12, 1921, Serial No. 436,851, and in Germany Sept. 4, 1920. 4 Claims. (Cl. 92—7.)

1. An improved process for filling cellulose boilers consisting in forcing heated sulphite liquor by means of a pressure pump into a closed boiler, said liquid being of such a concentration that it can be used immediately for the digesting operation.

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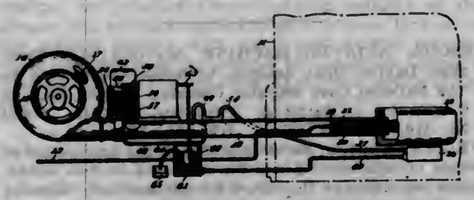
1,694,000. BOILER STAND. CHARLES F. COLE, Huntington, W. Va. Filed Apr. 9, 1923. Serial No. 630,694. 3 Claims. (Cl. 248—41.)



1. A boiler stand having a series of equidistantly spaced legs, each leg comprising a vertical tubular post having its upper end longitudinally split to provide a pair of tongues, one of said tongues being bent to close the upper end of the tubular post and the other of said tongues being lapped over the closed end of the tube and projecting to one side thereof to provide a supporting arm for the lower edge of the boiler.

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1,694,001. HEATING SYSTEM. DUNCAN DANA, Marblehead, Mass. Filed Oct. 23, 1923. Serial No. 670,287. 14 Claims. (Cl. 158—28.)



1. In a heating system comprising a furnace, a fire box for the furnace, means for supplying heating fuel to the fire box, means for supplying starting fuel for igniting the heating fuel, an air blower for projecting air and the heating fuel into the fire box, a heating coil for vaporizing the starting fuel, a spark coil for igniting the vaporized starting fluid and producing a pilot flame for automatically lighting the heating fuel, a large hole in the fire box through which the pilot flame extends, a drain box for clearing the fire box of excess liquid fuel, and a heating chamber in the drain box in which the heating and lighting coils are located for the purpose specified.

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1,694,002. SASH OR STORE-FRONT CONSTRUCTION. ARCHIBALD H. DAVIS, Lincoln, Nebr. Filed Nov. 2, 1926. Serial No. 145,824. 13 Claims. (Cl. 20—56.4.)



1. In a sash or store front construction, the combination with a front moulding, of a flexible hinging tensioning and cushioning bearing member located back of said front moulding and anchored rearwardly of its outermost part, said bearing member being otherwise free to flex throughout its extent, and fastening means connecting said bearing member to the front moulding.

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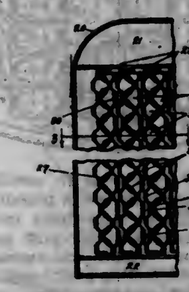
1,694,003. SASH, DOOR, OR STORE-FRONT CONSTRUCTION. ARCHIBALD H. DAVIS, Lincoln, Nebr. Filed Feb. 23, 1928. Serial No. 256,433. 10 Claims. (Cl. 20—56.4.)



1. In a sash, door, or store front construction, the combination with a rear section, of a front section whose lower part is fulcrumed on the rear section, and having its upper part adapted to bear on the pane, the intermediate part of the front section being adapted for a sliding, braking, contact with the rear section.

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1,694,004. RADIATOR. NICHOLAS DIAMANT, Jamestown, N. Y., assignor to Jamestown Car Parts Mfg. Co., Inc., Jamestown, N. Y., a Corporation of New York. Filed Dec. 3, 1923. Serial No. 678,106. 2 Claims. (Cl. 257—128.)

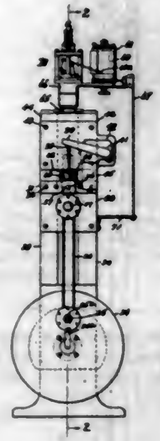


2. A radiator comprising a series of corrugated wall strips, two of said wall strips being spaced apart to form

a water passage therebetween, a series of corrugated metal division plates of single thickness so arranged between adjacent walls of said water passage that the summits of the corrugations of said division plates cooperate with said wall strips to form horizontal air conduits substantially diamond shaped and having protrusions therein projecting into said air conduits, said wall strips thereby providing freer passages for the water in said water conduits and increasing the turbulence of the air passing through said air conduits.

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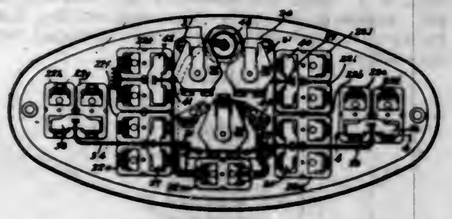
1,694,005. MACHINE FOR TESTING SHOCK ABSORBERS. GEORGE W. ELSEY, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1926. Serial No. 112,264. 9 Claims. (Cl. 73—51.)



1. Apparatus for testing shock absorbers comprising, in combination, a pair of relatively movable members, one member being adapted to support the shock absorber and the other adapted to be attached to the operating part of the shock absorber, means for producing movement of one of the members relative to the other, and means for indicating and recording the force transmitted between the members by the shock absorber throughout the operation of the shock absorber.

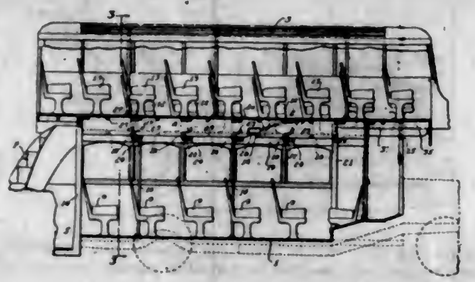
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1,694,006. INSTRUMENT PANEL. JOHN T. FITZSIMMONS, Dayton, Ohio, assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Dec. 11, 1925. Serial No. 74,738. 4 Claims. (Cl. 175—369.)



4. A control panel comprising in combination, a supporting plate apertured to receive a plurality of electrical switches; circuit breakers insulatingly mounted on said supporting plate; a substantially stiff conducting wire secured to each circuit breaker and extending therefrom but spaced from the supporting plate; and connector clips supported on the said conducting wires, each clip being held in proper alignment with a respective aperture in the supporting plate.

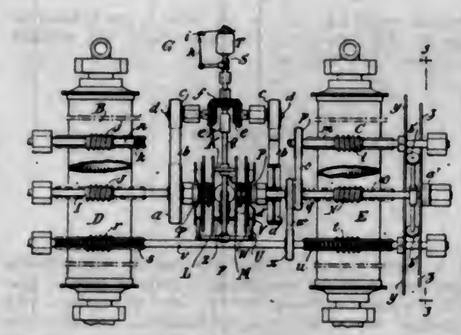
1,694,007. DOUBLE-DECK PASSENGER VEHICLE. MICHAEL J. FORRESTER, Astoria, N. Y., assignor to Fifth Avenue Coach Company, a Corporation of New York. Filed Sept. 11, 1925. Serial No. 55,659. 3 Claims. (Cl. 296—28.)



1. In a bus, the combination of a lower deck, a driver's seat at the front of the same, and an upper deck formed of two sections disposed at different levels and extending longitudinally respectively on opposite sides of a vertical plane, the forward portion of the lower section of said upper deck extending over the driver's seat and being disposed at a higher level than its rear portion to give added headroom to the driver.

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1,694,008. DRIVE AND DRIVEN DEVICE. GEORGE HOLT FRASER, Brooklyn, N. Y. Filed Sept. 12, 1924. Serial No. 737,412. 17 Claims. (Cl. 74—26.)



1. In combination, a driven part revolving about an axis and having a side traction face, a shaft sustaining an axial stress and axially sustained by and revolved by said part, a driving part revolving about an axis angular to said axis and having an edge traction face in tractional engagement with said side face for driving it, and means controlled by said first member for varying the position of said second member radially of said first member.

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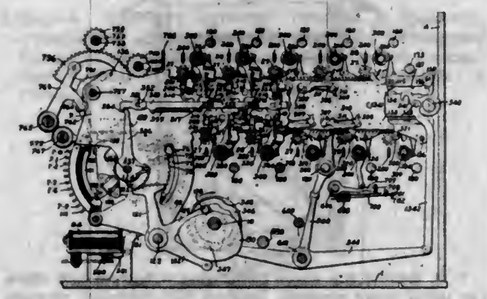
1,694,009. AUDITING MACHINE. MAXIMILIAN M. GOLDBERG, Dayton, Ohio, assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a Corporation of Maryland. Filed Aug. 11, 1919. Serial No. 316,528. 248 Claims. (Cl. 235—58.)

1. In a machine of the class described, the combination of groups of totalizers, means for feeding a control record, means controlled by the record for automatically selecting a plurality of totalizers one from each of any two or more groups, and means for actuating the selected totalizers.

104. In a machine of the class described, the combination of a plurality of totalizers arranged in order, means for selecting the totalizers one by one to be cleared, means for



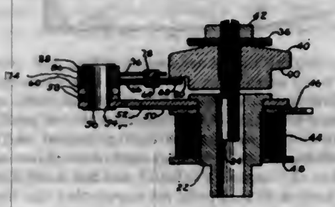
restoring the selected totalizers to zero, punching mechanism controlled by the restoring means for producing in a record sheet perforations corresponding to the data on the



totalizers, and punching mechanism for producing in the record perforations corresponding to the order of the totalizers.

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1,694,010. SIGNALING DEVICE. HOWARD W. HENRY, Bloomfield, N. J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 13, 1924. Serial No. 698,908. 6 Claims. (Cl. 177—7.)



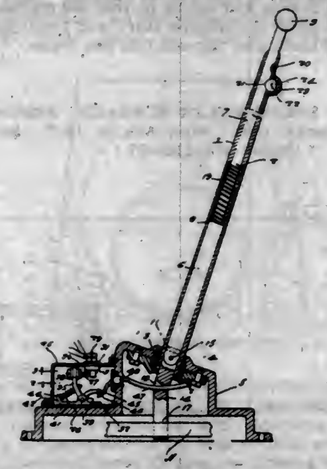
1. In apparatus of the character described, a horn having a diaphragm, an electro-magnet mounted adjacent to the diaphragm, a contact interrupter, an armature having a sloping cam face arranged to strike said interrupter, means for transmitting movement of said armature to the diaphragm, and means for rotatably adjusting the armature to vary the point of contact of said sloping cam face with said interrupter, substantially as described.

6. An apparatus of the character described, a horn having a diaphragm, an electro-magnet mounted adjacent the diaphragm; a circuit interrupter including a movable contact member; a plunger adapted to strike the diaphragm; an armature screw-threadedly engaging on the plunger and having a surface lying in a plane inclined to the movable contact with which said surface engages, the screw threads on the plunger and armature sloping a substantially lesser degree than the inclined surface of the armature.

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1,694,011. GEAR-SHIFTING-LEVER LOCK AND IGNITION-SWITCH-ACTUATING MECHANISM. JOHN LESTER HOSFORD, Boonville, Mo. Filed Mar. 24, 1927. Serial No. 178,045. 7 Claims. (Cl. 70—127.)

1. In combination, a sliding gear shifting lever, a sleeve through which the lever is slidable, the lower end of the lever being adapted for engagement with the shifting mechanism of the vehicle transmission, a normally closed ignition control switch, means operable by the lever when the latter is moved to a non-shifting position for simultaneously opening said switch, additional means for securing the lever in a shifting or non-shifting position, and



means for permanently locking the gear shifting lever in a non-shifting position, when the aforementioned securing means is broken.

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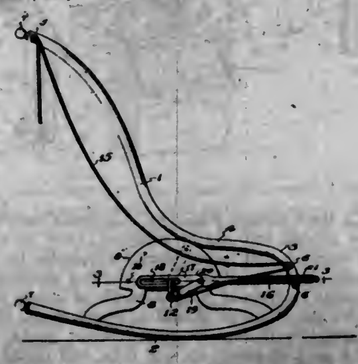
1,694,012. BURNER HEAD FOR OIL-BURNER PLANTS. CHARLES W. JOHNSON, Seattle, Wash. Filed Dec. 15, 1927. Serial No. 240,254. 3 Claims. (Cl. 158—2.)



1. In an oil burning furnace, a hemispherical shield swingingly mounted in the furnace wall, the margin of the shield projecting inward to the inside face of the furnace wall, an oil burner extending through the shield at the center thereof and swinging therewith, whereby the shield with the burner may be swung into a plurality of different angular positions with relation to the inside wall of the furnace.

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1,694,013. CHAIR. CARL S. JOHNSON, Butte, Mont. Filed May 13, 1927. Serial No. 191,172. 1 Claim. (Cl. 155—69.)

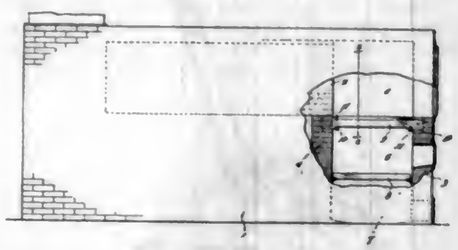


A chair comprising side members including arm rests and feet, braces extending between the respective arm

rests and feet, a cranked shaft mounted in said braces, a seat and back member disposed between the sides, a foot rest frame slidably supported by and between the front portion of the sides and having its rear end portion slotted to engage around the cranked shaft, and links connecting the cranked shaft with the said foot rest frame.

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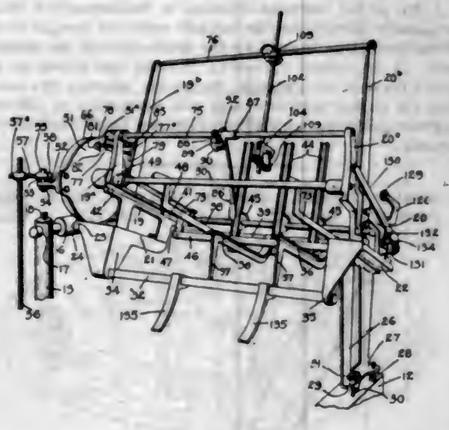
1,694,014. STEAM-BOILER FURNACE. RUDOLPH KIMMICK, Ramah, Colo. Filed Aug. 3, 1927. Serial No. 210,346. 1 Claim. (Cl. 110—97.)



The combination with a boiler furnace including a combustion chamber and fire box disposed forwardly of the boiler, of a heat absorber and equalizer arranged intermediate the fire box and combustion chamber below the boiler consisting of a plurality of spaced metal bars extending between the front and rear walls of the furnace and having their top sides oppositely beveled, and metal plates set in the front and rear walls of the furnace and receiving the ends of the bars which are fastened thereto.

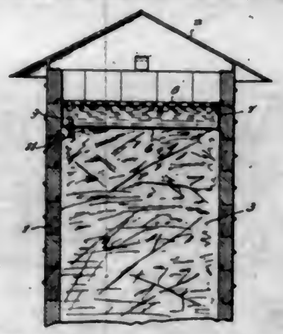
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1,694,015. STOCK-FEEDING MAGAZINE FOR PRINTING PRESSES. ABEL KLUGE and ENEVAL KLUGE, St. Paul, Minn., assignors to Brandtjen and Kluge, Inc., St. Paul, Minn., a Corporation of Minnesota. Filed Dec. 17, 1925. Serial No. 75,961. 34 Claims. (Cl. 271—62.)



1. In a stock feeding magazine, side frame members, tie-members joining said frame members, rails mounted on said tie members and independently adjustable thereon between said frame members, said rails being adapted to support various irregularly shaped packs of sheets on edge, side guides also mounted on said tie members and independently adjustable thereon to suit different packs, a back-rest for a pack of sheets on said rails, and means for advancing said back-rest.

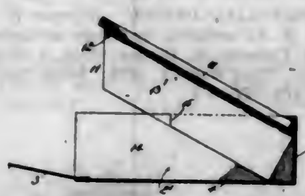
1,694,016. SILO SEALER. ALOIS J. KREBSBACH, St. Cloud, Minn. Filed Dec. 15, 1927. Serial No. 240,300. 5 Claims. (Cl. 20—14.)



1. A flexible silo cover comprising a bottom and sides, the latter being rendered buoyant for automatic erection by the rise of the level of the water as it is supplied to the cover.

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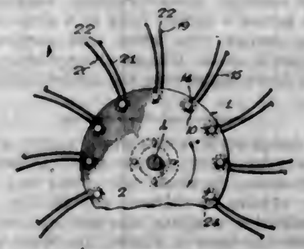
1,694,017. COMBINED SHIPPING AND DISPLAY BOX. GEORGE C. MILLER, Brookline, Mass. Filed June 19, 1924. Serial No. 721,127. 2 Claims. (Cl. 206—44.)



1. In a box of the character specified, the combination with the body of the box and cover, of a contained bridge member substantially inverted U-shaped in form, said member having a top plate occupying an elevated position within the box body spanning the cavity thereof and provided with dependent oppositely-arranged side plates extending down inside the opposite sides of the box body and resting upon the bottom of said body for supporting the top plate of the bridge member in its elevated position as aforesaid, said bridge member being movable with relation to the box body to occupy a changed position therein with the top plate thereof occupying an inclined position relatively to the box body and the side plates thereof then resting on the bottom of the box body only at their forward ends and inclining upwardly by said sides of the box body, and means whereby the bridge member may be supported in its changed position as aforesaid.

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1,694,018. ROTATABLE BRUSH. RAYMOND C. MUDGE, East Boston, and ERNEST A. GALLISON, Watertown, Mass., assignors to Bay State Fishing Company, Boston, Mass., a Corporation of Maine. Filed Feb. 19, 1927. Serial No. 169,007. 18 Claims. (Cl. 17—5.)



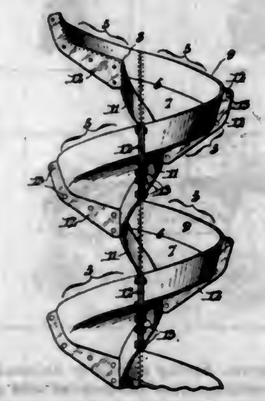
8. A brush of the class described comprising a rotatable frame, eccentrically mounted bars substantially parallel to



the axis of rotation of said frame, spills pivotally mounted on said bars, said spills comprising resilient metal elements, independent bushings pivotally mounted on the bars, the spills being secured to the bushings, said bushing being of a width to provide spacers for the spills.

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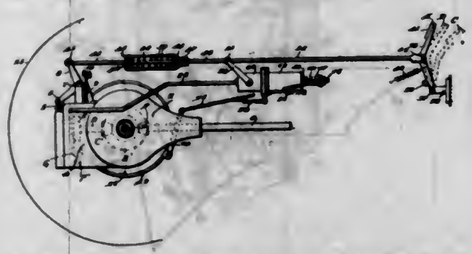
1,694,019. GRAVITY CHUTE. CHARLES G. PFEIFFER, Philadelphia, Pa., assignor to Specialty Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1927. Serial No. 228,290. 4 Claims. (Cl. 198—12.)



1. A spiral gravity chute embodying interchangeable angularly-troughed volute sections adapted to be secured together end for end, said sections having integrally-formed depth flanges jointly constituting a spiralised stiffening whereby the structure is rendered self-sustaining under load.

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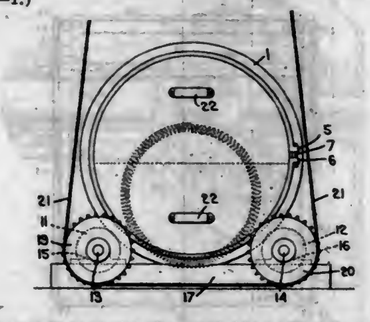
1,694,020. HYDRAULIC AND BAND BRAKE-OPERATING MEANS. WILLIAM GUNN PRICE, Yakima, Wash., assignor to McCleary Hydraulic Brake Company, a Corporation of Washington. Filed Dec. 18, 1926. Serial No. 155,725. 3 Claims. (Cl. 188—2.)



2. In combination, a motor vehicle having a hydraulic brake and a band brake, a piston for operating said band brake, a cylinder for said piston, a valve casing for said cylinder having a pressure connection with said hydraulic brake, a rotary valve in said casing adapted to occupy egress, neutral and band brake positions, said casing having an egress port leading from said pressure connection to said valve, and an ingress port leading from said pressure connection to said valve, a non-return device interposed in said ingress port, said casing having a cylinder port leading from said valve to said cylinder, and said valve having a peripheral connecting port for connecting said egress and cylinder ports when said valve is in an egress position, and registering said connection port exclusively with said cylinder port when said valve is in a neutral position, and connecting said cylinder port with said ingress port when said valve is in a band brake position, and mechanism connected with said hydraulic brake and valve for causing operation of said hydraulic and band brakes.



1,694,021. METHOD OF CLEANING FLEXIBLE FORAMINOUS SHEETS. FORREST G. PURINTON, Waterbury, Conn., assignor to The Patent Button Company, Waterbury, Conn., a Corporation of Connecticut. Filed Nov. 21, 1927. Serial No. 234,870. 4 Claims. (Cl. 141—1.)



4. The method of cleaning a soluble coating from a wire screen which comprises rolling the screen longitudinally into the form of a scroll, partially immersing the scroll in a bath of liquid solvent for said coating, continuously rotating the scroll about its axis and causing the solvent to cascade upon the scroll.

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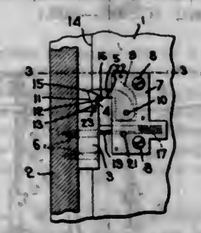
1,694,022. TRACER POINT. JOHN C. SHAW and ROBERT D. SHAW, Brooklyn, N. Y., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 12, 1927. Serial No. 183,150. 4 Claims. (Cl. 90—62.)



1. A tracer provided with a wobbling spindle, a tracer point adapted to be detachably secured to the end of said spindle, provided with a knife edge, and means mounted on the spindle for supporting said tracer point for rotation on an axis coincident with said knife edge and with the axis of said spindle.

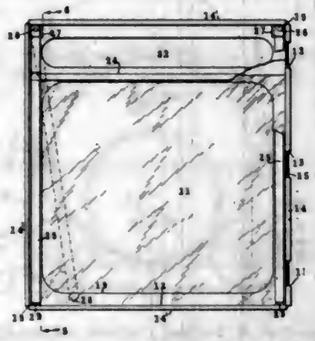
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1,694,023. FASTENER FOR DOORS, PANELS, AND THE LIKE. HENRY SUCK, Roslindale, Mass. Filed May 29, 1928. Serial No. 281,398. 5 Claims. (Cl. 292—99.)



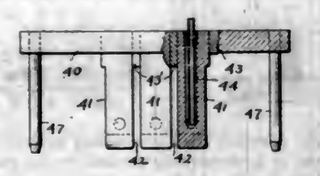
1. In a door fastener, the combination with a door element and a frame element, of a striker on one of said elements, a vertically-swinging latch pivoted to the other element and co-operating with said striker to fasten the door, a spring acting on the door when closed and tending to open it, said door being capable of having a slight additional inward movement beyond its normal closed position, and means rendered operative by the initial spring impelled opening movement of the door after it has been given its additional inward movement to clear the latch from the striker and thus release the fastener.

1,694,024. DISPLAY DEVICE. GEORGE A. TAYLOR, Bergenfield, N. J., assignor to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 22, 1924. Serial No. 757,342. 21 Claims. (Cl. 220—82.)



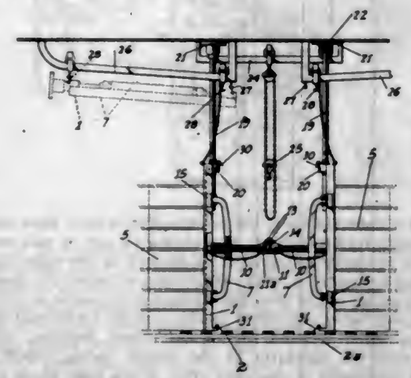
1. In a display member, in combination, a frame, a panel associated therewith, and panel-retaining means extending entirely across said panel, said means being pivotally mounted on the frame for movement in a plane parallel to the plane of said panel, and a device located on said frame beyond said panel for detachable engagement by the outer end of said retaining-means.

1,694,025. MOLD. RALPH J. WEAVER, Akron, Ohio, assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 3, 1926, Serial No. 91,871. Renewed Oct. 10, 1928. 1 Claim. (Cl. 18—35.)



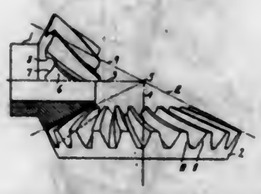
In molds, the combination of a main body having a cavity for the article to be molded, and a plunger plate for closing one side of said cavity, said plate having an opening therein, a plurality of cores positioned in said opening and adapted to cooperate with said cavity, and a wedge for securing said cores in said opening.

1,694,026. FRUIT-CAR BRACE. HERBERT A. WHITTEMORE, Newcastle, Calif. Filed Nov. 29, 1927. Serial No. 236,455. 12 Claims. (Cl. 105—369.)



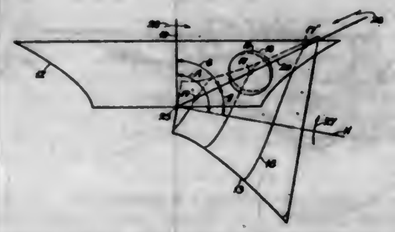
1. A box-brace structure for cars comprising rigid frames to extend transversely of a car in longitudinally spaced relation to each other and adapted to abut against the ends of stacks of boxes, independently actuated jack screws between the frames, and means for mounting the screws in operative relationship with the frames; the outer ends of the screws when in operation abutting against each other.

1,694,027. GEARING. ERNEST WILDHABER, Brooklyn, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed Mar. 25, 1924. Serial No. 701,698. 29 Claims. (Cl. 74—41.)



1. A pair of gears, having angularly disposed axes and having teeth extending across the faces of said gears along lines inclined to the generatrices of the respective pitch surfaces, the tooth profiles of one gear being exclusively convex circular arcs, and the mate tooth profiles of the other gear of said pair being exclusively concave circular arcs of substantially the same radius.

1,694,028. GEAR. ERNEST WILDHABER, Rochester, N. Y., assignor to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 10, 1926. Serial No. 115,048. 23 Claims. (Cl. 74—7.)

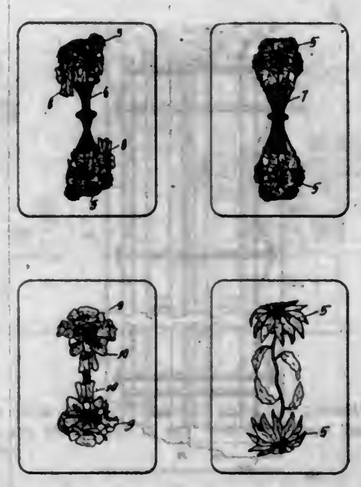


1. A pair of gears adapted to mesh with axes non-intersecting and non-parallel, each of which has teeth extending across its face along lines inclined to the generatrices of its pitch surface, the profiles of the side tooth surfaces of said gears in planes perpendicular to their respective pitch lines being single circular arcs.

1,694,029. CARD GAME. OTOTARO N. YAMAMOTO, Los Angeles, Calif. Filed Jan. 30, 1928. Serial No. 250,441. 9 Claims. (Cl. 273—152.)

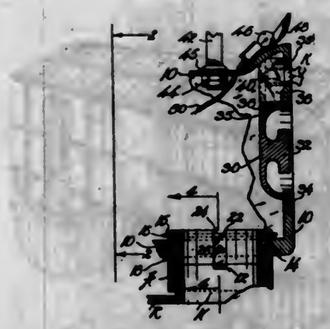
1. A card game comprising cards provided with suit emblems, the emblems of the cards of different suits being different and of the same suit being of like character, and some of the suits having cards each bearing a second emblem to distinguish said cards from other cards of said suits, and one of the cards of each of the last mentioned





suits also bearing a third emblem, the second emblems being of like character and the third emblems being of like character.

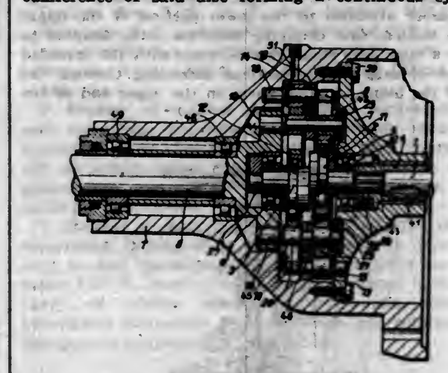
1,694,030. RADIATOR CAP FOR AUTOMOBILES. LOUIS A. BEAN, Denver, Colo. Filed Aug. 9, 1921. Serial No. 490,918. 10 Claims. (Cl. 220—24.)



9. A device of the class described embodying therein a radiator filler spout, an adapter having an opening therethrough and being telescopically interfitted with said spout, radially adjustable means accessible through the opening for securing the adapter to the spout, a cap secured to the adapter and closing the opening therein, and a theft-proof lock associated with said cap and preventing access to said adjustable means.

1,694,031. GEAR TRANSMISSION. LORENZ KONRAD BRAREN, Munich, Germany, assignor to Firm: Friedrich Deckel Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Filed Nov. 30, 1926, Serial No. 151,800, and in Germany Dec. 5, 1925. 12 Claims. (Cl. 74—34.)

1. In a gear transmission a fast rotating member, a slowly rotating member, an eccentric on said fast rotating member, a disc mounted to turn on said eccentric, the circumference of said disc forming a continuous cycloidal

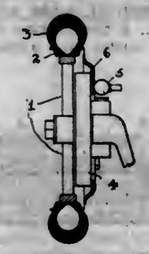


curve, members to engage with said cycloidal curve, and means for connecting said disk and said slowly rotating member.

1,694,032. MANUFACTURE OF WOOL FELTS. EMIL BERCHT and RUDOLF FUGMANN, Guben, Germany. Filed May 25, 1926, Serial No. 111,645, and in Germany June 9, 1925. 7 Claims. (Cl. 19—146.)

1. In a process for the manufacture of felts, introducing substantially straight fibres of combed wool into a blowing machine, and there subjecting said fibres to the action of a current of air for depositing them uniformly upon a receiver in the form of a felt.

1,694,033. SHIELD FOR VEHICLE BRAKES. GEORGE R. CUNNINGTON, Akron, Ohio, assignor to The Paine-Cunnington Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 10, 1925. Serial No. 74,637. 11 Claims. (Cl. 301—37.)



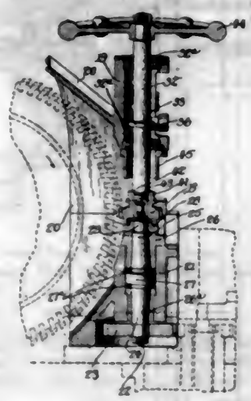
3. As an article of manufacture, a shield for use with vehicle-wheels, said shield being of rubber and of a generally circular form with a substantially planar attaching portion and an extending guard portion.

8. In a device of the character described, the combination of vehicle-wheel brake means and a shield member of rubber of generally annular shape adjacent said brake means.

1,694,034. WORKHOLDER. JOHN EDGAR, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed July 26, 1924. Serial No. 728,354. 9 Claims. (Cl. 90—1.)

1. In a spur-gear cutting machine, the combination of a work spindle comprising two axially-alined sections, bearings in which the lower spindle section is rotatably mounted and held against longitudinal movement, bearings in which the upper spindle section is rotatably and slidably mounted, a hand lever connected to the upper spindle section for sliding the latter, one of the spindle sections having a threaded end and the other section having a thread-

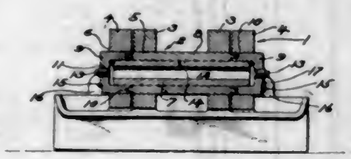
ed socket therefor, a clamping member non-rotatably fixed to the upper portion of the lower spindle section, a clamping member attached to the lower portion of the upper spindle section, said clamping members being adapted to confine a spur gear blank therebetween with the threaded portions of said spindle sections extending through the bore of the blank, a hand wheel on the upper end of the



upper spindle section for rotating said spindle section to screw the two spindle sections together and clamp the blank between said clamping members, a stripper located adjacent to the upper spindle section in position to engage the gear blank when the upper spindle section is raised by means of said lever, and means attached to the lower end of the lower spindle section for rotating the work spindle and the blank.

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1,694,035. TRACK-LINK CONNECTION. FRED GROTTS, Peoria, Ill., assignor, by mesne assignments, to Caterpillar Tractor Co., a Corporation of California. Filed Feb. 18, 1925. Serial No. 9,955. 3 Claims. (Cl. 74—32.)

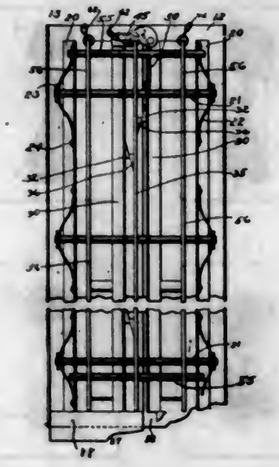


1. In combination, a pair of cooperating track links having respectively inner and outer pairs of ears for joining the links together, the inner pair of ears of one link being adapted to fit within the outer pair of ears of the other link and having registering bolt receiving openings therethrough, a cylindrical pin member within the registering openings, a space block floatingly mounted on the pin member and having its ends engaging within the openings in the inner pair of ears, and means on the ends of the pin member fitting within the holes on the outer ears and in abutting end relation with the space block.

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1,694,036. ADJUSTABLE AND INTERCHANGEABLE FORM FOR HOLLOW WALL CONSTRUCTION. IRA J. KUEBT, Los Angeles, Calif. Filed Feb. 9, 1925. Serial No. 7,855. 7 Claims. (Cl. 25—128.)

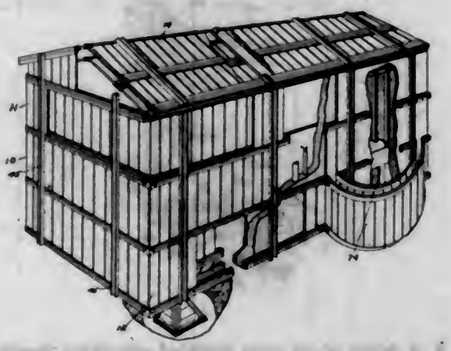
1. In a building form, a plurality of rigid wall members, each consisting of a strip of metal, each of said strips being bent to form two portions arranged at right angles to each other, means disposed within said wall members to hold said members in position, means to alter the cross



sectional area of the form in two dimensions, means to lock said form in one position and resilient means to urge certain of said walls in one direction.

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1,694,037. CONCRETE FORM, METHOD OF MOLDING A CONCRETE WALL, AND WALL. IRA J. KUEBT, Los Angeles, Calif. Filed Aug. 26, 1924. Serial No. 734,178. 12 Claims. (Cl. 25—131.)



1. The method of making concrete walls, comprising pouring a section of the wall, with an upper cavity, arranging a closure to close the cavity, then pouring the next section of the wall and allowing the concrete to engage the upper closure.

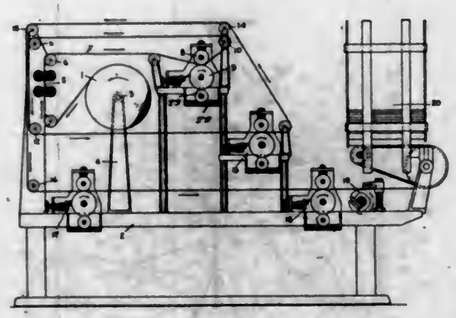
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1,694,038. PRINTING MACHINERY. WALTER EVERETT MOLINS and CYRIL BERT, London, England. Filed Jan. 10, 1928, Serial No. 245,741, and in Great Britain Jan. 6, 1927. 4 Claims. (Cl. 101—152.)

1. In a multi-color intaglio printing machine, the combination with a reel from which a web of printing material is drawn, of a series of rollers for guiding the web so arranged as to cause the web to travel in a circuitous path comprising a plurality of substantially complete circuits



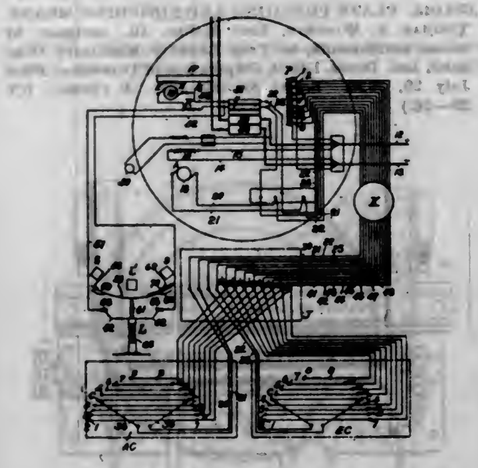
about the reel, a plurality of printing units spaced along the web and disposed in separate circuits of the path thereof, whereby the web is constrained to follow a cir-



cuitous path between adjacent units for permitting the ink of one impression to dry before the next impression is made.

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1,694,039. SAFETY STOP FOR SEARCHLIGHTS. MARTIN L. PATTERSON, Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 24, 1922. Serial No. 556,348. 2 Claims. (Cl. 172—239.)



1. In combination with a movable device, electric means for moving said device, said means including a controller and an electric motor, a circuit for transmitting a relatively large current to said motor and a second circuit for transmitting a relatively small current to said motor, means for limiting the movement of said device, means normally rendering one of said circuits effective, means for rendering ineffective the normally effective circuit and rendering the other of said circuits effective, as the device approaches said limiting means, to vary the speed of the device, and means permitting said first means to reverse the direction of movement of said device in any position thereof without breaking the circuit between said controller and said motor.

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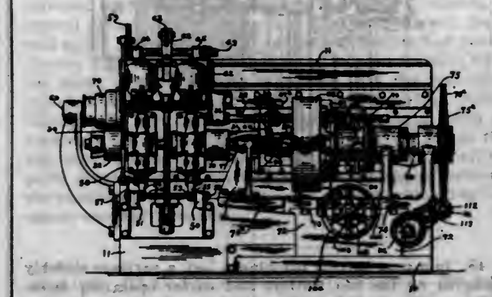
1,694,040. PROCESS OF MAKING ACTIVATED CARBON. ARTHUR BENNING RAY, Bayside, ERNEST GARDNER DOYING, New York, N. Y., and JOHN J. BUTKOVSKY, Elizabeth, N. J., assignors to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Oct. 22, 1925. Serial No. 64,271. 13 Claims. (Cl. 252—8.)

1. Process of making dense strong activated charcoal comprising impregnating nut cellulose with a dehydrating agent, heating the mixture to a temperature not materially below 350° C., leaching out the soluble components, and reheating the resulting carbon in an oxidizing atmosphere.

6. Process of making dense strong activated charcoal comprising impregnating nut cellulose with phosphoric acid, heating the mixture to a temperature not materially below 350° C., passing steam over the heated material to carry off volatile phosphorus compounds, recovering phosphorus compounds from the steam and returning the phosphorus compounds to the process.

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1,694,041. MACHINE FOR CUTTING GEAR TEETH. WILLIAM EDWIN SYKES, Slough, England. Filed May 24, 1923. Serial No. 641,127. 23 Claims. (Cl. 90—9.)



1. In a machine of the character described, work supporting means comprising a work supporting arbor having an enlarged head thereon, a face plate having a hub surrounding the arbor and lodged against said head, means for holding the work against the face plate whereby the latter is clamped between the head and the work, a head stock comprising a rotatably mounted shaft, means for detachably securing the face plate to said shaft to support the face plate and the adjacent end of the arbor, and means for rotatably supporting the other end of the arbor.

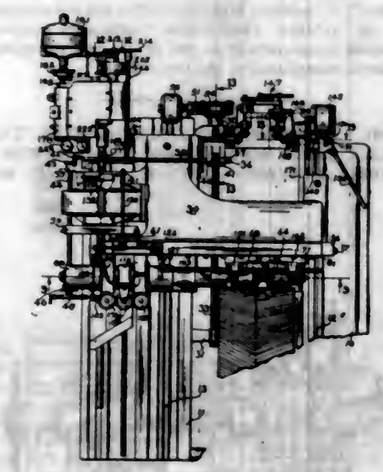
12. A gear cutting machine, comprising a frame having a bed and vertically offset guideways on said bed, a work carriage slidably mounted on said guideways, said carriage being substantially L-shaped in cross section to conform to the position of said guideways, whereby a part of said carriage surface is offset, horizontally aligned bearings mounted on the offset portions of said carriage, a work carrying shaft carried in said bearings and having a head stock mounted above the upper of said guideways, and the other of said bearings being removable to facilitate the removal of the work shaft from the carriage.

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1,694,042. MACHINE FOR CUTTING GEAR TEETH. WILLIAM EDWIN SYKES, Buffalo, N. Y. Filed Dec. 28, 1923. Serial No. 683,188. 54 Claims. (Cl. 90—9.)

1. A gear cutting machine comprising a bed, means for supporting a gear blank upon a fixed axis on said bed,

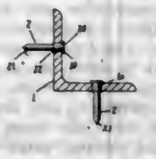
a carriage mounted on said bed for movement towards and away from the blank, a cutter mounted on said carriage and adapted to be moved with said carriage to and from cutting engagement with the blank, operating means for giving said cutter a translatory movement across the face of said blank, means for moving said carriage towards said blank until the depth of the cut produced by the action of said cutter on said blank reaches a predetermined limit, said blank being stationary during the movement of said carriage, and means for rotating said blank thereafter to cut a series of teeth on the periphery thereof while maintaining a fixed relationship between the blank axis and the carriage.



48. In a gear cutting machine, a bed, a carriage slidably mounted on the bed, cutters and cutter operating mechanism mounted on the carriage, electrical devices mounted on the bed for operating said cutter operating mechanism, controlling mechanism on said devices, controlling switches on the carriage, and means for conducting current from said switches to said controlling mechanism including a plurality of bare wires secured to the bed, contacts secured to the carriage and adapted to slide on said wires and conductors leading from said contacts to said switches.

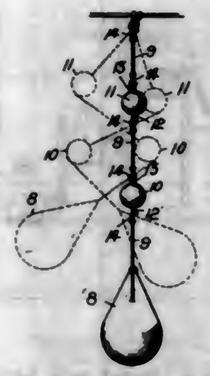
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1,694,043. METALLIC-FRAME CONSTRUCTION. CHARLES M. THOMSON, Westmount, Quebec, Canada. Filed Nov. 16, 1927. Serial No. 233,681. 1 Claim. (Cl. 72—115.)



In metallic framework construction the combination of a studding of rolled stock, a series of holes bored therethrough, with a series of pointed bendable spikes secured in the holes, adapted to penetrate sheathing and the like and to retain the same by having the spike ends clinched thereon.

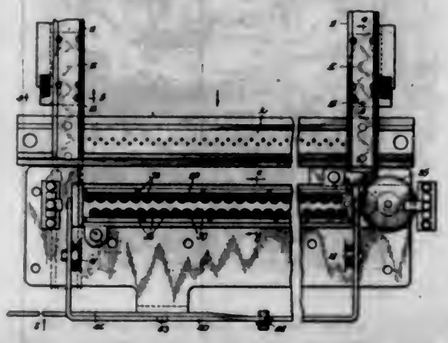
1,694,044. FIGHTING BAG. GEORGE B. THOMPSON, Richmond Hill, N. Y. Filed Feb. 9, 1927. Serial No. 166,871. 6 Claims. (Cl. 272—78.)



1. An exercising apparatus comprising a member adapted to be struck, means for suspending the member from an overhead support to permit free swinging movement of said member when it is struck, and weighted means carried by the suspending means and having a greater inertia than the member thereby to quicken the movement of said member under the influence of a blow.

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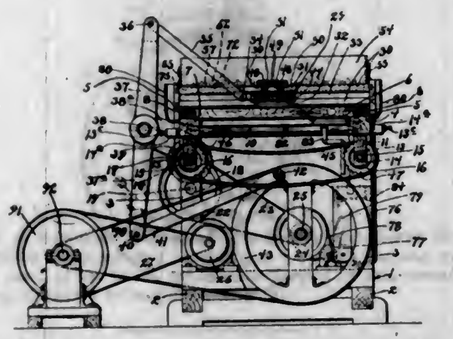
1,694,045. PLATE PUNCHING AND FINISHING MEANS. THOMAS A. WAGGETT, East Moline, Ill., assignor, by mesne assignments, to Troy Laundry Machinery Company, Inc., Dover, Del., a Corporation of Delaware. Filed July 29, 1926. Serial No. 125,707. 1 Claim. (Cl. 29—26.)



In punching and reaming mechanism, in combination, plate holding means, means for advancing said holding means with a step-by-step motion, punching means, a reamer block carrying a plurality of reamers, means for rotating said reamers, means for pivotally mounting said reamer block, means operating in synchronism with said punching means for moving said reamer block to bring said reamers into operative relationship with holes previously punched by said punching means, and means for moving said reamer block into operative position independently of said punching means.



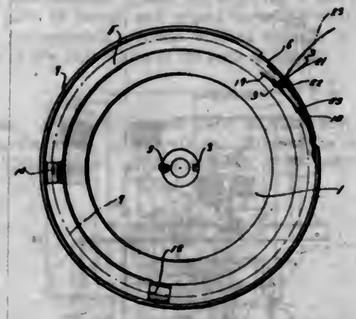
1,694,046. PANEL POLISHING AND RUBBING MACHINE. KARL ALBERT WEBER, Los Angeles, Calif., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 5, 1925. Serial No. 13,210. 5 Claims. (Cl. 51—66.)



1. In an apparatus of the class described, the combination of a support, means for continuously moving a panel on said support in a horizontal direction, a plurality of rubbing elements in contact with the horizontal surface of the panel, means for reciprocating said rubbing elements transversely to the line of travel of said panel and means actuated by the reciprocating action of the rubbing elements for feeding a polishing material onto the panel in advance of said rubbing elements.

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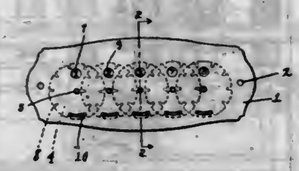
1,694,047. SHADE HOLDER. FREDERICK WENING, Cleveland, Ohio. Filed June 25, 1927. Serial No. 201,840. 2 Claims. (Cl. 240—128.)



1. A globe or shade holder, comprising a housing hanger member having a cylindrical skirt portion at its lower end, a pair of circumferentially spaced resilient fingers secured to the inner surface of said skirt portion for supporting engagement with a globe or shade neck, an elongated globe engaging member of resilient form arranged in opposed relation to said globe engaging fingers, said elongated member extending circumferentially of said skirt portion and having one of its end portions secured to the inner surface thereof and its other end portion free for radial movement into and out of globe engaging position, and a lever for actuating the free end portion of said elongated resilient member, said lever being fulcrumed in an opening in said skirt portion and having an arm inside the hanger member for slidable engagement with the free end portion of said elongated member, said lever also having an arm outside of said hanger member for manual operation, said inner and outer lever arms extending at substantially right angles to each other with the outer arm curved to conform to the curvature of the skirt portion of the hanger member, whereby when the inner arm is holding the free end portion of the elongated resilient member inwardly in globe engaging position, the outer lever arm hugs or lies closely alongside the outer surface of the hanger member skirt portion in an inconspicuous manner.

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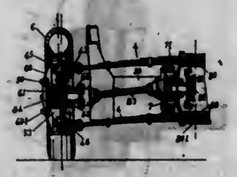
1,694,048. INDICATOR DEVICE. FRED H. WHITE, Toledo, Ohio. Filed Feb. 23, 1928. Serial No. 256,284. 1 Claim. (Cl. 40—70.)



In an indicator, a panel having a series of sight-openings, a series of closely arranged discs of flexible resilient material on said panel disposed in overlapping relation, a central raised portion on each disc extending away from said panel, means connecting said raised portion and panel, thereby yieldingly to urge said discs into engagement with the panel, said discs being associated with the respective openings and each having spaced numerals thereon visible through the sight-openings, said panel having a series of openings, one for each disc formed to receive a pin or the like, each disc having a series of spaced pin-point receiving parts disposed centrally to aline with the spaces between the numbers and being spaced apart distances equalling the spaces between numerals.

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1,694,049. REAR-AXLE ASSEMBLY. JAMES A. WRIGHT, Montreal, Quebec, Canada. Filed Aug. 3, 1927. Serial No. 210,413. 12 Claims. (Cl. 180—73.)



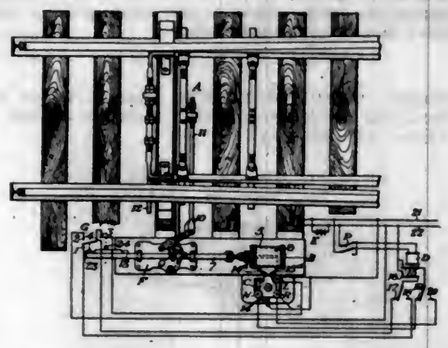
1. In a rear axle assembly, a pair of semi-elliptic springs housed centrally in seats in the top and bottom of the differential casing, the ends of the springs being mounted in spring eyes coupled to the wheel carriers in the load plane of the wheel, the upper spring eye having a spherical casing enclosing the ball head of a pin projecting upwardly from the wheel carrier, the lower spring eye having a T shaped end sleeve journalled in a forked berang projecting downwardly from the wheel carrier.

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1,694,050. APPARATUS FOR THE CONTROL OF RAILWAY SWITCHES. HENRY S. YOUNG, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,804. 9 Claims. (Cl. 246—258.)

7. In combination, a railway switch, an operating mechanism for said switch having normal and reverse positions

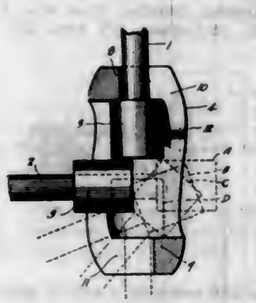
and comprising a lock magnet; a relay having normal and reverse contacts one or the other of which is closed according as the realy is supplied with current of normal or reverse relative polarity, means including a manually operable lever for supplying said relay with current of normal or reverse relative polarity, means for moving said op-



erating mechanism to its normal or its reverse position according as the normal or reverse contacts of said relay are closed and provided said lock magnet is energized, an indication contact controlled by said operating mechanism, and means for controlling said lock magnet jointly by said relay contacts and by said indication contact.

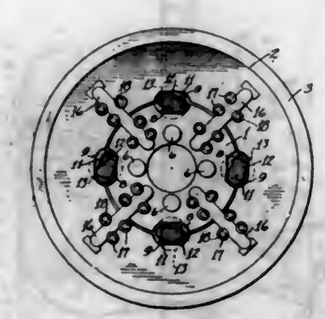
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1,694,051. CABLE-CONNECTING MEANS. DONIS M. BARDON, Seattle, Wash. Filed Feb. 28, 1927. Serial No. 171,695. 1 Claim. (Cl. 24—123.)



In combination, a pair of cables equipped with retaining ferrules at their ends, and a connecting link having a transverse passage in which said enlargements may be contained in end to end, interlocked relation, cable receiving slots extending into the end walls of the link from opposite sides thereof through the axial line and shoulders formed on the side walls of the link at opposite sides of the said slots to prevent lateral displacement of the retaining ferrules when seated; said ferrules being of such length that when in end to end relation neither may be removed from the link but either may be removed when its cable is swung laterally into its slots and the ferrule turned transversely to the axis of the link and then lifted clear of the retaining shoulders and withdrawn endwise.

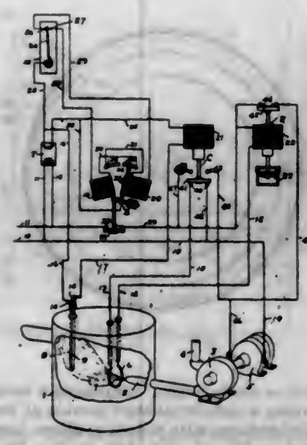
1,694,052. BRAKE DRUM. GEORGE W. BENEDICT, Oakland, Calif., assignor, by mesne assignments, to Marion Exell, Oakland, Calif. Filed Oct. 19, 1926. Serial No. 142,546. 3 Claims. (Cl. 188—218.)



1. A brake drum comprising a master member, an active brake element, adjustable means for positioning one relative to the other and means for securing the one to the other in adjusted position.

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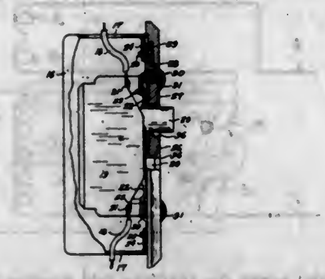
1,694,053. ELECTRIC FUEL IGNITING. WILLIAM K. BOOTH, Chicago, Ill., assignor to Electroil Syndicate, an Association composed of C. P. Jaeger, L. M. Rutledge, William L. Morris, and William K. Booth. Filed Sept. 18, 1922, Serial No. 589,029. Renewed Apr. 30, 1928. 6 Claims. (Cl. 158—28.)



1. In an electrical fuel igniting system, a fuel feeding motor, an electrical igniter, a switch relay in series with the igniter operative to close a starting circuit to the motor, and electrical means for open circuiting the igniter, and the relay and closing a new running circuit to the motor.



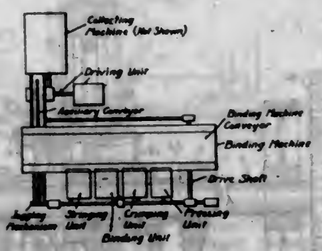
1,694,054. SWITCH OR RECEPTACLE PLATE. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 4, 1922. Serial No. 604,692. 8 Claims. (Cl. 247—23.)



2. A face plate of insulating material, and means for securing the plate to a wall having a portion exposed at the front of the plate, the exposed portion of said means being composed of insulating material.

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1,694,055. SHEET-BINDING MACHINE. LE ROY BURDETT, Chicago, Ill., assignor to Messenger Publishing Company, Inc., Chicago, Ill., a Corporation of Illinois. Filed Jan. 10, 1927. Serial No. 160,269. 34 Claims. (Cl. 11—1.)




3. In combination, means for carrying a sheet unit in a fixed path of travel, and means including metal folding means, for applying a metal binding element to an edge portion of the unit while in its path of travel.

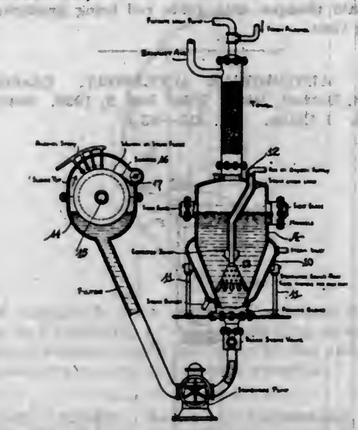
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1,694,056. LOCKING PLUG FOR EXTENSION CORDS. CECIL CALKINS, Albany, Oreg. Filed June 16, 1927. Serial No. 199,334. 3 Claims. (Cl. 173—343.)



1. In a device of the class described, the combination with a plug composed of two separable members, one of said members having projecting extension ends, and the other member having connections within which the aforesaid extension ends are removably inserted, of a disk carried by the last mentioned member, said disk adapted for rotation, and means for limiting the extent of said rotation; each of said extension ends being provided with a groove spaced from the end thereof, said disk when rotated in one direction having portions entering the aforesaid grooves, and when rotated in the opposite direction having portions avoiding said grooves substantially as described.

1,694,057. PROCESS OF MAKING TRIPHENYLMETHANE DYES. ROBERT MCFARLAN COLE, Sandusky, Ohio. Filed Nov. 24, 1926. Serial No. 150,556. 20 Claims. (Cl. 260—65.)



1. The process of making triphenylmethane dyes which comprises oxidizing an aromatic amine with air in the presence of formaldehyde, a condensing agent and a catalyst.

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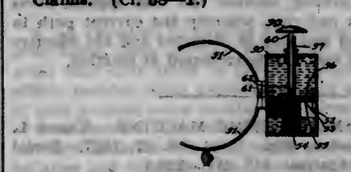
1,694,058. MECHANICAL HAND. CHESTER C. COON, Oakland, Calif. Filed Apr. 4, 1927. Serial No. 180,818. 10 Claims. (Cl. 140—118.)



1. A mechanical hand of the character described, comprising two spaced fingers forming a slot between the same, one of the fingers being curved into a hook allowing a wire to be drawn into the slot thereby when the hand is pulled downward.

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1,694,059. HOUR GLASS. LEVI P. DENNY, Berkeley, Calif. Filed Aug. 19, 1926. Serial No. 130,173. 3 Claims. (Cl. 58—1.)

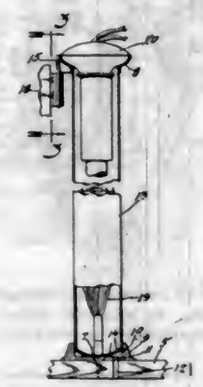


1. A device of the type described, comprising a casing, means for removably securing said casing to a telephone,

a spring pressed plunger slidably disposed in said casing, a medium carried by said casing, means carried by said plunger for permitting a more rapid movement of said plunger in one direction than in the other, and a guide rod for said plunger, said guide rod being graduated for indicating time.

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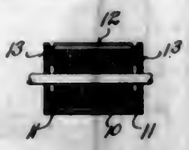
1,694,060. AUTOMOBILE ACCESSORY. CHARLES R. DUNCAN, Detroit, Mich. Filed Dec. 9, 1926. Serial No. 153,598. 1 Claim. (Cl. 211—63.)



In combination with an umbrella provided with a permanent staff and handle, a supporting case for said umbrella comprising a tubular member adapted to be supported in a generally vertical position, said member being provided with an open outwardly flared upper end, and the upper end of said handle being formed complementary to said flared end whereby to close the same and support said umbrella therefrom when said umbrella is positioned within said member.

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1,694,061. SELF-STARTING INDUCTION MOTOR. KLAUS L. HANSEN and WILLIAM J. OESTERLEIN, Milwaukee, Wis. Filed Aug. 13, 1926. Serial No. 128,948. 2 Claims. (Cl. 172—280.)

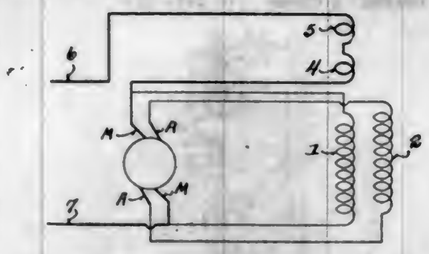


1. An induction motor comprising a stator and a rotor, said rotor having a squirrel cage with the conductors joined by end rings, one of the end rings having a large radial depth, said rotor having magnetic material positioned on opposite sides of said last mentioned end ring and having opposed faces lying in planes at right angles to the rotor axis and spaced apart throughout their extent, said magnetic material being relatively stationary and extending at least to the outer edge of the last mentioned ring, the magnetic flux due to current in the last mentioned end ring passing between the said opposed faces and through such end ring, whereby the current path in the last mentioned end ring is distorted and the effective resistance of such end ring is increased at starting.

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1,694,062. DYNAMO-ELECTRIC MACHINE. KLAUS L. HANSEN, Milwaukee, Wis. Filed Oct. 27, 1927. Serial No. 229,080. 6 Claims. (Cl. 171—223.)

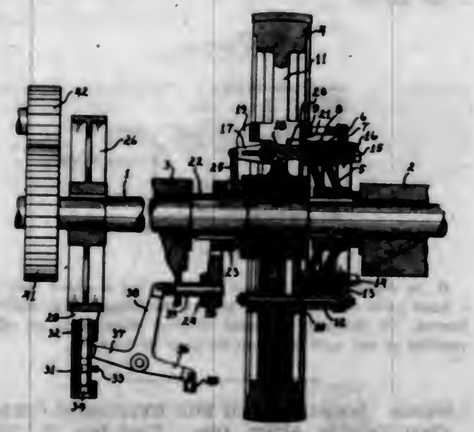
1. A dynamo-electric machine having an armature, a plurality of main brushes, a pair of auxiliary brushes, a main field winding supplied from said main brushes, an auxiliary field winding supplied from said auxiliary brushes, said machine impressing a substantially constant



potential across the auxiliary field winding for any given setting and means for simultaneously shifting both said main and auxiliary brushes.

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1,694,063. SHAFT-CONTROL MEANS FOR DRAWING AND STAMPING PRESSES. HENRY J. HINDE, Toledo, Ohio, assignor to The Toledo Machine & Tool Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 19, 1927. Serial No. 227,125. 1 Claim. (Cl. 192—17.)



In a stamping and drawing press, a rotatable shaft, a relatively heavy member rotatable on said shaft, a clutch spider mounted on said shaft for turning movements therewith, a clutch disc rotatable with said member and movable axially relative thereto to engage and release the spider, control means on the opposite side of said member extending through said member and engaging said clutch disc, means movable along said shaft for operating said control means, a brake drum rotatable with said shaft and spaced longitudinally thereon from said clutch parts, a braking member engageable with said drum, and common means to operate said clutch operating means and braking member.

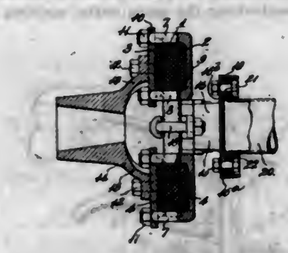
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1,694,064. FLEXIBLE COUPLING. STEPHEN JENCICK, Chagrin Falls, Ohio. Filed Dec. 3, 1923. Serial No. 678,288. Renewed Oct. 11, 1928. 8 Claims. (Cl. 64—96.)

1. A flexible coupling comprising a flexible disk having a central opening, and means for connecting said disk between adjacent ends of shaft sections so as to constitute a driving connection, said connecting means comprising a



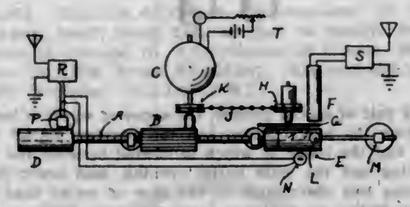
plurality of substantially U-shaped clamping bolts having one arm extending through said central opening and the other arm engaging the edge of the disk, with the middle



portion thereof engaging one side of the disk, and other clamping members connecting the ends of said U-bolts and engaging the other side of the disk.

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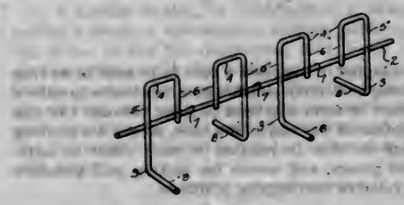
1,694,065. DUPLEX RADIO MACHINE. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Nov. 19, 1924. Serial No. 750,801. 7 Claims. (Cl. 178—5.)



1. The method of electrically transmitting and receiving visual representations over a single channel, which comprises varying the electrical carrier current with two frequencies, one frequency to produce the visual representation and the other frequency to indicate the relative timing between the sending and the receiving instruments, one of the said frequencies being constant and the other a varying frequency which modulates the constant frequency.

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1,694,066. BAR SUPPORT AND SPACER. HENRY H. LAMPERT, Chicago, Ill. Filed Apr. 6, 1928. Serial No. 267,902. 4 Claims. (Cl. 72—122.)



1. A device of the class described comprising a rod adapted to support a plurality of reinforcing bars, and a plurality of leg elements secured to said rod, each of said leg elements comprising an arched spacing portion and a foot portion, the arched portions of said elements being disposed in substantially the same plane and being spaced apart from one another to define seats for the reinforcing bars.

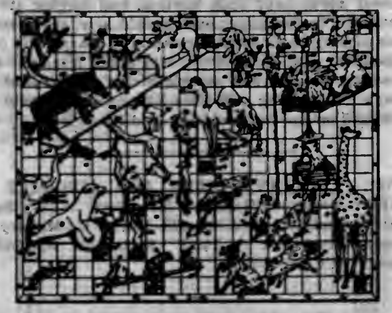
1,694,067. THERAPEUTIC LAMP. WILLIAM TURNOR LEWIS, Racine, Wis., assignor to Western Coil & Electrical Co., Racine, Wis. Filed Oct. 27, 1927. Serial No. 229,082. 9 Claims. (Cl. 174—177.)



1. A therapeutic lamp comprising a source of radiant energy, and a plurality of annular reflecting members having spaced adjacent edges, said lamp having annular open spaces between successive reflecting members.

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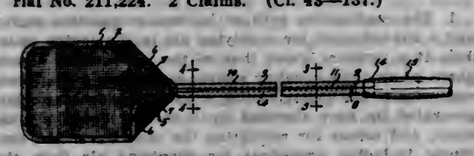
1,694,068. GAME. HARRY A. LIEBERMANN, Chicago, Heights, Ill. Filed May 23, 1925, Serial No. 32,383. Renewed Oct. 15, 1928. 2 Claims. (Cl. 273—134.)



1. In a child's educational game played by moving the player's piece over a board to a goal, a board provided with a progression of spaces from a starting point to a goal, pictures of many different objects scattered over and affixed to said board, each occupying some part or all of a plurality of spaces, and directions for play, each direction naming one of the objects and placed on one of the spaces occupied by said object and calling for a movement from said direction space to some part of the object on another space, thereby impressing on the child as it plays the game the appearance and name of the object.

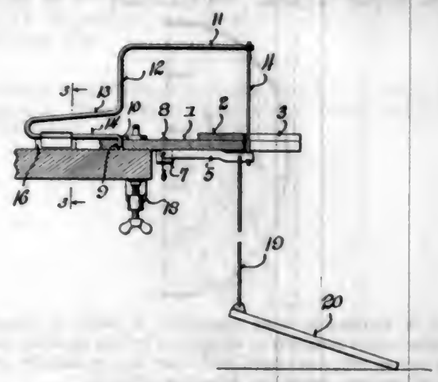
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1,694,069. EXTENSION FOR FLY SWATTERS. FRED LOMBARD, Santa Rosa, Calif. Filed Aug. 6, 1927. Serial No. 211,224. 2 Claims. (Cl. 43—137.)



1. An extension fly-swatter comprising in combination a wire screen mesh portion, a resilient member formed of wire, bent upon itself to provide parallel arms, said resilient member being attached to said mesh portion, one of said parallel arms terminating abruptly and the other of said parallel arms extending laterally to abut against said first mentioned arm, a casing surrounding said parallel arms and being slidable thereon, and means extending inwardly from said casing adapted to engage said arm which extends laterally, to prevent removal of the same.

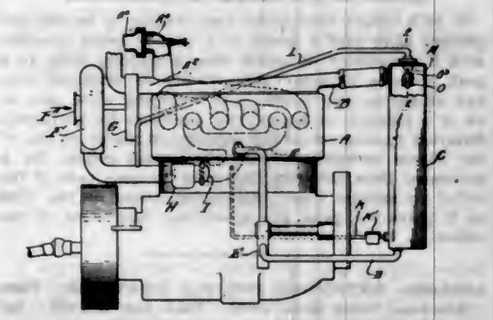
1,694,070. TOY JIG SAW. HANS C. MADSEN, Milwaukee, Wis. Filed Nov. 10, 1927. Serial No. 232,348. 2 Claims. (Cl. 143—73.)



2. A toy jig saw comprising a body portion having a work table provided with a slot, a saw extending through said slot, a lower lever positioned below said body portion and being relatively short, a resilient lever-like member positioned above said body portion and having its free end attached to the upper end of said saw, said resilient member rocking about a point materially rearwardly of the pivot point of said lower lever, said upper lever-like member having a downturned portion fitting within said body portion, a clip binding said lever-like member to said body portion, and means for operating said lower lever.

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1,694,071. COOLING SYSTEM FOR AIRCRAFT ENGINES. HARRY C. MALLORY, New York, N. Y.; Sue R. Mallory administratrix of said Harry C. Mallory, deceased. Filed Jan. 6, 1922. Serial No. 527,503. 6 Claims. (Cl. 123—174.)

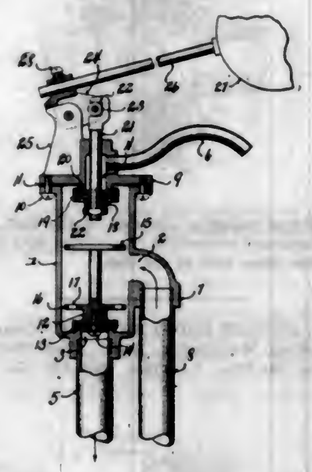


1. The combination with an internal combustion engine and a supercharger for supplying air to the engine cylinders at a pressure above that of the surrounding atmosphere, of an engine cooling system comprising a condenser connected to the engine cooling space for condensing vapor generated by heat absorbed by a cooling liquid in said space, and means for regulating the capacity of the condenser including provisions for supplying air from the supercharger to the cooling system at a pressure above that of the surrounding atmosphere.

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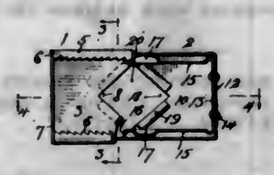
1,694,072. FLUSH VALVE. CYRUS R. MANION, Milwaukee, Wis. Filed June 29, 1927. Serial No. 202,439. 2 Claims. (Cl. 137—104.)

1. A valve for a flush tank comprising a cylindrical casing having an inlet opening intermediate its ends and having a main outlet opening at its lower end and an auxiliary outlet opening at its upper end, a supply pipe communicating with said inlet opening, a discharge pipe communicating with said main outlet opening and a bowl refill pipe communicating with said auxiliary outlet opening, a main valve controlling the main outlet opening and having a pair of spaced pistons, the upper of which is located between the inlet opening and the auxiliary outlet opening, and the lower of which is located between the inlet opening and the main outlet opening, said lower piston offering less obstruction to the flow of water than said upper piston, an auxiliary valve for said auxiliary outlet opening and a float for controlling said auxiliary valve.



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1,694,073. HAIR-WAVING DEVICE. FRANÇOIS RENÉ MARCEL, Brooklyn, N. Y. Filed May 26, 1927. Serial No. 194,298. 12 Claims. (Cl. 132—36.1.)



1. A clip adapted to compress a tube to be used in waving hair comprising relatively slidable and detachable members having notches to form a lateral passage through the clip for the reception of the end of the tube, means for causing said members to slide in relation to each other in adjacent, parallel planes, and means for locking said members in different relative overlapping positions.

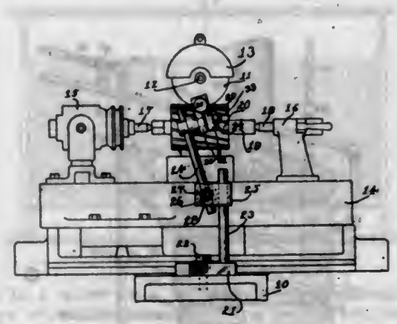
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1,694,074. ATTACHMENT FOR GRINDING MACHINES. JEREMIAH MARTONE, Waterbury, Conn. Filed Nov. 14, 1925. Serial No. 69,068. 1 Claim. (Cl. 51—225.)

In a work-holder for guiding a spiral milling cutter while the latter is being ground by a rotating grinder, a vertical post adapted to be held stationary upon the lower table of the machine, a lower clamping block slidable vertically upon said post and carrying an adjustable inclined arm,



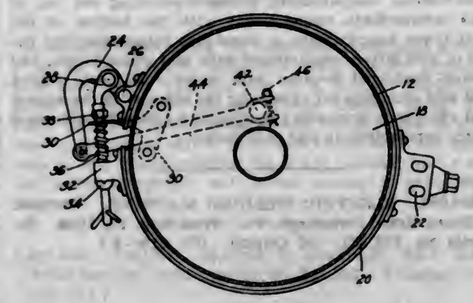
means for holding said inclined arm in adjusted position, an upper clamping block slidably and rotatably mounted on the upper part of said inclined arm, a horizontal work-



guiding finger carried by said upper clamping block, means in front of said upper block for minutely adjusting said work-guiding finger toward and away from the work.

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1,694,075. BRAKE CONTROL. MONTGOMERY W. MCCONKEY, South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed June 18, 1925. Serial No. 36,847. Renewed Apr. 20, 1928. 8 Claims. (Cl. 188—194.)

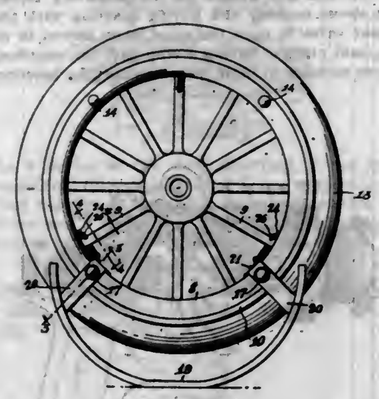


1. A vehicle having, in combination, a swivelled wheel having a drum, a contractable friction device surrounding the drum, means for contracting said device including a part swivelling with the wheel and a non-swivelling part having a point of engagement movable from a position spaced from the swivelling axis to an active position immediately adjacent that axis and so arranged that swivelling the wheel causes variation in the pressure contracting said device.

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1,694,076. JACK FOR SELF-PROPELLING VEHICLES. MELVIN W. MCCOY, Springfield, Ill. Filed July 2, 1926. Serial No. 120,048. 3 Claims. (Cl. 254—94.)

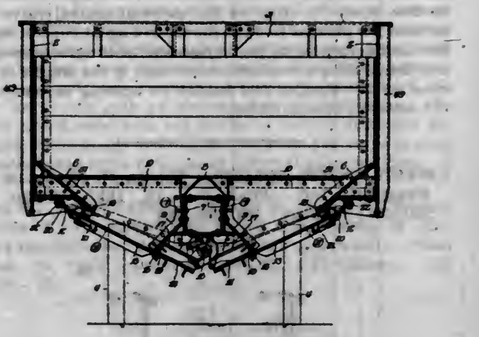
1. In conjunction with a vehicle wheel having a detachable metal tire rim; a jack structure comprising an arcuate trough-shape tread-member; upwardly extending inclined brackets secured in the trough of said tread-member and each having a hole to receive the stud of a special bolt; flat tables at the upper ends of the respective brackets, extending across the felloe and across the metal tire rim of the wheel; special stud bolts occupying existing holes in the metal tire rim and supporting said brackets; levers pivoted on the respective tables adjacent



to spokes of the wheel; and hooks pivoted on the respective levers and adapted to engage said spokes directly to prevent rotation of the wheel in either direction.

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1,694,077. DUMP-CAR CONSTRUCTION. WILLIAM E. MOREY and DAVID HINDAHL, Chicago, Ill., assignors to Rodger Ballast Car Co., Chicago, Ill., a Corporation of Maine. Filed July 11, 1924. Serial No. 725,362. 37 Claims. (Cl. 105—251.)



1. A dump car having a longitudinally extending operating shaft, dump doors controlled by said shaft, a crank member carried by said shaft, said crank member having a cylindrical journal portion, sills, a loop member depending from said sills and carrying said crank member, said crank member having cranks and flanges at its two ends, the crank and flange at each end preventing endwise movement of said crank member relative to said loop when said crank member is in operative position, said crank member having dimensions at each of its ends permitting insertion of said crank member into said loop member from either side of said loop member.

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1,694,078. SPRAY GUN. GODFREY A. MUELLER, Point Place, Ohio, assignor to The Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 7, 1927. Serial No. 181,660. 3 Claims. (Cl. 91—45.)

1. In a spray-gun, a body, two separate control valves one for the motive agent and the other for the material to be sprayed, said valves having opening movements in opposite directions, separate yielding closing means for the two valves acting with greater force on the material

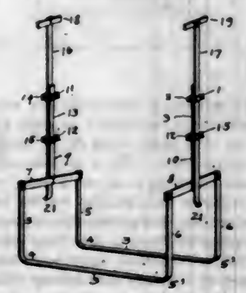
control valve than on the other valve, a sleeve member carried by the body in spaced relation to the motive agent valve for adjustment toward and away from the same, a plunger carried and guided for reciprocatory movements by said sleeve member and having coaction with the motive agent valve to open the same when moved in one direction, said plunger having a stop part for coaction with the sleeve member to limit the valve opening movement of



the plunger, a trigger member pivotally carried by said plunger and having a fulcrum point on the material control valve whereby, upon a movement of the trigger in one direction, it will fulcrum on the material control valve and actuate the plunger to open the motive agent control valve, the limit permitted by the adjustment of the sleeve member and then during a continued movement of the trigger to fulcrum on the plunger and impart an opening movement to the material control valve.

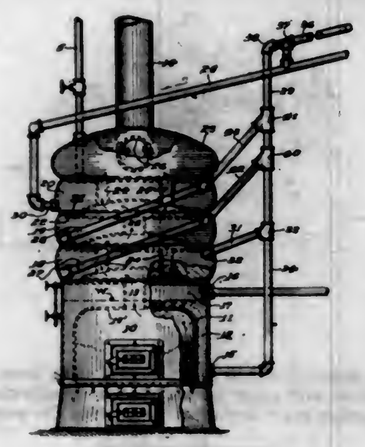
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1,694,079. SACK HOLDER. WILBUR H. NICHOLAS, Indianapolis, Ind. Filed Dec. 15, 1927. Serial No. 240,137. 3 Claims. (Cl. 83—26.)



1. In a sack holder, a pair of upright spaced apart spring-bars each having top cross bars at their upper ends over which cross-bars the folded top of a sack is secured, a base comprising a pair of horizontal spring bars each having both of their ends extended upwardly, horizontal bars connecting the ends of the upward extensions, a vertical standard attached to each horizontal end bar and means for adjustably securing a respective upright spring-bar to a vertical standard.

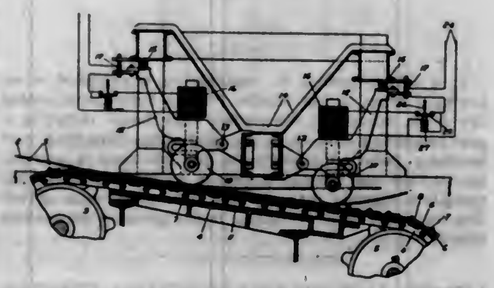
1,694,080. HEATING SYSTEM. MICHAEL R. PLUNKETT, Philadelphia, Pa., assignor of one-half to J. Maurice Kelley, Philadelphia, Pa. Filed Mar. 19, 1927. Serial No. 176,617. 7 Claims. (Cl. 122—421.)



1. In a heating system, in combination, a boiler including a combustion chamber and a water jacket surrounding said chamber, a plurality of superimposed water compartments arranged adjacent said boiler, a return line for the water of condensation connected to the lower part of the upper of said compartments, a line connecting the top of said upper compartment with the bottom of an intermediate compartment, a line connecting the top of said intermediate compartment with the bottom of the next lower compartment, a stand-pipe interconnecting the top of said latter compartment with said water jacket, and means connected between said water condensate return and said standpipe for equalizing the pressure in the system and effectually preventing a siphoning action between said water compartments and said jacket.

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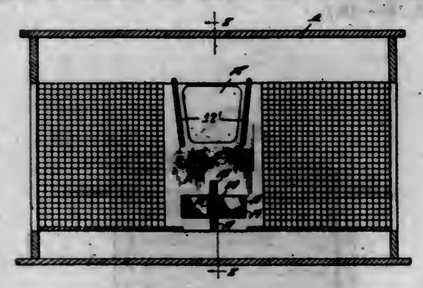
1,694,081. ELECTRIC WELDING MACHINE. WILLIAM EDGAR REED, Pittsburgh, Pa. Filed Aug. 13, 1924. Serial No. 731,831. 26 Claims. (Cl. 219—4.)



1. Electric welding apparatus comprising a rotatable electrode, a rectilinearly movable electrode cooperating therewith, means for permitting movement of one of said electrodes toward and away from the other electrode, a welding circuit, and means actuated by the last named movement of said one electrode for closing said circuit.



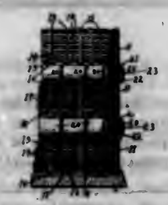
1,694,082. RABBIT HUTCH. WILLIAM SHEEHY, Fontana, Calif. Filed Jan. 3, 1928. Serial No. 244,252. 6 Claims. (Cl. 119—61.)



1. In a rabbit hutch, an invertible double trough, and means within the hutch including a member adapted to be slidably embraced by the trough for supporting the latter in either an active or inactive position.

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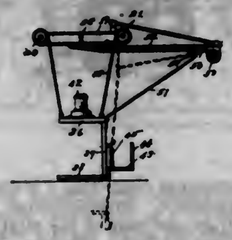
1,694,083. CORNCRIB-WALL CONSTRUCTION. HALVER R. STRAIGHT, Adel, Iowa. Filed Mar. 9, 1925. Serial No. 14,177. 2 Claims. (Cl. 72—6.)



2. A wall construction for corn cribs comprising a base, a series of upright ventilated wall blocks arranged with their edges adjacent and in a common surface, a series of horizontal channel blocks having upper and lower channels, said channel blocks being placed in position on the upper edge of said wall blocks with the upper ends of said blocks entering the lower channel, and a second series of upright wall blocks resting in said upper channel.

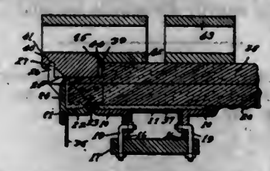
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1,694,084. CRANE. HALVER R. STRAIGHT, Adel, Iowa. Filed May 25, 1926. Serial No. 111,527. 6 Claims. (Cl. 212—21.)



1. In a crane, a movable bridge, a trolley movably mounted on said bridge, electrically operated means for imparting movement to said bridge, electrically operated means for imparting movement to said trolley, a load supporting element depending from said trolley, a platform supported on said load supporting element, control devices carried by said platform, a cable for operatively connecting said control devices with said electrically operated means, and means connected between the ends of said cable for taking up its slack as the load supporting element is elevated and lowered.

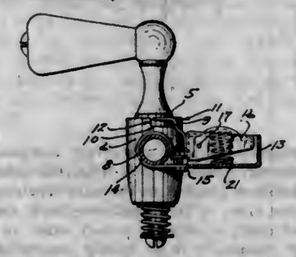
1,694,085. KILN CAR. HALVER R. STRAIGHT, Adel, Iowa. Filed Oct. 7, 1926. Serial No. 140,100. 14 Claims. (Cl. 25—142.)



1. In a device of the class described, a car frame, a floor supported thereon, a retainer frame supported on said floor and capable of horizontal movement relative to said car frame, and a series of floor blocks carried by said floor and within said retainer frame.

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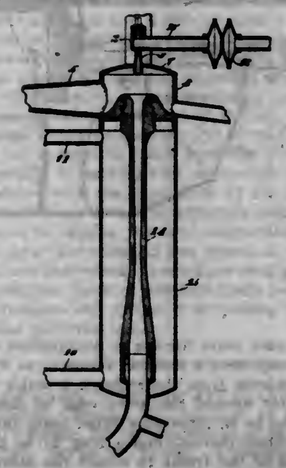
1,694,086. VALVE LOCK. JOSEPH WASELAK, Minneapolis, Minn. Filed Sept. 10, 1927. Serial No. 218,826. 1 Claim. (Cl. 251—166.)



A lock of the kind described comprising a box-like body having an open top and an open end, said body having at its open end attaching means for securing the same to the casing of a valve provided with a stop pin working between a pair of stop shoulders on said casing, said body having a hinged cover affording a lever-acting thumb piece, said cover having a lock lug, and a spring compressed between the cover and body yieldingly holding the cover with the lock lug in the path of movement of the pin to lock the valve closed, said lock lug having a lateral extension arranged to yieldingly rest on the pin when the valve is open to permit said valve to be set in different open positions.

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1,694,087. ASPIRATOR. ERNEST W. WESCOTT, Niagara Falls, N. Y., assignor, by mesne assignments, to Stator Refrigeration, Inc., a Corporation of Delaware. Filed Jan. 25, 1927. Serial No. 163,372. 10 Claims. (Cl. 230—95.)



1. In an aspirator wherein a propellent fluid at a high temperature and pressure is adapted to be materially re-

duced in both pressure and temperature when entering a mixing chamber into which a propelled fluid is drawn, a mixing chamber, a head for said mixing chamber of crowned form and of thin slightly distortable material.

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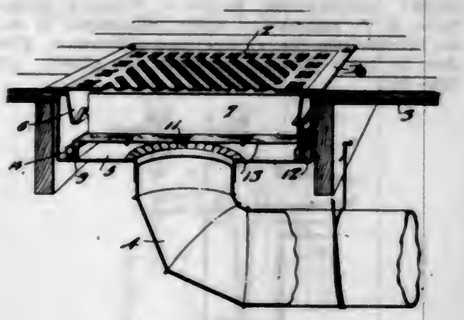
1,694,088. STRAINER. NATALIE WOLKOWICH, Worcester, Mass. Filed Jan. 7, 1928. Serial No. 245,127. 3 Claims. (Cl. 210—149.)



1. The combination with a strainer receptacle member having a perforated bottom, of a drip pan member adjustably and tiltably connected to the said strainer receptacle at or near one side, so that said receptacle and pan may be moved vertically relatively to each other to permit the said strainer receptacle to be widely separated from said pan and then tilted when the drippings in said pan are to be poured out.

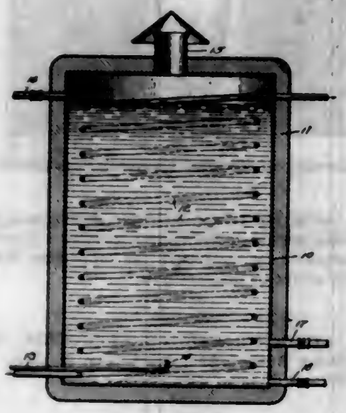
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1,694,089. REGISTER DUST COVER. MAURICE J. WRIGHT, Boise, Idaho. Filed June 22, 1923. Serial No. 647,073. 1 Claim. (Cl. 261—104.)



A register dust cover for use in conjunction with a hot air register comprising a skeleton frame to be fitted in the path of air passing from the register, a water trough extending entirely around the lower edge of said frame, a fabric covering to be removably fitted upon the frame to cover all portions thereof, and a ring to be fitted down over the sides of the frame to secure the fabric in place thereon and to hold the same with its edges in the water trough.

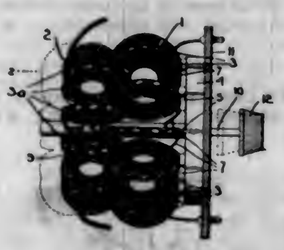
1,694,090. REMOVAL OF PETROLATUM FROM OILS. CHARLES ZWEIG, Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed June 21, 1926. Serial No. 117,394. 5 Claims. (Cl. 196—19.)



1. In the method of removing petrolatum from oil which contains it, by diluting and settling at a low temperature at which the wax separates, the step of agitating the diluted oil at a low temperature before settling.

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1,694,091. SECTIONAL INDUCTION COIL. WILLIAM H. ADAMS, Kenyon, R. I. Filed Oct. 13, 1925. Serial No. 62,234. 3 Claims. (Cl. 171—119.)



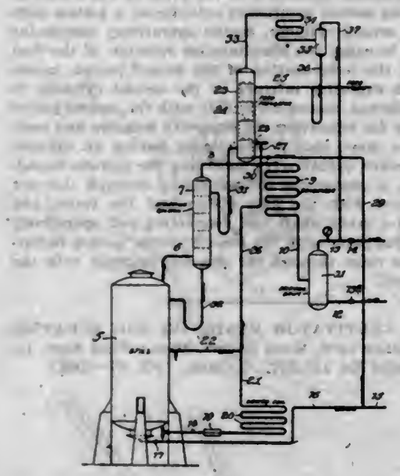
1. A radio inductance comprising a plurality of coaxial, structurally-independent, series-connected coil sections, each having a fractional part of the total inductance desired, said coil sections being arranged radially about a common center whereby a magnetic field of substantially circular shape is formed.

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1,694,092. ART OF CONVERTING HYDROCARBON OILS. OSWALD C. BREWSTER, Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed June 20, 1925. Serial No. 88,513. 11 Claims. (Cl. 196—65.)

3. The method of converting hydrocarbon oils which comprises maintaining a body of oil under pressure at conversion temperature by supplying into said body of oil controlled quantities of oxygen containing gas, removing vapors evolved from the body of oil, preheating fresh oil to

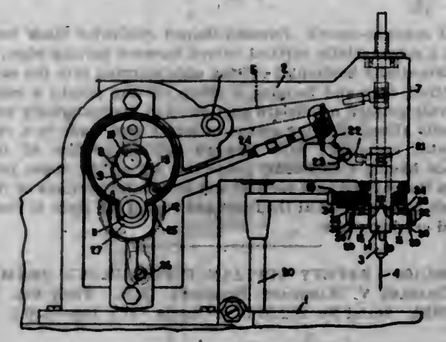




conversion temperatures, contacting the preheated fresh oil with the vapors evolved from said body of oil, and subsequently feeding it into said body of oil.

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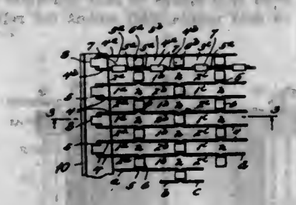
1,694,093. BUTTONHOLE-SEWING MACHINE. AXEL F. CARLSON, Cambridge, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Dec. 18, 1926. Serial No. 155,621. 5 Claims. (Cl. 112—158.)



1. In a sewing machine, the combination with a vertically-reciprocating needle bar, of a vertically-reciprocating sleeve member through which the needle bar reciprocates and by which it is guided, said sleeve member having inclined grooves on two opposite sides, the side walls of each groove converging from the mouth toward the bottom, a guiding member having two guiding portions engaging opposite sides of the sleeve member, projections carried by said guiding portions and fitting the grooves of the sleeve member, the end of each projection being spaced from the bottom of the corresponding groove, springs acting on said projections and yieldingly holding them in operative engagement with the sleeve member, and means to reciprocate both the needle bar and the sleeve member vertically but at different speeds.



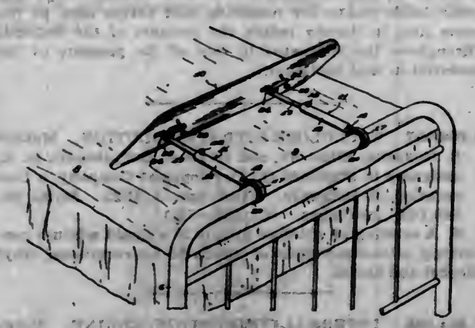
1,694,094. BED-BOTTOM FABRIC. MANSELL ALLAN DAVIS, Waukegan, Ill. Filed Sept. 20, 1927. Serial No. 220,681. 4 Claims. (Cl. 245—5.)



1. A mattress fabric for camping cots, comprising a plurality of wire strands each bent to form a continuous series of similar loops, opening alternately in opposite directions, the sides of the loops being parallel and the ends of the loops being substantially at right angles to the sides, metal clips hingedly connecting the ends of alternate loops in each strand with the ends of alternate loops in an adjacent strand, the terminals of each strand being bent backwardly, closing the end loops of the strand, and a clip hingedly connecting the backwardly bent portion of each end loop to the similar portion of an end loop in an adjacent strand.

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1,694,095. FOOT REST. ELEANOR G. DU MOULIN, New York, N. Y. Filed Nov. 21, 1927. Serial No. 234,774. 3 Claims. (Cl. 5—327.)



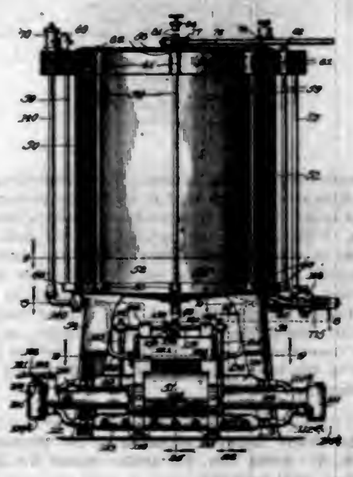
1. A foot rest for a bed having an end member including a horizontally arranged bar, a pair of arms adapted to extend longitudinally over the bottom of the bed, means to pivotally connect the outer ends of the arms with the horizontal bar so that said arms may be swung outwardly from the bottom of the bed to occupy depending positions, upon the outer side of the end member of the bed, laterally extending braces carried by the arms and projecting upwardly when the arms occupy the inner generally horizontal position, a generally horizontal foot supporting member pivotally connected with the inner ends of the arms to turn upon its longitudinal axis, and adjusting elements carried by the braces to engage the foot supporting member to limit its turning movement in one direction, the arrangement being such that when the arms are swung to the outer depending position, the foot rest may freely swing from the adjusting elements and assume a depending position generally parallel with the arms.

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1,694,096. GREASE-CHARGING APPARATUS. HERMAN J. ENGBRECHT, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a Corporation of Indiana. Filed Dec. 2, 1925. Serial No. 72,656. 6 Claims. (Cl. 224—47.1.)

1. In apparatus of the character set forth, the combination of a container for the material, means communicating

with said container for placing the material under relatively high pressure, a conduit through which the material discharges from said means, check valves preventing flow of the material from said means to said container and from said conduit to said means, and means for relieving the



pressure at the discharge end of said conduit comprising controllable means for rendering said valves open at the same time to thereby reduce the pressure of the material throughout the apparatus to that of the pressure of the material in said container.

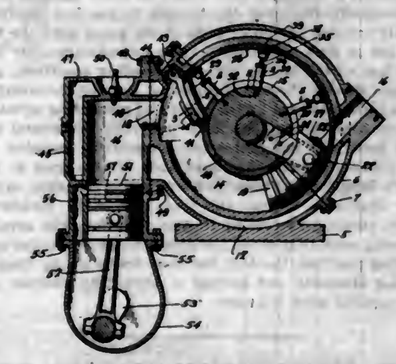
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1,694,097. CELLULOSE-NITRATE SOLUTION. MARION B. HOPKINS, Elizabeth, and HYYM E. BUC, Roselle, N. J., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 3, 1922. Serial No. 549,189. 10 Claims. (Cl. 134—79.)

5. A solution of cellulose nitrate in a liquid mixture containing nitro-compounds of aliphatic hydrocarbons, ethyl alcohol and benzol.

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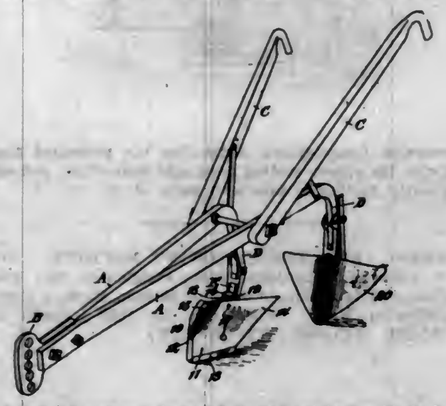
1,694,098. INTERNAL-COMBUSTION ENGINE. RICHARD J. LEE, Marrero, La. Filed Oct. 31, 1927. Serial No. 229,960. 2 Claims. (Cl. 123—15.)



1. In an internal combustion engine, a cylinder having an axis describing a closed curve, a longitudinally curved piston movable in the cylinder, the inner side of the cylinder being formed with an annular slot, an arcuate filler piece fixed to the piston and movable in the slot, an arcuate band segment having inwardly directed end extensions one of which is fixed to the piston and the other of which is engaged with the filler piece, a second cylinder having a port communicating with a port of the first cylinder, a flat valve in the first cylinder closable over the ports by the band segment and the second mentioned extensions, a piston movable in the second cylinder, means operatively connecting the pistons to cause the simultaneous rotation of the first piston with the reciprocation of the second piston, means to ignite an explosive mixture in the second cylinder to drive both pistons, means cooperable with the second piston and cylinder for admitting the explosive mixture and compressing the same, said first cylinder having an exhaust port, said means operatively connecting the pistons including a rotor, a connecting rod extending through the slot and connected with the first pieton and the rotor, and gearing and a crank shaft and connecting rod operatively connecting the rotor with the second piston, spokes radiating from the rotor through the slot and engaged with the band segment.

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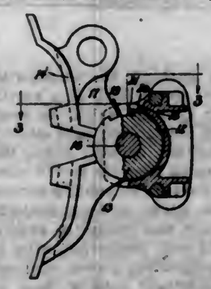
1,694,099. CULTIVATOR BLADE OR SOD SCRAPER. DAVE DUNLOP LOW, Mont Helena, Miss. Filed Sept. 14, 1926. Serial No. 135,877. 1 Claim. (Cl. 97—203.)



A concavo-convex, diamond-shaped cultivator blade having a substantially vertical curved forward cutting edge; a substantially horizontal cutting edge merging into the said vertical edge and forming a sharp cutting point; a rearwardly pointed moldboard portion; and approximately vertically alined securing means to secure said blade to a cultivator standard; said forward cutting portion of the blade having a forwardly projecting lip at the upper portion thereof and said vertical and horizontal portions of the blade being beveled at the front and rear of the blade to form said cutting edges.

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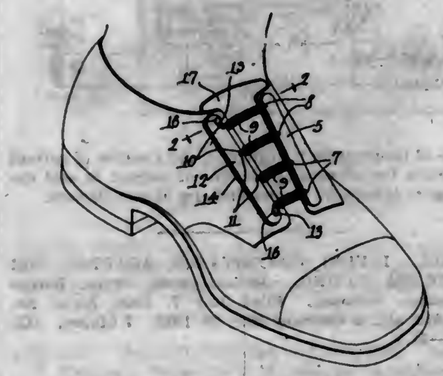
1,694,100. SAFETY APPLIANCE FOR BRAKE BEAMS. CHARLES V. MARQUART, Sandusky, Ohio. Filed Feb. 7, 1928. Serial No. 252,576. 6 Claims. (Cl. 188—230.)



6. A brake head having a hub pivotally connected to a brake beam; and a self-locking connection between the hub and beam to prevent accidental separation.



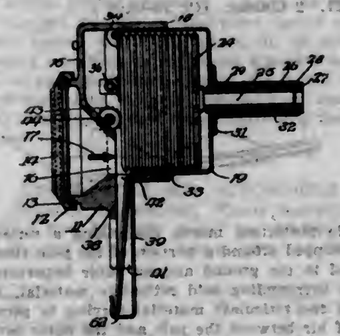
1,694,101. SHOE FASTENER. WILLIAM RANDALL MCCLURE, Chicago, Ill. Filed May 28, 1928. Serial No. 281,161. 3 Claims. (Cl. 24—73.)



1. A shoe fastener of the class described including a bar having hooks to be positioned in the eyelets of a shoe upper, a bar having hooks positioned in the eyelets at the opposite sides of the shoe upper, coiled springs connected with the first mentioned bar, a movable bar connected with the springs, and means for detachably connecting the second mentioned bar and movable bar.

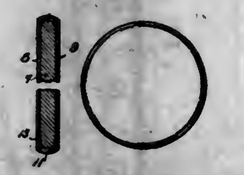
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1,694,102. AUTOMOBILE LUBRICATION INDICATOR. LOGAN T. MCMENEMY, Chicago, Ill. Filed Oct. 20, 1920. Serial No. 418,146. 11 Claims. (Cl. 116—114.)



6. A device of the class described, comprising, a casing adapted to hold a series of individual and structurally independent sheets, respectively containing instructions relative to the care of an automobile at predetermined intervals, and means carried by said casing and operably driven in correspondence with the movement of the automobile for consecutively ejecting said sheets individually at predetermined intervals, and for discharging each individual sheet into a receptacle formed on the casing, where it may attract attention and be withdrawn therefrom.

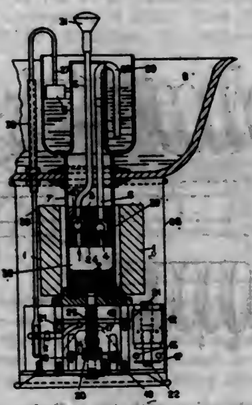
1,694,103. GAME COUNTER AND PROCESS OF MAKING THE SAME. WILLIAM J. MCNALLY, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed June 24, 1927. Serial No. 201,135. 6 Claims. (Cl. 154—2.)



3. A game counter comprising a disc body of sheet material, a paper disc applied upon each surface of the disc body, the peripheries of the disc body and paper discs substantially registering with each other, and a rounded edge of wax-like material, said material extending over the peripheral edges of the paper discs.

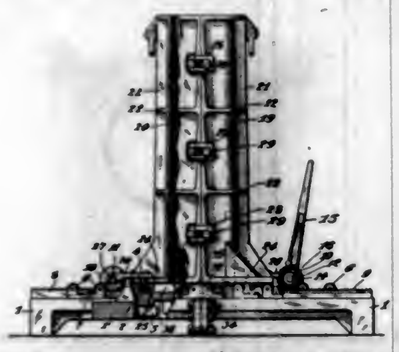
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1,694,104. PUMP FOR ATOMIZERS. REINHOLD MENSCHEL, Berlin, Germany. Filed Nov. 4, 1927, Serial No. 231,128, and in Germany Aug. 17, 1926. 3 Claims. (Cl. 103—26.)



1. In a portable atomizer for rooms and the like, in combination, a receptacle adapted to receive the liquid to be atomised, a cylinder located below this receptacle, a suction-valve arranged in the upper part of this cylinder and a pipe extending from this valve to said receptacle; a delivery valve also arranged in the upper part of the cylinder, and a delivery pipe extending from this valve upwards to above the said receptacle; a piston-forming solenoid-core in the lower part of said cylinder, a solenoid coil encompassing the cylinder on an adequate length, a change-over switch inserted into the circuit of this coil, and means for operating this switch automatically to cause to-and-fro movement of said piston-forming core.

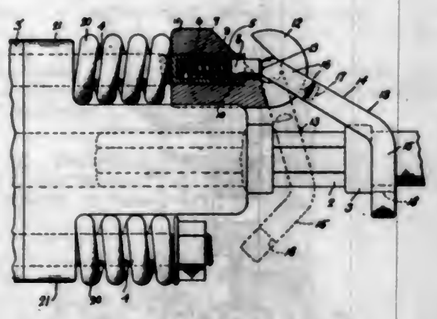
1,694,105. CORE BOX FOR INGOT MOLDS. JOHN EDMUND PERRY, Sharon, Pa., assignor to Valley Mould and Iron Corporation, Sharpsville, Pa., a Corporation of New York. Filed Apr. 2, 1927. Serial No. 180,374. 17 Claims. (Cl. 22—13.)



1. A core box for ramming core bars for ingot molds comprising a base frame, core box side members setting on said base frame and capable of being freely lifted from said base frame, said side members having rectilinear movement on said base frame, and means cooperating with said sides and said base frame to move said sides on said base frame to open and close said core box.

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1,694,106. STEEL RETAINER FOR ROCK DRILLS. LEO L. RICHARDSON, Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Filed Apr. 14, 1927. Serial No. 183,645. 5 Claims. (Cl. 121—32.)

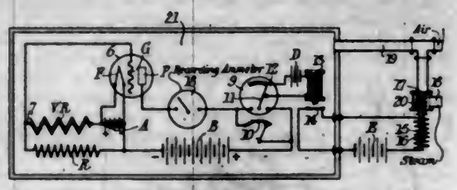


1. The combination with the cylinder of a rock drill, of a front head therefor, a drill steel operatively connected with the front head and provided with a collar, side rods for holding the front head and cylinder together, a block upon one side of the side rods, a spring pressed plunger slidably contained in said side rod, a drill steel retainer encircling the drill steel in advance of the collar, said retainer being pivotally engaged with the block and yieldably engaged by the plunger.

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1,694,107. SYSTEM FOR DETECTING AND CONTROLLING HUMIDITY VARIATIONS. WALTER R. STARKING, Rochester, N. Y. Filed Mar. 24, 1926. Serial No. 97,149. 12 Claims. (Cl. 236—44.)

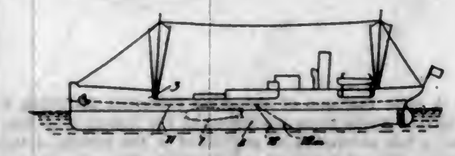
1. Means for detecting variations in the humidity of the atmosphere comprising an electrical circuit including an element, the conductivity of which is a function of the humidity of the surrounding atmosphere, the change of conductivity due to change in humidity being of a magnitude compared to which the change of conductivity due to



change of temperature is negligible, and a source of current and means for detecting variations of current in said circuit due to changes in the conductivity of said element.

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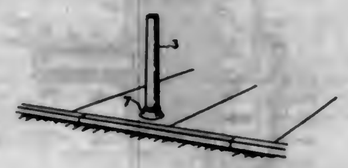
1,694,108. DIVING CONTRIVANCE ADAPTED FOR DEEP-SEA DIVING. JOHANN-GEORG STEIN, Berlin-Halensee, Germany. Filed July 7, 1926, Serial No. 121,012, and in Germany Mar. 20, 1925. 7 Claims. (Cl. 114—51.)



1. A contrivance for deep-sea diving at very great depths comprising in combination a main-vessel having in the interior a shaft open at the lower side and arranged to receive a submarine, a submarine adapted to be accommodated in the said shaft and an electric cable connecting the submarine to the main-vessel.

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1,694,109. POLE-PROTECTING DEVICE. NICHOLAS JOHN TOCKAR, North Vancouver, British Columbia, Canada, assignor to Viggo Laursen, Vancouver, British Columbia, Canada. Filed July 11, 1927. Serial No. 204,921. 2 Claims. (Cl. 20—100.)



1. Pole protecting means comprising a reticulate material wrapped around a portion of the pole that is to be embedded in the ground and an outer imperforate metal covering surrounding said reticulate material, the interstices of the reticulate material serving to permit circulation of air between the pole and the outer covering.

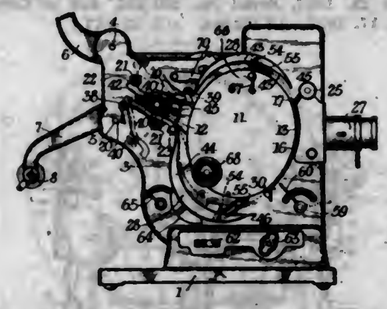
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1,694,110. MOTION-PICTURE PROJECTOR. HOWARD C. WELLMAN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 21, 1927. Serial No. 200,455. 3 Claims. (Cl. 88—17.)

1. In a motion picture projector, means for guiding and automatically directing the lead end of a film through the projector and comprising a frame, series of guide members carried on the front of the frame and comprising a casing fixed on the frame and members outside of said casing and movable to and from said casing and forming tunnels for the purpose specified when near said casing,



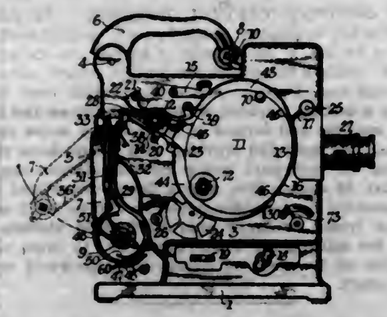
and when separated leaving spaces open away from the frame, whereby film can be threaded between them in an edgewise direction, and a unitary control for moving the



members simultaneously, said control being on the inner sides of said members whereby the open side spaces will be left clear for the edgewise insertion or removal of film.

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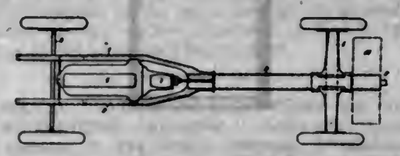
1,694,111. MOTION-PICTURE PROJECTOR. HOWARD C. WELLMAN, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 21, 1927. Serial No. 200,456. 20 Claims. (Cl. 242—55.)



1. In a motion picture apparatus, a frame, an arm having a reel support, two film guiding arms shaped to direct film to and around said reel support, all of said arms being movably connected to the frame whereby they may be moved between positions adjacent the frame and extended positions and a force transmitting connection between at least two of said arms controlling their relative positions.

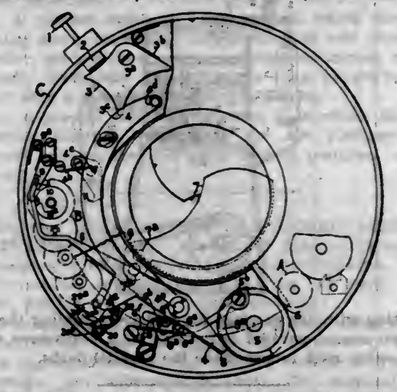
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1,694,112. UNDERFRAME FOR AUTOMOBILE VEHICLES. OTHMAR WINDBRONR, Wiener-Neustadt, Austria. Filed Nov. 21, 1927, Serial No. 234,881, and in Austria May 29, 1926. 12 Claims. (Cl. 180—57.)



1. In a motor vehicle, the combination with front and rear axles, of a member secured to said axles comprising a twist restraining tubular member secured adjacent one of its ends to a median point on one of said axles and extending at right angles thereto, a forked member forming longitudinal beams rigidly secured to the other end of said tubular member and secured to the other of said axles, said forked member forming means to support a motor mounting for said vehicle.

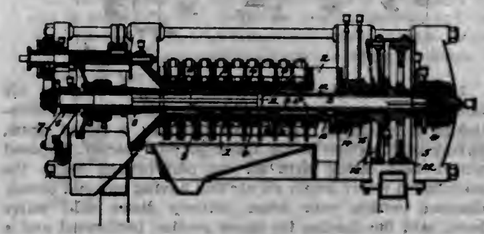
1,694,113. SHUTTER MECHANISM FOR PHOTOGRAPHIC APPARATUS. JACQUES WOLF, Basel, Switzerland. Filed Jan. 21, 1928, Serial No. 248,388, and in Switzerland Jan. 29, 1927. 7 Claims. (Cl. 95—63.)



1. In a shutter mechanism for photographic apparatus, a movable shutter, a driving spring barrel, connecting means between the driving spring barrel and the shutter, an automatically controlled locking lever for said driving spring barrel, a spring barrel delay mechanism arranged to bring said automatically controlled locking lever into locking position when being put under tension and to hold same therein, and means, controlled by said delay mechanism, for allowing said automatically controlled locking lever to release the driving spring barrel on running down of the delay mechanism.

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1,694,114. PRESS. FREDERICK V. ANDERSON, Lakewood, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 14, 1926. Serial No. 122,413. 6 Claims. (Cl. 100—48.)



1. A feeding and compression element for a press of the character herein described, comprising a quill-like member having a flight thereon, one end of said member being reduced in diameter; and a sleeve mounted on and secured to said reduced portion, said sleeve being likewise formed with a flight.

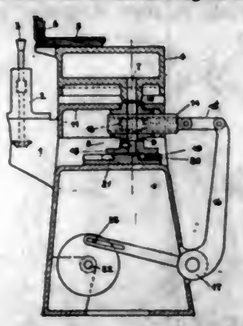
3. A shaft assembly for screw presses comprising in combination a shaft; a pair of bearings for said shaft one of which may be readily dismounted; a thrust abutment on the shaft; a quill rotatable on the shaft independently thereof; at least one pressing element removably mounted on said shaft to turn therewith in thrust engagement with said abutment; and a feeding element removably mounted on said quill and capable of withdrawal over said abutment while the quill and shaft remain assembled.

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1,694,115. DOVETAILING, COGGING, AND INDENTING MACHINE. PAUL BÖTTCHER, Atona-Bahrenfeld, near Hamburg, Germany. Filed Jan. 21, 1927, Serial No. 162,655, and in Germany Jan. 23, 1926. 16 Claims. (Cl. 144—87.)

1. In a dovetailing machine and the like in combination, cutting means and work supporting means relatively

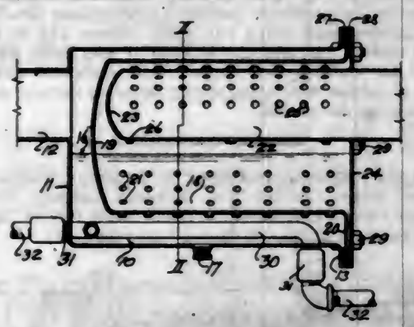
movable with relation to each other, an alternately and successively rectilinearly and oscillatingly movable supporting carriage for one of the moving means and means



coacting with the carriage for positively guiding the same in two spaced parallel paths and in a transverse curved connecting path intermediate the parallel paths.

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1,694,116. AIR CLEANER. FREDERICK O. CATRON, Memphis, Tenn., assignor of one-half to Nettie P. Catron, Memphis, Tenn. Filed Oct. 10, 1927. Serial No. 225,177. 4 Claims. (Cl. 183—22.)

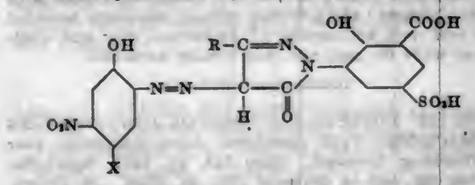


1. In an air cleaner, a closed casing having an air inlet into the upper portion thereof, and means for establishing a maximum water level therein; a closed drum, having perforations in the lower portion thereof, disposed within said casing with all the perforations below the established water level; an air flue having one end closed, disposed within said drum entirely above said water level, said flue having its upper portion perforated and a minor number of drain perforations in the bottom thereof; and a heating coil disposed within said casing entirely beneath said water level.

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1,694,117. AZO DYESTUFFS AND PROCESS FOR PREPARING THE SAME. HEINZ EICHWEDE, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 21, 1926, Serial No. 156,259, and in Germany Dec. 23, 1925. 7 Claims. (Cl. 260—87.)

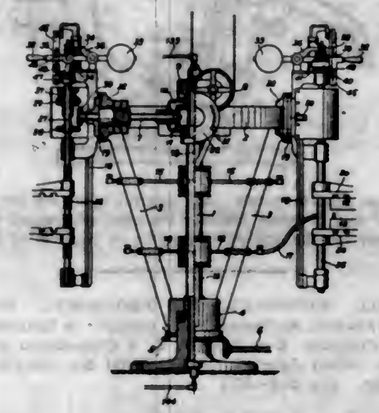
4. As new products, azo dyestuffs of the general formula—



wherein *a* represents hydrogen or chlorine and R stands for—

$-CH_3$, —COOH or —COO.alkyl.

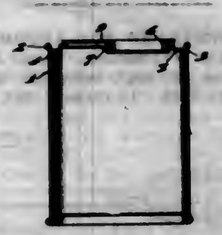
1,694,118. CASTING APPARATUS. FRIEDRICH EHRMANN, Stuttgart-Feuerbach, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed June 25, 1927, Serial No. 201,456, and in Germany Jan. 17, 1927. 19 Claims. (Cl. 22—77.)



7. In a casting machine, a mold mounted on the frame of the machine and formed of two parts, a screw spindle engaging said mold and provided with a right-hand thread engaging one mold-part and a left-hand thread engaging the other, in combination with a double gear-wheel shiftably mounted on the screw-spindle, a rotary shaft on the machine frame having a gear-wheel fixed thereon and means for shifting the double gear-wheel to cause one or the other of its gears to engage the gear-wheel on the rotary shaft.

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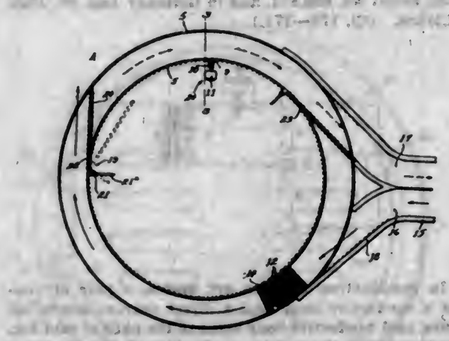
1,694,119. CAN. JACOB FRANK, Cincinnati, Ohio, assignor to The Frank Tea & Spice Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 5, 1927. Serial No. 231,363. 2 Claims. (Cl. 221—61.)



1. In a can, a can top provided wtih an oblong pour-out opening and a cover having a dish portion and handle portion, the dished portion providing a friction closure for said pour-out opening, and the cover individually constituting a handled measure bowl and scoop for measured quantity service of the can contents, and insertable into the can through said pour-out opening.



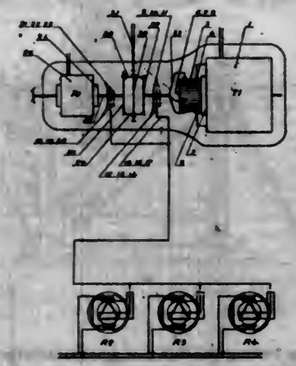
1,694,120. APPARATUS FOR CLEANING AND POLISHING AUTOMOBILES. BEE K. GILLESPIE, Los Angeles, Calif. Filed Aug. 23, 1927. Serial No. 214,936. 11 Claims. (Cl. 104—44.)



1. In an apparatus for use in the cleaning and polishing of automobiles, an annular revoluble horizontal platform, means to permit an automobile to be propelled upon the platform and means in the construction of the platform to permit the automobile to be delivered away from the platform from one of a number of relatively spaced apart exits.

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1,694,121. ELECTRIC DISTANT-CONTROL DEVICE. ELIE GRANAT, Paris, France, assignor of one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France, a Company of France. Filed Feb. 8, 1927, Serial No. 166,801, and in France Mar. 3, 1926. 11 Claims. (Cl. 172—239.)



1. Electric control system comprising a transmitter and a receiver disposed at the same transmitting station, other receivers at a certain distance from said transmitting station, a control device adapted to shift the phase of the current sent by the transmitter into all the receivers with reference to the mains feeding the transmitter and means whereby the first mentioned receiver is adapted to keep up the phase shifting obtained.

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1,694,122. CATALYTIC OXIDATION OF ORGANIC COMPOUNDS. ALPHONS O. JAEGER, Pittsburgh, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Nov. 24, 1926. Serial No. 150,623. 64 Claims. (Cl. 260—108.)

51. A method of catalytically oxidizing toluol to benzaldehyde and benzoic acid in the vapor phase which comprises causing vapors of toluol admixed with oxygen-containing gases at an elevated temperature to pass over a catalyst containing a zeolite and which preferentially catalyzes the reaction, said catalyst having associated with it a non-alkaline salt of an alkali-forming metal.

1,694,123. CONTACT SULPHURIC-ACID PROCESS. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Mar. 10, 1927. Serial No. 174,414. 22 Claims. (Cl. 23—175.)

1. A contact sulphuric acid process which comprises passing gases containing sulphur-dioxide and oxygen at reaction temperatures over a catalyst containing a catalytically ineffective base exchange body physically combined with a catalytically effective diluent.

22. A process according to claim 1, in which the catalytically effective components are not platinum components and the reaction gases contain platinum catalyst poisons.

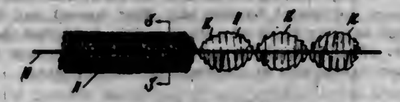
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1,694,124. PURIFICATION OF BENZOIC ACID AND ITS DERIVATIVES. ALPHONS O. JAEGER, Crafton, Pa., assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Oct. 17, 1927. Serial No. 226,820. 6 Claims. (Cl. 260—108.)

1. A method of separating benzoic acids from phthalic acids, which comprises causing the mixture to contact with vapors of organic solvents for benzoic acid at temperatures not substantially above the temperature at which the phthalic acids are transformed into the anhydrides whereby the benzoic acids are sublimed off.

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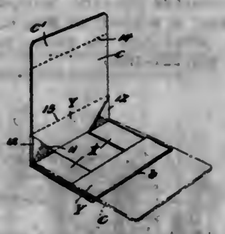
1,694,125. DECORATIVE WREATH. WILLIAM G. JOPSON, Williamsport, Pa., assignor to C. A. Reed Company, Williamsport, Pa., a Corporation of Delaware. Filed July 12, 1927. Serial No. 205,194. 5 Claims. (Cl. 41—12.)



1. An ornamental figure comprising a semi-rigid core and a strip of sheet material twisted therearound, said strip having a series of transverse waves therein forming wavy edges, and presenting both its edges to define the surface of the figure.

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1,694,126. METHOD OF MAKING COLLAPSIBLE BOXES. FRANK M. JOSLIN, Amsterdam, N. Y. Filed Mar. 26, 1927. Serial No. 178,591. 6 Claims. (Cl. 93—49.)



1. The process of producing from a single blank a collapsible box in collapsed condition which consists in folding two opposite edge portions of the blank inwardly and downwardly over the body of the blank, folding the other two opposite edges of the blank inwardly and downwardly upon said first named folded portions, the corners of said blank between the lines of fold forming gussets which are folded down upon said first named folded portions during said second folding operations, and adhesively securing the inner portion only of each of said folded gussets to the adjacent outer surfaces of said first named folded portions.

1,694,127. PROCESS FOR THE MANUFACTURE OF CELLULOSE ETHERS. OTTO LAUCHA, Elberfeld, and EDUARD DÜRR, Elberfeld-Sonnborn, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Oct. 31, 1927, Serial No. 230,180, and in Germany Nov. 8, 1926. 2 Claims. (Cl. 260—152.)

1. In the process for the manufacture of cellulose ethers, the step which comprises the removal of water during the etherification and the addition of caustic alkalies to the alkylating mixture.

1,694,128. CATTLE GUARD. FRED LOCKETT, Vancouver, British Columbia, Canada. Filed Apr. 25, 1927, Serial No. 186,495, and in Canada May 25, 1926. 2 Claims. (Cl. 39—20.)

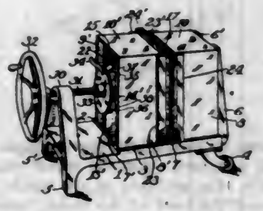


1. A cattle guard for railways comprising a frame including an end plate having an arcuate inner curve, a platform having one end in substantial contact with said curve and operatively connected at the other end to a normally horizontal barrier said first named end being adapted to move about an axis as weight is applied thereto and to effect the raising of the barrier, said axis being common to the axis of the curve of the end plate.

1,694,129. MANUFACTURE OF ARTIFICIAL LEATHER. PHILIP MAGNUS, Leichhardt, near Sydney, New South Wales, Australia. Filed Feb. 12, 1926, Serial No. 87,978, and in Australia Mar. 2, 1925. 2 Claims. (Cl. 106—3.)

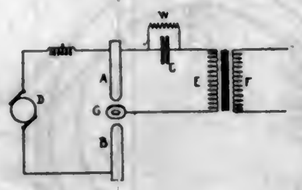
1. An artificial leather consisting of cleaned scrap leather incorporated in a mixture of glue, glycerine, boiled linseed oil, carbolic oil, ammonium bichromate and calcium chloride.

1,694,130. METHOD OF AND MEANS FOR MAKING MOLDS. CHARLES MARTIN MALLORY, Chattanooga, Tenn., assignor of one-half to Earl C. Mallory, Indianapolis, Ind. Filed July 28, 1926. Serial No. 125,544. 15 Claims. (Cl. 22—198.)



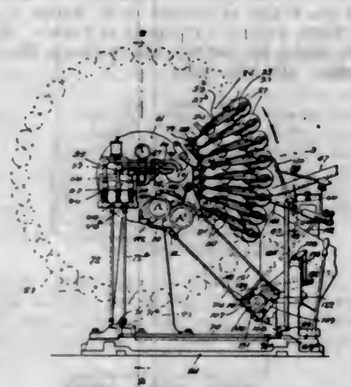
1. The method of making sand molds which consists in compactly pressing sand to opposite sides of a pattern and simultaneously discarding surplusage sand from the back of the molds.

1,694,131. ARRANGEMENT FOR USE IN TELEPHONY. EMIL MAYER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany, a Corporation of Germany. Filed July 21, 1923, Serial No. 652,871, and in Germany Aug. 30, 1922. 4 Claims. (Cl. 179—171.)




1. In combination with an arc device, a pair of electrodes a conductive body and a direct current source all in series, said conductive body being in the path of said arc, means for varying the resistance of said path in accordance with sound energy and means controlled thereby for affecting said conductive body.

1,694,132. CAN-TESTING MACHINE. CHARLES D. McDONALD, Chicago, Ill., assignor to McDonald Machine Co., Chicago, Ill., a Corporation of Illinois. Filed June 6, 1927. Serial No. 196,935. 18 Claims. (Cl. 73—51.)

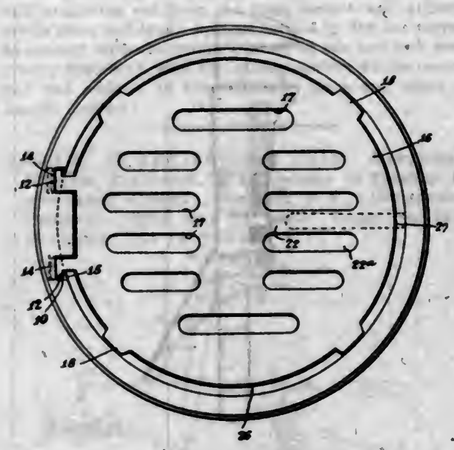


1. In a can testing machine, a pneumatically operated selector comprising a pair of balanced air gauge springs arranged to be connected respectively to a can to be tested and to an associated air balancing tank, motion transmitting means for transmitting motion from a prime mover to a can separating mechanism, and normally inactive means, operated by said air gauge springs under the influence of differential pressure therein, and forming an operative connection in said motion transmitting means.

1,694,133. MANHOLE COVER. EDWARD T. McHUGH, deceased, Holyoke, Mass., by Agnes J. McHugh, executrix, Holyoke, Mass. Filed Apr. 15, 1922. Serial No. 553,244. 4 Claims. (Cl. 94—34.)

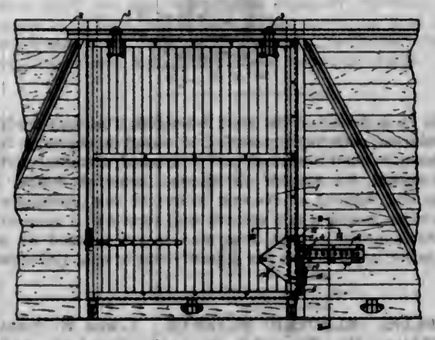
1. A manhole cover consisting of the combination with a base ring of a cover, the base ring having recesses spaced from each other on one side thereof, each of said recesses having an underlying support and an overlying stop lug of less horizontal extent than the length of the support, said base ring also having a pendant and inwardly projecting lug on the side opposite to the recesses, the cover having hinge lugs disposed in the recesses under the stop lugs thereof and supported on the said supports, the cover also having a weighted latch pivoted thereto and adapted to engage the pendant lug, the cover having a pair of





hand holes spaced apart from each other by an imperforate portion overlying said latch and normally concealing the same from view.

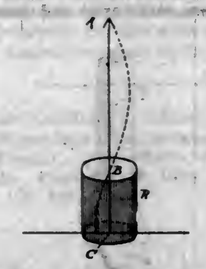
1,694,134. DOOR OPENING AND CLOSING MECHANISM. JOHN McMULLEN, Buffalo, N. Y. Filed July 2, 1925. Serial No. 41,230. 8 Claims. (Cl. 268—6.)



1. The combination with a sliding door, of a rack bar adjacent the rear of the door opening, a lever slidably pivoted upon the rear edge of said door and swingable at right angles thereto for engaging with said rack bar, said lever having a locking prong adapted for engagement with said rack bar, and means for locking said lever to said door with said prong in locking engagement with said rack bar.

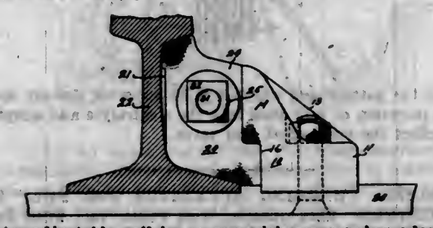
1,694,135. ANTENNA FOR ELECTRIC WAVE TRANSMISSION. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed July 15, 1925, Serial No. 43,683, and in Germany July 25, 1924. 9 Claims. (Cl. 250—33.)

1. An antenna for electric wave transmission through space, comprising an aerial conductor, and a conductive body located adjacent only the lower portion thereof and having a height equal to substantially one-third of the



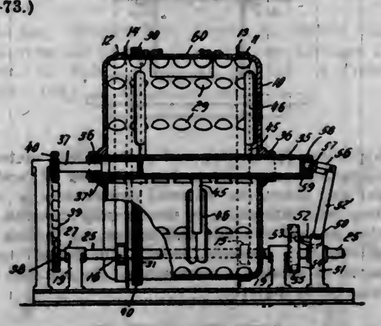
height of said aerial, said conductive body being coupled with the aerial to reinforce the energy transmitted therefrom.

1,694,136. RAIL BRACE. JAMES C. MOCK, Detroit, Mich. Filed Sept. 1, 1927. Serial No. 216,802. 1 Claim. (Cl. 238—292.)



An adjustable rail brace comprising a member adapted to be secured to a tie plate and having angularly arranged parallel shoulders on its outer face with a perforated lug therebetween and near one end of said shoulders, a rail contacting member consisting of a channeled block whose outer face conforms to the side of a rail and whose edges are angularly arranged to mate with said shoulders, a slotted web closing one end of said channel, and a bolt passing through said lug and said web.

1,694,137. MIXER. ALBERT MOYER, New York, N. Y. Filed June 12, 1928. Serial No. 284,866. 7 Claims. (Cl. 83—73.)



1. A mixer comprising a rotatable receptacle, a rotatable member extending into the receptacle, stirrers mounted on said member, and means for shifting said rotatable member axially during its rotation.

1,694,138. HYDROMETER. HERMAN NEUWIRTH, Brooklyn, N. Y., assignor to Testrite Instrument Co., New York, N. Y., a Firm composed of Herman Neuwirth and Jacob Bernstein. Filed June 30, 1926. Serial No. 119,666. 9 Claims. (Cl. 265—45.)

1. A hydrometer of the class described comprising a barrel and means for drawing liquid thereinto, a stem at-

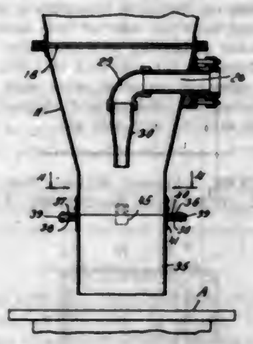
tached to one end of the barrel adapted to be inserted into the electrolyte of a battery, a valve for shutting off the flow of liquid from said barrel and means co-operating



with the battery and adapted to be operated thereby upon the insertion of said stem into the electrolyte and adapted to effect the opening of said valve.

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1,694,139. CHARGING APPARATUS FOR PULP DIGESTERS. ELIS OLSSON, West Point, Va. Filed June 30, 1927. Serial No. 202,504. 6 Claims. (Cl. 92—7.)

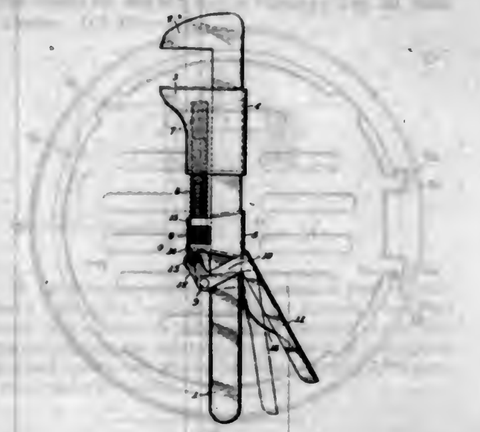


1. Apparatus for feeding and packing pulp material in a pulp-digester comprising a chute adapted to receive the material and direct the material downwardly, a conduit extending into said chute, a downwardly directed nozzle connected to said conduit, and means for forcing liquor at relatively high pressure through said conduit and nozzle, thereby to accelerate movement of the material and to pack same in the digester.

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1,694,140. WRENCH. WALTER I. O'NEILL, New York, N. Y. Filed Dec. 20, 1924. Serial No. 757,106. 1 Claim. (Cl. 81—87.)

A wrench comprising a shank having a jaw at one end and a handle at the other end, a jaw movably mounted upon the shank to cooperate with the first mentioned jaw, means for adjusting the second mentioned jaw comprising screw threads formed in the said second mentioned jaw and a screw extending parallel to the shank and engaging the said screw threads, means for moving the adjusting means and second mentioned jaw as a unit comprising a pivot provided on the shank, a lever mounted upon the pivot and having one arm extended in proximity to the handle and other arm in proximity to the adjusting means, and a roller carried by the last named arm



in position to actuate the adjusting means, the parts being arranged so that in operative position, the roller and pivot are in a line nearly parallel to the screw.

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1,694,141. ELECTRIC RECEPTACLE. JAMES W. PHELPS, Chicago, Ill. Filed May 24, 1924, Serial No. 715,556. Renewed Feb. 3, 1927. 10 Claims. (Cl. 200—115.5.)



1. In a device of the kind described, a unitary body of insulation material presenting a socket upstanding from a base, a shell terminal and a central terminal within the socket, an electric thermostat mounted within the base and secured at one end to one of said terminals by the same means which secures said terminal, a connection plate mounted on the base, and means carried by said plate for contact with the opposite end of said thermostat.

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1,694,142. ELECTRIC FLASHER. JAMES W. PHELPS, Chicago, Ill. Filed Feb. 17, 1926. Serial No. 88,969. 1 Claim. (Cl. 200—115.5.)



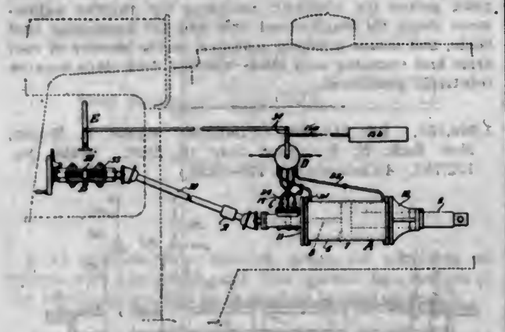
A device of the kind described, comprising a metallic tubular shell formed into a socket at one end and a plug at the other, a flat bar of insulation material fixed within



the shell and extending centrally through the shell from the outer end of the plug to the base of the socket and presenting spaces on each side of the flat bar, bendable center contacts for the plug and socket carried by the bar and projecting out from the ends thereof, and a thermostatic make and break element carried by the bar normally in contact with the center contact at one end and permanently connected with the center contact at the opposite end and adapted to intermittently make and break said normal contact.

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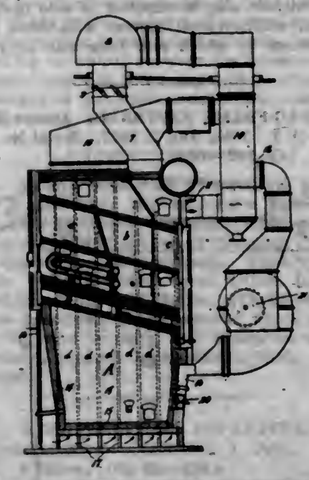
1,694,143. POWER REVERSE GEAR. MONTAGUE H. ROBERTS, Englewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y., a Corporation of Delaware. Filed May 23, 1925. Serial No. 32,307. 10 Claims. (Cl. 121—38.)



1. The combination with a pressure fluid operated power reverse gear having a servo-governor control valve for normally operating the gear, of a manually operated control valve for operating the gear independently of said servo-governor valve, and a common source of pressure fluid for the valves, said manually operated valve when in normal position admitting operating fluid to the servo-governor valve, and when in operating position cutting off said fluid from the servo-governor valve.

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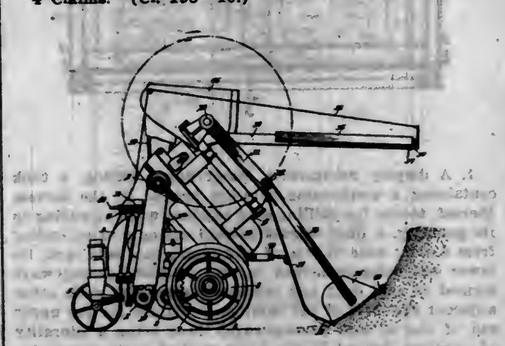
1,694,144. FURNACE. FAY H. ROSENCRANTS, Bushey, England, assignor to International Combustion Engineering Corporation, a Corporation of Delaware. Filed Nov. 13, 1925. Serial No. 68,783. 5 Claims. (Cl. 110—56.)



1. In combination, a boiler furnace having hollow rear, side and bottom walls, an offtake, a waste gas air heater, an air inlet in an upper part of the back wall, and breaching communicating with the upper part of the side walls together with means whereby air for combustion is caused to pass downwardly through the rear wall into the bottom wall upwardly through the side walls and through the air heater to the combustion space of the furnace.

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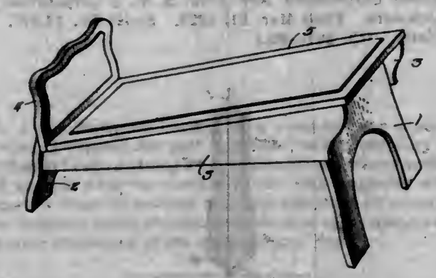
1,694,145. MECHANICAL LOADING DEVICE. GEORGE F. ROYER, Wilkes-Barre, Pa., assignor to Royer Foundry & Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Apr. 28, 1926. Serial No. 105,184. 4 Claims. (Cl. 198—10.)



1. In an apparatus of the character described, the combination of a truck, a shaft supported in bearings on the truck and provided with two substantially parallel radially projecting arms, a scoop pivotally supported between said arms and projecting beyond the body of the truck, a guide arm projecting beyond the truck and over the scoop, means for rotating the shaft, whereby the pivotal support of the scoop will travel in a circular path, a track member extending longitudinally of the guide arm and pivotally connected thereto adjacent the free end of the arm, said track member extending into the path of the scoop as the latter is carried upward by rotation of the shaft, and means on the scoop engaging said track and causing the scoop to travel longitudinally thereof away from the truck during a portion of the circular movement of the pivotal support for the scoop.

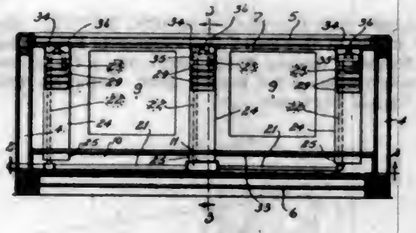
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1,694,146. FOOTSTOOL AND LEG REST. DENNIS S. SATTLER and FREDERICK H. MCCUEN, Chicago, Ill. Filed Jan. 16, 1928. Serial No. 247,161. 3 Claims. (Cl. 155—169.)



1. A foot stool and leg rest comprising a pair of leg members of unequal height inclined upwardly toward each other; a pair of side rails connecting the upper portions of the two leg members, the side rails having their upper edges in a common plane inclined upwardly away from the shorter leg member; a top seated on the upper edges of the two side rails, and a foot-board clamped between the upper portion of the shorter leg member and the adjacent end of the said top.

**1,694,147. DISPLAY REFRIGERATOR.** ALFRED H. SIEBERT, St. Louis, Mo., assignor to St. Louis Butchers' & Hotel Supply Co., St. Louis, Mo., a Corporation of Missouri. Filed Dec. 13, 1926. Serial No. 154,891. 4 Claims. (Cl. 62—104.)

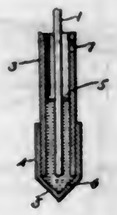


1. A display refrigerator comprising a casing, a tank containing a nonfreezing solution located in the bottom thereof, means for chilling said solution without adding to its quantity, a duct located in said casing and extending from a point near the top of said casing into said tank, its lower end being immersed in said solution, passageways formed in said duct and communicating with each other adjacent the level of the solution, a closure for the upper end of one of said passageways, there being a plurality of openings formed in the front wall of said passage below the closure, the other passageway being open at the top, means for circulating and forcibly spraying said nonfreezing solution downward vertically through said last mentioned passageway whereby air is drawn therein from the top of the casing and chilled and then forced upward in the closed passage, said chilled air being redischarged into the casing adjacent its top.

**1,694,148. DRY LUBRICATION OF TEXTILE MACHINES.** JOHN SPALDING, Stamford, Conn., assignor to Albert T. Otto & Sons, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1926. Serial No. 130,354. 3 Claims. (Cl. 87—9.)

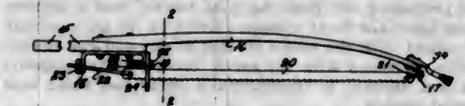
1. The method of lubricating bobbins and other parts of textile machines subject to contact with the textile product, which consists in applying thereto a metal salt of a fatty acid in a dry powder form insoluble in water.

**1,694,149. ELECTRICAL RESISTANCE.** CHARLES E. VAWTER, Philadelphia, Pa., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 21, 1925. Serial No. 17,377. 1 Claim. (Cl. 201—63.)



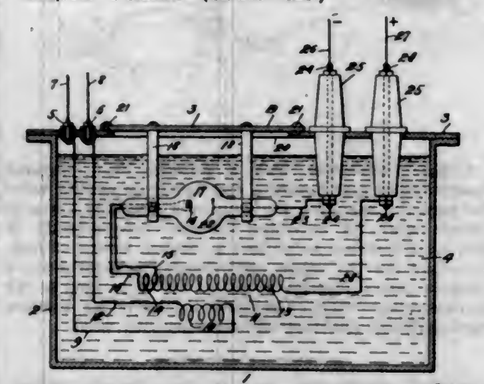
A resistance member comprising an element of low electrical conductivity, an insulating sleeve to encase said element, and caps of conductive material to close the extremities of said sleeve, with a metallic binding material in the ends of said sleeve and engaging said ends in said caps to hold the caps in place, the sleeve being perforated between said caps.

**1,694,150. SAW.** GEORGE C. VOSS, Exira, Iowa, assignor of one-third to John H. Rendleman and one-third to Roy R. Wiard, Exira, Iowa. Filed July 21, 1927. Serial No. 207,444. 4 Claims. (Cl. 145—33.)



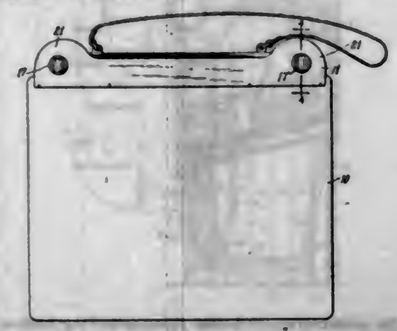
1. A saw comprising a relatively long handle, a spring bow on and extending longitudinally from one end of said handle, a U-shaped yoke having arms of unequal length mounted with the shorter of said yoke arms toward the free end of said bow on said handle adjacent and opposite to the fixed end of said bow, a flexible, toothed blade between the free end of said bow and the longer arm of said yoke, means for pivotally mounting for angular adjustment about its longitudinal axis and for tensioning said blade, and means pivotally mounted on the shorter of said arms and engaging said blade whereby said blade may be rotatively positioned.

**1,694,151. RECTIFYING SYSTEM.** HARRY F. WAITE, New York, N. Y. Filed July 16, 1926. Serial No. 122,791. 4 Claims. (Cl. 175—326.)



1. A high tension current rectifying device, comprising a tank with oil therein, a high tension step up transformer in said oil, a hot cathode valve tube in said oil, wires connecting said transformer and tube, so that a low potential alternating current may be supplied to said device and a high tension, unidirectional current withdrawn from the same and means by which said tube may be separately removed.

**1,694,152. BAG-FRAME FASTENER.** JULIUS WARBURG, Brooklyn, N. Y. Filed Aug. 9, 1927. Serial No. 211,672. 5 Claims. (Cl. 292—70.)

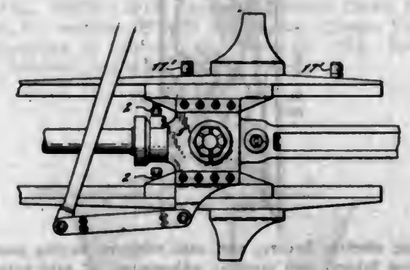


1. The combination with two separable rigid frame pieces; of latching means therefor, comprising cooperating



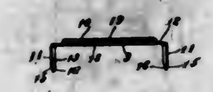
fastening elements held by the respective pieces against withdrawal therefrom and adapted to hold said pieces securely to each other, and means associated with said frame pieces whereby to rock the same and effect disengagement of the fastening elements and detachment of the one frame piece from the other.

**1,694,153. METHOD OF LUBRICATION AND APPARATUS THEREFOR.** LEWIS S. WATRES, Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 15, 1923. Serial No. 674,813. 5 Claims. (Cl. 184—45.)



2. In combination a bearing, means for supplying oil thereto and a graphite stick held against one surface of the bearing in position to be reached by said oil supply.

**1,694,154. WINDOW-SHADE FIXTURE.** JOHN W. WESTENDORF, Baltimore, Md. Filed Aug. 23, 1926. Serial No. 130,863. 2 Claims. (Cl. 156—24.)



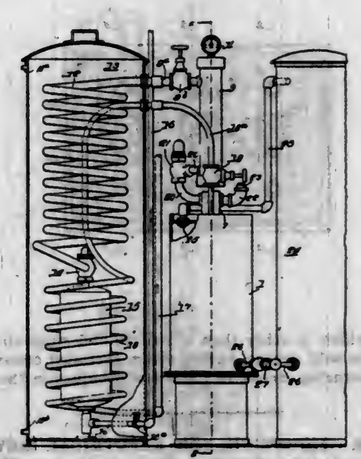
1. In a window-shade fixture the combination with a guide-member having out-turned horizontal top and bottom guide-flanges and back-turned opposite ends each back-turned end of the guide-member being provided with sharpened edges for entering woodwork at right angles to the outer face of the guide-member and between said ends the guide-member having a spring-leaf extending parallel with and projecting outwardly between the horizontal top and bottom guide-flanges, of a bracket-member slidably engaging the flanges of the guide member and itself engaged by the said spring leaf.

**1,694,155. BASE-EXCHANGE COMPOUND AND PROCESS OF MAKING IT.** HAROLD JOSEPH WHEATON, Lower Walton, near Warrington, England, assignor, by mesne assignments, to American Doucil Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 3, 1921, Serial No. 512,631, and in Great Britain July 5, 1921. Renewed May 4, 1928. 4 Claims. (Cl. 23—113.)

4. A new base-exchanging compound which is insoluble in water, of great porosity, and absorptive power, and which contains between $Al_2O_3$, $4Na_2O$, $8SiO_2$, and $Al_2O_3$, $6Na_2O$, $14SiO_2$.

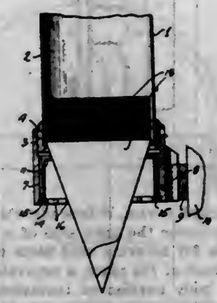
**1,694,156. REFRIGERATING APPARATUS.** ZEBULON WIRT, Omaha, Nebr. Filed Nov. 7, 1923. Serial No. 673,350. 1 Claim. (Cl. 62—116.)

A device of the kind described comprising a generator absorber having an inner container for the refrigerant material, means for heating said inner container, an outer shell, means for circulating water between the inner container and the outer shell, and a rectifier connected with said inner container, a flue for the heater extending



up through the inner container and a connection between the inner container and said flue, said connection being provided with a relief valve.

**1,694,157. CONICAL CUP DISPENSER.** CESARE BARBIERI, New York, N. Y., assignor to The Vortex Mfg. Co., a Corporation of Illinois. Filed May 6, 1926. Serial No. 107,011. 5 Claims. (Cl. 312—48.)

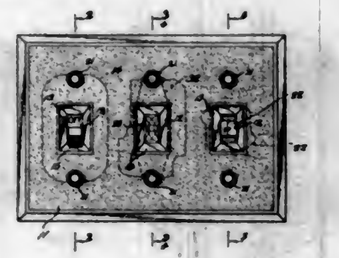


1. A cup dispenser comprising a container for a stack of cups, a support for said container, and a plurality of notched flat cup retaining rings removably positioned within said support with the notches in one ring staggered with respect to those in another ring and affording an arrangement through which the cups are adapted to be withdrawn to insure dispensing of the cups one at a time.

**1,694,158. COMBINATION ELECTRIC WALL FITTING.** TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Aug. 7, 1925. Serial No. 48,912. 8 Claims. (Cl. 177—311.)

1. A finishing or cover plate of a size for a standard multiple gang wall outlet box provided with a plurality of spaced openings each of a size to take a standard tumbler switch lever and each opening have associated with it a

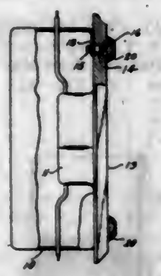
pair of openings for standard fixture securing screws, a plurality of interchangeable electrical devices at the back of the plate having parts fitting the said openings and at least



one of which is other than a switch, and supporting elements for said devices having screw threaded openings to receive securing screws in the screw openings in the plate.

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1,694,159. MOUNTING FOR ELECTRICAL DEVICES. TONJES A. BOTH, Stratford, Conn., assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 24, 1924. Serial No. 701,414. 6 Claims. (Cl. 247—23.)



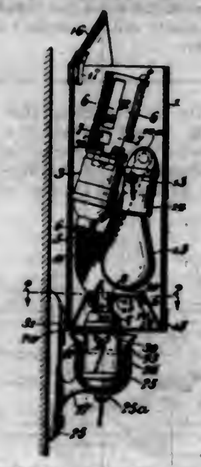
1. In an electrical device, a face plate of insulating material adapted to cover the open side of a wall outlet box, a securing means for securing said plate to a support and exposed at the front of the plate, a separate finishing member including a body portion of insulating material, and means to removably secure said member to said securing means, said body portion being of a size to cover said securing means.

2. In an electrical device, an electrically dead front face plate adapted to cover the open side of a wall outlet box, an electrically conducting securing means for said plate having connection with said box and exposed at the front of the plate, a separate finishing member including a body portion of insulating material, means to removably secure said member to said securing means, said body being of a size to completely cover and insulate said securing means.

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1,694,160. EMERGENCY CONVECTION HEATER. WILLIAM A. BROWN, Philadelphia, Pa. Filed Feb. 16, 1928. Serial No. 254,718. 15 Claims. (Cl. 219—34.)

1. In a quick demountable heating and lighting lamp, a flue, an electric heating unit surrounded by said flue, an electric light bulb mounted in proximity to said flue, a support for said flue, heating unit and bulb, said heating unit and bulb being so assembled and controlled as to give heat or light or both simultaneously or independently, means for attaching said support and its adjuncts to any



existing electric fixture, and said support having means to allow lateral and circular adjustment of said attaching means on said support.

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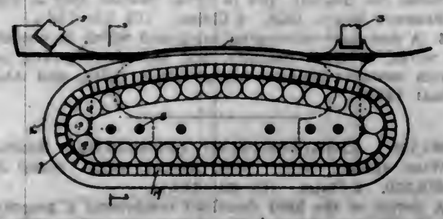
1,694,161. INFANTILE NAPKIN. MAURICE BUDWIG and JOSEPH N. SCHNEIDER, Cleveland, Ohio. Filed Mar. 3, 1926. Serial No. 91,935. 2 Claims. (Cl. 128—284.)



1. An infantile diaper having an inner moisture absorbing pad formed, for example, of cellulose wood fibers and having straight side edges converging toward the central region of the pad and an outer envelope formed of coarse mesh gauze comprising a single piece of fabric of considerably greater length than the pad length, and folded to present an increasing width greater than the pad width, the end portions of said gauze piece being refolded over the pad ends with the fold creases spaced a substantial distance from the end edges of the pad, whereby the pad is limited to the crotch region of the infant and only the gauze portion of the diaper contacts with the stomach, back and hips of the infant when the diaper is applied.

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1,694,162. TRACK-LAYING SKATE. FRANK BUITENKAMP, San Francisco, Calif. Filed Aug. 24, 1926. Serial No. 131,159. 1 Claim. (Cl. 208—178.)



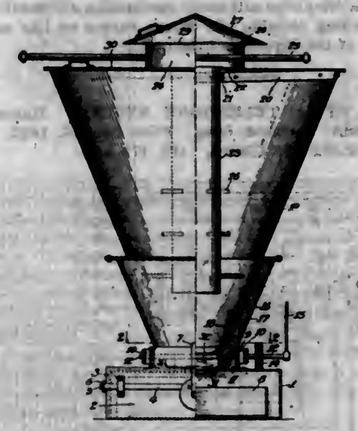
A roller skate comprising a body portion adapted to be attached to the foot of the skater, means for so attaching



the body portion, brackets extending below the body portion, a runway for ball bearings supported by the brackets, which runway is provided with a circuitous path for the ball bearings, ball bearings mounted on the runway in said path, a flat endless band surrounding and engaging the outer sides of the ball bearings so as to be rotatable around the runway in contact with the bearings, a plurality of separate blocks fastened to said band so as to abut one another on their opposed faces on upper and lower runs of the band and a rubber tread member associated with said blocks, which tread member is in endless form and is fastened to the outer ends of said blocks.

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1,694,163. SMOKE BOX. JOHN ELLSWORTH COVEY, Chicago, Ill., assignor to Swift & Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 10, 1928. Serial No. 260,613. 5 Claims. (Cl. 90—2.)



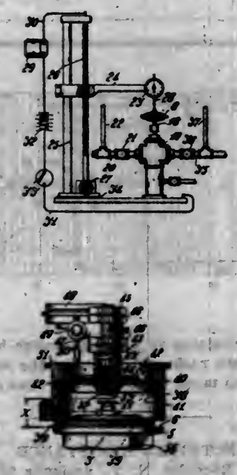
5. A smoke box of the class described, comprising a combustion chamber and a fuel hopper extending upwardly from said combustion chamber and flaring outwardly towards its upper end, a cover for said fuel hopper, a smoke tube rotatably mounted in said hopper and extending from the combustion chamber through said cover, a hood at the outlet end of said smoke tube, fuel agitator arms extending from the side of said smoke tube, and means for rotating said smoke tube.

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1,694,164. METHOD AND APPARATUS FOR SETTING THERMOSTATS. DAVID N. CROSTHWAIT, Jr., Marshalltown, Iowa, assignor to C. A. Dunham Company, Marshalltown, Iowa, a Corporation of Iowa. Original application filed Sept. 30, 1925, Serial No. 59,704. Divided and this application filed Sept. 10, 1927. Serial No. 218,846. 7 Claims. (Cl. 73—151.)

1. The method of adjusting the setting of an expansion thermostat in the member by which it is supported when in service, which consists in first determining the maximum expansion which the thermostat will have under operating conditions, then assembling the thermostat with its supporting member and measuring its opening when contracted, and adjusting the setting to make the opening when contracted equal the previously ascertained expansion.

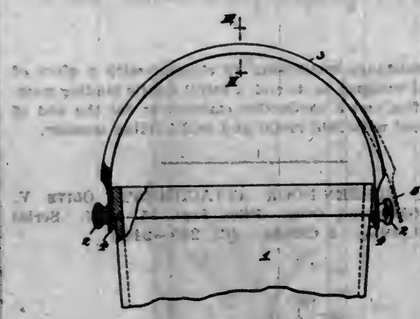
5. An apparatus for measuring the opening of a thermostat in a thermostatic trap, comprising a casing having an open side adapted to receive the assembled thermostat, valve and trap-top, the trap top being engaged by the open end of the casing with the thermostat and valve projecting into the casing, a plunger mounted in the casing in position to be moved into engagement with the valve,



a dial indicator carried by the plunger, and connections between the dial indicator and the casing, whereby the dial indicator will register the movement of the plunger.

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1,694,165. BAIL FOR PAILS AND THE LIKE. ROBERT R. DEBACHER, New York, N. Y. Filed Oct. 14, 1927. Serial No. 226,132. 3 Claims. (Cl. 220—94.)



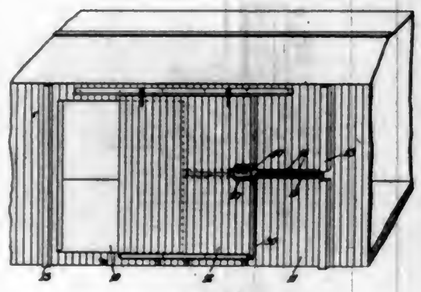
1. An article of the character described having, in transverse cross sectional form, less thickness at its edges than in the portion intermediate its edges, and having a substantially flat surface and flattened end portions, said end portions being of a thickness less than half that of the main body portion, of a width appreciably greater than the width of the main body portion and provided with apertures greater in diameter than the width of said main body portion, the apertures being adapted to engage projections on a receptacle, and the said article being composed of a resilient material such that it will retain itself in engagement with a receptacle by virtue of such resiliency.

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1,694,166. CAR-DOOR-MOVING MECHANISM. WILLIAM W. DOTY, Great Kills, N. Y. Filed Dec. 15, 1921, Serial No. 522,538. Renewed Sept. 27, 1928. 9 Claims. (Cl. 268—44.)

1. In a door operator, the combination with a wall having a door opening, a door mounted over same, a rack set

in the wall with its teeth at right angles thereto, and a pivoted normally vertically depending and bodily movable lever carried by the door, having a nose movable toward



the door to a position to directly engage between two of the teeth of said rack and laterally the said lever being also oscillable to move the door when thus engaged.

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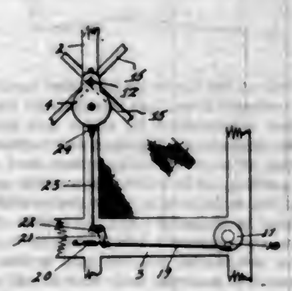
1,694,167. ELECTRICAL RESISTANCE. WILLIAM DUBILIER, New Rochelle, N. Y., assignor to Dubilier Condenser Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 26, 1926. Serial No. 96,098. 4 Claims. (Cl. 201—76.)



1. A resistance comprising an element with a piece of thin metal wrapped on its end, a spiral elastic binding member therefor, and a conductive embedment for the end of said element with said metal and said binding member.

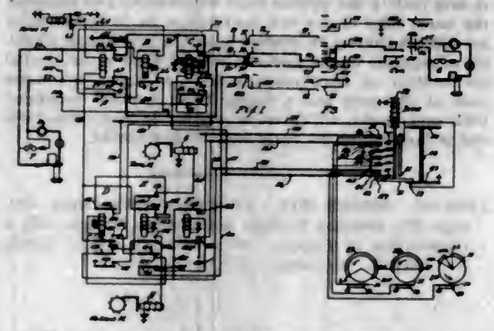
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1,694,168. SCREEN-DOOR ATTACHMENT. OLIVE V. DUSA, Gladstone, Oreg. Filed Sept. 15, 1927. Serial No. 219,719½. 3 Claims. (Cl. 230—244.)



1. The combination in a screen door attachment, of arms having fan like members attached thereto, said arms being attached to a shaft mounted on a case attached to a rigid cross member of the screen door, motor means attached to the case adapted for winding, gear means connecting the motor means with the shaft carrying the arms, and means for the releasing of the gear for one cycle of operation all for the purpose as specified and described.

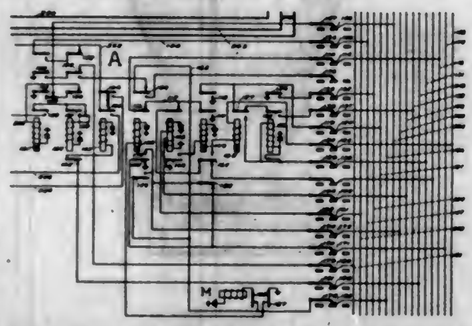
1,694,169. CALL REGISTER FOR TELEPHONE SYSTEMS. HERBERT M. FRIENDLY, Chicago, Ill. Filed Oct. 27, 1920, Serial No. 420,018. Renewed June 25, 1926. 78 Claims. (Cl. 179—9.)



1. In a telephone call meter mechanism automatic means for recording variable toll charge values on like calls, regardless of the duration of the call.

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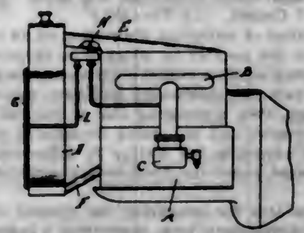
1,694,170. TELEPHONE SYSTEM. HERBERT M. FRIENDLY, Portland, Oreg. Filed Dec. 10, 1921. Serial No. 522,842. 53 Claims. (Cl. 179—9.)



1. In a telephone system, a call meter specific to a calling line, switch mechanism for establishing talking connections, a common means for operating the meter to record the charge for a call, means whereby said common means can only operate one meter at a time, means automatically operative responsive to the completion of recording the charge on said meter for disconnecting said common means from the meter, and means for then connecting said common means with another call meter in lieu of first said meter and for operating last said meter while the first said call continues.

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1,694,171. TEMPERATURE-CONTROLLING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. FREDERICK M. FURBER, Revere, Mass. Filed May 27, 1916. Serial No. 100,411. 3 Claims. (Cl. 123—174.)

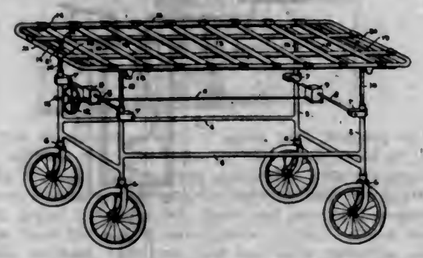


1. The combination of an internal combustion engine, a cooling system therefor including a radiator, means for controlling the flow of air through the radiator, said means comprising a shutter device associated with the radiator, means directly responsive to suction produced in the engine cylinders for holding said shutter device closed until the engine reaches a predetermined temperature, and a thermostatic device for rendering inoperative, the means responsive to suction when the engine reaches a predetermined temperature.



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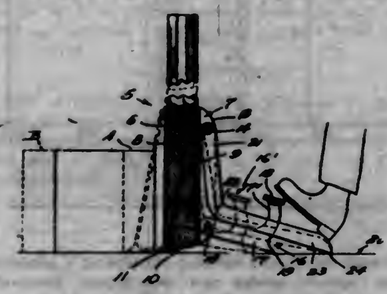
1,694,172. ADJUSTABLE WHEEL STRETCHER. GUSTAVE A. GALLOWITZ, New York, N. Y., assignor to The Kny-Scheerer Corporation of America, New York, N. Y., a Corporation of New York. Filed Apr. 1, 1926. Serial No. 99,080. 1 Claim. (Cl. 296—20.)



In a stretcher the combination of a rectangular frame having four vertical legs, a bicycle wheel rotatably mounted on the lower end of each of said legs, a gear box rigidly secured to the head of each of said legs, a cross shaft running through and between each end pair of gear boxes, a gear box mounted in the middle of each of said cross shafts so that said shafts run therethrough, a longitudinal shaft running through said middle gear boxes having a wheel and handle at one end, vertical rack bars housed in said vertical legs and passing through said leg gear boxes, a subframe mounted on said rack bars and a removable top member mounted on said subframe.

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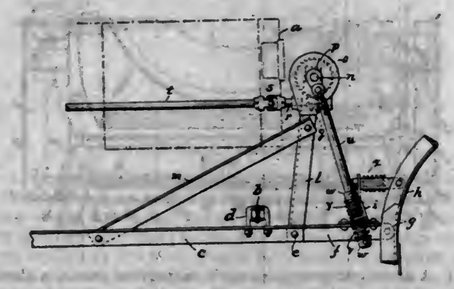
1,694,173. WAREHOUSE TOOL. JOSEPH O. GORANSON, Seattle, Wash. Filed Aug. 11, 1927. Serial No. 212,188. 4 Claims. (Cl. 254—131.)



1. In a tool of the character described, the combination of a lever, of a bifurcated dog fulcrumed to the lever in proximity to its lower end and provided with floor penetrating points rigid with the respective bifurcations of the dog, a tread piece rigid with both of said bifurcations, and a second dog fulcrumed to the lever at an elevation above that of the fulcrum of the first named dog, said second dog extending downwardly from its fulcrum and thence rearwardly through the space between the bifurcations of the first dog and terminating to the rear of the latter in a floor-penetrating point.



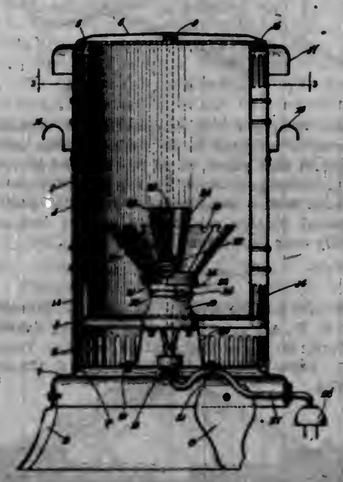
1,694,174. SNOWPLOW. RAYMOND C. GREENWOOD, Kennett Square, Pa., assignor to American Road Machinery Company, Inc., Kennett Square, Pa., a Corporation of Delaware. Filed July 16, 1926. Serial No. 122,839. 2 Claims. (Cl. 37—42.)



1. A main frame for a snow plow comprising two side members, means for connecting the side members to a tractor, an auxiliary frame having two side members pivotally connected at their rear ends to the side members of the main frame, a gusset plate connected to each of the side members of the auxiliary frame, a cross-bar connected to the gusset plates and extending beyond the side bars of the auxiliary frame, said cross-bars having openings therethrough adjacent their ends, means for pivotally connecting a snow plow to the other ends of the side bars of the auxiliary frame, auxiliary frame supporting rods extending through the cross-bars, and means on the main frame for raising and lowering the supporting rods.

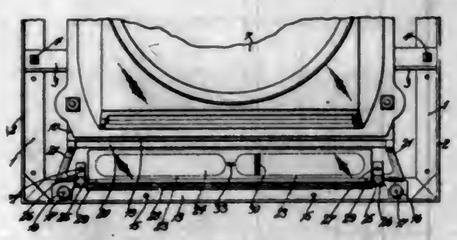
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1,694,175. PORTABLE ELECTRIC HEATER. GEORGE D. HAUSER, Utica, N. Y., assignor to Utica Products, Inc., Utica, N. Y., a Corporation of New York. Filed June 24, 1925. Serial No. 39,229. 5 Claims. (Cl. 126—90.)



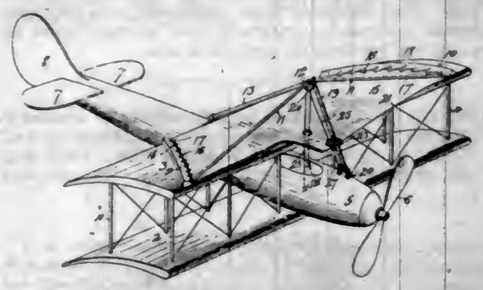
1. A heater comprising a body having an outer lateral wall, an inner lateral wall having a heating space within the same and a perforated top wall, said lateral walls being spaced apart to provide an air space between them, and said body being provided with means for admitting separate bodies of air laterally to the lower parts of said air space and said heating space respectively, and to permit the escape of air from the upper part of said air space, said spaces being closed at the bottoms thereof and open to the atmosphere through said perforated top wall, an upwardly directed reflector within said body adjacent the lower part thereof, and a heating element within said reflector.

1,694,176. STOVE. HERMAN HERRENBRUCK, Belleville, Ill., assignor to Orbon Stove Co., Belleville, Ill., a Corporation of Delaware. Filed June 14, 1928. Serial No. 285,244. 17 Claims. (Cl. 126—67.)



1. A stove comprising an open supporting frame, a stove supported by said frame, a casing enclosing said stove and having a door opening in the front side thereof, and a door controlling the rising of air through said frame at the front of said stove.

1,694,177. AEROPLANE. SIGMUND HORN and MAXIMILIAN ZIPKES, New York, N. Y. Filed Aug. 8, 1927. Serial No. 211,350. 8 Claims. (Cl. 244—12.)



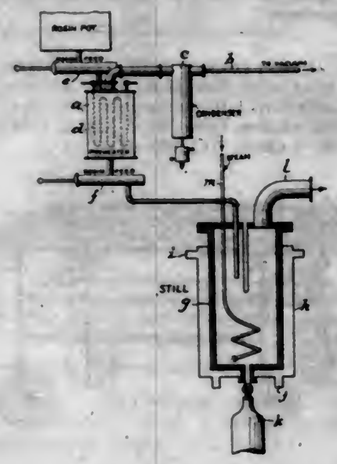
1. In an aeroplane the combination of a plane and a pliable member adapted to be folded closely against the top surface of said plane, or to be extended in position to form an air passage between the top of said plane and said member, said pliable member when in folded position having a central portion adapted to project forwardly and downwardly over the leading edge of said plane.

1,694,178. HEATING UNIT. WALTER E. HUDSON, Amagansett, N. Y., assignor to Hudson Heating Systems, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 5, 1924. Serial No. 697,030. 5 Claims. (Cl. 201—67.)



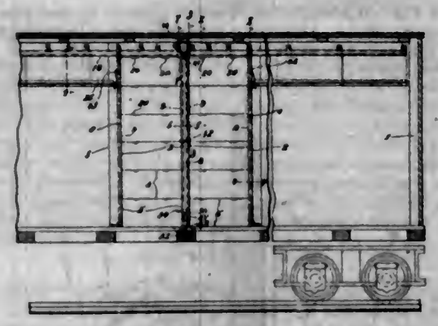
4. An electric heating unit comprising, in combination, a tube of refractory material, end caps for said tube of considerably larger exterior diameter than said tube and provided with radial passageways connecting with the interior of said tube, a coil of high resistance wire wound on said tube, and a protecting shell of refractory material enveloping said coil, said shell being of less exterior diameter than said caps.

1,694,179. PROCESS OF REFINING WOOD ROSIN. GEORGE E. JENKS, Bacchus, Utah, assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 15, 1923. Serial No. 639,064. 3 Claims. (Cl. 203—4.)



1. The process of refining wood rosin which comprises vaporizing the same under a high vacuum by the concurrent action of two heating media one of which is exteriorly applied and the other of which is superheated steam injected into the body of the rosin, and condensing a portion of the distillate at a temperature not less than about 350° F.

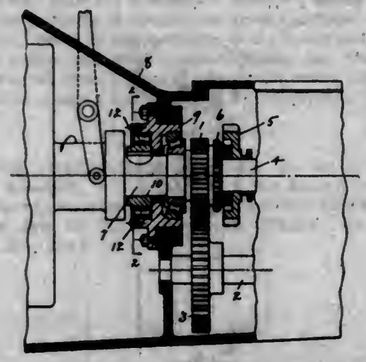
1,694,180. GRAIN DOOR FOR BOX CARS. NOAH JOHNSON and LOUIS H. STRASSER, St. Louis, Mo. Filed July 14, 1927. Serial No. 205,616. 1 Claim. (Cl. 20—34.)



A closure for a door opening comprising a plurality of sections, upright guides and longitudinal substantially horizontal supporting ways extending across the top of the door opening and to one side thereof, whereby the sections may be arranged in vertical series to close the door opening and supported in longitudinal arrangement at the sides of the door opening, the sections having hooks for engaging the supporting ways, there being a plurality of hooks on each section, the corresponding hooks on each section forming a plurality of series, the longitudinal ways having slots to correspond to and pass each series of hooks, the hooks in each series being differently arranged from the hooks of the other series whereby the hooks of each series are enabled to bridge and be supported across the slots corresponding to the other series.



1,694,181. BRAKING DEVICE FOR VEHICLES. ABRAHAM I. KAPLON, Brunswick, Md. Filed Dec. 9, 1926. Serial No. 153,707. 3 Claims. (Cl. 192—4.)



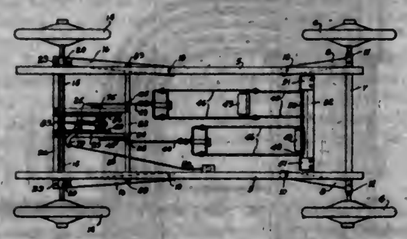
3. The combination with a speed gear housing of a shaft adapted to be connected to the drive wheel of the vehicle, a clutch shaft having connection with the source of power changing speed gearing between said two shafts, a disk keyed to the clutch shaft and having a number of cam faces thereon, a collar bolted to the housing, and a roller between each cam face and said collar to prevent backward movement of the car when in forward gear.

1,694,182. METHOD OF REMOVING SHELLS FROM NUTS. JOHN F. KOHLER, Larchmont Manor, N. Y. Filed Nov. 5, 1925. Serial No. 67,004. 3 Claims. (Cl. 146—219.)



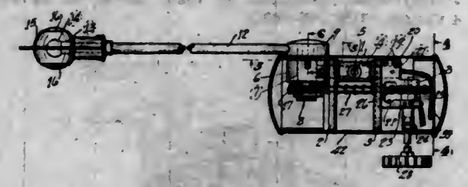
1. The method of shelling a nut which consists of cutting or sawing a plurality of lines around the nut, said cuts being made in planes parallel with the axis of the nut and in removing the separate sections freed by the lines of cutting.

1,694,183. JUVENILE VEHICLE. HERMAN L. KRAFFT, Cleveland, Ohio, assignor to Murray Ohio Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 8, 1927. Serial No. 159,794. 30 Claims. (Cl. 208—34.)



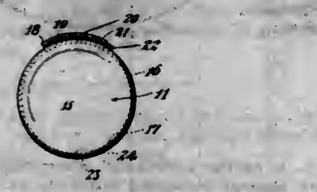
1. A child's vehicle comprising a frame, front and rear wheels therefor, two of the wheels having a resilient floating connection with the frame, driving mechanism for one of the floating wheels comprising a crank shaft operatively connected to such wheel and having a resilient floating connection with the frame and pedal lever mechanism with connections for rotating the shaft.

1,694,184. AUTOMOBILE TRAFFIC SIGNAL. WILLIAM J. KRAMER, St. Louis, Mo. Filed June 6, 1927. Serial No. 196,836. 3 Claims. (Cl. 116—51.)



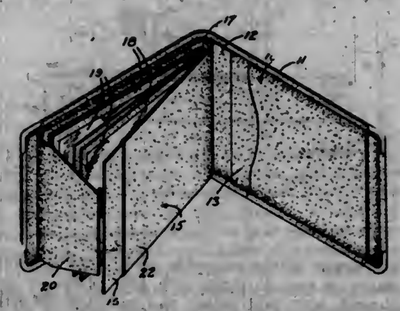
1. In an automobile signaling attachment, a bored block, a head having an end face in opposed relation to an end face of the block and having a reduced extension fitting for rotatory movement in the bore of the block, a signaling arm carried by the head, means for selectively effecting rotary actuations of the head, and co-operating means on the opposed end faces of the head and block for yieldingly retaining the head in rotarily actuated positions.

1,694,185. VANITY CASE. HARRY LEBERMAN, New York, N. Y., assignor to Groove Lock Co. Inc., New York, N. Y., a Corporation of New York. Filed Nov. 17, 1927. Serial No. 233,777. 3 Claims (Cl. 220—31.)



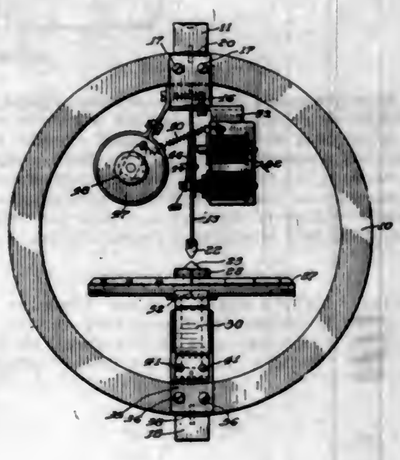
3. In a vanity case or the like, a pair of substantially circular case sections having opposed open sides, one of said case sections having a circumferential flange adapted to fit within the other section, said flange being provided with a bayonet slot, and the other case section being provided with an inwardly extending pin to engage in said slot, hinge lugs carried by the case sections in diametrically opposed relation to said slot and pin, and a curved hinge pintle connecting said case sections through the hinge lugs, said hinge pintle permitting relative rotation of the case sections about their common axes and being yieldable to permit opening and closing of the case.

1,694,186. COMBINATION BILL FOLD AND PASS CASE. CHARLES L'ENFANT, New York, N. Y. Filed Feb. 24, 1927. Serial No. 170,470. 8 Claims. (Cl. 150—35.)



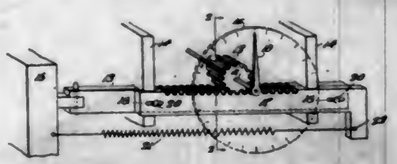
1. In combination with a bill fold having a pair of opposed sections, a pass case removably secured therein to one of the sections, and means carried by the pass case for engaging the other section to hold the bill fold in closed position about the pass case.

1,694,187. TESTING INSTRUMENT. ROBERT B. LEWIS, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 20, 1926. Serial No. 89,780. 4 Claims. (Cl. 265—63.)



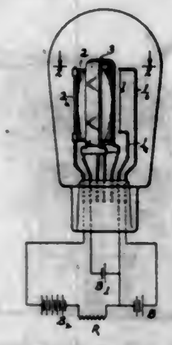
1. A testing instrument comprising a ring, a vibratory element suspended internally of said ring, an adjustable contact mounted in said ring opposite to and aligned with said element, and electrically operated means for vibrating said element whereby touching of said element by said contact is audible and indicates a distortion of said ring proportional to the amount of the external force.

1,694,188. MECHANISM FOR PREVENTING LOST MOTION. ROBERT B. LEWIS, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 26, 1928. Serial No. 249,577. 2 Claims. (Cl. 74—27.)



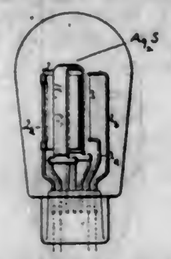
1. In a device of the character stated, the combination of a pinion, a rack in mesh with said pinion, a second rack in mesh with said pinion and mounted for relative movement with respect to said first rack, guides for respectively supporting said racks, a bar connected to one end of said first rack, and a spring stretched between said bar and said second rack whereby lost motion between said pinion and racks is prevented.

1,694,189. PHOTOSENSITIVE CELL. SAMUEL RUBEN, New York, N. Y. Filed Dec. 6, 1927. Serial No. 238,217. 10 Claims. (Cl. 250—27.5.)



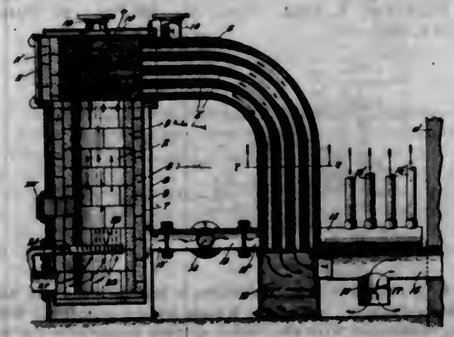
10. In an electrical discharge tube, a cathode, an anode and a control element consisting of cuprous oxide.

1,694,190. PHOTO-ELECTRIC CELL. SAMUEL RUBEN, New York, N. Y. Continuation of application Serial No. 238,217, filed Dec. 6, 1927. This application filed Oct. 18, 1928. Serial No. 313,369. 4 Claims. (Cl. 250—27.5.)



4. In a photo-electric cell a control element comprising a metal body having formed on its surface a photo-sensitive compound of the oxygen series of the sixth periodic group.

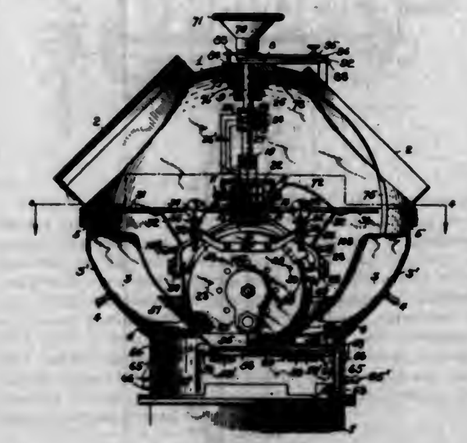
1,694,191. HEATING APPARATUS. WILLIAM H. SOMMER, Peoria, Ill. Filed Apr. 10, 1926. Serial No. 101,130. 6 Claims. (Cl. 122—1.)



6. In a hot-water heating apparatus, a vertical boiler having a combustion chamber and a water jacket, a water-containing flue chamber connected to the top of the boiler and extending horizontally therefrom and being curved downwardly and terminating in spaced relation to the boiler to one side thereof, flues in the flue chamber communicating with the combustion chamber, means to conduct the products of combustion from the lower ends of the flues, means to supply water to the lower ends of the water jacket and flue chamber, means for conducting heated water from the upper ends of the water jacket and flue chamber and a fuel burner in the combustion chamber.



1,694,192. GYROSCOPIC COMPASS. ELMER A. SPERRY, Jr., Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 22, 1920. Serial No. 353,212. 22 Claims. (Cl. 33—226.)



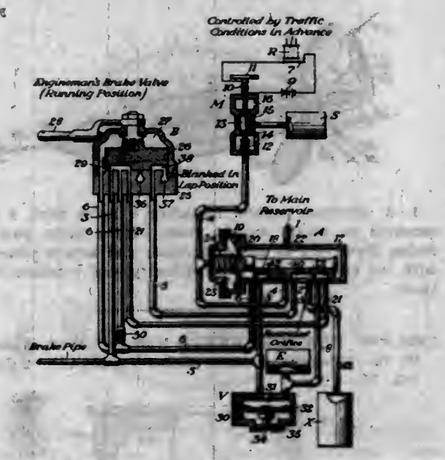
2. In gyroscopic apparatus, the combination with a gyroscope of a jet thereon adapted to discharge a fluid for exerting a torque on the gyroscope, a member positioned adjacent the jet for varying the torque exerted thereby, and means for adjusting said member in either of a plurality of planes with respect to said jet.

5. In a gyroscopic apparatus, the combination with a gyro rotor and a journal casing therefor, of a frame in which said casing is mounted for oscillation about a horizontal axis, a locking sleeve adapted to engage with said casing to centralize the casing about said axis, and means including a rotatable member for moving said sleeve to locking position.

22. In gyroscopic apparatus, a gyroscope pivoted for movement about axes at right angles to each other, there being indicating means on the gyroscope for showing the direction in which precession will occur about one axis when torque is applied in a certain direction about the other axis.

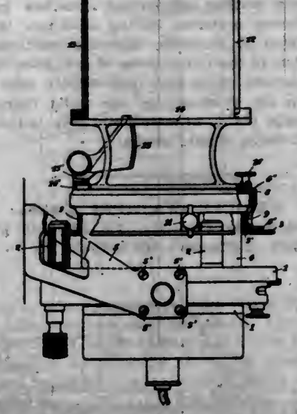
1,694,193. FLUID-PRESSURE BRAKING APPARATUS. CLARENCE W. SPROULL, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 9, 1926. Serial No. 140,451. 6 Claims. (Cl. 303—18.)

3. In combination with automatic fluid pressure braking apparatus comprising an equalizing reservoir normally charged with fluid pressure, to approximately 70 pounds per square inch, an automatic brake application valve, and



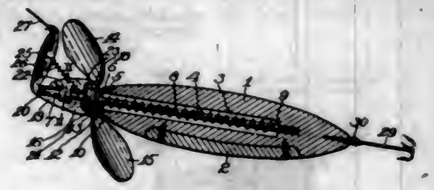

means controlled by said valve for at times reducing the pressure in said reservoir to approximately 55 pounds in at least 25 seconds.

1,694,194. COMPASS. EUGÈNE VION, Paris, France. Filed June 17, 1927, Serial No. 199,488, and in France Jan. 28, 1927. 3 Claims. (Cl. 33—222.)



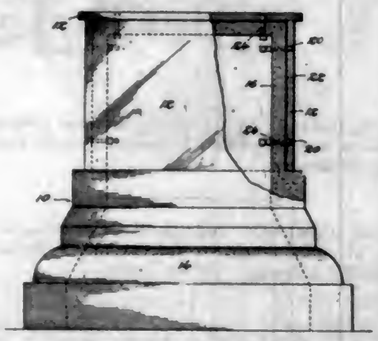
1. A compass comprising, in combination, a binnacle, a collar on said binnacle, a compass bowl mounted within said collar, and rotatable with regard to said collar, about the geometrical axis of the compass, a covering ring on said bowl, a frame mounted on said covering ring and provided with standards, an alidade mounted on said frame, a reflecting and magnifying member mounted on said bowl and between said standards, means for attaching said frame to said covering ring, and a locking member by which the said bowl, the reflecting and magnifying member and the alidade are rendered immovable with regard to said collar.

1,694,195. VARIABLE DIRECTION CONTROL FOR TRAILING OBJECTS. THOMAS L. WATTS, Indianapolis, Ind. Filed Jan. 25, 1928. Serial No. 249,443. 14 Claims. (Cl. 43—46.)



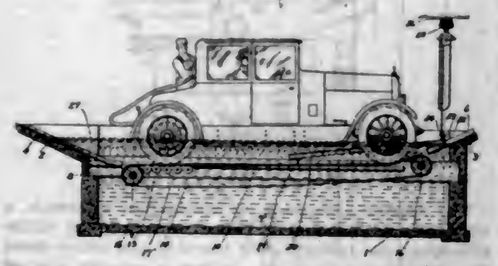
1. A direction control including a main part, a blade mounted to rotate on the front of the main part and facing forwardly at an inclination, and means associated with the main part to intermittently stop rotation of the blade.

1,694,196. GRAVE MARKER. HARRY C. WAY, Wheeling, W. Va. Filed Oct. 6, 1927. Serial No. 224,404. 2 Claims. (Cl. 72—7.2.)



1. A grave marker comprising a hollow base member of cementitious material having openings in the walls thereof, plates of frangible material positioned in overlying relation to the outer faces of said base member, and fastening devices extending from within said base member through the openings in the walls thereof and anchored to said plates at points entirely within the plane of the outer faces of said plates.

1,694,197. VEHICLE WASHING TANK. MINER D. WOODLING, Kansas City, Mo. Filed Oct. 10, 1923. Serial No. 667,636. 2 Claims. (Cl. 141—1.)
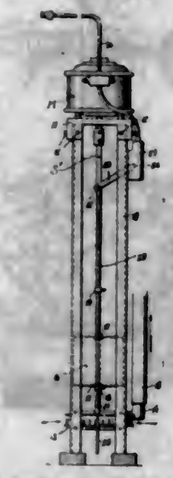


1. A car washing apparatus comprising a tank, means for guiding a motor vehicle into the tank, channeled rails forming a trackway supported by the tank above the bottom thereof with the channels facing upwardly, endless belts having their upper laps traveling in the channels in the rails, idlers at one end of the tank on which the upper laps of the belts rest, and a vehicle-lifting mechanism at the opposite end of the tank.

1,694,198. AUTOMOBILE FENDER GUARD. GEORGE W. YANSS, Bridgeport, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed Sept. 15, 1925. Serial No. 56,416. 6 Claims. (Cl. 293—55.)



1. An automobile fender-guard comprising as elements a pair of main impact bars superimposed in vertical relation; a support for said impact bars comprising a bracket adapted to be attached to an automobile and having connecting means for the inner ends of said impact bars, and also having an extension part provided with connecting means for the outer ends of said impact bars; said bracket being adapted to support also an auxiliary impact bar.

1,694,199. CELLAR DRAINER. HARRY GROSS, Brooklyn, N. Y. Filed Oct. 29, 1927. Serial No. 229,783. 4 Claims. (Cl. 103—26.)



1. A pumping device comprising a pump mounted in a frame, an electric motor connected to the said pump and adapted to operate the same, a snap switch having a spring and adapted to control the said motor, a switch rod connected to the said snap switch and adapted to operate the same, and a vertically movable float slidable with respect to said switch rod and adapted to operate the said switch rod at pre-determined points of the vertical movement of the said float, said float being located in said frame and slidable therein.

1,694,200. TOOTHPICK HOLDER. THOMAS BARTHOLOMEW, Columbus, Ohio. Filed Sept. 17, 1926. Serial No. 136,055. 3 Claims. (Cl. 312—77.)

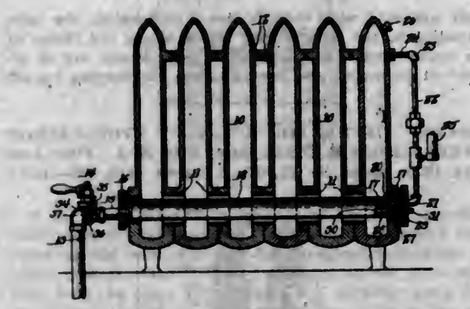


1. A holder for toothpicks or similar articles consisting of a pick supporting member and a gravity actuated pick



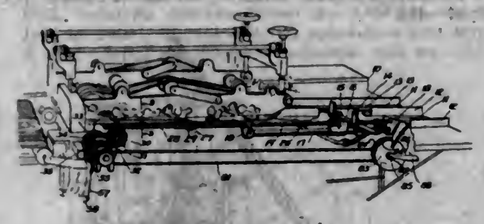
confining member having a sliding cover and telescoping on the supporting member, said cover cooperating with the confining member to form an opening at the top for the removal of the picks and means limiting the upward movement but permitting removal of the confining member as respects the supporting member.

1,694,201. CONVERTIBLE STEAM AND HOT-WATER RADIATOR. LOUIS G. BOSTEDO, Oak Park, Ill. Filed Aug. 15, 1927. Serial No. 212,856. 4 Claims. (Cl. 237—72.)



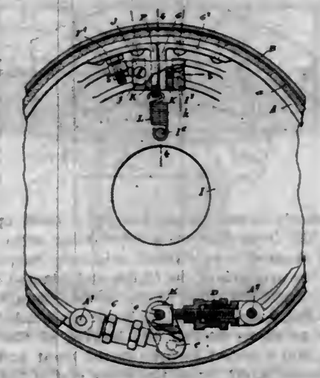
1. In a radiator of the type described, the combination with a plurality of vertical hollow sections having communicating openings in their lower portions, of bushings mounted in the outer openings of the end sections, a condenser pipe extending through the intermediate openings with clearance and telescopically engaged at its ends with said bushings to accommodate endwise expansion of said pipe, a steam by-pass pipe between said condenser pipe and the upper portion of one of said sections, a steam supply pipe communicating with said condenser pipe through one of said bushings, and means for draining the radiator through said condenser pipe.

1,694,202. INTERMITTENT FEEDING DEVICE. EDWARD M. BRACKETT and FRED M. BRACKETT, Topeka, Kans. Filed May 20, 1926. Serial No. 110,579. 17 Claims. (Cl. 74—4.)



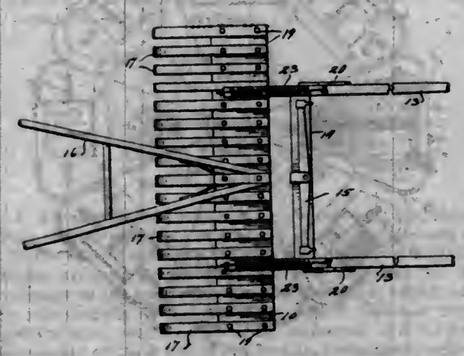
1. In a device of the character described, a rotatable member for moving a reciprocable member in one direction, means for intermittently rotating said rotatable member, comprising a constantly rotating member, a clutch device adapted to connect said constantly rotating member with said rotatable member, means actuating said clutch to connect said rotatable member with said constantly rotating member, means actuating said clutch to disconnect said members and means for adjusting said first mentioned actuating means to vary the interval between the actuations of said clutch to connect said rotatable member with the constantly rotating member.

1,694,203. BRAKE MECHANISM. FRANÇOIS BRAULT and ANDRÉ CORDIER, Levallois-Perret, France. Filed Oct. 12, 1927, Serial No. 225,773, and in France Oct. 13, 1926. 3 Claims. (Cl. 188—78.)



3. In brake mechanism of the type described, a construction including a hollow drum, a circular split band, means for separating the ends of the band, a flexible projection at the middle of the band and fixed means co-operating with the flexible projection to restrain its movement in either direction substantially as and for the purposes set forth.

1,694,204. CROSS-ROW COTTON BLOCKER. SAMUEL FONTAINE BROWN, Heth, Ark. Filed Oct. 29, 1927. Serial No. 229,722. 1 Claim. (Cl. 97—23.)

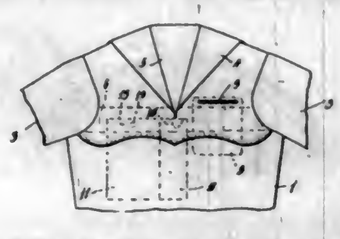


A cross row cotton chopper of the character described including thills, runners mounted upon the thills and extending downward and rearward therefrom and upward above the thills, a transversely extending beam hinged to the thills for movement in a vertical plane and having upwardly and rearwardly extending handles, downwardly, rearwardly and forwardly extending teeth detachably mounted upon the beam and adapted to carry plow points at their lower ends, and contractile springs connected to the rear edge of said beam and operatively mounted at their forward ends upon the ends of the runners which extend above the thills and exerting a lifting force upon the beam.

1,694,205. WEED KILLER AND METHOD OF KILLING WEEDS. RALPH N. CHIPMAN, Plainfield, N. J. Filed Apr. 15, 1926. Serial No. 102,312. 10 Claims. (Cl. 167—45.)

6. A non-poisonous herbicide comprised essentially of both calcium chlorate and calcium chloride.

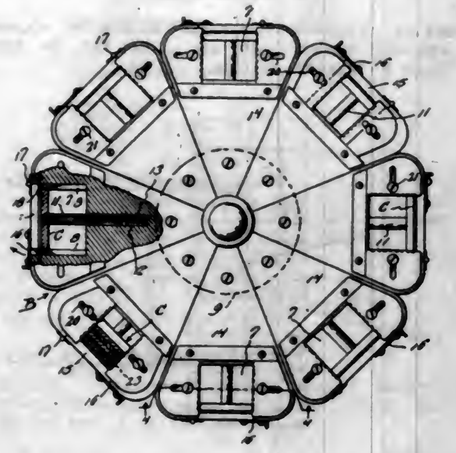
1,694,206. SAILOR'S DRESS BLOUSE. WELLINGTON I. CLEMENTS, Norfolk, Va. Filed Feb. 1, 1928. Serial No. 251,140. 2 Claims. (Cl. 2—122.)



2. A sailor's dress blouse having a head opening V-shaped at the front thereof, a reenforcing strip extending across and secured to said front, said strip having its ends secured to the arm pits of the blouse and adapted to prevent the stretching of the front of the blouse, the strip extending across the lower end of the V-shaped head opening of the blouse so as to prevent the tearing of the blouse at this point, and a pocket secured to the front and reenforcing strip immediately below the lower end of the V-shaped head opening and adapted to assist the strip in preventing the tearing of the blouse at this point.

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1,694,207. DISPLAY RACK. BERT COLEMAN, Plattsmouth, Nebr. Filed Mar. 3, 1928. Serial No. 258,801. 2 Claims. (Cl. 211—163.)

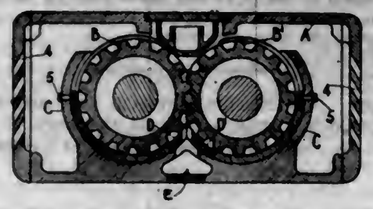


1. In a display rack, a frame member having an open-bottomed compartment, a presser member carried by the frame member and slidably mounted in said compartment for cooperation with the front wall of the latter to hold articles in suspension, spring means acting against said presser member for urging it toward said front wall of the compartment, means to adjust the effective width of said compartment embodying laterally adjustable slides mounted on the frame member at opposite sides of said compartment.

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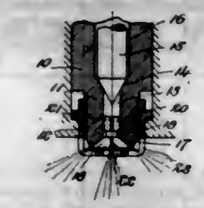
1,694,208. ROTARY ENGINE AND THE LIKE. ALBERT WILLIAM DAVIES, Glasgow, Scotland, assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Filed June 28, 1926, Serial No. 119,203, and in Great Britain Sept. 30, 1925. 10 Claims. (Cl. 121—70.)

1. A peripheral admission rotary engine comprising a casing, an inlet, coresponding drums, the casing having two barrier surfaces, one for each drum, each drum having blades extending from end to end and thus through an intermediate region, intermediate between the ends of a drum, the blades having helical portions directed reversely from the intermediate region, the drums being correspondingly arranged with their blades intermeshing, the inlet extending to the intermediate region where the blades of the drums present surfaces which peripherally are of cylindrical character, and having means for varying cut-off.



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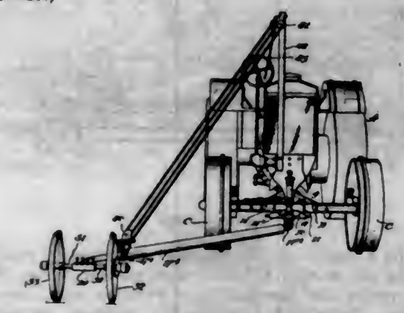
1,694,209. DEVICE FOR SPRAYING HYDROCARBON FUEL. HARRY E. DAVIS, Jersey City, N. J. Filed June 18, 1925. Serial No. 37,967. 5 Claims. (Cl. 299—141.)



1. In a device for spraying hydrocarbon fuel, a tubular member, an imperforate plug loosely seated against one end of the member across the bore thereof, one of the abutting surfaces of the member and plug having grooves coacting with the other surface to provide fuel delivery passages extending from the bore of said member to the exterior of both the member and plug, and a cage cap connected to the member and operating against the outer end of the plug to press the latter against its seat, said cage cap having an opening therein through which a tool is engageable with the plug to move the latter and effect grinding of the contacting surfaces of the plug and member.

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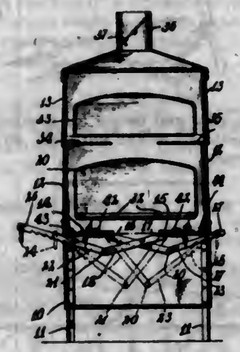
1,694,210. TRACTOR GUIDE. CHARLES E. EVERETT, Longford, Kans., assignor, by mesne assignments, to J. I. Case Plow Works, Inc., a Corporation of Maryland. Filed Aug. 27, 1926. Serial No. 131,931. 3 Claims. (Cl. 97—49.)



1. A tractor guide comprising a guiding element adapted to follow a previously formed trench, an arm connected to said element, an oscillatory member to which said arm is connected, a support for mounting said member on a tractor, means for connecting said oscillatory member to the spindles of the front wheels of the tractor, and means for yieldingly connecting the spindles of the front wheels of the tractor to the steering means of the tractor.



1,694,211. OVEN. EUGENIO FERNANDEZ, Valparaiso, Chile. Filed Nov. 26, 1927. Serial No. 235,821. 2 Claims. (Cl. 126—155.)



1. In combination with an oven of the class described, plate members horizontally extended from opposite inner sides of the oven, and forming an opening between the edges thereof, rods rotatively mounted on the plate members near the edges forming the said opening, grate bars pivotally attached at one of their extremities to the said rods, and directed towards each other and alternately positioned, other rods attached to the free ends or the grate bars, and rods formed with a plurality of notches, attached to the said second mentioned rods, and adapted for extending thru apertures in the sides of the said oven, and arranged for permitting the said notches to engage the edges of the apertures for holding the rods in various extended positions, so as to hold the grate bars in various inclined positions.

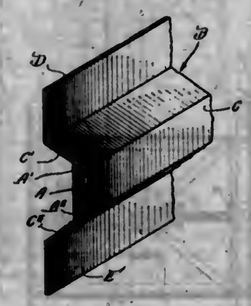
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1,694,212. EXPANSION JOINT. ALBERT C. FISCHER, Chicago, Ill. Filed Oct. 16, 1925. Serial No. 62,907. 8 Claims. (Cl. 94—18.)

6. Preformed constructional material including ductile waterproofing binder having corn husks of relatively large surface areas incorporated therein, the binder being in excess of 50 per cent.

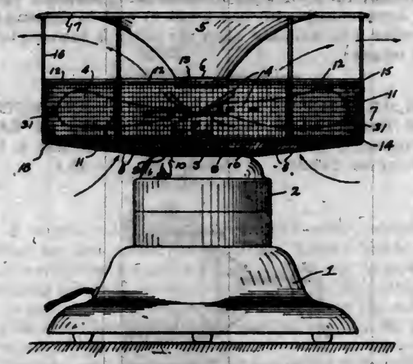
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1,694,213. COMBINED EXPANSION AND CONTRACTION JOINT—SEMIHEXAGONAL TYPE. ALBERT C. FISCHER, Chicago, Ill. Original application filed Jan. 3, 1922, Serial No. 526,742, Patent No. 1,655,835, dated Jan. 10, 1928. Divided and this application filed May 9, 1927. Serial No. 190,083. 10 Claims. (Cl. 94—18.)



1. A contraction joint having a semi-hexagonal center with flanges extending therefrom, the center face of which is covered with an expansion joint strip and adapted to cooperate therewith.

1,694,214. PORTABLE FAN. WILLIAM H. GINDER, Haddonfield, N. J., assignor, by mesne assignments, to Electro Manufacturing Company of America. Filed Aug. 25, 1927. Serial No. 215,435. 2 Claims. (Cl. 230—274.)



2. A portable fan including a motor base, a propeller driven thereby to rotate in a horizontal plane, a truncated conical air deflector supported from the base with its axis concentric to the motor and having a curved surface varying uniformly from a maximum curvature at the vertex to a minimum at the base and discharging the air horizontally, and a perforated tubular housing supported in lateral alignment with the propeller and having its upper edge so disposed with relation to the under surface of the cone as to lie in a plane below the emergent stream of air deflected by the cone.

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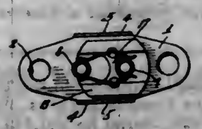
1,694,215. SLED RUNNER FOR AUTOMOBILES. BOLESLAW GOLEMBIEWSKI, Utica, N. Y. Filed Feb. 1, 1928. Serial No. 250,966. 4 Claims. (Cl. 280—13.)



1. A sled runner attachment for automobiles, comprising front shoe members for attachment on the front wheels of a motor vehicle, and provided with rear projecting brackets having arc-shaped apertures, rear shoe members for attachment on the rear axle housing of the motor vehicle and for receiving the rear wheels of the vehicle, trains of intermediate shoe members pivotally connected for vertical movements on the fronts of the rear shoe members brackets pivotally connected for vertical movements on the fronts of the said trains of intermediate shoe members, and bolts connected on the brackets and engaging in the said arc-shaped apertures for permitting lateral movements of the front shoe members relative to the trains of intermediate members for steering purposes.

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1,694,216. ELECTRIC SWITCH. JAMES J. GOUGH, Chicago, Ill., assignor to Chicago Electric Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed June 27, 1927. Serial No. 201,715. 17 Claims. (Cl. 200—163.)

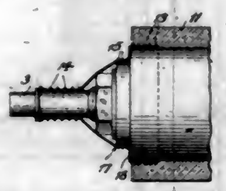


1. An electric switch comprising a base, a pair of spaced and relatively insulated terminals mounted thereon, a stop

member disposed between the terminals and slidable with respect to the base into engagement with one or the other terminal, a pair of switching members fast on the stop member and extending respectively at opposite sides of both terminals; the switching members being disposed to contact continuously with one terminal and to contact with the other terminal only when the latter is engaged by the stop member.

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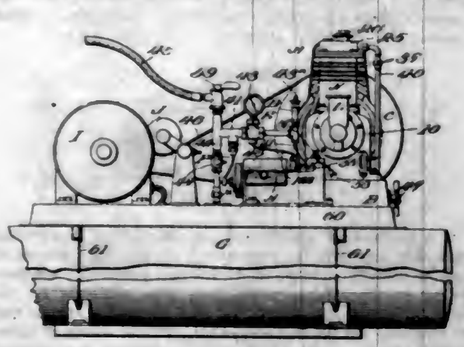
1,694,217. PRINTER'S INKING ROLLER AND METHOD OF PROTECTING JOURNAL SUPPORTS OF SAME. WILLIAM C. HART, New York, N. Y. Filed May 6, 1927. Serial No. 189,217. 7 Claims. (Cl. 18—48.)



6. The method of protecting the journal supports of printer's inking rollers during the period of applying the inking composition surfacing material which consists in initially securing to the ends of the drum and to the journal supports a covering of moisture resisting material before the application of the composition to the drum.

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1,694,218. AIR-COMPRESSING MECHANISM. GEORGE EDGAR HAZARD, Rochester, N. Y., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Filed June 11, 1924. Serial No. 719,310. 14 Claims. (Cl. 230—211.)



1. A compressor mechanism, comprising a compressor having low and high pressure cylinders, an intercooler connecting said cylinders, a fly wheel having fan blades, a housing between said fly wheel and said cylinders, and the intercooler mounted in said housing, for the purpose described.

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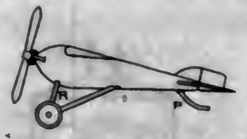
1,694,219. MOTHPROOFING SUBSTANCE AND METHOD OF PREPARING IT. LLOYD E. JACKSON and HELEN E. WASSELL, Pittsburgh, Pa., assignors to Mundatechnical Products Company, Detroit, Mich., a Corporation of Delaware. Filed Nov. 18, 1927. Serial No. 234,290. 9 Claims. (Cl. 167—6.)

7. An insectifuge containing a mixture of a quinoidine salt with a soap.

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1,694,220. REVERSING-PROPELLER THROTTLE CONTROL. CHARLES FRANCIS JENKINS, Washington, D. C. Filed July 23, 1927. Serial No. 207,949. 4 Claims. (Cl. 244—25.)

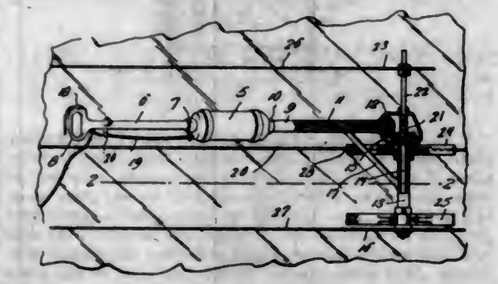
1. The combination, in an airplane, of a motor therein, a throttle for controlling said motor, a propeller driven by said motor, reversing gear for said propeller, a lever for controlling the reversing gear, means for connecting said throttle and reversing-gear lever to insure simultaneous



operation of the two, and means for preventing operation of said last mentioned means until the airplane engages the landing surface.

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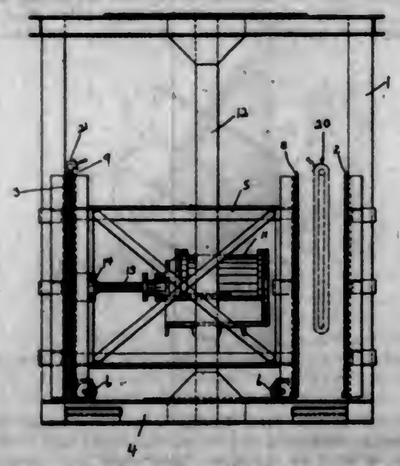
1,694,221. ICE SAW. DEE M. KING, Canton, Tex. Filed May 21, 1927. Serial No. 193,161. 7 Claims. (Cl. 262—7.)



1. An ice sawing implement including a motor having a casing, a handle having a shank attached to one end of said motor casing, a tubular shaft housing attached at one end to the other end of said motor casing, a gear casing attached to the other end of the shaft housing, a drive shaft for the motor journaled in said housing and projecting into said gear casing, a further tubular shaft housing attached at one end to and extending laterally from one side of said gear casing, a driven shaft journaled in said further shaft housing and projecting into said gear casing, gearing operatively connecting adjacent ends of the shafts within said gear casing, a circular saw fixed on the outer end of the said driven shaft, and a diagonal brace between said shaft housings.

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1,694,222. INNER-TUBE DEFLATOR. PAUL W. LEHMAN, Milwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 5, 1926. Serial No. 127,468. 1 Claim. (Cl. 154—9.)



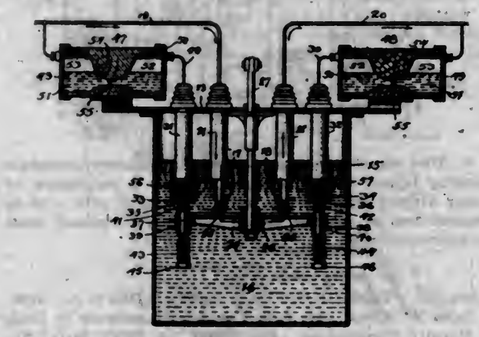
A device for deflating inner tubes which comprises two



stationary platens, a platen secured to each end of the carriage adapted to co-operate with the adjacent fixed platen, all of said platens being supported so as to leave at least one side and the top edges thereof free for the admittance and ejection of a plurality of inner tubes having their valve stems above the upper edges of the platens, and means to reciprocate the carriage.

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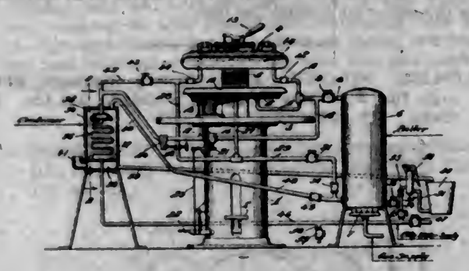
1,694,223. ELECTRIC SWITCH. GEORGE N. LEMMON, Marietta, Ga., assignor to Bait Manufacturing Co., Atlanta, Ga., a Corporation of Georgia. Filed June 19, 1923. Serial No. 646,387. 5 Claims. (Cl. 175—294.)



1. Circuit interrupting means comprising a main switch and an auxiliary switch, a secondary path for the current controlled only by the auxiliary switch, a vaporizable liquid in series with the auxiliary switch in the secondary path and adapted to be vaporized by the flow of current therethrough on the opening of the main switch and to interpose a resistance vapor in the secondary path, and means for automatically opening the auxiliary switch when the current flow is reduced by the vapor resistance.

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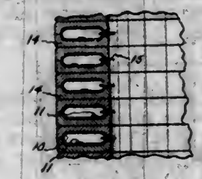
1,694,224. CLOTHES-PRESSING MACHINE AND THE LIKE. JACOB LEPLER, Providence, R. I. Filed Nov. 23, 1927. Serial No. 235,162. 3 Claims. (Cl. 68—9.)



1. A clothes pressing apparatus comprising a buck, a pressing head, a boiler, means for supplying steam from the boiler to the buck and pressing head, a steam suction pipe from the boiler connected with the buck, a condenser comprising a water chamber for condensing the steam from the suction pipe and utilizing the heat of condensation for heating water in the water chamber, means connecting the water chamber with the boiler for supplying heated water to the boiler, and means for applying pressure to the water chamber for forcing heated water therefrom to the boiler.

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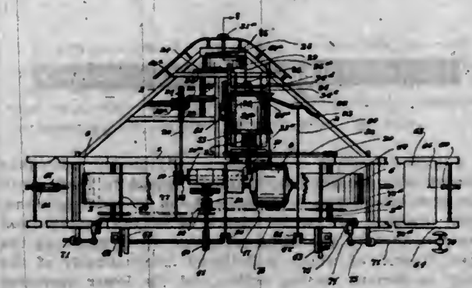
1,694,225. METHOD OF INSERTING VALVES IN ANNULAR TUBES. CHARLES EDGAR MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 30, 1926. Serial No. 132,362. 3 Claims. (Cl. 154—14.)



1. A method of making rubber tubes which comprises forming an open-ended tube, placing loosely inside the tube a portion of a valve adapted to form one member of a clamping means for sealing the valve in the tire, said portion being of insufficient weight to penetrate the rubber stock substantially during vulcanization, splicing the ends of the tube, vulcanizing the tube, inserting a valve stem into the tube, and affixing the first-mentioned valve portion to the valve stem.

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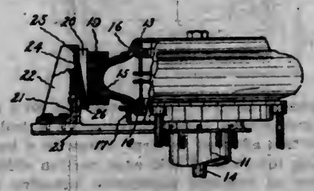
1,694,226. TRACTOR. ANDREW MCDOWALL, Castle Douglas, Scotland. Filed Dec. 31, 1923, Serial No. 683,807, and in Great Britain Jan. 26, 1923. 10 Claims. (Cl. 180—17.)



1. A tractor comprising a chassis, wheels supporting same, a motor carried by the chassis and arranged to drive said wheels, a drum mounted on a horizontal axis and capable of axial displacement, means to move the tractor in a lateral direction, and means to displace said drum in an axial direction and arranged to act in unison with the lateral displacement of the tractor.

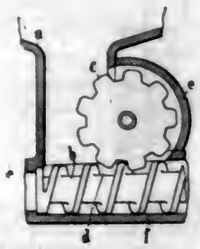
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1,694,227. SPLICE HOLDING DEVICE FOR TIRE EXPANDERS. THOMAS MIDGLEY, Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1926. Serial No. 127,496. 2 Claims. (Cl. 154—10.)



1. An apparatus for expanding a tire from the flat into tire form comprising means for applying a shaping force to a tire, and means for resisting the shaping force at the outer circumference of the tire to exert a holding pressure upon the splice of the tire tread while leaving the sidewalls of the tire unconfined for readjustment to shaped condition.

1,694,228. WORM COVEYER. RICHARD MÜLLER, Spandau, Germany, assignor to Krah & Kirchhoff, Berlin, Germany. Filed Apr. 1, 1927, Serial No. 180,291, and in Germany June 22, 1926. 1 Claim. (Cl. 198—229.)



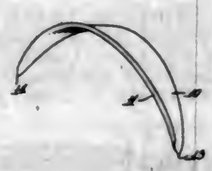
In a conveyer, a housing, a screw therein, an inlet to said housing, a toothed wheel engaging with said screw and mounted adjacent said inlet, whereby the toothed wheel aids in feeding material to the screw, and prevents rotation of material in the screw.

1,694,229. THREAD RESTORER. JOSEPH P. NESTOR, Lykens, Pa., assignor to Reiff & Nestor Company, Incorporated, a Corporation of Pennsylvania. Filed Apr. 22, 1927. Serial No. 185,787. 1 Claim. (Cl. 10—1.)



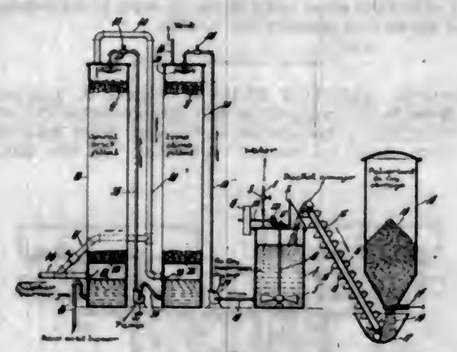
A thread restorer comprising a body having a file face formed with longitudinal channels spaced to conform to the pitch of a thread to be restored and intersecting transverse grooves of greater depth than the longitudinal grooves, thereby producing separated teeth members the apex of each of which is flattened longitudinally of the body to prevent cutting action and the lower operative portion of each cutting face being disposed above the base of the transverse groove and at the level of the longitudinal channel to provide a clearance space.

1,694,230. METHOD OF MAKING SWEATBANDS. HERMAN RAPPAPORT, Brooklyn, N. Y. Filed Nov. 2, 1928. Serial No. 316,743. 1 Claim. (Cl. 2—181.)



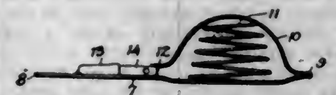
The method of constructing a sweatband for a cap which comprises providing a blank constituting a body portion and edge portion adapted to form therewith a booked edge and including the ends of said edge portion obliquely cut, with a layer of pressure aggressive adhesive along the length of the edge portion, feeding the blank in a direction parallel to the edge to be folded, gradually folding said edge, beginning intermediate the ends of the oblique cut portion and progressively folding a flap upon the body portion of the blank along the edge, peening said edge into engaging position and pressing said folded edge from one end of the blank to the other.

1,694,231. PROCESS OF MAKING RAW CALCIUM-BISULPHITE DIGESTING LIQUOR. GEORGE A. RICHTER, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Apr. 23, 1925. Serial No. 25,265. 6 Claims. (Cl. 23—132.)



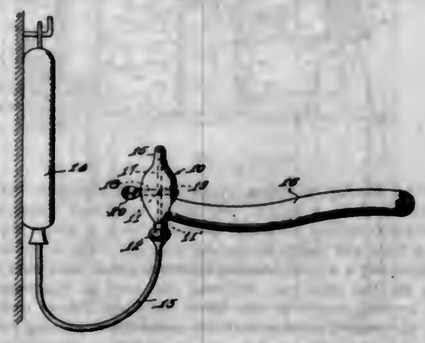
1. That step in the process of making calcium bisulphite cooking liquor, which comprises passing a suspension of finely divided limestone in water in contact with, and in counter-flow to, sulphur dioxide, through a confined mass of limestone rock.

1,694,232. TIRE-DEFLATION SIGNAL DEVICE. ROWLAND W. RIDER, Salt Lake City, Utah, assignor to Utah Royalty Corporation. Filed Sept. 16, 1926, Serial No. 135,950. Renewed June 6, 1928. 2 Claims. (Cl. 116—34.)



2. A tire deflation signal device for use in connection with a pneumatic tire comprising a plate adapted to be inserted between the inner tube and the tire casing having at one end a cupped enlargement, an inverted cup secured to said enlargement, a spring between the cupped enlargement and the interior of the inverted cup, an enlargement at the other end of the plate having an opening therein to fit over the valve stem, a tube leading from the cupped enlargement to the opening in the enlargement at the other end of the plate and a signal device adapted to be operated by passage of air through the tube.

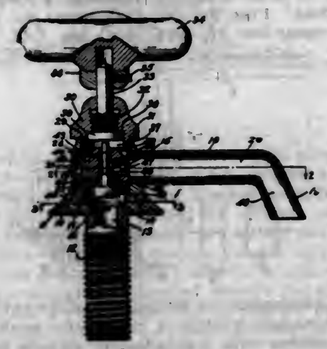
1,694,233. SYRINGE. JOHN WILLIAM ROBINSON, Chicago, Ill. Filed May 13, 1927. Serial No. 191,129. 1 Claim. (Cl. 128—227.)



A syringe for internal bath comprising a solid rubber body including a relatively large intermediate portion and upper and lower reduced portions of considerable less diameter than the intermediate portion, said body having a longitudinal bore opening at both ends, a fluid supply pipe adapted to be associated with one of the reduced end portions, the other of said reduced end portions, and said intermediate portion having rounded or curved surfaces, a rotary plug valve arranged transversely of the intermediate portion and intersecting said bore, a handle for said valve arranged at one side of the body, and a handle for the syringe, said handle forming an integral part of the relatively large intermediate portion and arranged substantially at a right angle thereto.

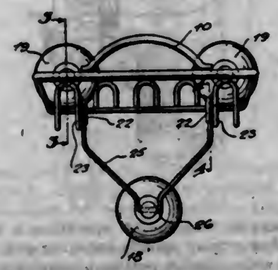


1,694,234. FAUCET AND PROCESS OF MAKING SAME. LLOYD G. SCHIMMEL, Los Angeles, Calif., assignor to Perfection Faucet Mfg. Corp., a Corporation of Nevada. Filed Oct. 11, 1928. Serial No. 311,818. 2 Claims. (Cl. 251—156.)



1. The process of producing a faucet having a body provided with a central chamber and also having a spout provided with a main straight portion and a bent terminal portion, comprising so locating a plurality of cores in a die, in angular relation, as to form desired sections, with a main-straight-portion-forming core extending through an opening in and projecting beyond a central-chamber-forming core to extend through what will be an opening in a wall of said body, and with a bent-terminal-portion-forming core meeting said main-straight-portion-forming core in mitre fashion to produce said bent terminal portion, pouring molten metal around said cores in the die, drawing said main-straight-portion-forming core through said opening in said central-chamber-forming core and through said opening in said wall of the faucet, and drawing said terminal-portion-forming core and said central-chamber-forming core.

1,694,235. SOAP DISH. ALFRED SCHOENFELDER, Chicago, Ill. Filed Aug. 16, 1926. Serial No. 129,518. 1 Claim. (Cl. 45—28.)



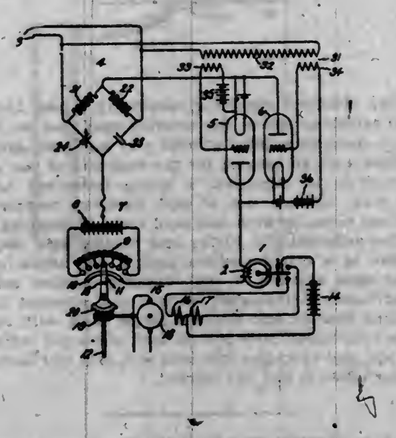
The combination with the rim wire of a soap dish, and suction elements, means for connecting certain of the suction elements to the rim wire, socket members connected to the soap dish, a connecting wire having opposite end portions detachably received by the socket members, a connecting member carried by the connecting wire and defining a threaded socket, and a screw member having a threaded shank portion adapted for threaded engagement in the socket and defining a head portion adapted to be embedded in a suction element.

1,694,236. IRON STAND. CLARA SCHULTHESS, San Francisco, Calif., assignor of one-half to Bradford M. Melvin, San Francisco, Calif. Filed Nov. 2, 1927. Serial No. 230,481. 2 Claims. (Cl. 68—27.)



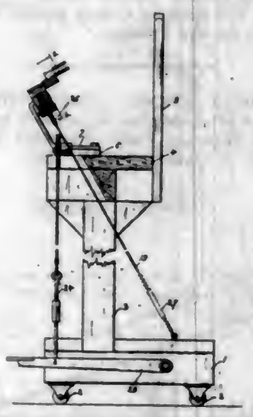
2. An iron stand comprising, in combination with a base, an inclined member flexibly joined to and extending above the base, and a spring member located between the base and the inclined member for normally resiliently maintaining the inclined member above the base.

1,694,237. CONTROL SYSTEM. DEWEY T. SIMONDS, Schnectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 6, 1926. Serial No. 86,677. 5 Claims. (Cl. 172—282.)



1. The combination of a steering apparatus, and a control circuit comprising a balanced bridge device controlled by the earth's magnetic field to regulate the current of said circuit, and means operated in response to movement of said apparatus for producing in said circuit an electromotive force whereby overtravel of said steering device is prevented.

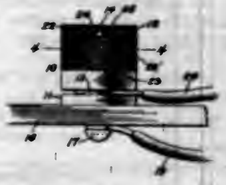
1,694,238. TUBE-SPLICING MACHINE. HORACE D. STEVENS, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 15, 1923. Serial No. 625,310. 11 Claims. (Cl. 154—5.)



1. In a machine for the uses and purposes set forth, the combination with a base plate, of a pair of tube engaging members and means to cause said member to separate to hold the end of the tube distended and unobstructed to receive the other end of the tube therein.

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1,694,239. ELECTRICAL BINDING POST. CHARLES H. THONSEN, Brooklyn, N. Y. Filed May 29, 1925. Serial No. 33,742. 2 Claims. (Cl. 173—259.)

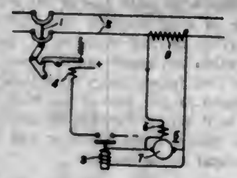


1. An electrical connector comprising a post having a head, attaching means for securing said post to a support, a clamping member slidable over said post, said post provided with an opening for the reception of one end of the wire to be connected, a spring interposed between said head and one end of said clamping member, and co-acting means between said head and said clamping member for automatically lifting and holding said clamping member in a raised position against the action of the spring upon rotation of said clamping member, said co-acting means including an inclined slot provided in said clamping member and disposed at an angle with respect to the longitudinal axis of said post, and a pin carried by said post and extending into said slot, said slot having an angular offset at one end thereof.

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1,694,240. TIME-ELEMENT DEVICE. LUDVIG S. WALLE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 5, 1926. Serial No. 86,334. 9 Claims. (Cl. 175—294.)

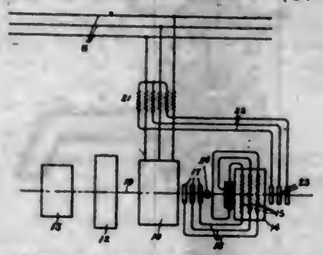
1. A time element circuit controlling device comprising a relay having a winding connected to be energized from the circuit and means for controlling the energization of the relay comprising a motor having an armature connected in circuit with the relay winding, means for normally restraining the armature against movement arranged to permit movement of the armature on the occurrence of an abnormal circuit condition and to retard the building up



of the angular velocity of the armature whereby to delay the operation of the relay in accordance with the counter electromotive force of the armature.

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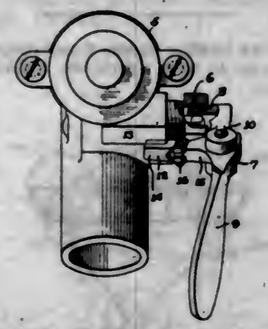
1,694,241. INDUCTION-MOTOR-REGULATING SYSTEM. WILHELM WEILER, Niederschonhausen, Germany, assignor to General Electric Company, a Corporation of New York. Filed Nov. 21, 1925, Serial No. 70,634, and in Germany Dec. 10, 1924. 2 Claims. (Cl. 172—120.)



1. In combination, an induction machine having a form wound secondary winding, a commutator machine driven in synchronism with said induction machine and having relatively movable commutated and field windings connected in series in the secondary circuit of said induction machine, said windings being arranged to substantially compensate each other such that in so far as the flow therein of the secondary current in the induction machine alone is concerned neither motor nor generator action would be produced in said commutated machine, and means for exciting the commutated winding of said commutator machine by a current proportional to the primary current of said induction machine, the phase angle of said excitation being such as to include the power factor of said induction machine.

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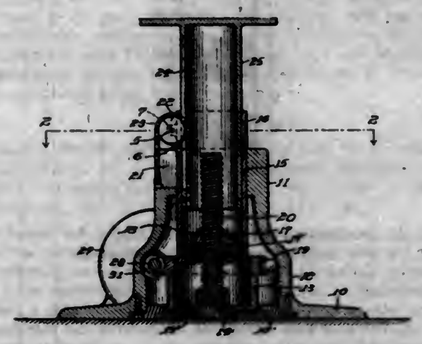
1,694,242. FAUCET WRENCH. ABRAM W. WHEATON, Jr., Maplewood, N. J., assignor to A. W. Wheaton Brass Works, Newark, N. J., a Corporation. Filed Feb. 19, 1925. Serial No. 10,160. 4 Claims. (Cl. 137—162.)



4. An attachable wrench for operating a self closing valve comprising a valve spindle engaging part and a stop engaging part with a fusible portion between the socket and stop engaging part whereby upon application of heat the fusible portion will yield and cause release of the valve spindle.



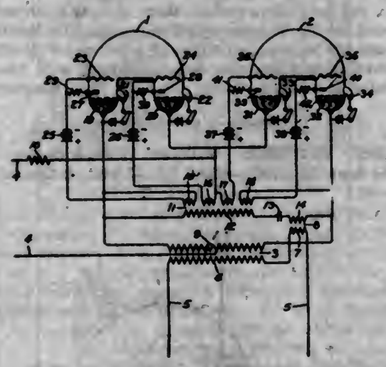
1,694,243. DENTAL CHAIR. EDWARD BURKE WILFORD, Merion, Pa., assignor to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y., a Corporation of Delaware. Filed Mar. 31, 1926. Serial No. 98,912. 5 Claims. (Cl. 155—25.)



1. In a dental chair the combination with a support, of a guide section slidably mounted on the support, a dished gear into which the section nests, a screw operatively engaging said section and arranged for rotation with the gear, a standard slidably engaging said section and having a slot, a pulley mounted for rotation on said section and slidable in said slot, and means connected to said support and to said standard and extended through the slot over said pulley, and a power source for turning the gear, the whole so arranged that as the section is raised by the screw the standard is raised by said means.

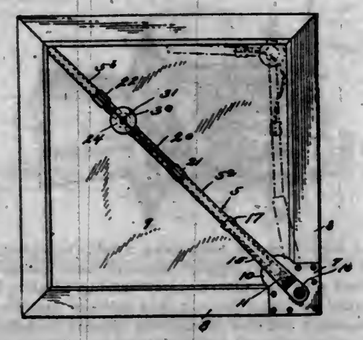
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1,694,244. ELECTRICAL APPARATUS. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 9, 1926. Serial No. 128,265. 5 Claims. (Cl. 175—363.)



1. The combination of direct and alternating current circuits, electron discharge means provided with main electrodes connected to transmit power in either direction between said circuits and with grids for controlling the starting of current between said electrodes, and means comprising a current transformer arranged to apply to each of said grids a potential of a phase dependent on the magnitude of the power transmitted between said circuits.

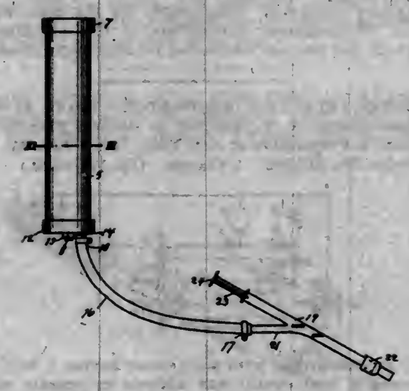
1,694,245. WINDOW CLEANER. GILBERT L. BAKER and HELEN W. PATTILLO, Oakland, Calif. Filed May 19, 1926. Serial No. 110,222. 2 Claims. (Cl. 15—255.)



2. In a window cleaner of the class specified, an arm adapted to be pivotally mounted adjacent one of its ends for oscillation on one lower corner of a window sash, an extension pivoted to the other end of the arm, the pivot organization of the arm and extension comprsing a rearwardly extending disc projection carried by the exension and a complemental disc projection carried by the arm for engagement with the first named disc projection, a pivot extending through the said arm and disc projections, a cap disc applied over the said disc projections and held by the pivot, the arm and extension having longitudinal slots, a cleaning device held in and projecting from the slots of the arm and extension to engage the glass, and flat spring means extending longitudinally over and engaging both the arm and extension.

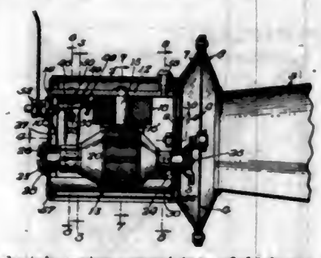
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1,694,246. CAPSULE INJECTOR. FRANK C. BOYNE, Graton, Calif. Filed Sept. 27, 1927. Serial No. 222,323. 3 Claims. (Cl. 128—264.)



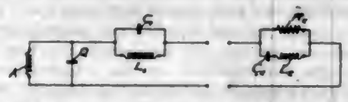
1. In a device of the character described, a cylindrical member adapted to receive a plurality of capsules, a flexible pipe extending from said cylinder, an injector secured to said flexible pipe, a slider movable in said injector and adapted to discharge capsules one at a time therefrom, said capsules entering said injector from said flexible pipe in the manner described.

1,694,247. ELECTRIC MOTOR. STEPHEN F. BRIGGS, Milwaukee, Wis., assignor, by mesne assignments, to Edwin B. H. Tower, jr., Milwaukee, Wis. Filed Aug. 28, 1922. Serial No. 584,691. 4 Claims. (Cl. 172—36.)



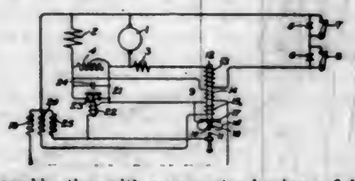
1. An electric motor comprising a field frame having side plates to provide and support opposite poles and end plates to connect said side plates, an energizing winding for said field frame, an armature arranged between said side plates and removable endwise through an opening therefor in one of said end plates, and a removable bearing plate arranged across said opening to support said armature.

1,694,248. TELEPHONE LINE. ALFRED BYK, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 5, 1924, Serial No. 684,645, and in Germany Jan. 30, 1923. 4 Claims. (Cl. 178—45.)



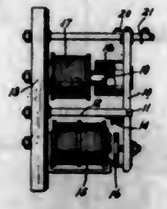
1. In a telephone line loaded with inductances, an arrangement for changing the impedance of the line to facilitate impedance simulation, said arrangement comprising means to build out the terminal of the line to a fraction of a section intermediate between a mid section and a full section so that the real part of the impedance of the line may be simulated by the real part of the impedance of a network comprising resistance shunted by capacity and inductance in series, and compensating means connected to the terminal of the line, said compensating means being such that its impedance has no real component and its imaginary component compensates for the difference between the imaginary components of the impedances of the built out line and simulating network respectively.

1,694,249. ELECTRIC REGULATOR. FRANK A. BYLES, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 17, 1926. Serial No. 116,762. 2 Claims. (Cl. 171—229.)



1. In combination with a generator having a field winding and a load circuit and adapted to operate with a drooping voltage-current characteristic, of a regulator for maintaining constant current in said load circuit comprising a winding responsive to the current in said load circuit, a winding responsive to the voltage of said field winding and arranged to operate accumulatively with respect to said current winding, a vibrating contact comprising a resiliently supported contact member actuated by said windings, and a winding responsive to the voltage of said generator and arranged to operate differentially with respect to said first-mentioned windings.

1,694,250. ELECTROMAGNETIC DEVICE. WILLIAM B. CLARKSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 19, 1925. Serial No. 63,464. 3 Claims. (Cl. 200—97.)

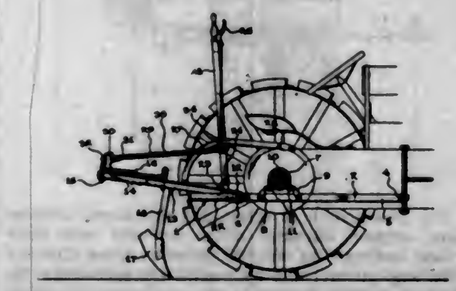


2. An electromagnetic controlling device for direct current electric motors comprising a non-magnetic movable member, means for biasing said member to one position, an electromagnet having a winding for connection with the motor circuit to be energized in accordance with a changing condition of said circuit for controlling the movements of said member, a non-magnetic current conducting element carried by said member and inductively related to said winding to have set up an induced current therein by said winding, the flux set up by the induced current in said element cooperating with the flux set up by said winding to provide a repulsive effect which holds the said member in a second position against the action of said biasing means while the rate of change of the current in said winding is above a predetermined value substantialy independently of the momentary value of the energizing current of said winding and then permits the member to move to said biased position substantially independently of the momentary value of the energizing current of said winding when the current in said winding becomes substantially constant.

1,694,251. ROLL FOR ROLLING METALS AND METHOD OF MAKING SAME. FRANCIS DAVID CORBIN, Llanelly, Carmarthen, South Wales, assignor of three-eighths to The Llanelly Foundry & Engineering Company Limited and one-third to Richard Nevill & Company Limited, Llanelly, Carmarthen, South Wales, Great Britain. Filed June 30, 1927, Serial No. 202,756, and in Great Britain July 7, 1926. 8 Claims. (Cl. 80—58.)

1. A roll for rolling metals, made in case-hardened alloy steel and having its case-hardened portion of a hard structure, and the remaining portion of a soft pearlitic or allied structure, both structures being obtained with the same slow rate of cooling of the roll from high temperatures.
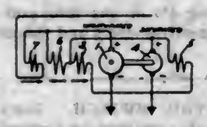
1,694,252. DITCHER. WILLIAM DOEPKE, Selah, Wash. Filed Sept. 22, 1925. Serial No. 57,842. 2 Claims. (Cl. 97—47.)



2. In combination with a tractor, a frame comprising spaced side bars having a pivotal connection with the tractor, spaced transverse bars spanning the side bars and connected thereto, plows supported at the remote extremities of said transverse bars, an arcuate rack carried by the tractor, a hand lever pivotally mounted on the tractor and provided with a latch engageable with said rack, the rear transverse bar having a lug formed with an eye, a rod connected with said lever and extending through said eye and provided on the rear end with a nut abutting said lug, and a compression spring in surrounding relation to the rod and abutting said lug on the forward face and engaging an abutment adjacent the point of connection of the rod with said hand lever.

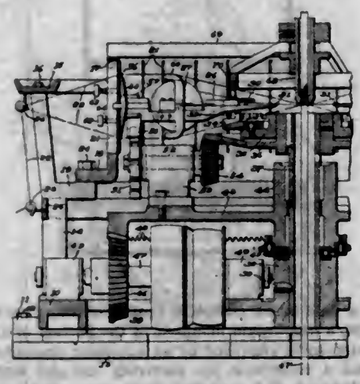


1,694,253. REGULATING SYSTEM. PETER W. FORSBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1925. Serial No. 66,618. 6 Claims. (Cl. 171—224.)



1. In a voltage regulating system for a variable speed generator, an exciter driven at a speed proportional to the speed of said generator, and means for exciting said generator comprising a winding connected so as to be energized by the voltage of said exciter and a winding connected so as to be energized by the difference between the voltages of said exciter and generator.

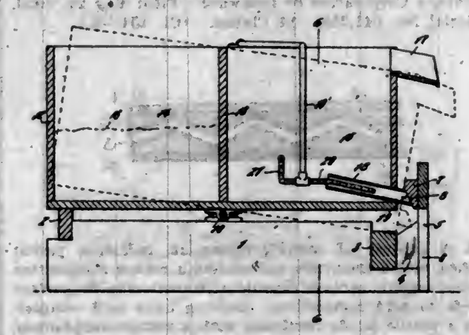
1,694,254. CIRCULAR LOOM. OTTO A. FREDERICKSON, Wethersfield, Conn., assignor to The Wire-Mold Company, Hartford, Conn., a Corporation of Connecticut. Filed June 5, 1925. Serial No. 35,101. 10 Claims. (Cl. 139—15.)



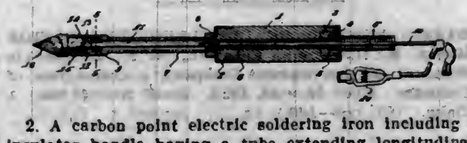
1. In a circular loom, in combination, a main frame provided with means for supporting warp threads to initiate the formation of a shed, a shuttle supported by said frame to travel in a circular path about the axis of the loom, means for driving the shuttle, a tilting nose mounted upon the shuttle, and means other than the warp thread and which is supported in a fixed position along the path traveled by the shuttle for shifting the nose to cause it to selectively direct the warp threads over and under the shuttle.

1,694,255. SAND WASHER AND SEPARATOR. EDWARD GARLICK, Kelso, Wash. Filed Apr. 9, 1927. Serial No. 182,477. 2 Claims. (Cl. 209—158.)

1. A device of the character described comprising a base, a box mounted for rocking movement thereon, weight means normally maintaining the box in horizontal position, said box being adapted to receive sand to be cleaned, a water over-flow spout at the top of the box, a sand out-let pipe at the bottom of the box, a stationary member positioned to be abuttingly engaged by the projecting outer end of said outlet pipe to form a closure therefor when the box is in normal position, and a water spray pipe located within the box and having a branch extending into said pipe.

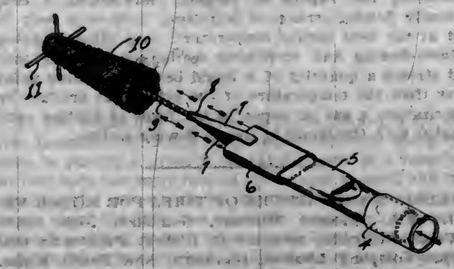


1,694,256. ELECTRIC SOLDERING CARBON. MICHAEL E. GEBEL, Armour, S. Dak. Filed Mar. 30, 1928. Serial No. 266,011. 2 Claims. (Cl. 219—26.)



2. A carbon point electric soldering iron including an insulator handle having a tube extending longitudinally therethrough, a sleeve in one end of the handle screwed on the tube, a flexible guard received in the sleeve and screwed on the said end of the tube, a hollow metal stem screwed on the second end of the tube, a lock nut screwed on the stem for sustaining the same on the tube, a conductor received through the guard and tube, a metal rod fixed on one end of the conductor and received in the stem, a metal split clutch member screwed in the end of the sleeve and clamping the rod, a chuck sleeve screwed on the stem, and designed to receive therein one end of a carbon point which contacts with the clutch, said conductor having a spring clamp on the outer end thereof and a second conductor having spring clips on both of its ends.

1,694,257. DUST OR DIRT REMOVING APPARATUS. SERPOOHIE HAGOPIAN, San Francisco, Calif. Filed May 20, 1927. Serial No. 193,033. 1 Claim. (Cl. 15—158.)




The combination with the blow pipe of a vacuum cleaner, of a dusting attachment therefor comprising a sleeve element operatively engaging the end of the blow pipe, a pair of oppositely disposed arms connected to said sleeve element and terminating in a tubular extremity, and a brushing element secured in the tubular extremity of said arms and being in axial alignment with the blow pipe of the vacuum cleaner.

1,694,258. PROCESS OF MANUFACTURING IMITATION LEATHER. ROBERT CLIFFORD HARTONG, Akron, Ohio, assignor to Seiberling Rubber Company, Akron, Ohio, a Corporation of Delaware. Filed May 24, 1923. Serial No. 641,258. 14 Claims. (Cl. 154—2.)

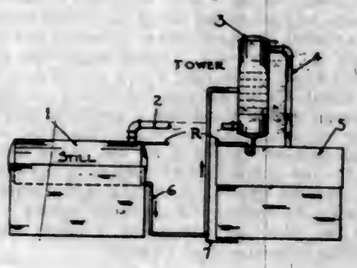


3. A process of manufacturing an imitation patent leather, which comprises calendering a rubber composition upon a smooth surface, capable of transferring its surface effects to said composition, doubling upon said composition a textile fabric frictioned with a rubber composition, and vulcanizing the product.

4. A process of manufacturing an imitation leather, which comprises frictioning a textile fabric on one side with a rubber composition, skim-coating said fabric on the side opposite said friction-coated side, with a rubber composition, doubling the friction coated side upon a rubber composition previously calendered upon a metallic liner, and vulcanizing the product.

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1,694,259. METHOD OF DISTILLING PETROLEUM. HENRY H. HEWETSON, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed June 18, 1923. Serial No. 646,005. 1 Claim. (Cl. 196—106.)

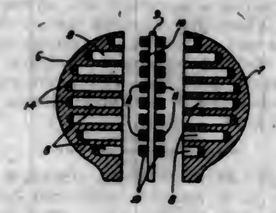



The method of continuously distilling petroleum which comprises maintaining a series of bodies of petroleum at successively higher temperatures, conducting away and condensing the vapors so formed, maintaining a continuously flowing stream of petroleum from each body to that at the next higher temperature, each stream having a down-flowing and up-flowing section, introducing into said stream a quantity of a liquid having a boiling point lower than the temperature of the stream, to produce by vaporization a gas or vapor in the form of bubbles commingled with the liquid in the up-flowing section.

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1,694,260. MANUFACTURE OF TIRES FOR MOTOR VEHICLES. ERNEST HIBBERT, Goulburn, New South Wales, Australia, assignor to Hibbert Pneumatic Cell Tyre Company Limited, Goulburn, New South Wales, Australia, a Company of New South Wales, Australia. Filed Dec. 3, 1926, Serial No. 152,468, and in Australia Apr. 17, 1926. 2 Claims. (Cl. 18—53.)

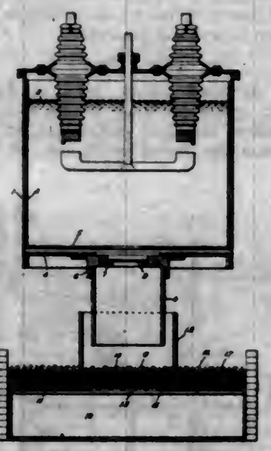
1. In the manufacture of tires for motor vehicles, forming a semi-vulcanized rubber core into two similar annular parts or halves, each of said halves having recesses or cells coinciding with recesses or cells in the opposed half and positioned transversely of the tread and in staggered relation in plan, placing a division member having lateral pins between the annular parts with the lateral pins adapted to partly enter the opposed recesses in the halves,



confining or passing air or gas into said cells, and vulcanizing the halves of the cores and the division members and pins together.

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1,694,261. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 26, 1925. Serial No. 52,669. 3 Claims. (Cl. 200—150.)



1. In a fluid break switch, a tank containing an insulating liquid, a diaphragm mounted in the bottom of the tank constructed to be ruptured by an excessive pressure in the tank, and a receptacle for receiving the gas and liquid ejected through the ruptured diaphragm, said receptacle having a cover comprising means for cooling and preventing combustion of the material received thereby.

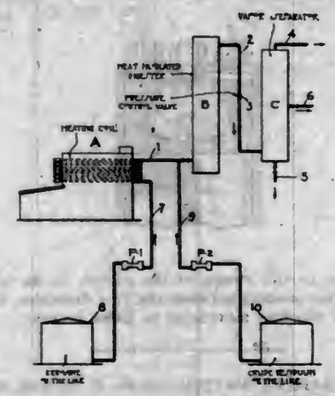
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1,694,262. PROCESS OF CONVERTING HYDROCARBONS INTO LOWER-BOILING PRODUCTS. FRANK A. HOWARD, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed May 21, 1923. Serial No. 640,491. 2 Claims. (Cl. 196—51.)

1. A process for the conversion of hydrocarbons into lower boiling products which comprises feeding a stream of light gas oil into a heating passageway at a temperature around 900–1000° F., to effect a material amount of cracking in vaporous condition, then passing the products into a further passageway which is guarded against heat loss, while also introducing a heavy gas oil, contacting said vapor and liquid products together for a substantial period of time and allowing conversion substantially in



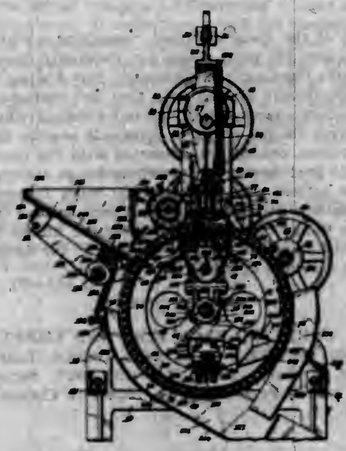
the liquid phase, to go on in the mixture solely on the heat already acquired, and passing the liquid products together with any vapors, from a point substantially above



the bottom of the passageway guarded against heat loss into a vapor-separating zone and separating the lighter hydrocarbons from the heavier.

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1,694,263. CHERRY-PITTING MACHINE. CHARLES T. HOWSON, Silver Creek, N. Y., assignor to Huntley Manufacturing Co., Silver Creek, N. Y., a Corporation of New York. Filed Aug. 7, 1925. Serial No. 48,737. 20 Claims. (Cl. 146—19.)

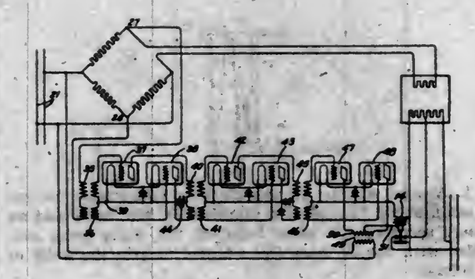


5. A cherry pitting machine, comprising an intermittently rotatable cylinder having pitting openings, pitting mechanism above said cylinder, a spout at one side of said cylinder and extending downwardly along the same, said spout being adapted to receive pitted cherries from said cylinder, and a cherry-discharge spout underneath said cylinder extending laterally and downwardly and receiving the pitted cherries from said first-mentioned spout.

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1,694,264. TEMPERATURE REGULATOR. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 22, 1925. Serial No. 38,842. 17 Claims. (Cl. 219—20.)

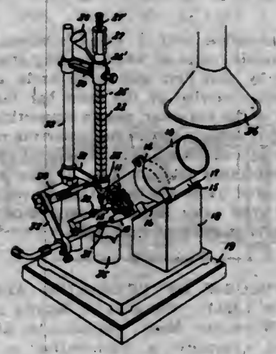
9. A temperature regulator comprising a Wheatstone bridge provided with a resistance varying with the temperature to be regulated, a source of alternating current supply connected across two of the terminals of said bridge, an electron discharge device provided with input and output circuits, connections between said input circuit and the other two terminals of said bridge, connections between said output circuit and said supply source,



and temperature control means in said output circuit responsive to the current in said output circuit so as to maintain a predetermined temperature.

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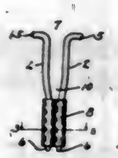
1,694,265. METHOD AND APPARATUS FOR TREATING FILAMENTS. GEORGE E. INMAN, East Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed May 10, 1926. Serial No. 107,883. 2 Claims. (Cl. 91—45.)



1. The method of applying getter to filaments for electric incandescent lamps and similar articles which consists in placing a number of said filaments in a receptacle so that they are supported on the bottom thereof, and then spraying the getter material upon said filaments and at the same time directing gas pressure tangentially so as to cause a swirling of said filaments in front of the spray.

2. In an apparatus for applying material to filaments, the combination of a receptacle for holding a number of filaments and having a plurality of openings in its wall near the bottom thereof, a gas pressure jet disposed at each of said openings at least one of which is directed tangentially of the receptacle, and means for feeding a liquid containing said material so as to be encountered by the gas issuing from at least one of said jets and sprayed into the corresponding opening.

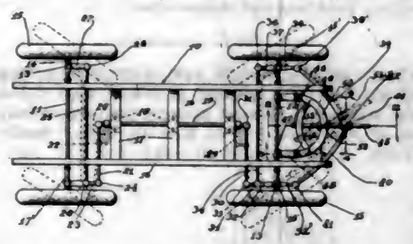
1,694,266. NAIL EXPANSION. JOHN KARITZKY, Garwood, N. J., assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J., a Corporation of New Jersey. Original application filed Aug. 20, 1926, Serial No. 130,387. Divided and this application filed Feb. 10, 1927. Serial No. 167,081. 2 Claims. (Cl. 85—2.4.)



1. A new article of manufacture comprising an expansion shield formed of a plurality of wire units and an insert securing the units together, the units being provided with one or more feet adapted to grip the walls of a hole.

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1,694,267. TRAILER. EMORY A. KING, Corydon, Iowa. Filed Jan. 28, 1927. Serial No. 164,289. 6 Claims. (Cl. 280—99.)



1. The combination with a vehicle chassis, axles carried by the chassis, pairs of wheel bearing stud axles pivotally carried by said first mentioned axels, and a draw bar, of a member carried by the draw bar for movement longitudinally of the draw bar, means connecting said member to one pair of said stud axles for imparting movement to the stud axles in a direction of movement of the draw bar, and means connecting said one pair of stud axles to the other pair of stud axles for imparting movement to said other pair of stud axles in an opposite direction to the movement of said one pair of stud axles.

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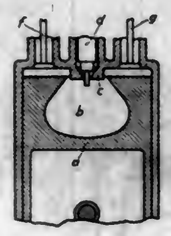
1,694,268. PROCESS OF PREPARING ALKYL COMPOUNDS OF LEAD. CHARLES A. KRAUS and CONRAD C. CALLIS, Worcester, Mass., assignors to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 13, 1923. Serial No. 631,941. 6 Claims. (Cl. 260—11.)

1. The process of preparing lead tetraethyl which comprises subjecting an alloy containing 20% sodium and 80% lead to the action of water in substantially equimolecular proportion to the sodium, in the presence of ethyl iodid and in the absence of an organic catalyst, while maintaining the mass at substantially its boiling point.

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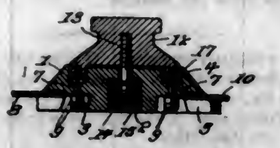
1,694,269. INTERNAL-COMBUSTION ENGINE. FRANZ LANG, Munich, Germany, assignor to Acro Aktiengesellschaft, Knessnacht-on-the-Rigi, Switzerland. Filed Apr. 3, 1925, Serial No. 20,468, and in Germany Apr. 4, 1924. 6 Claims. (Cl. 123—30.)

1. In an internal combustion engine, a combustion space, comprising a combustion chamber arranged in the piston head, said combustion chamber having its forward portion reduced to form a throat in combination with a second combustion chamber in the cylinder-head communicating with the first combustion chamber, and a fluid-injection valve arranged in the cylinder-head and arranged to project into the throat of the first chamber during the final portion of the stroke of the piston, so as to leave only a vertical passage between the two chambers, thereby imparting a whirling movement to gases present.



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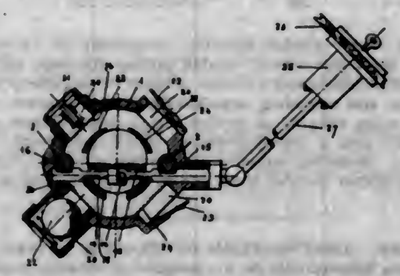
1,694,270. SAFETY SWITCH. JOHN F. LAUPER, Hollandale, Wis. Filed Oct. 24, 1927. Serial No. 228,348. 1 Claim. (Cl. 200—155.)



A switch of the class described comprising a stationary part and a movable part, means for yieldingly connecting the two parts together, the stationary part having an annular groove therein formed with four flat portions in its bottom and four concaved portions in its bottom which are placed between the flat portions, terminals passing through the flat portions, conductors connected with the terminals, the movable part having a depending flange entering the groove, the bottom edge of the flange being formed with four flat portions and four convex portions so that the bottom of the flange conforms to the bottom of the groove and a pair of plates on the bottom edge of the flange, one plate being arranged opposite the other plate.

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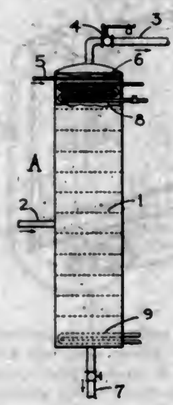
1,694,271. COMBINED BACK FIRE AND THEFT PREVENTING DEVICE. ALEXANDER IEZEKIL LIBERMAN, Boulogne, France. Filed May 18, 1927, Serial No. 192,459, and in France Dec. 11, 1926. 10 Claims. (Cl. 251—6.)



1. A combined theft and back-fire preventing device located in the induction pipe of an internal combustion engine comprising an obturating member located in said induction pipe and opening towards said engine, a lock, and means actuated by said lock for maintaining said obturating member in closed position.



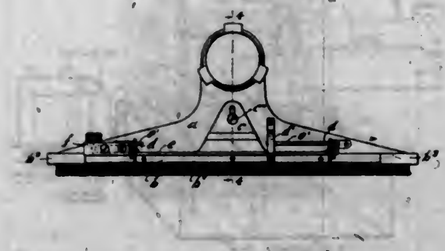
1,694,272. PREPARING HYDROCARBON PRODUCTS. NATHANIEL E. LOOMIS, Elizabeth, N. J., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed July 13, 1923. Serial No. 651,249. 1 Claim. (Cl. 196—12.)



The improvement in the art of preparing hydrocarbon products, which comprises introducing a light condensate containing some hydrocarbons which are normally gaseous into the intermediate region of an absorber tower, and passing vaporizing constituents up through progressively cooler zones, while maintaining a pressure of 100–300 lbs. per square inch and supplying a flow of heavy naphtha countercurrently, and drawing off a substantially balanced gasoline from the bottom of the tower.

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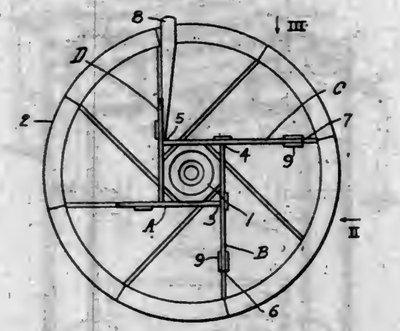
1,694,273. SUCTION CLEANING APPARATUS. EUGENE F. MARTINET, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 15, 1927. Serial No. 198,958. 5 Claims. (Cl. 15—158.)



1. The combination with a suction cleaning nozzle, of a brush member vertically adjustable with respect to the mouth of said nozzle and operatively associated therewith, a horizontally positioned rotatable adjusting member interposed between said brush and nozzle, detent means for maintaining the brush in adjusted positon, and an actuating lever provided on said adjusting member having a plurality of angularly positioned members adapted to be alternatively engaged by the foot of the user, substantially as set forth.

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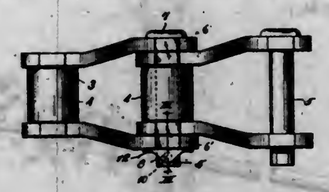
1,694,274. TUG WHEEL. JOHN I. MCKEAN, Parkersburg, W. Va., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Apr. 13, 1923. Serial No. 631,765. 4 Claims. (Cl. 64—51.)



1. In combination, a shaft, a rope-operated tug rim, spokes fitted to shaft and rim, and a series of rope-engaging members at one side of the wheel and arranged to receive the rope when displaced from the wheel, said members being fastened to the shaft and braced against each other in succession, one of the rope-engaging members being set into the side of the rim of the wheel.

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1,694,275. SPROCKET CHAIN. JOHN CLIFFORD MERWIN, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 19, 1925. Serial No. 16,736. 1 Claim. (Cl. 74—32.)



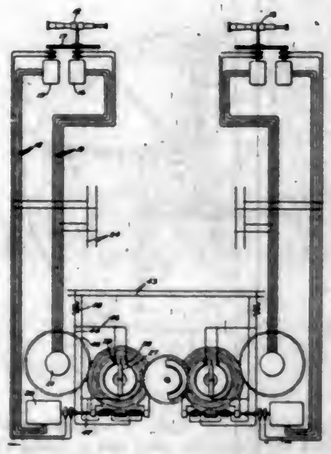
The combination with a pair of sprocket chain links and a pin uniting them of a cross bar extending through the pintle, the opposite ends of the pin extending beyond the circumference of the pintle, and a washer interposed between the pin and the adjacent face of a side bar, the washer being of thin metal and formed with ribs parallel with the pin and with edge portions bendable and adapted to be bent outward to form flanges that lie opposite the ends of the pin.

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1,694,276. ELECTRICAL CONDENSER. ARTHUR MÖHRLE, Stuttgart, Germany, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Apr. 5, 1927, Serial No. 181,284, and in Germany Apr. 21, 1926. 1 Claim. (Cl. 175—41.)

An electrical condenser having a dielectric which consists of fibrous material, said material being soaked essentially with a mass consisting of lime soap of purified Montan wax.

1,694,277. MEANS FOR REPRODUCING POSITION. EDWIN J. MURPHY and LEONARD P. HUTT, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Oct. 9, 1924. Serial No. 742,732. 11 Claims. (Cl. 172—239.)



1. The combination with a driven object, of a plurality of driving means for said object operating at different speeds, driving connections between said driving means and said object, and means including an electric contact device operated by the driving means of lower speed for releasing said driving connection for the driving means of higher speed.

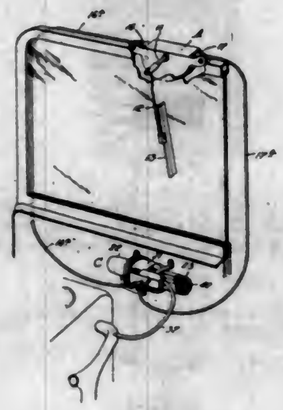
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1,694,278. COUPLING AND STEERING DEVICE FOR AUTOMOBILES. ALGOT W. NORDGREN, St. Paul, Minn., assignor to Marquette Manufacturing Company. Filed Sept. 30, 1926. Serial No. 138,637. 1 Claim. (Cl. 280—33.55.)



In combination with the axle of an automobile having steerable wheels thereon and a steering rod connecting the wheels whereby longitudinal movement of the steering rod imparts steering movement to the steerable wheels, a tow pole comprising an axle clamp, said clamp having means for engaging two sides of the axle, an adapter comprising a hinged band having hooked ends adapted to be engaged by said last mentioned means, a connecting member pivoted thereto for swinging movement in a horizontal plane, a rod pivoted to said connecting member for swinging movement in a vertical plane to provide for steering rods of different heights relative to the axle, a steering rod clamp having an opening therein tapered from each end thereof for slidably and loosely receiving said rod to provide for steering rods of different distances from the axle and to allow lateral swinging movement of said rod relative to the steering rod clamp, and a draw bar connected to said connecting member and having fastening means at its forward end.

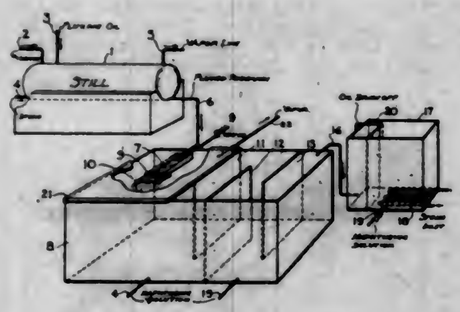
1,694,279. MEANS FOR OPERATING MOTOR-VEHICLE ACCESSORY MOTORS. JOHN R. OISHEI, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed June 21, 1924. Serial No. 721,439. 12 Claims. (Cl. 60—60.)



1. The combination with a fluid pressure operated accessory motor having a piston therein adapted to be moved alternately in opposite directions, of means for utilizing suction, as created in the normal operation of a vehicle internal combustion engine to produce a fluid pressure substantially above one atmosphere, said fluid pressure and said suction being adapted to be operatively communicated to said accessory motor at opposite sides of said piston to move said piston and actuate said accessory.

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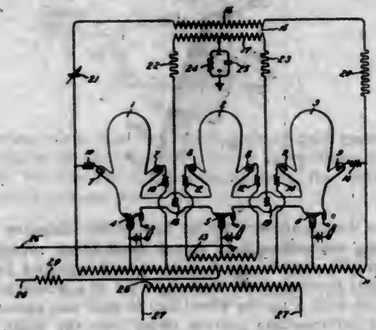
1,694,280. PROCESS FOR RECLAIMING DISTILLATION RESIDUES. RAYMOND E. POWELL, Houston, Tex., assignor to Standard Oil Development Company, a Corporation of Delaware. Filed Feb. 25, 1925. Serial No. 11,425. 4 Claims. (Cl. 196—146.)




3. Process of reclaiming a distillation residue containing water-soluble constituents, which comprises mixing a fluxing agent with a hot body of the residue, maintaining the heat of the mixture, discharging the hot fluxed residue upon the surface of a stream of water, allowing stratification to take place, and separately withdrawing the oil and the water containing dissolved constituents.



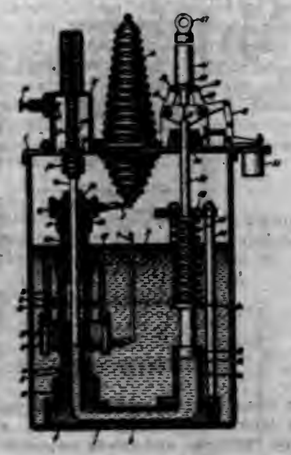
1,694,281. ELECTRICAL APPARATUS. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 29, 1926. Serial No. 119,431. 5 Claims. (Cl. 175—363.)



1. The combination of alternating and direct current circuits, an electron discharge device comprising a plurality of vaporizable electrodes connected between said circuits, means for controlling the transmission of current between said electrodes, and means connected between one of said electrodes and said control means for maintaining said control means at a negative potential with respect to said electrode while said current passes through its zero value.

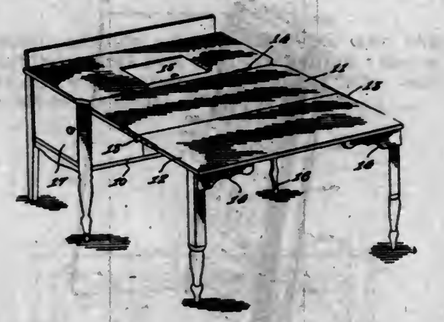
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1,694,282. ELECTRIC SWITCH. WILLIAM K. RANKIN, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1926. Serial No. 132,425. 3 Claims. (Cl. 200—150.)



1. An electric switch comprising an enclosing vessel adapted to contain an insulating liquid, an interrupting chamber therein having a fixed socket contact member at one end thereof, a cooperating movable contact rod extending through the opposite end thereof, a pump in the vessel in communication with the chamber whereby liquid forced into the chamber separates the contacts and flows through the socket contact member, a spring for operating the pump and load responsive means for releasing the spring.

1,694,283. BUFFET TABLE. JAMES C. REID, Lincoln, Nebr. Filed June 29, 1927. Serial No. 202,328. 4 Claims. (Cl. 45—51.)



3. In a device of the character described comprising an article of furniture provided with leg members, said members having portions removed, and a table carried by the removed portions and adapted to be supported thereby when extended for use.

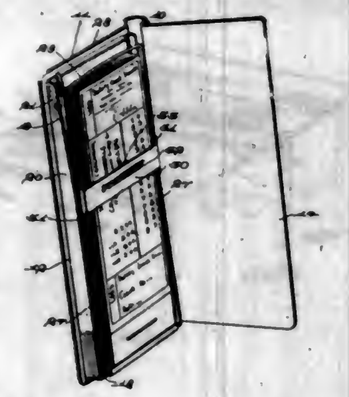
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1,694,284. ELECTRIC HAMMER. MAX SANTA ANA, Huntington Park, Calif. Filed Dec. 1, 1927. Serial No. 237,040. 4 Claims. (Cl. 1—46.)



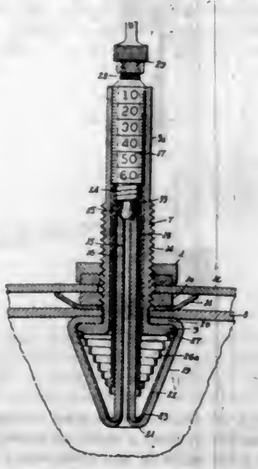
1. In a device of the class described, a magazine, plates in the magazine for holding a series of nails therebetween, a spring urging the nails in one direction, a separator between the first and second nails, a spring normally holding the separator in place, a bar having a cam, a spring holding the bar in one position, said separator having a shoulder engageable by said cam, a casing on the magazine, a pair of spring pressed blocks in the casing for functioning as guides for nails, one of said blocks being provided with a notch having an inclined edge, and an offset end on said bar engageable with said edge so that when the blocks are separated the bar is moved to bring the cam into play, against the shoulder of the separator and to release the separator between the first and second nails.

1,694,285. CASH-FARE MANIPULATOR. WILLIAM DAW SCALF, Pineville, Ky. Filed July 14, 1926, Serial No. 122,485. Renewed Oct. 15, 1928. 2 Claims. (Cl. 206—40.6.)



1. A device of the character described comprising a receptacle, having a bottom, side walls, and an end wall, the end wall being provided with an extension bent inwardly in spaced relation with the end wall, a bail of U-shaped construction having its free ends bent inwardly and located between the extension and the end wall so that the bail is not only pivotally mounted but slidably mounted in the container, a cutter having bearings on opposite ends, said bail including legs adapted to receive the bearings, a cutter being provided with a knife at one edge and an enlargement at the opposite edge and means for maintaining a book of fare receipts in the container.

1,694,286. TIRE VALVE STEM AND PRESSURE GAUGE. NELSON T. SHORTS, Fern, Pa. Filed Apr. 6, 1927. Serial No. 181,443. 5 Claims. (Cl. 152—11.5.)



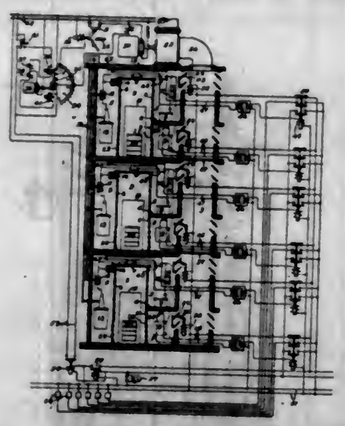

1. A tire pressure gauge comprising a barrel, an indicating member slidable therein, a flexible member connected to the indicating member and projecting from the inner end of the barrel, the bulb connected to the inner end of the barrel and said flexible member, and a coiled spring surrounding said flexible member and having its outer end connected to said indicating member, said spring extending within the bulb and having a reversely extending conical portion bearing against the inner end portion of the barrel.

1,694,287. HEADBLOCK-STRAP ATTACHMENT. CLIFFORD L. SNYDER, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Filed Feb. 2, 1928. Serial No. 251,419. 6 Claims. (Cl. 105—368.)



2. The combination with an automobile shipping deck embodying supporting legs and a head block secured to the inner sides of the upper ends of said legs and formed with a seat to receive the lower portion of a wheel hub, of a strap for anchoring the wheel hub in said seat embodying a curved intermediate portion fitted over the upper portion of the hub and end portions secured to the inner face of the head block, and a buffer strap attached at its upper end to the intermediate portion of the anchoring strap and having its lower end portion secured to the inner face of the head block, said buffer strap having a U-shaped upper end portion adapted to snugly receive the wheel hub and to engage the outer end of the latter to hold the head block out of contact with the wheel.

1,694,288. INSTALLATION OF ELECTRIC APPARATUS. ERIK G. SOHLBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 24, 1927. Serial No. 170,641. 9 Claims. (Cl. 175—298.)

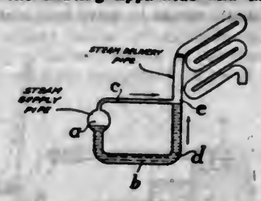


1. In an installation of electric apparatus, a structure comprising intercommunicating chambers, electric apparatus in said chambers, and means responsive to the presence of a predetermined amount of conducting material in the air in any chamber for preventing said air from escaping into other of said chambers.

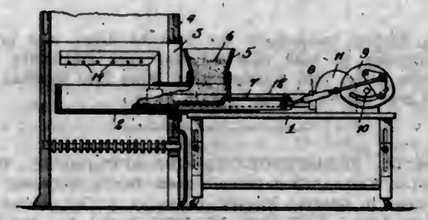
1,694,289. DEVICE FOR DRAINING THE MAIN PIPE OF HEATING INSTALLATIONS OF RAILROAD CARS. HERMANN SKULOWITZ, Vienna, Austria. Filed Feb. 20, 1922, Serial No. 538,118, and in Austria Mar. 2, 1921. 5 Claims. (Cl. 236—53.)

1. In a heating system for railway cars or the like, a main steam pipe and a heating apparatus, a receptacle for collecting the condensate in said main steam pipe, a communication path leading from the lower part of the receptacle to the heating apparatus and an additional communication path from the upper part of said main steam pipe joining the first and intended to carry steam into the heating installation simultaneously with the delivery of condensate into the same.



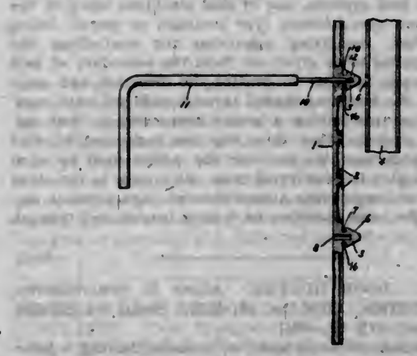



1,694,290. COMBINED COAL STOKER AND BURNER. JOHN CHRISTIAN ST. CLAIR, Butte, Mont. Filed Apr. 11, 1927. Serial No. 182,890. 1 Claim. (Cl. 110—75.)



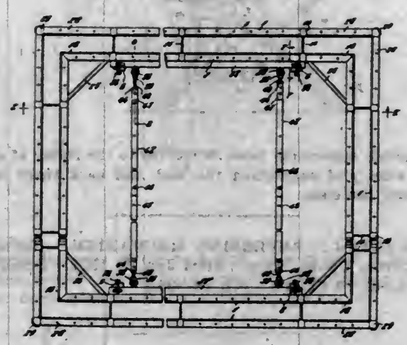
In a device of the character described, a hollow body extending into an opening in a side wall of the furnace casing, said hollow body constituting a fire box portion within the furnace casing, a fuel supply chamber outside of the furnace open at its upper end at the outer side of the furnace casing and a fuel feeding passage extending through the opening in the wall of said furnace casing and extending between said fire box and said fuel chamber, a plunger reciprocable in the lower part of the fuel supply chamber and in said fuel feeding passage for delivering fuel from said fuel supply chamber to said fire box and an air delivery conduit extending alongside of said body into said furnace casing and having a nozzle portion supported above said fire box, said discharge nozzle having rows of spaced discharge apertures in its lower part located in position to discharge air blasts downwardly and outwardly onto fuel within said fire box.

1,694,291. GASKET. PHILIP T. STWERT, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 12, 1927. Serial No. 212,596. 12 Claims. (Cl. 20—69.)



1. A gasket adapted to be applied to a member having a perforation therein, said gasket having a portion larger than the perforation and adapted to be received thereby and having an opening extending incompletely through said portion whereby the gasket may be applied to the member by inserting a member in the opening in the gasket and forcing said portion into the perforation in the member.

1,694,292. METHOD OF CONSTRUCTING AND SUPPORTING FORMS FOR CONCRETE WORK. FRED A. TRACEY, Portland, Oreg. Filed Feb. 10, 1928. Serial No. 253,405. 2 Claims. (Cl. 25—118.)

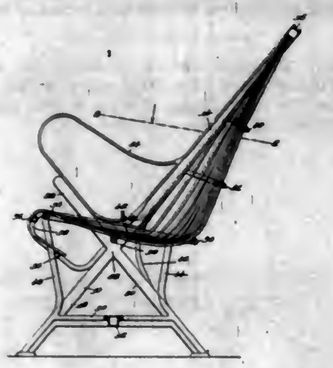


2. A form for concrete structures, comprising inner and outer units, all of which include frames of the same size and dimensions except the corner units, all of said frames having facings and the ends and edges thereof being provided with equidistantly spaced bolt receiving openings, the inner corner frames being of triangular formation and braced, said units designed to be arranged edge to edge and in superimposed relation and to have bolts passing through the registering openings therein, form supporting posts having equidistantly spaced bolt openings therethrough that are arranged between the confronting edges of the units and receiving the bolts therethrough, spacer strips between the form supporting posts and the frame units having equidistantly spaced openings for the reception of bolts, wire members passing transversely through the form supporting posts, corner posts for the corners of the outer frame units having equidistantly spaced bolt openings for the reception of the bolts therethrough, collapsible brackets removably and adjustably secured to the inner frame units, a beam supported in the brackets, wedge elements securing the beam in the brackets, shorings between the brackets, each comprising adjustably connected beams having sockets through the ends thereof, a casing surrounding said ends, swingably supported screws on the beams received through said casings and into said sockets and nuts threaded on said screws for contacting the casings

1,694,293. METAL CHAIR. EUGENE F. TAUDO, Weston Mass. Filed Aug. 24, 1927. Serial No. 215,009. 3 Claims. (Cl. 155—194.)

1. A chair comprising a frame having straight, metal, tubular portions forming the sides, means for maintaining the frame in an inclined position sloping rearwardly from the sides thereof, a series of spaced, metal tubes extending between the side members continuously throughout the seat and back portion, the tubes projecting rearwardly from the plane of the frame and thence curved and ex-

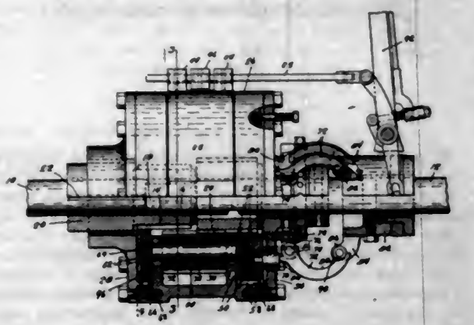
tending upwardly to join the frame at the upper end to project the junction of the seat and back portions of the chair rearwardly of the plane of the frame, and a series



of curved, transverse tubes connected to the frame at opposite sides and supporting the seat and back tubes intermediate the ends.

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1,694,294. REVERSING MECHANISM. HENRY A. TUTTLE, Upton, Mass. Filed Jan. 7, 1927. Serial No. 159,543. 4 Claims. (Cl. 74—34.)

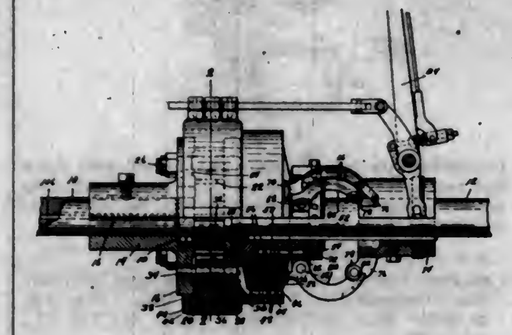


1. In a reversing mechanism, the combination of a driving shaft, a driven shaft, gearing connecting said shafts for reverse drive including a casing carrying components of said gearing, clutch mechanism connecting said shafts for forward drive including clutch-sections disposed on opposite sides of said gearing, and actuating mechanism for said clutch mechanism including pressure-transmitting means disposed within said casing independent of said gearing and interposed between said clutch-sections arranged to move one of them axially independently of corresponding movement of said gearing.

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1,694,295. REVERSING MECHANISM. HENRY A. TUTTLE, Upton, Mass. Filed Jan. 7, 1927. Serial No. 159,544. 9 Claims. (Cl. 74—34.)

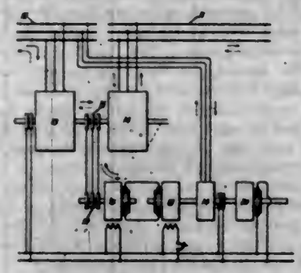
1. Reversing gearing having the combination of aligned driving and driven shafts, gearing conecting said shafts for reverse drive including a spur gear fixed to said driven shaft, a gear carrier fixed to said shafts, said gear carrier comprising a pair of detachably connected and spaced circular plates, pinion gears disposed between and carried by said plates some of which mesh with said spur gear, an internal gear disposed between and held against axial movement by said plates and surrounding and meshing with others of said pinion gears and overlying and having a rotatable bearing support on said carrier, one of said plates having an axial cylindrical extension, clutch plates disposed within and carried by said cylindrical extension, other and cooperating clutch plates connected with said driven shaft, means to move said clutch plates



into driving engagement for forward drive, and brake mechanism to hold said internal gear stationary for reverse drive, said internal gear being free to float on said gear carrier during forward drive.

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1,694,296. FREQUENCY-CHANGER APPARATUS. WILHELM WEILER, Niederschonhausen, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 16, 1927, Serial No. 184,215, and in Germany May 15, 1926. 3 Claims. (Cl. 172—281.)



1. In combination, two alternating current systems, a frequency changer set connected between said systems comprising two mechanically connected alternating current dynamo electric machines respectively electrically connected to said systems, one of said machines being of the form wound asynchronous type arranged to operate below synchronism, regulating apparatus for controlling the power supplied to or given out from the secondary of said asynchronous machine to control the direction and magnitude of the load transferred through said set, said regulating apparatus having a power connection to that distribution system other than the one connected to said asynchronous machine so that the power used in such load regulation is transferred from one system to the other through said regulating apparatus and asynchronous machine in the same direction as load is transferred through said set.

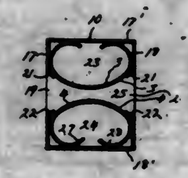
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1,694,297. DOOR BUFFER. ALLEN R. WHITTINGTON, Detroit, Mich. Filed Oct. 21, 1927. Serial No. 227,698. 5 Claims. (Cl. 16—85.)

1. In a door dovetail member, a casing having a laterally opening transversely extending recess for receiving a tongue of a door dovetail member, means in said casing for cushioning the tongue of a dovetail member including a



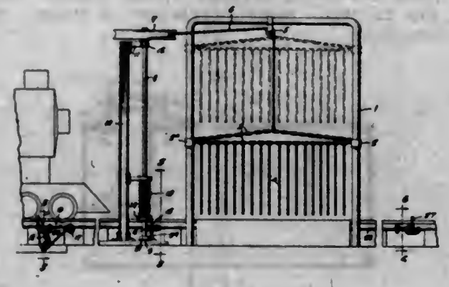
substantially arcuate shaped spring extending transversely but movable freely longitudinally of said casing at one longitudinal edge of said recess, abutments for said spring on said casing at opposite ends of said recess, and substantially C-shaped strips of yieldable material projecting rearwardly from said spring at the opposite ends thereof and freely slidably engaging fixed parts of said casing and



constantly pressing said spring toward said transversely extending recess whereby said spring will be held against said abutments when said tongue is outside of said recess and will be held against said tongue when in said recess, said C-shaped strips being contractible and adapted to curl and slide around on fixed parts of said casing when said spring is engaged and moved longitudinally of said casing by said tongue to cushion the said spring.

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1,694,298. AUTOMATIC FOLDING CROSSING GATE. JAMES M. WILLIAMS, Sandford, Fla. Filed July 29, 1927. Serial No. 209,323. 3 Claims. (Cl. 246—293.)

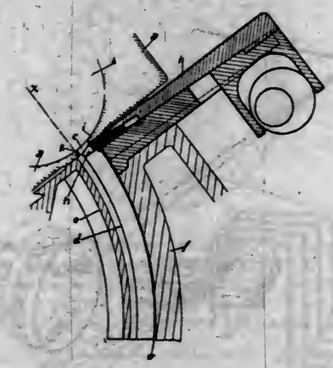


1. An automatic crossing gate flexibly supported centrally of an arch before the crossing, comprising a foldable openwork fabric guided on sleeves slidable on the arch, automatic track instruments a determinate distance at the sides of the crossing, flexible means for operating the gate, a lever on the track instrument operated by a passing train and connected with said flexible means, a rotatable spring pressed standard at the side of the arch to lower the gate on approach of a train and raise the same when it passes.

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1,694,299. MACHINE FOR CASTING CURVED STEREOPLATES. CARL WINKLER, Bern, Switzerland. Filed Apr. 22, 1927, Serial No. 185,853, and in Germany July 17, 1926. 1 Claim. (Cl. 22—2.)

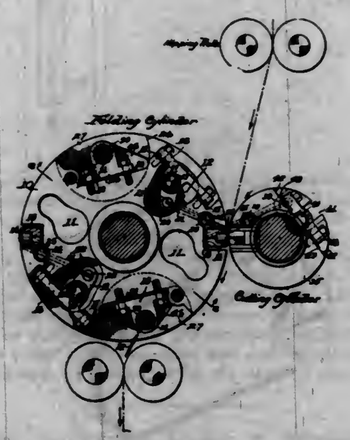
In a machine for casting curved stereotype plates, a melting pot having its lower portion reduced in thickness and provided therein with an outlet slot controlled by a cock, the slot being so located in the reduced portion of the pot that it will be in advance of a vertical line passing



through the axis of the cock and its rear wall will be of greater height than its front wall, and a casting box adapted to be pressed against the melting pot.

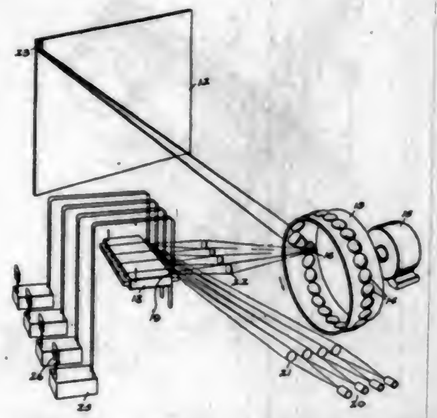
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1,694,300. FOLDING AND CUTTING COUPLE FOR FOLDING MACHINES. HENRY A. WISE WOOD, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed Oct. 3, 1923, Serial No. 666,365. Renewed May 2, 1928. 20 Claims. (Cl. 270—76.)



1. As an article of manufacture, a cylinder forming one of the cutting and folding couple of a folding machine, consisting of metal cast with a longitudinal opening, said opening being provided with a plurality of bearings of relatively soft metal cast in finished condition for rotatably supporting a shaft, whereby the machining of the surfaces of the cylinder is avoided.

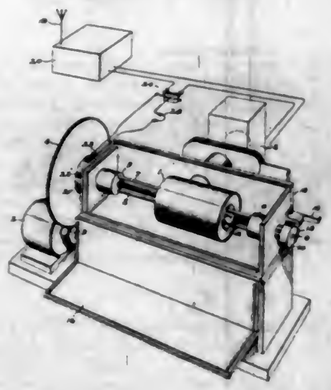
1,694,301. ELECTRICAL TRANSMISSION OF PICTURES. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 19, 1926. Serial No. 142,734. 11 Claims. (Cl. 178—6.)



1. The method of transmitting pictures which comprises simultaneously scanning a group of adjacent bands of unit areas, successively scanning adjacent groups of said bands, and producing electric currents corresponding with the tones of the picture indicated by the light emitted by said unit areas.

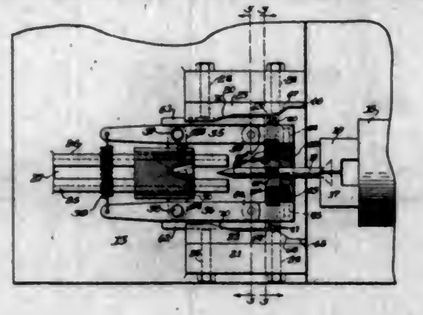
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1,694,302. TRANSMISSION OF PICTURES. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 23, 1928. Serial No. 248,731. 4 Claims. (Cl. 178—7.)



1. A picture receiving apparatus including a rotatable member, a threaded member mechanically coupled to said rotatable member through frictional contact between said members, and means arranged to cooperate with said threaded member for moving said rotatable member along its axis of rotation when said rotatable and threaded members are moved with respect to one another.

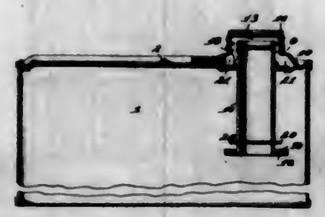
1,694,303. SCREW POINTING AND THREADING MACHINE. JOHN A. ARENZ, Chicago, Ill., assignor to International Screw Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 14, 1925. Serial No. 75,199. 10 Claims. (Cl. 10—4.)



2. In a screw pointing and threading machine, a frame, guides mounted on said frame, a pair of tool holding arms carrying the pointing and threading cutters and moving inwardly for the pointing and outwardly for the threading of the screw blank, a pointing head travelling with said arms to and from the screw and having cutters mounted therein, thread cutting dies in groups slidably mounted in said arms at the inner end thereof and spring-held, fixed cam plates engaging said dies and moving them to their engagement with the screw, a tension spring drawing on the outer ends of said arms, means for reciprocating said tool holding arms, and means for holding and rotating the screw in coaction with the pointing and threading tools respectively.

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1,694,304. LIQUID-DISPENSING CONTAINER. GEORGE JACOB ARMSTRONG, Raymond, Alberta, Canada. Filed Aug. 22, 1927. Serial No. 214,628. 6 Claims. (Cl. 221—21.)



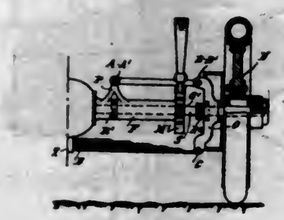
1. A liquid container having a cap closed dispensing opening, and a pouring spout of less diameter suspended therefrom within the container when not in use, and arranged to be lifted through and to project beyond said opening for dispensing purposes, said spout having a flanged lower end underlying the container at the edges of said opening with coacting members on the spout and container to clamp said flange against said edges in the projected pouring position of the spout.

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1,694,305. SWIVELED AXLE FOR MOTOR CARS. ENRICO ASCARELLI, Rome, Italy. Filed Apr. 10, 1926, Serial No. 101,178, and in Italy Apr. 14, 1925. 3 Claims. (Cl. 280—124.)

1. A supporting device for the wheels of motor cars, comprising in combination an axle connected to the frame by usual plate springs, an arm hinged to said axle, a plate spring fixed to said axle, a member pivotally connected to said arm and spring and carrying a swiveled axle-journal, all of the said parts with their points of articulation forming a non-parallelogrammatic elastic quadrangle, the two parallel sides of which forming upper and lower vibrating

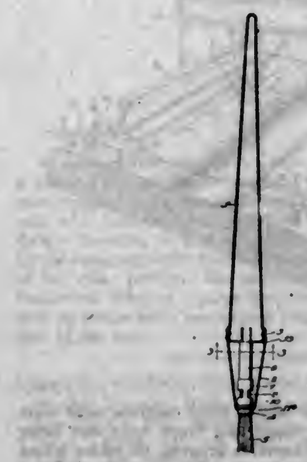




levers of different and suitably proportioned lengths whereby owing to the axle being elastically mounted and the axle-spindle rendered elastic by one side of the quadrangle which functions as a half cantilever, a double suspension is obtained.

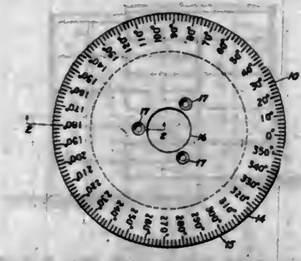
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1,694,306. BRUSH. EDWARD F. ASTLEY, Chicago, Ill., assignor to Humboldt M. Seyer, Chicago, Ill. Filed Mar. 7, 1927. Serial No. 173,880. 2 Claims. (Cl. 15—133.)



1. A brush comprising an applying-member, a tubular ferrule connected with the upper portion of said applying-member, an outer piece extending around a portion of said ferrule and applying-member and provided with an opening intermediate its end, a stop on said outer piece near one end thereof, and a fastening piece bent in the form of a loop, the loop-portion projecting into the hollow of said ferrule, said fastening piece having laterally extending engaging pieces, said engaging pieces limiting the inward movement of the fastening piece into the hollow of said ferrule.

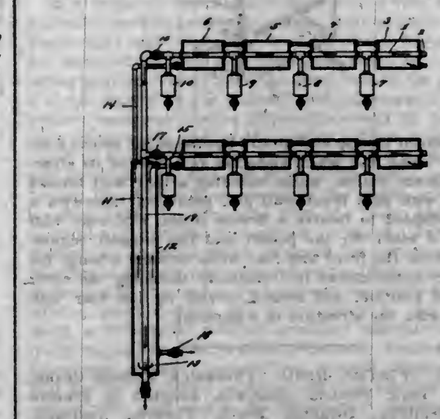
1,694,307. INDICATING DEVICES. RALPH E. BOOTH, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Apr. 25, 1924. Serial No. 709,057. 3 Claims. (Cl. 116—129.)



1. An indicating member comprising a support provided with apertures designating the desired markings thereon, a coating of opaque enamel on one surface of said support, and a coating of translucent enamel on the other surface of said support closing said apertures.

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1,694,308. METHOD OF SEPARATION AND LIQUEFACTION OF GASES. WILLIAM SPENCER BOWEN, Westfield, N. J. Filed Jan. 11, 1927. Serial No. 160,446. 1 Claim. (Cl. 62—173.)



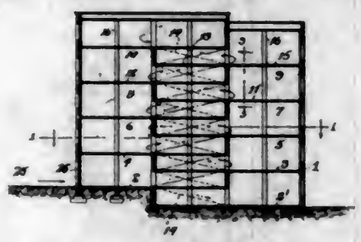
The method of segregating a gas from a mixutre of gases, which consists in passing a column of gaseous mixture at high pressure through a restricted opening, from one chamber to another, thereby reducing it to low pressure and to a temperature below the critical temperature of one of said gases at said low pressure, regeneratively cooling the advance portion of said column by gas liquefied at said lower than critical temperature, and the rearward portion of said column, by the ebullition temperature of said gas collecting the liquefied gas, and maintaining the restricted opening submerged in the liquefied gas.

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1,694,309. BUILDING. CHARLES W. BUCKHAM, New York, N. Y. Filed Apr. 7, 1927. Serial No. 181,835. 10 Claims. (Cl. 20—1.13.)

1. A garage building, including outside, end and side walls, a plurality of substantially horizontally positioned floors extending from said side walls and overlapping for a certain distance adjacent the center of the building, a series of ramps connecting said floors, said ramps being positioned at the point where the floors overlap and spaced from said walls, means forming enclosures acting as private garages positioned between the respective ramps and said end walls, means between said ramps forming enclosed

private garages, said ramps being spaced from said side walls, means spaced from said ramps for providing restricted parking spaces adjacent said side walls, said



parking spaces being spaced from said private garages and said ramps whereby connecting floor space passageways are formed connecting said ramps.

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1,694,310. COMBINED BUTTON AND LICENSE PAPER HOLDER. HENRY E. BUTLER, Scotia, N. Y. Filed June 30, 1927. Serial No. 202,513. 1 Claim. (Cl. 40—10.)



A combined license button and license paper holder comprising a front wall which embodies as a part of its structure a license button, walls including a rear wall formed integral with said front wall and providing therewith a pocket adapted to receive a license paper, said rear wall forming a cover for the pocket and the integral connection between the front and rear walls forming a hinge for the cover, catch means for releasably fastening the cover in closed position, and means carried by the rear wall for attaching the structure to a garment.

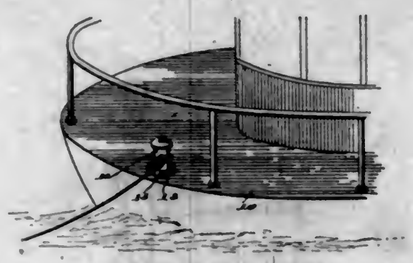
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1,694,311. PISTON RING. FREDERICK ELBERT CLARK, Albert Park, Victoria, Australia, assignor to Frances Ida Schilling, Brighton Beach, Victoria, Australia. Filed Dec. 2, 1926, Serial No. 152,166, and in Australia Jan. 22, 1926. 3 Claims. (Cl. 74—109.)



1. A piston ring composed of an expansible split annular outer member having a slip joint at one side, and an inner member formed from a flexible resilient strip initially bent into substantially U-shape with its ends relatively widely spaced apart and each limb of the U-shaped member being curved inward adjacent the free end thereof, said resilient member being so inserted in the outer members as to exert maximum pressure on the outer member at points approximately diametrically opposite the slip joint in the outer member.

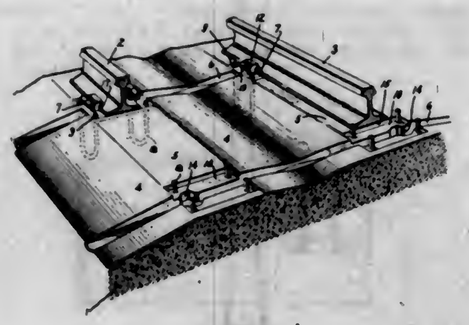
1,694,312. BITT. JAMES HENRY CLARK, Miami, Fla. Filed Mar. 9, 1928. Serial No. 260,321. 1 Claim. (Cl. 114—218.)



A bitt comprising a body having an elongated transverse passage therethrough, said body having laterally projecting flanges at the opposite ends thereof, one of the flanges being provided with means for attaching the body to a fixed support, the passage being elliptical in cross section, the side walls of the passage presenting substantially extensive flat portions to a rope threaded through the passage, the material of the body member at the opposite ends of the passage being rounded where the rope engages the body member adjacent the opposite ends of the passage.

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1,694,313. RAILWAY ROADBED. WILLIAM DALTON, Glenville, N. Y. Filed Mar. 22, 1928. Serial No. 263,763. 3 Claims. (Cl. 238—7.)



1. A railway roadbed formed from concrete, said roadbed having ridges for supporting track rails and being provided with spaced transverse grooves, tie plates which span said grooves to render the ridges continuous, and means for anchoring the tie plates to the concrete roadbed, the top surface of the roadbed being sloping to drain water away from the ridges.

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1,694,314. GUIDE TRACK FOR SCREEN CONSTRUCTION. HARRY DIXSON, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa. Filed Feb. 19, 1927. Serial No. 169,555. 3 Claims. (Cl. 156—39.)

1. A guide track for a flexible roll screen having a tubular portion provided with a slot extending lengthwise thereof for receiving the side edge of the screen and allowing it to travel in the guide track as it is rolled up and down, the material of said tubular portion for a part of its length being spread apart a greater distance than the width of said slot defining thereby an enlarged opening, whereby if the side edge of the screen normally traveling



in said track is accidently withdrawn from the guide track, it may travel back into the guide track through said enlarged opening as the screen is rolled up.

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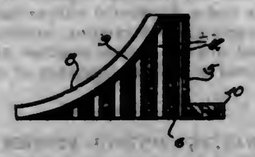
1,694,315. ARCH SUPPORT. WILLIAM F. DUNLOP, New York, N. Y. Filed Dec. 15, 1924. Serial No. 756,106. 1 Claim. (Cl. 36—71.)



An arch support for use in a shoe and being formed from a single piece of molded material possessed of resiliency, said support being longitudinally convexed at its upper side and longitudinally concaved at its underside, side flanges included in said support, a pendent ridge portion for said support with depressible portions at opposite sides of the ridge portion; the said ridge portion including a transverse ridge at a point intermediate the length of the arch and forwardly converging ridges at the forward portion of the arch.

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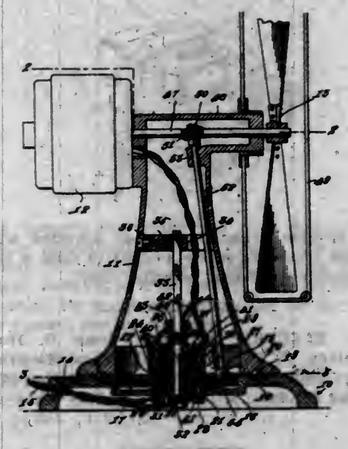
1,694,316. COMPOSITION CHOCK BLOCK. EDWARD S. EVANS, Detroit, Mich., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich., a Corporation of Delaware. Filed Apr. 18, 1927. Serial No. 184,709. 1 Claim. (Cl. 188—32.)



A molded composition chock block formed with a curved bearing face and having therein a plurality of vertical holes separated by partitions and extending upwardly from the lower face of the block, said holes being of gradually increasing height from one end of the block to the other end and terminating in an arcuate line concentric with the curved bearing face of the block.



1,694,317. ELECTRIC FAN. SAMUEL GOOD, Newton, Kans. Filed Oct. 11, 1926. Serial No. 140,940. 1 Claim. (Cl. 230—254.)



In a device of the character described, a base having a depressed central portion in its top, gear teeth formed on the vertical wall of the depressed portion, a hollow pedestal mounted for rotation upon said base, an elongated casing portion formed with the upper end of the pedestal, a motor carried by the pedestal and the elongated casing portion, said motor being disposed laterally of the pedestal and upon one end of the casing portion, a guard secured to the opposite end, a shaft included in the motor and longitudinally disposed through the casing portion, a fan on the shaft and arranged in the guard, superposed bearings projecting inwardly from the inner wall of the pedestal and disposed respectively at the top and bottom thereof, an inclined shaft arranged for rotation in the bearings, a gear on the lower end of the inclined shaft and meshing with the gear teeth, means on the shafts for transmitting rotation from the motor shaft to the inclined shaft, a transverse member arranged substantially centrally of the pedestal, a shaft detachably secured in said transverse member, cooperating contact members carried by the depressed portion and last mentioned shaft respectively, and means for electrically connecting one contact member to the motor and the other contact member to a source of electrical energy.

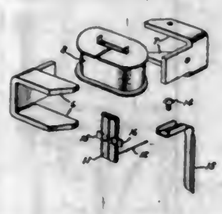
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1,694,318. ELECTRIC INDUCTION APPARATUS. HANS GRÜNHOLZ, Charlottenburg, Germany, assignor to General Electric Company, a Corporation of New York. Filed Jan. 13, 1928, Serial No. 246,454, and in Germany Jan. 15, 1927. 3 Claims. (Cl. 175—356.)



1. Electric induction apparatus comprising a magnetic core, and a winding on said core, said core having portions forming parallel paths of different magnetic reluctance for the magnetic flux, the core portion forming one of said parallel paths being laminated and provided with an air gap, and the core portion forming the other parallel path being substantially solid.

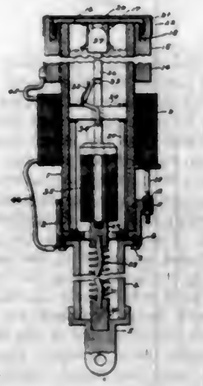
1,694,319. APPARATUS FOR PRODUCING SOUND. EMILE C. GUERDON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 18, 1927. Serial No. 206,408. 5 Claims. (Cl. 179—115.)



1. An integral armature member provided with opposed edges spaced from one another to form a slot and with outwardly extending mounting lugs.

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1,694,320. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 17, 1924. Serial No. 699,699. 4 Claims. (Cl. 200—106.)



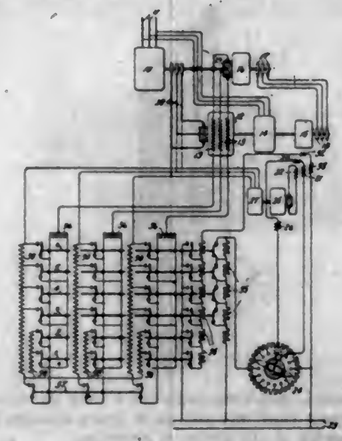
1. A switch of the character described comprising a tubular insulating supporting member containing an arc extinguishing liquid, a conducting ring at the upper end of said member having an annular groove in its upper face, a sealing liquid in said groove, a contact in said supporting member connected with said ring, a cooperating contact in said member adapted to be separated from said first member and submerged in said liquid, and a removable cover for said parts having a flange portion dipping into said sealing liquid.

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1,694,321. SPEED-CONTROL SYSTEM. JOHN I. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 17, 1927. Serial No. 169,074. 13 Claims. (Cl. 172—274.)

1. A speed control system for induction motors comprising, in combination with such a motor, a commutator regulating machine concatenated with said motor, an exciting winding for said regulating machine and exciting means for impressing an electromotive force on said winding having components suitable for balacing the resistance drop and the inductive drop in said winding, said means including a dynamo-electric machine which is driven at a speed directly proportional to the slip of said induction motor, which speed becomes zero at zero slip.

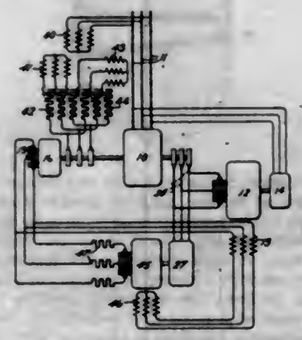
2. A speed control system for induction motors comprising, in combination with such a motor, a commutator regulating machine concatenated with said motor, an exciting winding for said regulating machine, and means for impressing an electromotive force upon the circuit of said exciting winding having a component for controlling the inductive drop therein, said means including a dynamo-



electric machine driven at a speed directly proportional to the slip of said motor, which speed becomes zero at zero slip.

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1,694,322. SPEED-CONTROL SYSTEM. JOHN I. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Feb. 17, 1927, Serial No. 169,074. Divided and this application filed Nov. 23, 1927. Serial No. 235,368. 4 Claims. (Cl. 172—274.)



4. An induction motor regulating system comprising an induction motor of the wound secondary type, a commutator regulating machine concatenated therewith, an exciting winding for said regulating machine and means for supplying excitation to said winding comprising a frequency changer for supplying a frequency equal to the slip frequency of said motor, a dynamo-electric machine having a commutated winding supplied from said frequency changer and a distributed alternating current stator winding supplying said exciting winding and means for driving said dynamo-electric machine at a speed directly proportional to the slip frequency of said induction motor.

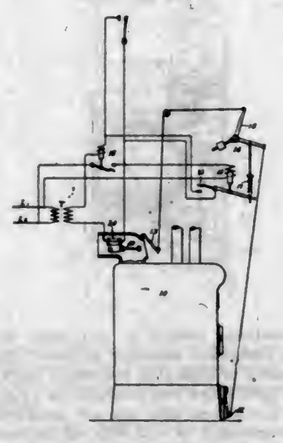
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1,694,323. HEATING CONTROL SYSTEM. GEORGE H. JUMP, Buffalo, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 15, 1927. Serial No. 175,597. 5 Claims. (Cl. 236—9.)

1. A heating control system comprising means for heating a medium, electroresponsive means arranged upon energization thereof to operate to increase the heating action of said heating means and upon deenergization



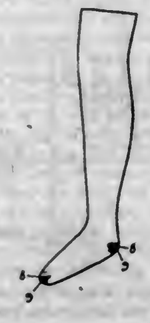
thereof to operate to decrease the heating action of said heating means, a pair of independently operable thermal responsive circuit controlling members, the first responsive to the temperature of the medium and the second responsive to the temperature of the heating means therefor, electrical connections jointly controlled by said thermal responsive circuit controlling members for establishing an energizing circuit for said electroresponsive regulating means to effect operation thereof to increase the



heating action of said heating means, and auxiliary switch mechanism arranged to be operated upon operation of the electroresponsive means to increase the heating action of said heating means for rendering the first thermal responsive member ineffective to interrupt the energizing circuit of said electroresponsive means and connecting the said energizing circuit of said electroresponsive regulating means to be interrupted exclusively by said second thermal responsive member for decreasing the heating action of the heating means.

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1,694,324. REENFORCED HOSIERY AND METHOD OF PRODUCING SAME. LOUIS KAPLAN, Astoria, N. Y. Filed Aug. 25, 1927. Serial No. 215,351. 4 Claims. (Cl. 2—241.)



1. The method of producing a reenforced article of hosiery consisting in first completing the article with an opening at a point where a hole usually occurs, then applying reenforcement to the article along the opposite edges of the opening, and then securing the edges of the opening together to close the opening.



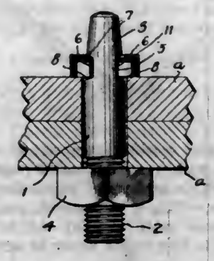
1,694,325. COSMETIC-PAD HOLDER. WILLIAM G. KENDALL, Newark, N. J. Filed Jan. 28, 1928. Serial No. 250,175. 9 Claims. (Cl. 132—82.)



1. A cosmetic pad holder and ring, comprising a substantially pan-shaped holder having an annular flat portion near the periphery, and a holding ring formed substantially Z-shaped in cross section, said ring being formed with means for yieldingly holding the flat portion of the holder against part of said ring.

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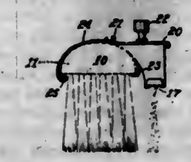
1,694,326. FITTING-UP BOLT DEVICE. EDWARD S. KLAUSNER, Owego, N. Y. Filed June 12, 1925. Serial No. 36,604. 1 Claim. (Cl. 85—1.)



A fitting-up bolt device, comprising a bolt threaded at one end and tapered at the opposite end, the base of the tapered end portion being recessed to receive a wedge key, the recesses being in opposite sides of the bolt with their vertical walls formed of planes, lines lying in said planes and in a plane passing through the axis of the bolt being parallel to each other, said walls being relatively divergent in horizontal plane, the upper walls of the recesses inclining in the direction of divergence of the vertical walls, and the lower walls being convergent with the upper walls and inclined downwardly and outwardly from the vertical walls, and a wedge key having divergent leg portions and their upper surfaces inclined downwardly in the direction of leg divergence, the lower surfaces of the legs being parallel to the horizontal plane of the key, whereby the divergent leg portions and inclined upper surfaces wedgingly cooperate with the similar vertical and upper walls of the recesses, while the horizontal lower surfaces of the legs bear on the plates with which the bolt cooperates.

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1,694,327. FLOOR-BRUSH ATTACHMENT. HERMAN KLINGENBERG, Fitchburg, Mass. Filed Apr. 6, 1928. Serial No. 268,018. 3 Claims. (Cl. 15—131.)

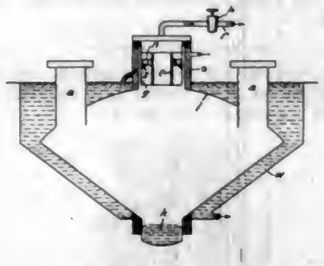


1. In an attachment for a floor brush, the combination with a hopper for receiving a sweeping compound, said

hopper being detachably mounted to the back of the brush and positioned to dispense said compound in advance of the brush, said hopper having a bottom provided with a series of perforations and with a pair of guides located horizontally but spaced from the bottom below it, of a valve slidably located between the guides and the bottom and having a series of perforations so located that when the slide is forced in as far as it can be the perforations in the slide and bottom will be out of registration, the slide having a projection at one end for manipulating it and a stop at the other end for stopping it with the perforations in wide open position.

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1,694,328. MERCURY RECTIFIER. CHRISTIAN KRÄMER, Pankow, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 24, 1926, Serial No. 104,461, and in Germany May 9, 1925. 4 Claims. (Cl. 250—27.5.)



2. A mercury arc rectifier comprising an anode and cathode mounted within an evacuated vessel, and a receptacle located within said vessel and interconnected with said vessel for supporting a hygroscopic material and provided with a porous wall whereby mercury is excluded from said receptacle and water vapor is admitted thereto.

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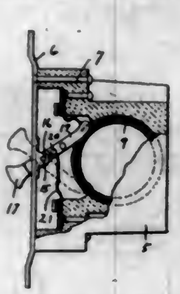
1,694,329. ROTARY PUMP. JOHN E. LE BUS, Electra, Tex., assignor of one-sixth to William Calvert, one-sixth to J. H. Howell, one-sixth to L. D. Embry, one-sixth to Gus M. Hamer, and one-sixth to A. L. Robb. Filed Oct. 11, 1927. Serial No. 225,509. 11 Claims. (Cl. 103—188.)



1. A pump comprising a tubular body, a pump cylinder in the body and supported by said body, a working barrel mounted for rotation in the body, a mandrel adapted to be rotated by the barrel, means for causing reciprocation of the mandrel when the same is rotated, a plunger connected with the mandrel, and a valve for controlling the flow of liquid to the cylinder, said mandrel and plunger each being provided with a passage for pumped liquid.

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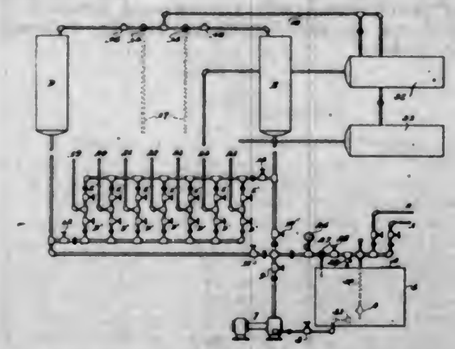
1,694,330. RESISTANCE SWITCH. OSCAR LUNDBERG, San Diego, Calif. Filed Dec. 15, 1927. Serial No. 240,165. 2 Claims. (Cl. 201—48.)



1. In a resistance switch of the class described, a switch box, a resistance assembly mounted therein comprising a plurality of insulated resistance units connected in series with each other and arranged in cylindrical formation about a common axis, contact members for each of said units arranged at one side of the mounting in spaced relation with each other, one of said units being connected with a feed wire an attaching plate for the box and a switch arm pivotally mounted on said plate having a circuit wire connecting therewith for communication with an electrical appliance and adapted for selective engagement with said contact.

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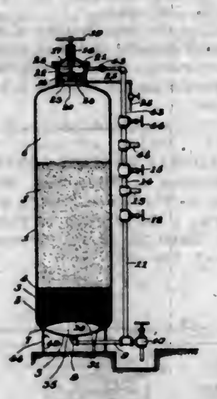
1,694,331. GRAVITY SYSTEM FOR CONTINUOUSLY TREATING BOILER WATER. CHESTER THOMAS MCGILL, Elgin, Ill., assignor to Reiter Co., Elgin, Ill., a Corporation of Illinois. Filed Apr. 6, 1925. Serial No. 21,187. 6 Claims. (Cl. 210—33.)



1. A gravity pressure system for continuously treating boiler water while the boiler is in operation, consisting of gravity pressure tanks containing chemicalized liquid treatment, and means for admitting treatment of any desired chemical combination from the tanks to the boiler, consisting of controls for regulating the amount of liquid from each tank, thereby adapted to adjustment for the required degree of hardness in the boiler water, and means for admitting required percentage of chemicalized liquid from gravity pressure tank.



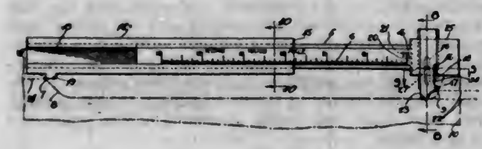
1,694,332. BASE-EXCHANGE WATER SOFTENER, SALT-POT ATTACHMENT. CHESTER T. MCGILL, Elgin, Ill., assignor to Reiter Company, Elgin, Ill., a Corporation of Illinois. Filed Nov. 19, 1925. Serial No. 70,154. 15 Claims. (Cl. 210—24.)



1. In a water softener having a fill nozzle attachment, the fill nozzle serving as a soft water outlet, a removable filter within the fill nozzle for the purpose of filtering the softened water.

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1,694,333. JOURNAL-LENGTH GAUGE. WARD N. MESSIMER, Jersey Shore, Pa. Filed Dec. 23, 1927. Serial No. 242,164. 5 Claims. (Cl. 33—193.)

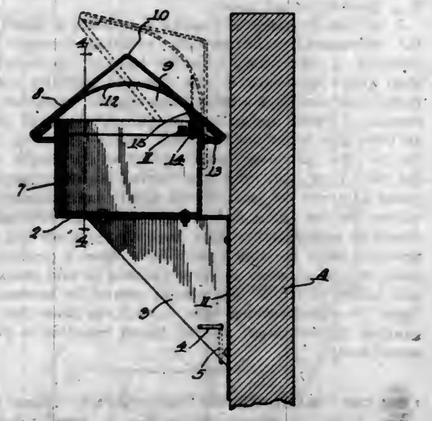


1. A journal length gauge for axles comprising an extensible rule composed of a pair of slidably connected members adapted to be engaged at their outer ends against the journal and dust guard collars of the axle, a contact member on one member of the rule adjacent but inwardly of the outer end of the latter, said contact member being of a predetermined length to engage the journal fillet at a predetermined point inwardly of the periphery of the dust guard collar, and a contact finger adjustable transversely of the other member of the rule and mounted adjacent but inwardly of the outer end thereof, said contact finger being adapted to be engaged at one end with the journal bearing surface and having a lateral contact member at a predetermined distance from its said end to engage the inner side of the journal collar at a point a given distance outwardly of said journal bearing surface, one of said rule members being graduated to coact with the inner end of the other rule member for indicating the distance between the points on the journal collar and the journal fillet of a new axle engaged by said contact members.

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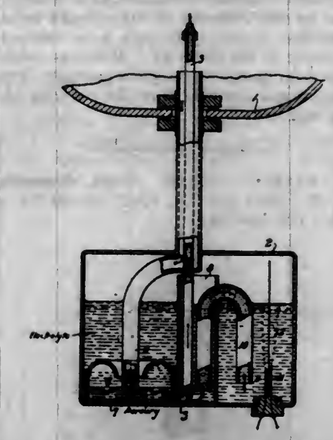
1,694,334. MAIL BOX. GEORGE G. MIRLACH, Beaver Dam, Wis. Filed Aug. 11, 1924. Serial No. 731,421. 1 Claim. (Cl. 232—33.)

The combination with a mail box, of a cover having its front and back portions inclined upwardly to provide a longitudinal ridge and an interior longitudinally extended angle portion, said cover being mounted to swing open to expose said angle portion, and an arcuate strip secured at its ends to opposed edge portions of the cover and arranged beneath and bridging said angle portion thereby to provide a newspaper receiving space or holder between the strip and the angle portion of the cover.



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1,694,335. MEANS FOR AUTOMATICALLY DISCHARGING LIQUIDS FROM CHAMBERS, AUTOMATIC FOUNTAINS, AND THE LIKE DEVICES. GEORGE MURRAY and VICTOR OWEN SIMPKINS, London, England. Filed Dec. 20, 1927, Serial No. 241,335, and in Great Britain Dec. 18, 1926. 7 Claims. (Cl. 299—6.)



1. In combination, a chamber adapted to contain a liquid, means for substantially continuously creating gas pressure in the chamber, a pipe leading from the chamber through which the liquid is discharged by said gas pressure, inlet means having a valve means normally held closed by said gas pressure, said pipe serving to vent said gas pressure when the liquid level falls below a predetermined point in said chamber to allow opening of said valve means and inflow of liquid, and means for maintaining said pipe open for venting said gas pressure until the liquid level rises to a predetermined point in said chamber.

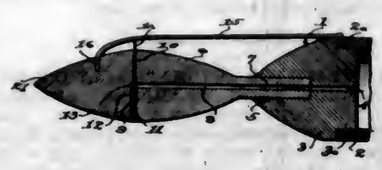
6. In combination, a chamber to contain a liquid, means for substantially continuously creating pressure in the chamber, means forming a passage for the discharge of the liquid from the chamber under said pressure and means for the return of the liquid to said chamber, said last

named means including a device functioning as a valve normally held against opening by said pressure, and means serving to vent said pressure when the liquid level falls to a predetermined extent and until the liquid level rises to a predetermined point.

7. In combination, a chamber to contain a liquid, means for substantially continuously creating pressure in the chamber, a tube rising from the base of the chamber and open above said base, a pipe disposed with its lower end in the tube and open adjacent the base of the latter for discharge of liquid upwardly therethrough by said pressure, an inlet pipe arranged to receive discharged fluid, the discharge pipe extending for a portion of its length through the inlet pipe, said inlet pipe having an offset portion disposed adjacent the base of and within said chamber, check means for the lower end of said inlet pipe normally held closed by said pressure, said discharge pipe serving to vent pressure when the liquid level falls below a predetermined point in said chamber to allow opening of said check means and inflow of liquid, and siphon means for conveying the liquid to said discharge pipe to seal the same and be discharged therethrough on the liquid reaching a predetermined level.

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1,694,336. MANICURING IMPLEMENT. JOHN R. NEIDIG, Ollmont, Mont. Filed May 2, 1928. Serial No. 274,566. 5 Claims. (Cl. 132—73.)



1. A manicure implement comprising a reservoir, a tip seat carried by said reservoir, a tip mounted in said seat, said tip and seat having registering bores communicating with the interior of the reservoir, a discharge conduit leading from the bore in said tip, a valve normally closing said conduit, and means operable from the exterior of the tip for opening said valve.

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1,694,337. SAFETY RAZOR. JACOB OBERHEIM, New York, N. Y. Filed Dec. 24, 1927. Serial No. 242,373. 3 Claims. (Cl. 30—12.)



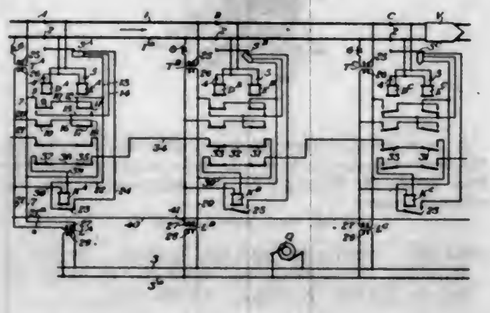
1. In a safety razor, blade clamping members, a pair of spaced lugs on each clamping member, each of said lugs having a slot shaped hole, a pivot extending transversely of the lugs on both clamping members in said slot shaped holes respectively in the lugs to allow the clamping members to have pivotal movement, and also movement toward and away from each other, and means acting on the pivot and the lugs to maintain the clamping members in clamping relationship.

1,694,338. PROCESS FOR THE MANUFACTURE OF ALUMINOUS CEMENTS. LOUIS GABRIEL PATROUILLEAU, Paris, France, assignor to Societe Alumine et Derives, Paris, France, a Joint Stock Company organized under the laws of the Republic of France. Filed Aug. 10, 1925, Serial No. 49,456, and in France Dec. 19, 1924. 5 Claims. (Cl. 106—25.)

1. A process for the manufacture of aluminous cements from a mixture of bauxite and lime, comprising adding to the mixture compounds of sulphur capable of releasing sulphurous anhydride when the mixture is heated and in heating said mixture.

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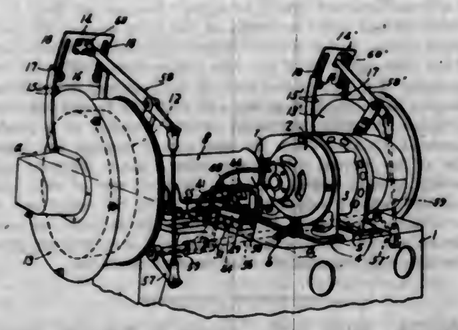
1,694,339. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. HOWARD A. THOMPSON, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 5, 1926, Serial No. 86,306. Renewed Apr. 25, 1928. 6 Claims. (Cl. 246—34.)



1. In combination, a section of railway track, a source of alternating current constantly connected with the rails of said section, two relays connected with the rails of said section, asymmetrical units associated with said relays for permitting current of one polarity but not of the other to pass through one relay and for permitting current of the other polarity but not of the first polarity to pass through the other relay, and traffic governing means controlled by said relays.

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1,694,340. GRINDING MACHINE. HERMON G. WEINLAND, Springfield, Ohio, assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio, a Corporation of Ohio. Filed July 11, 1927. Serial No. 204,839. 23 Claims. (Cl. 51—165.)



1. In a grinding machine, a grinding wheel, a constant speed motor for driving said wheel, and means controlled by the size of said wheel to prevent operation of the wheel at peripheral speeds other than predetermined speeds.

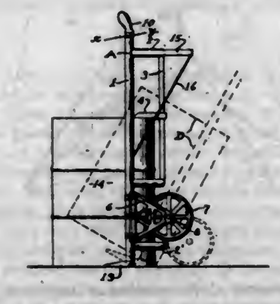


1,694,341. MAGNESIUM COMPOUND AND PROCESS OF PRODUCING THE SAME. FRANK CROSSLEY, Cleveland, Ohio, assignor to James E. Plant, Cleveland, Ohio. Filed Jan. 6, 1927. Serial No. 159,505. 4 Claims. (Cl. 167—7.)

3. A wafer or tablet consisting of dried pure prepared precipitated hydrate of magnesia mixed with cornstarch and sugar in proportions to constitute a binder and having flavoring oils incorporated therewith and of a consistency to form a relatively smooth paste when subjected to water or saliva.

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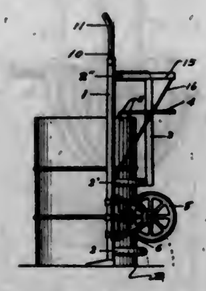
1,694,342. TRUCK. CARL KLEIN, Wichita, Kans. Filed Sept. 3, 1926. Serial No. 133,468. 2 Claims. (Cl. 280—57.)



1. In a mechanism of the kind described, a truck having a frame with tubular side arm members and arcuate cross members to receive and support a barrel, a bar member carried by the arcuate members of the frame, and a hook member to slidably and rockably engage on the bar member, the hook to engage with the chime of a barrel to rock the same rearward with the truck, a shaft rotatably engaging in each of the side arm members, a toe member laterally extending and integrally connected to the front end of each of the shafts, a curved portion at the opposite end of each of the shafts functioning as handles and turning means for the shafts to rock the toes beneath the chime of a barrel as it is rocked rearward.

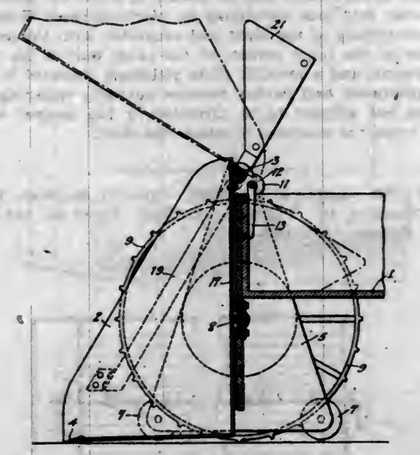
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1,694,343. TRUCK. CARL KLEIN, Wichita, Kans. Filed Apr. 29, 1927. Serial No. 187,535. 9 Claims. (Cl. 280—57.)



6. In a device of the class described, a truck having a frame and supporting wheels, members journaled longitudinally of the frame at the sides of the truck for independent rotary movement, having angularly projecting toe members at their lower ends and handle members at their upper ends whereby the truck may be directed and the toe members controlled.

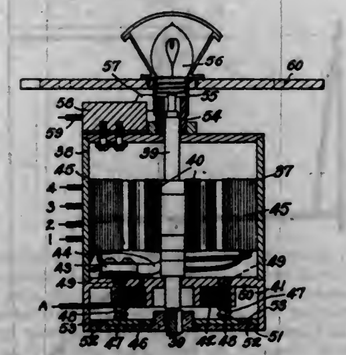
1,694,344. LOADER. JOSEPH J. KOELBEL, Baldwin, N. Y. Filed Feb. 24, 1928. Serial No. 256,636. 6 Claims. (Cl. 214—77.)



1. A loader for trucks and the like, comprising a body, means for disengageably connecting the body with the body of a truck, a pair of traction wheels carried by the body, a scoop pivotally mounted on the body, a pair of arms connected with each of the traction wheels, a link pivotally connected with each of the arms and pivotally connected with the scoop, and means associated with the traction wheels and arms for causing the arms to function to swing the scoop upwardly and then downwardly as the truck moves the loader forwardly and rearwardly.

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1,694,345. SIGNAL DEVICE FOR AUTOMOBILES. HENRI LOUIS LE BLANC and HECTOR BEAUDOIN, East Angus, Quebec, Canada, assignors of one-third to Ernest Leon Lessard, Disraeli, Quebec, Canada. Filed June 18, 1923. Serial No. 646,216. 2 Claims. (Cl. 177—327.)

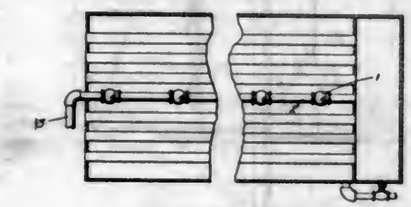


1. A direction-signal mechanism comprising a casing, a shaft journalled for rotary movement therein, a compartment at one end of the casing, the outer wall of which is carried by the shaft, an indicator exterior of the other end of the casing and connected to rotate with the shaft, a

motor within the casing for rotating said shaft to move the indicator into any selected one of a plurality of different predetermined positions, and a lock operating automatically to hold said shaft against operation while the motor is stationary and to release it when the motor is started, said lock embodying an electro-magnet arranged concentrically of the shaft and connected with the motor, studs on the inner surface of the outer wall of the compartment, and a metallic plate yieldingly mounted in the compartment and having recesses normally engaging the studs but adapted to be attracted by the magnet when the magnet is energized to release the shaft.

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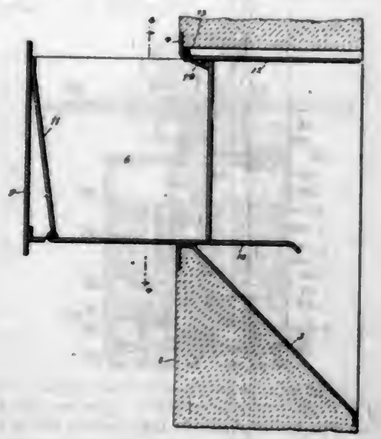
1,694,346. BOILER WASHER. SAMUEL RADWAY, West Frankfort, Ill. Filed Dec. 1, 1926. Serial No. 151,967. 3 Claims. (Cl. 122—405.)



1. The combination with a boiler, of a washing device comprising a tubular member horizontally disposed in said boiler in spaced relation to the walls thereof, said member closed at one end and connected to a supply of cleaning fluid at its opposite end, said member being provided with circumferentially and axially spaced ports arranged to discharge in a generally forward and spiral direction with respect to said member, whereby to induce a rotational movement of the cleaning fluid within the boiler.

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1,694,347. INLET BOX. HAROLD D. SYMONDS and HARRY J. CULLEN, New York, N. Y. Filed June 2, 1927. Serial No. 196,069. 4 Claims. (Cl. 193—34.)



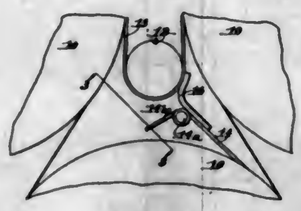
1. An inlet box for chutes, including a receptacle, a hinged bottom on the receptacle, a hinged cover independent of the receptacle but adapted to close the top thereof when the latter is in normal position, and a catch on said cover limiting the outward movement of the box.

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1,694,348. [WITHDRAWN.]

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1,694,349. APPARATUS FOR CONTROLLING THE DRYING OPERATION IN PAPER MACHINES. GEORGE S. WITHAM, Jr., Hudson Falls, N. Y. Filed Apr. 2, 1928. Serial No. 266,777. 4 Claims. (Cl. 34—48.)



1. In apparatus of the character described, having two rows of drying rolls in staggered relation, wherein a web of paper passes alternately over a roll of each row, a felt roll between adjoining rolls of one row and opposite a roll of the other row and a doctor disposed between the felt roll and the last mentioned roll and bearing on the latter, the combination with the doctor, of a sheet of flexible material attached to the doctor and bearing upon the felt roll, whereby the doctor and the sheet form a partition connecting the felt roll and the drying roll upon which the doctor bears.

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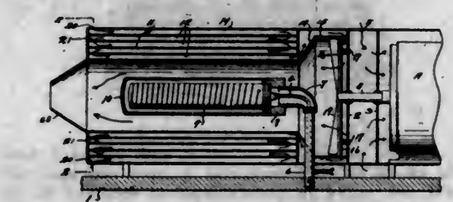
1,694,350. WHEEL FOR DRILLING-RIG STRUCTURES. RICHARD R. BLOSS, Columbus, Ohio, assignor to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 25, 1925, Serial No. 25,910. Renewed Apr. 7, 1928. 3 Claims. (Cl. 64—17.)



1. In a tug wheel structure, a rim having a corrugated surface, the sides of which are bent inwardly toward the axis of the wheel, and a projecting member having a portion adjacent the bent sides of said rim bent outwardly in a diverging manner, the bent sides of said rim and the outwardly diverging portion of said projecting member providing a smooth surface to a tug rope when in contact therewith.



1,694,351. AIR HEATER. WILBER L. LONG, Kirksville, Mo., assignor of one-fourth to William P. Blake, one-fourth to William T. Minor, one-eighth to William E. Davis, and one-eighth to Jacob M. Wattenbarger, Kirksville, Mo. Filed Feb. 28, 1928. Serial No. 257,705. 5 Claims. (Cl. 219—39.)



1. An air heater of the class described comprising an elongated tubular member having one end closed and its opposite end open, a blast fan positioned within said member at the closed end portion thereof, means for driving said fan, a series of spaced nested members positioned within the open end portion of the first named member in advance of the fan and providing chambers therebetween, the ends of said chambers, with the exception of the inner chamber, being closed, the rear end of the innermost chamber discharging rearwardly of the fan, the peripheral wall of the first named member having openings at its outer portion affording communication between the atmosphere and the outer chamber, the remaining chambers being alternately in communication one with the other, and a heating unit arranged within the open end portion of the first named member at a point substantially axial of the nested members.

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1,694,352. RADIATOR. DANIEL T. MACLEOD, Racine, Wis., assignor to Perfex Corporation, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1927. Serial No. 186,306. 8 Claims. (Cl. 257—130.)



4. In a heat interchanger, a pair of core sections disposed one behind the other relatively to the direction of air flow, top and bottom header means therefor, an intake for one of said sections adjacent an upper corner, an intake for said other section adjacent the opposite upper corner, an outlet for said first mentioned section adjacent the corner diagonally opposite from its intake, an outlet for said second mentioned section adjacent the corner diagonally opposite its intake, and means providing communication between the two core sections.

1,694,353. ARCH-SUPPORTING DEVICE FOR BOOTS AND SHOES. MATIE C. MESSLER, Providence, R. I., assignor to Madge Messler, Providence, R. I. Filed May 7, 1926. Serial No. 107,374. 5 Claims. (Cl. 36—71.)



1. The combination with a boot or shoe provided with a split insole having its lower split portion sewed to the upper of the shoe and having its upper split portion anchored at its front end to the fore part near the ball of the shoe and having its rear portion free from the lower split portion to move lengthwise of the shoe, of a cushioning member affixed to said upper split portion to move as one piece therewith and capable of being arched.

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1,694,354. SHIPPING DRUM. CHARLES H. ROLLASON, Wheeling W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a Corporation of Delaware. Filed Oct. 13, 1927. Serial No. 225,908. 3 Claims. (Cl. 220—61.)



1. A sealing device for use with receptacles having seats of substantially C-form in cross-section and having covers provided with flanges engaged in said seats, comprising a split ring having a vertical portion and a horizontal portion which latter engages on top of the flange and against the top wall of the seat, and an integral metal strap formed independent of the ring and having each of its ends rigidly affixed to the respective ends of the ring and having a central portion bowed toward the center of the ring and bridging the space between the ring ends, said strap being formed of malleable material so as to cause same to be flattened against the ring to expand the latter by the delivery of blows against the bowed portion of the strap.

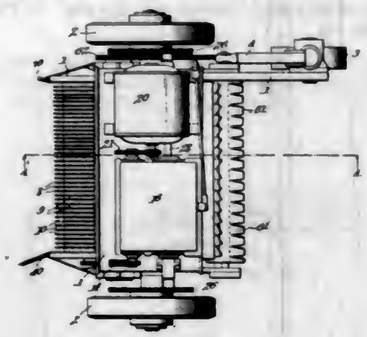
1,694,355. MACHINE FOR PREPARATION OF MOLDER'S SAND. GEORGE F. ROYER, Wilkes-Barre, Pa., assignor to Royer Foundry & Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Sept. 3, 1925. Serial No. 54,304. 10 Claims. (Cl. 259—144.)



1. A machine of the class specified comprising a wheeled vehicle, a travelling material treating belt supported on the vehicle and operative to project the material to a distance from its rear end, and means supported on the vehicle at points entirely above the horizontal planes in which the belt operates for lifting material to be treated to the belt from the floor on which the vehicle travels.

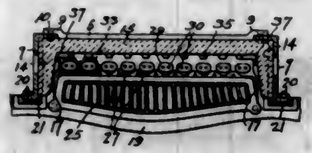
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1,694,356. SAND COLLECTING AND TREATING MACHINE. GEORGE F. ROYER, Wilkes-Barre, Pa., assignor to Royer Foundry & Machine Co., Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1927. Serial No. 173,754. 15 Claims. (Cl. 22—89.)



1. In a machine for lifting mixed moulders' sand and scrap metal from a foundry floor and separating the scrap and sand, the combination of a wheeled supporting frame, a material collecting and separating drum supported in said frame and provided with a series of annular, peripheral, pockets, means for positively rotating said drum as it is advanced by the wheeled frame into a pile of material to be treated, whereby as the drum is forced into a pile of material to be treated by movement of the wheel supported frame particles of sand will be collected in said pockets and carried upward and rearward, and means, located in rear of the vertical plane including the axis of the drum, for discharging the contents of the pockets.

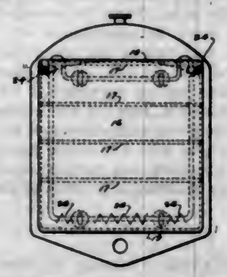
1,694,357. GAS HEATER. ALEXANDER B. SHARP, Steubenville, Ohio, assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio, a Corporation of Ohio. Filed Jan. 8, 1925. Serial No. 376. 3 Claims. (Cl. 126—92.)



1. A stove comprising end walls each having a horizontal rib, a backwall supported at each end upon one of said ribs, and a tie plate secured at each end to one of said end walls for holding them in assembled relation.

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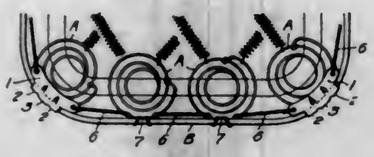
1,694,358. RADIATOR-FRONT COVER. MAURICE SWITZER, New York, N. Y., assignor to Max G. Scheuber, New York, N. Y. Filed June 3, 1927. Serial No. 196,274. 2 Claims. (Cl. 257—132.)



2. An automobile radiator cover support, comprising a rectangular frame characterized by parallel marginal cover attaching rods, an end of each of which is looped downwardly to form a cross connection therebetween, a second cross connection joining the opposite extremities of said rods, and slidably adjustable attaching bolts on a plurality of said cross connections.

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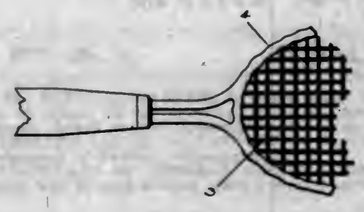
1,694,359. SPRING CUSHION AND THE LIKE. CHARLES P. TRIMBLE, Pittsburgh, Pa., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1925. Serial No. 78,009. 6 Claims. (Cl. 5—260.)



1. The combination with a cushion seat or the like having a frame and coiled springs secured thereto, of a plurality of spaced clip members having substantially flat body portions with means integral therewith for encircling the frame and a convolution of a coiled spring located adjacent thereto, together with means for tying said members together, the tying means comprising a wire having opposite ends secured to ends of the clip members and provided at intervals between said secured ends with hooked portions arranged to encircle the frame and a convolution of an adjacent coil spring, the wire being located substantially inside said border frame.



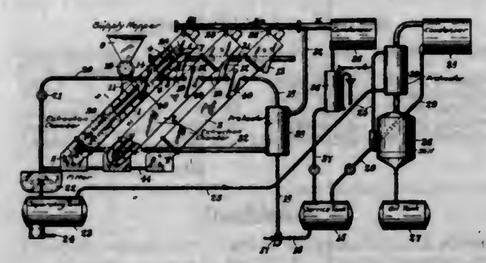
1,694,360. ELASTIC METAL STRINGING AND METHOD OF MAKING THE SAME. WILLIAM A. LARNED, Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Original application filed Feb. 13, 1922, Serial No. 536,135, and in France Mar. 20, 1922. Divided and this application filed May 22, 1922. Serial No. 562,718. 7 Claims. (Cl. 29—173.)



1. An elastic metal stringing comprising a number of wires that are first wound to form a helix of a number of coils per inch, and thereafter extended in the direction of the axis of said coils to reduce the number of the latter per inch to give to the stringing the degree of stiffness, weight and elasticity required for the use to which it is put.

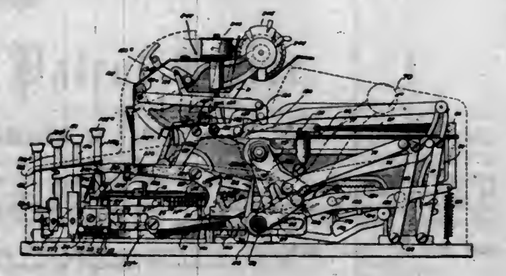
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1,694,361. APPARATUS FOR EXTRACTION OF WATER, OIL, AND FATTY MATTER FROM SOLID MATERIAL. JOHN ROBERT STERLING, London, England. Filed Mar. 8, 1928, Serial No. 260,115, and in Great Britain Nov. 8, 1926. 1 Claim. (Cl. 87—6.)



Apparatus for carrying out an extraction process of the type described comprising in combination a series of elongated extraction chambers each subdivided into substantially parallel compartments, a plurality of endless conveyors located respectively within the aforesaid extraction chambers and having the two runs of each conveyor arranged to traverse the two compartments aforesaid of each extraction chamber, means to supply the material to be treated to the first chamber of the series, means communicating between the chambers for the conveyance of the material from chamber to chamber throughout the series, means for supplying each chamber with a liquid-extracting medium, a plurality of heating jackets associated respectively with the several extraction chambers, means for conveying a gaseous heating medium through the jackets aforesaid, a preheater for the liquid extracting medium, and means for supplying the exhaust heating medium from the jackets aforesaid to said preheater.

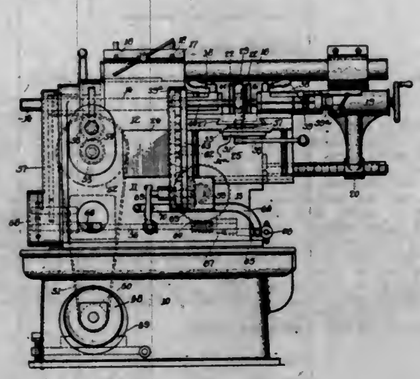
1,694,362. ADDING AND LISTING MACHINE. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del., a Corporation of Delaware. Filed Sept. 28, 1922. Serial No. 591,037. 10 Claims. (Cl. 101—93.)



1. In an adding machine, a plurality of type bars mounted for up and down movement, a hammer for each of said bars, a rock shaft, a plurality of type bar elevators operable in the movement of the rock shaft in one direction to raise said type bars, and means operable in the movement of the rock shaft in the opposite direction to release said hammers and drive the type to print, the last mentioned means comprising a member engaging the hammers, a pivoted member operatively connected with said hammer-engaging member, and a part movable with said elevators into engagement with said pivoted member and adapted to swing it in one direction only.

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1,694,363. MACHINE TOOL. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Sundstrand Machine Tool Co., Rockford, Ill., a Corporation of Illinois. Filed June 25, 1924. Serial No. 722,242. 9 Claims. (Cl. 90—11.)



1. The combination of a bed and an upright column having a headstock at its upper end with a spindle journalled in the headstock, a feed shaft mounted in the lower end of the column in substantially parallel relation to the ond power transmission having one end operatively conspindle, means for driving the spindle, a power transmission connecting the spindle and said feed shaft, a fixture mounted on the forward side of the bed, a slide on said fixture movable toward and from the axis of the spindle, a shaft to be driven mounted on said slide, a secnected with said shaft to be driven and its other end operatively connected with said feed shaft, and a housing supported from the slide and enclosing said second transmission.

Patents Nos. 1,694,364 to 1,695,263.

# THE OFFICIAL GAZETTE
OF THE
# United States Patent Office.

Vol. 377—No. 2. TUESDAY, DECEMBER 11, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.
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## Issue of December 11, 1928.

| | | | | |
|---|---|---|---|---|
| Trade-Marks | 343 | No. 280,379 to No. | 280,726, | inclusive. |
| T. M. Renewals | 23 | | | |
| Labels | 40 | No. 33,661 to No. | 33,690, | inclusive. |
| Prints | 10 | No. 11,371 to No. | 11,380, | inclusive. |
| Reissues | 9 | No. 17,139 to No. | 17,164, | inclusive. |
| Designs | 69 | No. 77,144 to No. | 77,212, | inclusive. |
| Patents | 920 | No. 1,694,364 to No. | 1,695,263, | inclusive. |
| Total | 1,439 | | | |

## Disclaimers.

1,592,489.—*Eugene O. Herthel*, Chicago, Ill., and *Edward W. Isom*, Locust Valley, N. Y. Art of Cracking Hydrocarbons. Patent dated July 13, 1926. Disclaimer filed November 23, 1928, by the assignee, *Sinclair Refining Company*.

Hereby enters this disclaimer to the method of said claims 1, 2, 7, 8, 9, and 10 except as applied to the separation from oil recirculated from the bulk supply tank through the heater of constituents vaporizable under the conditions of temperature and pressure prevailing in the bulk supply tank, and to the apparatus of said claims 11, 15, 16, and 18 except such apparatus in which the hot oil products from the heater are discharged together through the same circulating connections from the heater to the bulk supply tank.

1,651,193.—*Arvon R. Ohlsholm*, East Orange, N. J. Vanity Case. Patent dated November 29, 1927. Disclaimer filed November 14, 1928, by the *patentee*.

Hereby enters this disclaimer of that part of the claim in said specification which is in the following words, to wit: "with an outwardly projecting head at the junction of said vertical flange and bottom and formed integrally with said vertical flange and bottom."

## Adjudicated Patents.

(D. C. N. Y.) Miller patent, No. 945,570, for ice-cream freezers, claims 7, 8, 10, 11, 12, 20, and 21 *Held* valid and infringed. *H. H. Miller Industries Co.* v. *Emery Thompson Machine & Supply Co.*, 28 F. (2d) 420.

(D. C. Ill.) Kohler patent, No. 1,124,673, for apparatus for feeding paper to printing presses from series of rolls, *Held* valid and infringed. *Kohler* v. *Cline Electric Mfg. Co.*, 28 F. (2d) 405.

(D. C. N. Y.) Henderson patent, No. 1,270,519, for box for treating metallic articles by heat, claims 1 and 3 *Held* valid and infringed. *Driver-Harris Co.* v. *Hardite Metals*, 28 F. (2d) 413.

(D. C. N. Y.) Wappler patent, No. 1,371,404, for high-potential electric machines, claims 4 and 5 *Held* invalid. *Wappler Electric Co.* v. *Bronx Hospital and Dispensary*, 28 F. (2d) 419.

## Interference Notice.

U. S. Patent Office, *Washington, Nov. 21, 1928.*

*Chas. Anderson, his assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Limoneira Company, Santa Paula, Calif., for registration of a trade-mark and trade-mark registered December 11, 1928, No. 177,148, to Chas. Anderson, Wasco, Calif., and a notice of such declaration sent by registered mail to said Chas. Anderson at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. Anderson, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Notice of Cancellation.

U. S. Patent Office, *Washington, Dec. 1, 1928.*

*Apex Steel Corporation, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Apex Steel Corporation, of 50 Church Street, New York, N. Y., No. 126,986, dated October 21, 1919, and the notice of such proceeding sent by registered mail to the said Apex Steel Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Apex Steel Corporation, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications Under Examination at Close of Business November 30, 1928.

(Total number of applications awaiting action, excluding Trade-Mark Division, 100,623; Trade-Mark Division, 1,798. Oldest new case, Jan. 27, 1928; oldest amended, Jan. 27, 1928. The dates given are 1928.)

| Room No. | Divisions, Examiners, and Subjects of Inventions. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action |
|---|---|---|---|---|
| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Mar. 13 | Mar. 17 | 1,524 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Mar. 27 | Mar. 21 | 1,634 |
| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Mar. 26 | Apr. 4 | 1,297 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Mar. 16 | Mar. 9 | 1,465 |
| 106* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 21 | Feb. 21 | 1,461 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Feb. 2 | Feb. 22 | 2,537 |
| 106 | 7. JARBOE, C. G., Optics; Photography | Feb. 20 | Feb. 18 | 1,922 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 10 | May 8 | 1,552 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Apr. 19 | Apr. 9 | 1,769 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Mar. 10 | Mar. 26 | 1,705 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | May 26 | May 24 | 838 |
| 380 | 12. PIERCE, P. F., Machine Elements | Mar. 8 | Mar. 15 | 1,891 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Mar. 10 | Mar. 26 | 1,484 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Mar. 2 | Feb. 26 | 1,139 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Feb. 24 | Feb. 28 | 2,674 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 10 | Apr. 27 | 1,238 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Mar. 5 | Mar. 12 | 1,398 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Feb. 1 | Feb. 1 | 1,722 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Apr. 9 | Apr. 2 | 1,943 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking | May 21 | May 26 | 1,424 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Mar. 26 | Apr. 5 | 1,601 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Feb. 15 | Feb. 28 | 1,560 |
| 317 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Feb. 2 | Feb. 6 | 1,111 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Mar. 8 | Mar. 30 | 1,460 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | May 2 | 1,679 |
| 226* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Mar. 17 | Mar. 12 | 1,165 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 18 | Apr. 16 | 1,520 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 27 | Mar. 27 | 1,762 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Mar. 15 | Mar. 29 | 1,017 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Mar. 12 | June 5 | 1,485 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Mar. 7 | Mar. 9 | 2,074 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Feb. 11 | Feb. 15 | 2,070 |
| 152 | 33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | June 20 | June 26 | 1,930 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Feb. 9 | Feb. 27 | 1,331 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | May 28 | May 26 | 1,640 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring. | Apr. 2 | Mar. 30 | 2,115 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Feb. 13 | Feb. 4 | 2,393 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Apr. 9 | Apr. 13 | 1,923 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Feb. 20 | Feb. 20 | 1,897 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Feb. 27 | Apr. 13 | 2,761 |
| 125 | 41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 2 | Mar. 21 | 1,377 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Feb. 23 | Mar. 1 | 1,539 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Mar. 1 | Apr. 1 | 2,258 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Mar. 8 | Mar. 8 | 1,966 |
| 378 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Mar. 5 | Mar. 1 | 2,464 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 23 | Feb. 27 | 1,772 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 14 | Mar. 19 | 1,984 |
| 212* | 48. RORPKE, O. B., Electricity, General Applications | Mar. 12 | Mar. 10 | 1,826 |
| 230 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Apr. 20 | Apr. 18 | 1,411 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Mar. 15 | Mar. 26 | 2,531 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Feb. 29 | Feb. 29 | 2,235 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Apr. 2 | Apr. 3 | 2,273 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | May 17 | May 16 | 1,777 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Mar. 7 | Mar. 1 | 2,294 |
| 102 | 55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery | Mar. 18 | Mar. 19 | 745 |
| | {Designs | Oct. 31 | Nov. 11 | 478 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Feb. 1 | Feb. 1 | 2,430 |
| 257* | 57. NICOLSON, C. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Mar. 3 | Feb. 17 | 1,125 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Feb. 4 | Feb. 2 | 1,346 |
| 315 | 59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Jan. 27 | Jan. 27 | 2,857 |
| 213* | 60. GLASS, R. L., Electricity Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Feb. 20 | Mar. 3 | 1,680 |
| 269 | 61. PARKS, O. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 13 | Feb. 23 | 2,269 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Feb. 9 | Mar. 19 | 2,605 |
| 163 | Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks | Oct. 22 | Nov. 12 | 1,686 |
| | {Labels and Prints | Nov. 14 | Nov. 23 | 112 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decisions.

EX PARTE FISCHER.

*Decided May 28, 1928.*

PATENTABILITY—METHOD OF PREPARING AN EXPANSION JOINT COMPOSITION.

Claims for a method of preparing an expansion-joint composition *Held* patentable, since the method is new and productive of the desired result of imparting resiliency to the joint composition, so as to maintain a tight waterproof joint, and the process is not suggested by any of the references.

[This application has resulted in Patent No. 1,680,144.]

*Mr. Harry C. Alberts* for the applicant.

KINNAN, *First Assistant Commissioner:*

Applicant has appealed from the decision of the Examiners in Chief affirming that of the Examiner finally rejecting all the claims, four in number, of which the following is illustrative:

4. The method of preparing an expansion joint composition, which consists in mixing fibers and granules or pellets of a material having a cellular structure, with bituminous matter, while the latter is of a consistency below that at which it will saturate the cellular material.

The references are: Wallace, 1,107,782, August 18, 1914; Perry, 1,201,756, October 17, 1916; Perry, 1,288,159, December 17, 1918; Weiss, 1,334,061, March 16, 1920; Oliensis et al., 1,340,181, May 18, 1920.

Appellant's process relates to a method of preparing an expansion-joint composition comprising the steps enumerated in the illustrative claim. The composition produced by the process is molded into suitable form for disposition between concrete sections constituting a pavement, the purpose being to maintain a tight waterproof joint under all conditions of expansion and contraction due to temperature changes.

The claims have been rejected for inadequacy of disclosure of the process in the specification and as defining no invention over the prior art.

Appellant does not deny that the prior art discloses the process of mixing fibrous material with a bituminous binder to form an expansion joint. This is acknowledged at page 1 of his specification in the last two paragraphs, which clearly set out the disadvantages of using a mixture in which the fibrous material is saturated by the bituminous binder. Appellant's particular improvement over this admittedly old prior art is outlined at page 2 of his specification describing in the first paragraph the mixing of the fibrous matter in the mixture while the bituminous matrix is plastic and therefore lacking in penetration power. In the second paragraph of page 2 is described the result obtained from the process, namely that because of the unsaturated fibrous material the walls of the bituminous matrix can not adhere together upon compression and will therefore respond to expansion upon release of the compression or possess a resiliency lacking in the case where the fibrous material is saturated by the bituminous binder. It is believed that the portions of appellant's original specification referred to state the problem and the method proposed for its solution sufficiently clearly for one skilled in the art to practice the invention.

It is appellant's contention that none of the prior art patents mention the feature of keeping the bituminous binder from saturating the fibrous material. Appellant also contends that the references are from nonanalogous arts, since the patents considered below are directed to compositions which are primarily designed to accomplish a result foreign to that presented by appellant. The patent to Perry discloses a composition in which the filler is not saturated by the bituminous binder, and the patent to Oliensis et al. describes the mixing of fiber with semisolid asphalt. There is, however, no hint in these patents that the composition is useful as an expansion joint or that it was material for the purpose these patentees had in mind to produce a mixture which would be resilient or expand upon release of a compressing force. The patent to Weiss discloses a mixture of fibrous material and bituminous binder which it is stated may be used as a seal for cracks and joints. This patent, however, is silent as to whether the fibrous material is unsaturated, and so is no better as an anticipation of appellant's claims than the prior art acknowledged in his specification.

It is believed that appellant's claimed process for making an expansion-joint composition is not suggested by the references, and as the process is productive of the desirable result of imparting resiliency to the joint composition, so it may maintain a tight waterproof joint under all conditions of expansion and contraction due to temperature changes, it is considered the appealed claims are allowable over the art of record.

The decision of the Examiners in Chief is reversed.

---

EX PARTE GOTTLIEB.

*Decided July 30, 1928.*

TRADE-MARKS—GOODS OF THE SAME DESCRIPTIVE PROPERTIES—WATCHCASES AND WATCH MOVEMENTS.

Watch movements and parts thereof *Held* to be goods of the same descriptive properties as watchcases.

ON APPEAL.

Application for registration of trade-mark for watch movements and parts thereof filed January 29, 1925, Serial No. 208,809.

*Mr. Edward M. Evarts* for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiner of Trade-Marks denying registration under the act of March 19, 1920, of the word "Windsor," used upon watch movements and parts thereof, in view of registration No. 19,208, March 14, 1891, issued to the Brooklyn Watch Case Company, renewed in 1921 by Joseph Fahys & Co., assignee, for the same mark used upon watchcases. The Examiner deemed watchcases and watch movements as goods possessing the same descriptive properties, and con-

sequently the registration of the applicant's mark would be likely to cause confusion of origin of goods.

The applicant has set forth at considerable length the view that watchcases are made by different manufacturers from those making watch movements, both classes of goods being well recognized in the trade as having different origins, and that the mere fact they are finally assembled, the case being but the container of the watch movements, is persuasive that the goods do not possess the same descriptive properties, and confusion in trade would not be probable. While the Examiner noted that purchasers of watches, seeing the same mark on the case as upon the movement, would deem the parts manufactured or sold by the same parties, the applicant has urged the purchasers of watchcases are generally parties who assemble the movements in the cases and their familiarity with customs of trade and manufacture precludes confusion.

It is believed the applicant's contentions are without merit and that anyone purchasing a watch expects to and does obtain the complete article of which the case and the works form parts. Such a purchaser would certainly be confused as to origin if the same trade-mark appeared upon both the movements and the case. The association of these two parts, always sold to the final user assembled into a unitary structure, is certainly more intimate than were the goods in the case of *Aunt Jemima Mills Co. v. Rigney & Co.*, 247 F. 407. Following the usual rule, doubts should be resolved against the newcomer. *William Waltke & Co. v. Geo. H. Schafer & Co.*, 273 O. G. 630, 49 App. D. C. 254.

The decision of the Examiner of Trade-Marks is affirmed.

---

## EX PARTE PADE.

*Decided July 5, 1927.*

1. PATENTABILITY—INVENTION—PROVIDING A MACHINE WITH A CONVEYOR IS NOT.

"In the light of the present state of the art, no invention is involved in broadly providing any machine with a conveyor."

2. SAME—SAME—AGGREGATION.

Certain claims for an apparatus for the manufacturing of inner tubes *Held* unpatentable since they merely include various mechanisms to perform independent and unrelated operations on a tube with conveyors to carry the tube from one machine to another, each of which performs its function without regard to the presence or the absence of the other.

[This application has resulted in Patent No. 1,677,868.]

APPEAL from Examiners in Chief.

APPARATUS FOR MANUFACTURING INNER TUBES.

*Mr. Albert L. Ely* for appellant.

MOORE, *Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the decision of the Examiner finally rejecting claims 1 to 6, inclusive, and 9 to 24, inclusive.

The invention relates to an apparatus for manufacturing inner tubes. Claims 1, 3, and 10 are quoted as representative of the appealed claims:

1. An apparatus for the manufacture of tubes or similar articles of rubber, comprising an apparatus whereon the tubes are formed upon mandrels and a conveyor for removing the mandrels from the said apparatus.

3. An apparatus for the manufacture of tubes, a table whereon the tubes are rolled about a mandrel, a conveyor to carry the mandrel, a trackway leading from the table to a point in the path of the conveyor, and a wrapping lathe to which the conveyor delivers.

10. An apparatus for the manufacture of inner tubes, comprising tube forming apparatus for rolling tubes about a mandrel, wrapping lathes on which the tubes and mandrels are wrapped, heaters wherein the mandrels and tubes are placed for vulcanization, unwrapping machines where the cured tubes and mandrels are unwrapped, and transfer mechanism for moving the mandrel in a circuit through said machines in the order named.

The references are: Shaw, No. 758,805, May 3, 1904; Hinchman et al., No. 801,523, October 10, 1905; Reno, No. 1,018,586, February 27, 1912; Current, No. 1,179,077, April 11, 1916; Witsaman, No. 1,194,803, August 15, 1916; Fenton, No. 1,197,192, September 5, 1916; Moomy, No. 1,255,456, February 5, 1918; Ross, No. 1,282,294, October 22, 1918; Wattleworth, No. 1,320,812, November 4, 1919; Macbeth et al., No. 1,326,874, December 30, 1919.

In the art of manufacturing inner tubes, as the art is now practiced, certain operations are performed in sequence. The rubber sheet, after having been cut to the proper length and width, is rolled about a mandrel. The mandrel with the rubber sheet thereon is then wrapped with a fabric so as to hold the rubber sheet firmly in position. The next operation is that of vulcanization, after which the wrapping is removed, the tube stripped, and the mandrel returned for the initial operation in the formation of another tube. These several operations, respectively, are performed by machines conveniently arranged with respect to one another and with respect to the workmen. It is also common practice, as disclosed by the references, to provide carriers for conveying the mandrels between the stations at which the several operations are performed.

Witsaman shows a tube-rolling table. Fenton discloses a machine for rolling the rubber sheet upon the mandrel, said machine including a conveyor belt for conveying the mandrel with the inner tube thereon away from the place where the rolling operation takes place. Moomy discloses several machines conveniently arranged for performing the several operations prior to that of vulcanising the tube, the numeral 1 indicating a mandrel cleaning machine; 2, a cutting bench; 3, a tube-rolling bench; 4, a mandrel wrapping machine; and 16 a gravity conveyor. Ross, discloses an unwrapping machine. Current discloses machines for performing the rolling and wrapping operations; and the patents to Shaw, Wattleworth, and Macbeth et al. show continuously operating systems for the manufacture of tires, Shaw and Wattleworth disclosing conveyors of the hook type for conveying molds between stations.

The appealed claims are not confined to any particular structure of the machines for performing the several operations, but depend for their patentability upon the arrangement of said machines with respect to one another.

Claim 1 is drawn broadly to an apparatus on which the tubes are formed upon mandrels and a conveyor for removing the mandrels from the said apparatus. This claim stands rejected on Current or Fenton, the Examiners in Chief stating that patentability can not be predicated on the addition of a conveyor to the mechanism of either the Current or the Fenton patent.

[1] I find no error in the holding of the Examiners in Chief. In fact I am of the opinion that in the light of the present state of art no invention is involved in broadly providing any machine with a conveyor. Fenton, however, distinctly states that the conveyor belt 12 serves "as a conveyor belt, to carry the pole away," and that—

> the roller 8 may be located at any convenient distance from the rolling mechanism, its only purpose being to support and drive the belt 12.

Claim 2 includes, in addition to the subject matter of claim 1, a device for conducting the mandrel from the table to the conveyor.

In Fenton the conveyor belt performs two functions; it assists in the rolling operation and it also carries the mandrel away from the rolling mechanism. No invention would be involved in providing Fenton with an additional conveyor to cooperate with the belt 12.

[2] Claims 3, 9, 10, 11, 12, 13, 14 and 15 to 24, inclusive, stand rejected on the ground of aggregation, as the inclusion in a claim of various mechanisms to perform independent and unrelated operations on a tube with conveyors to carry the tubes from one mechanism to another does not set up a proper combination. Certainly there is no interdependence in action between the several machines in the production of a unitary result. Each performs its function without regard to the presence or absence of the others.

Claims 4, 5, and 6 stand rejected on the patent to Ross. The Examiners in Chief have pointed out wherein these claims fail to distinguish the invention in patentable respects from the Ross patent.

I am also of the opinion that these claims are not patentable in view of any modern tube-manufacturing plant in which is provided a table on which the mandrels are rolled, in view of the common use of conveyors of the hook type, tracks, stops, etc. In addition to the patent to Ross, reference may be made to the patent to Moomy in connection with these claims.

The decision of the Examiners in Chief is affirmed.

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## Court of Appeals of the District of Columbia.

IN RE OWEN.

*No. 3,892. Decided April 2, 1928.*

DESIGNS—PATENTABILITY.

A claim for a design patent for an electric-storage-battery container, the drawing of the application showing a plain rectangular receptacle with a handle projecting from the top of each end, *Held* unpatentable since handles were old and the mere substitution of applicant's handle, which differs little in design from those of the prior art, does not involve invention.

APPEAL from the Patent Office. Affirmed.

*Mr. Bernard F. Garvey* for Owen.

*Mr. T. A. Hostetler* for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a decision of the Patent Office refusing to allow appellant's application for a design patent in the form of an electric storage battery container.

The container is a plain, rectangular receptacle, with a handle projecting from the top of each end.

Section 4929, Revised Statutes, provides that—

> Any person who has invented any new, original, and ornamental design for an article of manufacture, not known or used by others in this country before his invention thereof, and not patented or described in any printed publication in this or any foreign country before his invention thereof, * * * may, upon payment of the fees required by law and other due proceedings had, * * * obtain a patent therefor.

To entitle one to a design patent, there must be "originality and beauty. Mere mechanical skill is insufficient." *Smith v. Whitman Saddle Co.*, 148 U. S. 674. See also *H. C. White Co. v. M. E. Converse & Sons Co.*, 20 F. (2d) 311.

As observed by the Commissioner, handles were old, and the mere substitution of applicant's handle, which differs little in design from the handles of the prior art, does not involve invention.

The decision is affirmed.

Affirmed.

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## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

782,496. (See 818,968.)

818,968, E. E. Johnson, Railway water column; 782,496, N. P. Fenner, jr., same, C. C. A., 7th Cir., Doc. 3934, *Fairbanks Morse & Co. et al. v. American Valve & Meter Co. et al.* Decree reversed with directions to dismiss Sept. 13, 1928.

1,025,170, C. D. Trussell, Loose-leaf binder; 1,104,394, same, Temporary binder; 1,523,500, same, Cover for loose-leaf binders, filed Sept. 28, 1928, D. C., E. D. N. Y., Doc. 3846, *Trussell Mfg. Co. v. Irving Pitt Mfg. Co.*

1,104,394. (See 1,025,170.)

1,112,824, C. Mettler, Holder for drinking cups, filed Oct. 29, 1928, D. C., S. D. N. Y., Doc. E 47/81, *E. B. Seward v. American Cupter Co.*

1,114,299, L. Severus, Electric-light fixture, C. C. A., 2d Cir., Doc. 10172, *C. H. Jochmus v. Leviton et al.* Decree reversed (notice Oct. 29, 1928).

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Aug. 23, 1928, D. C., E. D. N. Y., Doc. 3808, *Claude Neon Lights, Inc., v. General Neon Tube Corp. et al.* Doc. 3811, *Claude Neon Lights, Inc., v. The Ionic Light & Electric Co., Inc.*

1,171,982, L. Rosenman, Garment-fastener holder, filed Sept. 20, 1928, D. C., E. D. N. Y., Doc. 3830, *Yale Hook & Eye Co. v. Waldes-Koh-I Noor, Inc.*

1,173,079, E. F. Alexanderson, Selective tuning system; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials; 1,313,094, I. Langmuir, System of amplifying variable currents, filed Oct. 17, 1928, D. C., N. D. Ohio, E. Div., Doc. 2692, *Radio Corp. of America et al. v. The Sperbe Withington Co.*

1,183,875, R. V. Hartley, Electrical circuit; 1,231,764, F. Lowenstein, Telephone relay; 1,249,252, H. D. Arnold, Method of and means for utilising thermionic currents; 1,403,475, same, Vacuum-tube circuits; 1,432,022, same, Circuit connection of electron-discharge apparatus; 1,465,332, same, Vacuum-tube amplifier, filed Oct. 17, 1928,

D. C., N. D. Ohio, E. Div., Doc. 2691, *Radio Corp. of America et al.* v. *The Sparks-Withington Co.*

1,191,306. (See 1,221,800.)

1,199,789, M. Hochstadter, Electrical conductor; 1,675,918, Atkinson & Shurts, High-tension cable, filed Oct. 30, 1928, D. C., S. D. N. Y., Doc. E 47/86, *General Cable Corp.* v. *Habirshaw Cable & Wire Corp.*

1,221,800, 1,191,306, T. A. Hoover, Automobile bumper, D. C., E. D. N. Y., Doc. 3687, *American Chain Co., Inc., v. Bethlehem Bumper Co. et al.* Consent decree for plaintiff Aug. 2, 1928.

1,231,764. (See 1,183,875.)

1,251,377. (See 1,173,079.)

1,307,733, A. V. Gullborg, Lubricating apparatus; 1,307,734, same, Lubricating means, filed Aug. 11, 1928, D. C., E. D. N. Y., Doc. 3794, *The Bassick Mfg. Co.* v. *J. Aloir.*

1,307,734 (a), A. V. Gullborg, Lubricating means; 1,475,980, O. Zerk, Lubricating apparatus, filed Aug. 13, 1928, D. C., E. D. N. Y., Doc. 3796, *The Bassick Mfg. Co.* v. *United Grease Gun Corp.*

1,307,734 (b), A. V. Gullborg, Lubricating means, D. C., E. D. N. Y., Doc. 3795, *The Bassick Mfg. Co.* v. *Drapery Hardware Mfg. Co.* Decree for plaintiff Oct. 19, 1928.

1,307,734 (c). (See 1,307,733.)

1,313,094. (See 1,173,079.)

1,322,650, S. Sundbach, Fastener for slit and other closures, C. C. A., 2d Cir., Doc.—, *Hookless Fastener Co.* v. *H. L. Rogers Co., Inc.* Decree reversed (notice Oct. 29, 1928).

1,349,252. (See 1,183,875.)

1,355,943, C. F. Cuno, Automatic switch for cigar lighter; 1,378,013, 1,460,095, 1,539,545, 1,593,116, same, Cigar lighter, filed Sept. 6, 1928, D. C., E. D. N. Y., Doc. 3820, *The Cuno Engineering Corp.* v. *Hudson Auto Supply Co., Inc.*

1,378,013. (See 1,355,943.)

1,379,001, W. E. Andree, Garment press; 1,489,227, Benjamin & Carroll, same, appeal filed Oct. 23, 1928, C. C. A., 2d Cir., Doc. 10217–8, *American Laundry Machinery Co. et al.* v. *Prosperity Co., Inc.*

1,388,898, Schmidt & Schmidt, Carcass dehairing and cleaning machine; 1,388,899, O. C. Schmidt, same, filed Oct. 24, 1928, D. C. Kans., 2d Div., Doc. E 526–N, *The Cincinnati Butchers' Supply Co.* v. *J. Dold Packing Co.*

1,388,899. (See 1,388,898.)

1,392,844, A. L. Merolle, Cap-threading machine, D. C., E. D. N. Y., Doc. 3701, *A. L. Merolle et al.* v. *American Metal Cap Co., Inc.* Dismissed Oct. 18, 1928. Doc. 3706, *A. L. Merolle et al.* v. *F. Gutman & Co. et al.* Decree as above.

1,403,475. (See 1,183,875.)

1,404,259, 1,445,193, E. Alschuler, Battery hand lamp, C. C. A., 8th Cir. (St. Louis), Doc. 7968, *H. Hyman* v. *Butler Bros.* Decree affirmed Oct. 11, 1928.

1,411,227, L. A. Suekoff, Spring-cushion construction, filed Aug. 7, 1928, D. C., E. D. N. Y., Doc. 3783, *L. A. Suekoff et al.* v. *Empire Spring Co.*

1,410,988. (See 1,510,804.)

1,432,022. (See 1,183,875.)

1,432,937, W. H. Wood, Storage battery, filed Nov. 1, 1928, D. C., W. D. N. Y., Doc. 1447–H, *W. H. Wood* v. *U. S. L. Battery Corp.*

1,445,193. (See 1,404,259.)

1,460,095. (See 1,355,943.)

1,465,332. (See 1,183,875.)

1,466,437, P. L. Hill, Process for making character carriers for composing machine, D. C., E. D. N. Y., Doc. 3758, *Matrix Contrast Corp. et al.* v. *H. Gitow.* Decree pro confesso Sept. 25, 1928.

1,475,980. (See 1,307,734 (a).)

1,477,648, J. T. Huston, Peanut-shelling machine, filed Oct. 24, 1928, D. C., M. D. Ga. (Americus), Doc. E 14, *C. R. Medley et al.* v. *Tomlin Harris Machine Co.*

1,489,227. (See 1,379,601.)

1,503,510, A. S. Margason, Windshield for closed motor cars; 1,552,332, Miller & Harvey, Air deflector, filed Oct. 13, 1928, D. C., N. D. Calif. (San Francisco), Doc. 2206–K, *C. Margason et al.* v. *J. P. Callahan et al (De Luxe Windshield Co.).*

1,510,804, C. F. Sherwood, Shaft lining; 1,416,988, same, Bearing, filed Oct. 23, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–68–J, *Oliver-Sherwood Co. et al.* v. *Patterson-Ballagh Corp.*

1,523,500. (See 1,025,170.)

1,537,708, W. Schottsky, Thermionic vacuum tube; 1,558,437, I. Langmuir, Electrical discharge apparatus, filed Aug. 30, 1928, D. C., E. D. N. Y., Doc. 3812, *Radio Corp. of America et al.* v. *C. G. Rosewall.*

1,539,545. (See 1,355,943.)

1,552,332. (See 1,503,510.)

1,558,437. (See 1,537,708.)

1,573,031, Bettis & Perry, Well-casing protector, filed Oct. 20, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–62–J, *W. I. Bettis et al.* v. *Paragon Rubber Products Co., et al.*

1,593,116. (See 1,355,943.)

1,601,575, L. C. Marshall, Piston packing, D. C. N. H. (Concord), Doc. E 185, *The Simplex Piston Ring Co. of America, Inc.*, v. *A. C. Anderson et al.* Dismissed (notice Oct. 30, 1928).

1,605,902, L. Rosenman, Sewing machine, filed Aug. 17, 1928, D. C., E. D. N. Y., Doc. 3806, *Yale Hook & Eye Co.* v. *Interwoven Hook & Eye Co., Inc., et al.*

1,609,428, H. Ringel, Clothing receptacle, filed Sept. 24, 1928, D. C., E. D. N. Y., Doc. 3838, *Converters Paper Co.* v. *A. I. Namm & Son, Inc.*

1,628,591, P. Harris, Wig for dolls, D. C., E. D. N. Y., Doc. 3766, *Mutual Hair Goods Co., Inc., et al.* v. *J. Teruya.* Consent decree for plaintiff Oct. 1, 1928. Doc. 3768, *Mutual Hair Goods Co., Inc., et al.* v. *C. Schwartz.* Decree as above July 30, 1928.

1,658,787, A. M. Levy, Compression rheostat; 1,658,788, same, Electrical resistance apparatus, filed Aug. 2, 1928, D. C., E. D. N. Y., Doc. 3778, *A. M. Levy et al.* v. *Clarostab Mfg. Co., Inc., et al.*

1,658,788. (See 1,658,787.)

1,670,932, L. H. Dickelman, Brooder house, filed Oct. 31, 1928, D. C., N. D. Ohio, W. Div., Doc. E 933, *The Dickelman Mfg. Co. et al.* v. *P. O. Lorcher et al.*

1,672,040, N. Rubenstein, Steam pressing iron, filed Aug. 31, 1928, D. C., E. D. N. Y., Doc. 3813, *N. Rubenstein* v. *H. Rappaport.* Doc. 3814, *N. Rubenstein* v. *N. Slobotkin.*

1,675,918. (See 1,199,789.)

Des. 71,767, F. Schmidt, Goblet or the like, filed July 26, 1928, D. C., E. D. N. Y., Doc. 3774, *F. O. Reimer Co., Inc.*, v. *J. Hirsch et al.* Decree for plaintiff Sept. 12, 1928.

Des. 75,568, A. R. Kanne, Lamp-supporting bracket, D. C., S. D. N. Y., Doc. E 46/140, *Kanne & Bessant, Inc.*, v. *T. L. Hayes (Tessie Lou Studios) et al.* Consent decree for plaintiff Oct. 26, 1928.

## Adverse Decisions in Interference.

Final decisions in interferences have been rendered against the following trade-marks:

T. M. 169,843, Face powder, Alice L. Lynch, doing business as Alice-Louise Co., New York, N. Y. Registered July 3, 1923. Decided October 29, 1928.

T. M. 238,738, French Sardine Company of California, doing business as French Sardine Co. Inc., Terminal Island, Calif. Registered February 14, 1928. Decided November 22, 1928.

# TRADE-MARKS

## OFFICIAL GAZETTE, DECEMBER 11, 1928.

[VOL. 377. No. 2.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 268,640. FREDERICK G. SMITH & CO., Freeport, Ill. Filed June 25, 1928.



No claim is made to the words "Dustless Processed Fuel" apart from the mark as shown.

For Coal.

Claims use since May 24, 1928.

Ser. No. 270,835. JOHN H. FAUCETT, Bath, N. Y. Filed Aug. 10, 1928.




The words "Burn Erie Coal" are disclaimed apart from the mark as shown.

For Anthracite and Bituminous Coal.

Claims use since Apr. 22, 1906.

Ser. No. 272,409. WALTER W. KRIDER, Brooklyn, N. Y. Filed Sept. 14, 1928.

**DURASTONE**

For Ground Mixture from Which Artificial Stone May Be Made—Namely, Mixture for Interior Use Composed of Plaster of Paris, Keen's Cement, Marble Dust, and Powdered Coloring Matter, and Mixture for Exterior Use Composed of Portland Cement, Keen's Cement, and Marble Dust with Powdered Coloring Matter, and a Mixture of Portland Cement, Keen's Cement, and White Silica Sand with Powdered Coloring Matter.

Claims use since June, 1913.

Ser. No. 272,907. JOHN D. SILK & COMPANY, Chicago, Ill. Filed Sept. 24, 1928.

**GRANITE HILL**

For Coal.

Claims use since Feb. 20, 1928.

Ser. No. 273,425. WHITE ROCK SILICA COMPANY, Chicago, Ill. Filed Oct. 5, 1928.




No claim of exclusive right to the use of the word "Silica" is made apart from the mark as shown in the drawing.

For White Sand, Silica Sand, Pulverized White Silica Flour or Powder.

Claims use since Sept. 22, 1928.

## CLASS 2.

### Receptacles.

Ser. No. 256,353. W. N. MATTHEWS CORPORATION, St. Louis, Mo. Filed Oct. 20, 1927.




The vertical hatching represents the color red.
For Storage Tanks for Painting Apparatus.
Claims use since about January, 1923.

## CLASS 3.

### Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 266,933. J. A. HENCKELS, Solingen, Germany. Filed May 24, 1928.



For Empty Leather Cases for Manicure Sets, Sewing Sets, Library Sets, Scissors Sets, Razor Sets, Travelling Sets.
Claims use since 1731.

Ser. No. 273,563. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Oct. 9, 1928.

VIT-A-TAN

No claim is made herein to the word "Tan" apart from the mark shown in the drawing.
For Harness.
Claims use since Jan. 15, 1928.

Ser. No. 274,246. WHITE LUGGAGE CO., INC., New York, N. Y. Filed Oct. 24, 1928.

Miss Tourette

For Juvenile Wardrobe Hatboxes and Juvenile Wardrobe Suitcases.
Claims use since May 12, 1928.

## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 262,328. PURFEX MFG. CO., Philadelphia, Pa. Filed Feb. 27, 1928.

PURFEX

For Liquid Preparation for Fabric Cleaners, Metal Polish, Nickel Polish, Hard Green Soap, Vegetable-Oil Soap, and Valve-Grinding Compound.
Claims use since November, 1910.

Ser. No. 272,889. FREDERICK F. INGRAM COMPANY, Detroit, Mich. Filed Sept. 24, 1928. Under section 5b of the act of 1905 as amended in 1920.

Ingram's

For Shaving Cream.
Claims use since about November, 1918.

Ser. No. 273,168. STANDARD OIL COMPANY, Whiting, Ind., and Chicago, Ill. Filed Sept. 29, 1928.

IANA

For Hydrocarbon Cleaning Fluid.
Claims use since Aug. 15, 1928.

Ser. No. 273,188. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio. Filed Oct. 1, 1928.

Dawn

For General Household Cleaning and Polishing Preparation in Powder Form.
Claims use since Sept. 19, 1928.

Ser. No. 273,729. WALGREEN CO., doing business as Valentine Laboratories, Inc., Chicago, Ill. Filed Oct. 12, 1928.

Man O'War

For Shaving Cream.
Claims use since Aug. 25, 1928.



Ser. No. 273,916. HASBROUCK, INC., New York, N. Y. Filed Oct. 17, 1928.

SHEMEN

For Soaps.
Claims use since Jan. 1, 1925.

## CLASS 5.

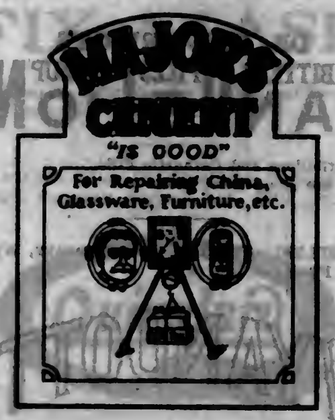
### Adhesives.

Ser. No. 269,269. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed July 7, 1928.




For Adhesive Cement for Cementing Tire Patches, Adhesive Cement for Cementing Boots, Adhesive Cement for Patching Cloth, and Adhesive Cement for Patching Solid Materials, Nonfreezing Tire-Patch Cement.
Claims use since Dec. 10, 1925.

Ser. No. 272,504. MAJOR MANUFACTURING CO., New York, N. Y. Filed Sept. 15, 1928. Under 10-year proviso.




The photograph is that of Alphonse Major, deceased, the founder of the business.
For Adhesive Cement.
Claims use since July, 1877.

Ser. No. 273,903. COMPO SHOE MACHINERY CORP., Highland Park, N. J. Filed Oct. 17, 1928.

COMPO

For Adhesive Shoe Cement.
Claims use since Sept. 1, 1928.

Ser. No. 274,545. BOSTON BLACKING COMPANY INC., Boston, Mass. Filed Oct. 30, 1928.

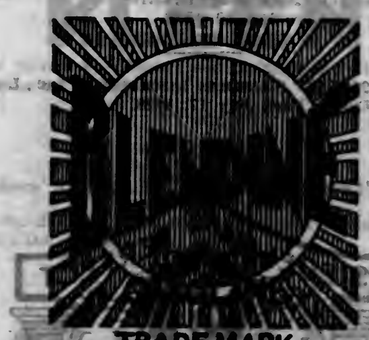
Be-Be-Tex

For Latex Cement.
Claims use since about Oct. 15, 1928.

## CLASS 6.

### Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 254,677. WILLIAM J. MCKEE, doing business as The Blendine Co., Los Angeles, Calif. Filed Sept. 13, 1927.




No claim is made to the words "For Your Gasoline" or the words "Trade-Mark" apart from the mark shown. The vertical-line shading indicates red.
For Chemical Preparation to be Added to Gasoline to Increase Its Efficiency.
Claims use since Nov. 1, 1926.

Ser. No. 256,613. WILL DAVIS, doing business as W. Davis Prod. Co., New Orleans, La. Filed Oct. 26, 1927.

SUPERIOR



No claim is made to the word "Superior" apart from the mark shown in the drawing.
For Yeast Cream for Softening and Beautifying the Skin and for Pimples, Freckles, Chapped Hands and Lips, and All-Skin Diseases.
Claims use since Apr. 1, 1927.

Ser. No. 267,990. HENRY PELTZMAN, doing business as Paradise Pharm. Lab., Glendale, N. Y. Filed June 13, 1928.

PARADISE

Rx

626

Applicant disclaims the symbol "℞ 626" apart from the mark as shown in the drawing.
For Stomachic Antacid and Laxative.
Claims use since Jan. 10, 1928.

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Ser. No. 269,749. SIEGELMAN LABORATORIES, INC., Los Angeles, Calif. Filed July 17, 1928.

SIEGELMAN'S PERFECT

MAKE UP

The descriptive words "Perfect Make-Up" are disclaimed apart from the mark as shown.
For Cosmetic Preparation for Use on Human Legs for the Purpose of Concealing Blemishes, Beautifying the Skin, and as Protection Against the Elements; Face Powder, Rouge, Cold Cream; Theatrical Powder, Being a General Powder for Use on Body After Other Cosmetics Have Been Applied; Eye Shadows, Being a Preparation for Color Shading of Eyelids; Lemon Cream, Freckle Cream, Bandoline, Hand Lotion, Hair Oil, Bath Powder, Mascara Lip Sticks; Make-Up, Being a Cosmetic Preparation for Coloring the Skin, Serving as a Protection Against the Elements and for Beautifying Purposes.
Claims use since Jan. 1, 1926.

Ser. No. 271,697. WILLIAM DOUGLAS HALL, doing business as Douglas Laboratories, Dayton, Ohio. Filed Aug. 29, 1928.

PIC-RIC

PENATROME

No claim is made herein to the word "Pic-ric" apart from the mark shown in the drawing.
For Antiseptic.
Claims use since Aug. 1, 1928.

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Ser. No. 272,334. HARDEMAN-KING COMPANY, Oklahoma City, Okla. Filed Sept. 13, 1928.

Meritine

For Insecticides.
Claims use since May 15, 1928.

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Ser. No. 272,347. SPICER AND COMPANY, Glendale, Calif. Filed Oct. 8, 1928.

PANOPSIN

For Preparation for the Treatment of Flatulence and Nausea and an Auxiliary to the Assimilation of Carbohydrates.
Claims use since Aug. 31, 1928.

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Ser. No. 273,447. THE DANDELION PILL CO. INC., Stamford, Conn. Filed Oct. 6, 1928. Under 10-year proviso.

DR. TROWBRIDGE'S

BITTERS PILLS SYRUP

DANDELION

For Antibilious and Cathartic Pills.
Claims use since about 1865.

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Ser. No. 273,590. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed Oct. 10, 1928.

WYANDOTTE

For Sal Soda for Use in the Cleaning Trade.
Claims use since Sept. 17, 1928.



Ser. No. 273,591. THE J. B. FORD COMPANY, Wyandotte, Mich. Filed Oct. 10, 1928.

WYANDOTTE

For Sal Soda for Use in the Cleaning Trade.
Claims use since Sept. 17, 1928.

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Ser. No. 273,904. COMPO SHOE MACHINERY CORP., Highland Park, N. J. Filed Oct. 17, 1928.

COMPO

For Chemical Preparation for Softening Shoe Cement.
Claims use since Sept. 1, 1928.

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Ser. No. 274,056. A. J. KRANK MFG. CO., St. Paul, Minn. Filed Oct. 20, 1928.

FIX-A-LASH

For Preparation for the Eye Lashes and Brows.
Claims use since Sept. 8, 1928.

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Ser. No. 274,125. EMIL PEKAREK, doing business as Quinnlard Mfg. Company, Whiting, Ind. Filed Oct. 22, 1928.

Quinnlard

For Salve for External and Internal Use to Relieve Coughs, Colds, Bronchitis, Asthma, Whooping Cough, Sore Throat, Headache, Neuralgia, Rheumatism, Lame Back, and Swellings.
Claims use since October, 1922.

Ser. No. 274,126. PHILADELPHIA QUARTZ COMPANY, Philadelphia, Pa. Filed Oct. 22, 1928.

KEEPSAFE

EGG PRESERVER

WATERGLASS

No claim is made to the words "Keepsafe Egg Preserver Waterglass" apart from the mark shown in the drawing.
For Silicate of Soda.
Claims use since Sept. 6, 1928.

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Ser. No. 274,420. WESTERN CHEMICAL CO., Kansas City, Mo. Filed Oct. 27, 1928.

—TOI—

KLEEN

For Solvent for Cleaning and Disinfecting Toilet Bowls.
Claims use since June 15, 1928.

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## CLASS 8.

## Smokers' Articles, Not Including Tobacco Products.

Ser. No. 274,034. THE BURTIS CO. INC., Newark, N. J. Filed Oct. 20, 1928.

Kiltie

For Tobacco Pouches, Pipes, Cigar and Cigarette Holders Cigar and Cigarette Cases.
Claims use since July 1, 1928.

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## CLASS 10.

## Fertilizers.

Ser. No. 269,389. THE BUHNER FERTILIZER COMPANY, Seymour, Ind. Filed July 11, 1928.

Butylizer

For Lawn and Garden Fertilizer.
Claims use since January, 1926.

Ser. No. 274,069. CHAS. W. PRIDDY & COMPANY, INC., Norfolk, Va. Filed Oct. 20, 1928.

LUCKY STRIKE

For Fertilizers.
Claims use since Dec. 1, 1925.

## CLASS 11.

### Inks and Inking Materials.

Ser. No. 272,670. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., Ilion and New York, N. Y. Filed Sept. 19, 1928. Under section 5b of the act of 1905, as amended in 1920.

REMINGTON

For Marking Ink.
Claims use since 1922.

Ser. No. 273,614. SCRIPTEX INK & PASTE CO., Philadelphia, Pa. Filed Oct. 10, 1928.

*Estex*

For Writing Inks.
Claims use since Sept. 15, 1928.

## CLASS 12.

### Construction Materials.

Ser. No. 250,344. GRAND RAPIDS PLASTER COMPANY, Grand Rapids, Mich. Filed June 10, 1927. Under 10-year proviso.

HOVEY'S

For Plaster.
Claims use since Jan. 1, 1860.

Ser. No. 255,753. LASTASEAL PAINT CORPORATION, Zanesville, Ohio. Filed Oct. 7, 1927.

Lastaseal

For Coating, Preservative, and Waterproofing Material—Namely, Asphaltic and Cementitious Compositions.
Claims use since Jan. 1, 1927.

Ser. No. 262,067. EDUARD DYCKERHOFF, Schlos-Blumenau, near Wunstorf, Germany. Filed Feb. 23, 1928.

Alfol

For Heat-Protecting and Insulating Material—Namely, Bright, Shining, and Preferably Crushed or Crumpled, Regularly or Irregularly Arranged Thin Metal Plates and Metal Foils, Particularly Aluminum Sheets, Aluminum Foils, Tinsel as Insulating Material, Thin Heat-Insulating Metal Plates and Metal Foils Adapted for Use as Heat-Insulating and Cold-Insulating and Heat-Exchange-Preventing Layers and Coatings, Flat and Substantially Dish-Shaped Plates of Peat and Asbestos, All for Thermal Insulating Purposes.
Claims use since Jan. 4, 1926.

Ser. No. 269,714. CENTRAL PAINT & ROOFING COMPANY, Louisville, Ky. Filed July 17, 1928.

DUR-A-BULL



For Smooth-Surface and Slate-Surfaced Composition Roofing.
Claims use since Apr. 19, 1927.

Ser. No. 269,715. CENTRAL PAINT & ROOFING COMPANY, Louisville, Ky. Filed July 17, 1928.

CENTROLASTIC

For Bituminous and Waterproof Composition Roof Coatings.
Claims use since Sept. 11, 1926.



Ser. No. 269,739. NATIONAL GYPSUM COMPANY, Buffalo, N. Y. Filed July 17, 1928.

LUCKY STRIKE

For Plaster.
Claims use since June 8, 1928.

Ser. No. 270,177. THE ELECTRO REFRACTORIES CORPORATION, Buffalo, N. Y. Filed July 26, 1928.

"BRONEX"

NAG-NO-SPALL

For Refractory Bricks, Blocks, Tile, All Made of Refractory Material, Furnace Linings, and Cement.
Claims use since June 15, 1928.

Ser. No. 270,491. HURD LUMBER CO., Medford and Merrill, Wis. Filed Aug. 2, 1928.




The word "Frame" is disclaimed apart from the other features of the mark shown on the drawing.
For Door and Window Frames, Cellar Sash Frames, Casement Sash Frames, Interior Finish, Cut to Size.
Claims use since Apr. 15, 1926.

Ser. No. 271,758. HAWKINS COMPANIES, INCORPORATED, Boston, Mass. Filed Aug. 30, 1928.

CONCENTRATION DISTRIBUTION

For Shingles, Doors and Door Jambs, Windows and Window Frames, Aromatic Cedar Closet Lining, Roll Roofings, Sheathing Papers, Flooring, Wood Moulding and Finish, Wall Boards, and Insulating Lumber, Stair Treads, Risers, and Newel Posts, Pergolas, Nonmetallic Fencing, Trellises, and Arches.
Claims use since June 14, 1928.

Ser. No. 272,012. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

USG
CELL-O-CRETE
INSULATING ROOF TILE

No claim is made to the words "Insulating Roof Tile" apart from the mark shown.
For Concrete Molded Products—Namely, Light-Weight Tile and Blocks.
Claims use since July 25, 1928.

Ser. No. 272,280. LOS ANGELES PAPER MANUFACTURING CO., also doing business as El Rey Products Co., Los Angeles, Calif. Filed Sept. 12, 1928.

Palomar

For Prepared Roofing, Building Papers, Asphalt Shingles, Deadening Felt, Plaster Board.
Claims use since Jan. 15, 1926.

Ser. No. 272,291. LOS ANGELES PAPER MANUFACTURING CO., also doing business as El Rey Products Co., Los Angeles, Calif. Filed Sept. 12, 1928.

RANCHO

For Prepared Roofing, Building Papers, Asphalt Shingles, Deadening Felt, Plaster Board.
Claims use since Jan. 15, 1926.

Ser. No. 272,292. LOS ANGELES PAPER MANUFACTURING CO., also doing business as El Rey Products Co., Los Angeles, Calif. Filed Sept. 12, 1928.

**Rodeo**

For Prepared Roofing, Building Papers, Asphalt Shingles, Deadening Felt, Plaster Board.
Claims use since Jan. 15, 1926.

Ser. No. 273,085. THE VORTEX MANUFACTURING COMPANY, Cleveland, Ohio. Filed Sept. 27, 1928.

**Dens-tect**

For Dampproofing, Waterproofing, and Plaster Keys for Walls and Structural Surfaces.
Claims use since July 27, 1928.

Ser. No. 273,488. BELL & GOSSETT COMPANY, Chicago, Ill. Filed Oct. 8, 1928.

**No. 40**

For High-Temperature Bonding Mortar Cement.
Claims use since September, 1920.

## CLASS 13.

### Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 269,071. THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass., and Hoboken, N. J. Filed July 5, 1928.

**National**

For Metal Fence Posts.
Claims use since May 10, 1928.

Ser. No. 274,038. C. A. DUNHAM COMPANY, Chicago, Ill. Filed Oct. 20, 1928.

**Prier**

For Radiator Valves.
Claims use since January, 1927.

## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 264,672. LOUIS DANIEL, Paris, France. Filed Apr. 11, 1928.

**"BRONEX"**

For Alloys of Bronze in Bulk, in Ingots, in Bars, Sheets, in Plates, Wires, and in Fragments.
Claims use since Jan. 11, 1928.

Ser. No. 264,673. LOUIS DANIEL, Paris, France. Filed Apr. 11, 1928.

**"EXIUM"**

For Alloys of Lead in Bulk and Ingots, in Bars, in Sheets, in Plates, in Wires, and in Fragments.
Claims use since Jan. 11, 1928.

Ser. No. 272,155. GENERAL ALLOYS COMPANY, Boston, Mass. Filed Sept. 10, 1928.

**XITE**

For Castings of Metal Alloy.
Claims use since June 16, 1925.

Ser. No. 272,823. MARION MACHINE, FOUNDRY & SUPPLY CO., Marion, Ind., and Tulsa, Okla. Filed Sept. 22, 1928.

**MARLOY**

For Ferrous-Metal Alloy of Chromium-Nickel-Steel Composition Used in the Manufacture of Soot-Blower Elements, Bearings, Carbonizing Processes, and Other Applications Where the Material is Subject to Temperatures Ranging from 1600° to 2200° Fahrenheit.
Claims use since on or about June 14, 1928.



Ser. No. 273,746. GENERAL CABLE CORPORATION, New York, N. Y. Filed Oct. 12, 1928.



For Sheet Copper, Copper Strip, Copper Rods, Copper Anodes, Copper in Rolls, Plain Copper Wire, and Nonferrous Metals.
Claims use since May 4, 1928.

## CLASS 15.

### Oils and Greases.

Ser. No. 248,443. PIERCE PETROLEUM CORPORATION, Wilmington, Del., and St. Louis, Mo. Filed May 4, 1927.

**SOUTHERN**

For Lubricating Oils.
Claims use since Aug. 5, 1918.

Ser. No. 263,971. ASHER L. SCUDDER, doing business as Topgrades Oil Co., Fort Worth, Tex. Filed Mar. 29, 1928.

**HIGH FIRE**

The words "High Fire" are claimed only as associated with the trade-mark as shown. The drawing is lined for red.
For Lubricating Oils.
Claims use since Jan. 11, 1928.

Ser. No. 265,723. GENERAL PETROLEUM CORPORATION OF CALIFORNIA, Los Angeles, Calif. Filed May 1, 1928.

**Paralube**

For Lubricating Oils.
Claims use since Dec. 23, 1927.

Ser. No. 269,254. PITTSBURGH GASOLINE COMPANY, Lancaster, Pa. Filed July 7, 1928.

**PITTSCO**

No claim is made to the word "Oils" shown in the drawing apart from the mark shown. The lining on drawing is intended to represent the colors blue and yellow.
For Gasoline, Kerosene, Lubricating Oils, Lubricating Greases, and Motor-Fuel Oil.
Claims use since Feb. 1, 1926.

Ser. No. 270,717. RAILROAD JONES OIL COMPANY, Winston-Salem, N. C. Filed Aug. 7, 1928.




Applicant disclaims the right to the exclusive use of the words "Gasoline, Oils" and "Winston-Salem, N. C."
For Gasoline, Lubricating Oils and Greases.
Claims use since May, 1922.

Ser. No. 270,902. U. S. OIL COMPANY, Providence, R. I. Filed Aug. 11, 1928.



The drawing is lined for orange color. No claim is made for the word "Oil" apart from the mark shown in the drawing.
For Lubricating Oils and Greases.
Claims use since Oct. 1, 1922.

Ser. No. 271,995. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

PUROFORD

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils, Lubricating Greases, and Motor-Lubricating Oil.
Claims use since May 15, 1925.

Ser. No. 272,116. NEW YORK LUBRICATING OIL COMPANY, New York, N. Y. Filed Sept. 8, 1928.

Stand Up!



For Lubricating Greases, Lubricating Oils for Machinery, Engines, Motors, and Dynamos.
Claims use since May 3, 1928.

Ser. No. 272,972. W. H. BARBER COMPANY, Minneapolis, Minn. Filed Sept. 26, 1928.

Univerzoil

Aircraft Tractor

Applicant disclaims exclusive use of the words "Aircraft" and "Tractors" except as they appear in connection with the mark. The drawing is lined to indicate that the tips of the wings and of the propeller blades of the aeroplane as well as the lines indicating the revolution of the blades and certain of the struts are yellow. Also the circular background for the representation of the tractor and the words "Aircraft" and "Tractors" are lined for yellow.

For Lubricating Oils and Greases.
Claims use since Mar. 1, 1927.

## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 257,855. THE CINCINNATI VARNISH COMPANY, Cincinnati, Ohio. Filed Nov. 21, 1927.




The word "Calcutta" was in actual use for 10 years next preceding Feb. 20, 1905, and such use was exclusive.

For Varnishes—viz, Architectural Varnishes, Comprising Spar, Flat, Interior, Coach, Hard Oil Finish, Copal, Dammar, Pew, and Seat Varnish, Bronzing Liquid, and Sizing Varnish; Automobile Varnishes, Comprising Body Finishing, Rubbing, Automobile Primers and Surfacers; and Furniture Varnishes, Comprising Polishing, Rubbing, Flat, Coach, and Flowing; Stains—viz, Penetrating Oil Stains, Varnish Stains; Fillers—viz, Liquid Fillers, Iron Fillers, and Paste Wood Fillers, Japans and Japan Driers, Putty; Asphaltum Paints—viz, Paints Comprising Asphaltum; Lacquers; Shellac—viz, Pure and Substitute; Primers; Enamels—viz, White and Colored, Enamel Undercoats, Stovepipe Enamel, Machinery Enamels, Toy Enamels, and Furniture Enamels; and Paints—viz, House Paint, Screen Paint, Sash Paint, Porch and Deck Paints, Floor Paint, Barn Paint, Roof Paint, and Bridge Paint.
Claims use since on or about Jan. 1, 1885.

Ser. No. 274,106. LOUIS FOLLMAN, New York, N. Y. Filed Oct. 22, 1928.

JAP-LITE



The representation of a Japanese girl appearing on the drawing is fanciful.
For Ready-Mixed Paint.
Claims use since about July 1, 1928.



Ser. No. 274,794. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Nov. 3, 1928.

MIMAX

For Varnishes, Liquid and Paste, Paints, Putties, Pyroxylin, Lacquers, and Pyroxylin Enamels.
Claims use since about Jan. 3, 1923.

Ser. No. 274,812. ACME WHITE LEAD & COLOR WORKS, Detroit, Mich. Filed Nov. 5, 1928.

240

For Varnishes.
Claims use since about Feb. 13, 1928.

## CLASS 17.

### Tobacco Products.

Ser. No. 272,272. THE UNION TOBACCO COMPANY, New York, N. Y. Filed Oct. 2, 1928.




For Cigarettes.
Claims use since Aug. 21, 1928.

Ser. No. 272,273. THE UNION TOBACCO COMPANY, New York, N. Y. Filed Oct. 2, 1928.



For Cigarettes.
Claims use since Aug. 21, 1928.

877 O. G.—17

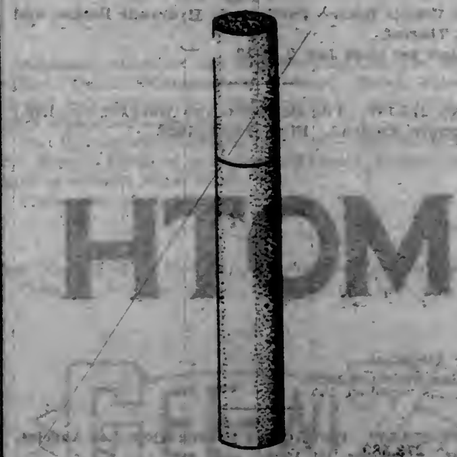
Ser. No. 273,989. TORRES GENER HERMANOS, HEREDEROS DE JOSE GENER, Habana, Cuba. Filed Oct. 18, 1928.

EL VINYET



For Cigars, Cigarettes, and Smoking Tobacco.
Claims use since Oct. 19, 1902.

Ser. No. 274,043. PHILIP MORRIS & CO. LTD. INCORPORATED, New York, N. Y. Filed Oct. 20, 1928.




The trade-mark is the ring line encircling the cigarette at a point approximately one-third of the distance from one end of the cigarette to the other. The mark may be in any color and does not include any particular color as an essential feature thereof. No claim is made to the representation of the cigarette.

For Cigarettes (Round and Oval Shaped and Both Plain and Cork Tipped).
Claims use since Sept. 10, 1928.

Ser. No. 274,675. THE RUMISON CORPORATION, Union City, N. J. Filed Nov. 1, 1928.

RUMIDOR

For Cigars, Cigarettes, Smoking Tobacco, Chewing Tobacco, and Snuff.
Claims use since May 4, 1928.

## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 269,791. E. M. LAIRD AIRPLANE CO., Chicago, Ill. Filed July 18, 1928.

LAIRD WHIRLWIND

The word "Whirlwind" indicating that the airplane is equipped with a Whirlwind engine does not form a part of the registration sought.

For Airplanes.

Claims use since about Oct. 1, 1927.

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Ser. No. 270,593. HYDRAULIC BRAKE COMPANY, Los Angeles, Calif., and Detroit, Mich. Filed Aug. 4, 1928.

LOCKHEED

For Vehicle Brakes, Particularly Hydraulic Brakes, and Parts Thereof.

Claims use since Jan. 2, 1923.

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Ser. No. 273,187. THE DE HAVILLAND AIRCRAFT CO., LTD., Edgware, England. Filed Oct. 1, 1928.

MOTH

For Airplanes.

Claims use since 1926.

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Ser. No. 273,589. ENO RUBBER CORPORATION, Los Angeles, Calif. Filed Oct. 10, 1928.

NoMAR

For Driver's Shoe-Heel Rest for Auto Vehicles.

Claims use since about Aug. 20, 1928.

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Ser. No. 273,702. THE HUGHES-KEENAN COMPANY, Mansfield, Ohio. Filed Oct. 12, 1928.

LUMBERJACK.

For Truck Bodies Especially Constructed to Discharge Lumber and the Like.

Claims use since Sept. 28, 1928.

## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 264,846. RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 14, 1928.

RCA

For Broadcast Transmitters, Quartz Crystals, Condenser Microphones, Modulation Reactors, Outside Pick-Up Equipment, Speech Input Panels and Equipment, Broadcast Studio and Control Room Apparatus, Transmitting Vacuum Tubes, Transmitting Rectifying Tubes, Condensers, Aircraft Transmitters, Aircraft Receivers, Radio Beacon Receivers for Aircraft, Ground Station Transmitters, Point-to-Point Telegraph Equipment, Radio Beacon Transmitters, Quartz-Crystal Precision Oscillators, and Synchroscopes, Photoelectric Cells, Water-Cooled Vacuum Tubes, and Rectifying Tubes.

Claims use since Aug. 15, 1922.

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Ser. No. 269,234. NATHAN GOLDMAN, New York, N. Y. Filed July 7, 1928.

PARAMOUNT

For Electric Tubes.

Claims use since Jan. 1, 1928.

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Ser. No. 269,365. THE REGINA CORPORATION, Rahway, N. J. Filed July 10, 1928.

REGINARATOR

For Attachment for Electric Vacuum Cleaners for Aerating, Disinfecting, and Deodorising Purposes.

Claims use since May 25, 1928.

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Ser. No. 271,578. SUPERIOR ELECTRIC PRODUCTS CORPORATION, St. Louis, Mo. Filed Aug. 25, 1928.

SUPER LECTRIC PRODUCTS

The word "Products" is disclaimed apart from the mark shown.

For Electric Percolators, Electric Toasters, Electric Flatirons, Electric Table Stoves, Electric Soldering Irons, Electric Curling Irons, Electric Air and Space Heaters, Electric Heating Pads for General Use, Electric Waffle Irons.

Claims use since January, 1924.



Ser. No. 272,279. NATHAN KLEIN, doing business as National Electric Products Co., New York, N. Y. Filed Sept. 12, 1928.

BULL DOG

NATIONAL

BD

DRILLS

No claim is made to the word "Drills" apart from the mark as shown.

For Electric Drills, Electric Hammers, Electric Fans, Electric Grinders, Electric Blowers, Electric Motors, and Electric Sprayers.

Claims use since June 1, 1928.

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Ser. No. 272,578. THE REGINA CORPORATION, Rahway, N. J. Filed Sept. 17, 1928.

ARISTOCRAT

For Electric Vacuum Cleaners.

Claims use since July 20, 1928.

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Ser. No. 273,350. THE ARMSTRONG ELECTRIC AND MANUFACTURING CORPORATION, Huntington, W. Va. Filed Oct. 4, 1928.

PERC-O-TOASTER

The word "Toaster" is disclaimed apart from the mark shown.

For Combined Electric Percolator and Toaster.

Claims use since Sept. 22, 1928.

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Ser. No. 273,543. GENERAL DRY BATTERIES, INC., Cleveland, Ohio. Filed Oct. 9, 1928.

SILVER KING

For Electric Batteries.

Claims use since about Sept. 14, 1928.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 257,674. HANDELSVENNOOTSCHAP ONDER DE FIRMA PH. HAKKERT JR., HANDELENDE TEVENS ONDER DEN NAAM VAN FIRST DUTCH STRINGMAKERS EN EERSTE NEDERLANDSCHE SNARENFABRIEK, Rotterdam, Netherlands. Filed Nov. 17, 1927.

FIRST-DUTCH-STRINGMAKERS

Applicant disclaims any exclusive right to the words "First, Dutch, Stringmakers, Holland, Gedep Fabrieks Merk," and "Eerstendeel, Snarenfabriek" apart from the mark shown in the drawing.

For Strings Manufactured from Gut—Namely, Strings for Tennis Racquets and Tennis-Racquet Frames Spun with or without Metal Wire.

Claims use since 1917.

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Ser. No. 266,447. WOLVERINE SUPPLY & MANUFACTURING COMPANY, Pittsburgh, Pa. Filed May 15, 1928.

GEE-WIZ

For Mechanical Toys Operated by Motors, Rotors, and Other Driving Devices.

Claims use since February, 1926.

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Ser. No. 266,448. WOLVERINE SUPPLY & MANUFACTURING COMPANY, Pittsburgh, Pa. Filed May 15, 1928.

"SunnyAndy"

For Mechanical Toys Operated by Motors, Rotors, and Other Driving Devices.

Claims use since Feb. 1, 1928.

Ser. No. 273,853. THE TEMPTATION AND CALAMITY FISH BAIT COMPANY, Baltimore, Md. Filed Oct. 15, 1928.

Calamity

For Trolling Fish Bait.
Claims use since March, 1923.

Ser. No. 274,323. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Oct. 26, 1928.

Atlapac

For Fishing Reels.
Claims use since on or about Oct. 5, 1928.

Ser. No. 274,324. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Oct. 26, 1928.

BEARCAT

For Artificial Bait.
Claims use since on or about Aug. 24, 1927.

Ser. No. 274,326. THE ENTERPRISE MANUFACTURING COMPANY, Akron, Ohio. Filed Oct. 26, 1928.

SUMCO

For Fishing Reels.
Claims use since on or about Oct. 15, 1928.

Ser. No. 274,751. ZULU TOY MANUFACTURING COMPANY, INC., Battle Creek, Mich. Filed Nov. 2, 1928.

CITY OF GOLD

For Board Game.
Claims use since January, 1927.

## CLASS 23.

### Cutlery, Machinery, and Tools, and Parts Thereof.

Ser. No. 269,689. PAPE-THIEBES CUTLERY CO., St. Louis, Mo. Filed July 16, 1928.

UNITAS

For Carving and Butcher Knives, Pocketknives, Table Knives, Razors, Shears, and Scissors, All Made of Base Metal.
Claims use since about Nov. 1, 1906.

Ser. No. 270,896. TIP'S TOOL COMPANY, INC., Taylorville, Ill. Filed Aug. 11, 1928.

TIP'S TOOLS

The word "Tools" is disclaimed apart from the mark as shown in the drawing.
For Wire Tong Supports, Live-Line Guards, Dead-End Sets, Plug Pullers, Clamp Sticks, Paint Sticks, Come-alongs, Link Sticks, Wire Tongs, Hot Cutters, Fuse Pullers, and Strain Tower Tools.
Claims use since Jan. 1, 1926.

Ser. No. 272,507. NATIONAL BRAKE & ELECTRIC COMPANY, Milwaukee, Wis. Filed Sept. 15, 1928.

National

Exclusive right to the use of the words "Air Compressors" apart from the mark shown is disclaimed.
For Air Compressors and Air-Compressing Equipments.
Claims use since on or about June 15, 1927.

Ser. No. 272,786. A. D. C. AIRCRAFT LIMITED, Regent House, Kingsway, London, England. Filed Sept. 22, 1928.

CIRRUS-HERMES

Applicant is owner of registered Trade-Mark No. 228,892, issued May 31, 1927.
For Aircraft Engines.
Claims use since May 19, 1928.

Ser. No. 273,283. WILLIAM SCRIMGEOUR, Washington, D. C. Filed Oct. 4, 1928.

SCRIM-NATIONAL

For Diesel-Engine Exhaust Valves.
Claims use since Aug. 1, 1928.



Ser. No. 273,689. RICHARD GARDNER, doing business as ROLLAND GARDNER AND COMPANY, Cleveland, Ohio. Filed Oct. 12, 1928.

Non Seg

For Conveying Machinery — Namely, Distributors, Chutes, Hoppers, Guides, Deflectors, Bins and Conduits for the Handling of Divided Solid Materials.
Claims use since about Apr. 11, 1928.

Ser. No. 273,732. WING BLADE COMPANY, Indianapolis, Ind. Filed Oct. 12, 1928.

WING

No claim is made to the representation of a razor blade.
For Safety-Razor Blades.
Claims use since July 31, 1928.

Ser. No. 273,868. GENERAL IMPLEMENT COMPANY, Racine, Wis. Filed Oct. 16, 1928.



No claim is made to the exclusive use of the words "The Plow Combine" apart from the mark as shown.
For Plows.
Claims use since Oct. 2, 1928.

Ser. No. 274,330. THE GENERAL TRACTOR COMPANY, Cleveland, Ohio. Filed Oct. 26, 1928.

GENERAL

For Tractors.
Claims use since Oct. 1, 1927.

Ser. No. 274,574. LOUIS SCHWARZ, Chicago, Ill. Filed Oct. 30, 1928.




The word "Blades" is disclaimed apart from the mark shown in the drawing.
For Safety-Razor Blades.
Claims use since Oct. 1, 1928.

## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 260,892. KALLE & CO. AKTIENGESELLSCHAFT, Wiesbaden-Biebrich, Germany. Filed Jan. 30, 1928.

X

For Light-Sensitive Copying and Photographic Paper.
Claims use since Oct. 22, 1928.

Ser. No. 274,478. RELIABLE TYPEWRITER & ADDING MACHINE CORPORATION, Chicago, Ill. Filed Oct. 29, 1928.

ADDOMETER

Applicant is owner of registered Trade-Mark Certificate No. 244,386, issued July 17, 1928.
For Calculating Machines.
Claims use since on or about Oct. 1, 1928.

Ser. No. 274,749. WORLD WIDE PICTURES, INC., New York, N. Y. Filed Nov. 2, 1928.

WORLD WIDE PICTURES

No claim is made to the word "Pictures" except as used in conjunction with the other features of the mark.
For Motion-Picture Photoplays.
Claims use since Sept. 1, 1928.

## CLASS 27.

### Horological Instruments.

Ser. No. 266,341. S. BRUNER, INC., New York, N. Y., assignor to E. Blancpain Fils, Villerit, Switzerland. Filed Apr. 19, 1928.

QUICK TRAIN

For Watch Movements.
Claims use since about Apr. 18, 1928.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 263,004. DAVID KIRSCH, doing business as Kirsch Jewelry & Novelty Co., St. Louis, Mo. Filed Mar. 12, 1928.

**Society Brand**

The word "Brand" is disclaimed apart from the mark shown.

For Watch Chains, Neck Chains, Bracelets, Bar Pins, Necklaces Set with Pearls, Bracelets for Watches, Scarf Pins, Tie Clasps, Collar Pins, Cuff Links, Lockets, Emblem Charms, Finger Rings, Earrings, Cardcases, Emblem Buttons, Emblem Pins, All of Precious Metals; Silver, Gold-Filled and Solid-Gold and Platinum Cigarette and Cigar Cases, and Cigar and Cigarette Lighters Made Wholly or in Part of Precious Metal or Plated Therewith.

Claims use since Jan. 30, 1928.

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Ser. No. 265,933. SPEIDEL CHAIN CO., Providence, R. I. Filed May 4, 1928.

**MILEX**

For Bracelets, Buckles, Collar Buttons, Collar Fasteners, Spring Rings, Knife Handles, Badges, Key Rings, Chain Fasteners, Snap Fasteners, Ornamental Hairpins, Swivels, Tie Clasps, Belt Clasps, Belt Supporters, Bib Holders, Vanity Cases, Chains for Personal Wear, Cuff Links, Cuff Buttons, Pendants, Pin Stems, Ornamental Pins, Charm Finger Rings, Lockets, Fobs, Ornamental Clasp Pins, Pin Catches, Pin Joints, Brooches, and Scarf Pins, All Made of or Plated with Precious Metal.

Claims use since Mar. 10, 1928.

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Ser. No. 268,978. R. HARRIS & COMPANY, Washington, D. C. Filed July 2, 1928.




No claim is made to the word "Diamond" apart from the mark shown in the drawing.

For Finger Rings.

Claims use since June 26, 1928.

Ser. No. 273,089. ACOSTA & PENELBA, St. Louis, Mo. Filed Sept. 27, 1928.

***"Worthy of a Queen"***

For Articles of Jewelry for Personal Wear, not Including Watches.

Claims use since Sept. 24, 1928.

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## CLASS 29.

### Brooms, Brushes, and Dusters.

Ser. No. 266,476. OAKLEAF MILLS, La Grange, Ga. Filed May 16, 1928.




For Industrial Wiping Cloths.

Claims use since Apr. 3, 1928.

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Ser. No. 274,795. PLANT COMPANY, Minneapolis, Minn. Filed Nov. 3, 1928.

**ROLLRITE**

For Toothbrushes.

Claims use since on or about Oct. 1, 1928.

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## CLASS 30.

### Crockery, Earthenware, and Porcelain.

Ser. No. 267,677. WIENER WERKSTÄTTE GESELLSCHAFT M. B. H., Vienna, Austria. Filed June 7, 1928.

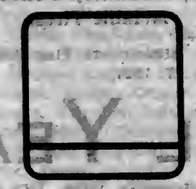


For Pottery, Earthenware, China, Stoneware, and Porcelain Goods of Decorative Design.

Claims use since November, 1918.



Ser. No. 274,714. THEODORE HAVILAND & COMPANY, INCORPORATED, New York, N. Y. Filed Nov. 2, 1928.



For China.

Claims use since Oct. 4, 1928.

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## CLASS 32.

### Furniture and Upholstery.

Ser. No. 272,727. MESSMON, EDDY, PARKER COMPANY, Saginaw, Mich. Filed Sept. 20, 1928.

*ARCADIAN*

For Flower Boxes for Windows, Porch Boxes, and Garden Benches.

Claims use since July 1, 1928.

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Ser. No. 273,519. CLAUDE SINTZ, doing business as Tubular Specialty Manufacturing Company, Detroit, Mich. Filed Oct. 8, 1928.

*Tusco*

For Sewing-Machine, Typewriter, Adding-Machine, and Similar Stands for Use with or in Supporting Such Machines, but Not a Part Thereof, Made Partially or Wholly from Steel Tubing.

Claims use since Dec. 31, 1927.

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Ser. No. 273,540. URBAN A. KEPPINGER, doing business as Kolapso Products Company, Portland, Oreg. Filed Oct. 9, 1928.

**KIDDIE-KLIMBER**

For Household Stools and Chairs Specifically for Children.

Claims use since July 1, 1927.

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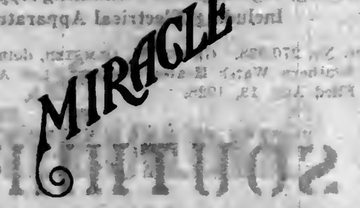
Ser. No. 273,570. AMES HARRIS NEVILLE CO., San Francisco, Calif. Filed Oct. 10, 1928.

*SUMMEREST*

For Swinging Couch Hammocks, Davenports, Mattresses, Mattress Pads, and Folding Camp or Outdoor Furniture.

Claims use since Sept. 26, 1928.

Ser. No. 274,064. THE PIERSON COMPANY, Rockford, Ill. Filed Oct. 20, 1928.




For Cabinets for Radio and Phonograph Apparatus, Not Including Radio Sets and Reproducing Apparatus.

Claims use since Aug. 25, 1928.

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## CLASS 33.

### Glassware.

Ser. No. 266,656. GEBRUDER HIRSCH & CO. G. M. B. H., Kunzendorf, Germany. Filed May 19, 1928.

*Ultravit*

For Window Glass, Hollow Glassware for Illuminating Purposes, Glass Lamp Shades, Glass Ornaments for Lighting Fixtures, Glass Bottles, Glass Jars, Glass Stoppers.

Claims use since April, 1927.

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Ser. No. 274,435. CHANCE BROTHERS AND CO. LIMITED, West Smethwick, England. Filed Oct. 29, 1928.

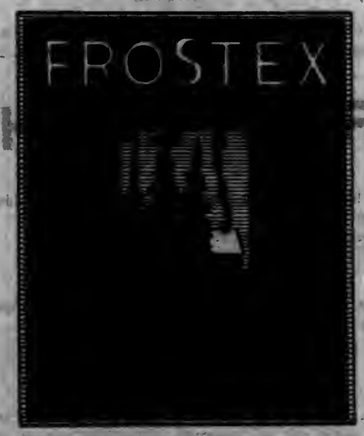
**SELENALYTE**

For Glass.

Claims use since Oct. 1, 1928.

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Ser. No. 274,730. PITTSBURGH PLATE GLASS COMPANY, Pittsburgh, Pa. Filed Nov. 2, 1928.




The background of drawing is in dark blue.

For Flat Glass, White in Color.

Claims use since Jan. 1, 1928.

## CLASS 34.

**Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.**

Ser. No. 270,938. GRETON W. OLMSTED, doing business as Southern Water Heater Company, Los Angeles, Calif. Filed Aug. 13, 1928.

SOUTHERN

For Gas-Burning Water Heaters.
Claims use since July 25, 1926.

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Ser. No. 272,605. JOHN F. DUNN, doing business as John Wood Mfg. Co., Los Angeles, Calif. Filed Sept. 18, 1928.



For Gas Water Heaters.
Claims use since Sept. 10, 1928.

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Ser. No. 273,095. AMERICAN RADIATOR COMPANY, East Orange, N. J., and New York, N. Y. Filed Sept. 28, 1928.

REDFLASH

For House-Heating Boilers, Burning Solid, Liquid, or Gaseous Fuel.
Claims use since about June 10, 1928.

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Ser. No. 274,219. PETER GRAY & SONS INC., Cambridge, Mass. Filed Oct. 24, 1928.

AIRSTAT

For Humidifiers for Use with Radiators, Registers, and the Like.
Claims use since Jan. 24, 1927.

## CLASS 35.

**Belting, Hose, Machinery Packing, and Non-metallic Tires.**

Ser. No. 256,202. MERCHANTS TIRE COMPANY, St. Louis, Mo. Filed Oct. 27, 1927.

ALL YEAR.

For Rubber Automobile Tires, Tire Tubes, and Tire Covers.
Claims use since Oct. 3, 1927, on tubes, and since Oct. 4, 1927, on tires and tire covers.

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Ser. No. 270,266. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed July 27, 1928.

AIRFLEX

For Rubber Tires for Vehicles.
Claims use since June 27, 1928.

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Ser. No. 273,696. GREENE, TWEED & Co., New York, N. Y. Filed Oct. 12, 1928.

CUTNO

For Packing for Use in Stuffing Boxes That Come in Contact with a Fluid Containing Caustic Soda, or Other Chemicals of an Alkali Nature.
Claims use since Oct. 1, 1928.

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Ser. No. 273,697. GREENE, TWEED & Co., New York, N. Y. Filed Oct. 12, 1928.

PELRO

For Packing for Use in Stuffing Boxes That Come in Contact with Gasoline, Alcohol, Naphtha, and Other Distillates of Petroleum.
Claims use since Oct. 1, 1928.

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## CLASS 36.

**Musical Instruments and Supplies.**

Ser. No. 272,743. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio. Filed Sept. 20, 1928. Under 10-year proviso.

RAYMOND

For Pianos, Player Pianos, Piano Players, Reproducing Pianos, Organs, Accordions, Autoharps, Automatic Harps, Alto Horns, Alto Clarinets, Bagpipes, Banjos, Banjo Mandolins, Tenor Banjos, Banjo Ukuleles, Bandoleons, Baritone Horns, Bass Clarinets, Bass Drums, Bass Viols, Bass Horns, Bassoons, Orchestra Bells, Blow Accordions, Bones, Bugles, Castanets, Cellos, Tom-Toms, Clarinets, Coaching Horns, Concert Horns, Concertinas, Cornets, Cymbals, Chinese Cymbals, Drums, English Horns, Euphoniums, Fifes, Flageolets, Flutes, Folding Organs, Chinese Gongs, Guitars, Banjo Guitars, Hawaiian Guitars, Mouth Organs and Flute Harmonicas, Harps, Hautboys, Heckelcas, Jews-Harps, Kazoos, Kettledrums, Mandolins, Marimbas, Melophones, Metronomes, Oboes, Ocarinas, Piccolos, Saxophones, Sarrusophones, Slide Trombones, Tambourines, Trombones, Trumpets, Tuning Forks, Tuning Pipes, Tympani, Ukuleles, Violas, Violins, Violoncellos, Violin Bows, Xylophones, Zithers, and Strings and Parts of Such Musical Instruments.
Claims use since Jan. 1, 1892.

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## CLASS 37.

**Paper and Stationery.**

Ser. No. 264,137. CARL FR. BRAUER G. M. B. H., Stettin, Germany. Filed Apr. 2, 1928.

ARLAC

For Duplicating Machine Utilizing Stencils, Japanese Fibrous Paper, Wax Stencil Sheets, Indestructible Stencil Sheets, Stencil Sheets Made of Japanese Fibrous Paper, Oiled Paper Sheets, Protecting Sheets for Stencils, Paper Backing Sheets for Stencils, Impression Paper Adapted for Mimeographing, Hectographing, and Multigraphing Purposes, Hectograph Sheets, Hectograph Duplicating Devices.
Claims use since 1909.

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Ser. No. 264,896. TRANSO ENVELOPE COMPANY, Chicago, Ill. Filed Apr. 5, 1928.

*Trans-O-pake*

No claim is made to trade-mark rights in "O-pake" apart from the mark as shown in the drawing.
For Envelopes.
Claims use since Nov. 1, 1927.

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Ser. No. 271,618. THE NATIONAL TOWEL VENDOR COMPANY, San Francisco, Calif. Filed Aug. 27, 1928.

DUO-SERVICE

The word "Service" is disclaimed except as associated with the trade-mark.
For Paper Towels.
Claims use since Apr. 12, 1928.



Ser. No. 272,846. AMERICAN LOOSE LEAF CORPORATION, New York, N. Y. Filed Sept. 24, 1928.

THE FILE-BUILDER

The word "File" appearing on the drawing is disclaimed apart from the mark shown.
For Loose-Leaf Binders for Temporarily and Permanently Binding Loose-Leaf Sheets.
Claims use since June 1, 1928.

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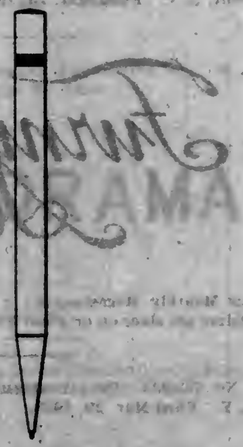
Ser. No. 272,940. NOAH HOLT, Pueblo, Colo. Filed Sept. 25, 1928.

MULTIPLO

For Laboratory Reports—Namely, Printed Forms.
Claims use since Feb. 1, 1928.

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Ser. No. 273,196. MABIE TODD & Co., New York, N. Y. Filed Oct. 1, 1928.



The mark consists of a yellow band bordered by green bands, the whole arbitrarily disposed on the goods in a manner shown in the drawing, but no specific claim is made to the article itself.
For Fountain Pens and Mechanical Pencils.
Claims use since Mar. 2, 1927.

## CLASS 38.

### Prints and Publications.

Ser. No. 248,179. JAMES LESLIE HUBBELL, Cleveland, Ohio. Filed Apr. 29, 1927.

4th DIMENSION ADVERTISING

No claim is made to the word "Advertising" appearing on the drawing apart from its association with the rest of the mark shown.

For Printed Advertising Matter Sold to the Trade as Such—Namely, Cards, Catalogue Sheets, Folders, and Printed Pictures Arranged in Consecutive Order to Indicate Action.

Claims use since Jan. 10, 1927.

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Ser. No. 260,277. KING FEATURES SYNDICATE, INC., New York, N. Y. Filed Jan. 18, 1928.

Felix

For Newspaper Cartoons.
Claims use since Aug. 19, 1923.

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Ser. No. 263,633. BARBER-HALL PRINTING COMPANY, High Point, N. C. Filed Mar. 23, 1928.

*Furniture South*

For Monthly Magazine.
Claims use since on or about Feb. 1, 1928.

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Ser. No. 263,936. DELL PUBLISHING COMPANY, New York, N. Y. Filed Mar. 29, 1928.

TRUE WAR STORIES

For Magazine Published Biweekly.
Claims use since Feb. 10, 1928.

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Ser. No. 264,632. BEATRIX SHERMAN BELSH, New York, N. Y. Filed Apr. 10, 1928.




The Words "Silhouette Iron-Upons" being descriptive of goods are disclaimed apart from the mark shown.

For Adhesive-Foil Silhouettes, Designs, and Figures.
Claims use since Feb. 28, 1928.

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Ser. No. 273,834. NEEDLECRAFT PUBLISHING COMPANY, Augusta, Me. Filed Oct. 15, 1928.

NEEDLECRAFT
The Magazine of Home Arts

For Monthly Magazines.
Claims use since October, 1928.

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Ser. No. 273,926. MAGUS PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 17, 1928.

McCLURE'S

For Monthly Publication.
Claims use since June 1, 1893.

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Ser. No. 273,947. THRIFT INC., Stockton, Calif. Filed Oct. 17, 1928.

THRIFT

For Merchandise Coupons and Books in Which the Same are Contained.
Claims use since on or about Nov. 20, 1914.



Ser. No. 273,972. THE LAWYERS CO-OPERATIVE PUBLISHING COMPANY, Rochester and New York, N. Y. Filed Oct. 18, 1928.

OHIO JURISPRUDENCE

For Series of Law Books, Including Extracts Therefrom Published as Separate Booklets.
Claims use since Nov. 28, 1927.

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Ser. No. 273,981. NATIONAL ASSOCIATION FOR THE ADVANCEMENT OF COLORED PEOPLE, New York, N. Y. Filed Oct. 18, 1928.

THE CRISIS

For Illustrated Magazine Published Monthly.
Claims use since November, 1910.

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Ser. No. 273,992. BINNEY & SMITH CO., New York, N. Y. Filed Oct. 19, 1928.

*The* DRAWING TEACHER

For Periodic Publication.
Claims use since January, 1926.

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Ser. No. 274,007. ALBERT G. HOWARD, Trion, Ga. Filed Oct. 19, 1928.

COUPO-CLUB

For Coupon Books.
Claims use since Sept. 15, 1928.

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Ser. No. 274,102. WINIFRED R. DUDDEN, Seattle, Wash. Filed Oct. 22, 1928.




For Magazine.
Claims use since August, 1928.

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Ser. No. 274,147. EMMA CLAIRE DAVIS, doing business as Paxette, Brookline, Mass. Filed Oct. 23, 1928.

Wings of The Morning

For Publication Issued Intermittently.
Claims use since Oct. 3, 1928.

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Ser. No. 274,215. FEDERATED BUSINESS PUBLICATIONS, INC., New York, N. Y. Filed Oct. 24, 1928.

RUG PROFITS

For Monthly Printed Periodical or Trade Paper.
Claims use since Sept. 15, 1928.

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Ser. No. 274,243. UNION CARBIDE SALES COMPANY, New York, N. Y. Filed Oct. 24, 1928.

CARBIDE GAS

For Printed Publications Issued Quarterly.
Claims use since about Jan. 1, 1928.

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Ser. No. 274,277. PANORAMA PUBLISHING CO., INC., New York, N. Y. Filed Oct. 25, 1928.

PANORAMA

For Weekly Magazine.
Claims use since Oct. 1, 1928.

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Ser. No. 274,031. BRYAN DAVIS PUBLISHING COMPANY INC., New York, N. Y. Filed Nov. 1, 1928.

AVIATION ENGINEERING

For Magazine Published at Intervals.
Claims use since Oct. 5, 1928.

## CLASS 39.

### Clothing.

Ser. No. 255,834. THE B. R. BAKER-CLEVELAND COMPANY, Cleveland, Ohio. Filed Oct. 10, 1927.




Applicant disclaims any right to the exclusive use of the geographical term "Cleveland." The lining on the drawing indicates the color red, which is claimed as a feature of the mark.

For Young Men's and Boys' Suits for Outer Wear, Overcoats, Negligee and Dress Shirts, Neckties, Cravats, Silk and Woolen Scarfs and Mufflers, Suspenders, Belts in the Nature of Garment Supporters, and for Outer Wear, Hosiery, Garters; Shoes of Leather, and a Combination of Leather, Rubber, and Fabrics; Hats, Woolen and Linen Knickers, and Underwear of Both Knitted and Textile Fabrics.

Claims use since Sept. 15, 1926.

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Ser. No. 256,600. ADMIRABLE CLOTHES, INC., New York, N. Y. Filed Oct. 26, 1927.

COUNTRY CLUB

*Clothes*

No claim is made to the exclusive use of the word "Clothes" apart from the mark as shown in the drawing.

For Men's and Young Men's Suits, Overcoats of Textile Material, and Topcoats of Textile Material.

Claims use since Sept. 27, 1927.

Ser. No. 261,038. IRVING LOUIS, doing business as La-Chic-Parisian, Brooklyn, N. Y. Filed Feb. 13, 1928.

La Chic Parisian



The word "Parisian" is disclaimed apart from the mark shown in drawing. The representation of the woman is fanciful and not a portrait.

For Ladies' Gowns, Dresses.

Claims use since Jan. 5, 1926.

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Ser. No. 264,046. PERRIN GLOVE COMPANY, INC., New York, N. Y. Filed Mar. 30, 1928.

SUÈDEX

For Leather Gloves.

Claims use since November, 1922.

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Ser. No. 264,176. MAGNUS IMPORTS, LTD., doing business as John Shannon & Son, Ltd., New York, N. Y. Filed Apr. 2, 1928.

"WOOLY BOY"

For Men's Overcoats, Sport Coats, Topcoats, and Boys', Women's, and Misses' Garments—Namely, Sport Coats and Sweaters.

Claims use since March, 1927.

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Ser. No. 266,002. HARRY WEINBERGER, New York, N. Y. Filed May 5, 1928.




No claim is made to the word "Cushion" and to the representation of the goods apart from the mark shown in the drawing.

For Rubber Heels.

Claims use since December, 1927.



Ser. No. 266,557. ROBERT REIS & Co., New York, N. Y. Filed May 17, 1928.

JIMSHIRT

No claim is made to the exclusive right to the use of the word "Shirt" apart from the mark shown.

For Athletic or Pull-Over Shirts Made of Knitted Materials.

Claims use since January, 1922.

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Ser. No. 267,086. HARRY SIX & SON, INC., New York, N. Y. Filed May 26, 1928.

Lomden's

For Shoes.

Claims use since Apr. 17, 1928.

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Ser. No. 267,225. BEST & Co., New York, N. Y. Filed May 31, 1928.

BEST-FLEX

Registration rights in the word "Best" are disclaimed except in association with the rest of the trade-mark.

For Shoes of Leather or Fabric or Combinations of Those Materials.

Claims use since Feb. 1, 1928.

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Ser. No. 267,531. CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed June 6, 1928.

VELVASHEEN

For Knitted Underwear for Women and Children.

Claims use since July 20, 1926.

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Ser. No. 268,576. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed June 26, 1928.

MIKADO

For Men's and Women's Straw Hats.

Claims use since Aug. 15, 1926.

Ser. No. 268,683. JOHN EBBERTS SHOE COMPANY, INC., Buffalo, N. Y. Filed June 26, 1928.

*Sister's Service*

The word "Service" apart from the mark is disclaimed.

For Shoes Made Mainly of Leather.

Claims use since Nov. 14, 1927.

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Ser. No. 268,684. JOHN EBBERTS SHOE CO., INC., Buffalo, N. Y. Filed June 26, 1928.

Trained Nurse

For Shoes Made Mainly of Leather.

Claims use since July 8, 1921.

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Ser. No. 269,457. THE H. W. GOSSARD CO., Chicago, Ill., now, by change of name, Associated Apparel Industries, Inc. Filed July 12, 1928.

*College Girl*

For Corsets, Corset Combinations (One-Piece Garments), Corset Step-Ins (No Front or Side Openings), Garter Belts, Brassières, and Underwear of Cotton and Silk Textile Fabric for Women and Children.

Claims use since November, 1905.

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Ser. No. 269,576. LOUIS CASHMAN, New York, N. Y. Filed July 14, 1928.

CASHANESE

SHRINK-PRUF

No claim is made to the words "Shrink-Pruf" apart from the mark shown in the drawing.

For Women's and Children's Underwear Made of Milanese Material—Namely, Slips, Bloomers, Chemise and Step-Ins, Night Gowns, Vests, Bandeaux, Petticoats, Pajamas, Dressing Sacques.

Claims use since May 2, 1928.

Ser. No. 269,883. ALBOWA DEUTSCHE STRICKEREI AKTIENGESELLSCHAFT, Chemnitz, Germany. Filed July 20, 1928.

Stern of Stuttgart

For Hosiery, Sweaters and Pull-Overs, Caps for the Use of Children, Scarfs, Knitted Dresses and Skirts for Outer Wear, Knitted Pants for Outer Wear, and Boys' Suits.
Claims use since Mar. 7, 1928.

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Ser. No. 270,167. BLUE STAR KNITTING COMPANY, Milwaukee, Wis. Filed July 26, 1928.

BLUE STAR

The word "Quality" is disclaimed apart from the mark as shown on the drawing.
For Infants' Knitted Underwear.
Claims use since January, 1920.

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Ser. No. 270,281. DAVISON-PAXON COMPANY, Atlanta, Ga. Filed July 28, 1928.

Southstrand

For Men's Outside Suits Comprising Coats, Vests, and Trousers.
Claims use since June 20, 1928.

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Ser. No. 270,982. THE UNION SPECIAL OVERALL COMPANY, Cincinnati, Ohio. Filed Aug. 13, 1928.

SAFETY BLOCK

For Clothing—viz, Work Trousers, Coveralls, Overalls, Coats, Work Shirts, Aprons, Fabric Gloves, Gloves of Leather and Fabric in Combination, and Play Suits.
Claims use since Jan. 1, 1917.

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Ser. No. 272,036. JEFFERSON IMPORT CO., INC., New York, N. Y. Filed Sept. 7, 1928.

WEAVETTE Sandals

The word "Sandals" is disclaimed apart from the mark shown on the drawing.
For Leather Shoes.
Claims use since on or about Sept. 1, 1927.

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Ser. No. 272,468. CADET KNITTING COMPANY, Philadelphia, Pa. Filed Sept. 15, 1928.

CHEVRON

For Hosiery.
Claims use since Aug. 16, 1928.

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Ser. No. 272,492. HOLEPROOF HOSIERY CO., Milwaukee, Wis. Filed Sept. 15, 1928.

Poetique Heel

The word "Heel" is disclaimed apart from the other features of the mark shown in the drawing.
For Hosiery.
Claims use since Sept. 12, 1928.

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Ser. No. 272,580. ROBERT REIS & CO., New York, N. Y. Filed Sept. 17, 1928.

SPORTOCRAT

For Bathing Suits, Sweaters, and Knit and Woven Underwear for Males.
Claims use since about March, 1926.



Ser. No. 272,608. FIRESTONE FOOTWEAR COMPANY, Hudson, Mass. Filed Sept. 18, 1928.

The Mark of Quality

Exclusive use of the words "The Mark of Quality" is disclaimed apart from the mark shown in the drawing.
For Footwear of Rubber, Fabric, and Rubber and Fabric—Namely, Boots, Shoes, Rubbers, Overshoes, Sandals, Pacs, Arctics, Galoshes, Gaiters, and Separate Heels and Soles Thereof.
Claims use since Aug. 16, 1928.

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Ser. No. 272,711. HERMAN GREENBERG, doing business as The Petite Shoppe, Niles and Benton Harbor, Mich. Filed Sept. 20, 1928.

ROXY FROCKS

No claim is made to the word "Frocks" apart from the mark shown.
For Women's and Misses' Dresses and Hats.
Claims use since about Aug. 1, 1928.

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Ser. No. 272,716. INTERNATIONAL CORSET COMPANY, Aurora, Ill. Filed Sept. 20, 1928.

B Slim

For Combination Foundation Garments in the Nature of Combination Corsets and Brassières.
Claims use since Sept. 1, 1928.

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Ser. No. 272,838. WALTHER LOEWENDAHL SHOE CO., INC., New York, N. Y. Filed Sept. 22, 1928.

SUNNYDAY

For Women's Sandals Made of Leather, Fabric, or Paper or Combinations Thereof.
Claims use since Aug. 31, 1928.

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Ser. No. 272,979. CONDUIT AND GOLD, Chicago, Ill. Filed Sept. 26, 1928.




The drawing is lined horizontally and vertically to indicate the colors blue and red, respectively.
For Cravats, Hats, Caps, Trousers, and Outer Shirts for Boys; Children's Belts, Leather Shoes, Hosiery, Coats, Leather Gloves, Knitted Underwear, and Bathing Suits.
Claims use since Sept. 1, 1928.

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Ser. No. 273,003. P. A. NEWMARK & CO., INC., Los Angeles, Calif. Filed Sept. 26, 1928.

Wilshire

The color in shading indicates black and yellow, the word "Wilshire" being in black, the border of triangle being in yellow, the interior of triangle, except the "W," being in black, and the ornamentation outside the triangle being in yellow.
For Men's and Boys' Dress Shirts, and Shirts of Collar-Attached and Collar-to-Match Styles, Collars, Pajamas, Night Robes, Neckties, Lounging Robes, Dressing Gowns, and Smoking Jackets.
Claims use since Sept. 4, 1928.

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Ser. No. 273,016. SCATAFI CHEMICAL CO., INC., Brooklyn, N. Y. Filed Sept. 26, 1928.

MEDISOLE

For Insole for Shoes, Said Insole Being Impregnated with a Deodorant and Perspiration Remover.
Claims use since Sept. 10, 1928.

Ser. No. 273,038. WEYENBERG SHOE MFG. CO., Milwaukee, Wis. Filed Sept. 26, 1928.

DOCTO-PEDIC

For Leather Shoes.
Claims use since Aug. 30, 1928.

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Ser. No. 273,067. THOMAS G. PLANT CORPORATION, Boston, Mass. Filed Sept. 27, 1928.

Queen Quality
NURSEASE

For Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or Other Fabric Construction.
Claims use since Sept. 18, 1928.

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Ser. No. 273,079. THE STYLE DRESS CO., INC., New York, N. Y. Filed Sept. 27, 1928.




The words "The Largest Dress Manufacturers in the World" are disclaimed apart from the mark as shown in the drawing.
For Women's and Misses' Dresses.
Claims use since Jan. 15, 1917.

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Ser. No. 273,080. THE STYLE DRESS CO., INC., New York, N. Y. Filed Sept. 27, 1928.




The words "The Largest Dress Manufacturers in the World" and "Style Dress" are disclaimed apart from the mark shown in the drawing.
For Women's and Misses' Dresses.
Claims use since Jan. 15, 1917.

Ser. No. 273,081. THE STYLE DRESS CO., INC., New York, N. Y. Filed Sept. 27, 1928.




The words "The Largest Dress Manufacturers in the World" are disclaimed apart from the mark shown.
For Women's and Misses' Dresses.
Claims use since Jan. 15, 1917.

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Ser. No. 273,082. THE STYLE DRESS CO., INC., New York, N. Y. Filed Sept. 27, 1928.




All words appearing on the drawing except "The Style Dress Co. Inc." are disclaimed.
For Women's and Misses' Dresses.
Claims use since Jan. 15, 1917.

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Ser. No. 273,149. LUMS KNITTING COMPANY, Pawtucket, R. I. Filed Sept. 29, 1928.

Spunlight

For Knit Underwear for Men, Women, and Children.
Claims use since Sept. 1, 1928.

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Ser. No. 273,241. NEUSTADTER BROS., San Francisco, Calif. Filed Oct. 2, 1928.

Park Mill

For Men's, Boys', and Youths' Hosiery Made of Cotton, Silk, Wool and Worsted, Rayon, and Artificial Silk of All Kinds.
Claims use since Jan. 1, 1926.



Ser. No. 273,242. NEW YORK EXPORT CO., New York, N. Y. Filed Oct. 2, 1928.




Exclusive use of the words "Knit Hosiery" apart from the mark as shown in the drawing is disclaimed. The lining indicates shading only.
For Men's, Women's, and Children's Hosiery.
Claims use since Aug. 28, 1928.

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Ser. No. 273,317. ROGERS PEET COMPANY, New York, N. Y. Filed Oct. 3, 1928.

Long-O

For Men's and Boys' Hats.
Claims use since Sept. 25, 1928.

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Ser. No. 273,318. ROGERS PEET COMPANY, New York, N. Y. Filed Oct. 3, 1928.

Round-O

For Men's and Boys' Hats.
Claims use since Sept. 25, 1928.

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Ser. No. 273,326. THE STETSON SHOE COMPANY, INC., Weymouth, Mass. Filed Oct. 3, 1928.




No claim is made to the words "The" or "Shoe" apart from the mark as shown on the drawing.
For Leather Boots and Shoes for Men, Women, and Children.
Claims use since Oct. 1, 1928.



Ser. No. 273,363. HARRY DAROFF & SONS, Philadelphia, Pa. Filed Oct. 4, 1928.




No claim is made to the pictorial representation of an unfinished garment except in the combination shown.
For Outer Suits for Men and Boys.
Claims use since Nov. 1, 1927.

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Ser. No. 273,407. THE M. MOORE SHIRT FACTORIES CO., Canton, Ohio. Filed Oct. 5, 1928.

The Big Moore

No registration rights are claimed for the word "Moore" apart from the mark as shown in the drawing.
For Men's Work Shirts.
Claims use since Apr. 11, 1921.

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Ser. No. 273,424. WEST POINT KNITWEAR MILLS, Philadelphia, Pa. Filed Oct. 5, 1928.



For Knitted Swimming Suits, Bathing Suits, and Sweaters for Women and Children.
Claims use since July 15, 1928.

Ser. No. 273,490. DARTMOOR COAT CO. INC., New York, N. Y. Filed Oct. 8, 1928.

*Rumble Seat*

For Women's and Men's Topcoats.
Claims use since May, 1928.

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Ser. No. 273,505. MARATHON SHOE CO., Wausau, Wis. Filed Oct. 8, 1928.

*Foot Soothers*

For Leather Shoes.
Claims use since June 16, 1928.

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Ser. No. 273,622. ALBERTA MILLS, INC., Philadelphia, Pa. Filed Oct. 11, 1928.

SUN TAN

For Bathing Suits, Sun-Bath Suits, and Slip-Ons for Bathing and Sun-Bath Suits.
Claims use since about August, 1928.

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Ser. No. 273,687. FINLAY, HOLT & CO. LTD., New York, N. Y. Filed Oct. 12, 1928.




No claim is made to the word "Quality" apart from the mark as shown.
For Hosiery.
Claims use since Sept. 28, 1928.

Ser. No. 273,772. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

ENSIGN

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,773. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

GUVENOR

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,774. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

COMMANDER

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.



Ser. No. 273,775. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

COMMODORE

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,776. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

ADMIRAL

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,777. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

CAPTIN

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,778. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

PRESIDENT

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,779. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

HARVESTER

For Gloves and Mittens Made of Fabric and Combinations of Rubber and Fabric.
Claims use since Sept. 25, 1928.

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Ser. No. 273,780. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 13, 1928.

BOSS

HOME RUN

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,781. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 18, 1928.

TRUMP

For Gloves and Mittens Made of Fabric and Combinations of Leather and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,782. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 18, 1928.

WORKADE

For Gloves and Mittens Made of Fabric and Combinations of Rubber and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,805. FRANK G. DELSON, Brooklyn, N. Y. Filed Oct. 15, 1928.

TRIPED

For Leather Shoes.
Claims use since Nov. 3, 1927.

Ser. No. 273,809. ENDICOTT JOHNSON CORPORATION, Endicott, N. Y. Filed Oct. 15, 1928.

BOYS CLUB

For Leather Shoes.
Claims use since about Sept. 25, 1928.

Ser. No. 273,898. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 17, 1928.

KING BEE

For Gloves and Mittens Made of Fabric and Combinations of Rubber and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,899. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y. Filed Oct. 17, 1928.

BOSS

WINNER

For Gloves and Mittens Made of Fabric and Combinations of Rubber and Fabric.
Claims use since Sept. 25, 1928.

Ser. No. 273,958. JOS. S. COHEN & SONS CO. INC., New York, N. Y. Filed Oct. 18, 1928.

True-Maid

For Smocks and Aprons.
Claims use since about Mar. 15, 1928.

Ser. No. 274,055. JORDAN MARSH COMPANY, Boston, Mass. Filed Oct. 20, 1928.

BELMODE

For Boots and Shoes of Leather and of Textile Fabric.
Claims use since on or about Aug. 1, 1928.

Ser. No. 274,143. BEST & CO., INC., New York, N. Y. Filed Oct. 23, 1928.

CHUKKER

For Sweaters, Sweater Coats and Vests, and Hosiery, Woven, Knitted, or Netted, for Men, Women, and Children.
Claims use since Sept. 22, 1928.

Ser. No. 274,148. DIETZ, BARNETT & SILVER, New York, N. Y. Filed Oct. 23, 1928.

WEAR-GARD

For Men's and Boys' Coats and Suits.
Claims use since Oct. 12, 1928.



Ser. No. 274,158. IDEAL SHOE MANUFACTURING CO., Milwaukee, Wis. Filed Oct. 23, 1928.

Arch-Controller

For Boots and Shoes of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since Nov. 10, 1927.

Ser. No. 274,162. LILLIAN KNITTING MILLS CO., Albemarle, N. C. Filed Oct. 23, 1928.

Lillian Hosiery

No claim is made to the exclusive use of the word "Hosiery" apart from the mark as shown on the drawing.
For Women's, Misses', and Children's Hosiery.
Claims use since May 1, 1927.

Ser. No. 274,347. LA CROSSE CLOTHING COMPANY, La Crosse, Wis. Filed Oct. 26, 1928.

The Gaucho

For Work Clothing—Namely, Overalls, Jumpers, Work Pants, and Work Coats.
Claims use since July 2, 1928.

Ser. No. 274,353. MAX NATHANSON, doing business as Charmray Mfg. Co., Chicago, Ill. Filed Oct. 26, 1928.



Charmray

For Knitted Rayon Underwear for Women and Children.
Claims use since June 15, 1928.

## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 272,439. SOUTHERN WEBBING MILLS, INC., Guilford County, near Greensboro, N. C. Filed Sept. 14, 1928.

Marquise

No claim is made to the pictorial representation of the end of a reel disassociated from the trade-mark shown.
For Narrow Elastic Tape Sold by the Yard.
Claims use since on or about June 25, 1928.

Ser. No. 272,440. SOUTHERN WEBBING MILLS, INC., Guilford County, near Greensboro, N. C. Filed Sept. 14, 1928.

Bluebird

The drawing is lined to indicate the color blue; but that color is not essential and is not claimed per se, nor is claim made to the pictorial representation of the end of a reel disassociated from the trade-mark shown.
For Narrow Elastic Tape Sold by the Yard.
Claims use since on or about July 1, 1928.

Ser. No. 273,464. HANOVER RUBBER CO. "EXCELSIOR" INC., New York, N. Y. Filed Oct. 6, 1928.

Excelsior

For Combs Except Combs Made from Precious Metal.
Claims use since June 15, 1896.

## CLASS 41.

### Canes, Parasols, and Umbrellas.

Ser. No. 267,345. BORZONE, MARENGO & CO., Buenos Aires, Argentina. Filed June 2, 1928.

LITOSLAZULI

For Marble Handles for Canes, Parasols, and Umbrellas. Claims use since May, 1927.

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## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

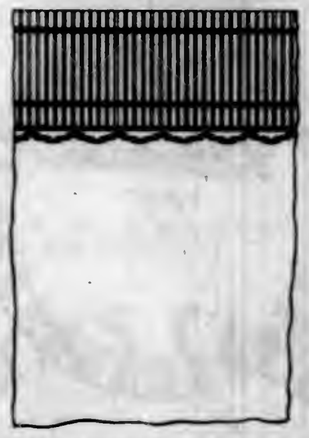
Ser. No. 267,678. WIENER WERKSTÄTTE GESELLSCHAFT M. B. H., Vienna, Austria. Filed June 7, 1928.



For Printed Crepe, Silk Crepe, Crêpe de Chine, Pongee, Linen, Reps, and Maline, All in the Piece.
Claims use since November, 1913.

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Ser. No. 271,240. HAENICHEN BROS. SILK CO., Paterson, N. J. Filed Aug. 18, 1928.



The representation of the goods is disclaimed. Applicant is the owner of registration No. 199,988.
For Umbrella Silk Piece Goods.
Claims use since Aug. 2, 1928.

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Ser. No. 271,823. RICE-STIX DRY GOODS CO., St. Louis, Mo. Filed Aug. 31, 1928.

Princess-Anne

For Textile Piece Goods of Cotton, Wool, Silk, Vegetable Fiber, Linen, and Any Combinations or Mixtures Thereof.
Claims use since July 17, 1928.

Ser. No. 273,168. WECHSLER-BARBER SILK COMPANY, INC., New York, N. Y. Filed Sept. 29, 1928.

SKIPPY

For Piece Goods of Silk and Mixtures of Silk and Wool.
Claims use since Sept. 18, 1928.

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Ser. No. 274,354. NIPPON DRY GOODS COMPANY, San Francisco, Calif. Filed Oct. 26, 1928.




For Handkerchiefs.
Claims use since July 1, 1922.

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Ser. No. 274,370. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed Oct. 26, 1928.

Peasant Prints

No claim is made to the word "Prints" except in the association shown.
For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.
Claims use since Apr. 1, 1928.

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Ser. No. 274,371. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J. Filed Oct. 26, 1928.

Treasures of the Orient Prints

No claim is made to the word "Prints" except in the association shown.
For Piece Goods of Silk and of Silk Mixed with Any One or More of the Following—Namely, Cotton, Linen, Wool, and Rayon.
Claims use since Apr. 1, 1928.

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Ser. No. 274,626. ARTHUR BEIR & CO., INC., New York, N. Y. Filed Nov. 1, 1928.

Merriglo

For Rayon Piece Goods.
Claims use since Sept. 15, 1928.



Ser. No. 274,689. ZOLLINGER & SCHROTH, INC., New York, N. Y. Filed Nov. 1, 1928.

CREPE MAUVEREEN

No rights are asserted to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Silk Piece Goods.
Claims use since Oct. 10, 1928.

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Ser. No. 274,691. ZOLLINGER & SCHROTH, INC., New York, N. Y. Filed Nov. 1, 1928.

TANIA CREPE

No rights are asserted to the exclusive use of the word "Crepe" apart from the mark as shown in the drawing.
For Silk Piece Goods.
Claims use since Oct. 10, 1928.

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Ser. No. 274,768. CHENEY BROTHERS, South Manchester, Conn. Filed Nov. 3, 1928.

Clariole

For Woven, Knitted, Netted, Textile, and Pile Fabrics in the Piece Comprised in Whole or in Part of Silk.
Claims use since Oct. 29, 1928.

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## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 268,118. SOLRAY COMPANY INCORPORATED, Chicago, Ill. Filed June 15, 1928.

Solray
ULTRA-VIOLET

No claim is made to the word "Ultra-Violet" apart from the mark shown on the drawing.
For Ultra-Violet Lamps Which are Used for Therapeutic Purposes.
Claims use since May 1, 1928.

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Ser. No. 269,587. J. A. HENCKELS, Solingen, Germany. Filed July 14, 1928.

TWIN

For Nail Scissors, Cuticle Scissors, Surgical Shears, Corn Razors, Cuticle Nippers, Nail Nippers, Nail Clippers, Nail Files, Nail Cleaners, Cuticle Pushers, Manicure Tweezers, Corn Knives, Cuticle Knives, Manicure Sets.
Claims use since January, 1927.

Ser. No. 270,761. WALKER AND PASQUE, Detroit, Mich. Filed Aug. 8, 1928.

Beau-Ray

For Vibratory Massage and Beautifying Devices.
Claims use since June 1, 1928.

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Ser. No. 271,321. SAMUEL SOMMER, doing business as S. Sommer & Co., San Francisco, Calif. Filed Aug. 20, 1928.

NATURAL

For Permanent-Waving Machines and Parts Thereof.
Claims use since Feb. 10, 1928.

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Ser. No. 272,931. JOHN CECELIO, Boonton, N. J. Filed Sept. 25, 1928.

MOISTURETTES

For Permanent-Wave Curling Pads.
Claims use since Mar. 1, 1927.

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Ser. No. 274,001. AMERICAN EARPHONE CO., INC., New York, N. Y. Filed Oct. 19, 1928.

VIBRATUBE

For Conversation Tubes and Hearing Devices.
Claims use since Aug. 15, 1928.

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Ser. No. 274,169. OLYMPIA LABORATORY, New Orleans, La. Filed Oct. 23, 1928.

BLACK and GOLD

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Jan. 1, 1928.

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Ser. No. 274,172. OLYMPIA LABORATORY, New Orleans, La. Filed Oct. 23, 1928.




The word "Brand" is disclaimed apart from the other features of the mark shown on the drawing.
For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Jan. 1, 1927.

Ser. No. 274,549. MURCH R. CADY, Grand Rapids, Mich. Filed Oct. 30, 1928.

**M. R. W.**
**TUXEDOS**

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since January, 1927.

Ser. No. 274,550. MURCH R. CADY, Grand Rapids, Mich. Filed Oct. 30, 1928.

**English Checkers**

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since July, 1925.

## CLASS 45.

### Beverages, Nonalcoholic.

Ser. No. 232,722. PETER EIDENBERG, doing business as Kosmos Mineral Water Company, Philadelphia, Pa. Filed June 4, 1926.

**KOSMOS**

Applicant owns registered Trade-Mark No. 53,587, issued June 5, 1906.
For Carbonated Water and Ginger Ale.
Claims use since Aug. 1, 1904, as to carbonated water, and since about September, 1917, as to ginger ale.

Ser. No. 262,759. THOMAS W. MILNER, Rockford, Ill. Filed Mar. 7, 1928.

**BARREL HOUSE**

For Root Beer.
Claims use since June, 1927.

Ser. No. 270,814. THE WEST END BREWING CO., Utica, N. Y. Filed Aug. 9, 1928.

**Utica Club**



No claim is made to the word "Brand" apart from the mark as shown. The drawing is lined for red.
For Ginger Ale, Nonalcoholic Fruit Beverages, and Syrups for Making Soft Drinks.
Claims use since 1920.

Ser. No. 272,331. GOGGIN AND LOWN, Jacksonville, Fla. Filed Sept. 13, 1928.

**QUENCHO**
**ROOT BEER**

The words "Root Beer" are disclaimed apart from the mark shown in the drawing.
For Root Beer and Other Nonalcoholic, Maltless Beverages Sold as Soft Drinks.
Claims use since May 1, 1926.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 252,198. GLADBROOK PACKING CO., doing business as Gladbrook Mustard Factory, Long Beach, Calif. Filed July 18, 1927.

**CAL-D-LITE**

For Pickles.
Claims use since Oct. 10, 1926.

Ser. No. 253,039. NEW ENGLAND FISH CO., Seattle, Wash. Filed Aug. 4, 1927.

**Cosmopolitan**

For Canned Salmon.
Claims use since Mar. 1, 1927.

Ser. No. 258,280. PAR-X SERVICE CORPORATION, Philadelphia, Pa. Filed Dec. 1, 1927.

**PAR-X**

For Bread, Butter, and Eggs.
Claims use since Nov. 29, 1927.

Ser. No. 262,820. AARON UNGER, INC., New York, N. Y. Filed Mar. 8, 1928.




Applicant disclaims the descriptive words "Delight in Every Bite" apart from the mark as shown in the drawing.
For Candies, Fancy Dry Fruits, Russian Caviar, Sardines, Anchovies, Antipasto, Chocolate, and Cream.
Claims use since Jan. 31, 1928.



Ser. No. 263,765. MAURICE A. JOHNSON, Chicago, Ill. Filed Mar. 26, 1928.

**TANG**

No claim is made to the word "Tang" except in combination with the mark as shown.
For Mustard.
Claims use since Feb. 24, 1926.

Ser. No. 265,109. THE J. T. LARIMORE COMPANY, Foxboro, Mass. Filed Apr. 19, 1928.

*"Next to Mother, We Cook Best"*

For Bakery Products Including Bread, Rolls, Pies, Cakes, Cookies, Doughnuts, Tarts, Eclairs, Sandwiches, and Packaged Lunches.
Claims use since on or about Feb. 1, 1928.

Ser. No. 265,415. STONE-ORDEAN-WELLS COMPANY, Duluth, Minn. Filed Apr. 25, 1928.

**O'Boy**

For Jelly Powder.
Claims use since Feb. 23, 1928.

Ser. No. 265,843. HOFFMAN & CHADYS, INC., New Haven, Conn. Filed May 3, 1928.

**HC**

For Packaged Rice and Malt Extracts.
Claims use since Oct. 12, 1926.

Ser. No. 266,493. SPHINX CHOCOLATE CORPORATION, Brooklyn, N. Y. Filed May 16, 1928.

**Sphinx Hawaiian Treat**
**"A TREAT TO EAT"**

Applicant disclaims the words "A Treat to Eat."
For Chocolate Bars.
Claims use since Feb. 1, 1927.

Ser. No. 267,142. PHELPS & SIBLEY CO., INC., Cuba, N. Y. Filed May 28, 1928.

**TOFOR**

For Dairy Feed.
Claims use since Nov. 1, 1927.

Ser. No. 268,294. J. A. MEDINA COMPANY, New York, N. Y. Filed June 19, 1928.

**Z. H.**

For Green Coffee.
Claims use since Feb. 1, 1927.

Ser. No. 268,306. PARMA IMPORTING COMPANY, St. Louis, Mo. Filed June 19, 1928.

**Parma**
**GRATED CHEESE**

The representation of the goods and all wording are disclaimed apart from the mark shown in the drawing.
For Grated Cheese.
Claims use since Mar. 1, 1928.

Ser. No. 269,123. A. S. LA NASA BAKERY, New Orleans, La. Filed July 5, 1928.

Twinky Twins

For Bread.
Claims use since Jan. 1, 1928.

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Ser. No. 270,891. SOCIETE INDUSTRIELLE DES PRODUITS MELASSES, Marseille, France. Filed Aug. 11, 1928.

NÉOGUM

For Flour Made from Grain and Beans, Used in the Preparation of Preserves, Jams, and Jellies.
Claims use since Jan. 8, 1926.

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Ser. No. 272,268. KNUTE GREENQUIST, doing business as Huron Dairy Products Co., Huron, S. Dak. Filed Sept. 12, 1928.

Luxury

For Butter, Cottage Cheese.
Claims use since 1912.

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Ser. No. 272,391. COLONIAL MOLASSES CO. INC., Brooklyn, N. Y. Filed Sept. 14, 1928.

COLONIAL

For Molasses and Honey.
Claims use since June, 1924.

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Ser. No. 272,590. THE WEST END BREWING CO., Utica, N. Y. Filed Sept. 17, 1928.

Utica Club

The drawing is lined for red.
For Malt Syrup.
Claims use since July 5, 1928.

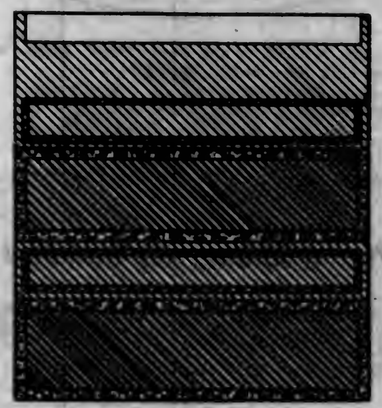
Ser. No. 272,715. JAMES IFFU, SONS & COMPANY, Crown Point, Ind. Filed Sept. 20, 1928.



For Canned Soup.
Claims use since Sept. 10, 1928.

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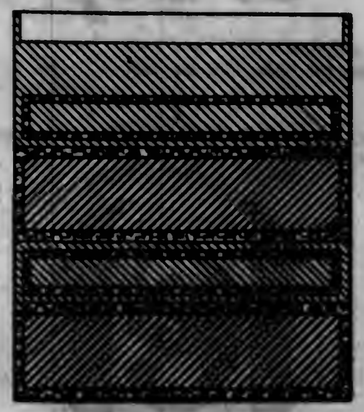
Ser. No. 272,836. VAL BLATZ BREWING CO., Milwaukee, Wis. Filed Sept. 22, 1928.



No claim is made to the outline of the label apart from the mark as shown. The drawing is lined to indicate light green, dark green, and gold.
For Chewing Gum.
Claims use since Aug. 25, 1927.

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Ser. No. 272,837. VAL BLATZ BREWING CO., Milwaukee, Wis. Filed Sept. 22, 1928.



No claim is made to the outline of the label apart from the mark as shown. The drawing is lined to indicate purple, green, and gold.
For Chewing Gum.
Claims use since Aug. 25, 1927.



Ser. No. 272,922. ANAHEIM CITRUS FRUIT ASSOCIATION, Anaheim, Calif. Filed Sept. 25, 1928.

BLUE VASE

For Fresh Citrus Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since May 12, 1925.

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Ser. No. 273,122. VIGNES-BOMMET GROCER COMPANY, INCORPORATED, Baton Rouge, La. Filed Sept. 28, 1928.

TOWN MAID

For Canned Fruits, Canned Vegetables, Coffees, Teas, Spices, Tomato Catsup, Chili Sauce, Vinegar, Pickles, Preserved Fruits, Jams, Jellies, Dried Fruits, Peanut Butter, Food-Flavoring Extracts, Candy; Table and Cooking Syrups—Namely, Malt Syrup, Cane Syrup, and Corn Syrup; and Wheat Flour.
Claims use since Sept. 20, 1928, on all goods except wheat flour, which has been used since January, 1927.

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Ser. No. 273,170. WESTERN MILK COMPANY, Salt Lake City, Utah. Filed Sept. 29, 1928.



The lining of drawing denotes the color red.
For Unsweetened Evaporated Milk.
Claims use since Sept. 7, 1928.

Ser. No. 273,375. JOHN H. NEWEL, doing business as Newel Food Products Company, Indianapolis, Ind. Filed Oct. 4, 1928.




For Noodles.
Claims use since on or about Aug. 29, 1928.

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Ser. No. 273,554. MARSHAK MALTMOLAK CO. INC., Brooklyn, N. Y. Filed Oct. 9, 1928.

PIKIT

For Chocolate Preparation for Dessert.
Claims use since Oct. 4, 1926.

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Ser. No. 273,666. NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed Oct. 11, 1928.

"HELPS"

For Licorice Candy.
Claims use since about April, 1928.

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Ser. No. 273,823. LIBBY, MCNEILL & LIBBY, Chicago, Ill. Filed Oct. 15, 1928.

Rose-Dale

For Malt Extracts.
Claims use since Aug. 11, 1928.

Ser. No. 273,868. GENTILE BROS. COMPANY, Cincinnati, Ohio. Filed Oct. 16, 1928.

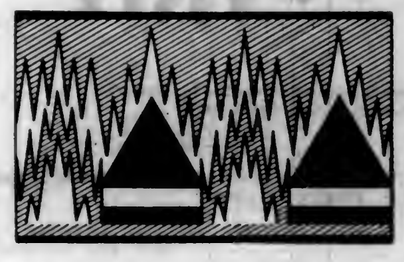
JAP ROSE



For Fresh Citrus Fruits, Fresh Deciduous Fruits, and Fresh Vegetables.
Claims use since July 21, 1928.

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Ser. No. 273,900. BUTLER CANDIES, INC., Elgin, Ill. Filed Oct. 17, 1928.



The drawing is lined to indicate shading.
For Candy.
Claims use since June 26, 1928.

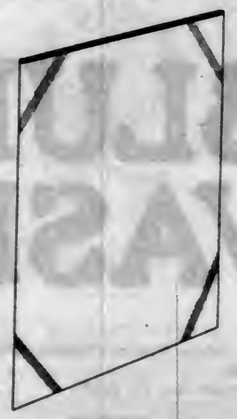
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Ser. No. 273,973. LEE-PRECOUR COMPANY, Oshkosh, Wis. Filed Oct. 18, 1928.

Valley Maid

For Coffee, Mustard, and Salad Dressing.
Claims use since June 1, 1928.

Ser. No. 274,084. ALBERT MILLER & COMPANY, Chicago, Ill. Filed Oct. 22, 1928.



The mark comprises red and blue diagonal stripes printed, stenciled, or painted on the face of the sacks in which the potatoes are shipped, the red stripes being located at the upper corners and the blue stripes at the lower corners of the sacks. No claim is made to the representation of the sack.
For Fresh Potatoes.
Claims use since May 5, 1928.

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Ser. No. 274,093. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Oct. 22, 1928.

BEECHIES

For Candy-Coated Chewing Gum.
Claims use since Apr. 21, 1926.

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Ser. No. 274,139. UNIVERSAL FRUITS CORPORATION, Cincinnati, Ohio. Filed Oct. 22, 1928.

ROYAL COURT

For Maraschino Cherries in Bottles, Preserved Fruits, Glacé Fruits, Chocolate-Coated Fruits, Salted Nuts, Marshmallow Topping, Nuts in Chocolate, Fruits in Chocolate, and Fruits and Nuts in Chocolate, and Olives.
Claims use since Aug. 24, 1928.

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Ser. No. 274,178. W & W PICKLE & CANNING CO., Montgomery, Ala. Filed Oct. 23, 1928.

FARMER BOY

For Pickles.
Claims use since February, 1928.



Ser. No. 274,179. THE WALNUT CREEK MILLING CO., INC., Great Bend, Kans. Filed Oct. 23, 1928.

ROSE OF KANSAS

For Wheat Flour.
Claims use since 1880.

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Ser. No. 274,186. ASMUS BROTHERS, Detroit, Mich. Filed Oct. 24, 1928.



For Birdseed.
Claims use since July 18, 1928.

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Ser. No. 274,306. A. H. BARBER & COMPANY, Chicago, Ill. Filed Oct. 26, 1928.

ZEST

For Cheese, Including Not Only Bulk Cheese, but Also Cheese in Small Packages or Containers and Processed, Remelted, or Blended Cheese.
Claims use since May, 1928.

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Ser. No. 274,346. IOWA BISCUIT COMPANY, Burlington, Iowa. Filed Oct. 26, 1928.

BRIDGE CLUB

For Cookies, Cakes, and Crackers.
Claims use since Oct. 17, 1928.

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Ser. No. 274,414. W & W PICKLE & CANNING CO., doing business as Lady Grace Pickle Co., Montgomery, Ala. Filed Oct. 27, 1928.

ALAFLAGA

For Pickles.
Claims use since February, 1928.

Ser. No. 274,434. BLUE EARTH CANNING COMPANY, Blue Earth, Minn. Filed Oct. 29, 1928.

Country Kist

For Canned Corn.
Claims use since Oct. 1, 1928.

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Ser. No. 274,446. J. H. FILBERT INC., Baltimore, Md. Filed Oct. 29, 1928.

HONEY-NUT

No claim is made to the word "Nut" apart from the mark shown.
For Oleomargarine.
Claims use since Oct. 1, 1926.

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Ser. No. 274,633. CHIPPEWA CANNING CO., Chippewa Falls, Wis. Filed Nov. 1, 1928.

GREEN BABIES



For Canned Vegetables.
Claims use since August, 1927.

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Ser. No. 274,639. GAZETT CANDY COMPANY, Green Bay, Wis. Filed Nov. 1, 1928.

QUAIL on TOAST

For Candy.
Claims use since Apr. 15, 1927.

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Ser. No. 274,663. NATIONAL KREAM CO., INC., New York, N. Y. Filed Nov. 1, 1928.

BONNYCRISP

For Doughnut Flour.
Claims use since Sept. 12, 1927.

Ser. No. 274,666. NATIONAL KREAM CO., INC., New York, N. Y. Filed Nov. 1, 1928.

Bonnycrisp

For Doughnuts.
Claims use since Sept. 16, 1927.

Ser. No. 274,762. CHAPIN & COMPANY, Chicago, Ill. Filed Nov. 3, 1928.

START~ALL

For Prepared Poultry Feeds.
Claims use since Feb. 18, 1928.

Ser. No. 274,763. CHAPIN & COMPANY, Chicago, Ill. Filed Nov. 3, 1928.

GROW~ALL

For Prepared Poultry Feeds.
Claims use since Mar. 26, 1928.

Ser. No. 274,764. CHAPIN & COMPANY, Chicago, Ill. Filed Nov. 3, 1928.

LAY~ALL

For Prepared Poultry Feeds.
Claims use since May 11, 1928.

## CLASS 48.

### Malt Beverages and Liquors.

Ser. No. 263,827. KINZINGER & D'HENGELIÈRE BÜRGERLICHES BRAUHAUS ZELL-WÜRZBURG, A. G., Wurzburg, Germany. Filed Mar. 27, 1928.

ORIGINAL
18 32
WUERZBURGER BUERGER BRAEU

The word "Braeu" is not claimed apart from the other features of the mark.
For Nonalcoholic, Cereal, Malt Beverages.
Claims use since Aug. 9, 1927.

## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 271,149. THE SELART CORPORATION, Baltimore, Md. Filed Aug. 16, 1928.

DUPLEX

For Shoe-Trees.
Claims use since June 18, 1928.

Ser. No. 271,573. THE SELART CORPORATION, Baltimore, Md. Filed Aug. 25, 1928.

PEAR-TREES

No claim is made to the word "Trees" apart from the mark shown in the accompanying drawing.
For Shoe-Trees.
Claims use since June 18, 1928.

Ser. No. 271,842. JOHN A. AGNEW, Philadelphia, Pa. Filed Sept. 1, 1928.

AGNEW SIGNS



BUILT TO LAST

The words "Signs Built to Last" are disclaimed apart from the mark as shown.
For Display and Advertising Signs of All Kinds Made of Wood, Metal, Oilcloth, Cardboard, Wire Mesh, Glass, Celluloid, or Analogous Materials, Whether Illuminated or Non-illuminated.
Claims use since on or about March, 1926.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 11, 1928.

250,379. POISON IN THE FORM OF A POWDER FOR KILLING SNAILS AND SLUGS. LAURA V. TAYLOR, doing business as Snail-A-Tor Laboratory, Los Angeles, Calif.
Filed July 31, 1928. Serial No. 270,400. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,380. LIQUID DRY CLEANER. MID-STATES CHEMICAL COMPANY, INC., St. Louis, Mo.
Filed July 31, 1928. Serial No. 270,384. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,381. DATES IN THE NATURAL STATE. AFRICAN & EASTERN TRADING CO. INCORPORATED, New York, N. Y.
Filed July 31, 1928. Serial No. 270,364. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,382. OINTMENTS USED IN THE TREATMENT OF COLDS, NEURALGIA, LUMBAGO, SORE THROAT, AND RHEUMATIC PAINS. SENOLA DRUG Co., Chicago, Ill.
Filed July 30, 1928. Serial No. 270,354. PUBLISHED OCTOBER 2, 1928. Class 6.

250,383. FERTILIZERS. LIMESTONE PRODUCTS CORPORATION OF AMERICA, Newton, N. J.
Filed July 30, 1928. Serial No. 270,342. PUBLISHED SEPTEMBER 25, 1928. Class 10.

250,384. PERIODICAL PUBLISHED MONTHLY. INTERNATIONAL JOURNAL OF SURGERY Co., INC., New York, N. Y.
Filed July 30, 1928. Serial No. 270,336. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,385. WHEAT FLOUR, EGGS, AND ROLLED OATS. AMERICAN STORES COMPANY, Philadelphia, Pa.
Filed September 26, 1925. Serial No. 220,828. PUBLISHED OCTOBER 19, 1926. Class 46.

250,386. GARAGE DOORS. OVERHEAD DOOR CORPORATION, Hartford City, Ind.
Filed August 20, 1925. Serial No. 219,134. PUBLISHED AUGUST 21, 1928. Class 12.

250,387. PIECE GOODS OF SILK, RAYON, AND COTTON AND MIXTURES OF THESE MATERIALS. ROTH, GOLDMAN CO., INC., New York, N. Y.
Filed August 15, 1928. Serial No. 271,087. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,388. BONELESS BOILED HAM, SUGAR-CURED CALAS, SUGAR-CURED HAM, BACON, BACON BELLIES, CORNED BEEF, PURE PORK SAUSAGE, OTHER SAUSAGES, AND SAUSAGE MEATS. PITTSBURGH PROVISION AND PACKING COMPANY, Pittsburgh, Pa.
Filed February 28, 1925. Serial No. 210,316. PUBLISHED OCTOBER 2, 1928. Class 46.

250,389. HAM, BOILED HAM, SKINNED HAM, AND BACON. J. T. MCMILLAN CO., St. Paul, Minn.
Filed October 30, 1924. Serial No. 204,620. PUBLISHED OCTOBER 2, 1928. Class 46.

250,390. SPOONS, KNIVES, FORKS, NUTCRACKERS, SUGAR TONGS, AND CORKSCREWS MADE OF NONPRECIOUS METAL. THE DIRIGOLD CORPORATION, Minneapolis, Minn.
Filed February 28, 1924. Serial No. 192,965. PUBLISHED JANUARY 26, 1926. Class 23.

250,391. INKING MATERIALS FOR INCREASING ADHESION. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,330. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,392. DRYERS FOR INKS. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,329. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,393. ANTIABSORPTION INKING MATERIALS FOR BRONZING INKS. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,327. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,394. ANTIABSORPTION INKING MATERIALS. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,326. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,395. MATERIALS FOR CLEANING SURFACES OF FURNITURE AND OF MOTOR CARS. REGINALD JOHN HOOTON HOPE, doing business as Hope, Hartope & Co., London, England.
Filed March 4, 1927. Serial No. 245,213. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,396. INKING MATERIALS FOR INCREASING PLIABILITY. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,325. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,397. INKING MATERIALS FOR REVIVING AND INCREASING PLIABILITY. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,323. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,398. ANTISICCATIVE INKING MATERIALS. H. LANSCHEY, INC., New York, N. Y.
Filed April 12, 1927. Serial No. 247,322. PUBLISHED SEPTEMBER 25, 1928. Class 11.

250,399. CERTAIN NAMED CONSTRUCTION MATERIALS. THE BEAVER PRODUCTS COMPANY, INC., Buffalo, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a Corporation of Maryland.
Filed March 2, 1927. Serial No. 245,077. PUBLISHED JANUARY 3, 1928. Class 12.

250,400. PORTABLE HAND FIRE-EXTINGUISHER APPARATUS. RALPH W. MCMULLEN, Detroit, Mich.
Filed June 14, 1926. Serial No. 233,211. PUBLISHED NOVEMBER 15, 1927. Class 23.

250,401. SUBTITLE TO NEWSPAPER ARTICLES WHICH APPEAR DAILY. R. H. MACY & CO., INC., New York, N. Y.
Filed May 10, 1926. Serial No. 231,389. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,402. CHINA CLOSETS, BUFFETS, SERVING TABLES, ETC. MICHAEL GOLDBERG, doing business as Factors-to-You Furniture Co., Philadelphia, Pa.
Filed April 27, 1926. Serial No. 230,789. PUBLISHED OCTOBER 2, 1928. Class 32.

250,403. HAIR NETS KNOWN AS WATER-WAVE NETS, SLUMBER NETS, AND SPORT NETS MADE OF SILK OR OTHER SUITABLE MATERIAL. S. GLEMBY'S SONS CO., INC., New York, N. Y.
Filed July 30, 1928. Serial No. 270,333. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,404. HAIR NETS KNOWN AS WATER-WAVE NETS, SLUMBER NETS, AND SPORT NETS MADE OF SILK OR OTHER SUITABLE MATERIAL. S. GLEMBY'S SONS CO., INC., New York, N. Y.
Filed July 30, 1928. Serial No. 270,331. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,405. PERIODICAL PUBLISHED MONTHLY. THE AMERICAN MEDICAL PUBLISHING COMPANY, New York, N. Y.
Filed July 30, 1928. Serial No. 270,312. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,406. WIRE ROPE AND WIRE CABLES AND HIGH-CARBON WIRE MANUFACTURED FOR WIRE-ROPE PURPOSES. UNION WIRE ROPE CORPORATION, Tulsa, Okla.
Filed July 28, 1928. Serial No. 270,307. PUBLISHED SEPTEMBER 25, 1928. Class 7.

250,407. CHINAWARE. R. H. MACY & CO., INC., New York, N. Y.
Filed July 28, 1928. Serial No. 270,299. PUBLISHED SEPTEMBER 25, 1928. Class 30.

250,408. STEEL CASTERS. BOND FOUNDRY AND MACHINE COMPANY, Manheim, Pa.
Filed July 28, 1928. Serial No. 270,276. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,409. MAGAZINE. MILES W. ARK, Rochester, N. Y.
Filed July 28, 1928. Serial No. 270,274. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,410. STRUCTURAL TOYS. G. B. LEWIS COMPANY, Watertown, Wis.
Filed July 27, 1928. Serial No. 270,252. PUBLISHED OCTOBER 2, 1928. Class 22.

250,411. EXCAVATING, ELEVATING, AND CONVEYING MACHINERY. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio.
Filed July 27, 1928. Serial No. 270,247. PUBLISHED OCTOBER 2, 1928. Class 23.

250,412. PERIODICAL PUBLICATION. THE DICKENS FELLOWSHIP OF NEW YORK INC., New York, N. Y.
Filed July 27, 1928. Serial No. 270,239. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,413. PAPER BAGS. MASTER METAL PRODUCTS, INC., Buffalo, N. Y.
Filed July 26, 1928. Serial No. 270,194. PUBLISHED SEPTEMBER 25, 1928. Class 2.

250,414. FERTILIZERS. GEORGIA CHEMICAL WORKS, Augusta, Ga.
Filed July 26, 1928. Serial No. 270,181. PUBLISHED SEPTEMBER 25, 1928. Class 10.

250,415. FERTILIZERS. AMERICAN FERTILIZING COMPANY, Norfolk, Va.
Filed July 26, 1928. Serial No. 270,162. PUBLISHED SEPTEMBER 25, 1928. Class 10.

250,416. ELECTRICALLY-HEATED PADS FOR THERAPEUTIC USES. VARICK ELECTRIC MANUFACTURING CO., INC., New York, N. Y.
Filed July 25, 1928. Serial No. 270,155. PUBLISHED SEPTEMBER 18, 1928. Class 44.

250,417. PORTABLE HOME SAVINGS BANK. CHARLES L. GMEINDER, Jr., Macon, Ga.
Filed April 19, 1926. Serial No. 230,392. PUBLISHED OCTOBER 2, 1928. Class 25.

250,418. GRAVY LADLES, CAKE LADLES, TEA STRAINERS, NAPKIN RINGS, EGG CUPS, WINE CUPS, SUGAR SIFTERS, PUNCH LADLES, PLATES, BOWLS, DISHES, GOBLETS, VASES, NAME PLATES FOR COATS, AND NUT TRAYS MANUFACTURED FROM NONPRECIOUS METAL. THE DIRIGOLD CORPORATION, Minneapolis, Minn.
Filed January 30, 1926. Serial No. 226,641. PUBLISHED APRIL 19, 1927. Class 13.

250,419. PERIODICAL PUBLICATIONS ISSUED APPROXIMATELY QUARTERLY. NATIONAL USED CAR MARKET REPORT, INC., Chicago, Ill.
Filed August 1, 1928. Serial No. 270,437. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,420. CHEESE SLICERS. GLAHNSOHN MANUFACTURING COMPANY, Glendale, N. Y.
Filed July 31, 1928. Serial No. 270,407. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,421. DOUCHE POWDER. WALLACE BENJAMIN SMITH, doing business as Mentho Septo Co., Fort Worth, Tex.
Filed July 19, 1928. Serial No. 269,864. PUBLISHED OCTOBER 2, 1928. Class 6.

250,422. FINGER BANDAGES. BLAHOURAF A. PAROUBEK, Plainfield, N. J.
Filed July 19, 1928. Serial No. 269,854. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,423. OLIVE OIL. IGNAZIO NUCCIO, doing business as Traiana Olive Oil Company, Cleveland, Ohio.
Filed July 19, 1928. Serial No. 269,851. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,424. ALCOHOL MASSAGE LOTIONS, BODY BALMS, COLD CREAM, ETC. ROBERT M. FROEHLICH, doing business as Dr. Robert M. Froehlich, New York, N. Y.
Filed July 19, 1928. Serial No. 269,841. PUBLISHED OCTOBER 2, 1928. Class 6.

250,425. CAST METAL CYLINDERS FOR CLOTHES-WASHING MACHINES AND EXTRACTORS. ASHER MANUFACTURING COMPANY, Irvington, N. J.
Filed July 19, 1928. Serial No. 269,819. PUBLISHED SEPTEMBER 25, 1928. Class 24.

250,426. WHITE OIL FOR CHEMICAL, MEDICINAL, AND PHARMACEUTICAL PURPOSES. STANCO INCORPORATED, Wilmington, Del., and New York, N. Y.
Filed July 18, 1928. Serial No. 269,803. PUBLISHED OCTOBER 2, 1928. Class 6.

250,427. DUST MOPS AND POLISH MOPS. MIDWAY CHEMICAL COMPANY, Chicago, Ill.
Filed July 18, 1928. Serial No. 269,795. PUBLISHED SEPTEMBER 25, 1928. Class 29.

250,428. DOLLS. IDEAL NOVELTY & TOY CO., Brooklyn, N. Y.
Filed July 18, 1928. Serial No. 269,787. PUBLISHED SEPTEMBER 18, 1928. Class 22.

250,429. CERTAIN NAMED PIECE GOODS AND CERTAIN ARTICLES NOT IN THE PIECE. B. ALTMAN & Co., New York, N. Y.
Filed July 18, 1928. Serial No. 269,758. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,430. COSMETIC PREPARATION FOR USE ON HUMAN LEGS FOR THE PURPOSE OF CONCEALING BLEMISHES, BEAUTIFYING THE SKIN, AND AS PROTECTION AGAINST THE ELEMENTS. SIEGELMAN LABORATORIES, INC., Los Angeles, Calif.
Filed July 17, 1928. Serial No. 269,747. PUBLISHED OCTOBER 2, 1928. Class 6.

250,431. CANNED VEGETABLES. PACIFIC TRADING CO., INC., San Francisco, Calif.
Filed July 17, 1928. Serial No. 269,742. PUBLISHED OCTOBER 2, 1928. Class 46.

250,432. CANNED BEEF PREPARED WITH SHOYU SAUCE. NORTH AMERICAN MERCANTILE COMPANY, San Francisco, Calif.
Filed July 17, 1928. Serial No. 269,741. PUBLISHED OCTOBER 2, 1928. Class 46.

250,433. METAL TUBING. WOLVERINE TUBE COMPANY, Detroit, Mich.
Filed July 16, 1928. Serial No. 269,705. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,434. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill., now by change of name, Colgate-Palmolive-Peet Company.
Filed July 16, 1928. Serial No. 269,687. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,435. SOAP. THE PALMOLIVE-PEET COMPANY, Chicago, Ill., now by change of name, Colgate-Palmolive-Peet Company.
Filed July 16, 1928. Serial No. 269,686. PUBLISHED SEPTEMBER 18, 1928. Class 4.



250,436. HEM GAUGE FOR MEASURING THE HEM OF GARMENTS. ROSS MORRIS, doing business as Morris Company, Pittsfield, Mass.
Filed July 16, 1928. Serial No. 269,621. PUBLISHED OCTOBER 2, 1928. Class 26.

250,437. PAINT AND VARNISH BRUSHES. RANDAL YOUNG, doing business as Smith-Young Company, Cincinnati, Ohio.
Filed July 13, 1928. Serial No. 269,563. PUBLISHED OCTOBER 2, 1928. Class 39.

250,438. DYESTUFFS AND INTERMEDIATES. WETTERWALD & PFISTER COMPANY, INC., New York, N. Y.
Filed July 13, 1928. Serial No. 269,560. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,439. FRESH FRUITS — NAMELY, GRAPEFRUIT AND ORANGES. GULF VEGETABLES & FRUIT COMPANY, INC., Weslaco, Tex.
Filed July 13, 1928. Serial No. 269,523. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,440. CERTAIN NAMED PAINT PRODUCTS. BEAUTEXT COMPANY, San Francisco, Calif.
Filed July 13, 1928. Serial No. 269,505. PUBLISHED SEPTEMBER 25, 1928. Class 16.

250,441. TIRE-TUBE PATCHES. HENRY B. EGAN, Muskogee, Okla.
Filed August 8, 1928. Serial No. 270,766. PUBLISHED OCTOBER 2, 1928. Class 35.

250,442. HEDGE CLIPPERS. AMERICAN IMPLEMENT COMPANY, Newark, N. J.
Filed August 8, 1928. Serial No. 270,762. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,443. SOAP PASTE. HOWARD JOHNSON, doing business as Arima Soap Paste Co., Bethlehem, Pa.
Filed August 8, 1928. Serial No. 270,747. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,444. PORTABLE HAND FIRE-EXTINGUISHING APPARATUS. INTERNATIONAL FIRE EQUIPMENT CORPORATION, West New Brighton, N. Y.
Filed August 8, 1928. Serial No. 270,746. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,445. CAMPING TRAILERS. E. P. GILKISON & SONS COMPANY, Terre Haute, Ind.
Filed August 8, 1928. Serial No. 270,744. PUBLISHED OCTOBER 2, 1928. Class 19.

250,446. INTERNAL-COMBUSTION ENGINES AND PARTS THEREOF. AERONAUTICAL PRODUCTS CORPORATION, Naugatuck, Conn.
Filed August 8, 1928. Serial No. 270,784. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,447. SALT USED AS A DIETARY SUBSTITUTE FOR TABLE SALT. SHARP & DOHME, INCORPORATED, Baltimore, Md.
Filed August 7, 1928. Serial No. 270,727. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,448. PERIODICAL PUBLISHED MONTHLY. THE A. N. PALMER COMPANY, New York, N. Y.
Filed August 7, 1928. Serial No. 270,716. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,449. PERIODICAL PUBLISHED QUARTERLY. THE A. N. PALMER COMPANY, New York, N. Y.
Filed August 7, 1928. Serial No. 270,715. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,450. FRESH VEGETABLES—NAMELY, LETTUCE, TOMATOES, CARROTS, TURNIPS, BEETS, CAULIFLOWER, SPINACH, ASPARAGUS; FRESH FRUITS—NAMELY, PEACHES, PLUMS, PEARS, APPLES, CHERRIES, STRAWBERRIES, BLACKBERRIES, RASPBERRIES, GRAPES. NOBUZO NOJIRI, doing business as Nojiri Fruit Company, Sacramento, Calif.
Filed August 7, 1928. Serial No. 270,714. PUBLISHED OCTOBER 2, 1928. Class 46.

250,451. PERIODICAL PUBLICATION. NEW YORK ZOOLOGICAL SOCIETY, New York, N. Y.
Filed August 7, 1928. Serial No. 270,713. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,452. ALL MANNER AND KINDS OF RAZORS, SHEARS, SCISSORS, KNIVES OF BASE METAL, AND HAIR CLIPPERS. CARL S. BERSNICK, New York, N. Y.
Filed August 7, 1928. Serial No. 270,689. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,453. FRESH APPLES, GRAPES, CANTALOUPES, ORANGES, PLUMS, CHERRIES, PEACHES, TOMATOES, GRAPEFRUIT, AND LEMONS. SCOBEL & DAY, INC., New York, N. Y.
Filed August 6, 1928. Serial No. 270,653. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,454. METAL NOVELTIES—NAMELY, BENCHES, TABLES, RADIOTABLES, AQUARIUM STANDS, FERNERIES, CHAIRS, MAGAZINE RACKS, BOOK ENDS, AND BOOKRACKS. SEVILLE STUDIOS, INCORPORATED, Cleveland, Ohio.
Filed August 6, 1928. Serial No. 270,652. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,455. FURNACES OF THE GAS, OIL, AND COAL BURNING TYPES. THE MEIER FURNACE COMPANY, Peoria, Ill.
Filed August 6, 1928. Serial No. 270,641. PUBLISHED OCTOBER 2, 1928. Class 34.

250,456. SOAP. ADOLPHUS H. STINES, West Asheville, N. C.
Filed August 4, 1928. Serial No. 270,615. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,457. GINGER ALE. PREMIER BEVERAGE COMPANY, Chicago, Ill.
Filed August 4, 1928. Serial No. 270,604. PUBLISHED OCTOBER 2, 1928. Class 45.

250,458. ROLLER BEARINGS AND PARTS THEREOF. RAILWAY MOTORS CORPORATION, De Pere, Wis.
Filed August 3, 1928. Serial No. 270,558. PUBLISHED OCTOBER 2, 1928. Class 23.

250,459. WOOL PIECE GOODS. UNITED STATES KNITTING CO. INC., Central Falls, R. I.
Filed August 2, 1928. Serial No. 270,525. PUBLISHED OCTOBER 2, 1928. Class 42.

250,460. CERTAIN NAMED DRUGGISTS' RUBBER SUNDRIES. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio.
Filed August 2, 1928. Serial No. 270,517. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,461. CERTAIN NAMED DRUGGISTS' RUBBER SUNDRIES. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio.
Filed August 2, 1928. Serial No. 270,514. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,462. CERTAIN NAMED DRUGGISTS' RUBBER SUNDRIES. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio.
Filed August 2, 1928. Serial No. 270,513. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,463. PACKAGE NUTS. WILLIAM SCHUMANN, West New York, N. J.
Filed August 2, 1928. Serial No. 270,511. PUBLISHED OCTOBER 2, 1928. Class 46.

250,464. ARTIFICIAL BAIT. MILAN B. ROBERTS, Flint, Mich.
Filed August 2, 1928. Serial No. 270,508. PUBLISHED SEPTEMBER 18, 1928. Class 22.

250,465. MOLASSES. PENICK & FORD, LTD., New York, N. Y.
Filed August 2, 1928. Serial No. 270,500. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,466. SALVE FOR THE TREATMENT OF ECZEMA, TETTER, RINGWORM, AND OLD SORES. JOHN B. HUTCHINS, Houston, Tex.
Filed August 2, 1928. Serial No. 270,492. PUBLISHED OCTOBER 2, 1928. Class 6.

250,467. MEDICINE FOR TREATMENT OF RHEUMATISM, NEURALGIAS, GRIPPE, DYSMENORRHŒA, ACID CYSTITIS, AND INSOMNIA. HOLLINGS-SMITH CO., Orangeburg, N. Y.
Filed August 2, 1928. Serial No. 270,483. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,468. BRIDGE-PRIZE WRAPPINGS. CHARLES S. CLARK CO., New York, N. Y.
Filed August 2, 1928. Serial No. 270,463. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,469. MONTHLY MAGAZINE. THE ÆSTHETE, INC., Chicago, Ill.
Filed August 2, 1928. Serial No. 270,452. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,470. CERTAIN NAMED DRUGGISTS' RUBBER SUNDRIES. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio.
Filed August 1, 1928. Serial No. 270,444. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,471. CERTAIN NAMED DRUGGISTS' RUBBER SUNDRIES. SEIBERLING LATEX PRODUCTS COMPANY, Akron and Barberton, Ohio.
Filed August 1, 1928. Serial No. 270,443. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,472. INK RIBBONS AND CARBON PAPER. ALBERT PADBERG, Elberfeld, Germany.
Filed August 8, 1928. Serial No. 270,779. PUBLISHED OCTOBER 2, 1928. Class 11.

250,473. OXYGEN-DISPENSING EQUIPMENT FOR VAULTS, SAFES, AND THE LIKE. OXWELD ACETYLENE COMPANY, New York, N. Y.
Filed August 9, 1928. Serial No. 270,800. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,474. CANNED VEGETABLES AND CANNED FRUITS. ROTH BROS., Wheeling, W. Va.
Filed August 9, 1928. Serial No. 270,802. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,475. COTTON PIECE GOODS. TOOTLE-CAMPBELL DRY GOODS COMPANY, St. Joseph, Mo.
Filed August 9, 1928. Serial No. 270,810. PUBLISHED OCTOBER 2, 1928. Class 42.

250,476. HARD-SURFACED FLOOR COVERING IN THE NATURE OF LINOLEUM OR FELT-BASE PRODUCTS. THE GEORGE W. BLABON COMPANY, Philadelphia, Pa.
Filed August 10, 1928. Serial No. 270,819. PUBLISHED SEPTEMBER 25, 1928. Class 20.

250,477. CELLULOSE-ACETATE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed August 10, 1928. Serial No. 270,831. PUBLISHED SEPTEMBER 25, 1928. Class 43.

250,478. CERTAIN NAMED PAINT PRODUCTS. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,833. PUBLISHED SEPTEMBER 25, 1928. Class 16.

250,479. CERTAIN NAMED PAINT PRODUCTS. THE EGYPTIAN LACQUER MANUFACTURING COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,834. PUBLISHED SEPTEMBER 25, 1928. Class 16.

250,480. CORD PLUGS FOR CLEANING CONDENSER TUBES. THE GARLOCK PACKING COMPANY, Palmyra, N. Y.
Filed August 10, 1928. Serial No. 270,837. PUBLISHED OCTOBER 2, 1928. Class 13.

250,481. MATCHES. AMTORG TRADING COMPANY, New York, N. Y.
Filed August 11, 1928. Serial No. 270,869. PUBLISHED SEPTEMBER 25, 1928. Class 9.

250,482. SALTED PEANUTS. LUMMIS & COMPANY, Philadelphia, Pa.
Filed August 11, 1928. Serial No. 270,869. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,483. CIGARS. GEORGE SCHAFER CIGAR COMPANY, Baltimore, Md.
Filed August 11, 1928. Serial No. 270,882. PUBLISHED SEPTEMBER 25, 1928. Class 17.

250,484. KNITTED FABRICS OF SILK, RAYON AND MIXTURES OF THESE MATERIALS. TWENTIETH CENTURY RAYON TEXTILES, INC., New York, N. Y.
Filed August 11, 1928. Serial No. 270,897. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,485. AIR CLEANERS FOR INTERNAL-COMBUSTION ENGINES. DONALDSON COMPANY, INC., St. Paul, Minn.
Filed August 13, 1928. Serial No. 270,917. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,486. AIR CLEANERS FOR INTERNAL-COMBUSTION ENGINES. DONALDSON COMPANY, INC., St. Paul, Minn.
Filed August 13, 1928. Serial No. 270,918. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,487. AIR CLEANERS FOR INTERNAL-COMBUSTION ENGINES. DONALDSON COMPANY, INC., St. Paul, Minn.
Filed August 13, 1928. Serial No. 270,919. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,488. CELLULOSE-ACETATE YARNS, THREADS, AND FILAMENTS. DU PONT RAYON COMPANY, Buffalo, N. Y.
Filed August 13, 1928. Serial No. 270,920. PUBLISHED SEPTEMBER 25, 1928. Class 43.

250,489. POWDER PUFFS. CLEMENCE FRANCK, San Francisco, Calif.
Filed August 13, 1928. Serial No. 270,924. PUBLISHED SEPTEMBER 25, 1928. Class 29.

250,490. COATED BOOK PAPERS, COATED BOX PAPERS, LEDGER PAPERS, BOND PAPERS, BOOK PAPERS, WEDDING PAPERS, COVER PAPERS, AND WEDDING BRISTOLS. HAZEN PAPER CO., Holyoke, Mass.
Filed August 13, 1928. Serial No. 270,932. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,491. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES AND SYRUPS AND COMPOUNDS FOR MAKING THE SAME. I. A. STEIN, Galveston, Tex.
Filed August 13, 1928. Serial No. 270,981. PUBLISHED SEPTEMBER 25, 1928. Class 45.

250,492. CANNED FRUITS. WASHINGTON CANNERS CO-OPERATIVE, Vancouver, Wash.
Filed August 13, 1928. Serial No. 270,983. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,493. POT, PAN, AND KETTLE HOLDERS FOR MARINE GALLEY RANGES TO SUPPLEMENT ROLLING BARS. THE STAMFORD FOUNDRY COMPANY, Stamford, Conn.
Filed July 12, 1928. Serial No. 269,490. PUBLISHED OCTOBER 2, 1928. Class 34.

250,494. MALT SYRUP. PABST CORPORATION, Milwaukee, Wis.
Filed July 12, 1928. Serial No. 269,480. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,495. NONSAPONACEOUS LIQUID DRY CLEANER. RALPH W. E. SOUTHWORTH, doing business as The Magic Swan Co., Tuckahoe, N. Y.
Filed July 11, 1928. Serial No. 269,434. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,496. PERFUMERY, TOILET WATERS, FACE POWDERS, LIP STICKS, CREAMS, AND PREPARATIONS FOR THE TEETH AND HAIR. PETER COATS, doing business as Florimonde, Paisley, Scotland.
Filed July 11, 1928. Serial No. 269,394. PUBLISHED OCTOBER 2, 1928. Class 6.

250,497. PROTECTIVE DRESSING FOR WOUNDS AND SORES. THE ANTISEPTIC PRODUCTS COMPANY, Denver, Colo.
Filed July 11, 1928. Serial No. 269,383. PUBLISHED SEPTEMBER 25, 1928. Class 6.



250,498. UNIFORM SERGE PIECE GOODS. LESSER, WHITMAN & CO., INC., New York, N. Y.
Filed July 10, 1928. Serial No. 269,357. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,499. CIGARS. LAURENCE F. GERAGHTY, Montgomery, Ala.
Filed July 9, 1928. Serial No. 269,285. PUBLISHED SEPTEMBER 25, 1928. Class 17.

250,500. IRONING MACHINES. THE AMERICAN LAUNDRY MACHINERY COMPANY, Norwood Station, Cincinnati, Ohio.
Filed July 9, 1928. Serial No. 269,272. PUBLISHED SEPTEMBER 25, 1928. Class 24.

250,501. METAL DOOR WICKETS AND GRILLES. ACKERMAN DOOR INTERVIEWER CORP., New York, N. Y.
Filed July 7, 1928. Serial No. 269,215. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,502. CERTAIN NAMED CONSTRUCTION MATERIALS. WILLIAM H. D. HINCHMAN, doing business as W. H. D. Hinchman Construction Co., Detroit, Mich.
Filed July 6, 1928. Serial No. 269,190. PUBLISHED SEPTEMBER 11, 1928. Class 12.

250,503. BOARDS OR SHEETS MADE WHOLLY OR IN PART OF CORK. ARMSTRONG CORK & INSULATION COMPANY, Pittsburgh and Lancaster, Pa.
Filed July 6, 1928. Serial No. 269,176. PUBLISHED SEPTEMBER 11, 1928. Class 12.

250,504. MEMORANDUM PADS, COMBINED LOOSE-LEAF DESK PAD AND CALENDAR HOLDER, AND FILLERS FOR SAME. HUNLEY E. SEATON, doing business as Seaton Products Company, Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,155. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,505. CHEMICALLY-IMPREGNATED POLISHING DUST CLOTHS. PARKER-REGAN CORPORATION, San Francisco, Calif.
Filed July 5, 1928. Serial No. 269,142. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,506. ASPHALT, ASPHALTIC BINDER, ASPHALT CEMENT, ROOFING ASPHALT, BITUMEN, EMULSIFIED ASPHALT. GILMORE OIL COMPANY, Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,112. PUBLISHED SEPTEMBER 4, 1928. Class 12.

250,507. THEATRICAL MAKE-UPS—NAMELY, GREASE PAINTS IN TUBES, LINING COLORS, LIQUID BODY MAKE-UP, COSMETIC WHITENER, ROUGE, EYEBROW PENCILS, TALCUM POWDERS FOR USE IN CONNECTION WITH THE AFOREMENTIONED COSMETICS. MAX FACTOR, doing business as Max Factor & Co., Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,105. PUBLISHED OCTOBER 2, 1928. Class 6.

250,508. THEATRICAL MAKE-UPS—NAMELY, GREASE PAINTS IN TUBES, LINING COLORS, LIQUID BODY MAKE-UP, COSMETIC WHITENER, ROUGE, EYEBROW PENCILS, TALCUM POWDERS FOR USE IN CONNECTION WITH THE AFOREMENTIONED COSMETICS. MAX FACTOR, doing business as Max Factor & Co., Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,104. PUBLISHED OCTOBER 2, 1928. Class 6.

250,509. MONTHLY PUBLICATION. ASSOCIATION OF NEWSPAPER CLASSIFIED ADVERTISING MANAGERS, St. Louis, Mo.
Filed July 5, 1928. Serial No. 269,076. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,510. PREPARATIONS FOR POLISHING OR SOFTENING LEATHER. THE ABBOTT FINISHING CORPORATION, Wakefield, Mass.
Filed July 5, 1928. Serial No. 269,067. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,511. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF CHILLS, FEVER, MALARIA, BILIOUSNESS, COLDS, LA GRIPPE, FLU, HEADACHE, AND DENGUE FEVER. H. E. CUMMINGS, doing business as Livero Products Company, Jacksonville, Fla.
Filed July 3, 1928. Serial No. 269,062. PUBLISHED OCTOBER 2, 1928. Class 6.

250,512. RAKES, HOES, SHOVELS, LAWN MOWERS, HEDGE SHEARS. ALFRED ROESCH, Rahway, N. J.
Filed July 3, 1928. Serial No. 269,037. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,513. SECTIONAL CAMP CABINS. FOLDAHOME MANUFACTURING COMPANY OF CALIFORNIA, San Francisco, Calif.
Filed May 2, 1928. Serial No. 265,783. PUBLISHED AUGUST 7, 1928. Class 12.

250,514. CANDY. OXFORD CANDY CORPORATION, Cambridge, Mass.
Filed April 25, 1928. Serial No. 265,398. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,515. AMMONIA. NATIONAL AMMONIA COMPANY, INC., Philadelphia, Pa.
Filed April 23, 1928. Serial No. 265,283. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,516. DOORS, LUMBER, AND PLYWOOD, PANELS, AND SHINGLES. MCBRILL & STURGEON LUMBER COMPANY, Portland, Oreg.
Filed April 23, 1928. Serial No. 265,282. PUBLISHED AUGUST 7, 1928. Class 12.

250,517. BUILDING UNITS MADE OF CEMENT. CEMROC, INC., Cincinnati, Ohio.
Filed April 23, 1928. Serial No. 265,257. PUBLISHED AUGUST 7, 1928. Class 12.

250,518. QUARRIED GRANITE IN BLOCKS. ELBERTON QUARRIES INC., Carlton, Ga.
Filed April 21, 1928. Serial No. 265,201. PUBLISHED AUGUST 21, 1928. Class 12.

250,519. PERFUMERY, ROUGE, LIP STICKS, FACE POWDER, AND BEAUTY CREAM. MARCEL BLUME, trading as Fairyland, Paris, France.
Filed April 17, 1928. Serial No. 264,960. PUBLISHED OCTOBER 2, 1928. Class 6.

250,520. TREE-CAVITY FILLER IN THE NATURE OF CEMENT. THE LILLY TREE SURGEONS, INC., Rye, N. Y.
Filed April 12, 1928. Serial No. 264,727. PUBLISHED AUGUST 21, 1928. Class 12.

250,521. TREE-CAVITY FILLER IN THE NATURE OF CEMENT. THE LILLY TREE SURGEONS, INC., Rye, N. Y.
Filed April 12, 1928. Serial No. 264,726. PUBLISHED AUGUST 28, 1928. Class 12.

250,522. WALL-FINISHING MATERIAL. THE PARTEX COMPANY, INC., New York, N. Y.
Filed April 11, 1928. Serial No. 264,695. PUBLISHED SEPTEMBER 11, 1928. Class 12.

250,523. ARCH SUPPORTS. THE SCHOLL MFG. CO. INC., Chicago, Ill.
Filed April 7, 1928. Serial No. 264,536. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,524. CERTAIN NAMED PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed April 6, 1928. Serial No. 264,434. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,525. DYNAMITE. HERCULES POWDER COMPANY, Wilmington, Del.
Filed April 4, 1928. Serial No. 264,304. PUBLISHED SEPTEMBER 25, 1928. Class 9.

250,526. MANUFACTURES FROM MINERAL AND OTHER SUBSTANCES FOR BUILDING OR DECORATION. MOLER PRODUCTS LIMITED, London, England.
Filed March 30, 1928. Serial No. 264,039. PUBLISHED SEPTEMBER 4, 1928. Class 12.

250,527. TREE-WOUND DRESSING CONTAINING ASPHALT AND WATERPROOFER. THE DAVEY TREE EXPERT COMPANY, Kent, Ohio.
Filed March 30, 1928. Serial No. 264,023. PUBLISHED AUGUST 7, 1928. Class 12.

250,528. CERTAIN NAMED CONSTRUCTION MATERIALS. THE FLINTKOTE COMPANY, Boston, Mass.
Filed March 28, 1928. Serial No. 263,870. PUBLISHED AUGUST 21, 1928. Class 12.

250,529. CERTAIN NAMED BUILDING MATERIALS. THE FLINTKOTE COMPANY, Boston, Mass.
Filed March 28, 1928. Serial No. 263,869. PUBLISHED AUGUST 21, 1928. Class 12.

250,530. PICKLED PIG'S FOOT TASTIES, PICKLED LAMBS' TONGUES, OX TONGUE (WHOLE, JELLY), PICKLED BONELESS PIGS' FEET, SLICED BEEF, VIENNA SAUSAGE, OX TONGUE (SLICED, JELLY). SILZ PACKING COMPANY, INC., New York, N. Y.
Filed March 27, 1928. Serial No. 263,833. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,531. METAL LATH. NORTH WESTERN EXPANDED METAL COMPANY, Chicago, Ill.
Filed March 28, 1928. Serial No. 263,663. PUBLISHED AUGUST 7, 1928. Class 12.

250,532. WOODEN DOORS. WESTERN DOOR MANUFACTURERS ASSOCIATION, Tacoma, Wash.
Filed March 19, 1928. Serial No. 263,449. PUBLISHED AUGUST 7, 1928. Class 12.

250,533. EMPTY VANITY CASES FOR ROUGE AND POWDER COMPACTS OF ENAMELLED BASE METAL. LIONEL TRADING CO. INC., New York, N. Y.
Filed June 2, 1928. Serial No. 267,367. PUBLISHED SEPTEMBER 25, 1928. Class 2.

250,534. MATERIALS FOR USE IN PARTITION BLOCKS OR TILE, FLOOR, ROOF, AND CEILING BLOCKS OR SLABS, PLASTER BOARD, AND WALL BOARD. STRUCTURAL GYPSUM CORPORATION, Linden, N. J.
Filed June 1, 1928. Serial No. 267,325. PUBLISHED SEPTEMBER 4, 1928. Class 12.

250,535. WRAPPING PAPER IN ROLLS, PARCHMENT PAPER IN SHEETS, FANCY WRAPPING PAPER. CAPITAL PAPER COMPANY, Indianapolis, Ind.
Filed May 31, 1928. Serial No. 267,238. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,536. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK AND A CONCENTRATE IN A POWDERED AND LIQUID FORM FOR MAKING THE SAME. JACOB S. POLEFSKY, doing business as Continental Pure Product Company, New York, N. Y.
Filed May 29, 1928. Serial No. 267,210. PUBLISHED OCTOBER 2, 1928. Class 45.

250,537. FACE POWDER, TALC POWDER, ROUGE, LIP STICKS, PERFUMES, TOILET WATER, HAIR TONIC, NAIL POLISH, DUSTING POWDER, HAIR AND SKIN LOTIONS, DEODORANTS, FACE CREAMS, HAND LOTION, HAIR RESTORER, AND SHAMPOO. OSCAR A. GROSS, doing business as "Gervais," New York, N. Y.
Filed May 29, 1928. Serial No. 267,193. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,538. BAKING STOVES USING SOLID, LIQUID, AND GASEOUS FUEL. F. ARSCHBACH S. A., Aarau, Switzerland.
Filed May 28, 1928. Serial No. 267,106. PUBLISHED SEPTEMBER 25, 1928. Class 34.

250,539. CERTAIN NAMED CONSTRUCTION MATERIALS. JAMES MANUFACTURING COMPANY, Fort Atkinson, Wis.
Filed May 26, 1928. Serial No. 267,054. PUBLISHED AUGUST 7, 1928. Class 12.

250,540. SOAPS. JUAN MANUEL GARCIA Y MIRANDA, Madrid, Spain.
Filed May 23, 1928. Serial No. 266,871. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,541. COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed May 23, 1928. Serial No. 266,858. PUBLISHED AUGUST 21, 1928. Class 12.

250,542. LIQUID COMPOUND FOR THE PREVENTION OF FREEZING AND BOILING OF WATER IN RADIATORS CONNECTED WITH INTERNAL-COMBUSTION ENGINES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed May 22, 1928. Serial No. 266,824. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,543. CHEMICAL PREPARATIONS OR SOLUTIONS CONSISTING OF MERCURIAL SALTS, NORMAL OXYIC QUINOLINE SULPHATE, CARBOLIC ACID, SODIUM CHORIDE, MOLASSES OR BROWN SUGAR, SOLUBLE PROTEID IODINE COMPOUNDS FOR USE IN THE TREATMENT OF INFECTIOUS ABORTION IN ANIMALS. BROWNCONE CO. INC., Jersey City, N. J.
Filed May 22, 1928. Serial No. 266,787. PUBLISHED OCTOBER 2, 1928. Class 6.

250,544. TOILET PAPER. CAPITAL PAPER COMPANY, Indianapolis, Ind.
Filed May 21, 1928. Serial No. 266,713. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,545. METAL-POLISHING CREAM, SOAP POWDER FOR GRIME AND DUST, SCOURING POWDER, AND CLEANING POWDER FOR GRIME, RUST, AND DIRT, ALL FOR HOUSEHOLD CLEANSING. ISADOR BARNETT, doing business as Barnett Janitor Supply Co., New York, N. Y.
Filed May 21, 1928. Serial No. 266,706. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,546. PAPER AND PAPER PRODUCTS—NAMELY, CORRUGATED CAKE CIRCLES, CORRUGATED PAPER, CREPE PAPER, DOILIES, CORRESPONDENCE ENVELOPES, CHECK BOOKS, LUNCH WAXED-PAPER NAPKINS, PAPER TOWELS, PASS BOOKS, SALES BOOKS, TISSUE TOWELS, SHELF PAPER, WRAPPING PAPER, SIGN CARDBOARDS, GUMMED TAPE, TOILET PAPER, TISSUE PAPER, AND WAXED PAPER. ASSOCIATED PAPER COMPANY, Chicago, Ill.
Filed May 19, 1928. Serial No. 266,639. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,547. DECORATIVE TISSUE PAPER. JAPAN PAPER COMPANY, New York, N. Y.
Filed May 15, 1928. Serial No. 266,429. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,548. CERTAIN NAMED CONSTRUCTION MATERIALS. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn.
Filed May 14, 1928. Serial No. 266,409. PUBLISHED AUGUST 14, 1928. Class 12.

250,549. DECORATIVE NOVELTIES CONSISTING OF CANDLESTICKS AND LAMP BASES. JAPANESE FAN COMPANY, New York, N. Y.
Filed May 11, 1928. Serial No. 266,250. PUBLISHED OCTOBER 2, 1928. Class 34.

250,550. WEATHER STRIPS, SCREEN DOORS, AND COMPLETE FRAMED FLY SCREENS. THE VICTOR PARTING BEAD CO., INC., Reading, Pa.
Filed May 3, 1928. Serial No. 265,864. PUBLISHED SEPTEMBER 18, 1928. Class 12.

250,551. INSECTICIDE. SAMUEL P. TURNBULL, doing business as Wekiwa Chemical Co., Moultrie, Ga.
Filed May 7, 1928. Serial No. 266,062. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,552. ROOFING AND BUILDING PAPER. SAFEPACK MILLS, Millis, Mass.
Filed March 19, 1928. Serial No. 263,427. PUBLISHED AUGUST 21, 1928. Class 12.



250,553. APPARATUS FOR RECORDING AND REPRODUCING VIEWS, SCENES, OR IMAGES BY TELEVISION AND LIKE PROCESSES. BAIRD TELEVISION DEVELOPMENT COMPANY, LIMITED, London, England.
Filed March 15, 1928. Serial No. 263,195. PUBLISHED SEPTEMBER 25, 1928. Class 26.

250,554. APPARATUS FOR RECORDING AND REPRODUCING VIEWS, SCENES, OR IMAGES BY TELEVISION AND LIKE PROCESSES. BAIRD TELEVISION DEVELOPMENT COMPANY, LIMITED, London, England.
Filed March 15, 1928. Serial No. 263,194. PUBLISHED SEPTEMBER 25, 1928. Class 26.

250,555. CHOCOLATE, CHOCOLATE NUT, AND HARD CANDIES. PLYMOUTH ROCK CANDY COMPANY, Boston, Mass.
Filed March 13, 1928. Serial No. 263,099. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,556. ENVELOPES. STANISLAW FLIS and MATEUSZ KASPRZAK, Gowanda, N. Y.
Filed March 12, 1928. Serial No. 263,052. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,557. OINTMENT OR LINIMENT USED IN TREATING BOILS, CARBUNCLES, BLOOD POISONS, AND OTHER INFECTIONS AND SKIN DISEASES. WILLIAM A. SMILEY, Mount Vernon, Wash.
Filed March 10, 1928. Serial No. 262,940. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,558. COFFEE, TEA, AND COCOA. OLD DUTCH MILLS, INC., New York, N. Y.
Filed March 7, 1928. Serial No. 262,764. PUBLISHED OCTOBER 2, 1928. Class 46.

250,559. POP CORN IN THE NATURAL STATE. LE-MUL MFG. CO., St. Paul, Minn.
Filed March 7, 1928. Serial No. 262,719. PUBLISHED OCTOBER 2, 1928. Class 46.

250,560. FRESH DECIDUOUS FRUITS. KINGS RIVER FRUIT ASSOCIATION, Minkler, Calif.
Filed March 7, 1928. Serial No. 262,716. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,561. HERB TEA. S. C. WELLS & COMPANY, Le Roy, N. Y.
Filed March 5, 1928. Serial No. 262,637. PUBLISHED OCTOBER 2, 1928. Class 6.

250,562. HYDROCARBON SOLVENTS IN THE NATURE OF TURPENTINE SUBSTITUTES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed February 29, 1928. Serial No. 262,422. PUBLISHED OCTOBER 2, 1928. Class 16.

250,563. BITUMINOUS COMPOUNDS AND EMULSIONS MISCIBLE IN WATER. BITUMULS CORPORATION, San Francisco, Calif.
Filed February 29, 1928. Serial No. 262,389. PUBLISHED AUGUST 14, 1928. Class 12.

250,564. CORE DRILLS AND ROTARY DRILLING BITS USED IN DRILLING OIL WELLS. ELLIOTT CORE DRILLING COMPANY, Los Angeles, Calif.
Filed February 23, 1928. Serial No. 262,071. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,565. SOAPS INCLUDING TOILET SOAPS, SHAVING STICKS. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed February 17, 1928. Serial No. 261,800. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,566. GOLF BAGS. THE OSHKOSH TRUNK COMPANY, Oshkosh, Wis.
Filed February 11, 1928. Serial No. 261,585. PUBLISHED SEPTEMBER 25, 1928. Class 22.

250,567. CONFECTIONERY—NAMELY, CHOCOLATES AND CANDY. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass.
Filed February 10, 1928. Serial No. 261,526. PUBLISHED APRIL 24, 1928. Class 46.

250,568. PUBLICATION ISSUED FROM TIME TO TIME, NOT LESS THAN ONCE A MONTH. B. NUGENT & BROTHER DRY GOODS COMPANY, St. Louis, Mo.
Filed February 8, 1928. Serial No. 261,377. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,569. FAUCETS. MUELLER CO., Decatur, Ill.
Filed February 6, 1928. Serial No. 261,274. PUBLISHED OCTOBER 2, 1928. Class 13.

250,570. ILLUSTRATED WEEKLY MAGAZINES AND OTHER PERIODICAL PUBLICATIONS—NAMELY, BOOKS OR PAMPHLETS AND PREMIUM LISTS. POPULAR DOGS PUBLISHING COMPANY, INC., Philadelphia, Pa.
Filed February 4, 1928. Serial No. 261,207. PUBLISHED AUGUST 21, 1928. Class 38.

250,571. RING TRAVELERS. U. S. RING TRAVELER COMPANY, Providence, R. I.
Filed February 3, 1928. Serial No. 261,154. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,572. METAL PIPE JOINTS. RAPP COMPANY, INC., Atlanta, Ga.
Filed January 28, 1928. Serial No. 260,849. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,573. COPYHOLDERS FOR TYPEWRITERS. LINE-A-TIME MANUFACTURING COMPANY INCORPORATED, Rochester, N. Y.
Filed January 20, 1928. Serial No. 260,393. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,574. CANNED FISH. FRANK H. FROMM, doing business as F. H. Fromm & Company, Philadelphia, Pa.
Filed January 19, 1928. Serial No. 260,328. PUBLISHED OCTOBER 2, 1928. Class 46.

250,575. SALTED NUTS AND NUTS IN THEIR NATURAL STATE AS WELL AS SHELLED. GOODY NUT SHOPS, Detroit, Mich.
Filed January 12, 1928. Serial No. 260,009. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,576. FIREWORKS. THE NATIONAL FIREWORKS DISTRIBUTING CO. OF ARIZONA, Boston, Mass.
Filed December 22, 1927. Serial No. 259,251. PUBLISHED SEPTEMBER 25, 1928. Class 9.

250,577. TOILET ARTICLES—NAMELY, PERFUMES. JOHN A. RIETMANN, Chicago, Ill., assignor to Gra-Car Ltd., Chicago, Ill., a Corporation of Illinois.
Filed December 7, 1927. Serial No. 258,786. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,578. FRESH CITRUS FRUITS. CARPINTERIA MUTUAL CITRUS ASSOCIATION, Carpinteria, Calif.
Filed August 25, 1928. Serial No. 271,534. PUBLISHED OCTOBER 2, 1928. Class 46.

250,579. LIQUID AND POWDER INSECTICIDES. CHARLES B. FRANKLIN, doing business as Franklin Chemical Co., New York, N. Y.
Filed August 24, 1928. Serial No. 271,485. PUBLISHED OCTOBER 2, 1928. Class 6.

250,580. MEDICINE FOR THE TREATMENT OF HAY FEVER. H. P. CURRIER, doing business as Currier Laboratories, Mendota, Ill.
Filed August 24, 1928. Serial No. 271,476. PUBLISHED OCTOBER 2, 1928. Class 6.

250,581. MATCHES. VULCAN MATCH CO., INC., New York, N. Y.
Filed August 23, 1928. Serial No. 271,460. PUBLISHED SEPTEMBER 25, 1928. Class 9.

250,582. COFFEE. C. D. KENNY CO., Baltimore, Md.
Filed August 23, 1928. Serial No. 271,441. PUBLISHED OCTOBER 2, 1928. Class 46.

250,583. CANNED VEGETABLES. THE HARRIS & FILLER CO., Frederick, Md.
Filed August 22, 1928. Serial No. 271,385. PUBLISHED OCTOBER 2, 1928. Class 46.

250,584. FABRICS IN THE PIECE MADE WHOLLY OR PARTIALLY FROM CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed August 22, 1928. Serial No. 271,376. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,585. GINGER ALE. SAFEWAY STORES, INC., Los Angeles, Calif.
Filed August 21, 1928. Serial No. 271,302. PUBLISHED OCTOBER 2, 1928. Class 45.

250,586. PURE ETHYL ALCOHOL. PUBLICKER COMMERCIAL ALCOHOL CO. OF DELAWARE, Philadelphia, Pa.
Filed June 30, 1928. Serial No. 268,937. PUBLISHED SEPTEMBER 25, 1928. Class 49.

250,587. DRY-CLEANING FLUID FOR REMOVING SPOTS FROM FABRICS AND CLOTHING. THE WILBERT PRODUCTS CO., INC., New York, N. Y.
Filed June 29, 1928. Serial No. 268,898. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,588. FRESH POTATOES. BENSON-LE FORT CO., Moorhead, Minn.
Filed June 29, 1928. Serial No. 268,840. PUBLISHED OCTOBER 2, 1928. Class 46.

250,589. CLEANING PREPARATION IN SEVERAL FORMS, LIQUID, PASTE, AND SOAP FORM. JAMES H. ROSENHEIM, doing business as Littlejim Co., Bluefield, W. Va.
Filed June 28, 1928. Serial No. 268,817. PUBLISHED SEPTEMBER 18, 1928. Class 4.

250,590. WOODEN SHINGLES AND SHAKES. WEYERHAEUSER FOREST PRODUCTS, St. Paul, Minn.
Filed June 27, 1928. Serial No. 268,759. PUBLISHED SEPTEMBER 11, 1928. Class 12.

250,591. CANNED CORN. THE MILFORD CANNING COMPANY, Milford, Ill.
Filed July 25, 1928. Serial No. 270,136. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,592. A SHAVING-BRUSH DEVICE FOR APPLYING SHAVING CREAMS AND SIMILAR PREPARATIONS. J. WILL LYSONS, New York, N. Y., assignor to Jiffy Corporation of New York, N. Y., a Corporation of Delaware.
Filed July 25, 1928. Serial No. 270,132. PUBLISHED OCTOBER 2, 1928. Class 29.

250,593. HAIR TONIC OR PREPARATION FOR TREATMENT OF SCALP TROUBLES—NAMELY, ECZEMA, DANDRUFF, ITCHING, PREMATURE LOSS OF HAIR, AND GREASINESS. HAIROLEUM COMPANY, Union City, N. J.
Filed July 25, 1928. Serial No. 270,126. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,594. METAL AND SHEET-METAL ARTICLES—NAMELY, WHEEL SERVING TABLES, STANDS FOR MAGAZINES AND BOOKS, METAL DISPLAY FIXTURES FOR ARTICLES OF MERCHANDISE, ADVERTISING AND DISPLAY STANDS, METAL CLOTHES LOCKERS, PORTABLE WHEEL STANDS FOR VENDING ARTICLES OF MERCHANDISE, ADVERTISING DISPLAY RACKS. I. GINSBERG, doing business as Guarantee Sheet Metal Specialty Co., Brooklyn, N. Y.
Filed July 25, 1928. Serial No. 270,123. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,595. PLASTIC MATERIAL FOR MAKING ARTIFICIAL DENTURES. GEORGE F. ELLS, doing business as Ells at Fargo, Fargo, N. Dak.
Filed July 25, 1928. Serial No. 270,120. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,596. STRAINERS. THE WASHBURN COMPANY, Worcester, Mass.
Filed July 24, 1928. Serial No. 270,102. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,597. CIGARS. DE NOBILI CIGAR COMPANY, New York, N. Y.
Filed July 24, 1928. Serial No. 270,076. PUBLISHED OCTOBER 2, 1928. Class 17.

250,598. CIGARS. DE NOBILI CIGAR COMPANY, New York, N. Y.
Filed July 24, 1928. Serial No. 270,075. PUBLISHED OCTOBER 2, 1928. Class 17.

250,599. METALLIC EAVES HANGERS. EINAR TANGARD, doing business as HANS Tangard & Son, Chelsea, Mass.
Filed July 23, 1928. Serial No. 270,060. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,600. MEDICAL PREPARATION TO BE USED IN THE TREATMENT OF ARTHRITIS, NEURITIS, AND RHEUMATIC CONDITIONS. RESEARCH PRODUCTS COMPANY, Los Angeles, Calif.
Filed July 23, 1928. Serial No. 270,051. PUBLISHED OCTOBER 2, 1928. Class 6.

250,601. MATTRESSES. SUPERIOR FELT & BEDDING CO., Chicago, Ill.
Filed August 16, 1928. Serial No. 271,151. PUBLISHED OCTOBER 2, 1928. Class 32.

250,602. RAZOR BLADES. REY SAFETY RAZOR CORPORATION, New York, N. Y.
Filed August 16, 1928. Serial No. 271,147. PUBLISHED OCTOBER 2, 1928. Class 23.

250,603. SHELVING FOR STORES. LUCIEN E. LARCHE, Stamford, Tex.
Filed August 16, 1928. Serial No. 271,131. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,604. ANTISEPTIC POWDER FOR USE IN SOLUTION FOR TREATMENT OF IRRITATION, INFECTION, INFLAMMATION, AND DISEASE. LAURA HATFNER, doing business as The Altruline Company, Chillicothe, Ohio.
Filed August 16, 1928. Serial No. 271,118. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,605. OILCLOTH AND OILCLOTH TABLE COVERS. THE STANDARD TEXTILE PRODUCTS COMPANY, New York, N. Y.
Filed August 15, 1928. Serial No. 271,089. PUBLISHED SEPTEMBER 25, 1928. Class 20.

250,606. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FISH, FRESH DECIDUOUS AND CITRUS FRUITS AND FRESH GRAPES, AND DRIED FRUITS. CALIFORNIA CO-OPERATIVE PRODUCERS, San Francisco, Calif.
Filed August 21, 1928. Serial No. 271,337. PUBLISHED OCTOBER 2, 1928. Class 46.

250,607. DEVICE TO LIMIT THE TEMPERATURE OF THE AIR IN THE CASING OF A WARM-AIR FURNACE. MINNEAPOLIS-HONEYWELL REGULATOR COMPANY, Wabash, Ind., and Minneapolis, Minn.
Filed June 2, 1928. Serial No. 267,376. PUBLISHED SEPTEMBER 25, 1928. Class 34.

250,608. COTTON-CLOTH PIECE GOODS. [illegible] MANUFACTURING COMPANY, Athens, Ga.
Filed June 26, 1928. Serial No. 268,708. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,609. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,665. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,610. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,664. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,611. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,663. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,612. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,662. PUBLISHED SEPTEMBER 25, 1928. Class 42.



250,613. CERTAIN NAMED PIECE GOODS. WEISS WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,661. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,614. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,660. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,615. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed June 25, 1928. Serial No. 268,659. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,616. HEMP TWINE. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed August 18, 1928. Serial No. 271,252. PUBLISHED SEPTEMBER 25, 1928. Class 7.

250,617. PIECE GOODS MADE OF SILK, COTTON, AND WOOL. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed August 18, 1928. Serial No. 271,248. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,618. SALTED NUTS. PURITY CANDY COMPANY, Beaumont, Tex.
Filed August 17, 1928. Serial No. 271,196. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,619. DEPILATORY POWDER AND DEPILATORY CREAM. HALL & RUCKEL, INC., Brooklyn, N. Y.
Filed August 17, 1928. Serial No. 271,184. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,620. DRIED PRUNES. INDEPENDENT GROWERS PACKING COMPANY, San Jose, Calif.
Filed August 20, 1928. Serial No. 271,304. PUBLISHED OCTOBER 2, 1928. Class 46.

250,621. EXTRACT OF THE SPLEEN DESIGNED TO CONTAIN THE WATER-SOLUBLE CONSTITUENTS FREED FROM CONNECTIVE TISSUE, ASSOCIATED LIPOID, AND PROTEIN TO BE USED IN THE TREATMENT OF ANEMIA. FAIRCHILD BROS. & FOSTER, New York, N. Y.
Filed August 17, 1928. Serial No. 271,175. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,622. WOVEN, KNITTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed August 17, 1928. Serial No. 271,166. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,623. FRESH CITRUS FRUITS. ARIZONA CITRUS GROWERS, Phoenix, Ariz.
Filed August 21, 1928. Serial No. 271,331. PUBLISHED OCTOBER 2, 1928. Class 46.

250,624. FRESH CITRUS FRUITS. ARIZONA CITRUS GROWERS, Phoenix, Ariz.
Filed August 21, 1928. Serial No. 271,330. PUBLISHED OCTOBER 2, 1928. Class 46.

250,625. CONFECTION COMPRISING A CANDY FOOD BAR. WILLIAM D. TRUSAS, Redding, Calif.
Filed August 20, 1928. Serial No. 271,325. PUBLISHED OCTOBER 2, 1928. Class 46.

250,626. TONIC FOR DRESSING THE HAIR. FREDERICK EUGENE ISCHERLAND, Flint, Mich.
Filed August 18, 1928. Serial No. 271,258. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,627. WHITE FIBRE TWINES. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed August 18, 1928. Serial No. 271,254. PUBLISHED SEPTEMBER 25, 1928. Class 7.

250,628. TWINE. HANOVER CORDAGE COMPANY, Hanover, Pa.
Filed August 18, 1928. Serial No. 271,253. PUBLISHED SEPTEMBER 25, 1928. Class 7.

250,629. CERTAIN NAMED CONSTRUCTION MATERIALS. GRUEBY FAIENCE AND TILE COMPANY, Boston, Mass., and Philadelphia, Pa.
Filed June 15, 1928. Serial No. 268,093. PUBLISHED AUGUST 28, 1928. Class 12.

250,630. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE COMPRISED IN WHOLE OR IN PART OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed June 15, 1928. Serial No. 268,079. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,631. COMBINED HARVESTER, THRESHER, AND SEPARATOR. GLEANER COMBINE HARVESTER CORPORATION, Independence, Mo.
Filed June 14, 1928. Serial No. 268,036. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,632. DYESTUFFS AND INTERMEDIATES. WETTERSOL DYESTUFF CORPORATION, New York, N. Y.
Filed June 13, 1928. Serial No. 268,014. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,633. PLASTER BANDAGES. LOSCHER & BOMPER A.-G., Fahr, Germany.
Filed June 13, 1928. Serial No. 267,979. PUBLISHED SEPTEMBER 25, 1928. Class 44.

250,634. FRESH, CANNED, AND FROZEN FRUITS AND FRESH BLACKBERRIES. R. D. BODLE CO., also doing business as Valley Fruit Canning Co., Seattle, Wash.
Filed June 13, 1928. Serial No. 267,927. PUBLISHED OCTOBER 2, 1928. Class 46.

250,635. FRESH, CANNED, AND FROZEN FRUITS AND FRESH BLACKBERRIES. R. D. BODLE CO., also doing business as Valley Fruit Canning Co., Seattle, Wash.
Filed June 13, 1928. Serial No. 267,926. PUBLISHED OCTOBER 2, 1928. Class 46.

250,636. AUTOMOBILE CLEANER AND AUTOMOBILE POLISHING SOLUTION. GILBERT I. SPEAR, Westbrook, Me.
Filed June 11, 1928. Serial No. 267,870. PUBLISHED OCTOBER 2, 1928. Class 16.

250,637. GROUND LIME. THE KELLEY ISLAND LIME AND TRANSPORT COMPANY, Cleveland, Ohio.
Filed June 9, 1928. Serial No. 267,775. PUBLISHED AUGUST 14, 1928. Class 12.

250,638. AUTOMOBILES AND MOTOR TRUCKS, BICYCLES, AND STRUCTURAL PARTS THEREOF, AND CAR BODIES. SAINT-DIDIER AUTOMOBILES, Paris, France.
Filed June 8, 1928. Serial No. 267,724. PUBLISHED SEPTEMBER 25, 1928. Class 19.

250,639. ENAMELED AND SHEET-METAL WARES. LALANCE & GROSJEAN MFG. CO., New York and Woodhaven, N. Y.
Filed June 8, 1928. Serial No. 267,712. PUBLISHED SEPTEMBER 25, 1928. Class 13.

250,640. SUDAN COTTON CLOTH IN THE PIECE. WILLIAM W. HOBBS, doing business as The Sudanette Company, New Bedford, Mass.
Filed June 8, 1928. Serial No. 267,709. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,641. WEEKLY MAGAZINE. THE RED STAR NEWS COMPANY, New York, N. Y.
Filed June 7, 1928. Serial No. 267,668. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,642. ASTRINGENTS, ASTRINGENT CERATES, HAND CREAMS, ETC. THINC PRODUCTS, INC., New York, N. Y.
Filed June 6, 1928. Serial No. 267,616. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,643. ASPHALTIC COMPOSITION ROOFING SHINGLES. THE FLINTKOTE COMPANY, Boston, Mass.
Filed June 6, 1928. Serial No. 267,570. PUBLISHED AUGUST 21, 1928. Class 12.

250,644. BAFFLE MIX. POWER PLANT ECONOMY CO., St. Louis, Mo.
Filed June 4, 1928. Serial No. 267,454. PUBLISHED AUGUST 7, 1928. Class 12.

250,645. CANNED FRUITS AND VEGETABLES. LUCE PACKING COMPANY, Lucedale, Miss.
Filed June 4, 1928. Serial No. 267,431. PUBLISHED OCTOBER 2, 1928. Class 46.

250,646. ARTIFICIAL BUILDING STONE. VICTOR LACHIN, doing business as Architectural Cast Stone Co., New Orleans, La.
Filed June 4, 1928. Serial No. 267,428. PUBLISHED AUGUST 7, 1928. Class 12.

250,647. MEDICINE IN THE FORM OF MEDICATED FRUITS FOR STOMACH TROUBLE AND CHRONIC CONSTIPATION. FOWLER'S MEDICATED FRUITS, Paris, Tenn.
Filed June 4, 1928. Serial No. 267,412. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,648. WOODEN SHINGLES. COAST CEDAR SHINGLE COMPANY, Seattle, Wash.
Filed June 25, 1928. Serial No. 268,583. PUBLISHED AUGUST 28, 1928. Class 12.

250,649. WOODEN SHINGLES. COAST CEDAR SHINGLE COMPANY, Seattle, Wash.
Filed June 25, 1928. Serial No. 268,582. PUBLISHED AUGUST 28, 1928. Class 12.

250,650. BLOOD PURIFIER WITH COD-LIVER OIL. ANCHOR DRUG CO., Sacramento, Calif.
Filed June 25, 1928. Serial No. 268,570. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,651. PHARMACEUTICAL PREPARATION USED FOR THE TREATMENT OF PYORRHŒA ALVEOLARIS AND AS A GENERAL MOUTH WASH. HYNAP CHEMICAL COMPANY, New York, N. Y.
Filed June 23, 1928. Serial No. 268,546. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,652. TOILET PAPER. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y.
Filed June 23, 1928. Serial No. 268,525. PUBLISHED SEPTEMBER 18, 1928. Class 37.

250,653. GENERAL TONIC. SOCIETA ANONIMA DISTILLERIE G. RAMAZZOTTI FU AUSANO, Milan, Italy.
Filed June 21, 1928. Serial No. 268,469. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,654. CHEMICALS—NAMELY, SODIUM SULPHIDE, CAUSTIC ALKALIES, AND SODIUM BISULPHATE. RHENANIA-KUNHEIM VEREIN CHEMISCHER FABRIKEN A.-G., Berlin, Germany.
Filed June 21, 1928. Serial No. 268,464. PUBLISHED OCTOBER 2, 1928. Class 6.

250,655. HARDWOOD FLOORING AND TRIM. BRADLEY LUMBER COMPANY OF ARKANSAS, Warren, Ark.
Filed June 21, 1928. Serial No. 268,418. PUBLISHED SEPTEMBER 4, 1928. Class 12.

250,656. FRESH CITRUS FRUITS. STANDARD GROWERS EXCHANGE, Orlando, Fla.
Filed June 20, 1928. Serial No. 268,402. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,657. PAINT REMOVER. JAIL BIRD PAINT REMOVER CO., Fort Wayne, Ind.
Filed June 20, 1928. Serial No. 268,376. PUBLISHED SEPTEMBER 25, 1928. Class 16.

250,658. PLASTIC ROOF COATING. MINERAL-LAC PAINT CO., INC., Philadelphia, Pa.
Filed June 19, 1928. Serial No. 268,299. PUBLISHED SEPTEMBER 4, 1928. Class 12.

250,659. REFRACTORIES AND REFRACTORY MATERIALS. ROBERT L. FRINK, Lancaster, Ohio.
Filed December 10, 1927. Serial No. 258,740. PUBLISHED SEPTEMBER 18, 1928. Class 12.

250,660. WOOLEN GOODS IN THE PIECE. WORUMBO MANUFACTURING COMPANY, Bath, Me.
Filed December 7, 1927. Serial No. 258,610. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,661. PNEUMATIC TIRES. INDIA TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed November 28, 1927. Serial No. 258,125. PUBLISHED SEPTEMBER 25, 1928. Class 35.

250,662. CERTAIN NAMED GLASS. W. P. FULLER & CO., San Francisco, Calif.
Filed November 28, 1927. Serial No. 257,977. PUBLISHED SEPTEMBER 25, 1928. Class 33.

250,663. COMPACT POWDERS AND COMPACT ROUGES, LIP STICKS, EYEBROW PENCILS, LIQUID FACE POWDER, MASCARA, SACHET TALCUM POWDER, FACE LOTION, POWDER REFILLS AND ROUGE REFILLS, LIQUID CUTICLE REMOVER, HAIR TONICS, TOILET WATER, PERFUME, NAIL POLISH, COLD CREAM, AND TOOTH PASTE. I. MILLER & SONS, INC., Long Island, N. Y.
Filed November 17, 1927. Serial No. 257,691. PUBLISHED SEPTEMBER 25, 1928. Class 6.

250,664. FAN-PULLEY PINS. HAYS-FISCHER MANUFACTURING COMPANY, Fort Worth, Tex.
Filed November 11, 1927. Serial No. 257,411. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,665. MEN'S AND BOYS' TEXTILE AND KNITTED UNDERWEAR, UNDERSHIRTS, DRAWERS. A. LUBASCH & SONS, INC., New York, N. Y.
Filed November 2, 1927. Serial No. 256,949. PUBLISHED SEPTEMBER 4, 1928. Class 39.

250,666. ALL KINDS OF SAWS, INCLUDING CROSS-CUT SAWS, CIRCULAR SAWS, GANG SAWS, DRAG SAWS, BAND SAWS, FELLOE WEBS AND SCROLL SAWS, BILGE AND BARREL-STAVE SAWS, HACK-SAW BLADES, WOOD (BUCK) SAWS, PANEL SAWS, RIPSAWS, HANDSAWS, COMPASS SAWS, KEYHOLE SAWS, PRUNING SAWS, BUTCHER SAWS; ALSO CIRCULAR KNIVES, PLASTERING TROWELS, FLOOR SCRAPERS, BENCH SCRAPERS, BELT SCRAPERS, WALL SCRAPERS, CABINET SCRAPERS, SCRAPERS CONSISTING OF STEEL PLATES HAVING CURVED EDGES SUBSTANTIALLY SQUARE WITH THE FACES OF THE PLATES, AND FLOUR TESTERS. E. C. ATKINS & COMPANY, Indianapolis, Ind.
Filed October 26, 1927. Serial No. 256,601. PUBLISHED JANUARY 24, 1928. Class 23.

250,667. BITUMINOUS MATERIALS. ARTHUR VICTOR LEGGO and ERNEST BARTON HACK, Melbourne, Victoria, Australia.
Filed October 24, 1927. Serial No. 256,527. PUBLISHED AUGUST 7, 1928. Class 12.

250,668. FRESH GRAPES. DOUGHERTY GRAPE GROWERS ASSOCIATION, Acampo and Dougherty, Calif.
Filed October 22, 1927. Serial No. 256,456. PUBLISHED OCTOBER 2, 1928. Class 46.

250,669. CERTAIN NAMED GLASS. W. P. FULLER & CO., San Francisco, Calif.
Filed October 15, 1927. Serial No. 256,111. PUBLISHED SEPTEMBER 25, 1928. Class 33.

250,670. TRESTLE TABLES, SETTEES, DAVENPORTS, LOUNGES, SOFAS, BENCHES, REFECTORY TABLES, END TABLES, SIDE TABLES, HOUSEHOLD CHAIRS, FIRESIDE BENCHES, DAY BEDS, CHAISE LOUNGES, BEDS, STANDS, SEATS, FOOTSTOOLS, HATRACKS, HANGING SHELVES, MAGAZINE RACKS, HIGH CHAIRS, DESKS, DRESSERS, AND CHESTS OF DRAWERS. NEWELL A. EDDY, Bay City, Mich.
Filed October 3, 1927. Serial No. 255,552. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,671. CANDY. THE CURTISS CANDY COMPANY, Chicago, Ill.
Filed August 19, 1927. Serial No. 253,603. PUBLISHED OCTOBER 2, 1928. Class 46.



250,672. ALUMINUM POTS, PANS, AND KETTLES FOR COOKING, COFFEE AND TEA POTS, TEA-KETTLES, GRIDDLES, AND WAFFLE IRONS. WEST BEND ALUMINUM COMPANY, West Bend, Wis.
Filed August 6, 1927. Serial No. 253,169. PUBLISHED OCTOBER 2, 1928. Class 13.

250,673. CHOCOLATE AND COCOA AND CHOCOLATE COATING. GUITTARD CHOCOLATE CO., San Francisco, Calif.
Filed July 11, 1927. Serial No. 251,832. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,674. NEWSPAPER COLUMN. JOHN WANAMAKER NEW YORK, New York, N. Y.
Filed June 28, 1927. Serial No. 251,251. PUBLISHED SEPTEMBER 18, 1928. Class 38.

250,675. COMBINED LUBRICANT TANK AND NON-MEASURING PUMP. THE BENNETT PUMPS CORPORATION, Muskegon, Mich.
Filed June 27, 1927. Serial No. 251,163. PUBLISHED SEPTEMBER 20, 1927. Class 23.

250,676. FURNITURE. WM. CAMERON & CO., INC., Waco, Tex.
Filed June 1, 1927. Serial No. 249,836. PUBLISHED SEPTEMBER 25, 1928. Class 32.

250,677. WATERPROOFING MATERIAL FOR USE IN CONCRETE OR THE LIKE. WILLIAM A. COLLINGS, Los Angeles, Calif., assignor to Silica Products Co., Los Angeles, Calif., a Corporation of Delaware.
Filed May 25, 1927. Serial No. 249,512. PUBLISHED AUGUST 7, 1928. Class 12.

250,678. ASPHALTIC SURFACING MATERIAL. JAY W. CRAIG, Minneapolis, Minn.
Filed April 28, 1927. Serial No. 248,090. PUBLISHED AUGUST 7, 1928. Class 12.

250,679. FERTILIZERS. LIMESTONE PRODUCTS CORPORATION OF AMERICA, Newton, N. J.
Filed July 23, 1928. Serial No. 270,037. PUBLISHED SEPTEMBER 25, 1928. Class 10.

250,680. FOLDABLE TOY AEROPLANES PROPELLED FROM A BLOWPIPE. ADRIANO BISSIRI, doing business as B. C.-Ree Co., Los Angeles, Calif.
Filed July 23, 1928 Serial No. 270,006. PUBLISHED SEPTEMBER 18, 1928. Class 22.

250,681. FRESH GRAPES. CHAPIN F. TUBBS, Calistoga, Calif.
Filed July 21, 1928. Serial No. 269,999. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,682. SILK FABRICS IN THE PIECE. ONONDAGA SILK CO., INC., Syracuse and New York, N. Y.
Filed July 21, 1928. Serial No. 269,979. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,683. DESSERT AND PUDDING POWDER. GUNTRATH-LORENZEN CO., Chicago, Ill.
Filed July 21, 1928. Serial No. 269,956. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,684. CERTAIN NAMED PIECE GOODS. WEISS, WILLHEIM COMPANY, INC., New York, N. Y., and Passaic, N. J.
Filed July 20, 1928. Serial No. 269,926. PUBLISHED SEPTEMBER 25, 1928. Class 42.

250,685. PUMPS AND PUMP PARTS. RANCHERS' MANUFACTURING COMPANY, Pomona, Calif.
Filed July 20, 1928. Serial No. 269,915. PUBLISHED SEPTEMBER 25, 1928. Class 23.

250,686. BOARD GAMES. AARON MASTER, Brooklyn, N. Y.
Filed July 20, 1928. Serial No. 269,905. PUBLISHED SEPTEMBER 25, 1928. Class 22.

250,687. BOARD GAMES. AARON MASTER, Brooklyn, N. Y.
Filed July 20, 1928. Serial No. 269,904. PUBLISHED OCTOBER 2, 1928. Class 22.

250,688. GINGER ALE. TRY-ME BOTTLING COMPANY OF WASHINGTON, D. C., Washington, D. C.
Filed July 19, 1928. Serial No. 269,872. PUBLISHED SEPTEMBER 25, 1928. Class 45.

250,689. STEEL REENFORCING ELEMENT FOR CONCRETE PAVEMENTS AND FLOORS. DUPLEX STEEL RE-ENFORCEMENT COMPANY, Liberty and Indianapolis, Ind.
Filed June 25, 1928. Serial No. 268,592. PUBLISHED SEPTEMBER 11, 1928. Class 12.

250,690. WOODEN SHINGLES. COAST CEDAR SHINGLE COMPANY, Seattle, Wash.
Filed June 25, 1928. Serial No. 268,584. PUBLISHED AUGUST 28, 1928. Class 12.

250,691. LAXATIVE CHEWING TABLETS. HEALTH PRODUCTS CORPORATION, Newark, N. J.
Filed June 7, 1928. Serial No. 267,656. PUBLISHED OCTOBER 16, 1928. Class 6.

250,692. GASOLINE, KEROSENE, FUEL OIL, LUBRICATING OILS, AND PARAFFIN WAX. SENECA OIL WORKS, Warren, Pa.
Filed August 16, 1927. Serial No. 253,552. PUBLISHED SEPTEMBER 25, 1928. Class 15.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

250,693. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE KENNEDY VALVE MFG. CO., Elmira, N. Y. Filed Oct. 22, 1928. Serial No. 274,112.

KENNEDY-PENNIE

For Backwater Valves.
Claims use since July 1, 1926.

250,694. (CLASS 10. FERTILIZERS.) BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Oct. 22, 1928. Serial No. 274,091.

BAUGH'S
CAROLINA
COTTON
COMPOUND

For Fertilizer.
Claims use since about 1921.

250,695. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS. NOT INCLUDING ELECTRICAL APPARATUS.) YOUNG RADIATOR CO., Racine, Wis. Filed Oct. 5, 1928. Serial No. 273,429.

Young Quality

For Unit Air Heaters Employing Hot Water and Steam as the Heating Medium and Radiators for Heating and Ventilating Apparatus.
Claims use since Sept. 24, 1927.

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250,696. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JAMES WEIR, INC., Brooklyn, N. Y. Filed Sept. 7, 1928. Serial No. 272,069.

James Weir FLORISTS

For Cut Flowers.
Claims use since January, 1910.

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250,697. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCOTT W. JOHNSON, Cincinnati, Ohio. Filed Mar. 31, 1928. Serial No. 264,108.

PURE DRUG PRODUCTS CO.

For Bleach Crème, Cold Crème, Vanishing Crème, Theatrical Crème, After-Shaving Lotion, Face Powder, Depilatories, Analeptic, Alterative, Nutritive Body Builder and Blood Purifier, Indicated in All Blood and Skin Wasting and Exhausted Conditions of the System and Made into a Perfectly Palatable Tonic, a Preparation for Acute and Chronic Bronchitis, Acute and Chronic Coughs, Laryngitis, Phthisis, Pneumonia, Pulmonary Affections, All Wasting Diseases and Exhausted Conditions of the System.
Claims use since Jan. 1, 1910.

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250,698. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STEEL DRUM ACCESSORIES CORPORATION, Buffalo, N. Y. Filed Oct. 25, 1927. Serial No. 256,588.

"SKREW"

For Cast-Iron or Steel Valves for Use on Barrels or the Like.
Claims use since Dec. 22, 1926.

250,699. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STEEL DRUM ACCESSORIES CORPORATION, Buffalo, N. Y. Filed Oct. 25, 1927. Serial No. 256,587.

"RENCH"

For Cast-Iron or Steel Valves for Use on Barrels or the Like.
Claims use since June 12, 1925.

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250,700. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) STEEL DRUM ACCESSORIES CORPORATION, Buffalo, N. Y. Filed Oct. 25, 1927. Serial No. 256,586.

"PUSH PUL"

For Cast-Iron or Steel Valves for Use on Barrels or the Like.
Claims use since Sept. 30, 1926.

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250,701. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) FEVRE & CIE., Paris, France. Filed Oct. 12, 1927. Serial No. 255,977.

FENLON

For Uncut Rock and Marble.
Claims use since Aug. 15, 1927.

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250,702. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. STEIN & CO., New York, N. Y. Filed Oct. 16, 1928. Serial No. 273,889.

AUSTRALIAN

For Woolen Goods in the Piece and in Cut Lengths.
Claims use since January, 1927.

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250,703. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ORTH FITZPATRICK, Warsaw, Ind. Filed Sept. 27, 1928. Serial No. 273,047.

BRIGHTER
"AS BRIGHT AS THE SUN"

For Ready-Mixed Paints in Paste and Liquid Form, Paint Enamels, and Varnishes.
Claims use since Jan. 1, 1915.

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250,704. (CLASS 38. PRINTS AND PUBLICATIONS.) GEORGE STORM, Enid, Okla. Filed May 11, 1928. Serial No. 266,281.

BOBBY THATCHER

For A Series of Pictures.
Claims use since Mar. 21, 1927.



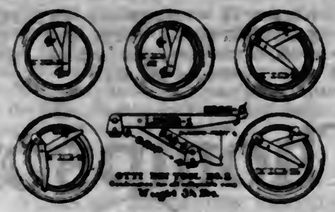
250,705. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LA VALLETTE WATCH CO., Bienne, Switzerland. Filed May 5, 1928. Serial No. 265,972.

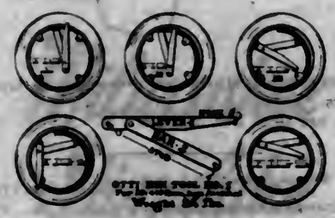
Paul Vallette Watch

For Watches and Clocks and Parts of Them.
Claims use since 1919.

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250,706. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) JOSEPH OTTI, doing business as Otti Manufacturing Company, Oklahoma City, Okla. Filed Apr. 24, 1928. Serial No. 265,343.





For Tools for Removing Rims from Automobile Tires.
Claims use since Apr. 1, 1926.

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250,707. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE CONTINENTAL SUPPLY COMPANY, St. Louis, Mo. Filed Mar. 17, 1928. Serial No. 263,308.

WILCOX SPECIAL

For Belting of Rubber and Fabric.
Claims use since Oct. 4, 1927.

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250,708. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE BRAZOS VALLEY COTTON MILLS, Dallas and West, Tex. Filed Mar. 12, 1928. Serial No. 263,027.

BRAZOS

For Cotton Duck in the Piece.
Claims use since January, 1900.

250,709. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SILVERWARE WHOLESALERS ASSOCIATION, INC., New York, N. Y. Filed Mar. 5, 1928. Serial No. 262,630.

STERLING by Croydon

For Flatware of Precious Metal Consisting of Knives, Forks, and Spoons; Trays, Bowls, Baskets, Candlesticks, Candelabra, Fruit Dishes, Condiment Dishes, Shakers, and Relish Dishes, All of Precious Metal.
Claims use since Oct. 1, 1927.

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250,710. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MINNER & CO., INC., St. Louis, Mo. Filed Dec. 15, 1927. Serial No. 258,952.

"The Trappers' Fur House"

For Animal Bait.
Claims use since on or about Oct. 1, 1927.

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250,711. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SOLOMON B. BERKOWICH, Baltimore, Md. Filed Sept. 27, 1927. Serial No. 255,291.

TEST-O-FONE

For Testing Device for Electric Wiring Systems.
Claims use since Sept. 1, 1927.

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250,712. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) METRO CHOCOLATE CO., INC., Brooklyn, N. Y. Filed Jan. 11, 1927. Serial No. 242,677.

FRUITED SQUARE

For Chocolate-Covered Marshmallow Bars.
Claims use since about July 25, 1921.

250,713. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) HENRY L. KAUFMANN, doing business as Henry L. Kaufmann & Co., Boston, Mass. Filed Mar. 30, 1926. Serial No. 229,391.

NORINKLE

For Mattress-Protecting Appliance and Parts Thereof—Namely, Rubber Sheeting and Holding Straps.
Claims use since July, 1920.

250,714. (CLASS 12. CONSTRUCTION MATERIALS.) JOSÉ SANCHIZ DE QUESADA, MARQUIS DE VALDERAS, Madrid, Spain. Filed Jan. 25, 1927. Serial No. 243,307.

MARMOL FLORIDO

For Marble, Uncut and Partly Cut.
Claims use since Nov. 26, 1926.

250,715. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa. Filed Sept. 3, 1927. Serial No. 254,370.

HEAVY DUTY STEEL

For Tool Steel in Rounds, Square, Octagon, Hexagon, Flat Bars, Discs, Blocks, Rings, and Pieces.
Claims use since middle of May, 1927.

250,716. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PITTSBURGH STEEL COMPANY, Pittsburgh, Pa. Filed Nov. 3, 1927. Serial No. 257,026.

Pittsburgh

For Metal Tubes, Wire Nails, Wire Staples, Wire Fences, Steel Posts, Gates, and Wire Fabric.
Claims use since Oct. 10, 1927.

250,717. (CLASS 12. CONSTRUCTION MATERIALS.) THE DENVER FIRE CLAY COMPANY, Denver, Colo. Filed Jan. 30, 1928. Serial No. 260,880.

GROGITE

For High-Temperature Cement or Mortar.
Claims use since Oct. 13, 1927.

250,718. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HILLYARD CHEMICAL COMPANY, St. Joseph, Mo. Filed Feb. 1, 1928. Serial No. 261,006.

BRITEN-ZIT

For Liquid Cleaner for Floors and Woodwork.
Claims use since Oct. 17, 1927.

250,719. (CLASS 37. PAPER AND STATIONERY.) WILLIAM T. MANNING, Waterbury, Conn. Filed Feb. 20, 1928. Serial No. 261,969.

PHOTOCHROME

For Stationery Forms Comprising Commercial Letterheads, Social Writing Paper, Mailing Envelopes, Invoices, Partially Printed Statements, Credit Memorandums, Order Forms, Checks, and Drafts.
Claims use since Feb. 1, 1927.

250,720. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THOMPSON MANUFACTURING COMPANY, Los Angeles, Calif. Filed June 9, 1928. Serial No. 267,812.

Thompson



For Lawn, Orchard, Garden, Nursery, and Golf Course Sprinklers.
Claims use since Feb. 1, 1926.

250,721. (CLASS 37. PAPER AND STATIONERY.) L. A. LIEBS COMPANY, INC., New York, N. Y. Filed June 28, 1928. Serial No. 268,795.

LIEBSWRAPS
*for*
*Attractive Packaging*

For Paper Wrappings for Packages.
Claims use since Sept. 29, 1927.

250,722. (CLASS 12. CONSTRUCTION MATERIALS.) JAMES A. FAULKNER, Youngstown, Ohio. Filed July 7, 1928. Serial No. 269,228.

FAULKNER'S
IMPROVED
BOND

For High-Temperature Cements.
Claims use since May 10, 1925.



250,723. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIEGELMAN LABORATORIES, INC., Los Angeles, Calif. Filed July 17, 1928. Serial No. 269,748.

SIEGELMAN'S
Perfect Make Up

For a Cosmetic Preparation for Use on Human Legs for the Purpose of Concealing Blemishes, Beautifying the Skin, and as Protection Against the Elements; Face Powder, Rouge; Eye Shadows Being a Preparation for Color Shading of the Eyelids; Lemon Cream, Freckle Cream, Bandoline, Hand Lotion, Hair Oil, Bath Powder, Mascara, Lip Sticks, Cold Cream; Theatrical Powder, Being a General Powder for Use on Body After Other Cosmetics Have Been Applied; Make-Up, Being a Cosmetic Preparation for Coloring the Skin, Serving as Protection Against the Elements, and for Beautifying Purposes.
Claims use since Jan. 1, 1926.

250,724. (CLASS 45. BEVERAGES, NONALCOHOLIC.) FRED SCHROEDER, Fort Worth, Tex. Filed Aug. 11, 1928. Serial No. 270,890.

*Milwaukee*
*Stimulator*

For Carbonated, Nonalcoholic, Noncereal Maltless Beverages Sold as Soft Drinks, and Consisting of a Combination of Cola and Fruit Flavors, and Syrups for Making the Same.
Claims use since May 1, 1927.

250,725. (CLASS 12. CONSTRUCTION MATERIALS.) UTICA HYDRAULIC CEMENT COMPANY, Utica, Ill. Filed Sept. 18, 1928. Serial No. 272,368.

UTICA
HYDRAULIC
CEMENT

For Building Cement.
Claims use since 1922.

250,726. (CLASS 11. INKS AND INKING MATERIALS.) PEERLESS ROLL LEAF CO., INC., New York, N. Y. Filed Oct. 13, 1928. Serial No. 273,770.

*Roll Ink*

For Imitation Metal Leaf and Pigment Mounted on a Roll of Paper.
Claims use since Dec. 1, 1923.

## TRADE-MARK REGISTRATIONS RENEWED

31,856. CERTAIN NAMED MEDICINAL CONFECTIONS, BEVERAGES, AND PREPARATIONS. Registered August 9, 1898. OBERHAEUSSER & LANDAUER. Renewed August 9, 1928, to Hermann Oberhaeusser, doing business as Oberhaeusser & Landauer, Wurzburg, Germany, successor.

32,195. FLUID-PRESSURE REGULATORS HAVING BALL-BEARING VALVES. Registered November 29, 1898. CLEVELAND FAUCET CO. Renewed November 29, 1928, to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio, successor.

32,639. CONDENSED COFFEE. Registered March 28, 1899. NEW YORK CONDENSED MILK COMPANY. Renewed March 28, 1929, to The Borden Company, New York, N. Y., a Corporation of New Jersey, assignee.

68,384. ROOFING TIN. Registered April 7, 1908. JOHN S. HOY. Renewed April 7, 1928, to Hoy & Co. Inc., Albany, N. Y., a Corporation of New York, successor.

68,477. TIN ROOFING. Registered April 14, 1908. JOHN S. HOY. Renewed April 14, 1928, to Hoy & Co. Inc., Albany, N. Y., a Corporation of New York, successor.

68,478. TIN ROOFING. Registered April 14, 1908. JOHN S. HOY. Renewed April 14, 1928, to Hoy & Co. Inc., Albany, N. Y., a Corporation of New York, successor.

69,918. STRINGS FOR MUSICAL INSTRUMENTS. Registered July 14, 1908. MICHAEL E. SCHOENING. Renewed July 14, 1928, to Carl Fischer, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,366. STOVES, FURNACES, AND RANGES AND ALL PARTS THEREOF. Registered August 25, 1908. DETROIT STOVE WORKS. Renewed August 25, 1928, to Detroit-Michigan Stove Co., Detroit, Mich., a Corporation of Michigan, assignee.

70,632. BRAIDS, TAPES, BINDINGS, AND TRIMMINGS. Registered September 15, 1908. SANFORD NARROW FABRIC CO., Pawtucket, R. I., and New York, N. Y. Renewed September 15, 1928, to Sanford Narrow Fabric Co., Inc., Pawtucket, R. I., a Corporation of New York, assignee.

71,334. ENAMEL PAINT. Registered November 17, 1908. ERNECKE AND SALMSTEIN. Renewed November 17, 1928, to Ernecke and Salmstein Co., Chicago, Ill., a Corporation of Illinois, successor.

71,356. SOFT GELATIN CAPSULES, FILLED AND UNFILLED. Registered November 17, 1908. GRAPE CAPSULE COMPANY, Allentown, Pa., a Corporation of Pennsylvania. Renewed November 17, 1928.

71,365. CERTAIN PAINTERS' MATERIALS. Registered November 24, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed November 24, 1928.

71,366. CERTAIN PAINTERS' MATERIALS. Registered November 24, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed November 24, 1928.

71,434. CERTAIN MEDICINES. Registered November 24, 1908. DR. BOB MEDICAL COMPANY. Renewed November 24, 1928, to Robert C. Dickinson, Erie, Pa., successor.

71,532. "UNION SUITS," UNDERSHIRTS, AND UNDERDRAWERS. Registered December 1, 1908. NAZARETH WAIST CO., Nazareth, Pa., and New York, N. Y. Renewed December 1, 1928, to Nazareth Waist Company, Nazareth, Pa., a Corporation of Pennsylvania.

71,536. PEELED GREEN CHILLI AND VEGETABLE SAUCES FOR MEATS AND STEWS. Registered December 1, 1908. ROYAL PACKING CO., Los Angeles, Calif., a Corporation of California. Renewed December 1, 1928.

71,561. STRINGS FOR MUSICAL INSTRUMENTS. Registered December 1 1908. MICHAEL E. SCHOENING. Renewed December 1 1928, to Carl Fischer, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

71,571. PAINTS, STAINS, AND COLORS. Registered December 1, 1908. THE A. WILHELM COMPANY, Reading, Pa., a Corporation of Pennsylvania. Renewed December 1, 1928.

71,810. WHEAT FLOUR. Registered December 15, 1908. GOPHER STATE MILLING COMPANY, Little Falls, Minn. Renewed December 15, 1928, to Northwestern Milling Company, Minneapolis, Minn., a Corporation of Minnesota, successor.

71,869. HEATING AND COOK STOVES. Registered December 15, 1908. FRANK A. KLAINE. Renewed December 15, 1928, to The F. A. Klaine Co., Cincinnati, Ohio, a Corporation of Ohio, successor.

71,984. BLOOD-FORMING AND BLOOD-IMPROVING PREPARATION. Registered December 29, 1908. AKTIENGESELLSCHAFT HOMMEL'S HAEMATOGEN, Zurich, Switzerland, a Corporation of Switzerland. Renewed December 29, 1928.

72,101. EVAPORATED MILK. Registered January 5, 1909. HELVETIA MILK CONDENSING COMPANY, Highland, Ill. Renewed January 5, 1929, to Pet Milk Company, St. Louis. Mo., a Corporation of Delaware, assignee.

72,214. CONDENSED MILK. Registered January 12, 1909. BORDEN'S CONDENSED MILK COMPANY. Renewed January 12, 1929, to The Borden Company, New York, N. Y., a Corporation of New York, by change of name.

72,222. HANDLES FOR SELF-CLOSING BIBS AND FAUCETS. Registered January 12, 1909. H. MUELLER MANUFACTURING COMPANY. Renewed January 12, 1929, to Mueller Co., Decatur, Ill., a Corporation of Illinois, by change of name.

72,270. CERTAIN CLOTHING. Registered January 12, 1909. HIBBEN, HOLLWEG & COMPANY. Renewed January 12, 1929, to Hibben, Hollweg & Co., Indianapolis, Ind., a Corporation of Indiana, successor.

72,377. COLD-WATER PAINT. Registered January 19, 1909. THE MURALO COMPANY, New York and Brighton, N. Y. Renewed January 19, 1929, to The Muralo Company, Inc., New Brighton, N. Y., a Corporation of New York, assignee.

72,378. COLD-WATER PAINT. Registered January 19, 1909. THE MURALO COMPANY, New York and Brighton, N. Y. Renewed January 19, 1929, to The Muralo Company, Inc., New Brighton, N. Y., a Corporation of New York, assignee.

72,453. COFFEE. Registered January 26, 1909. FORT SMITH COFFEE COMPANY, as assignee of Fort Smith Commission Company. Renewed January 26, 1929, to Fort Smith Coffee Company, Fort Smith, Ark., a Corporation of Arkansas, assignee.

72,599. HEALING SALVE FOR ANIMALS. Registered February 9, 1909. BICKMORE GALL CURE CO. Renewed February 9, 1929, to The Bickmore Company, Oldtown, Me., a Corporation of Maine, by change of name.

72,610. MEDICINE FOR SYPHILIS AND VENEREAL CONTAGIOUS BLOOD DISEASES. Registered February 9, 1909. VIAL, Paris, France. Renewed February 9, 1929, to Laboratorie De Pharmacologie, Inc., New York, N. Y., a Corporation of New York, successor.

72,621. LINEN PIECE GOODS. Registered February 9, 1909. THE OLD BLEACH LINEN COMPANY, LIMITED, Randalstown, Ireland. Renewed February 9, 1929, to Old Bleach Linen Company, Ltd., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

72,677. INSULATED ELECTRICAL CONDUCTORS. Registered February 9, 1909. THE ACME WIRE COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed February 9, 1929.

72,678. INSULATED ELECTRICAL CONDUCTORS. Registered February 9, 1909. THE ACME WIRE COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed February 9, 1929.

72,679. INSULATED ELECTRICAL CONDUCTORS. Registered February 9, 1909. THE ACME WIRE COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed February 9, 1929.

72,726. REMEDY FOR CORNS, WARTS, BUNIONS, AND CALLOUSES. Registered February 16, 1909. NEIL C. POLSON, Kingston, Canada, and Hartford, Conn. Renewed February 16, 1929, to N. C. Polson, doing business as C. C. Polson & Company, Limited, Montreal, Canada, and Rouses Point, N. Y.

72,754. METAL POLISH. Registered February 16, 1909. INTERNATIONAL METAL POLISH CO., Indianapolis, Ind., a Corporation of Indiana. Renewed February 16, 1929.

72,768. YARN. Registered February 16, 1909. HIBBEN, HOLLWEG & COMPANY. Renewed February 16, 1929, to Hibben, Hollweg & Company, Indianapolis, Ind., a Corporation of Indiana, successor.

72,778. CANNED SALMON AND CANNED OYSTERS. Registered February 23, 1909. A. BOOTH & COMPANY, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind.; and Port Arthur, Canada. Renewed February 23, 1929, to Booth Fisheries Company, Chicago, Ill., a Corporation of Delaware, successor.

72,780. WHEAT FLOUR AND CORN MEAL. Registered February 23, 1909. THE ALLEN & WHEELER CO., Troy, Ohio, a Corporation of Ohio. Renewed February 23, 1929.

72,850. GINGHAM. Registered March 2, 1909. AMOSKEAG MANUFACTURING COMPANY. Renewed March 2, 1929, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

72,889. STEAM CLOTHES-PRESSING MACHINES. Registered March 2, 1909. UNITED STATES HOFFMAN COMPANY, Syracuse, N. Y. Renewed March 2, 1929, to United States Hoffman Machinery Corporation, New York, N. Y., a Corporation of Delaware, assignee.

72,996. CLOTH, LEATHER, AND SILK GLOVES. Registered March 9, 1909. THE BLACHNER-MOSES CO. Renewed March 9, 1929, to Bacmo-Postman Co. Inc., New York and Gloversville, N. Y., a Corporation of New York, successor.

73,087. HOSIERY. Registered March 16, 1909. THE JOEL BAILY DAVIS CO., Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 16, 1929.

73,108. TAPES AND BINDINGS. Registered March 16, 1909. KROUT & FITE MANUFACTURING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 16, 1929.

73,109. TAPES AND BINDING. Registered March 16, 1909. KROUT & FITE MANUFACTURING COMPANY, Philadelphia, Pa., a Corporation of Pennsylvania. Renewed March 16, 1929.

73,126. CALCIMINE. Registered March 16, 1909. THE MURALO COMPANY, New York and New Brighton, N. Y. Renewed March 16, 1929, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania, assignee.



73,129. ELECTROMAGNETS. Registered March 16, 1909. THE ACME WIRE COMPANY, New Haven, Conn., a Corporation of Connecticut. Renewed March 16, 1929.

73,134. CERTAIN ELECTRICAL SUPPLIES. Registered March 16, 1908. THE F. BISSELL COMPANY, Toledo, Ohio, a Corporation of Ohio. Renewed March 16, 1929.

73,185. TENNIS RACKETS, TENNIS BALLS, AND TENNIS NETS. Registered March 16, 1909. THE FAIR, Chicago, Ill., a Corporation of Illinois. Renewed March 16, 1929.

73,172. SORGHUM, MOLASSES, AND SYRUP. Registered March 23, 1909. BLISS SYRUP REFINING CO. Renewed March 23, 1929, to Bliss Syrup & Preserving Co., Kansas City, Mo., a Corporation of Missouri, successor.

73,255. FISHING TACKLE. Registered April 6, 1909. CLARK-HORROCKS CO. Renewed April 6, 1929, to Horrocks-Ibbotson Company, Utica, N. Y., a Corporation of New York, successor.

73,256. FISHING TACKLE. Registered April 6, 1909. CLARK-HORROCKS CO. Renewed April 6, 1929, to Horrocks-Ibbotson Company, Utica, N. Y., a Corporation of New York, successor.

73,257. FISHING TACKLE. Registered April 6, 1909. CLARK-HORROCKS CO. Renewed April 6, 1929, to Horrocks-Ibbotson Company, Utica, N. Y., a Corporation of New York, successor.

73,285. CERTAIN FOODS. Registered April 6, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed April 6, 1929.

73,345. A REMEDY FOR RHEUMATISM. Registered April 13, 1909. HOWELL M. STRANGE, Woodlawn, Ala. Renewed April 13, 1929, to Howell M. Strange, Birmingham, Ala.

73,350. BOLTS AND SCREWS. Registered April 13, 1909. BUFFALO BOLT COMPANY, North Tonawanda, N. Y., a Corporation of New York. Renewed April 13, 1929.

73,372. CERTAIN FOODS. Registered April 13, 1909. NATIONAL GROCER COMPANY, Chicago, Ill. Renewed April 13, 1929, to National Grocer Company, Detroit, Mich., a Corporation of Michigan.

73,385. CERTAIN FOODS. Registered April 13, 1909. STROHMEYER & ARPE CO., New York, N. Y., a Corporation of New York. Renewed April 13, 1929.

73,410. OVERCOATS, COATS, VESTS, AND TROUSERS. Registered April 20, 1909. BLOCK BROS. CLOTHING CO., St. Joseph, Mo., a Corporation of Missouri. Renewed April 20, 1929.

73,420. COTTON GOODS WOVEN IN COLORS. Registered April 20, 1909. AMOSKEAG MANUFACTURING COMPANY. Renewed April 20, 1929, to Amoskeag Manufacturing Company, Manchester, N. H., trustees under a Declaration of Trust of Massachusetts, assignee by mesne assignments.

73,459 CANNED SALMON. Registered April 20, 1909. THEO. H. DAVIES & CO. LTD., Honolulu, Hawaii. Renewed April 20, 1929, to Theo. H. Davies & Co. Ltd., San Francisco, Calif., a Corporation of the Territory of Hawaii.

73,461. CANNED SALMON. Registered April 20, 1909. THEO. H. DAVIES & CO. LTD., Honolulu, Hawaii. Renewed April 20, 1929, to Theo. H. Davies & Co. Ltd., San Francisco, Calif., a Corporation of the Territory of Hawaii.

73,470. CHEMICALS FOR REMOVING SCALE, RUST, AND SAND FROM IRON AND STEEL. Registered April 20, 1909. THE HANSON & VAN WINKLE CO., Newark, N. J. Renewed April 20, 1929, to Hanson-Van Winkle-Munning Company, Matawan, N. J., a Corporation of New Jersey, assignee.

73,553. LEATHER BELTING, PUMP CUPS, VALVES, AND WASHERS. Registered April 27, 1909. L. P. DEGEN BELTING COMPANY, San Francisco, Calif., a Corporation of California. Renewed April 27, 1929.

# LABELS

## REGISTERED DECEMBER 11, 1928.

35,051.—*Title:* ARCTURUS A-C POWER AMPLIFIER TYPE 071H. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 3, 1928.

35,052.—*Title:* ARCTURUS A-C AMPLIFIER TYPE 126. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 3, 1928.

35,053.—*Title:* ARCTURUS A-C AMPLIFIER TYPE 126H. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 3, 1928.

35,054.—*Title:* ARCTURUS A-C DETECTOR TYPE 127. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 3, 1928.

35,055.—*Title:* ARCTURUS A-C AMPLIFIER TYPE 48. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 25, 1928.

35,056.—*Title:* ARCTURUS A-C POWER AMPLIFIER TYPE 40. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 25, 1928.

35,057.—*Title:* ARCTURUS A-C FULL WAVE RECTIFIER TYPE 180. For Radiotubes. ARCTURUS RADIO COMPANY, Newark, N. J. Published October 3, 1928.

35,058.—*Title:* ARWELL KLOROGAS. For Household Deodorant and Insecticide. ARWELL PRODUCTS COMPANY, Waukegan, Ill. Published October 20, 1928.

35,059.—*Title:* BETTINA'S. For Confectionery. ELIZABET BEYE, doing business as Bettina's, New York, N. Y. Published September 15, 1927.

35,060.—*Title:* LADY LANE ARCH-SUPPORTING SHOES. For Shoes. LANE BRYANT, INC., doing business as Lane Bryant, New York, N. Y. Published August 21, 1928.

35,061.—*Title:* CACHEW NUT. For Cashew Nuts. SIMON COHN, doing business as Confecto Products Co., Coral Gables, Miami, Fla. Published August 30, 1928.

35,062.—*Title:* GINGER-BUBBLES. For Ginger Ale. AUGUST C. DITTRICH, Chicago, Ill. Published January 30, 1928.

35,063.—*Title:* BLUE FLAG. For Fresh Deciduous Fruits. EARL FRUIT COMPANY, Wenatchee, Wash. Published June 22, 1928.

35,064.—*Title:* NU-A-GAIN. For Liquid Polish For Varnished and Lacquered Surfaces. C. W. FLEMING AND CO., Cleveland, Ohio. Published October 6. 1928.

35,065.—*Title:* DEUTSCHER CLUB PALE DRY GINGER ALE. For Ginger Ale. INDEPENDENT MILWAUKEE BREWERY, Milwaukee, Wis. Published October 16, 1928.

35,066.—*Title:* DEUTSCHER CLUB PALE DRY GINGER ALE. For Ginger Ale. INDEPENDENT MILWAUKEE BREWERY, Milwaukee, Wis. Published October 16, 1928.

35,067.—*Title:* JEWEL MOUNTAIN BLEND COFFEE. For Coffee. JEWEL TEA CO., INC., Central Valley, N. Y., and Chicago, Ill. Published August 25, 1928.

35,068.—*Title:* CAPE COD COOKIES. For Cookies. JOHNSON EDUCATOR FOOD CO., Cambridge, Mass. Published September 26, 1928.

35,069.—*Title:* CAPE COD COOKIE. For Cookies. JOHNSON EDUCATOR FOOD CO., Cambridge, Mass. Published September 26, 1928.

35,070.—*Title:* FOOT SAVER SHOES. For Footwear. THE JULIAN & KOKENGE COMPANY, Cincinnati, Ohio. Published June 27, 1928.

35,071.—*Title:* PACK-O-BULK. For Rice. LAKE CHARLES RICE MILLING COMPANY OF LOUISIANA, INC., Lake Charles, La. Published August 29, 1928.

35,072.—*Title:* GRANDMA'S OATMEAL COOKIES. For Oatmeal Cookies. LANTZ BROS. BAKING CO., St. Louis, Mo. Published October 26, 1928.

35,073.—*Title:* GRANDMA'S HONEY COCOANUT MACAROONS. For Macaroons. LANTZ BROS. BAKING CO., St. Louis, Mo. Published October 26, 1928.

35,074.—*Title:* AL. LITTLEBEAR'S 'WIGWAM' INDIAN HERB TONIC. For a Combination of Herbs as a Medicine. AL. LITTLEBEAR, Dayton, Ohio. Published September 13, 1928.

35,075.—*Title:* AL. LITTLEBEAR'S 'WIGWAM' INDIAN OIL. For Combination of Oils, Gums, and Herbs. AL. LITTLEBEAR, Dayton, Ohio. Published September 13, 1928.

35,076.—*Title:* HONORS. For Bridge Scorer. MAGNETIK NOVELTY CORP., New York, N. Y. Published September 14, 1928.

35,077.—*Title:* THE REPUTATION BEHIND THIS TAG IS THE GROCER'S REAL SAFEGUARD. For Potatoes. ALBERT MILLER & COMPANY, Chicago, Ill. Published October 5, 1928.

35,078.—*Title:* THIS TAG IDENTIFIES BILL SPUD BRAND SEED. For Potatoes. ALBERT MILLER & COMPANY, Chicago, Ill. Published October 5, 1928.

35,079.—*Title:* TO THE RETAILER. For Potatoes. ALBERT MILLER & COMPANY, Chicago, Ill. Published October 5, 1928.

35,080.—*Title:* ALL NATIONS. For Baseball Uniforms. PETER MOOTZ, Spokane, Wash. Published July 6, 1928.

35,081.—*Title:* GOLDEN BEAR COMB HONEY. For Honey. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Published September 18, 1928.

35,082.—*Title:* GOLDEN BEAR HONEY. For Honey. MOUNTAIN STATES HONEY PRODUCERS ASSOCIATION, Boise, Idaho. Published September 18, 1928.

35,083.—*Title:* MYSTIC RUB. For Liniment. MYSTIC PHARMACAL CO., Baltimore, Md. Published June 22, 1928.

35,084.—*Title:* HAN-DEE BREAD. For Bread. PAPERNDICK BAKERY CO., St. Louis, Mo. Published October 15, 1928.

35,085.—*Title:* PICO BRAND BARLEY MALT SYRUP. For Barley-Malt Syrup. PILZNER IMPORTING CO., New York, N. Y. Published October 1, 1928.

35,086.—*Title:* BLUE-BILL. For Canned Salmon. POINT ADAMS PACKING CO., Hammond, Oreg. Published October 15, 1928.

35,087.—*Title:* IT. For Confection Bar. REGAL CONFECTIONS COMPANY, Los Angeles, Calif. Published July 1, 1928.

35,088.—*Title:* FOR YOU. For Candy. REICHARDT COCOA & CHOCOLATE CO., INC., doing business as Reichardt, New Brunswick, N. J. Published May 1, 1928.

35,089.—*Title:* REITER OIL, FOR COOKING, FOR SALADS, FOR FRYING. For Salad Oil. BENNIE REITER, doing business as Reiter Oil Co., Not Inc., Chicago, Ill. Published June 2, 1924.

35,090.—*Title:* HAVE YOU IT. For a Card Game. SELCHOW AND RIGHTER CO., New York and Brooklyn, N. Y. Published February 12, 1928.

# PRINTS

## REGISTERED DECEMBER 11, 1928.

11,371.—*Title:* COLUMBIA CLAY CO. For Sewer Pipe, Wall Coping, Flue Lining, Flue Pipe, Chimney Tops, Fire Brick, Fire Clay, Hollow Building Tile, and Drainage. COLUMBIA CLAY COMPANY, Columbia, S. C. Published October 20, 1928.

11,372.—*Title:* DAGGETT'S CHOCOLATES 'ALWAYS.' For Chocolates. THE DAGGETT CHOCOLATE CO., Cambridge, Mass. Published September 8, 1928.

11,373.—*Title:* WHY FORHAN'S. For Tooth Paste. FORHAN COMPANY, New York, N. Y. Published October 1, 1928.

11,374.—*Title:* FORHAN'S ANTISEPTIC REFRESHANT. For Mouth Wash. FORHAN COMPANY, New York, N. Y. Published October 1, 1928.

11,375.—*Title:* DON'T BE A TRILLIUM. For Mouth Wash. FORHAN COMPANY, New York, N. Y. Published October 1, 1928.

11,376.—*Title:* WE USE RICH CREAM, TOO. For Cream of Tomato Soup. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published November 1, 1928.

11,377.—*Title:* THE NEW INTERNATIONAL METERED MAILING MACHINE. For Machines Used in Sealing, Postmarking, and Countering or Metering Mail and Parts Therefor. THE INTERNATIONAL METERED MAILING MACHINE, Brooklyn, N. Y. Published September 26, 1928.

11,378.—*Title:* NORTHERN HEMLOCK. For Hemlock Lumber. THE NORTHERN HEMLOCK MFRS. OF MICHIGAN AND WISCONSIN, Oshkosh, Wis. Published Mar. 1, 1926.
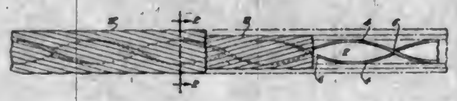
11,379.—*Title:* CREAM OF THE SOUTH. For Ice Cream. SOUTHERN DAIRIES, INC., Washington, D. C. Published April 1, 1928.

11,380.—*Title:* WELCH CONCORD HARVEST BULLETIN, NUMBER TWO. For Grape Juice. THE WELCH GRAPE JUICE COMPANY, Westfield, N. Y. Published October 17, 1928.

# REISSUES

## DECEMBER 11, 1928.

17,156. HOLLOW CONDUCTOR. WILLIAM H. BASSETT, Cheshire, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 17, 1927. Serial No. 192,124. Original No. 1,597,422, dated Aug. 24, 1926, Serial No. 741,343, filed Oct. 3, 1924. 9 Claims. (Cl. 173—13.)



1. In a conducting cable comprising a series of strands cabled so as to form a tube, a core formed by a twisted strip having thickened conducting portions forming spiral surfaces engaged by said strands and supporting the same.

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17,157. PURIFICATION OF BUTYRIC ALDEHYDE. CHARLES BOGIN, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland. Filed Apr. 7, 1928. Serial No. 268,370. Original No. 1,556,067, dated Oct. 6, 1925, Serial No. 712,888, filed May 12, 1924. 10 Claims. (Cl. 260—138.)

1. A process for the purification of butyric aldehyde consisting in vacuum-distilling the aldehyde in the presence of sufficient water to form a constant-boiling mixture with the aldehyde.

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17,158. MULTIPLE TELEPHONY. ERNST RUHMER, deceased, Berlin, Germany, by Edwin Gruhl, assignee, New York, N. Y., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 21, 1925. Serial No. 10,983. Original application filed Apr. 4, 1911, Serial No. 618,871, and in France Apr. 5, 1910. Renewed Feb. 4, 1919, Serial No. 275,001. Original No. 1,356,222, dated Oct. 19, 1920. 6 Claims. (Cl. 179—15.)

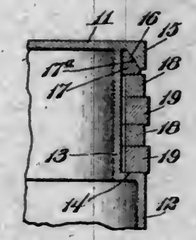


1. The combination with a conductor, of transmission means coupled thereto for impressing electric oscillations thereon, receiving means associated with said transmission means, and shifting means operative to place either said transmission means or said receiving means into operative relation to said conductor and to simultaneously modify the coupling between said conductor and said transmission means.

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17,159. PISTON FOR INTERNAL-COMBUSTION ENGINES. HENRY R. YOUNG, Muskegon, Mich. Filed Mar. 4, 1927. Serial No. 172,917. Original No. 1,557,648, dated Oct. 20, 1925, Serial No. 741,607, filed Oct. 4, 1924. 2 Claims. (Cl. 74—109.)

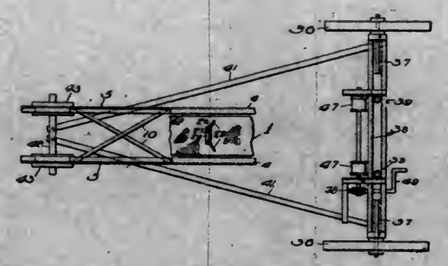
1. A piston and ring construction for use in a cylinder comprising a piston having a head and skirt portion, said skirt portion having a relatively wide circumferential groove, a closed rear wall for the groove, closed shoulders for the groove, one of said shoulders being substantially perpendicular to the skirt, and the other of said shoulders being undercut to provide a downwardly and outwardly slanting surface, a plurality of rings in this relatively wide groove including a plurality of sealing rings which normally expand outwardly to seal against the cylinder, all of said rings having sides substantially perpendicular to the skirt of the piston and resting one upon the other with one end ring resting upon the said shoulder which is substantially perpendicular to the skirt, and a compensating ring which is disposed in the said undercut and which has a slanting



surface which contacts with the corresponding surface of the undercut, said compensating ring being outwardly expanding so as to pack the rings together tightly against the said perpendicular shoulder of the groove whereby the rings are tightly held between the said two shoulders and the rings effect a seal between themselves and the closed wall of the groove, while the outward expanding tendency of the rings to effect a sealing pressure with the cylinder walls remain substantially constant.

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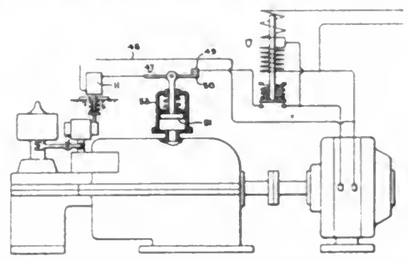
17,160. PORTABLE CONVEYER. HARRY H. BARBER, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a Corporation of Illinois. Filed May 7, 1928. Serial No. 275,946. Original No. 1,589,091, dated June 15, 1926, Serial No. 260,934, filed Nov. 4, 1918. 22 Claims. (Cl. 198—121.)



8. The combination of a transversely flexible conveyer belt, troughing rollers engaging and upbending its marginal portions, and flights transversely mounted on the belt secured only to the middle portion thereof with their laterally extending portions spaced away from the belt surface.

12. In a conveyer truck, an inclined boom adapted to have one end located at a predetermined point, a two-wheeled support pivotally connected to said boom above the nose thereof and movably responsive to variations in the inclination of said boom for maintaining said end at said predetermined point.

17,161. TURBINE-GOVERNING SYSTEM. WILLIAM INNES, Monkseaton, England, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 10, 1928. Serial No. 311,683. Original No. 1,669,522, dated May 15, 1928, Serial No. 635,527, filed Aug. 3, 1923, and in Great Britain Aug. 4, 1922. 11 Claims. (Cl. 290—40.)



6. In an emergency governor for a turbine driving an electric generator, electrically operated means effective to control the turbine, a circuit for the electrically operated means, and means responsive to an operating condition of the turbine which varies with the load thereon together with means responsive to variations in electric load on the generator for controlling the circuit.

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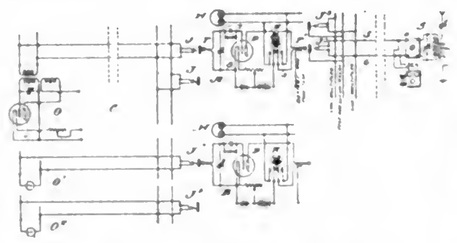
17,162. PROCESS OF REMOVING HYDROGEN SULPHIDE FROM COAL OR WATER GASES. WILLIAM E. LEUCHTENBERG, New York, N. Y. Filed Nov. 1, 1928. Serial No. 316,562. Original No. 1,629,396, dated May 17, 1927, Serial No. 44,925, filed July 20, 1925. 5 Claims. (Cl. 23—3.)

1. In a process for removing hydrogen sulphide from coal or water gases by treating the gases with an alkali carbonate solution to absorb the hydrogen sulphide, then activating the solution containing the hydrogen sulphide by passing the foul solution counter to a flow of air, the improvement which consists in removing the hydrogen sulphide from the air by passing it continuously upwardly through a stream of substantially dry discrete particles of iron oxide in active condition moving continuously downwardly through a container, continuously supplying fresh oxide at the top of the container, and withdrawing fouled or spent oxide at the bottom, and discharging the purified air from the container after passing through the newly supplied oxide.

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17,163. RADIO BROADCAST SELECTING AND DISTRIBUTING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Jan. 5, 1927. Serial No. 159,248. Original No. 1,522,360, dated Jan. 6, 1925, Serial No. 693,993, filed Feb. 29, 1924. 10 Claims. (Cl. 250—6.)

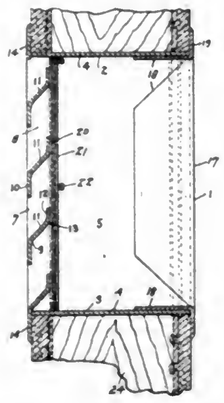
10. In a system of broadcast distribution the method of receiving signals modulated on carrier waves of superaudio frequency which consists in absorbing the energy of said waves, producing at a distant point other energy in the form of unmodulated asymmetric pulsating current at a frequency of the same order as that of the absorbed waves,



transmitting said produced energy, combining said produced energy with said absorbed waves and causing the resultant current wave to produce sound waves corresponding to the original signal modulations.

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17,164. WALL LOUVER VENTILATOR. ROBERT J. MILLER, Oakland, Calif. Filed Mar. 30, 1927. Serial No. 179,682. Original No. 1,613,047, dated Jan. 4, 1927, Serial No. 35,566, filed June 8, 1925. 4 Claims. (Cl. 98—121.)

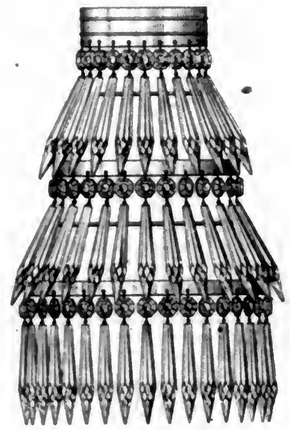


1. In combination, a box adapted for insertion in a wall and a louver front soldered to the front end thereof to project beyond the same so as to present an all-around flange, the louver front having parallel horizontal sections bent backward to contact the walls of the box and having the ends of said sections soldered to the said walls.

# DESIGNS

## DECEMBER 11, 1928.

77,144. LAMP SHADE. LUIGI ALBINO, Brooklyn, N. Y. Filed July 28, 1928. Serial No. 27,612. Term of patent 7 years.



The ornamental design for a lamp shade substantially as shown.

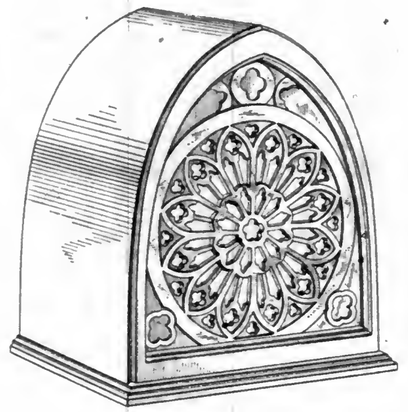
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77,145. ICE-CREAM CONE. JAMES L. BALTON, Baltimore, Md. Filed Aug. 28, 1928. Serial No. 27,978. Term of patent 3½ years.



The ornamental design for an ice cream cone as shown.

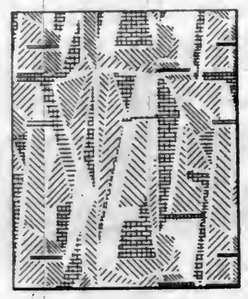
77,146. LOUD-SPEAKER CASING. CLAIR L. FARRAND, Forest Hills, N. Y. Filed June 8, 1928. Serial No. 27,051. Term of patent 14 years.



The ornamental design for a loud speaker casing substantially as shown.

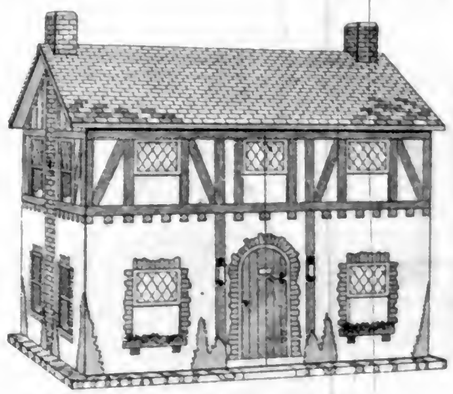
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77,147. COVER PAPER OR THE LIKE. WILLIAM S. FOWLER, Holyoke, Mass., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1928. Serial No. 26,389. Term of patent 7 years.



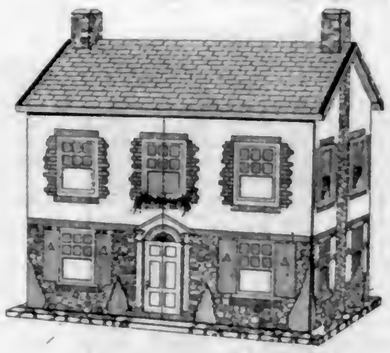
The ornamental design for cover paper or the like as shown and described.

77,148. TOY HOUSE. JAMES HENLY FRIER, Jr., Webster Groves, Mo. Filed Sept. 19, 1928. Serial No. 28,203. Term of patent 14 years.



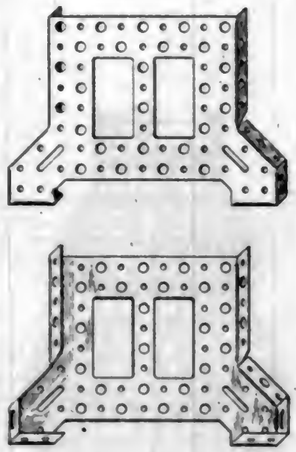
The ornamental design for a toy house, substantially as shown.

77,149. TOY HOUSE. JAMES HENLY FRIER, Jr., Webster Groves, Mo. Filed Sept. 19, 1928. Serial No. 28,205. Term of patent 14 years.



The ornamental design for a toy house, substantially as shown.

77,150. TOY MACHINE FRAME. ALFRED C. GILBERT, Hamden, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Maryland. Filed May 10, 1928. Serial No. 26,624. Term of patent 14 years.



The ornamental design for a toy machine frame substantially as shown.

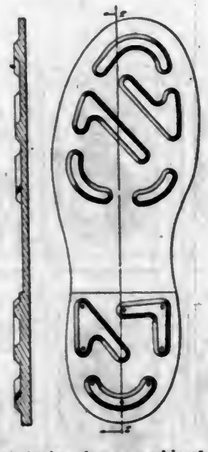
77,151. COMBINATION LAVATORY AND DRESSING TABLE. LUCY JANE GRAHAM, New York, N. Y., assignor to Crane Co., Chicago, Ill., a Corporation of Illinois. Filed May 12, 1928. Serial No. 26,651. Term of patent 14 years.



The ornamental design for a combination lavatory and dressing table as shown.

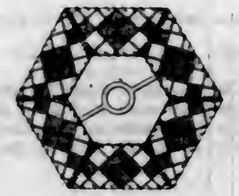


77,152. COMBINED SOLE AND HEEL. EDWARD F. GREENE, New York, N. Y., assignor to Revere Rubber Company, Chelsea, Mass., a Corporation of Rhode Island. Filed Jan. 21, 1928. Serial No. 24,969. Term of patent 14 years.



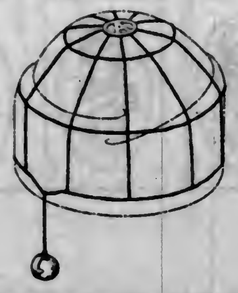
The ornamental design for a combined sole and heel, as shown.

77,153. LAMP SHADE. HAROLD GROBMAN, Brooklyn, N. Y. Filed Oct. 8, 1928. Serial No. 28,407. Term of patent 8½ years.



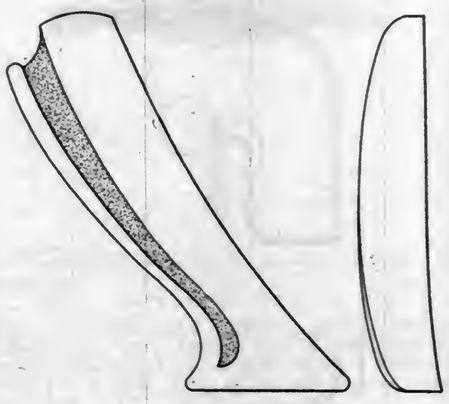
The ornamental design for a lamp shade, as shown.

77,154. HAT NET. GULIELMUS V. HEIDT, Governors Island, N. Y. Filed Apr. 19, 1928. Serial No. 26,380. Term of patent 7 years.



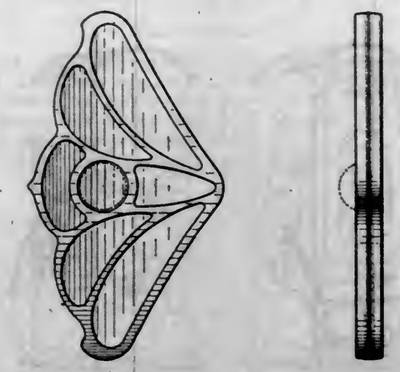
The ornamental design for a hat net as shown and described.

77,155. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,734. Term of patent 14 years.



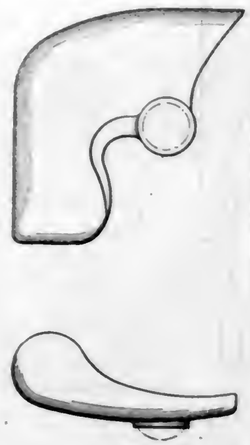
The ornamental design for a clamp plate substantially as shown.

77,156. CLAMP PLATE. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Mar. 7, 1928. Serial No. 25,737. Term of patent 14 years.



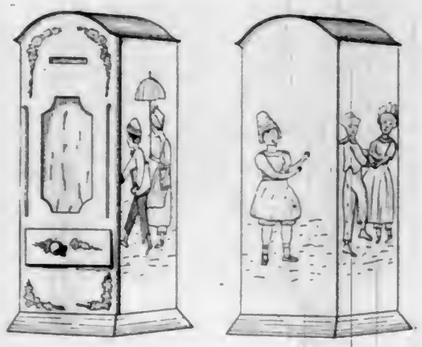
The ornamental design for a clamp plate, substantially as shown and described.

77,157. PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and JOHN RICHARD MORGAN, Detroit, Mich., assignors to the C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed May 19, 1927. Serial No. 22,089. Term of patent 14 years.



The ornamental design for a plate for vehicle bumpers, substantially as shown.

77,158. TOY BANK. ISIDOR SANFORD KRONOWIT, New York, N. Y. Filed June 16, 1928. Serial No. 27,160. Term of patent 7 years.



The ornamental design for a toy bank as shown.

77,159. SET OF PLAYING CARDS. OTTO KUBATZKY, Tulsa, Okla., assignor to O. K. Playing Card Company, Tulsa, Okla., a Corporation of Delaware. Filed July 21, 1927. Serial No. 22,823. Term of patent 14 years.



The ornamental design for a set of playing cards, as shown.

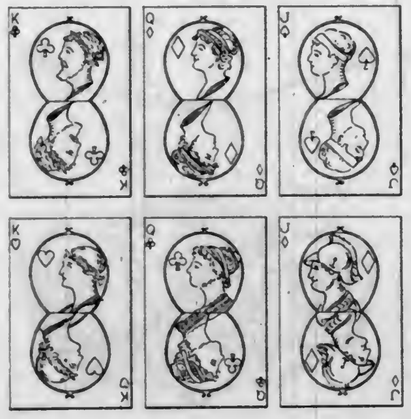
77,160. SET OF PLAYING CARDS. OTTO KUBATZKY, Tulsa, Okla., assignor to O. K. Playing Card Company, Tulsa, Okla., a Corporation of Delaware. Filed July 21, 1927. Serial No. 22,824. Term of patent 3½ years.



The ornamental design for a set of playing cards, as shown.

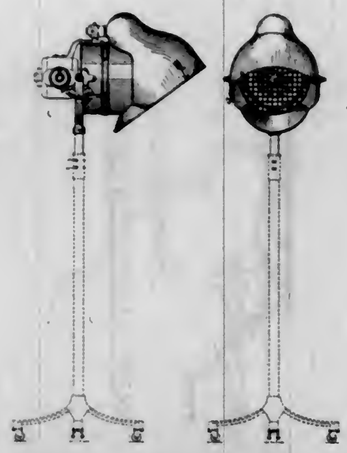


77,161. SET OF PLAYING CARDS. OTTO KUBATZKY, Tulsa, Okla., assignor to O. K. Playing Card Company, Tulsa, Okla., a Corporation of Delaware. Filed July 21, 1927. Serial No. 22,825. Term of patent 7 years.



The ornamental design for a set of playing cards, as shown.

77,162. ELECTRIC HAIR DRIER. HENRI G. LEVY, San Francisco, Calif., assignor to The Electric Manufacturing Company, San Francisco, Calif., a Copartnership consisting of Henri G. Levy and Mons Abramson. Filed Jan. 17, 1928. Serial No. 24,906. Term of patent 3½ years.



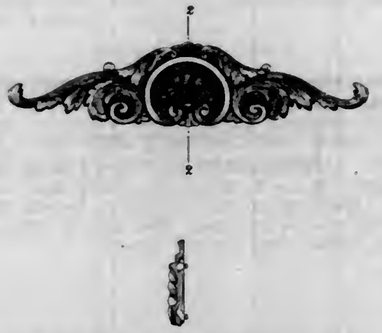
The ornamental design for an electric hair drier, as shown.

77,163. DRAPERY-POLE CENTER. GEORGE MELVIN LONG, Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,528. Term of patent 3½ years.



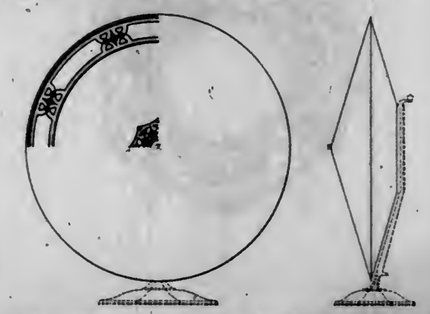
The ornamental design for a drapery pole center, as shown.

77,164. DRAPERY-POLE CENTER. GEORGE MELVIN LONG, Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed May 2, 1928. Serial No. 26,531. Term of patent 3½ years.



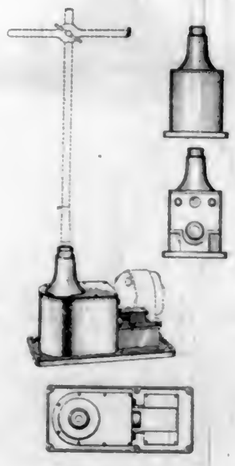
The ornamental design for a drapery pole center, as shown.

77,165. DIAPHRAGM FOR A LOUD SPEAKER. GEORGE R. LUM, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1927. Serial No. 24,347. Term of patent 7 years.



The ornamental design for a diaphragm for a loud speaker, as shown.

77,166. CASING FOR MECHANICAL EXERCISERS. FRANK E. MARCY, San Diego, Calif. Filed Oct. 20, 1927. Serial No. 23,822. Term of patent 7 years.



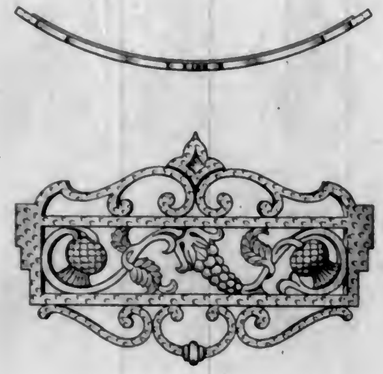
The ornamental design for a casing for mechanical exercisers, as shown.

77,167. LIGHTING-FIXTURE CANOPY RING OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,080. Term of patent 7 years.



The ornamental design for a lighting fixture canopy ring or the like, as shown.

77,168. LIGHTING-FIXTURE BAND OR SIMILAR ARTICLE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,081. Term of patent 7 years.



The ornamental design for a lighting fixture band or similar article, as shown.

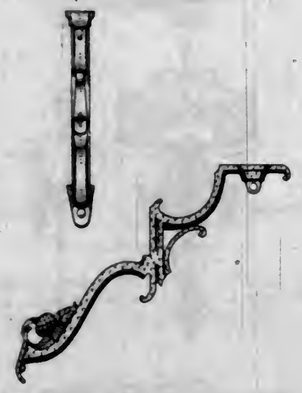
77,169. LIGHTING-FIXTURE ARM OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,082. Term of patent 7 years.



The ornamental design for a lighting fixture arm or the like, as shown.

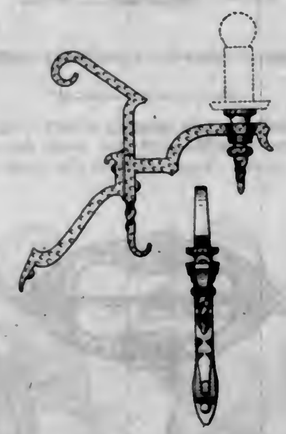


77,170. LIGHTING-FIXTURE ARM OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,083. Term of patent 7 years.



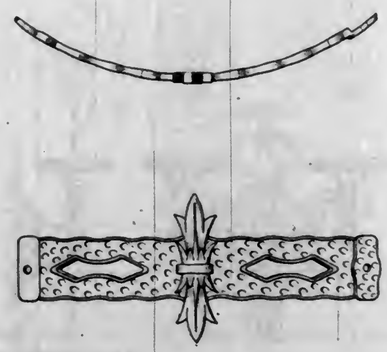
The ornamental design for a lighting fixture arm or the like, as shown.

77,171. LIGHTING-FIXTURE BRACKET OR SIMILAR ARTICLE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,084. Term of patent 7 years.



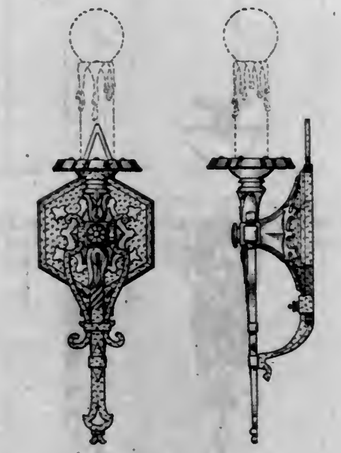
The ornamental design for a lighting fixture bracket or similar article, as shown.

77,172. LIGHTING-FIXTURE BAND OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,085. Term of patent 7 years.



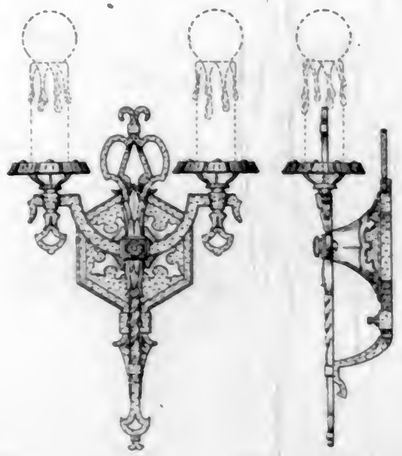
The ornamental design for a lighting fixture band or the like, as shown.

77,173. LIGHTING-FIXTURE WALL BRACKET OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,086. Term of patent 7 years.



The ornamental design for a lighting fixture wall bracket, as shown.

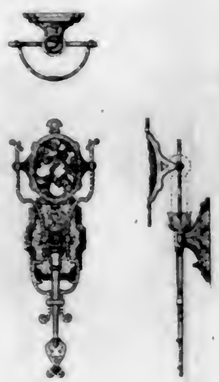
77,174. LIGHTING-FIXTURE WALL BRACKET OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,087. Term of patent 7 years.



The ornamental design for a lighting fixture wall bracket or the like, as shown.

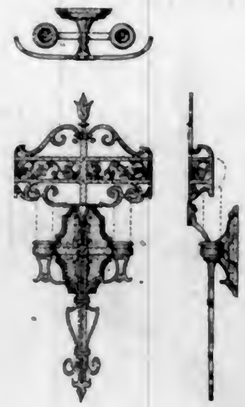
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77,175. LIGHTING-FIXTURE WALL BRACKET OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,088. Term of patent 7 years.



The ornamental design for a lighting fixture wall bracket or the like, as shown.

77,176. LIGHTING-FIXTURE WALL BRACKET OR THE LIKE. GLENN E. MCFADDEN, Detroit, Mich., assignor to Lincoln Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 8, 1928. Serial No. 28,089. Term of patent 7 years.



The ornamental design for a lighting fixture wall bracket or the like, as shown.

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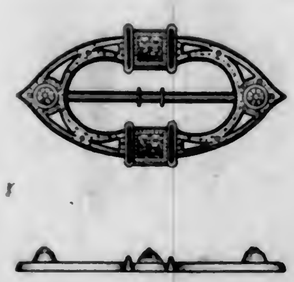
77,177. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Oct. 8, 1928. Serial No. 28,394. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.

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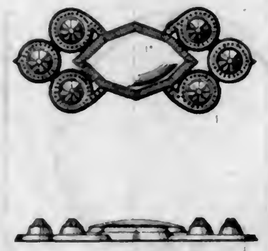
77,178. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Oct. 10, 1928. Serial No. 28,423. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.



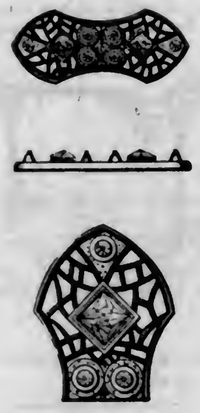
77,179. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Oct. 19, 1928. Serial No. 28,573. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.

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77,180. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Oct. 20, 1928. Serial No. 28,582. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.

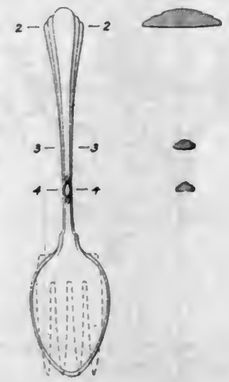
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77,181. DOLL. GRACE S. MORAHAN, Sag Harbor, N. Y. Filed June 28, 1928. Serial No. 27,312. Term of patent 3½ years.



The ornamental design for a doll, as shown.

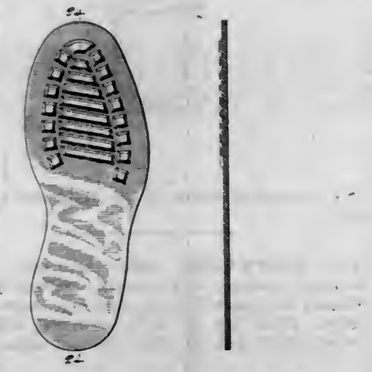
77,182. SPOON OR ANALOGOUS ARTICLE. HAROLD E. NOCK, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a Corporation of Massachusetts. Filed Aug. 2, 1928. Serial No. 27,668. Term of patent 14 years.




The ornamental design for a spoon or analogous article, substantially as shown.

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77,183. SHOE SOLE. LAURENCE M. OAKLEY, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Sept. 13, 1928. Serial No. 28,132. Term of patent 14 years.



The ornamental design for a shoe sole as shown.

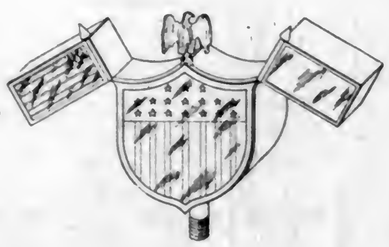
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77,184. RADIATOR-CAP ORNAMENT. WALTER E. OTWELL, Linn, Kans. Filed Sept. 20, 1928. Serial No. 28,221. Term of patent 7 years.



The ornamental design for a radiator cap ornament as shown.

77,185. AUTOMOBILE RADIATOR ORNAMENT OR SIMILAR ARTICLE. VITO RIZZI, Windsor Locks, Conn. Filed Apr. 19, 1928. Serial No. 26,387. Term of patent 3½ years.



The ornamental design for an automobile radiator ornament or similar article as shown.

77,186. INDIVIDUAL COFFEEPOT. CATHERINE VERONICA RYAN, Quincy, Ill. Filed Mar. 28, 1928. Serial No. 26,042. Term of patent 7 years.



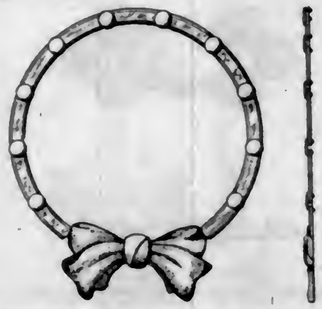
The ornamental design for an individual coffeepot, as shown.

77,187. BABY'S SHOE. BENNO SCHUBART, Nuremberg, Germany, assignor to Vereinigte Schuhfabriken Bemels-Wessels Aktiengesellschaft, Augsburg, Oberhausen, Germany. Filed July 21, 1928, Serial No. 27,557, and in Great Britain Mar. 29, 1928. Term of patent 3½ years.



The ornamental design for a baby's shoe as shown.

77,188. NECKLACE OR SIMILAR ARTICLE. EMIL ARTHUR SCHUELKE, Meriden, Conn., assignor to The Napier Co., Meriden, Conn., a Corporation of Connecticut. Filed Feb. 9, 1928. Serial No. 25,307. Term of patent 7 years.



The ornamental design for a necklace or similar article, as shown.

77,189. TABLE FOR RADIO RECEIVING SETS OR THE LIKE. FREDERICK SCHWARTZ, Brooklyn, N. Y., assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 29, 1928. Serial No. 27,327. Term of patent 7 years.



The ornamental design for a table for radio receiving sets or the like, as shown.

77,190. COMBINED CIGAR CUTTER, ASH TRAY, AND LIGHTER. KURT SJOESTROEM, Chicago, Ill. Filed Sept. 4, 1928. Serial No. 28,032. Term of patent 3½ years.



The ornamental design for a combined cigar cutter, ash-tray, and lighter as shown.



77,191. GOLF-CLUB HEAD. FRANK S. SMITH, Los Angeles, Calif. Filed Aug. 6, 1927. Serial No. 23,014. Term of patent 14 years.



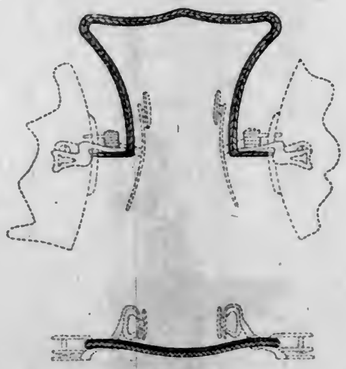
The ornamental design for a golf club head substantially as shown.

77,192. ICE PICK. NORMAN C. SMITH, Pittsburgh, Pa. Filed May 15, 1928. Serial No. 26,682. Term of patent 3½ years.



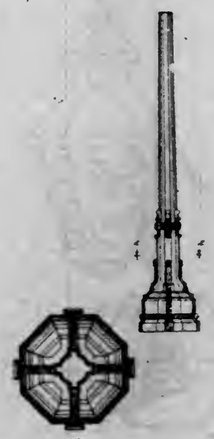
The ornamental design for an ice-pick, as shown.

77,193. OPHTHALMIC MOUNTING. FRANK A. UBEL, St. Paul, Minn. Filed July 14, 1928. Serial No. 27,483. Term of patent 14 years.



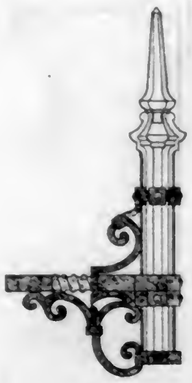
The ornamental design for an ophthalmic mounting as shown.

77,194. LIGHTING POST. WESTERN UNDERWOOD, Los Angeles, Calif., assignor to La Lux Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 12, 1928. Serial No. 28,117. Term of patent 7 years.



The ornamental design for a lighting post, as shown.

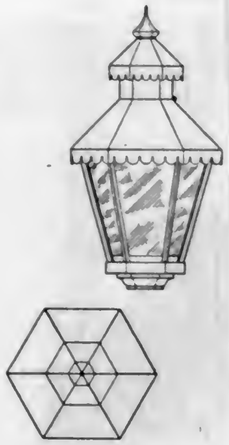
77,195. HEAD FOR LIGHTING POSTS. WESTERN UNDERWOOD, Los Angeles, Calif., assignor to La Lux Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 12, 1928. Serial No. 28,118. Term of patent 7 years.



The ornamental design for a head for lighting posts as shown.

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77,196. LANTERN FOR LIGHTING POSTS. WESTERN UNDERWOOD, Los Angeles, Calif., assignor of one-half to H. H. Walker, Los Angeles, Calif. Filed Sept. 12, 1928. Serial No. 28,119. Term of patent 7 years.



The ornamental design for a lantern for lighting posts, as shown.

77,197. ASH TRAY. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,165. Term of patent 14 years.



The ornamental design for an ash tray.

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77,198. ASH RECEIVER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,166. Term of patent 7 years.



The ornamental design for an ash receiver as shown.

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77,199. CIGARETTE CONTAINER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,167. Term of patent 3½ years.



The ornamental design for a cigarette container as shown.



77,200. ASH TRAY. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,168. Term of patent 3½ years.



The ornamental design for an ash tray as shown.

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77,201. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,169. Term of patent 7 years.



The ornamental design for a lamp as shown.

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77,202. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,170. Term of patent 7 years.



The ornamental design for a lamp as shown.

77,203. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,192. Term of patent 7 years.



The ornamental design for a lamp as shown.

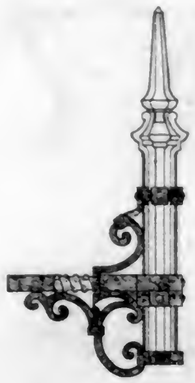
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77,204. ASH RECEIVER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,193. Term of patent 7 years.



The ornamental design for an ash receiver as shown.

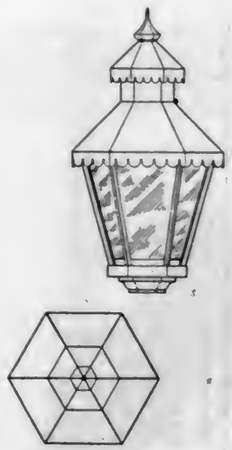
77,195. HEAD FOR LIGHTING POSTS. WESTERN UNDERWOOD, Los Angeles, Calif., assignor to La Lux Manufacturing Company, Los Angeles, Calif., a Corporation of California. Filed Sept. 12, 1928. Serial No. 28,118. Term of patent 7 years.



The ornamental design for a head for lighting posts as shown.

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77,196. LANTERN FOR LIGHTING POSTS. WESTERN UNDERWOOD, Los Angeles, Calif., assignor of one-half to H. H. Walker, Los Angeles, Calif. Filed Sept. 12, 1928. Serial No. 28,119. Term of patent 7 years.



The ornamental design for a lantern for lighting posts, as shown.

77,197. ASH TRAY. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,165. Term of patent 14 years.



The ornamental design for an ash tray.

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77,198. ASH RECEIVER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,166. Term of patent 7 years.



The ornamental design for an ash receiver as shown.

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77,199. CIGARETTE CONTAINER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,167. Term of patent 3½ years.



The ornamental design for a cigarette container as shown.



77,200. ASH TRAY. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,168. Term of patent 3½ years.



The ornamental design for an ash tray as shown.

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77,201. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,169. Term of patent 7 years.



The ornamental design for a lamp as shown.

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77,202. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 15, 1928. Serial No. 28,170. Term of patent 7 years.



The ornamental design for a lamp as shown.

77,203. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,192. Term of patent 7 years.



The ornamental design for a lamp as shown.

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77,204. ASH RECEIVER. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 18, 1928. Serial No. 28,193. Term of patent 7 years.



The ornamental design for an ash receiver as shown.

77,205. SMOKING STAND. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 19, 1928. Serial No. 28,201. Term of patent 3½ years.



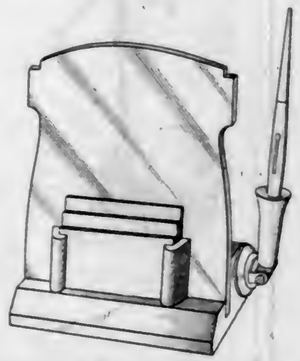
The ornamental design for a smoking stand as shown.

77,206. LAMP. ARTHUR VON FRANKENBERG, New York, N. Y., assignor to Frankart, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 22, 1928. Serial No. 28,241. Term of patent 7 years.



The ornamental design for a lamp as shown.

77,207. DESK SET. HERMAN WALDMAN, Chicago, Ill. Filed Aug. 30, 1928. Serial No. 27,987. Term of patent 3½ years.



The ornamental design for a desk set as shown.

77,208. HUSK FOR LIGHTING FIXTURES. LESTER R. WELLMAN, Chicago, Ill., assignor to Friedley-Voshardt Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1928. Serial No. 28,115. Term of patent 3½ years.



The ornamental design for a husk for lighting fixtures, as shown.

77,209. HUSK FOR LIGHTING FIXTURES. LESTER R. WELLMAN, Chicago, Ill., assignor to Friedley-Voshardt Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 12, 1928. Serial No. 28,116. Term of patent 3½ years.



The ornamental design for a husk for lighting fixtures, as shown.



77,210. RADIOCABINET. EVERETT WORTHINGTON, Chicago, Ill., assignor to Brandes Laboratories, Inc., Newark, N. J., a Corporation of New Jersey. Filed June 15, 1928. Serial No. 27,142. Term of patent 14 years.



The ornamental design for a radiocabinet as shown.

77,211. RADIOCABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc., a Corporation of New York. Filed July 16, 1927. Serial No. 22,770. Term of patent 7 years.



The ornamental design for a radiocabinet, substantially as shown.

77,212. ELASTIC FABRIC. FREDERICK J. ZIMMERER, Jr., Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a Corporation of Connecticut. Filed Nov. 20, 1926. Serial No. 19,799. Term of patent 14 years.



The ornamental design for an elastic fabric, as shown and described.

# PATENTS

## GRANTED DECEMBER 11, 1928.

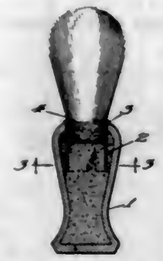
1,694,364. SHAVING BRUSH. ANDREW ALBRIGHT, 3d, Maplewood, N. J. Filed May 23, 1927. Serial No. 193,696. 2 Claims. (Cl. 15—192.)



1. A shaving brush having two sections of bristles, the middle section constituting the core having a cup-like depression therein to receive and retain lather or other shaving material, and the other section constituting a casing surrounding said core being constructed of bristles of relatively soft character, said brush being characterized by the capability of the stiff bristles constituting the core to work the lather into the beard simultaneously with the spreading and smoothing off of the lather by the relatively soft bristles constituting the casing.

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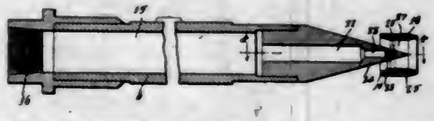
1,694,365. SHAVING BRUSH. ANDREW ALBRIGHT, 3d, Maplewood, N. J. Filed June 2, 1927. Serial No. 195,889. 2 Claims. (Cl. 15—193.)



1. A shaving brush comprising a hollow one piece handle, a ferrule having secured therein a knot of bristles, curved tongues formed on said ferrule, and a cementitious filler in the hollow handle forming an interlocking bond with said tongues.

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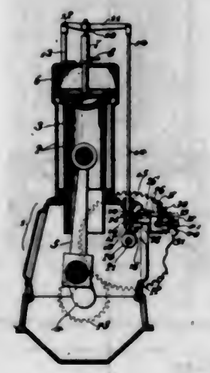
1,694,366. LIQUID-FUEL BURNER. CECIL H. BALMAT, San Francisco, Calif., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif., a Corporation of Delaware. Filed Mar. 22, 1926. Serial No. 96,523. 5 Claims. (Cl. 158—78.)



1. In an oil burner, the combination of an outer nozzle for conducting an air blast and having a mouth at its forward end through which the air blast is delivered, an inner nozzle carried within the outer nozzle and having a fuel duct for the oil, said inner nozzle having a wedge shaped tip with a transverse fuel duct, for taking the fuel from the first named fuel duct, a delivery cap consisting of an inner annular shell encircling and attached to the said tip in said mouth, and an outer annular shell secured over the inner shell and co-operating with the same to form a substantially capillary space communicating with the transverse duct.

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1,694,367. FEED-CONTROL MEANS FOR INTERNAL-COMBUSTION ENGINES. JACK B. BARTOW, Darby, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J., a Corporation of New Jersey. Filed Sept. 13, 1927. Serial No. 219,199. 8 Claims. (Cl. 123—33.)

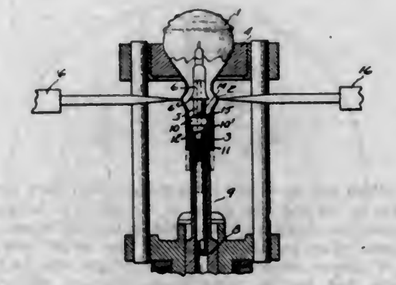


1. In fuel feed control means for internal combustion engines, the combination of lost motion actuating means for controlling and actuating the fuel feeding means, devices for varying and controlling the amount of lost motion in the said lost motion actuating means, means for withdrawing the said devices into positions to render the said actuating means inoperative, the outer ends of said devices having operative pivotal connection with the said means, and means for adjusting such pivotal connections in arcs of circles which, when the said devices have been withdrawn into inoperative position, are concentric with the axes about which turn the portions of said devices which are connected with said withdrawing means when the said connections are adjusted.

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1,694,368. METHOD OF MANUFACTURING ELECTRIC BULBS AND BULB BLANKS FOR USE THEREIN. CLYDE C. BONNER, Maplewood, N. J., assignor to Tung-Sol-Lamp Works, Newark, N. J., a Corporation of New Jersey. Filed Feb. 25, 1927. Serial No. 170,768. 7 Claims. (Cl. 49—78.)

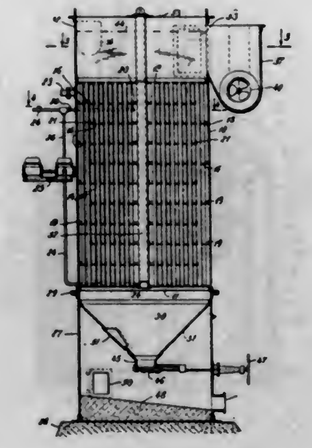
1. The method of manufacturing electric bulbs which consists in forming in the elongated neck of a bulb blank and in the plane of the seal and bulbous ring to cause a thinning of the glass walls thereat, assembling a mount within the bulb blank with the sealing flange of the mount disposed in the plane of the bulbous ring and then heating the latter to cause it to collapse upon and become



welded to the flange while the lower part of the neck causes a still further thinning of the glass walls in the plane of the seal by the stretching thereof.

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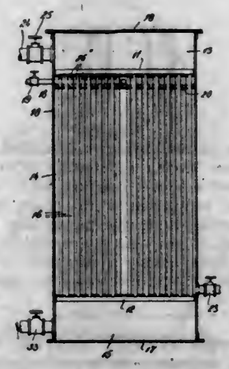
1,694,369. REFRIGERATING APPARATUS. CHARLES LALOR BURDICK, New York, N. Y., assignor to Guggenheim Brothers, New York, N. Y., a Copartnership. Filed June 18, 1925. Serial No. 37,924. 11 Claims. (Cl. 62—124.)



1. In a refrigerating apparatus, a vaporizing chamber for refrigerant, a plurality of conduits extending therethrough, means for passing liquid to be cooled through said conduits, a plurality of vertically spaced trays arranged within the vaporising chamber and having outlets for distributing liquid refrigerant to the surface of said conduits, said trays each having a discharge lip for excess liquid refrigerant, said lips being in staggered relation one to another so as to discharge the excess liquid refrigerant from one tray onto the next lower, and said trays acting as baffles for the vaporised refrigerant, means for supplying liquid refrigerant to an upper tray, and means for withdrawing the vaporised refrigerant from said chamber.



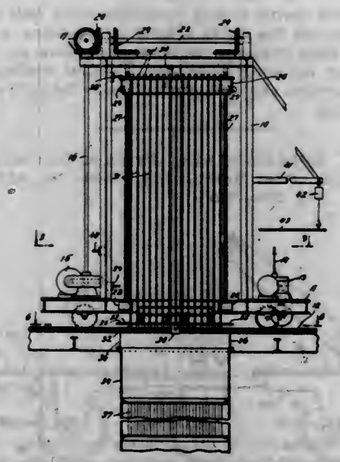
1,694,370. REFRIGERATING AND HEAT-INTERCHANGING APPARATUS. CHARLES LALOR BURDICK, New York, N. Y. Filed Nov. 21, 1925. Serial No. 70,512. 10 Claims. (Cl. 62—126)



1. In an apparatus for interchanging heat between two liquids, a plurality of tubes for separating said liquids having one end higher than the other so that liquid will flow through by gravity, means for discharging one of said liquids in an annular stream onto the exterior of each of said tubes, and means including an apertured cap fitted into the upper end of each of said tubes and supporting a cone-shaped member within the tube to receive liquid passing through the aperture in the cap and discharge it in an annular stream onto the interior surface of the tube.

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1,694,371. MULTIPLE-TUBE CLEANER. CHARLES LALOR BURDICK, New York, N. Y., assignor to Guggenheim Brothers, New York, N. Y., a Copartnership. Filed June 5, 1926. Serial No. 113,853. 7 Claims. (Cl. 15—104.05.)



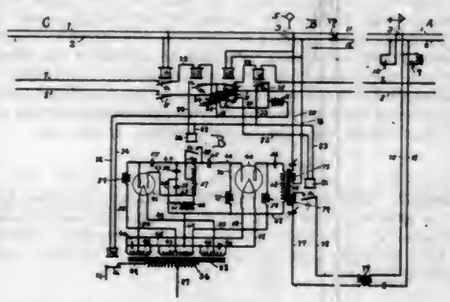
2. A multiple-tube cleaner comprising, a plurality of vertically disposed floating cleaners adapted to be individually actuated by their force of gravity, means for lowering said cleaners a predetermined distance and automatically returning them to their original position.

1,694,372. BOOM TRACK FOR BUCKET CONCRETE DISTRIBUTORS. JAMES E. BUSHNELL, North Plainfield, N. J., assignor to Ransome Concrete Machinery Company, Plainfield, N. J., a Corporation of New Jersey. Filed June 18, 1927. Serial No. 199,665. 3 Claims. (Cl. 104—107.)



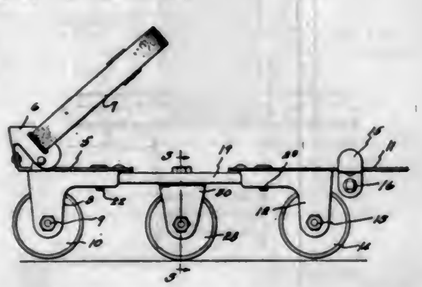
1. In a device of the character described, the combination with a boom having a laterally extending integral bottom flange and a bucket carriage with rollers adapted to travel thereon lengthwise of the boom, of a removable metallic strip having high wearing quality secured along the upper surface of the said flange and in close contact therewith, said strip having a plurality of wearing surfaces and capable of being reversed when one side is worn.

1,694,373. TRAIN-CONTROL SYSTEM. THOMAS E. CLARK, JAMES E. CLARK, and WILLIAM L. COOP, Detroit, Mich., assignors to Continuous Train Control Corporation, Detroit, Mich., a Corporation of Michigan. Filed Nov. 15, 1926. Serial No. 148,406. 8 Claims. (Cl. 246—41.)



3. A train control system comprising track rails divided into blocks and the blocks divided into sections, a generator for radio-frequency currents embodying an output transformer including a plurality of output windings, and wires connecting one of said windings to the rails of each block-section.

1,694,374. ROLLER SKATE. BYRON E. COLWELL, Addison, Mich. Filed Mar. 2, 1926. Serial No. 91,799. 3 Claims. (Cl. 208—175.)



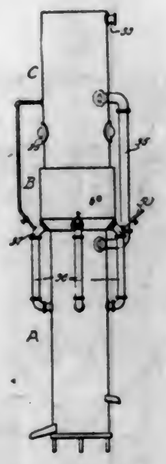
1. A roller skate comprising a heel portion carrying a roller, a toe portion carrying a roller, and a central portion carrying a roller, the heel and toe portions being adjustably secured by the same connecting member to the central portion.

1,694,375. BILLIARD-CUE-TIP HOLDER. COSMAS DARMIS, Philadelphia, Pa., assignor to American World Cue Tip Holder Co., Philadelphia, Pa. Filed Dec. 1, 1926. Serial No. 151,873. 1 Claim. (Cl. 273—70.)



A billiard cue tip holder comprising a body part having a socket in one end and a cup in the other, a diaphragm separating the socket and cup, a pin on the diaphragm, and chamfered edges on the cup; both the socket and cup being of greater diameter at the diaphragm than at their openings and having their walls tapering uniformly, whereby a tip forced into the cup and a cue forced into the socket will be allowed to expand at their inner ends and held against unintentional removal.

1,694,376. FURNACE FOR REDUCTION OF IRON. CHARLES M. DAY, Kirkwood, and CHARLES J. SCULLIN, St. Louis, Mo. Filed Apr. 19, 1926. Serial No. 102,880. 5 Claims. (Cl. 266—14.)

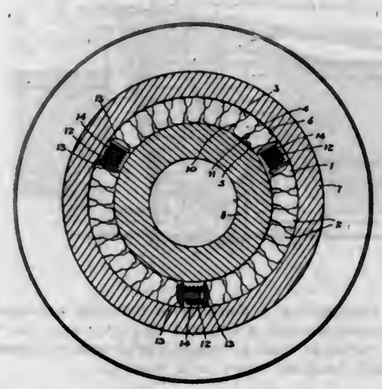


1. In a furnace for the reduction of metal, a charge chamber, a combustion chamber, a conduit joining said charge chamber to said combustion chamber, a tubular member mounted in said conduit, a nozzle directed into said tubular member, a pipe terminating in said nozzle and means for forcing air through said pipe and nozzle to create an injector action in said conduit.

1,694,377. FREE-WHEEL CLUTCH. DIMITRI SENSAUD DE LAVAUD, Paris, France. Filed Feb. 14, 1927, Serial No. 168,164, and in France Feb. 19, 1926. 6 Claims. (Cl. 192—41.)

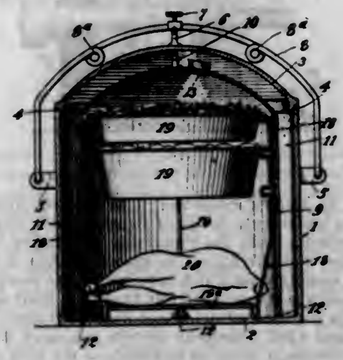
6. A free wheel clutch comprising driving and driven members having spaced cylindrical surfaces and clutch blocks having oppositely arranged eccentrically disposed clutch surfaces to engage the former surfaces and having pressure contact protuberances at opposite sides each





offset toward the point of greatest eccentricity of one of said clutch surfaces, and resilient means for forcing said blocks into pressure contact.

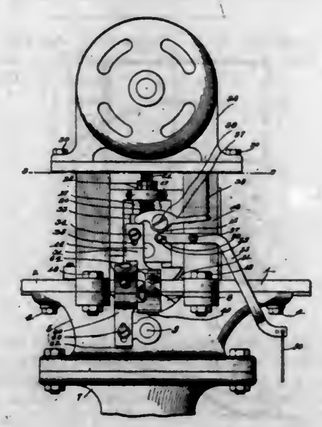
1,694,378. COOKING VESSEL. HENRY L. GOODWIN, New York, N. Y. Filed Jan. 31, 1927. Serial No. 164,717. 11 Claims. (Cl. 53—2.)



11. The method of cooking which comprises subjecting the material to be cooked to the action of steam in a container to drive out the air therefrom, and then utilizing the steam for insulating the walls of the container.

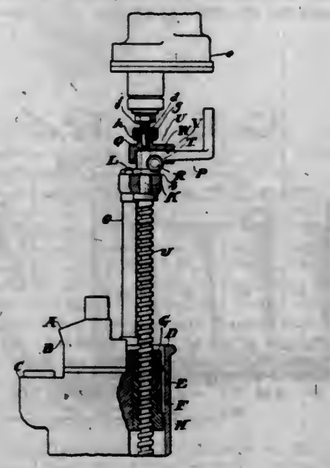
1,694,379. MACHINE FOR BEVELING THE EDGES OF LEATHER OR SIMILAR MATERIAL. GEORGE J. GORBUCH, Rochester, N. Y., assignor to Hickok Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 1, 1922. Serial No. 604,171. 15 Claims. (Cl. 67—17.)

1. A beveling machine comprising means for feeding the material, two flat pressure surfaces between which one edge of the material is passed, one of said surfaces being fixed in a line with the line of travel of the material and the other of said surfaces being yieldable relatively to such first named surface, and a beveling cutter for beveling an



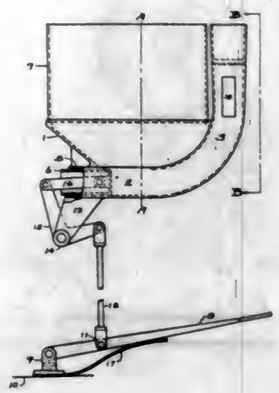
edge of the material secured in fixed relation to that pressure surface which is to cooperate with the face of the material to be beveled by such cutter.

1,694,380. CHUCK FOR CRANK HANDLES. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 5, 1927. Serial No. 224,164. 4 Claims. (Cl. 64—89.)



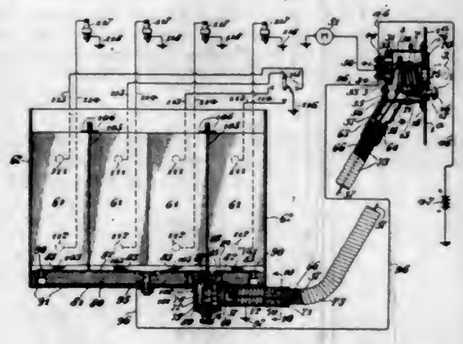
1. A chuck for crank handles, comprising a plate, means on the plate engaging portions of the crank handle, said means for permitting slidable placement of the chuck on, and slidable removal of the chuck from, the crank handle and for maintaining said plate in operative position on the crank handle, and means on the plate adapted to be connected to the chuck of a power device whereby the crank handle and the element normally actuated thereby are rotated.

1,694,381. APPARATUS FOR ELEVATING POPPED CORN AND DELIVERING IT. GEORGE H. HARTMAN, Cleveland, Ohio. Filed Dec. 20, 1922, Serial No. 608,114. Renewed May 10, 1928. 2 Claims. (Cl. 221—102.)



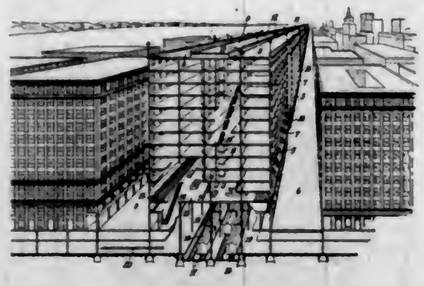
1. Apparatus for elevating successive charges of popped corn, consisting of a bent, upwardly extending tube, said tube having its side walls outwardly flaring so that the charges of corn when forced therein will remain in the varying levels to which they are forced.

1,694,382. LOCKING MEANS FOR AUTOMOBILES. WILSON HEMINGWAY, Jr., Melrose Park, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss., a Corporation of Mississippi. Filed Feb. 26, 1927. Serial No. 171,279. 13 Claims. (Cl. 175—361.)



1. Locking means for ignition mechanism, comprising, in combination, coils, a holder for said coils, a container for the said holder, locking means for protecting the said holder against removal from the said box, a switch for opening and closing the circuit of said ignition mechanism, an actuatable element for locking said switch in open position, and a connection between said locking element and said locking means whereby upon movement of said locking element into locking position the locking means is moved into locking position.

1,694,383. HIGHWAY BUILDINGS. JOHN K. HENCKEN, Brooklyn, N. Y. Filed Nov. 7, 1925. Serial No. 67,492. 5 Claims. (Cl. 104—27.)



1. In combination, a plurality of buildings arranged in an end-to-end relation, a roadway supported upon the tops of said buildings, and a transportation system arranged within said buildings below said roadway.

1,694,384. ELECTRICAL CONDENSER AND INDICATING MEANS. HENRY F. HERMAN, Chappaqua, N. Y., assignor to Straitline Radio Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 22, 1925. Serial No. 25,138. 6 Claims. (Cl. 175—41.5.)



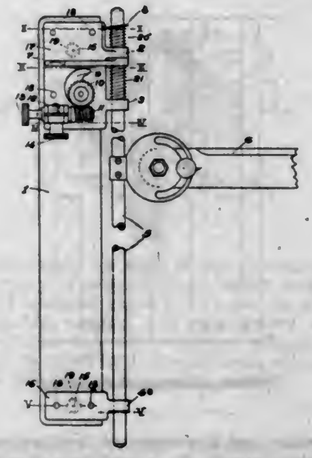
1. In an electric condenser, a pair of electrodes, each electrode including a series of flanged plates arranged in nested relation with the connecting portions in electrical connection and the flanges in spaced relation, a fixed dielectric support upon which one electrode is mounted with the plates in juxtaposed relation thereto, a shaft supported axially in the fixed electrode and support therefor to have rotary and axial movement therein and upon which the other electrode is mounted co-axially of the fixed electrode with the flanges thereof in opposed relation to the spaces between the flanges of said fixed electrode, and said second electrode being adapted to participate in the axial movement of the shaft to interengage the flanges thereof in the spaces between the plate flanges of the fixed electrode to increase and decrease the value of the inductance capacity of the condenser.

1,694,385. SECTION LINER. EDWARD R. INMAN, Franklin, Pa. Filed Nov. 21, 1925. Serial No. 70,566. 4 Claims. (Cl. 33—110.)

3. A section liner comprising a bed, a longitudinally movable rod carried by said bed, a ruler carried by said rod for movement therewith and an actuating lever for and carried by said rod; the combination with the foregoing of an infinitesimally-adjustable stop for said lever whereby its movements may be varied at will by infinitesimal degrees

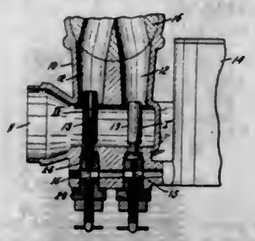


said stop comprising a cam-faced member pivotally carried by said bed with its cam-face arranged for contact by said lever, a worm wheel secured to said member for actuating



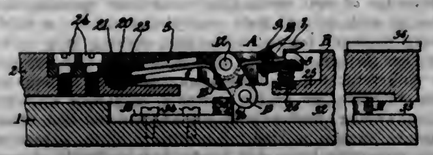
same, a worm revolubly carried by said bed in mesh with said wheel, and means for locking said worm against revolubility for the purpose set forth.

1,694,386. CARBURETOR. JOHN JUHASZ, New York, N. Y. Filed Jan. 7, 1924. Serial No. 684,765. 1 Claim. (Cl. 261—41.)



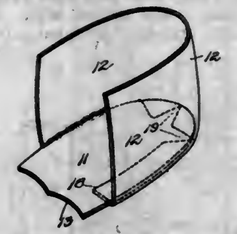
A carburetor including a plurality of independent carbureting chambers, a throttle for progressively bringing said carbureting chambers into service, and a suction controlled nozzle in each carbureting chamber, the lower ends of the bores of said nozzles being arranged at the same level and the said bores being of different lengths so as to discharge at different levels, the lengths of the bores increasing in the order in which said carbureting chambers are brought into and maintained in service during the opening movement of said throttle, said bores being unobstructed and each bore gradually decreasing in transverse cross-section from its upper end to its lower end.

1,694,387. BLANK FEEDING AND POSITIONING MECHANISM FOR CAN-BODY-MAKING MACHINES. PETER KRUSE, Brooklyn, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a Corporation of Delaware. Filed June 17, 1927. Serial No. 199,465. 19 Claims. (Cl. 113—8.)



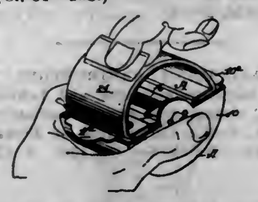
1. In a can body-making machine, a blank gripping device comprising a pair of jaws, a jaw-actuating member adapted to relatively move said jaws positively together, a feed member on which said jaws are mounted, and a part of said machine with respect to which said feed member moves, said part co-operating with said jaw-actuating member to effect a positive closure or gripping action of the jaws upon a predetermined movement of said feed member.

1,694,388. LINING FOR BOOTS AND SHOES. ALBERT E. MATHIEU, Natick, Mass. Filed Sept. 17, 1927. Serial No. 220,076. 3 Claims. (Cl. 36—55.)



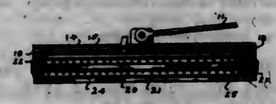
1. As a new article of manufacture a one-piece flat shoe lining blank of thin pliable sheet material of approximately uniform thickness throughout and comprising a base portion that is mainly heel-shaped and pliably conformable to the inside of the heel portion of the sole of a shoe, and a wall portion in the form of a strip integrally joined at one side and near one end thereof to one side of said base portion so as to extend rearwardly from the latter, and bendable into an upstanding heel embracing position so as to extend around the back and along the opposite side of said base portion, said wall portion being pliably conformable to the inside of the heel portion of the upper of the shoe.

1,694,389. RAZOR STROP. MICHAEL W. MCARDLE, Chicago, Ill. Filed May 13, 1925. Serial No. 29,879. 10 Claims. (Cl. 51—198.)



1. A device for the purpose indicated comprising a casing consisting of two cylindrical segment members pivoted together at their common axis and relatively dimensioned for telescoping one within the other by rocking relatively to each other about said axis, the total of their angular extent being substantially 360°, whereby when rocked relatively to withdraw the lesser from the larger they constitute a substantially closed case; a strop mount within said case mounted for rocking movement about said axis, comprising a cylindrical segment of angular extent suitable for substantially spanning the opening of the case when the case members are telescoped one within the other, and means for locking the strop mount as to its pivotal movement at a position at which its said segment is exposed through the opening of the open case.

1,694,390. WINDSHIELD WIPER. ROBERT C. MCCOLLEY, Indianapolis, Ind. Filed Nov. 28, 1927. Serial No. 236,115. 6 Claims. (Cl. 15—253.)

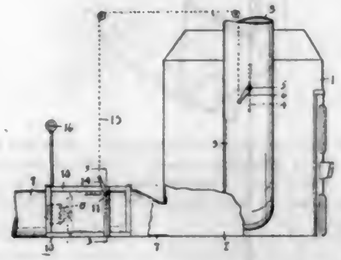


1. In a windshield wiper, a movable bar, an electrical heating element carried by the bar, a rotatable member housing the element and wipers between which the rotatable member rotates.

1,694,391. PREPARATION OF EDIBLE FATS. WHARTON B. MCLAUGHLIN, New York, N. Y.; Celia Brown McLaughlin administratrix of said Wharton B. McLaughlin, deceased. Filed Apr. 17, 1922. Serial No. 554,182. 2 Claims. (Cl. 99—11.)

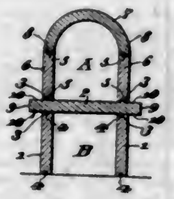
1. The method of producing chocolate in powder form which consists in spraying melted chocolate into a current of cold air.

1,694,392. AIR FEED FOR HOT-AIR FURNACES. EDWARD G. MILLER, Grand Rapids, Mich. Filed Oct. 12, 1927. Serial No. 225,669. 6 Claims. (Cl. 126—110.)



4. The combination with the air heating chamber of a hot air furnace, of a gravity feed air flue delivering to said chamber and provided with a damper, a force feed air flue delivering to said chamber, a blower for said force feed air flue, a plurality of vanes mounted on a rock shaft at an angle to each other within said forced air flue at the front of said blower, and an operating connection from the rock shaft to said damper.

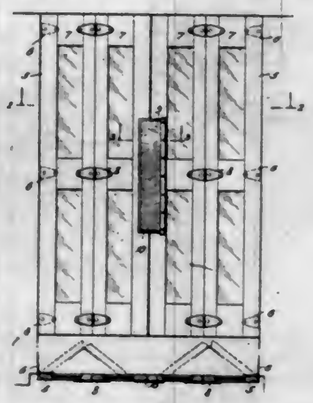
1,694,393. RADIATING COMBUSTION CHAMBER. ARTHUR E. NASH, Philadelphia, and JAMES S. ALCORN, Cynwyd, Pa., assignors to Alcorn Combustion Company, Philadelphia, Pa., a Corporation of Delaware. Filed Jan. 4, 1924. Serial No. 684,456. 8 Claims. (Cl. 110—86.)



1. Combustion chamber structure comprising refractory wall members, and a dividing wall member of silicon carbide disposed within and supported by said wall members and having a heat-radiating surface external to said chamber for lowering the temperature of the portion of said dividing wall member within the combustion chamber.

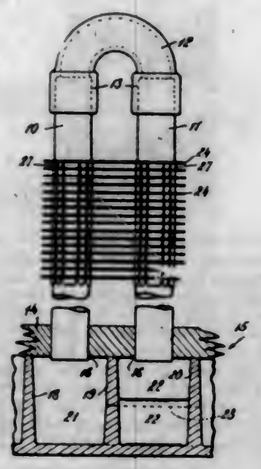
1,694,394. SAFETY DEVICE FOR DOORS. ARTHUR W. PARSONS, Miami, Fla. Filed Mar. 12, 1927. Serial No. 174,728. 2 Claims. (Cl. 20—16.)

1. In combination, a pair of movable doors cooperating at their edges, which when in their closed positions come into approximate contact with one another only at their top and bottom edge portions and at their intermediate edge portions are so widely out of contact with one another as to leave an opening between said intermediate



edge portions, and door-supported flexible means covering the opening between the intermediate edge portions of said doors when they are in their closed positions.

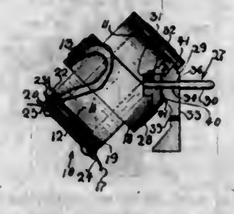
1,694,395. AIR COOLER. JOSEPH PRICE, West New Brighton, N. Y., assignor to The Griscom-Russell Company, New York, N. Y., a Corporation of Delaware. Filed June 16, 1923. Serial No. 645,735. 1 Claim. (Cl. 257—239.)



A heat exchanger of the class described including a passage for the gas being treated, a heat transferring unit comprising a plurality of fluid conveying elements extending into heat exchanging relation with the gas traversing the apparatus, said elements each comprising a pair of parallel tubes interconnected at one end of the element, a plurality of heat conducting vanes each spanning both tubes of each of said fluid conveying elements, a header having passages for delivering the working fluid in one direction through one tube of each element and collecting the fluid returning in the opposite direction through the other tube of each of the elements, said fluid conveying elements being identical with one another and each of said elements being supported independently of the others and being removable from said header independently of every other element.

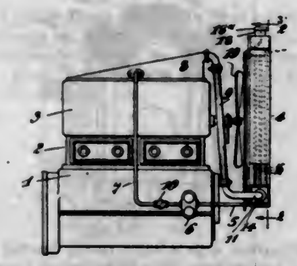


1,694,396. RADIO APPARATUS. PAUL H. ROOTH, Chicago, Ill. Filed June 15, 1927. Serial No. 198,880. 1 Claim. (Cl. 171—119.)



In a vario-coupler for radio circuits, a stationary primary winding, a winding rotatable within said primary winding and connected at one end to one end of said stationary primary winding, and a stationary secondary winding enclosing the said stationary primary winding and spaced therefrom and shielded from said rotatable winding by said stationary primary winding.

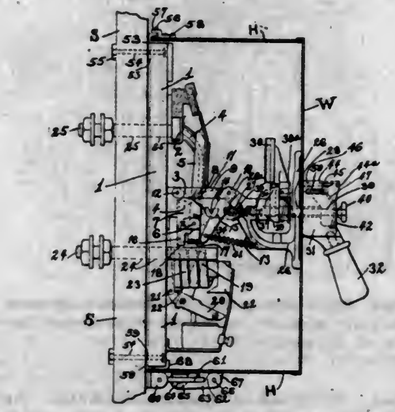
1,694,397. ENGINE-COOLING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Aug. 10, 1926. Serial No. 128,345. 24 Claims. (Cl. 123—174.)



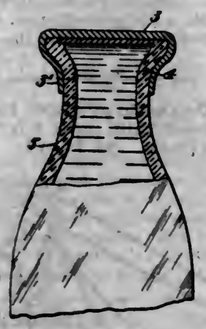
1. An internal combustion engine having a water and steam cooling circuit of inadequate radiating capacity, serially including a force feed pump supplying water to the jacket of the engine, an outlet discharging hot water and steam from the jacket into the lower chamber of an air cooled radiator of the upright type having a multiplicity of small diameter cooling passages of great radiating capacity connecting a lower chamber of small radiating capacity with an upper chamber which has a high level overflow outlet, and in combination with said parts, means for maintaining a thermo-circulating body of water upflowing through some of said cooling passages and downward through others, said means including a discharge device having a multiplicity of outlets arranged to discharge warm water and then hot water and the steam from the engine in and distributed lengthwise along a region of said body of water that is below and in proximity to the lower ends of at least one-half of said passages.

1,694,398. SWITCHBOARD MOUNTING OF CIRCUIT-BREAKER UNITS. WILLIAM M. SCOTT, Treddyfrin Township, Chester County, Pa. Original application filed Aug. 2, 1923, Serial No. 655,196. Divided and this application filed Aug. 16, 1924. Serial No. 732,394. 3 Claims. (Cl. 200—168.)

2. The combination with a switchboard, of a circuit breaker unit comprising a base, automatic circuit breaker mechanism secured upon the front of said base, and a housing enclosing said circuit breaker mechanism, means securing said unit to said switchboard comprising means securing said base upon the front of said switchboard, a member disposed between said base and switchboard and secured by said base-securing means, said housing detachably engaging said member, and connecting studs extending from said circuit breaker mechanism to the rear of said switchboard.



1,694,399. WRAPPER FOR RECEPTACLES AND METHOD OF PREPARING THE SAME. HENRY PHILIP SHOPNECK, Dorchester, Mass. assignor to John J. Daly, West Newton, Mass. Filed Jan. 13, 1927. Serial No. 160,836. 2 Claims. (Cl. 215—38.)

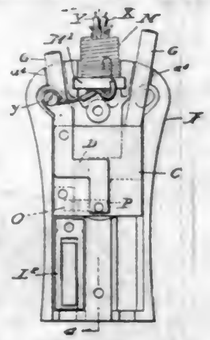


1. A bottle closure comprising a water laid felt containing short and long fibres felted together and impregnated with a thermo-plastic stiffener.

1,694,400. SOCKET AND SWITCH PLUG. ERNEST SJOLIN, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 11, 1922. Serial No. 528,893. 4 Claims. Cl. 200—51.)

3. A socket and switch plug comprising in combination with a casing composed of two identically formed members an insulating mounting block fixed in the casing; a socket carried on the mounting block having a contact for the switch; a two-stemmed T-lever fulcrumed on the block,

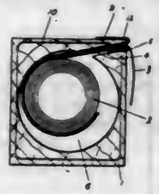
having step bearings at the end of its stem members, a yoke fulcrumed on the block below the fulcrum of the T-lever, a pivot member having a stem guided in the yoke



cross bar, and a spring reacting between said cross bar and the pivot member to stress the latter against the step bearings on the stem.

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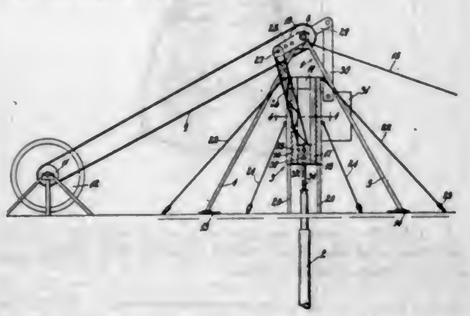
1,694,401. PHOTOGRAPHIC-FILM PACKAGE. BENJAMIN A. SLOCUM, Binghamton, N. Y., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a Corporation of New York. Filed Apr. 8, 1927. Serial No. 182,100. 1 Claim. (Cl. 242—71.)



A film package comprising a receptacle adapted to receive a coil of film, a film guide therein, and a wax coating on said guide whereby to reduce the friction on said film.

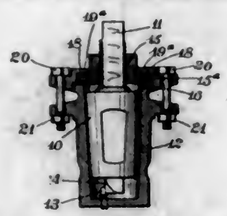
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1,694,402. LONG-STROKE PUMPING JACK. HUBERT J. SMITH, Long Beach, Calif. Filed July 14, 1926. Serial No. 122,279. 4 Claims. (Cl. 74—14.)



1. A long stroke pumping jack for wells having a pump and rod comprising a supporting frame, a drive shaft journaled on said frame, a cross head frame removably positioned adjacent the well and unattached to said supporting frame, a cross head reciprocally mounted in said cross head frame, means coupling said cross head to the well pump rod, means to rotate said shaft, a crank arm on said shaft, a connecting rod joining said crank arm and cross head, a second arm on said shaft, a pitman depending from said second arm and a counterweight secured to said pitman.

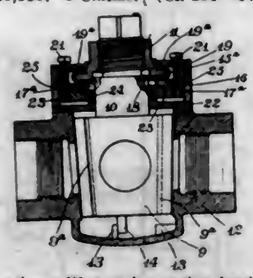
1,694,403. ADJUSTABLE-PLUG VALVE. CHARLES W. STEVENS, Columbus, Ohio. Filed Feb. 20, 1926. Serial No. 89,570. 1 Claim. (Cl. 251—97.)



In combination with a valve casing having a tapered valve seat, a rotary plug therein having a threaded stem, a cap for the casing having an inwardly standing lip, a nut on said stem having a flange extending under said lip and above the upper end of the casing, a washer engaged with the stem to turn therewith and extending around the rim and over both faces of the flange of the nut, said washer adapted to engage said lip of the cap when the plug is depressed to its seat by the stem, and to engage the upper end of the casing when the plug is raised by turning the nut.

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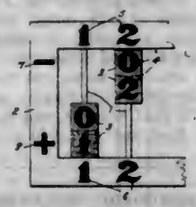
1,694,404. LUBRICATED ADJUSTABLE-PLUG VALVE. CHARLES W. STEVENS, Bexley, Ohio. Filed July 9, 1926. Serial No. 121,359. 3 Claims. (Cl. 251—97.)



1. In combination with a valve casing having a tapered valve seat, a rotary plug therein having a threaded stem and an exposed end whereby the plug may be turned, a flanged nut on said threaded stem, a washer carried by a flange of the nut, a teat on said washer engaging a recess in the stem, a cap on said casing affording a purchase for said flange when the nut is turned in one direction, the wall of the casing affording a purchase for said flange of the nut when the nut is turned in the opposite direction.

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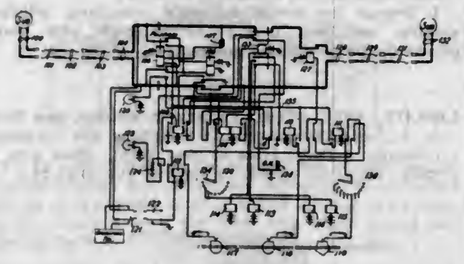
1,694,405. EDUCATIONAL APPLIANCE. NELLIE YORK TROIDL, Niagara Falls, N. Y. Filed July 22, 1926. Serial No. 124,236. 12 Claims. (Cl. 35—2.)



1. In an educational appliance, a rod, a plurality of multi-faced objects independently rotatable upon said rod upon a common central axis, the faces of said objects having characteristics by which they may be identified and distinguished and also bearing selected character representations, the characteristics of each face of an object having a selected relation to that of a face of each of the other objects, and the character representations upon those faces having the same characteristics, when brought into view by proper selective rotation of the objects, together indicating an educational exercise.



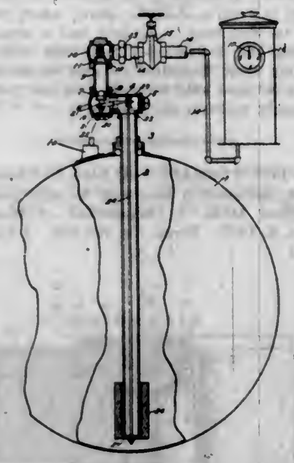
1,694,406. TELEPHONE-EXCHANGE SYSTEM. HENRY M. BASCOM, Brooklyn, and EMIL JACOBSEN, Plandome, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 13, 1927. Serial No. 191,165. 9 Claims. (Cl. 179—27.)



1. In a telephone system, subscribers' lines, automatic switches, means for transmitting a number of impulses, means responsive to a part of said impulses to partially operate said switches to extend a connection in the direction of a subscriber's line, an operator's position, means for storing the remainder of said impulses, and means controlled by the operator for releasing the stored impulses to further operate said switches to complete the connection.

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1,694,407. TANK-DISCHARGE-CONTROLLING MECHANISM. NELSON A. CARLSON, Erie, Pa., assignor to Erie Meter Systems, Inc., Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1927. Serial No. 211,177. 3 Claims. (Cl. 221—74.)

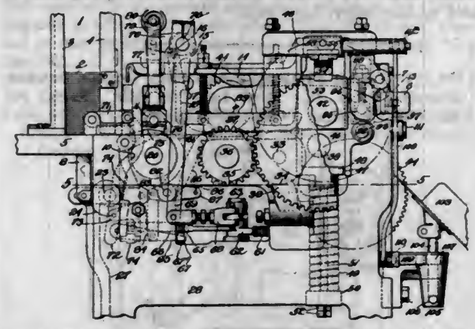


3. In a tank discharge controlling mechanism, the combination of a tank; a discharge conduit leading from the tank; and means closing the conduit at a pre-determined level of liquid in the tank comprising a float, a valve in the conduit outside of the tank, and devices communicating through the conduit the movement of the float to the valve.

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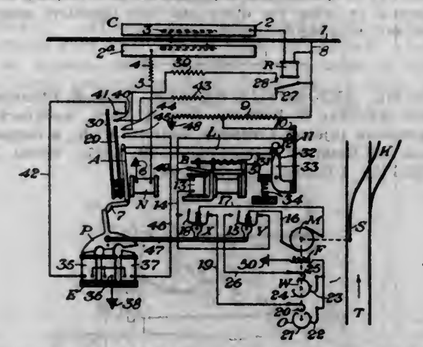
1,694,408. GRADING AND DISTRIBUTING MACHINE. LEANDER A. COGSWELL, Manchester, N. H., assignor to Lacene Manufacturing Company, Manchester, N. H., a Corporation of Maine. Filed Mar. 31, 1924. Serial No. 703,091. Renewed Mar. 7, 1928. 10 Claims. (Cl. 209—88.)

1. A machine of the class described comprising grade detecting mechanism for detecting the grade of successive blanks of stock according to thickness, a movable distributor for delivering the blanks into different position corresponding to their respective grades, setting mechanism including a transverse slide bar responsive to the detecting mechanism, distributor actuating mechanism connecting the slide bar and the distributor for adjusting the distributor in accordance with the adjustment of the slide bar, said distributor actuating mechanism including a yielding, centralizing spring member.



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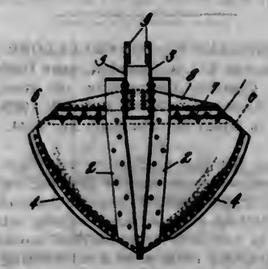
1,694,409. CAR-OPERATED SWITCHING MECHANISM. PAUL H. CRAGO, Forest Hills Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 140,029. 13 Claims. (Cl. 246—242.)



6. A car operated switching mechanism comprising, a two-part contactor in spaced relation to the conductor, a current selective relay connected to one part of the contactor and to the conductor, a two-position armature, and means controlled by the current selective relay for shifting the said armature from one position to the other when the two parts of the contactor are bridged.

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1,694,410. BLADE CONSTRUCTION. JOSEPH DAW, Quebec, Quebec, Canada, assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed May 18, 1927. Serial No. 192,265. 3 Claims. (Cl. 37—182.)

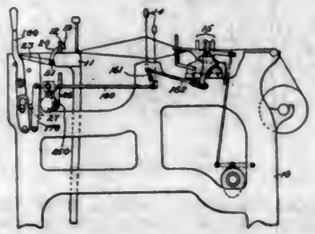


1. In combination, a blade shaped generally in the form of a triangular spherical sector, a reinforcing member

extending centrally of the blade from its toe portion to a point above its upper edge, a support extending inwardly at the upper edge of said blade, and a supporting arm whose outer end portion is fixed to said support and to said member above said edge.

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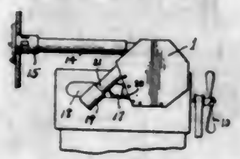
1,694,411. LOOM STOP MECHANISM. HONORE DEMERS, Manchester, N. H. Filed July 12, 1926. Serial No. 121,755. 1 Claim. (Cl. 139—342.)



In a loom, in combinantion, a shipper lever, a drop wire mechanism, a shipper rod, a reversing lever connecting said shipper rod to said drop wire mechanism, a lay, a shuttle box on the lay, a binder carried by said shuttle box, a binder finger engaging said binder, means including a dog depressed by said binder finger when a shuttle is in said shuttle box, a lug on said shipper rod, a bracket, a lever pivoted intermediate its ends to said bracket and positioned so that one end is engageable with said dog when depressed to bring the other end into operative engagement with said lug to stop the loom.

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1,694,412. AUTOMOBILE HEATER. PAUL E. DIEDERICH and MARSHAL G. ROBERTS, Detroit, Mich., assignors to American Injector Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 29, 1927. Serial No. 222,711. 1 Claim. (Cl. 257—241.)



A heater adapted to be attached to an internal combustion engine comprising a casing formed of parallel sides and a connecting plate extending between the edges thereof, a tubular loop within the casing, removable plates closing the space between the sides and engaging the ends of said loop to position it within the casing, an opening being left between the sides to admit air driven toward said opening by the fan of the engine, said loop being adapted to connect to the exhaust manifold and to the exhaust pipe of an internal combustion engine, and a conductor pipe connected to one of said sides and adapted to convey heated air from the casing.

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1,694,413. TREATMENT OF CELLULOSE ACETATE. GEORGE HOLLAND ELLIS, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Aug. 15, 1925, Serial No. 50,525, and in Great Britain Sept. 19, 1924. 31 Claims. (Cl. 8—5.)

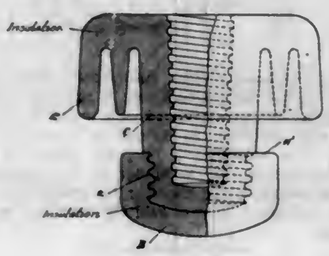
1. A process for the dyeing of materials comprising cellulose acetate which comprises treating said materials with relatively water insoluble organic compounds capable of coloring cellulose acetate, said organic compounds being employed in the form of solubilized modifications obtained by pretreating them with a solubilizing agent comprising a Twitchell reagent.

1,694,414. DYEING, PRINTING, OR STENCILING OF CELLULOSE ACETATE. GEORGE HOLLAND ELLIS, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Mar. 10, 1926, Serial No. 93,779, and in Great Britain Mar. 18, 1925. 18 Claims. (Cl. 8—5.)

1. Process for dyeing materials comprising cellulose acetate, comprising dyeing the materials with unsulphonated stilbene coloring compounds.

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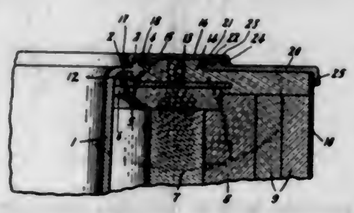
1,694,415. INSULATOR. CHESTER S. GORDON, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed July 1, 1925. Serial No. 40,894. 2 Claims. (Cl. 173—28.)




1. An insulator comprising a body of dielectric material having an internal screw threaded opening downwardly extending from the top into which a downwardly extending supporting pin may be screwed, a cap-like member of dielectric material arranged to be secured to the lower end of said body to form a shoulder above which the line conductor and tie wire may be secured, and a member extending outwardly and downwardly from said body to prevent moisture from being deposited on said shoulder, the shell of said body between said shoulder and said member being of substantially uniform thickness.

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1,694,416. POT FURNACE. ALBERT J. HANSON, Arlington, Mass., assignor to American Metallurgical Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1927. Serial No. 232,036. 4 Claims. (Cl. 263—14.)



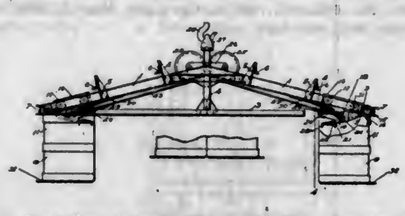
1. In combination, a furnace having a pot-receiving opening, a pot in said opening having an upper marginal portion extending outwardly in position to overlie a portion of said furnace, and an annular furnace plate engaging over said marginal portion and extending below its upper edge.

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1,694,417. FLOOR SCRAPER. EDWARD L. HARRINGTON, Erie, Pa., assignor to G. H. Williams Company, Erie, Pa., a Corporation of Pennsylvania. Filed Sept. 24, 1925. Serial No. 58,465. 12 Claims. (Cl. 37—183.)

1. In a floor scraper, the combination of a track frame; scraper blades opposingly faced and slidingly and rigidly mounted on the frame; hoisting means; and mechanism acting with the frame and hoisting means moving the scrapers toward and from each other.

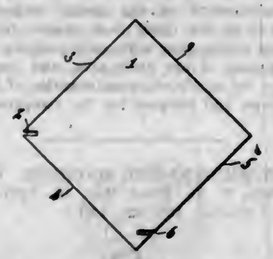




11. In a floor scraper, the combination of open bottom scraping blades; and mechanism actuated and controlled entirely from a single hoisting means hoisting and actuating the blades toward and from each other closing and opening the same for scraping material into a heap.

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1,694,418. ROOFING. OTTO A. HEPPES, La Grange, Ill., assignor to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 8, 1928. Serial No. 661,573. 12 Claims. (Cl. 108—8.)



1. A roofing element comprising a polygonal shaped piece of sheet material having an open-ended slot extending inwardly from the apex of one corner and a slot extending inwardly from one side.

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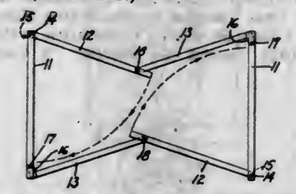
1,694,419. MEANS FOR CEMENTING WELLS. ARTHUR HAROLD HOBART, Honolulu, Territory of Hawaii. Filed Dec. 14, 1926. Serial No. 154,750. 1 Claim. (Cl. 194—69.)



In a device for cementing wells, comprising a supporting rod, a cylindrical anchor member suspended from said rod by loose jointed connections and adapted to be positioned on the bottom of the well, a tubular member surrounding said rod adapted to contain cementitious material and supported on said anchor member, a ball member attached to said tubular member recessed to engage the rod therein, a latch pawl pivoted in said rod adapted to pass the ball member on a downward movement of the rod and to engage the ball member in its upward movement whereby the tubular member is lifted and spaced apart from the anchor member in the withdrawal movement of the apparatus from the well.

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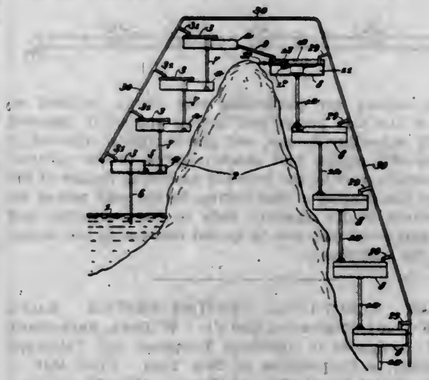
1,694,420. FOLDING BED. HARRY A. JOSELOWITZ, Minneapolis, Minn. Filed June 1, 1925. Serial No. 34,043. 4 Claims. (Cl. 5—112.)



1. A folding bed frame formed from angle-iron material including a pair of end rails having their concave sides facing inwardly and downwardly, and side rail members pivotally connected to said end rails with their concave sides facing outwardly and downwardly, each side rail member composed of two sections nested and overlapped at their inner ends and pivotally connected together, one section of each side rail having a right angular terminal extension terminally pivoted beneath respective end rails.

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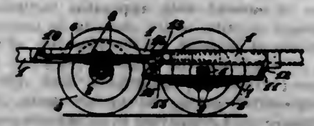
1,694,421. AUTOMATICALLY-OPERATING MECHANISM FOR ELEVATING LIQUIDS. REA D. LENTZ, Los Angeles, Calif., assignor of one-fourth to Ralph Mitchell, Los Angeles, Calif. Filed Jan. 12, 1927. Serial No. 160,593. 16 Claims. (Cl. 103—236.)



1. In a device of the class described, a series of superimposed, interconnected receptacles, means utilizing a vacuum to successively transfer a liquid from a low level through each of said receptacles to a higher level, and means utilizing liquid thus elevated for producing said vacuum.

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1,694,422. SPRING SUSPENSION FOR LORRIES. MARCEL LEYTENS, Antwerp, Belgium. Filed Mar. 24, 1927, Serial No. 178,091, and in Belgium Apr. 28, 1926. 2 Claims. (Cl. 280—104.)



1. In spring-suspension for lorries having near the driving axle a supplementary axle provided with wheels, the

suspension blade-springs of both axles being mounted in the same vertical plane, the adjacent ends of said blade-springs being pivotally connected to a swivelling two-armed lever mounted on an axis fastened to the lorry-frame, the arrangement whereby the said adjacent blade-springs of both driving and supplementary axles overlap with their adjacent ends, said adjacent ends being pivotally connected to the swivelling lever, say one end above and the other beneath the swivelling axis of said lever, substantially as described.

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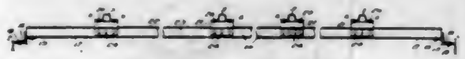
1,694,423. CRUSHING MACHINE. WILLIAM K. LIGGETT, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 8, 1923. Serial No. 644,168. 9 Claims. (Cl. 83—11.)



1. In a machine of the class described, a rotary support, radially disposed crushing elements spaced axially from one another and removably mounted on said support, and a plurality of circumferentially disposed fastening means to rigidly secure each of said crushing elements to said support.

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1,694,424. RAILWAY CAR. EDWARD H. MATTINGLEY, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 27, 1926. Serial No. 157,227. 3 Claims. (Cl. 105—355.)



1. A railway car comprising side plates, carlines secured to the side plates and having oppositely disposed laterally extending flanges, end plates rigidly attached to the said side plates, roof sheets secured to the carlines, and means carried by the laterally extending flanges of the carlines constituting a load lifting device, said means being secured at its opposite ends to the respective end plates and being disposed in spaced relation to the underside of the roof sheets.

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1,694,425. ELECTRICAL TESTING SYSTEM. RALPH G. MCCURDY, Englewood, and PAUL W. BLYE, Rutherford, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Mar. 1, 1926. Serial No. 91,650. 14 Claims. (Cl. 179—175.)



1. The method of studying the characteristics of a complex source of current with apparatus including a plurality of tuned circuits, which consists in impressing the complex source of currents on the plurality of tuned circuits each of which may be adjusted from one frequency to a different frequency, amplifying each different frequency, progressively noting the characteristics of each different frequency, and comparing these characteristics with the predetermined characteristics of currents from a known source.

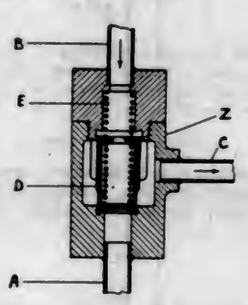
1,694,426. OPERATING JACK FOR DOUBLE-HOOKED NEEDLES IN KNITTING MACHINES. ADOLF MAX MÜLLER, Chemnitz, Germany. Filed May 31, 1927, Serial No. 195,481, and in Germany June 3, 1926. 1 Claim. (Cl. 66—14.)



In a device of the kind described in combination, a draft jack and a pushing jack, slidingly longitudinally and displaceably engaging each other and conjointly constituting a two part operating jack, an apertured portion, and a projecting portion, respectively disposed on said jacks, and engageable with play with each other, and for axial relative displacement of the jacks, stopping and impinging means on the draft jack, spaced from the pushing jack, and engageable with said pushing jack after a certain movement of the draft jack, and coacting retaining means at the confronting extremities of the two complemental jacks, and adapted for the reception of a needle hook.

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1,694,427. REFRIGERATING MACHINE. HOLGER NIELSEN, Buffalo, N. Y. Filed Mar. 19, 1927. Serial No. 176,775. 1 Claim. (Cl. 62—115.)




In a refrigerating apparatus a coupling member connecting three pipes, one leading to the suction side of a compressor, one leading to a low pressure evaporator and one leading to a high pressure evaporator, and valve means in said member for maintaining a predetermined pressure difference between the two evaporators, said means closing said pipe leading to the high pressure evaporator when the pressure difference between the two evaporators is less than said predetermined difference and closing the pipe leading to the low pressure evaporator when the difference in pressure in the two evaporators exceeds said predetermined difference, said suction pipe being in communication with one of said pipes leading to the evaporators when the other is closed by said valve means.

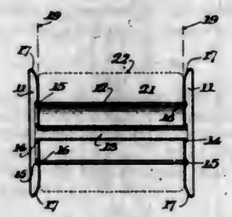
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1,694,428. MANUFACTURE OF BOBBINS, SPOOLS, OR THE LIKE. CHARLES WILFRED PALMER, Spondon, near Derby, England, assignor to Celanese Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Mar. 9, 1927. Serial No. 173,993. 1 Claim. (Cl. 242—118.)

An improved bobbin for yarns comprising in combination a metallic core, a second core made of a fibrous material



containing said metallic core, metallic flanges rigidly fastened to the ends of the metallic core, annular depressions in said flanges firmly holding the fibrous core in place, each of said flanges being of a single thickness and having a substantial part of the surface extending outwardly from



the fibrous core substantially at right angles to the axes of the cores, while the peripheral portions of said flanges flare outwardly, whereby a bobbin of light weight and substantial strength is obtained, which permits the ready winding or unwinding of yarn without the formation of soft spots.

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1,694,429. AUXILIARY DIALING TOOL. WARNER L. PEAK, Los Angeles, Calif., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 5, 1927. Serial No. 210,891. 2 Claims. (Cl. 179—90.)



1. A device for operating a telephone instrument having a dial, said dial including a movable circular plate with a series of openings about its surface, said device comprising a lower portion having a casing of sufficient flexibility to be inserted in said openings and sufficient elasticity to be retained by the edges of said openings, and an upper portion comprising a finger-piece in swivel engagement with the first mentioned portion for imparting therethrough a rotary movement to said circular plate.

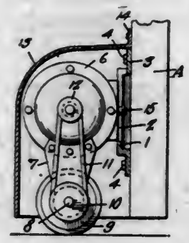
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1,694,430. TUBULAR BEND AND METHOD OF MAKING SAME. BERTWELL C. ROOT, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a Corporation of Maine. Filed Jan. 24, 1927. Serial No. 162,046. 17 Claims. (Cl. 154—8.)



1. A method of making bends from straight fiber tubes, which comprises forming a series of spaced, wedge-shaped cutouts in the wall of the tube, thereby leaving a series of sections of trapezoidal form; bending the tube until the adjacent ends of the sections substantially abut; and bonding together the abutting ends of the sections.

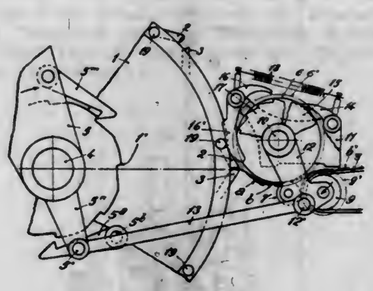
1,694,431. DOOR-OPERATING DEVICE. JOHN F. RUSSELL and HENRY E. RUFTY, Salisbury, N. C. Filed June 2, 1928. Serial No. 282,362. 4 Claims. (Cl. 268—65.)



1. A door opening and closing device comprising a slotted attaching plate adapted to be secured to a door adjacent its lower free edge, an electric motor, means carried by said motor and arranged for movement in the slots of the plate, and a friction roller carried by said motor and operated thereby for the purpose specified.

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1,694,432. DEVICE FOR DELIVERING THE TUFTS OF TEXTILE FIBERS FROM COMBING MACHINES HAVING INTERMITTENTLY-ROTATING NIPPER DRUMS. CARLO SCHLEIFER, Novara, Italy. Filed Nov. 28, 1927, Serial No. 236,254, and in Germany Dec. 6, 1926. 16 Claims. (Cl. 19—121.)



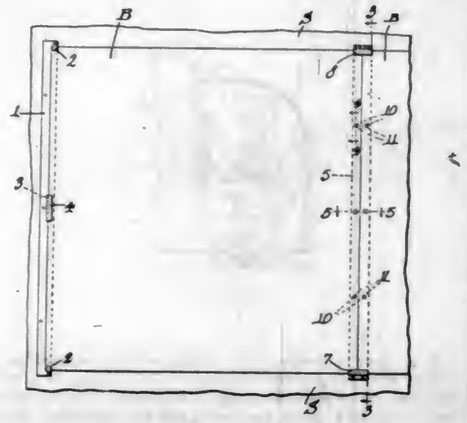
1. In a device of the character described, the combination with an intermittently rotating drum, and a series of nippers carried thereby, of a delivery cylinder, a feed cylinder, in parallel relation to the delivery cylinder, a carrier for the feed cylinder, means to rock the carrier about the axis of the delivery cylinder, and means operable by the movement of the carrier to rotate the feed cylinder.

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1,694,433. BLACKBOARD HANGER. GEORGE G. ALBERT, Bangor, Pa. Filed Nov. 11, 1927. Serial No. 232,657. 7 Claims. (Cl. 35—15.)

7. The combination with blackboards having meeting edges, of a strip back of said edges extending longitudinally thereof, said strip including an elongated piece of metal, a supporting hook adjacent one end thereof for engaging

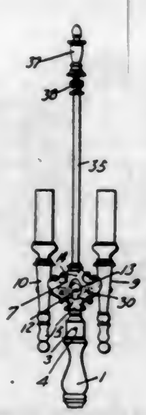
and supporting the lower edges of the blackboard, a clamp connected to the upper end of the strip for engaging and holding the upper edges of the blackboard, and means ad-



justably mounted on the strip for engaging the back faces of the blackboard to hold them against backward displacement relative to each other.

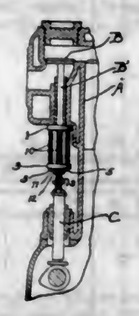
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1,694,434. STANDARD LAMP OF CANDELABRA TYPE. JACOB H. BAETZ, Kitchener, Ontario, Canada. Filed Feb. 17, 1928. Serial No. 255,065. 3 Claims. (Cl. 240—81.)



1. In a standard lamp of candelabra type, the combination with the lamp standard proper provided with an upwardly extending reduced portion, of an inverted cup fitting upon such reduced portion and suitably secured thereto and having a central internally threaded orifice in its upper or base portion, a nipple threaded into such orifice so as to project upwardly therefrom, a hollow body having upper and lower vertical orifices into the lower one of which the aforesaid nipple is adapted to be screwed, a pair of candle fixtures, means for securing a candle fixture at each side of the body, and a shade supporting standard extending upwardly from the body centrally between the candle fixtures.

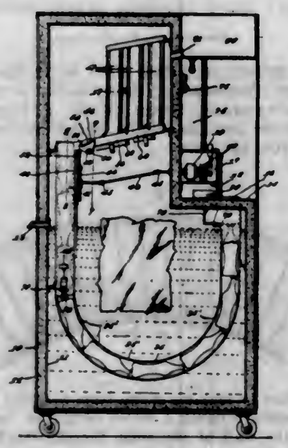
1,694,435. VALVE SPRING. ANDREW SEAMAN BARNEY, Sr., Flushing, N. Y. Filed Sept. 12, 1924. Serial No. 737,390. 1 Claim. (Cl. 123—188.)



In a valve spring construction for internal combustion engines the combination with an engine including a casing, a valve including a valve stem having a screw threaded end, means engageable with the screw threaded end for reciprocating the valve stem in the engine casing, an annular ring-shaped member slidable on the valve stem and having a central opening receiving the valve stem and being provided with opposed sets of transverse apertures at opposite sides of the valve stem, a nut adjustable on the screw threaded end of the stem for limiting the movement of the ring-shaped member, a second nut adjustable on the screw threaded end against the first mentioned nut to act as a lock nut, a second annular ring-shaped member having an opening therethrough larger than the opening of the first mentioned ring-shaped member and freely receiving therethrough the valve stem, said second member being adapted to abut directly against the engine casing without any portion of the engine casing obstructing the passageway thereof through which the valve stem freely extends, a plurality of spaced rods supported by the second member and extending parallel to the valve stem and snugly slidable through the sets of openings in the first mentioned ring-shaped member, and individual springs about said rods under compression between the first and second annular members.

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1,694,436. COOLING AND DISPENSING MACHINE. CHARLES F. BAUER, Louisville, Ky. Filed Jan. 17, 1927. Serial No. 161,616. 6 Claims. (Cl. 312—36.)

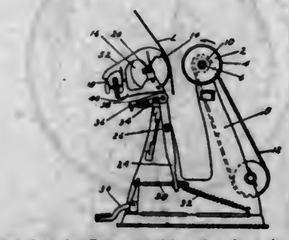


1. In a cooling and dispensing machine for bottled goods, a cabinet including a cooling chamber, a bottle dispensing tube arranged in said chamber and adapted to contain bottles in end to end relation, the outlet end of said tube passing through a wall of the cabinet, means for singly ejecting the bottles from said tube, and a normally closed pivoted cover for said tube and adapted to be opened by the bottle being projected, said cover being spaced an appreciable distance from the outlet end of said tube to prevent bottles being taken from the cabinet.



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1,694,437. LEATHER-WORKING MACHINE. OSKAR BÖTTGER, Frankfort-on-the-Main, Germany, assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Jan. 21, 1925, Serial No. 3,798, and in Germany Mar. 1, 1924. 6 Claims. (Cl. 149—14.)



1. A leather buffing machine having, in combination, a supporting frame, a buffing roll mounted therein, means for rotating said roll at relatively high speed, a swing frame pivoted in said supporting frame, a bed roll and a tension roll carried by the swing frame, an endless felt band supported by said bed and tension rolls, a protecting apron above said band, means whereby the bed and tension rolls may be relatively adjusted to vary the tension of the band, and means whereby the swing frame may be moved toward the buffing roll to present a piece of leather resting against said band to the action of the buffing roll.

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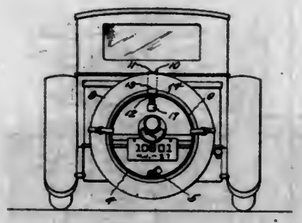
1,694,438. BEARING. NEIL M. CHINN, Perry, Okla., assignor of one-fourth to Robert H. Wilson and one-fourth to Theodora B. Wilson, Perry, Okla. Filed Oct. 26, 1925. Serial No. 65,025. 1 Claim. (Cl. 308—72.)



In combination, an elongated base having a centrally located opening, and including a relatively thick portion arranged concentric of said opening and constituting an upper bearing member, a lower bearing member arranged upon the base and having its upper edge secured to the first mentioned bearing member, a ball-like bearing arranged in said opening and operating between said bearing members, said members being designed to accommodate said ball-like bearing, said ball-like bearing having a central passage therethrough, a bushing arranged within the passage and having end flanges bearing against the ends thereof, said lower bearing member having a recess, and a pin projecting from the ball-like bearing and arranged in said recess to prevent the bearing from turning.



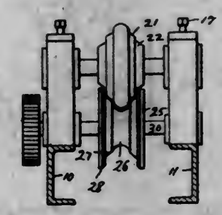
1,694,439. SPARE-TIRE CARRIER. AUGUSTUS M. FLYNT, Savannah, Ga. Filed Sept. 30, 1927. Serial No. 223,007. 2 Claims. (Cl. 224—29.)



1. The combination with a spare tire carrier and a rim-carried spare tire thereon, of a sigmoidal strap having one end hooked over said spare tire and its other end projecting rearwardly therefrom, a second rim-carried spare tire behind the first named tire, the rearwardly projecting end of said strap being hooked under the rim of said second spare tire, an inwardly turned hook on the extremity of said projecting end of the strap and engaged with the rearmost flange of the rim of said second spare tire to prevent disengagement of the rim of said second spare tire from the strap until the latter is unhooked from the first named spare tire, and common means for locking said strap on the first named spare tire and for locking the latter and its rim to said carrier.

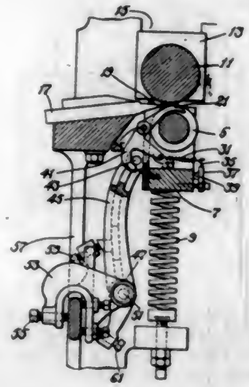
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1,694,440. RIDGE-CAP-FORMING MACHINE. JESSE FULENWIDER, HARRY FULENWIDER, EDWARD W. ROBINSON, and HARRY NORRIS, Savannah, Ga., assignors to Harry Fulenwider and Jesse Fulenwider, Savannah, Ga. Filed June 26, 1926. Serial No. 118,723. 3 Claims. (Cl. 153—3.)



1. In a ridge cap forming machine, a roll having a central circumferential convex portion and tapered portions of reduced diameter on each side of the convex portion, and a cooperating roll having its central circumferential portion grooved to form walls complementary to the convex surface of the other roll, the cooperating roll having outwardly flared walls extending from the circumferential groove, said flared walls each including portions inclined in approximately the same degree and annular portions intermediate of the inclined portions and extending in planes perpendicular to the axis of the rolls.

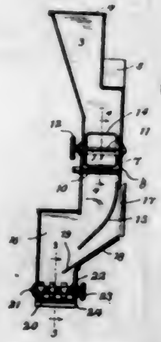
1,694,441. SPLITTING MACHINE. JOSEPH GOULDBOURN, BASIL POMEROY COOPER, and HAROLD ERNEST ELLIOTT, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 30, 1925, Serial No. 26,928, and in Great Britain May 21, 1924. 9 Claims. (Cl. 69—13.)



1. Splitting mechanism comprising a knife, cooperating rolls for feeding a blank to the knife and a series of yielding fingers movable in unison with one of the rolls and arranged to hold the blank against the other roll in the locality in which the splitting takes place.

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1,694,442. SEED-DUSTING APPARATUS. BENJAMIN F. GUSTAFSON, Redfield, S. Dak. Filed Sept. 16, 1926. Serial No. 135,862. 7 Claims. (Cl. 83—28.)

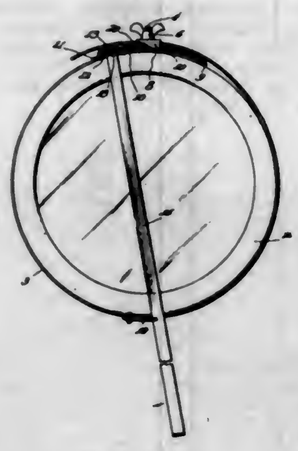


1. An apparatus for the purpose set forth comprising a hopper, a mixing chamber vertically below the hopper and in communication therewith and provided with a lateral inlet opening through which to receive seed to be treated, a screen between the hopper and said inlet opening, a stirrer cooperating with said screen, and a deflecting chute below the screen and in front of and extending over said inlet opening to direct the chemical from the screen onto the seed flowing through said opening below the chute.

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1,694,443. TOOL FOR REMOVING HEADLIGHT RIMS. WILLIAM H. GUTHRIE, Atlantic City, N. J. Filed Nov. 17, 1926. Serial No. 148,899. 1 Claim. (Cl. 81—64.)

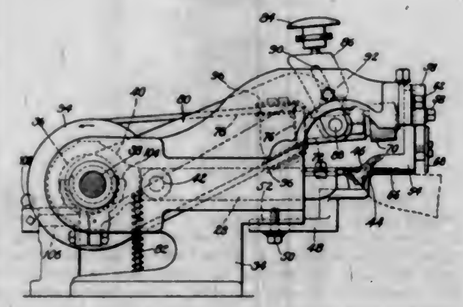
A headlight rim removing tool comprising a clamping band consisting of a strip of resilient material having a circular contour with its end portions overlapped, the outer end portion being slotted longitudinally and the inner end portion being bent back upon itself to form an elongated tongue cooperating with the body of the strip to provide inner and outer jaws, a pivot extending transversely between the jaws adjacent the free end of the tongue, fasteners passed through the jaws at opposite sides of the pivot, a threaded post passed through an opening in the tongue



close to adjacent fasteners for the pivot and having a flat base between the jaws, fasteners passed through the jaws at the other side of the base of said post and spaced well away from the joined ends of the jaws, the post being passed through the slot in the outer end of said band, a fastener threaded upon said post, an actuating lever carried by said pivot and extending across said band, and an abutment carried by the band and projecting transversely therefrom for engagement by said lever.

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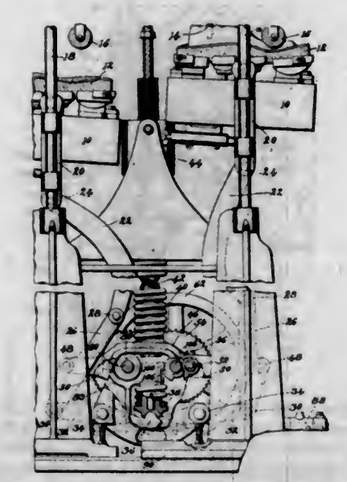
1,694,444. TRIMMING MACHINE. BERNHARDT JORGENSEN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 29, 1924. Serial No. 689,371. 20 Claims. (Cl. 12—83.5.)



1. A machine of the character described comprising a knife having a straight cutting edge for trimming surplus material from the bottom of a lasted shoe, mechanism for reciprocating said knife lengthwise of its cutting edge, and means for guiding the shoe relatively to said knife.



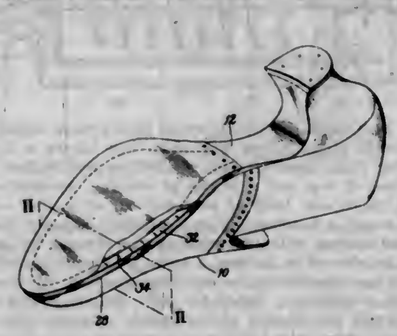
1,694,445. SOLE-PRESSING MACHINE. NORWOOD H. KNOWLTON, Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 18, 1927. Serial No. 234,262. 11 Claims. (Cl. 12—34.)



1. In a machine of the class described, a jack and a pressing member relatively movable to apply pressure to the bottom of a shoe on the jack, driving means including a friction clutch for effecting the relative pressure-applying movement, means for causing the co-operating friction clutch elements to engage each other and start the machine, and additional means to cause said clutch elements to engage each other more firmly.

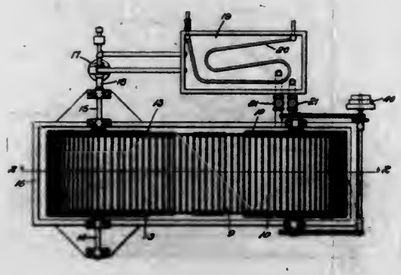
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1,694,446. ATTACHMENT OF SOLE TO SHOE. JAMES WILLIAM MELOON, Wellesley, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 4, 1926. Serial No. 139,429. 9 Claims. (Cl. 36—18.)



1. That improvement in methods of repairing shoes which comprises trimming to a feather edge the edge portion of the sole of a shoe which is to be repaired and attaching a sole member to the sole so trimmed by staples extending from the shank around the ball portion to the toe of the shoe and positioned with the bars of the staples substantially at right angles to the edge of the sole member.

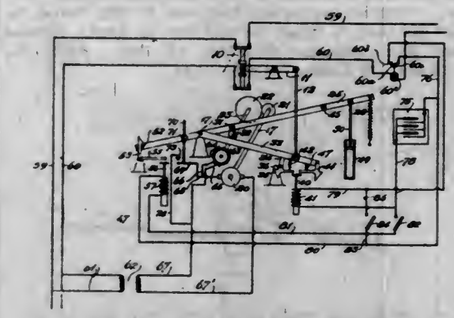
1,694,447. METHOD OF AND APPARATUS FOR TREATING HIDES AND SKINS. MATTHEW M. MERRITT, Middleton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 16, 1922. Serial No. 588,606. 38 Claims. (Cl. 149—10.)



1. Material treating apparatus comprising, in combination, a carrier presenting upper and lower runs between which the material to be treated is carried, means for actuating said carrier to move the material being treated during the treating operation, said carrier providing for suspension of the material from the interior of the upper run of the carrier and for supporting the material above the lower run of the carrier in a treating liquor, and a member stationary in space at one end of the carrier and operative to bend the material progressively throughout its length.

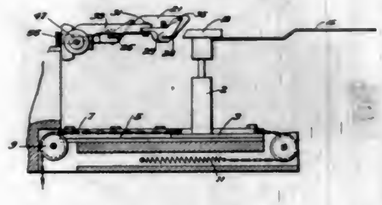
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1,694,448. SWITCH-CONTROLLING DEVICE. GEORGE H. MIDDLEMISS, Birmingham, Ala. Filed June 21, 1923. Serial No. 646,885. 14 Claims. (Cl. 175—294.)



1. A circuit including a main switch, an operating mechanism for the main switch including a trip lever and means actuated by an overload on the main switch for tripping the trip lever to open the main switch, and resetting mechanism including an oscillating lever operable to effect resetting of the trip lever engageable with and disengageable from the trip lever, motor means to oscillate the resetting lever, said motor means including an auxiliary means normally tending to move the resetting lever in one direction and to impart an initial movement to said lever, means actuated by the initial movement of the resetting lever for energizing the motor means, and means controllable by load conditions in the circuit and controlling the mutual engagement and disengagement of said levers and also the initial movement of the resetting lever.

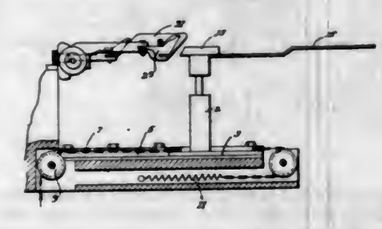
1,694,449. APPARATUS FOR USE IN ASSEMBLING UPPERS AND INSOLES. FRED RICKS and JOSEPH GOULDBOURN, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 7, 1922, Serial No. 527,623, and in Great Britain Jan. 12, 1921. 34 Claims. (Cl. 12—1.)



1. An apparatus for assembling an insole with an upper provided with a previously molded end portion having, in combination, means for supporting the corresponding end of the insole off the last, and means for engaging the molded end of the upper substantially at the margin of the insole and for pressing it inwardly against the edge face of the insole while leaving the remainder of the molded end of the upper substantially free from the inward pressure.

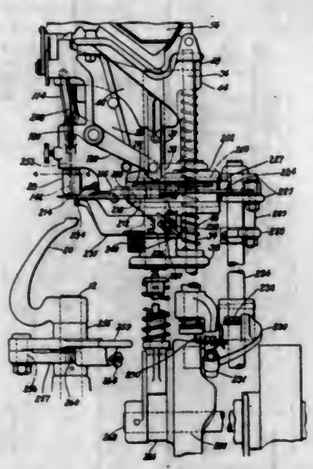
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1,694,450. METHOD OF ASSEMBLING UPPERS AND INSOLES. FRED RICKS and JOSEPH GOULDBOURN, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Jan. 7, 1922, Serial No. 527,623, and in Great Britain Jan. 12, 1921. Divided and this application filed Mar. 16, 1927. Serial No. 175,880. 10 Claims. (Cl. 12—142.)



1. That improvement in methods of assembling an insole with an upper having a previously molded end portion, which consists in pressing the molded end of the upper inwardly against the edge face of the insole by engaging the upper substantially at the margin of the insole while leaving the remainder of the molded end of the upper substantially free from inward pressure, and while holding the end of the upper in that position fastening it to the insole.

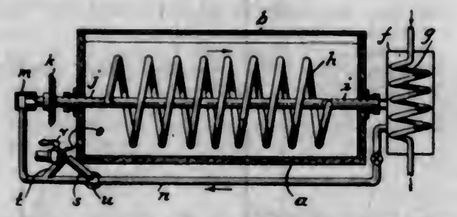
1,694,451. FASTENING-INSERTING MACHINE. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 14, 1925, Serial No. 23,132, and in Great Britain May 2, 1924. 27 Claims. (Cl. 1—18.)



5. A fastening-inserting machine having fastening-inserting means arranged to strike a plurality of blows in succession upon each of the fastenings to be inserted, and means arranged to engage and to move a partially inserted fastening between the striking of two blows to feed the work.

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1,694,452. MILK PASTEURIZER. WILLIAM SANGSTER, Peterborough, Ontario, Canada, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 7, 1927. Serial No. 166,328. 5 Claims. (Cl. 257—79.)



1. The combination with a milk pasteurizing vessel long relatively to its height and width and having a bottom sloping from opposite sides toward its longitudinal center and at one end a discharge opening communicating with the lowest level of said bottom, of a pipe coil in said vessel, a member having a laterally disposed channel communicating with said opening and through which the milk is adapted to outflow, a valve positioned outside the vessel and controlling the discharge through the channel, means providing a jacket for said channel between the valve and the interior of the vessel, a heater, pipe connections between the heater and opposite ends of the coil to provide an endless path for circulation of a heating medium, and means providing a by-pass around one of said pipe connections through said jacket.

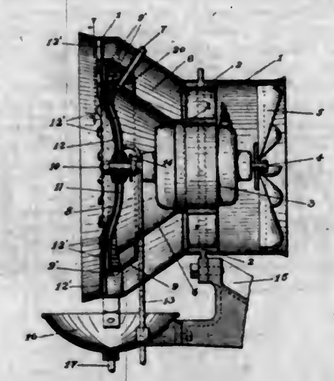
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1,694,453. HUMIDIFIER. EUGENE A. SPAULDING, Portland, Me. Filed Mar. 12, 1928. Serial No. 260,981. 6 Claims. (Cl. 261—90.)

6. A humidifier, comprising an outer, cylindrical casing, a blower fan in one end thereof, an inner casing, forming



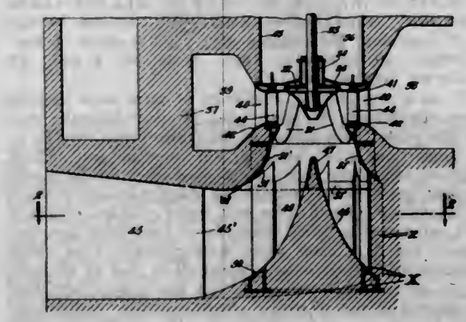
together with the said outer casing an annular space, a revoluble water-distributing disc, a plurality of impeditive elements arranged outwardly of and disposed in the same plane as the said water-distributing disc, means to conduct water to the side of said disc, a revoluble impeller



disc adjacent to but in separated relation to the said water-distributing disc, and a plurality of blades on the periphery of said impeller disc, said blades being so disposed within said outer casing that all water and vapor thrown off said distributing disc shall be subjected to impaction by said blades before passing outwardly from said outer casing.

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1,694,454. HYDRAULIC TURBINE. HARVEY BIRCHARD TAYLOR, Philadelphia, Pa. Original application filed July 24, 1917, Serial No. 182,498. Divided and this application filed Sept. 21, 1923. Serial No. 663,952. 30 Claims. (Cl. 253—117.)

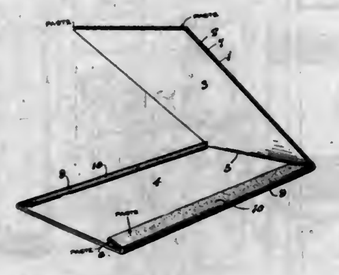


1. In combination, a turbine runner, a structure on the discharge side of said runner having an outflow conduit with walls formed as surfaces of revolution around the runner axis and leading the discharge outward away from said axis and stay vanes between said walls arranged in a series around said axis, said vanes being inclined to radii of said axis and vanes on one side of the conduit having a different sectional curvature from vanes on the other side of the conduit.

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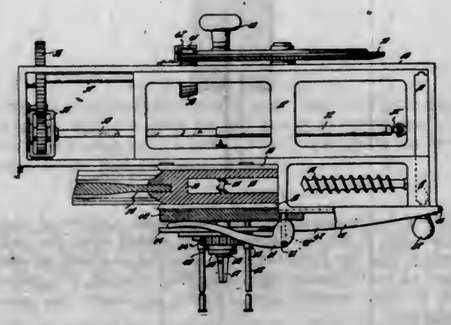
1,694,455. MULTIPLEX BAG AND THE METHOD OF MAKING IT. WILLIAM L. TAYLOR, Cincinnati, Ohio. Filed Oct. 26, 1925. Serial No. 64,862. 1 Claim. (Cl. 93—35.)

The herein described method which consists in first gluing together superposed plies of paper partly along their longitudinal edges and partly away from their longitudinal edges to form blanks for a multiplex bag then dieing out the blank to form a bag of the required dimensions with one side thereof narrower than the other side, then folding the longitudinal edges of the wider side inwardly to form securing flaps, then coating the exposed surface of the outer flaps with adhesive substance, then folding the plies transversely whereby the two sides are brought together and the longitudinal edges of the narrower side are pressed upon said adhesive substance to form the completed bag.



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1,694,456. MORTISING AND BORING MACHINE. JOHN LEE THOMPSON, Meadow, Va. Filed Feb. 2, 1926. Serial No. 85,597. 1 Claim. (Cl. 144—70.)



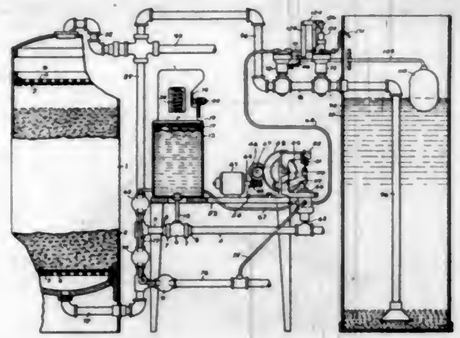
In a boring machine, a main frame, gearing at one end of said frame, means for driving the gearing, an element slidable longitudinally of the frame, a crosshead slidable vertically in said element, a tool and means on the cross head for mounting and rotating the tool, a tubular shaft and a universal joint connecting the shaft with said means last named, and a shaft driven by the gearing mounted in the main frame, this shaft rotating the tubular shaft and being slidable therein.

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1,694,457. WATER-SOFTENING APPARATUS. HARRY A. TOULMIN, Jr., Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 9, 1926. Serial No. 134,559. 12 Claims. (Cl. 210—24.)

1. In an automatic water softening apparatus, a container for softening material, a container for regenerating material, means to deliver water under pressure to the

system, a pressure reservoir outside of said means but connected therewith, a switch operated thereby, a circuit controlled by said switch, means to convert said softening



apparatus from softening position to regenerating position and back to softening position, and means controlled by said circuit for operating said converting mechanism.

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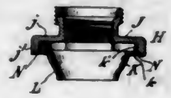
1,694,458. CONFECTION. JOHN WEBSTER TRAUGER, Binghamton, N. Y., assignor to Fair Play Caramels, Inc., a Corporation of New York. Filed May 1, 1926. Serial No. 105,948. 2 Claims. (Cl. 99—16.)



1. An article of commerce comprising a piece of confectionery, a wrapper thereon and folded over the ends thereof, and an impaling stick piercing one end of said piece of confectionery and extending through the folded end of said wrapper and tending to retain the same thereon.

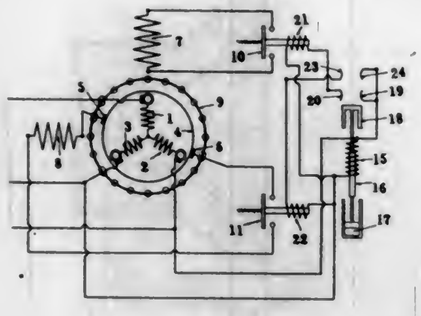
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1,694,459. RIM NUT. JULIUS VOLCKHAUSEN, Weehawken, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Jan. 7, 1925, Serial No. 1,029. Renewed Oct. 4, 1926. 3 Claims. (Cl. 85—32.)



1. A sheet metal nut consisting of two parts, each having a body portion comprising a substantially plane portion and an outer peripheral axially-extending flange, and a tubular extension, the body portions of said parts being of similar polygonal contour and having their peripheral flanges fitting the one within the other and their plane portions in spaced relation to each other, one of said tubular extensions being tapered, and the other one being screw-threaded both internally and externally.

1,694,460. ALTERNATING-CURRENT MOTOR. HANS WEICHSEL, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed July 11, 1925. Serial No. 42,867. 1 Claim. (Cl. 172—274.)



In an alternating current motor, the combination of an inducing member having an inducing winding and a commuted winding, an induced member provided with an exciting winding, a high resistance closed circuited winding and with an auxiliary single phase secondary winding, means for closing the circuit of the auxiliary secondary winding at a speed below synchronous speed, and means for connecting the exciting winding in circuit with the commuted winding at a speed above said last mentioned speed but below synchronous speed.

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1,694,461. FATTY ACID AND SOAP DERIVED FROM MINERAL OIL AND PROCESS OF MAKING SAME. GELLERT ALLEMAN, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed July 18, 1925. Serial No. 44,629. 13 Claims. (Cl. 87—16.)

1. As a new product, a mixture of fatty acids derived from mineral oil, the same being insoluble in water and readily saponifiable, and when saponified being miscible in all proportions with mineral oil and water and when mixed with oil and water forming a homogeneous emulsion and having essential characteristics of soaps of animal or vegetable origin in that it forms with water a similar emulsion and undergoes the same character of hydrolytic decomposition: the fatty acids being distinguishable from other saponifiable derivatives of mineral oil in that in addition to the characteristics specified they are substantially free of mineral oil and petroleum resins, and being distinguishable from fatty acids of animal or vegetable origin in that they have a melting range below minus 30° C.

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1,694,462. MINERAL-OIL DERIVATIVES AND PROCESS OF MAKING SAME. GELLERT ALLEMAN, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 26, 1927. Serial No. 178,819. 8 Claims. (Cl. 260—11.)

1. The process of manufacturing metallic derivatives from petroleum which comprises separating, from an emulsion of soap, petroleum resins and mineral oil, a water soluble soap substantially free from mineral oil and containing a materially reduced amount of petroleum resins, adding thereto a water-soluble metal salt in amount sufficient to exchange the metallic ion of the added salt for the metallic ion of the water-soluble soap, the added metallic ion forming a water-insoluble soap with the acid radical, and separating out the metallic derivative.

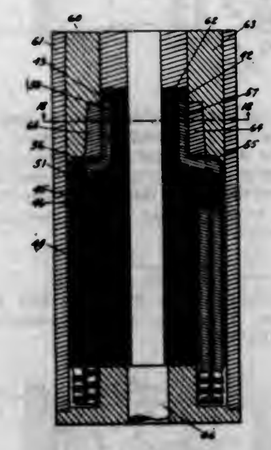


1,694,463. MINERAL-OIL DERIVATIVE AND PROCESS OF MAKING SAME. GELLERT ALLEMAN, Swarthmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Feb. 6, 1924. Serial No. 691,022. 9 Claims. (Cl. 87—16.)

1. The process of treating a composition containing mineral oil, petroleum resins and a fatty acid soap and having the characteristics of the precipitate produced in the alkali treatment of acid-treated mineral oil lubricating stock, to effect a substantially complete separation of the oil from the soap and resins, which comprises adding water to the composition and heating under sufficient pressure to separate the oil from the soap and resins, cooling under sufficient pressure to prevent substantial boiling and the re-entry of the oil, and resins and soap into the emulsion stage, and removing the oil.

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1,694,464. METHOD OF MAKING AN ARMATURE. VINCENT G. APPLE, Dayton, Ohio. Filed Dec. 1, 1927. Serial No. 237,035. 3 Claims. (Cl. 18—59.)

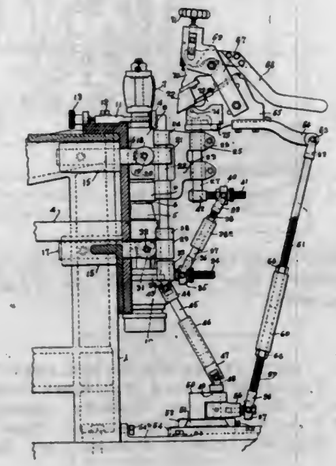


1. A method of making an armature which consists of providing a core having longitudinally extending winding apertures, providing a plurality of winding loops of the character herein described, endwise entering the loops into the core apertures until their open ends extend thru and beyond the core in two concentric rows, circumferentially displacing the end portion of each bar relative to the position contained in a core aperture, leaving the end portions connected to the aperture portions by diagonal portions, molding a mass of insulating material thru and about the diagonal portions to hold them against displacement, radially displacing the end portions of the bars relative to the diagonal portions to bring the ends of the bars of one of the concentric rows into the spaces between the ends of the bars of the other concentric row to provide one cylindrical row composed of circumferentially adjacent ends of bars, holding adjoining ends of bars together in pairs and the pairs spaced apart, and molding insulating material between and about the ends to form a segment from each pair of ends and a commutator from said segments.

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1,694,465. HEEL-TURNING MACHINE. GEORGE CLAUSING, Portsmouth, Ohio, assignor, by mesne assignments, to Vulcan Corporation, Portsmouth, Ohio, a Corporation of Ohio. Filed Nov. 14, 1927. Serial No. 233,163. 23 Claims. (Cl. 12—87.)

1. In a heel turning machine, a frame, spaced cutting knives, a vertically positioned pivot shaft therebetween, a heel block supporting bracket pivoted thereon, a heel block, means to clamp a heel blank thereon, and means comprising a link to adjust the position of the heel block with respect to the horizontal.



21. In a machine for turning heels, means to cut a heel, means to hold a heel to be cut, means to rotate the heel and means comprising a link to vary the angle to the horizontal of the heel during its rotation.

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1,694,466. PROCESS OF OBTAINING METALLIC EFFECTS ON FABRICS CONTAINING ORGANIC DERIVATIVES OF CELLULOSE. RENÉ CLAVEL, Basel-Augst, Switzerland. Filed Apr. 6, 1926. Serial No. 100,179. 23 Claims. (Cl. 8—5.)

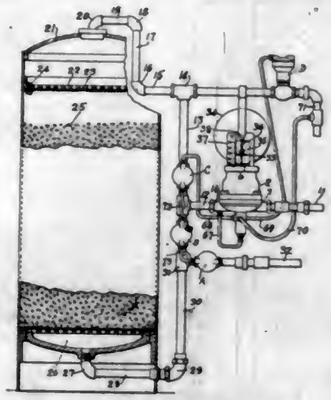
13. A process for treating fabrics containing an organic derivative of celluiose in order to obtain metallic or similar effects thereon which comprises applying to the surface of the fabric a paste containing a gum, a solvent for the organic derivative in the fabric and a powder suitable for obtaining the desired effects, and quickly drying the fabric, thereby fixing the paste on the fabric, then dyeing the fabric with the powder fixed thereon, subsequently stretching the fabric causing some of the partially or completely dissolved threads to break, thus exposing portions of the dyed fabric and finally calendering the stretched fabric.

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1,694,467. FILTER. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 18, 1925. Serial No. 51,015. 14 Claims. (Cl. 210—147.)

1. In a filtering apparatus, means for filtering, means for delivering fluid for filtering to one end of the apparatus and for delivering fluid for washing to the other end of the apparatus, and means for delivering water to a drain from the other end of the filter, and means con-

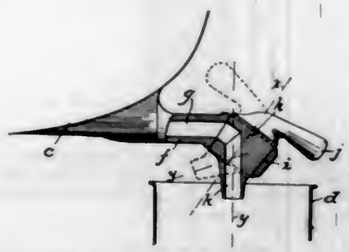
trolled by the incoming water to be filtered for regulating the period of filtering and washing, means for controlling the delivery and exit of fluid through the several means



hereinbefore recited and means to control the operation thereof which in turn is operated by the first-mentioned controlling means.

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1,694,468. CENTRIFUGAL-SEPARATOR FEEDING DEVICE. VINCENT J. GILMORE, Wappingers Falls, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed May 19, 1927. Serial No. 192,611. 4 Claims. (Cl. 233—21.)

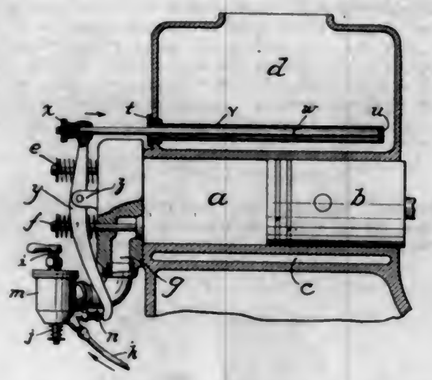


1. The combination with a centrifugal separator, a supply can positioned thereon and a separating bowl and its regulating cup, of a faucet controlling the flow from the supply can to the regulating cup; said faucet comprising a turnable member movable into two positions, one to open the faucet and simultaneously lower its outlet to below the level of the top of the regulating cup, and the other to close the faucet and simultaneously raise its outlet to above the level of the top of the regulating cup to permit the supply can to be freely turned in a horizontal plane.

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1,694,469. MEANS FOR CONTROLLING THE FEED OF GASOLINE ENGINES. CYRUS HOWARD HAPGOOD, Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 30, 1926. Serial No. 98,423. 2 Claims. (Cl. 123—106.)

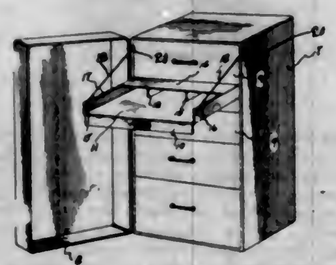
1. In an internal combustion engine, the combination with an engine cylinder, a chamber adapted to contain water and maintain a water jacket around the cylinder, means providing a passage for admission of gasoline to the engine, and a movable valve governing the rate of gasoline inflow, of a tube extending in the direction of extension of the cylinder and throughout the major part of the length of said chamber, said tube being open at one end and closed at the other, the open end of the tube extending into an orifice in the chamber wall and being supported by said wall, its closed end being unsupported, a rod having a coefficient of expansion different from that of the tube and one end of which is secured to the closed end of the tube and which extends throughout the length of the tube and beyond its open end, temperature changes in the water therefore effecting a longitudinal movement of one end of



the rod with the closed end of the tube while the other end of the rod has a longitudinal movement relative to the open end of the tube, and means, actuable by the rod in its longitudinal movement, adapted to control the position of the valve to effect a closing movement of the valve as the water warms and an opening movement of the valve as the water cools.

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1,694,470. COMBINATION TRUNK. EVA Z. HURSH, Detroit, Mich. Filed Feb. 9, 1925. Serial No. 7,844. 2 Claims. (Cl. 190—9.)

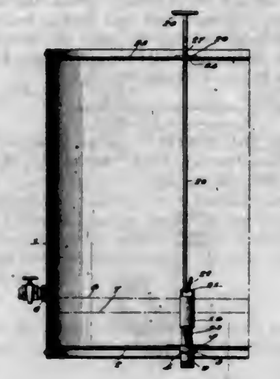


1. In combination with a trunk having a plurality of drawers therein, a comparatively shallow drawer forming member having side walls and a front wall, said front wall being swingably mounted on said member and adapted for swinging into a downwardly extending position for permitting the use of the base of said drawer as a writing surface; and means permanently connected swingably at one end to said drawer forming member and adapted for detachable connection at the other end to said trunk for bracing said drawer forming member when used as a desk and preventing inward movement of the same.

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1,694,471. OIL SAVER. NORBERT J. JACOBI, Electra, Tex. Filed Jan. 5, 1927. Serial No. 159,231. 7 Claims. (Cl. 210—51.)

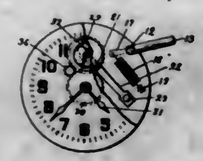
1. An oil saver for a tank having a drain opening in its bottom comprising a tubular member having an externally screw threaded lower end portion, a tubular base member having a relatively large and heavy flange at its upper end and having a lower end portion formed with a downwardly tapering external wall, said base member having a screw threaded counterbore in its flanged upper end for engaging with the threaded lower end portion of the first tubular member, a gasket on the tubular base member underneath the flange, said tubular base member being



adapted to be lowered through said tank until the tapering lower end portion thereof depends into the drain opening and until the gasket is clamped between said flange and the tank bottom, and a second tubular member vertically adjustable on said first named tubular member.

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1,694,472. TIME SWITCH. HERMAN H. KEMPF, New York, N. Y. Filed Oct. 19, 1925. Serial No. 63,396. 6 Claims. (Cl. 200—39.)

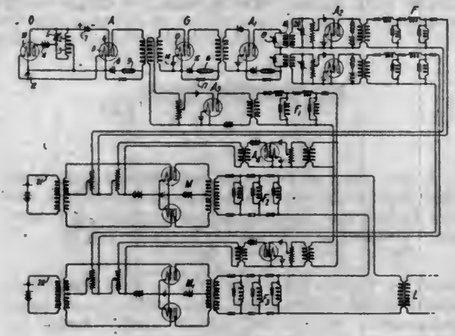


1. Operating means, for an automatic time switch having an alarm clock tripping device, comprising a pin mounted transversely slidable in the clock frames, a shaft rotatably mounted in said frames, a plurality of relatively movable switch elements, a flat resilient switch lever fixed to said shaft near one end of same adapted to rotate with a flat face substantially parallel to one of said frames, said lever adapted when tripped to effect relative motion between the switch elements for opening or closing an electric circuit therethrough, said lever being suitably formed for locking engagement with the end of said pin, spring means for normally pressing said pin against said alarm tripping device whereby said pin follows same when tripped and releases the lever, said pin projecting when untripped into the path of said lever causing flexure of said lever when it is moved over the end of said pin into locking engagement therewith.

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1,694,473. HIGH-FREQUENCY SIGNALING. BURTON W. KENDALL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 21, 1919, Serial No. 291,449. Renewed Sept. 16, 1927. 20 Claims. (Cl. 179—15.)

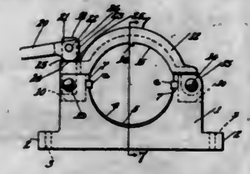
5. The method of transmission which comprises deriving a carrier wave from base frequency oscillations, modulating said carrier wave in accordance with another wave, suppressing all components except one side band of the modu-



lated carrier wave, deriving other waves from said base frequency oscillations and reinforcing said side band with said other waves.

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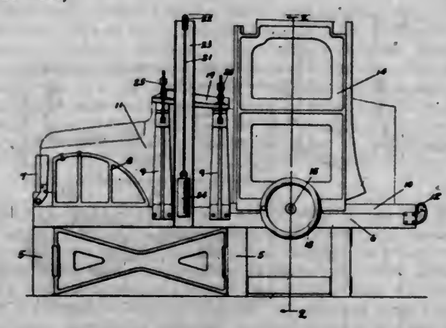
1,694,474. HOLDING AND CLAMPING DEVICE. ABRAHAM A. LAINER, Worcester, Mass. Filed June 20, 1927. Serial No. 200,153. 3 Claims. (Cl. 29—89.)



1. In a device of the class described, a base providing a substantially semi-circular cut out portion, lugs provided by said portion for the non-rotatable holding of a cylinder, a complementary clamping member pivotally attached to said base, a link pivotally connected to said base opposite the pivotal attachment of said clamping member, and a cam lever pivotally attached to said link, whereby to lock said clamping member firmly in place on said base and hold a cylinder from any movement.

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1,694,475. JIG FOR USE IN MAKING AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 15, 1924. Serial No. 706,675. 12 Claims. (Cl. 29—89.)



1. In a jig structure, a framework to receive a body, body unit assembly or the like, in combination with a positioning and retaining member arranged to engage between the door posts of the body or body unit, and means to adjust said member into and out of engaging relation with respect to the door posts, and means carried by said member to engage over the door sill of the body or body unit.

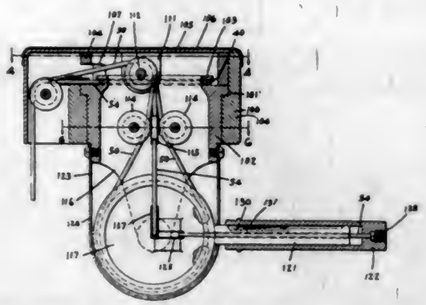
1,694,476. RUBBER FLOORING. VICTOR LEFEBURE, London, England. Filed Jan. 16, 1925, Serial No. 2,786, and in Great Britain May 6, 1924. 4 Claims. (Cl. 94—3.)



1. A floor construction comprising a base, a rigid intermediate layer of asbestos cement secured to said base, and rubber surface floor elements vulcanized on to said intermediate layer.

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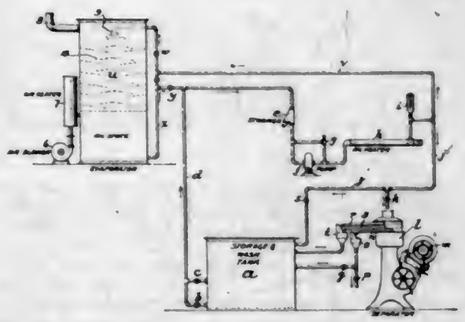
1,694,477. DIRIGIBLE MOUNTING AND CONTROL MECHANISM THEREFOR. GEORGE WILLIAM H. LONG, Indianapolis, Ind. Filed Apr. 2, 1921. Serial No. 458,013. 30 Claims. (Cl. 74—39.)



1. A dirigible construction including a completely dirigible movable mounting, a completely dirigible movable handle, cable means connecting said handle and said mounting, and means for maintaining said cable means taut at all times.

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1,694,478. APPARATUS FOR RECLAIMING USED LUBRICATING OIL. PHILIP F. MILLER, Maplewood, N. J., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 6, 1924. Serial No. 736,251. 4 Claims. (Cl. 196—16.)



1. In an apparatus for reclaiming used lubricating oil, the combination of a tank for containing the used oil, a centrifugal separator provided with outlets for relatively light and heavy constituents, an evaporator, a main conduit for used oil leading from the tank, a pump and a heater interposed in said conduit, three branch conduits communicating with the main conduit, one branch conduit leading to the centrifuge, the second branch conduit leading back to the tank and the third branch conduit leading to the upper part of the evaporator, and means to convey liquid from the light constituent outlet of the centrifuge to the tank above the level of the outlet therefrom to the main conduit, whereby oil can be circulated from the tank successively through the main and first branch conduits and centrifuge to the tank, through the main and second branch conduits to the tank, and through the main and third branch conduits to the evaporator.

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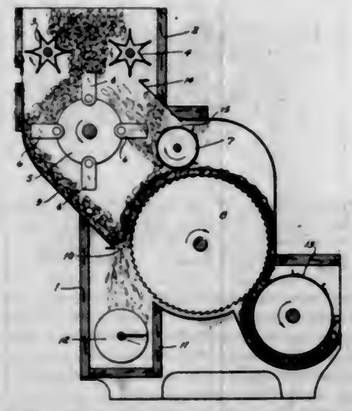
1,694,479. ELECTRIC SWITCH. JOHN L. MILTON, Louisville, Ky. Filed Apr. 17, 1922. Serial No. 554,300. 1 Claim. (Cl. 200—52.)



In a tiltable electric switch of the class described provided with a liquid conductor and a liquid conductor container in which a plurality of electrodes are located, means for operating said switch through different cycles, means within said container to cause the liquid conductor to flow at unequal time periods for the different cycles of operation, and at substantially equal time periods for the corresponding cycles.

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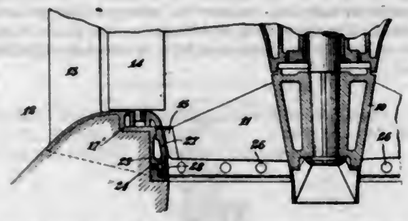
1,694,480. BOLL-BREAKING AND COTTON-SEPARATING MACHINE. JOHN E. MITCHELL, St. Louis, Mo. Filed Feb. 14, 1927. Serial No. 167,974. 7 Claims. (Cl. 19—37.)



1. In a boll breaking and cotton separating machine, in combination with a rotatable saw cylinder, a rotatable kicker roll co-operating therewith for knocking back bolls and hulls carried up by the cotton, a hull-board, the lower end of which defines the size of an escape opening for hulls past said saw cylinder, and a rotatable breaker cylinder positioned to receive and act upon bolls and hulls thrown out by the kicker roll and to discharge such bolls and hulls together with the mixture of bolls, hulls and cotton delivered to the machine, and acted upon by said breaker cylinder, directly onto the saw cylinder, said breaker cylinder being adapted to be rotated in juxtaposition to said hull-board and downwardly as respects its side adjacent to said hull-board and in a direction opposite to the direction of rotation of the saw cylinder.



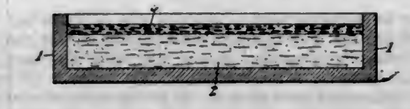
1,694,481. PROPELLER-TYPE TURBINE OR PUMP. LEWIS FERRY MOODY, Philadelphia, Pa. Filed July 12, 1926. Serial No. 121,787. 18 Claims. (Cl. 253—148.)



1. In a runner for a turbine or pump the combination with a central hub portion, of a circumferential series of unshrouded blades thereon normally having a fixed relation thereto, each blade being provided with yielding means at its tip for reducing clearance and increasing the efficiency of the runner.

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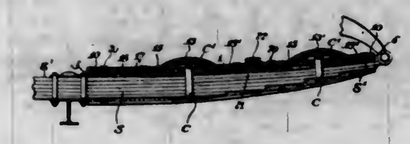
1,694,482. MUSHROOM BED. RICHARD HENRY MORRIS, 3d, Philadelphia, Pa. Filed Aug. 20, 1925. Serial No. 51,331. 2 Claims. (Cl. 47—1.)



2. A mushroom bed including a compost containing fertilizing material, associated with a mixture of fibrous peat and a material toxic with respect to mushroom disease germs.

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1,694,483. VEHICLE SPRING COVER. THOMAS MUNRO, Philadelphia, Pa. Filed Apr. 13, 1925. Serial No. 22,530. 2 Claims. (Cl. 267—37.)

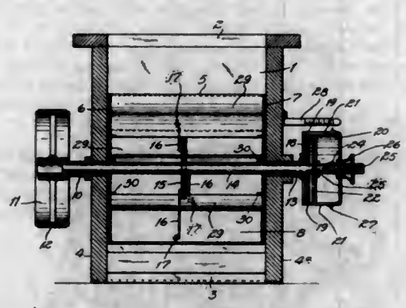


1. A spring cover for vehicle springs comprising an outer envelop of flexible material having a central portion adapted to lie adjacent the top leaf of a spring and provided with a recess in its under face formed by striking up the material of the envelop and with side flaps laterally disposed with respect to the central portion and adapted to be turned down adjacent the sides of the spring, a strip of absorbent material disposed beneath said central portion and extending from one end of the cover to the other and into said recess to form a lining therefor, said strip being of less width than said recess, spacer strips of similar material interposed between said strip and the envelop adjacent each end of the recess, and means for securing said envelop, spacer strips and strip together.

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1,694,484. PERCENTAGE FEEDER. BURTON NEAL, St. Louis, and GEORGE H. HEBEBRAND, Kinloch, Mo. Filed Mar. 26, 1926. Serial No. 97,494. 3 Claims. (Cl. 83—44.)

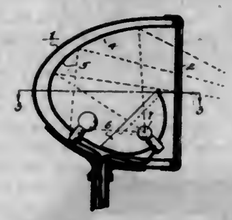
1. A feeding machine of the class described, comprising a casing affording an inlet and an outlet, a feed drum rotatably mounted in said casing between said inlet and outlet, a plurality of segmental members pivotally mounted at one end, a curved radially-disposed partition located in proximity to the free end of each of said segmental members, a shaft rotatably mounted in said casing, a disk on said shaft, and a series of arms each of which is pivotally connected at one end to the peripheral portion of said disk, and at the other, to the free end of a segmental member, means for rotating said feed drum, and means for manually turning said shaft in either direction



adjustable distances, whereby to simultaneously move the free ends of all of said segmental members toward or from the periphery of said feed drum to vary the size of peripheral pockets formed on said feed drum by said segmental members and partitions.

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1,694,485. VEHICLE HEAD LAMP. KELLY NEWLAND and LEO J. MILLER, Columbus, Ohio. Filed Jan. 28, 1926. Serial No. 84,503. 1 Claim. (Cl. 240—41.)



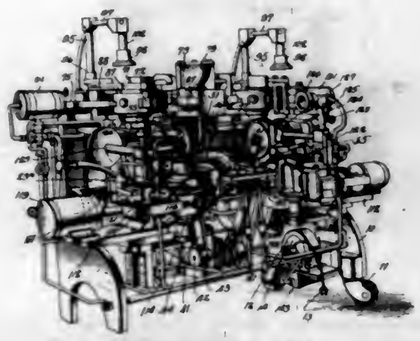
In a vehicle head lamp, a casing, a main reflector arranged within said casing, a baffle plate extending upwardly and forwardly from the bottom portion of said reflector and confined within said main reflector, the upper edge of said plate lies substantially in the horizontal axis of said main reflector to provide a light opening between the upper edge of said baffle plate and said main reflector, a second reflector formed integral with said baffle plate and having its reflecting surface facing the interior of said lamp, a source of light in each of said reflectors, the source of light in said main reflector being so positioned therein that it is concealed from view by the secondary reflector, and means for securing the baffle plate to said main reflector.

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1,694,486. GLASS-BLOWING MACHINE. CLARENCE R. NIXON, Baltimore, Md., assignor, by direct and mesne assignments, to Baltimore Bottle Machine Corporation, Baltimore, Md., a Corporation of Maryland. Filed June 14, 1927. Serial No. 198,773. 26 Claims. (Cl. 49—9.)

9. In a glass blowing machine, a combined slug support and neck mold adapted to form a mold bottom, a primary blank mold having hinged sections movable to close on and open from said neck mold, a secondary blank forming mold also movable to close on and open from said neck mold, means to effect successive closing and opening of the primary mold and closing and opening of the secondary mold, means to retain the neck mold in fixed position during the opening and closing of the primary and

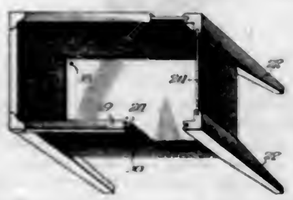
secondary molds, a finishing mold adapted to open and close at a point remote from the point of opening and closing of the primary and secondary mold, said neck mold retaining means including elements arranged to move the



neck mold into cooperative relation with the finishing mold subsequent to the opening of the secondary mold and prior to the closing of the finishing mold, and means to open and close the finishing mold.

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1,694,487. METAL RECEPTACLE. SOREN RINGER, Worcester, Mass., assignor to Ringer-Worcester Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 3, 1926. Serial No. 120,398. 1 Claim. (Cl. 312—1.)

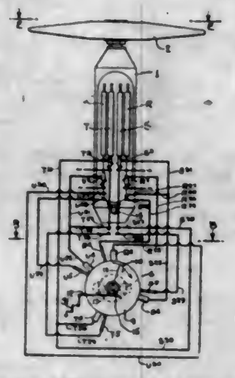


A receptacle comprising a plurality of supporting legs each having mortises adjacent two of the corners thereof adjacent their tops, and a horizontally extending supporting portion adjacent the lower ends of the mortises, panels tenoned in said mortises and connecting adjacent legs, a sheet metal lining including a bottom supported by and secured to the supporting portions of the legs, the sides of said lining terminating at their top edges in outwardly and downwardly formed portions embracing the top edges of the panels, and sheet metal corner pieces secured to and connecting adjacent sides of the lining along the outwardly and downwardly formed edges thereof at the corners.

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1,694,488. SYNCHRONIZED MACHINE GUN FOR AIRPLANES. OSCAR A. ROSS, New York, N. Y. Filed Apr. 9, 1927. Serial No. 182,346. 11 Claims (Cl. 89—27.)

1. In combination with a plurality of machine guns synchronized to fire between the blades of an air plane propeller, means for driving the propeller, means controlled by the driving means for firing the guns, in sequential order, a centrifuge driven by the propeller driving means, and means controlled by the centrifuge for varying the moment of fire of the sequential firing means with respect to the blade location, whereby the bullets of the gun are restrained to pass between the blades at the plane of movement of the blades upon operation of the sequential firing means.



5. In combination with a machine gun synchronized to fire between the blades of an air-plane propeller, of means for driving the propeller, means for firing the gun, a governor arranged to be rotated by the propeller driving means, and means controlled by the governor for rendering the firing means effective to fire the gun at one range of speed of rotation of the propeller and ineffective to so fire at another range of speed thereof.

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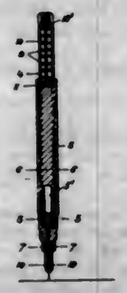
1,694,489. MACHINE FOR DRYING VENEERS. LEO RUBINSTEIN, Vienna, Austria. Filed Oct. 1, 1927, Serial No. 223,331, and in Austria Oct. 9, 1926. 13 Claims. (Cl. 34—31.)



1. In a machine for drying veneers, the combination of heaters, means for moving the heaters in the direction of the veneers, and means for feeding the veneers to be dried past the said heaters along a feed path.

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1,694,490. MARKING DEVICE. ERNST SALEMANN, Solothurn, Switzerland. Filed July 28, 1924. Serial No. 728,763, and in Germany Aug. 6, 1923. 5 Claims. (Cl. 33—27.)

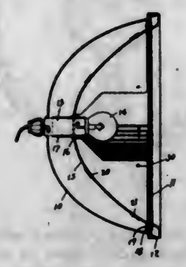


1. A marking instrument for use in making drawings, including a spindle having a pricking needle adapted to form a point in a drawing surface, a sliding member having a bearing on said spindle and movable along the same, a marker carried by said sliding member and movable therewith from a normally retracted position into engagement with said drawing to form a mark thereon adjacent the point formed by said needle, and means for normally retaining said marker in its retracted position.

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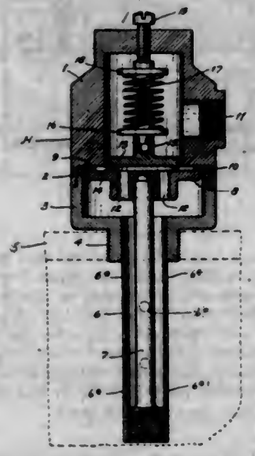
1,694,491. LIGHT DIFFUSER FOR HEADLIGHTS. BIRNEY K. SMITH, Newcastle, Ind. Filed Apr. 22, 1927. Serial No. 185,677. 1 Claim. (Cl. 240—484.)



In a headlamp, the combination with a concave reflector and a light bulb support disposed centrally therein; of a diffuser comprising a plurality of flat vanes arranged in spaced relation to each other and radially within said reflector and having their outer edges conforming to and engaged with the latter, the inner ends of said vanes curving inwardly and secured to said bulb support, and the inner edges of said vanes radiating outwardly and forwardly from said support with the forward edges terminating adjacent to the forward end of said reflector and concentric therewith.

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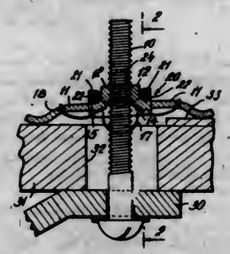
1,694,492. PRESSURE AND TEMPERATURE CONTROL VALVE. HARRY C. TABLER, St. Louis, Mo., assignor to American Heater Corporation, St. Louis, Mo., a Corporation of Missouri. Filed July 2, 1927. Serial No. 203,079. 4 Claims. (Cl. 277—42.)



1. A valve comprising a housing adapted to be secured to a hot water tank or the like and communicating with the interior thereof, a thermosensitive member mounted in said housing and extending into the tank, a relatively non-expansible rod secured to said thermosensitive member to move therewith, a valve on the end of said rod normally seated against a seat provided therefor in said housing to prevent water from passing out, said valve being provided with openings therethrough and a second valve in said housing large enough to cover the openings through said first valve and normally seated against said first valve but yieldable under predetermined pressure of the water in the tank, said housing being provided with a relief opening on the opposite side of said valves from said tank to permit escape of water when either of said valves is actuated.

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1,694,493. TOGGLE BOLT. CHARLES C. TOMKINSON, Plainfield, N. J., assignor to J. Edward Ogden, Mountainville, N. Y. Filed Feb. 3, 1925. Serial No. 6,617. 58 Claims. (Cl. 85—3.)

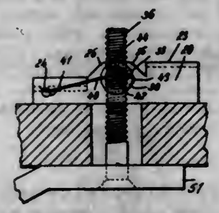


5. A pair of members having oppositely curved threaded portions so arranged that in different angular positions of the members the threaded portions thereof may engage the threads of a screw, said threaded portions being interrupted at an intermediate part of said threaded portions so as to release the threaded engagement between the member and the screw at one angular position of the members, said members together forming a nut.

51. A toggle bolt head comprising a pair of wings having flat flanges extending from the sides of the wings, a collar having a pair of bars engaging the outer surfaces of said wings and around which the wings are arranged to swing and flat sides connecting the bars, each of said wings having lugs extending laterally from opposite sides of each wing arranged to engage the upper part of the sides of said collar and a spring having a coil interposed between the flanges of the wings and one of the sides of the collar, arranged to press the other flanges of the wings against the other side of the collar and having parts engaging the lugs and arranged to spread the wings apart.

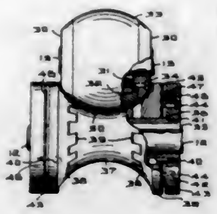
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1,694,494. TOGGLE BOLT. CHARLES C. TOMKINSON, Plainfield, N. J., assignor to John Edward Ogden, Mountainville, N. Y. Filed June 19, 1925. Serial No. 38,194. 20 Claims. (Cl. 85—3.)



1. A toggle bolt comprising a wing having a bearing portion, a nut rotatably mounted in said bearing portion, a bolt threaded into said nut, said nut and wing having stop means for limiting the rotatable movement of the nut relative to the wing, and a spring acting on the nut and wing to effect relative rotation of these elements, said stop means and spring being constructed and arranged to retain the nut in the wing bearing portion.

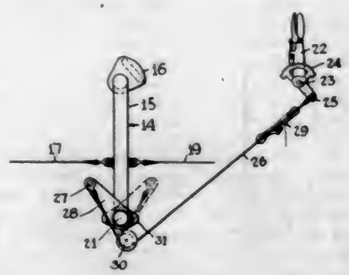
1,694,495. MACHINE FOR ROLLING SHEET METAL. ROBERT TRAFELET, Fostoria, Ohio, assignor, by direct and mesne assignments, to The Yoder Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 5, 1922. Serial No. 586,177. 8 Claims. (Cl. 153—58.)



7. A sheet metal rolling machine consisting of a pair of related complementary spaced rollers between which a section of said metal may be passed to effect shaping thereof, one of said rollers embodying a working roll comprising sections having dove-tailed joints between them, means tending to yieldingly maintain said sections together, and means for driving one of said rollers.

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1,694,496. RUDDER-OPERATING MECHANISM FOR AIRCRAFT. THEODORE P. WRIGHT, Port Washington, and WILLIAM WAIT, Jr., Garden City, N. Y., assignors to Curtiss Aeroplane & Motor Co., Inc., a Corporation of New York. Filed July 13, 1926. Serial No. 122,144. 6 Claims. (Cl. 244—29.)



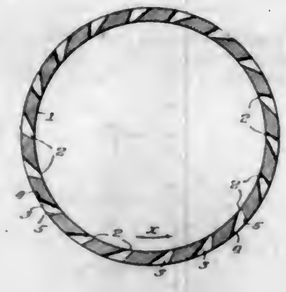
6. In control surface operating mechanism for aircraft, a movable control device, a connection between said control device and the control surface, an arm movable with said control device and with respect thereto from an angular position at one side thereof to a corresponding angular position at the opposite side thereof, means engaging said arm for holding it in either position of adjustment, and means fastened to said arm for exerting thereon and on said control device an operating force tending to counteract the resistance offered to the angular movement of said control surface, and mechanism operable to vary the degree of said operating force.

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1,694,497. PLANT DISINFECTANT AND METHOD OF PRODUCING THE SAME. RUDOLF ZELLMANN, Radebeul, and DIETRICH LAMMERING, Brunswick, Germany, assignors to Chemische Fabrik von Heyden, Radebeul-Dresden, Germany, a Corporation of Germany. Filed Dec. 26, 1925, Serial No. 77,845, and in Germany Oct. 4, 1924. 4 Claims. (Cl. 167—16.)

1. A plant disinfectant in the form of a pulverulent mass, comprising metallic copper in an extremely finely divided state.

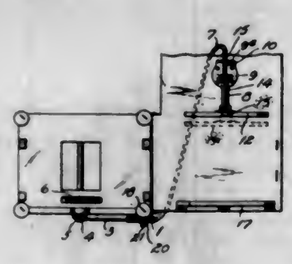
1,694,498. ROTARY SCREEN OR PLATE FOR PRODUCING SAME. WILLIAM CHARLTON BRUTON, Berkeley, Calif., assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Apr. 6, 1927. Serial No. 181,356. 3 Claims. (Cl. 209—397.)



1. A circumferential wall for rotary mineral separators, having discharge openings, the inner or receiving ends of which are calibered to gauge the material discharged; said wall being of massive construction and having a thickness that provides, by the extension of its openings through it, and as confines of its said openings, faces of substantial dimensions; the face which provides the rear or trailing confine of each opening being inclined outwardly and rearwardly at a relatively large angle toward the tangent of the screen at the opening, so that the openings are flared circumferentially of the screen and assume a direction approaching that of the natural flow of material escaping from the separator under internal pressure and its own inertia.

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1,694,499. PAPER JOGGER. JAMES A. CARLTON, St. Louis, Mo. Filed Apr. 7, 1926. Serial No. 100,333. 17 Claims. (Cl. 271—89.)



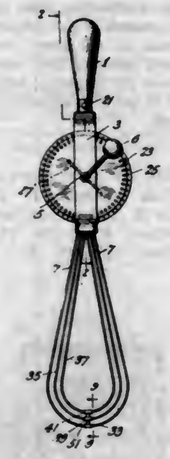
1. A pneumatic paper jogger of the class described, comprising a reciprocable vertically disposed plate, a piston connected therewith and adapted to reciprocate, a stationary cylinder for the piston, another cylinder, a flexible tube joining and affording communication between said cylinders, a piston reciprocable therein, and means for causing said last-named piston to reciprocate and to alternately compress and rarify the air in the tube and cylinders to thereby reciprocate said plate.

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1,694,500. EGG BEATER. JAMES O. H. CAZENOVE, New York, N. Y. Filed May 21, 1926. Serial No. 110,651. 5 Claims. (Cl. 259—132.)

1. An egg beater including a handle, an upper frame attached thereto, a lower frame secured to said upper frame, two beaters mounted within said lower frame for rotation in relatively reversed directions, and means carried by said upper frame including two sprockets secured

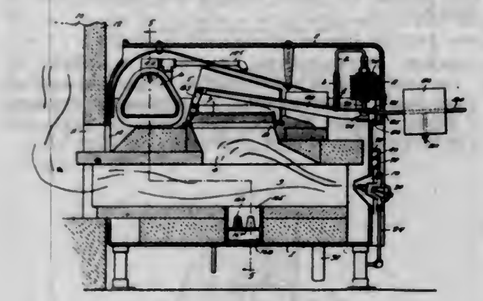




to a single shaft by spacer elements riveted to said sprockets and keyed to said shaft, said shaft being journaled horizontally in said upper frame.

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1,694,501. AUTOMATICALLY-CONTROLLED BURNER. LEE S. CHADWICK, Shaker Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 5, 1925. Serial No. 60,425. 12 Claims. (Cl. 158—28.)

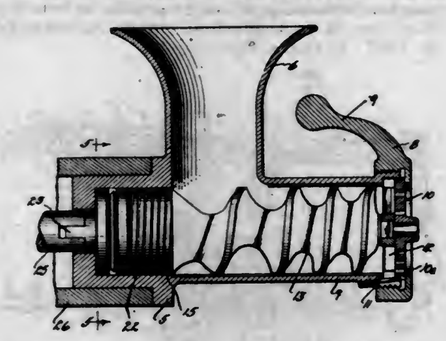


1. In combination, an atomizing burner, a boiler situated to receive heat from the burner and from which boiler the burner receives its steam supply, means for supplying oil to the burner, means controlling the proportion of heat applied to the boiler, steam operated means communicating with the boiler for actuating the controlling means, and temperature controlled means functioning independently of the steam pressure in the boiler for varying the quantity of steam delivered to said steam operated means.

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1,694,502. FOOD GRINDER. WILLIAM W. DRYDEN, Louisville, Ky., assignor to Walter F. Stimpson, Louisville, Ky. Filed Aug. 30, 1924. Serial No. 735,073. 4 Claims. Cl. 146—189.)

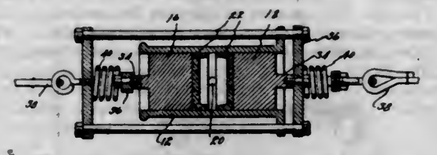
1. In a food grinder, a casing having a barrel open at its rear end and an inlet throat opening into the barrel intermediate its ends, a feed shaft mounted in the barrel and having a worm member extending from the inlet throat to the open extremity of the barrel and a widened portion



extending forwardly from the inlet throat opening, and a secondary worm feed arranged in the periphery of said widened portion.

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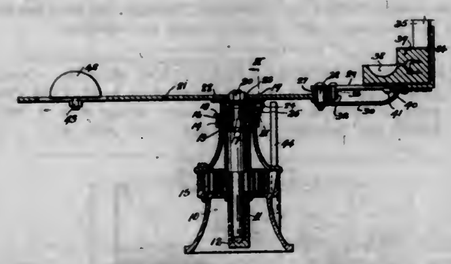
1,694,503. PISTON AND CYLINDER CONSTRUCTION. BURTON S. FLORADAY, Toledo, Ohio, assignor to Hydraulic Brake Company, Detroit, Mich., a Corporation of California. Continuation of abandoned application Serial No. 699,196, filed Mar. 14, 1924. This application filed Sept. 24, 1926, Serial No. 137,617. Renewed May 11, 1928. 1 Claim. (Cl. 21—38.)



In piston and cylinder construction, a cylinder, a pair of opposed pistons operatively disposed therein, a connecting rod for each piston, a yoke for each connecting rod, each yoke passing around the cylinder and arranged at an angle to the other yoke and passing therethrough, and a pair of springs one at each end of the cylinder disposed between the respective yokes to exert pressure thereon counter the force exerted by the piston.

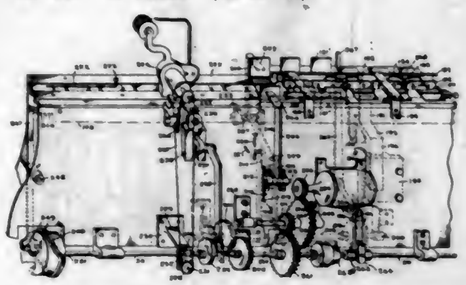
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1,694,504. CENTRIFUGAL CASTING MACHINE. JOSEPH A. GARDNER and DAVID S. GARDNER, Memphis, Tenn. Filed Mar. 4, 1927. Serial No. 172,874. 2 Claims. (Cl. 22—65.)



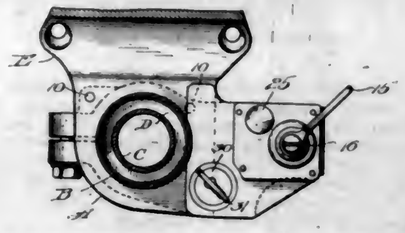
1. A casting apparatus comprising a vertical shaft, means for driving said shaft during a limited period, a mold carrying arm mounted for free rotation on the extreme upper end of said shaft, a pin projecting from said shaft, a pawl carried by said arm, depending into the path of said pin during action of said driving means, and over riding said pin when driving action is spent.

1,694,505. BOOK-MATCH MACHINE. LEO GREENBAUM, Far Rockaway, EDWARD VAN HOOFSTADT, Oceanside, and CHARLES GUSTAVSON, Brooklyn, N. Y., assignors to Lion Match Company, Inc., a Corporation of New York. Filed Apr. 30, 1925, Serial No. 27,110. Renewed July 23, 1927. 40 Claims. (Cl. 93—7.)



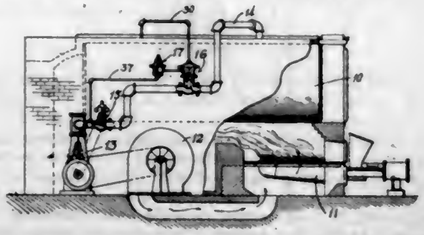
1. In a machine of the class described, means for intermittently feeding and cutting the covers and the match splints therefor, said covers fed beneath said splints, means for placing said cut splints upon said cut covers, means for partly folding said covers over said splints, and independent means for completing the fold of said covers, both of said folding means comprising folding members moving across the path of feed of said splints and covers, said splint feeding means and said cover feeding means comprising separate instrumentalities.

1,694,506. AUTOMOBILE LOCK. ORVILLE S. HERSHEY, Chicago, Ill., assignor to Hershey Manufacturing Company, Chicago, Ill., a Corporation of Colorado. Filed Apr. 12, 1926. Serial No. 101,300. 16 Claims. (Cl. 70—127.)



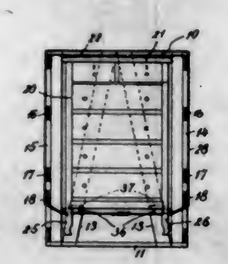
1. In a lock, the combination with an operating member, of a bolt movable into engagement with said member to oppose operation thereof, a control means for the bolt movable through a first portion of its cycle before actuating the bolt, and a releasable stop for normally preventing movement of the bolt, said stop being releasable only when the control means has advanced through the first portion of its movement cycle, substantially as described.

1,694,507. PRESSURE-REGULATION MEANS. CURTIS L. HOWSE, Detroit, Mich., assignor to A. W. Cash Company, a Corporation of Delaware. Filed Mar. 2, 1922. Serial No. 540,649. 10 Claims. (Cl. 236—85.)



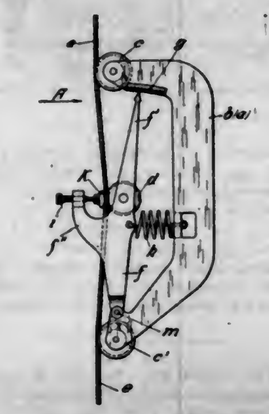
1. The combination with a steam boiler, a steam engine to be regulated consistently with boiler pressure, and regulating means comprising a valve connected to control communication between said engine and boiler and valve-operating means, said operating means comprising a valve-moving part, means for imposing a relatively small mechanical load on said moving part, means adapted and arranged to modify fluctuating fluid pressure to substantial constancy and maintain a substantially uniform fluid pressure of the order of, but lower than, the boiler pressure, acting on said part in the same direction as the load, and connections for imposing boiler pressure on said part in opposition to said substantially constant pressure and mechanical load.

1,694,508. METHOD OF AND APPARATUS FOR CRATING FURNITURE. ALFRED P. KIVLIN, New York, N. Y., assignor to H. J. Forster, trustee of the American Railway Association. Filed Jan. 21, 1927. Serial No. 162,451. 4 Claims. (Cl. 217—52.)



1. In combination, a furniture crate having a top, longitudinal and transverse side members and a bottom, and flexible means for suspending the article to be crated extending across the top, down the sides and through the crate beneath the article in supporting position with respect thereto.

1,694,509. TENSIOMETER. WOLFGANG KLEMPERER, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit Beschraenkter Haftung, Friedrichshafen, Bodensee, Germany. Filed Nov. 12, 1925, Serial No. 68,491, and in Germany Dec. 1, 1924. 6 Claims. (Cl. 265—1.)

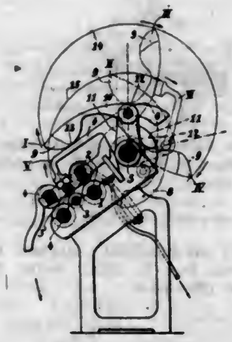


1. A tensiometer comprising three operatively connected guides disposed in staggered relation, two of the guides



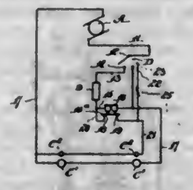
serving as supports for a tension member situated at the same side of all three of the guides, the other guide being disposed intermediately of the supporting guides, means connected to the intermediate guide for pressing the tension member against the latter guide, resilient means connected to the intermediate guide for resisting movement of the latter with respect to the supporting guides.

1,694,510. DRAWING FRAME. HERMANN KLUFTINGER, Kempten, Germany. Filed June 23, 1927, Serial No. 200,840, and in Germany Aug. 3, 1926. 6 Claims. (Cl. 19—135.)



1. In drawing frames for textile fibres, the combination of a plurality of pairs of rollers through which the strand or thread of fibres is passed; a balanced pressure lever bearing on one of the rollers of an intermediate pair and means for regulating the load on the said balanced pressure lever.

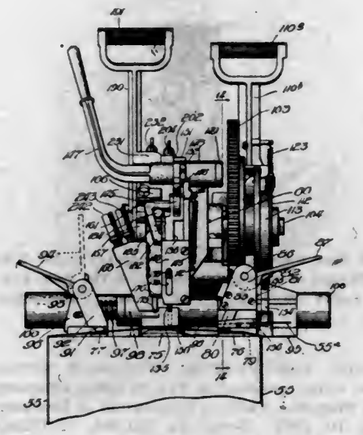
1,694,511. AUTOMATIC CONTROL FOR HEADLIGHTS. ELAINE VON DER LIPPE-LIPSKI, Atlantic Highlands, N. J. Filed June 23, 1924. Serial No. 721,962. 3 Claims. (Cl. 171—97.)



1. Means for controlling the brilliancy of electric headlights comprising a source of electric energy, electric headlights in circuit therewith, and a light sensitive medium having the property of decreasing its conductivity of the electric current by the action of light thereon, said medium being included in the circuit between the source of electric energy and the electric headlights.

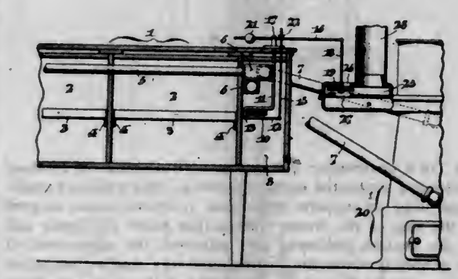


1,694,512. ELECTRIC WELDING MACHINE. CHESTER M. MACCHESNEY and RALPH H. NORTON, Chicago, Ill., assignors to Acme Steel Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 21, 1923. Serial No. 664,089. 20 Claims. (Cl. 219—4.)



1. A device for welding a metal strap comprising means for holding a strap in the form of a loop, means for severing said strap from the source of supply with the ends of the loop overlapping and directed in opposite directions, and means operating thereafter for electrically welding the overlapping ends of the strap.

1,694,513. AUTOMATIC TEMPERATURE-CONTROLLING DEVICE FOR INCUBATORS. PERRY STOVER MARTIN, Harrisonburg, Va. Filed Sept. 23, 1920, Serial No. 412,258. Renewed Aug. 11, 1926. 2 Claims. (Cl. 236—4.)



1. The combination with an incubator having associated therewith a heater, and comprising a multiplicity of separate incubator compartments, an auxiliary chamber completely isolated from said incubstion compartments, and a primary temperature controlling device located at the egg level within said auxiliary chamber, said device including a thermostat and coordinated means for governing the draft of the heater and thereby automatically controlling the temperature of the heating medium.

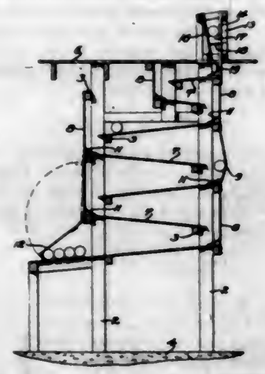
1,694,514. FLOOR JOIST. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 9, 1924. Serial No. 736,679. 7 Claims. (Cl. 189—40.)



1. A floor joist including an integral metal U-bar beam with flanges extending upward from the web, and a wood strip bodily clamped by and between the flanges of the U-bar.

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1,694,515. LOWERVATOR. WILLARD H. NUTTING, Oakland, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Aug. 10, 1927. Serial No. 211,993. 2 Claims. (Cl. 193—27.)

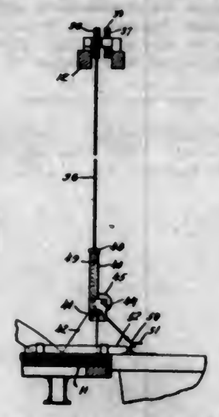


1. In a lowervator, a frame, a vertical series of inclined guideways supported on said frame so that adjacent guideways slope in opposite directions, resilient means secured to the side of the frame terminating above the lower end of the bottom guideway and adjacent the upper end of the guideway above the bottom guideway, and a trap pivotally mounted adjacent the upper end of the guideway above the bottom guideway and adapted to rest on the bottom guideway in closed position and against the resilient means in open position.

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1,694,516. FERRY BRIDGE. ARTHUR T. PRESCOTT, East Orange, N. J., assignor to J. Edward Ogden, Mountainville, N. Y. Filed Aug. 3, 1927. Serial No. 210,287. 4 Claims. (Cl. 14—42.)

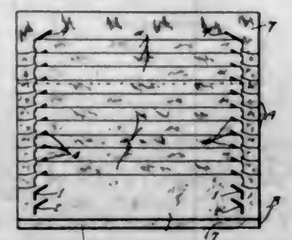
1. The combination with a ferry bridge of mechanism for mooring a ferry boat thereto comprising a single lifting and pulling element operatively connected to the bridge and to the boat and constructed and arranged to have a vertical lifting component and a horizontal pulling and mooring component, the portion of said element between



the bridge and the boat being disposed obliquely with relation to the portion of the element disposed above the connection to the bridge.

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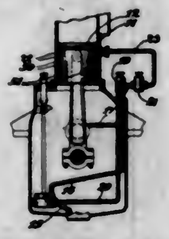
1,694,517. INDEX OR RECORD. HERBERT O. ROSS, St. Louis, Mo. Filed Nov. 5, 1924. Serial No. 747,936. 28 Claims. (Cl. 129—16.)



1. A sectional record including a plurality of separate sections each provided with a pair of horizontally aligned and opposed tongues and a pair of horizontally aligned and opposed obtuse-angular slots and adapted for interengagement at said tongues and slots in an imbricated series.

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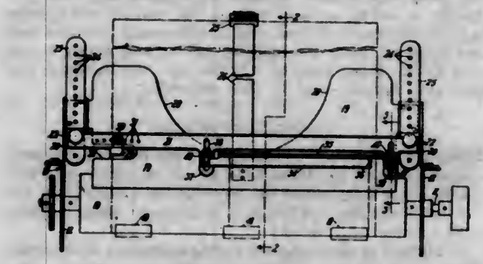
1,694,518. ENGINE-LUBRICATING SYSTEM. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Oct. 9, 1924. Serial No. 742,636. 10 Claims. (Cl. 74—108.)



1. An internal combustion engine, including a cylinder and piston and a pressure feed oiling system for the engine and, in combination with said parts, means for supplying oil about the surface of the piston at a level near but below the lowermost point swept by the top piston ring thereof during periods of excessive oil pressure, and means removing excess of such oil from the piston surface below said ring.



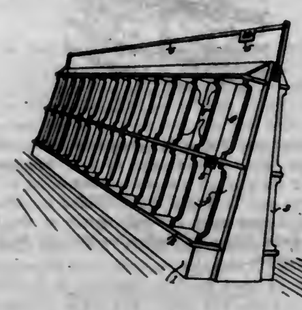
1,694,519. TYPEWRITING MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 16, 1924, Serial No. 737,961. Renewed July 17, 1926. 18 Claims. (Cl. 197—127.)



1. In a typewriting machine, the combination with a platen and writing instrumentalities, of a knife for severing web-sections, means for adjusting the knife toward and from the platen to position it in registration with the leading edge of a web-form having its first writing line at the line of writing of the machine, and a leading-edge gage adjustable to position it a form-length in advance of the knife, the arrangement being such that the leading-edge gage is effective simultaneously to locate the leading web-form for severing and the second web-form for typing.

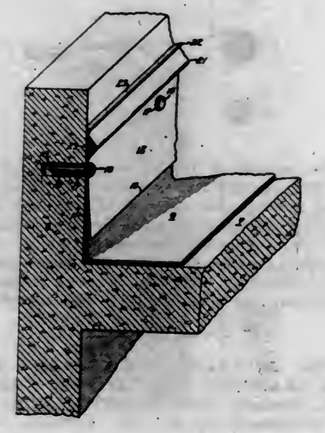
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1,694,520. SHELVING. CHARLES E. STURDAVANT, Wichita Falls, Tex. Filed Mar. 19, 1928. Serial No. 262,630. 1 Claim. (Cl. 211—134.)



In a store shelving, the combination with spaced vertical end members, relatively high and narrow, each of said end members havig substantially the shape of an inverted V with their opposite edges inclined from the perpendicular and converging upwardly, of upper, lower and intermediate shelves extending between said end members, a plurality of spaced partitions between said end members and said shelves, forming a plurality of relatively high and narrow compartments, each of said partitions between the upper shelf and intermediate shelf having its front edge cut away from a point adjacent said upper shelf to a point adjacent said intermediate sheft, and each of said partitions between said intermediate shelf and said lower shelf having its front edge cut away from a point adjacent said intermediate shelf to a point adjacent said lower shelf, to give a pleasing bracket effect to the entire shelving and at the same time to permit light to enter each compartment freely to illuminate the goods throughout the entire height of each compartment, said upper, intermediate and lower shelves being substantially parallel with each other and substantially at right angles to said inclined edges of said end members, all of the said shelves being thus inclined to prevent forward tilting of the goods and also to bring the display of goods in more direct line of vision of a person passing down said passage on either side of said shelving.

1,694,521. FLASHING STRUCTURE. EDGAR M. TUCKER, South Pasadena, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Jan. 17, 1927. Serial No. 161,492. 3 Claims. (Cl. 108—26.)



3. A counterflashing comprising a strip of sheet metal adapted for fastening to a wall over the exposed ends of a covering, and having adjacent its upper edge a longitudinally disposed outwardly extending corrugation having its upper ridge adapted to lie against the wall to provide a recess between the strip and the wall for the reception of a plastic sealing material.

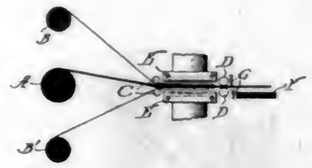
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1,694,522. FLUSH DOOR. FRANK VICTOR, Ridgway, Pa. Filed Mar. 26, 1928. Serial No. 264,903. 11 Claims. (Cl. 20—35.)



1. In a door of the class described, a core frame, an edging frame, the said frames each comprising members having interlocking parts for holding the same assembled to form the respective frame, and certain of the members of the two frames having interlocking parts for holding the frames mutually assembled, and panels extending over the opposite sides of the assembled frames and having interlocking engagement with one of said frames.

1,694,523. WATERPROOF SHEET STRUCTURE. JOHN F. WHITE, Chicago, Ill., assignor to White Products Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1924. Serial No. 731,357. 6 Claims. (Cl. 154—2.)



6. The method of forming structural board which comprises disposing flexible non-adhesive surfacing sheets upon opposite non-adhesive surfaces of a flexible sheet of felt having an impregnation of adhesive water-repellant material, then compressing the sheets together and applying heat thereto to compact the felt and express water-repellant material therefrom into the surfacing sheets to form a uniting bond and water-resisting filler therefor.

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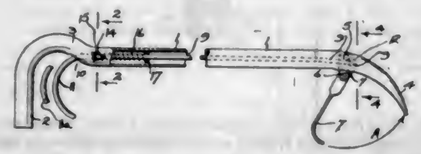
1,694,524. APPARATUS FOR KNEADING AND FORMING AMALGAMS. KARL ZENTNER, Frankfort-on-the-Main, Germany. Filed Dec. 29, 1926, Serial No. 157,854, and in Germany Dec. 31, 1925. 3 Claims. (Cl. 83—10.)



3. An apparatus for forming amalgams, comprising an upper member having a longitudinal bore, a lower member having a telescopic engagement with the upper member, means for locking the members together against longitudinal motion but permitting independent rotatory motion of the respective members, and a piston fitted in the bore of the upper member and having a rod provided with threads on its lower end engaging the threads in the bore of the lower member, whereby rotation of the upper and lower members in opposite directions will move the piston in the bore of the upper member to regulate the cubical capacity of the bore above the piston, and also to discharge the finished amalgam from the bore.

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1,694,525. TONGS. BERNARD J. BLOEMSMA, Wayne, Mich. Filed Dec. 27, 1927. Serial No. 242,565. 1 Claim. (Cl. 294—11.)



Tongs comprising a tubular member having a fixed jaw at one end and a handle at the other and having an opening therethrough, a movable jaw pivotally mounted at the inner end of said jaw and having its outer end adapted to close against the outer end of said fixed jaw, an operating rod having one end attached to said movable jaw, extending intermediately through said tubular member, passing through said opening and terminating in a handle adjacent said first named handle, the sides of said tubular member being cut to form opposed stops which are flexed inwardly, a spring around the rod one end of which rests against said opposed stops and an enlargement around said rod against which the opposite end of said spring bears, said spring being adapted to force said rod forward and hold said movable jaw in open position.

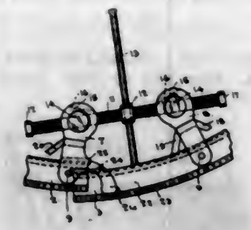
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1,694,526. DYEING. ALBERT BODMER, Wattwil, Switzerland, assignor to Heberlein & Co. A. G., Wattwil, Switzerland, a Corporation of Switzerland. Filed July 10, 1926, Serial No. 121,736, and in Germany July 14, 1925. 13 Claims. (Cl. 8—5.)

1. Method of modifying the dyeing properties of cellulosic fibers which consists in acting on the same with a phosphorus compound capable of making the cellulosic fibers relatively immune to substantive dyestuffs and relatively attractive to basic dyestuffs.

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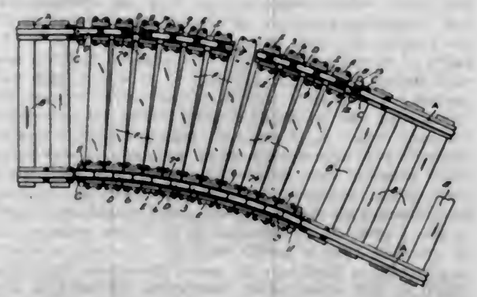
1,694,527. DEMOUNTABLE-RIM TOOL. WILLIAM N. BOOTH, Detroit, Mich. Filed Aug. 21, 1922. Serial No. 583,338. 6 Claims. (Cl. 157—1.)



1. In a rim tool for a transversely split rim having a side flange, the combination with a member secured to one end of the rim, of a member connected to the other end of the rim and having a lug arranged to extend at the side of and fulcrum upon the side flange at the first mentioned end of the rim, and means for moving said members toward each other.

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1,694,528. FLEXIBLE RAILWAY TRACK. JOHN L. CLARKSON, Nashville, Ill. Filed July 18, 1928. Serial No. 293,619. 10 Claims. (Cl. 238—10.)



1. A flexible railway comprising rail sections, rail chairs interposed between adjacent rail sections, and means for mechanically interlocking said chairs with the adjacent ends of said rail sections, whereby said rail sections and said rail chairs are capable of relative endwise sliding and vertical and horizontal swinging movement.



1,694,529. ANTIOXIDANT OR AGE RESISTER. ALBERT M. CLIFFORD, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 13, 1927. Serial No. 239,807. 10 Claims. (Cl. 18—53.)

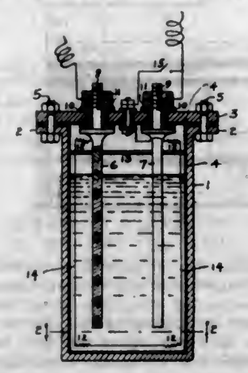
1. A rubber product containing a material having the formula—

$$R{-}\underset{\displaystyle H}{\underset{|}{N}}{-}R_1$$

in which R and $R_1$ are similar naphthylene radicals.

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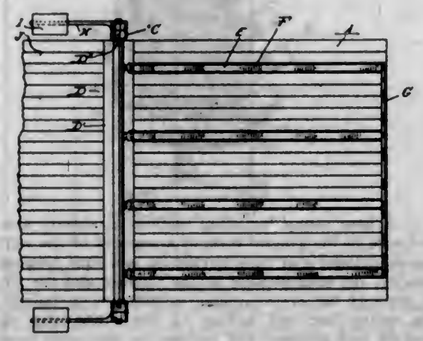
1,694,530. CATALYTIC AGENT IN STORAGE BATTERY. DEAN W. DAVIS, Elmhurst, Ind., assignor to Albert L. New, Greenfield, Ind. Filed Aug. 5, 1927. Serial No. 210,765. 2 Claims. (Cl. 136—179.)



1. In an electric accumulator subject to tilting and inversion, electrodes, a more or less liquid electrolyte from which gases may be evolved, a sealed holder and a catalyst for promoting the combining of said gases distributed to such positions within the holder that at least one portion of the catalyst will be unsubmerged in any and all positions of the accumulator.

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1,694,531. TURNING TABLE FOR SKIN-DRYING PLATES. ELLIS A. DE GRAFF, Detroit, Mich., assignor to Leather Makers' Process Company, Detroit, Mich., a Corporation of Michigan. Filed June 18, 1923. Serial No. 646,221. 3 Claims. (Cl. 149—12.)



1. The combination with a platform having two sections, one of said sections having grooves and each corresponding in area to a skin mounting plate, of a rock shaft extending between said sections, arms projecting from said rock shaft and engaging said grooves in one section of said platform, and means for rocking said shaft to turn the plate from the grooved section of the platform onto the other section.

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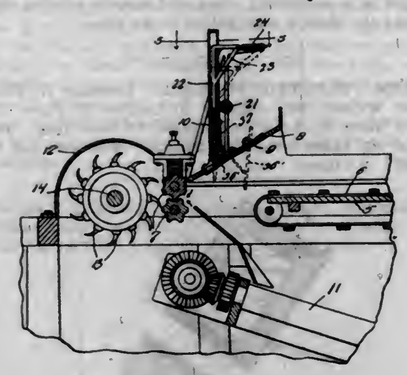
1,694,532. REFRIGERATING APPARATUS. FRENCH E. DENNISON, Beloit, Wis., assignor to National Refrigeration Corporation, Beloit, Wis., a Corporation of Delaware. Filed July 21, 1926. Serial No. 123,992. 11 Claims. (Cl. 257—250.)



4. A refrigerating unit comprising a casing having a chamber formed therein, said chamber comprising a plurality of uniformly spaced spiral passages of gradually varying pitch whereby said refrigerant is unequally distributed over said unit for maintaining the unit at a uniform temperature throughout.

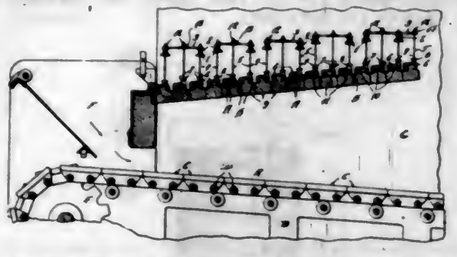
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1,694,533. SNAPPING-ROLL CLEANER. THOMAS H. DILLON, Jr., Greeley, Nebr. Filed Jan. 31, 1928. Serial No. 250,813. 6 Claims. (Cl. 180—5.)



1. In a snapping roll cleaner, a plunger, yieldable means to normally elevate said plunger, manually operable means to lower said plunger, and means to automatically tilt said plunger when lowered, for causing the lower end of the plunger to move away from the snapping rolls.

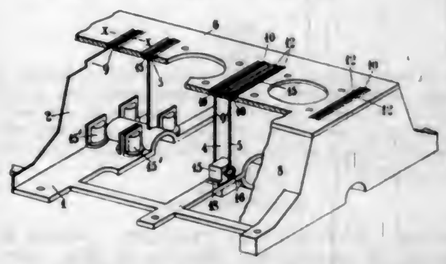
1,694,534. FURNACE ARCH. WILLIAM M. DUNCAN, Alton, Ill. Filed June 13, 1921. Serial No. 477,054. 1 Claim. (Cl. 110—99.)



An inclined heat-radiating arch comprising heat-radiating blocks separated from each other to permit expansion thereof, and suspension members, each supporting only one of said blocks, each of said suspension members and the center of gravity of the block supported thereby being vertically alined and at an oblique angle to the face of the block.

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1,694,535. CRANK AND LIKE CASE. EUGÈNE FEJES, Budapest, Hungary. Original application filed Sept. 5, 1923, Serial No. 661,110, and in Germany Oct. 13, 1922. Divided and this application filed Aug. 12, 1926. Serial No. 128,868. 6 Claims. (Cl. 189—36.)



1. In combination, thin and comparatively thicker plates lying at right angles to one another and connecting means between such plates, said connecting means including a metal block having a screwthreaded hole adapted to be engaged by a connecting screw and narrow welding fillets whereby the block is edge-welded to the plates.

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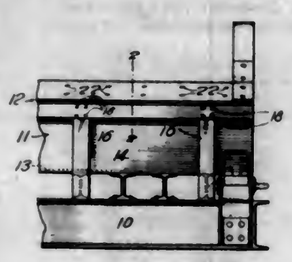
1,694,536. ELECTRIC FURNACE. CHARLES B. FOLEY, Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 13, 1920, Serial No. 365,633. Renewed Apr. 14, 1927. 2 Claims. (Cl. 266—1.5.)



1. In a furnace of the tilting type, the combination of a tapping device including movable means for opening and closing the outlet and a gas inlet extending through the side walls of the furnace and so located that, during normal operation, the tapping device is above the surface of the melt while the gas inlet is below the surface of the melt.

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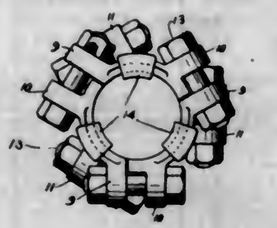
1,694,537. BOX-GIRDER CONSTRUCTION FOR CAR BODIES. GEORGE D. FRAUNFELDER, Easton, Pa., assignor to Easton Car & Construction Company, Easton, Pa., a Corporation of Pennsylvania. Original application filed Apr. 25, 1925, Serial No. 25,866, now Patent No. 1,609,807, dated Dec. 7, 1926. Divided and this application filed Nov. 9, 1926. Serial No. 147,232. 4 Claims. (Cl. 105—272.)



1. A reinforcing edge for metallic car bodies comprising, a plurality of transversely spaced supporting beams, each of said beams extending completely along the bottom and sides of the car, conforming to the contour thereof and secured thereto, the outer edge of said body being provided with a transverse and outwardly extending member integrally formed with respect thereto and extending the substantial distance of the thickness of said supporting beams and further provided with an integrally formed and downwardly bent portion and means for securing it to said supporting beams.

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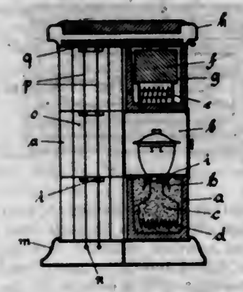
1,694,538. HOSE CLAMP. HOWARD W. GOODALL, Aldan, and JOSEPH W. WALSH, Philadelphia, Pa. Filed June 26, 1928. Serial No. 288,325. 5 Claims. (Cl. 24—19.)



1. A hose clamp including sections circularly arranged and each in the general form of a segment of the wall of a hollow cylinder and each having on one edge tongues and grooves, the ends of some of the tongues and the bottoms of some of the grooves being at different distances from the center line and having on the other edge similar tongues and grooves, the tongues on one edge being opposite the grooves on the other edge whereby tongues match up with grooves in the assemblage, each segment having outwardly extending bolt lugs arranged in parallel transverse planes and the lugs in one plane being staggered in respect to the lugs in another plane, the lugs being disposed at the roots of the tongues and at the bottoms of the grooves and to one side thereof, and bolts engaging the confronting lugs of adjacent sections.



1,694,539. ELECTRICALLY-HEATED TILE STOVE. FRANZ GRAF, Baden, Switzerland. Filed June 26, 1924, Serial No. 722,611, and in Switzerland July 3, 1923. 6 Claims. (Cl. 219—35.)



1. An electrical heating stove comprising a plurality of interchangeable rectangular cup-shaped units, each of said units containing a heating element and being filled with granular material, and a plurality of connecting means on the sides of each of said units coacting with corresponding connecting means on adjacent units.

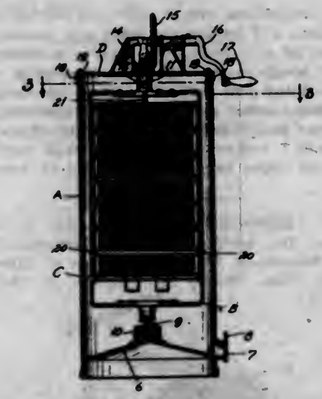
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1,694,540. SINTERED MAGNESITE BRICK AND METHOD OF MAKING THE SAME. KARL HARR, Horde, Germany. Filed Nov. 10, 1923, Serial No. 674,002, and in Germany Nov. 14, 1922. 3 Claims. (Cl. 106—9.)

1. The method of producing sintered magnesite refractory material, which comprises mixing relatively pure natural magnesite with aniline oil residues and sintering the mixture.

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1,694,541. HONEY EXTRACTOR. GEORGE Y. HARRY, Wapakoneta, Ohio. Filed Sept. 3, 1927. Serial No. 217,513. 4 Claims. (Cl. 210—65.)

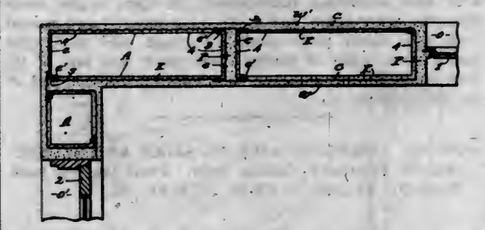


1. In a honey extractor a rotatable rack; a comb-holding frame pivotally mounted in said rack; and a latch mounted in said rack and arranged to hold said frame in alinement with said rack; with means for rotating said rack.

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1,694,542. METHOD OF AND MEANS FOR CONSTRUCTING BUILDINGS. VERN D. HEDDEN, Santa Barbara, Calif. Filed May 25, 1926. Serial No. 111,535. 6 Claims. (Cl. 72—16.)

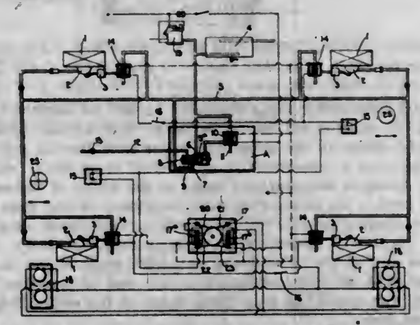
1. The method of constructing a hollow concrete wall which consists in disposing parallel sheets of perforated metal edgewise on a foundation, tying said sheets together and to said foundation, supporting sheets of paper or the like in spaced positions from and on adjacent sides of said



metal sheets to form a backing, and applying a cementitious material to the exterior of and through said metal sheets to form a body of substantial thickness on opposite sides of said metal sheets.

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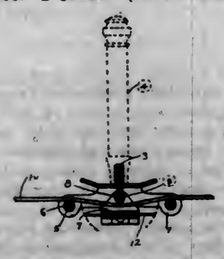
1,694,543. APPARATUS FOR OPERATING AND CONTROLLING THE DOORS OF TRAMWAY OR LIKE VEHICLES. HORACE REGINALD HOCKLEY and HEDLEY BERTRAM WHITE, Slough, England, assignors to The National Pneumatic Company, New York, N. Y., a Corporation of West Virginia. Filed July 26, 1927, Serial No. 208,540, and in Great Britain Sept. 8, 1926. 9 Claims. (Cl. 303—6.1.)



3. In a door control system for vehicles, the combination with door operating motors for the entrance and exit doors of the vehicle, a fluid pressure source, connections between said source and motors including electro-magnetic valves, circuits for said valves including switches operated by the main power controller, an interlock switch included in said circuits and controlled by said switches whereby the exit door is opened automatically when the main power controller is turned to off position, and a fluid pressure operated means connected to said fluid pressure source and in said circuits whereby the doors are free for operation by hand when there is a failure of fluid pressure from the source.

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1,694,544. RAZOR-BLADE SHARPENER. CHARLES L. JAMES, San Francisco, Calif. Filed Nov. 4, 1925. Serial No. 66,700. 1 Claim. (Cl. 51—153.)

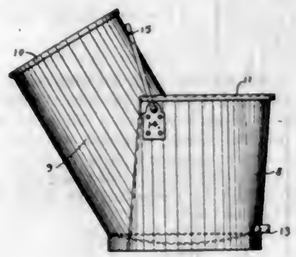


In a razor blade sharpening device of the character described, a tiltable blade holding carriage, said carriage

being provided with an under and outer plate adapted for clamping the blade therebetween, the outer plate being hinged to the under plate and the under plate provided with ends extending substantially at right angles away from the outer plate, and a bar lying parallel and spaced from said under plate passing through said ends, said under plate being of spring sheet metal and one of its ends split to form a spring lip overlying the free end of the outer plate.

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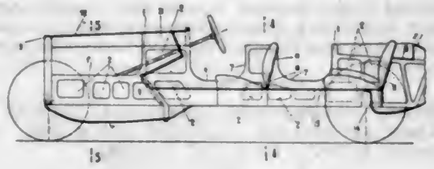
1,694,545. COMBINED MILKING STOOL AND BUCKET. JENS M. JOHANSEN, Omaha, Nebr. Filed Jan. 16, 1928. Serial No. 247,052. 1 Claim. (Cl. 31—51.)



In a combined milking stool and bucket, an upright oval body of sheet-metal having a cover and bottom permanently affixed to the upper and lower ends thereof respectively, and a substantially cylindrical sheet-metal spout of a diameter substantially equal to the width of the body and having its lower rear portion affixed to the body to form continuous side-walls therewith, said spout extending diagonally upward and forward from the body, the upper end of the spout being above the level of the body-cover, and the vertical extent of the line of junction between the spout and body being equal to the entire height of the body.

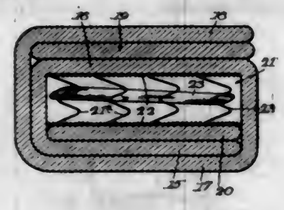
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1,694,546. MOTOR CAR. VINCENZO LANCIA, Turin, Italy. Filed May 10, 1923, Serial No. 638,058, and in Italy June 28, 1922. 2 Claims. (Cl. 296—28.)



1. Motor car structure comprising two sides of sheet metal extending from end to end of the final structure with flanges along their lower edges in their middle portion, said sides being connected together by transverse members including a radiator frame, seat back supports and a transverse channel member providing space for the car rear axle, and a longitudinal channel member providing passage for a shaft connecting the car engine and rear axle, the edges of said longitudinal channel member forming projecting flanges cooperating with said flanges of said sides for supporting footboards.

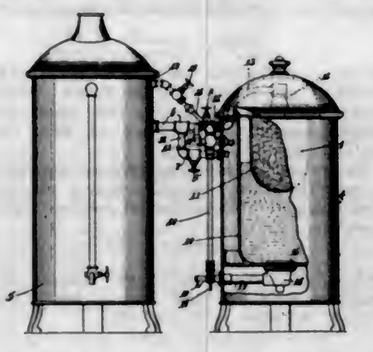
1,694,547. PILLOW. FRANCIS KARR, Holland, Mich. Filed Dec. 4, 1926. Serial No. 152,579. 5 Claims. (Cl. 5—337.)



2. In combination, a pad having a body portion provided with wings attached to opposite side edges of said pad in staggered relation, whereby said wings and body portion may be folded into a compact bundle to form a pillow, and a resilient unit enveloped in the folds of said wings and body portion.

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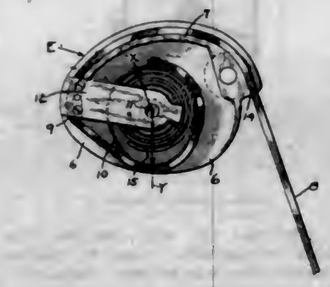
1,694,548. COFFEE URN. HENRY MARCUSON, Chicago, Ill. Filed Feb. 23, 1928. Serial No. 256,154. 4 Claims. (Cl. 53—3.)



1. In combination with a coffee urn having an exterior coffee gauge, a T having the lower arm connected to the upper end of said gauge, the upper arm connected to a source of steam or other pressure exterior to said coffee urn; the third arm connected to an upturned pressure vent having a collar surrounding said vent and extending thereabove; and a delivery tube positioned in the upper arm of said T and extending therethrough into the upper end of said coffee gauge, substantially as described.

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1,694,549. REBOUND CHECK. NORRIS F. MCNAUGHT, Chicago, Ill., assignor to Cross Manufacturing Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 8, 1924. Serial No. 754,502. 7 Claims. (Cl. 267—10.)



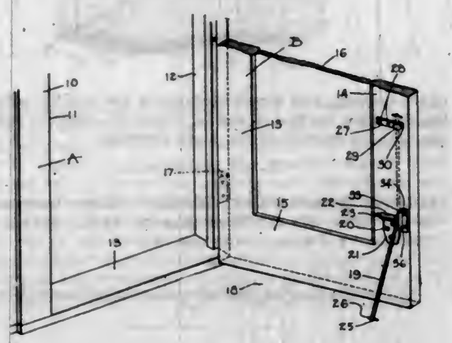
1. In combination with a body and a spring support therefor, a rebound check fixedly secured to the one and



having a flexible connection with the other, the rebound check including in its structure a spring-operated cam whereon the flexible connection is adapted to wind, and a friction wall over which the flexible connection is required to travel, the cam having an oval form with its axis of rotation equidistant from the major portion of its periphery, and the flexible connection passing to the wall from the cam at a point of maximum radius when the parts are in normal working position.

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1,694,550. DOORSTOP. GUY G. MELLEM, Minneapolis, Minn. Filed July 8, 1927. Serial No. 204,307. 6 Claims. (Cl. 292—338.)



1. A door stop comprising a mounting, said mounting being formed with a transverse bearing, a rod, a pintle formed on said rod and swingably mounted in said bearing, a keeper for engagement with said rod, said rod being laterally movable for engagement with said keeper, said pintle being transversely movable within said bearing to permit of the lateral movement of said rod for engagement with said keeper.

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1,694,551. DISPLAY DEVICE. REGINALD B. MELLER, Alameda, Calif., assignor to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Dec. 26, 1924. Serial No. 758,071. 4 Claims. (Cl. 211—157.)

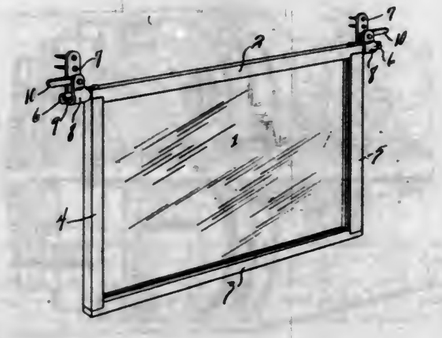


1. A display device comprising a single sheet having opposite ends joined and provided with creases to form a plurality of panels, and a plane portion forming a mounting for an object, said portion being partially severed from more than one of said panels and united thereto along a crease spaced within the front panel.

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1,694,552. GLARE SHIELD FOR MOTOR VEHICLES. SAMUEL A. MENCZER, Fort Worth, Tex. Filed May 7, 1927. Serial No. 189,644. 1 Claim. (Cl. 296—84.)

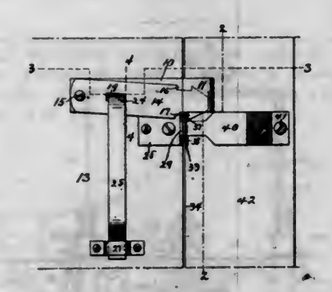
A glare shield for motor vehicles comprising a stained plate and a frame therefor, pivot lugs rigid with said frame and provided with grooves in the ends thereof, hooked bearing brackets for pivotally attaching the shield to a motor vehicle frame, latches adapted to engage the



grooves in said lugs for holding said shield at different positions, and pivot bolts projected through said brackets and their beaks for pivotally connecting said latches to said brackets.

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1,694,553. BARN AND GARAGE DOOR LATCH. GEORGE R. MOSS and ROBERT D. PARKS, Lohrville, Iowa, assignors to J. J. McCulloch, Pomeroy, Iowa, and Silas C. Sweet, Des Moines, Iowa. Filed Oct. 30, 1926. Serial No. 145,195. 4 Claims. (Cl. 292—236.)



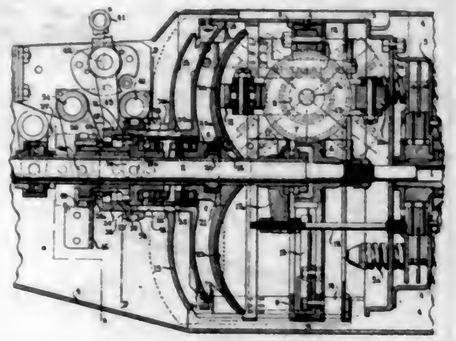
1. A barn and garage door latch, comprising a base plate formed with an opening and a curved, overlapping end portion, a latch plate pivoted on said base plate and formed with a slot extending across said opening at times, one end of said latch being received under said overlapping end portion, a lift member extending through said opening and slot and arranged for oscillation therein, and a handle integral with said lift member and depending from one end portion thereof.

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1,694,554. VARIABLE-SPEED GEAR AND REVERSE FOR MOTOR VEHICLES AND OTHER MACHINES. HUGH BARTON MURRAY, Wellington, New Zealand. Filed Aug. 10, 1927, Serial No. 212,072, and in New Zealand June 21, 1927. 9 Claims. (Cl. 74—34.)

1. In a speed gear and reverse mechanism for motor vehicles and other machines, comprising a driving shaft, a driven shaft, a rotary member surrounding the latter and adapted to rotate with the driving shaft, skew gears carried by the rotary member and the driven shaft, selectively operative means for preventing relative rotation of the skew gears whereby the driving and driven shaft ro-

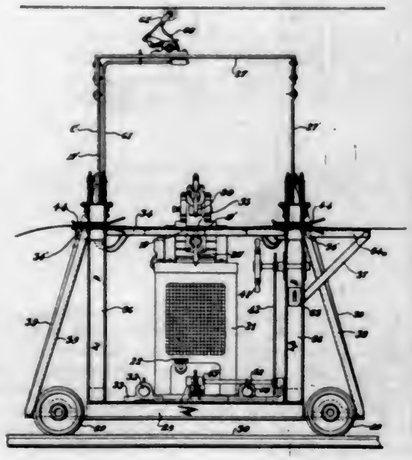
tate together at the same speed, or for driving the skew gearing while the same is being rotated with the driving shaft, so as to vary the speed of rotation of the driven



shaft and means to vary the position of the skew gearing to effect a reversal of the turning movement of the driven shaft.

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1,694,555. WELDING MACHINE. HARRY M. NAUGLE and ARTHUR J. TOWNSEND, Canton, Ohio, assignors, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 18, 1926. Serial No. 136,360. 5 Claims. (Cl. 219—4.)

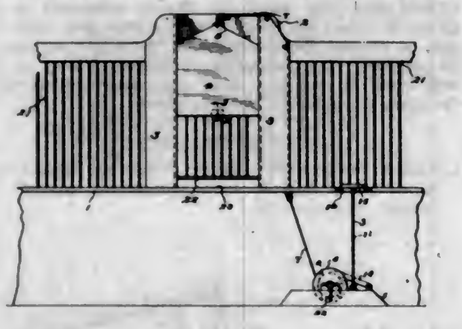


1. A welding machine including a reciprocating carriage, welding means operatively mounted upon the carriage, and strip gripping means operable independent of the welding means, and connected to the carriage.

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1,694,556. SAFETY DEVICE FOR BANKS. GEORGE W. NEELY, Santa Ana, Calif. Filed Feb. 24, 1927. Serial No. 170,654. 2 Claims. (Cl. 268—2.)

1. In a protective device for banks including a counter, a window frame adjacent the counter, a plate slidable in the frame, a drum, a cable connecting the plate and drum, said counter having an opening therein, means for holding the drum against rotation and the cable wound thereon to normally hold the plate in an elevated position, a tray



in the opening, and means operable by the tray for actuating the drum holding means to release the same to permit the cable to unwind as the plate descends.

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1,694,557. FLANGEWAY GUARD. HENRY OETTINGER, Jersey City, N. J. Filed Aug. 3, 1927. Serial No. 210,240. 6 Claims. (Cl. 238—9.)



1. In a track structure the combination with a track rail and a flangeway guard comprising a guard member of standard rolled section and supporting members therefor, consisting of bracket members formed with a bearing opening for the reception of the guard member and having flange bearing portions formed to engage the track rail and a base flange portion adapted for securing the bracket to a tie, and said base flange portion being spaced from the track rail to porvide clearance for the usual tie plates.

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1,694,558. TOOL CHUCK. EDWARD J. O'FLAHERTY, Lakewood, Ohio. Filed Sept. 18, 1926. Serial No. 136,254. 7 Claims. (Cl. 279—65.)

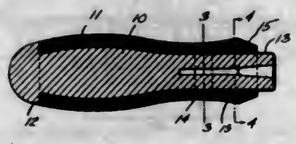


1. In a chuck, a body member, a boss on said body member, said boss having a tapered face provided with a plurality of tapering cam faces, said body member being provided with a plurality of tapered faces, the tapered faces of the boss and the body member being formed on the same angle, a plurality of jaws having sliding engagement in a longitudinal direction with the tapered faces of the body member and means on said jaws cooperating with the tapering cam faces for holding said jaws against sliding movement.



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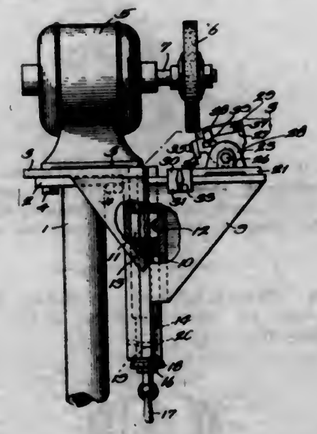
1,694,559. TOOL HANDLE. JOHN L. OSGOOD, Buffalo, N. Y. Filed Dec. 26, 1925. Serial No. 77,677. 12 Claims. (Cl. 145—61.)



12. A tool handle comprising a core of wood or the like having a tang-receiving hole extending in a lengthwise direction from one end, a reinforcing ring surrounding said core at a point over said hole and spaced inwardly from said one end, a ferrule surrounding said core at said one end and extending along said core for some distance, and a grip of plastic material moulded over said core, ring, and inner end of said ferrule, and secured to said core by hardening, the inner end of said ferrule at its periphery having abutments over which said material is moulded to mechanically interlock said ferrule to said grip.

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1,694,560. MACHINE TOOL. FRANK P. PARISH, Chicago, Ill. Filed Nov. 23, 1927. Serial No. 235,272. 1 Claim. (Cl. 51—220.)

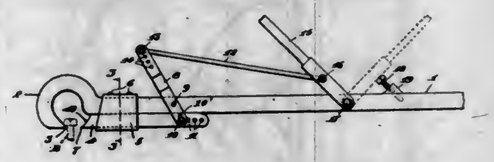


A work support in combination with a screw for adjusting the position of the work support; a block having threaded engagement with the screw and non-rotative engagement with the work support; a bearing sleeve for the screw, said sleeve and screw having interengagement preventing their relative movement longitudinally of their common axis; and a support for said bearing sleeve and in which said sleeve may be turned and with which said sleeve has cam connection enabling said sleeve and screw to be moved simultaneously along their common axis.

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1,694,561. BOLT AND ROD CUTTER. OLIVER B. PICKETT, Long Beach, Calif. Filed May 31, 1927. Serial No. 195,339. 2 Claims. (Cl. 81—204.)

1. In a rod cutter, an elongated main member provided with a hook-shaped cutting jaw at one end, a slidable jaw to cooperate with said hook-shaped jaw, a guide for said slidable jaw mounted on said main member, an intermediate lever pivoted to said main member and having one of its ends adjustably pivoted to said slidable jaw, a link pivoted to the other end of said lever, a hand lever



pivotally connected near one end with said link, that end of said hand lever being pivotally secured to said main member, and an adjustable stop mounted on said main member to arrest the movement of said hand lever when the cutting elements are in a predetermined proximity to each other.

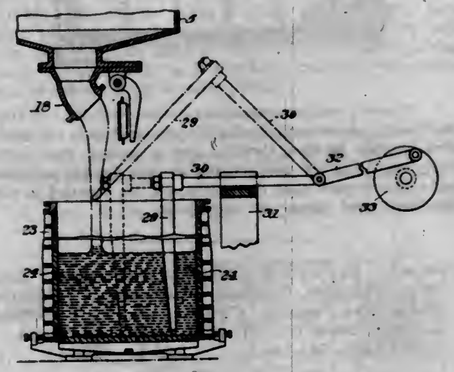
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1,694,562. PROCESS OF PRODUCING DYEINGS FAST TO LIGHT. PAUL RABE, HERMANN STÖTTER, and BERTHOLD WENK, Leverkusen-on-the-Rhine, and WILHELM SCHERER, Wiesdorf-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 15, 1926, Serial No. 155,101, and in Germany Dec. 22, 1925. 16 Claims. (Cl. 8—5.)

1. In the process of dyeing fiber the step which comprises precipitating on the fiber by means of an organic fixator a complex acid containing at least one metal of the group including molybdenum and tungsten.

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1,694,563. METHOD OF MOLDING CERAMIC MATERIALS. DONALD W. ROSS and JAMES M. LAMBIE, Washington, Pa. Filed Feb. 2, 1927. Serial No. 165,324. 13 Claims. (Cl. 25—156.)



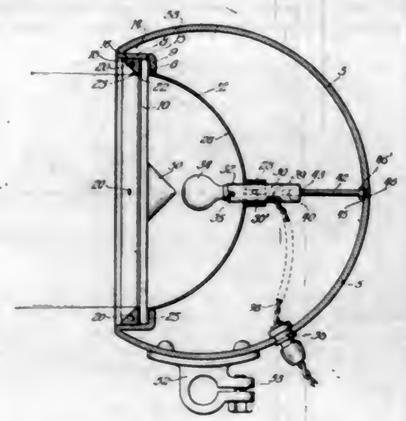
1. The method which comprises introducing deflocculated plastic ceramic material into a mold and simultaneously vibrating the material.

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1,694,564. LAMP. HARRY W. SISSON, Hammond, Ind. Filed May 16, 1927. Serial No. 191,611. 6 Claims. (Cl. 240—41.)

1. In a lamp, a casing of spherical contour truncated forwardly of its center to form a light projection opening

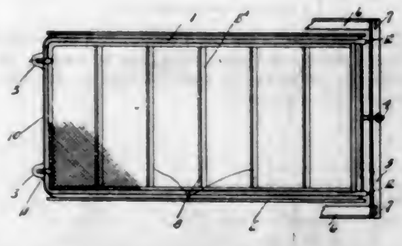
and having an inwardly extending mounting portion, a radial shoulder at the inner end of said inwardly extending



portion, a bezel ring threaded from the front of the lamp into said inwardly extending portion, and a lens clamped between said shoulder and said ring.

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1,694,565. VIBRATORY SCREEN. LEWIS E. SOLDAN and GEORGE W. BEHNKE, Gladwin, Mich., assignors to Simplicity Engineering Company, a Corporation to be formed with offices at Durand, Mich. Filed Apr. 6, 1925. Serial No. 20,940. 1 Claim. (Cl. 209—275.)



A vibratory screen comprising a substantially rectangular frame, spaced apart slightly crowned bars of graduated heights secured therein, and a woven wire screen stretched thereover and secured to said frame, said bars being so arranged that the screen will be crowned in both horizontal and transverse directions.

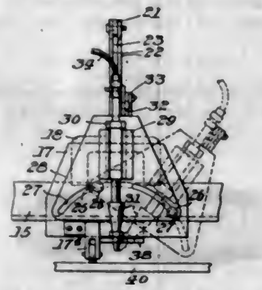
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1,694,566. EXPANDER FOR SEALING RINGS. DEAN M. SOLENBERGER, Cleveland, Ohio, assignor to Simplex Piston Ring Company, Cleveland, Ohio, a Corporation of Ohio: Filed Dec. 31, 1925. Serial No. 78,678. 3 Claims. (Cl. 74—109.)



2. An expander for a sealing ring comprising a resilient ribbon corrugated to form a series of spaced reverse curves having radii selected to produce in the operation of the expander a predetermined radial pressure, and intermediate portions tangent to said curves inversely variable to the radii thereof to maintain a substantially constant spacing between centers of curves.

1,694,567. METAL-CUTTING APPARATUS. SAMUEL BLAINE STINE, Osceola Mills, Pa. Original application filed June 25, 1926, Serial No. 118,506. Divided and this application filed Jan. 19, 1928. Serial No. 247,837. 5 Claims. (Cl. 266—23.)



1. Flame cutting apparatus for operating upon metal plates and the like, comprising a support, a slide plate mounted for vertical movement on said support, a second plate tiltably adjustable on the slide plate, a torch carried by the second plate, and means for moving said torch with respect to the last-named plate, in a direction parallel to the axis of the torch.

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1,694,568. AZO DYES AND PROCESS OF MAKING SAME. HERMANN WAGNER, Soden-on-the-Taunus, and HEINZ EICHWEDE and ERICH FISCHER, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Dec. 22, 1925, Serial No. 77,097, and in Germany Aug. 6, 1923. 6 Claims. (Cl. 260—70.)

5. As new products the dyestuffs of the general formula:



wherein R represents a non-sulfonated phenyl group, R' a non-sulfonated aryl residue, and X a non-sulfonated residue of the group including the benzene and naphthalene series being substituted by at least one auxochromic group.

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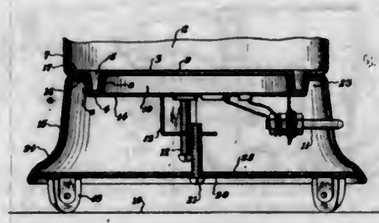
1,694,569. SWITCH. ARTHUR E. WALSH, Chicago, Ill. Filed Sept. 14, 1925. Serial No. 56,128. 5 Claims. (Cl. 200—67.)



1. A switch comprising, in combination, an open-top casing of insulating material, a metallic member bridging the top of said casing and having an ear depending into said casing, a spring carried between bearing surfaces on said ear, said bearing surfaces being spaced apart less than the length of said spring, an operating handle connected with said spring and extending beyond the top of said casing, a relatively stationary contact member mounted in said casing, and a relatively movable contact member operatively connected with said spring and adapted by the operation of said handle to be snapped into and out of contact with said relatively stationary contact member.



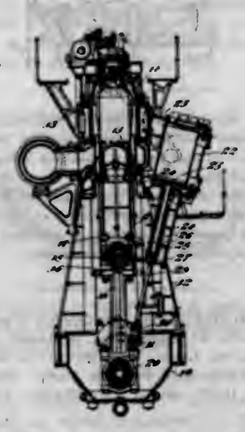
1,694,570. ENAMELED ELECTRIC PERCOLATOR. VERNER WATTS, Alliance, Ohio, assignor to The Sebring Manufacturing Corporation, Sebring, Ohio, a Corporation of Ohio. Filed Nov. 16, 1927. Serial No. 233,622. 5 Claims. (Cl. 53—3.)



1. A pot including a tubular side wall and a bottom wall, a tubular base secured at its upper end to the pot and spacing the pot bottom wall above its lower end, a water leg formed in the pot bottom and depending downwardly therefrom, the outer wall of the water leg being spaced inwardly from the tubular walls of the pot and base, and the inner wall of the water leg and a central plate of the pot bottom forming a downwardly opening cup, and a heating unit fitting snugly in the cup.

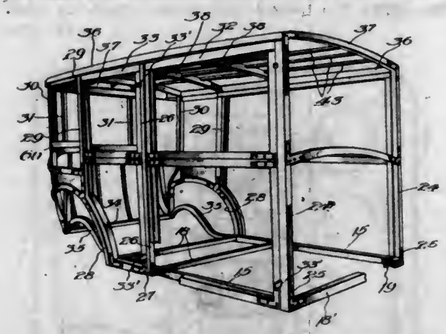
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1,694,571. COMPRESSOR DRIVE MECHANISM. ARTHUR JACKSON WEST, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa. Filed Sept. 25, 1925. Serial No. 58,644. 2 Claims. (Cl. 123—72.)



1. An internal combustion engine comprising an engine frame, a cylinder carried by the frame, a piston in the cylinder, cross head guides carried by the frame, a cross head connected to one end of the piston and fitting the guides, a crank shaft, a connecting rod pivotally connected to the cross head and to the crank shaft, a compressor cylinder disposed laterally of the engine cylinder and inclined toward the crank shaft, guides carried by said frame structure and arranged parallel to the axis of the compressor cylinder, a piston in the compressor cylinder, a piston rod connected to the compressor piston, a cross head carried by the outer end of said compressor piston rod and fitting the inclined guides, and a link pivotally connected at one end to the connecting rod between the cross head and crank shaft bearings and pivotally connected at its other end to the cross head of said compressor piston rod.

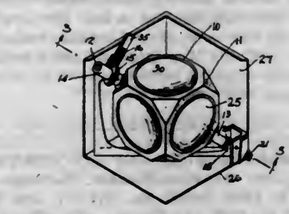
1,694,572. CLOSED ROAD-MOTOR-VEHICLE BODY. CHARLES TESRES WEYMANN, Paris, France. Filed Mar. 27, 1925. Serial No. 18,714. 14 Claims. (Cl. 296—28.)



1. In a road motor vehicle body, the combination of vertical posts, and a roof structure comprising side rails supported on said posts, a plurality of cross bows having grooves, fabric covering the cross bows, longitudinal pieces positioned over said fabric and in said grooves, padding distributed over said fabric, and a top finishing fabric stretched over said padding.

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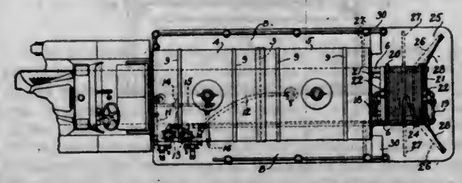
1,694,573. SIGNAL MECHANISM. EDWARD N. WINSLOW, Shaker Heights, Ohio. Filed Apr. 5, 1927. Serial No. 181,253. 12 Claims. (Cl. 116—63.)



1. In a signal mechanism, the combination of a supporting frame and a signaling element pivotally mounted in said supporting frame about an axis extending therethrough, said element being provided with adjoining faces lying in planes at identical angles with respect to said axis, and said axis being so disposed with respect to said faces that upon rotation it will bring said faces successively into substantially vertical planes.

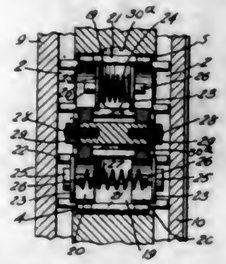
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1,694,574. MOTOR FIRE APPARATUS. WILLIS D. WITTER and JAMES A. HARTE, Utica, N. Y., assignors, by mesne assignments, to American La France and Foamite Corporation, a Corporation of New York. Filed Aug. 10, 1925. Serial No. 49,234. 2 Claims. (Cl. 169—24.)



1. A motor-propelled foam fire-extinguishing apparatus comprising in combination with a motor vehicle chassis, a two-compartment tank structure secured thereon with its center of gravity in advance of the rear wheels of the vehicle, a twin hose reel mounted in rear of said structure, a power driven pump, pipe lines connecting the tank compartments, pump and hose and a step platform depending from the chassis and extending beyond the side and end of the hose reel to provide access thereto either from the sides thereof or the rear end of the vehicle.

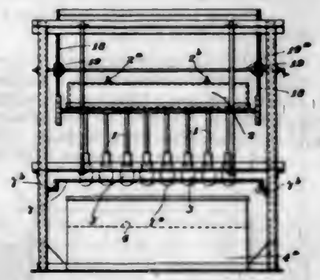
1,694,575. PUMP. ZENAS P. ADAMS, Little Falls, N. Y., assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Filed Feb. 17, 1927. Serial No. 168,962. 3 Claims. (Cl. 103—175.)



1. In a pump or the like, a casing having a plurality of bores from end to end, one of said bores forming a pump cylinder and another bore a valve pocket, a cover closing each end of the casing and permitting communication between corresponding ends of said bores, said casing having a passage leading to said valve pocket intermediate of its ends, a valve unit disposed in said valve pocket, and means carried by the ends of said casing, engaging with said unit, and confining it within said valve pocket independently of said covers to permit removal of either cover without releasing said unit.

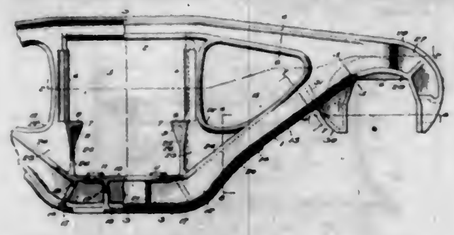
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1,694,576. MANUFACTURE OF CONFECTIONERY. WILLIAM ERNEST BAMFORD, Belfast, Northern Ireland. Filed Sept. 9, 1926, Serial No. 134,474, and in Great Britain Sept. 17, 1925. 23 Claims. (Cl. 107—1.)



7. A device for the manufacture of confectionery comprising an expansible and contractible member, means whereby said member may be expanded and contracted, a vessel adapted to contain soft confectionery material, mechanism for lowering said member into said confectionery material and for raising the said member, with a coating of confectionery material adhering thereto, clear of said vessel and an uprising flange on said member adapted to form an opening in said adhering confectionery material.

1,694,577. SIDE FRAME. DONALD S. BARROWS, Rochester, N. Y. Filed Aug. 20, 1927. Serial No. 214,303. 17 Claims. (Cl. 105—205.)



1. A side frame comprising a compression member, a tension member, struts interposed therebetween and spaced to leave a bolster opening, and stop portions extending toward each other from intermediate portions of said struts and comprising horizontal flanges serving as emergency supports for the bolster, said flanges being reinforced with respect to the struts by webs depending therebeneath and tapering to merge into said struts.

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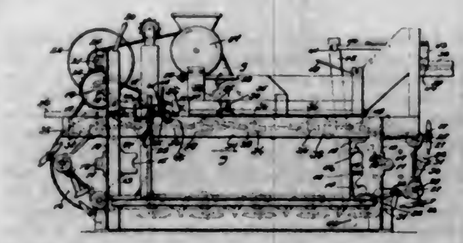
1,694,578. SWITCH. EARL T. BENNINGTON, Cleveland Heights, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a Corporation of Ohio. Filed July 2, 1927. Serial No. 203,063. 6 Claims (Cl. 104—102.)



1. A switch for overhead carrier systems comprising a supporting frame having a track section bodily movable laterally thereon to and from a position bridging the space between ends of fixed tracks, and a fixed safety rail substantially parallel with said track section when the same is in bridging position and positioned to cooperate with a carrier passing over said section to prevent movement of the section away from bridging position.

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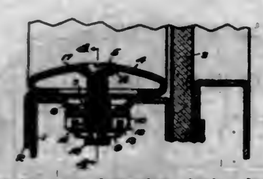
1,694,579. MACHINE FOR FORMING PLASTIC TILE. HOLDEN BROCK, St. Louis, Mo., assignor of one-half to James Brock, St. Louis, Mo. Substitute for application Serial No. 89,013, filed Feb. 18, 1926. This application filed Oct. 17, 1927. Serial No. 226,830. 7 Claims. (Cl. 25—42.)



1. In a machine of the class described the combination of a conveyor, a normally open-bottomed receptacle, palettes supported by the conveyor to form a bottom for the receptacle, a packer, a dam, a trowel, and a perforating device.



1,694,580. SHIFTABLE NUT FASTENING. FRED S. N. Y., assignor, by mesne assignments, to The Texas Company, Cambridge, Mass., a Corporation of Maine. Filed July 22, 1925. Serial No. 45,279. 4 Claims. (Cl. 85—32.)



1. A shiftable nut fastening device including a nut holder having resilient means for engagement with a suitable support and a shiftable nut assembled with said nut holder, said nut having a boss cooperating with lugs presented by said holder for limiting cross-wise movement of said nut relative to said resilient means.

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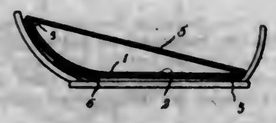
1,694,581. DEVICE FOR SHARPENING THE POINTS OF PENCILS. RAMON MARPONS CATÁ, Barcelona, Spain. Filed Dec. 23, 1927. Serial No. 242,241. 1 Claim. (Cl. 120—89.)



A device for sharpening leads of propelling pencils, comprising in combination a pair of hingedly connected metal jaws having each on the inner side a layer of abrading material, a rearward extension of each jaw bent in outward direction, a spring on the hinge connecting said two jaws the ends of said spring bearing against said extensions to spread the same, and an adjusting screw guided in one of said jaws and in the coating layer of the same adapted to adjust the angle at which said jaws open.

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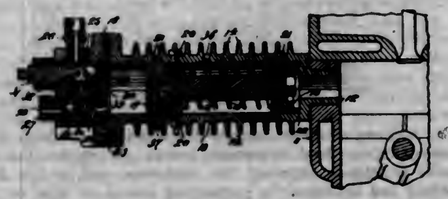
1,694,582. ARCH SUPPORTER. MILTON E. CHRISTIANSON, Jasper, Minn. Filed Apr. 16, 1928. Serial No. 270,345. 4 Claims. (Cl. 36—71.)



1. An arch supporter comprising a resilient frame, an elastic web folded around the frame and means for adjustably connecting the ends of the web.

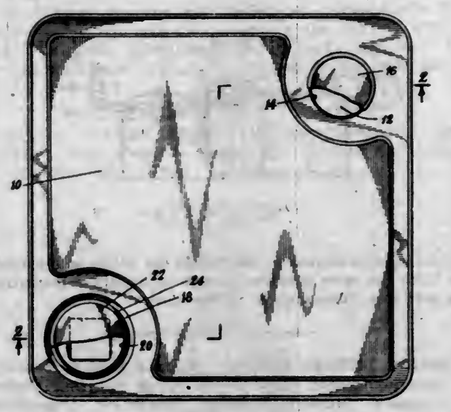
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1,694,583. AIR COMPRESSOR. ROSCOE D. CONKLIN, N. Y., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of West Virginia. Filed Dec. 23, 1924. Serial No. 757,582. 2 Claims. (Cl. 230—50.)



1. In an air compressor, a single cylinder, a double headed piston member in said cylinder, means mounted between the heads of said member for tensioning said double headed piston in one direction, and means for alternately opening and closing one end of said cylinder to the atmospheric air.

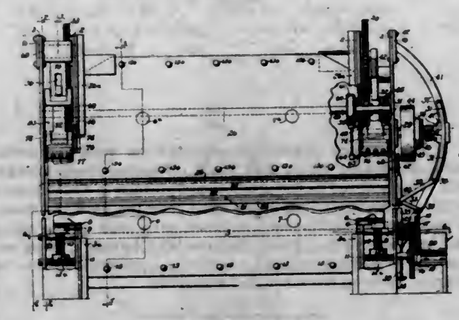
1,694,584. CONTAINER. RALPH CULLINAN, Richmond, N. Y., assignor, by mesne assignmens, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed May 19, 1926. Serial No. 110,081. 1 Claim. (Cl. 220—27.)



In a can top having a filling and pouring opening and a permanent closure therefor, a restricted area in the top of the can indicated by a depression spaced from the permanent closure and adapted to be punctured to provide a temporary refilling opening, a rim around the inner edge of the depression, and a cap adapted to fit over said rim and to be permanently secured thereon to close and conceal the temporary refilling opening.

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1,694,585. BENDING MACHINE FOR BENDING PLATES OR STRIPS OF SHEET METAL. HERMAN C. DREIS, Chicago, Ill. Filed Aug. 19, 1925. Serial No. 51,242. 10 Claims. (Cl. 153—21.)



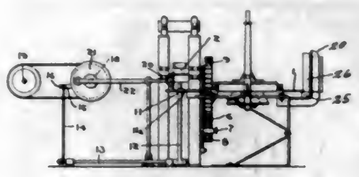
1. In a bending machine, parallel vertical plates, connecting pins extending through said plates, means to vertically adjust and maintain said plates in adjusted position, in combination with a die mounted on the upper edges of the outside ones of said plates, additional plates, connecting pins extending through said additional plates, a die mounted on the lower edge of the middle one of said additional plates, and means to move the said additional plates vertically.

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1,694,586. BRICK DELIVERING AND STACKING MEANS. LAURITZ NEILSEN DYHRBERG, Ashburton, New Zealand. Original application filed July 15, 1921, Serial No. 485,008, and in New Zealand Aug. 5, 1920. Divided and this application filed Nov. 8, 1924. Serial No. 748,702. 4 Claims. (Cl. 214—6A.)

1. Apparatus for dealing with bricks including in combination a hinged tray receiving bricks on the flat; a tiltable

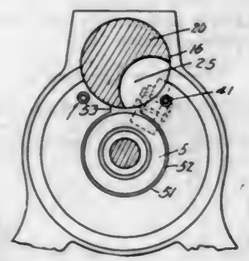
surface; means for tipping said tray and means for delivering the bricks on end and in rows on to said surface; a stop on said tiltable surface opposite the means delivering



bricks in rows thereonto; and means for tilting said surface to bring the rows of bricks thereon into stacked formation on said stop, substantially as described.

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1,694,587. ROTARY ENGINE. WILLIAM ELRICK, Toronto, Ontario, Canada, assignor to Elrick Rotating Engine Company, Limited, Toronto, Canada, a Corporation of Ontario. Filed Nov. 8, 1926. Serial No. 147,168. 3 Claims. (Cl. 121—71.)



1. In a rotary engine, the combination with the annularly chambered stator and shaft extending therethrough, of a rotor secured to the shaft and contained in the chamber of the stator, a revolving abutment coacting with the rotor, a packing ring interposed between each side of the rotor and the wall of the stator chamber and having a wing extension extending radially therefrom opposite the line of contact between the rotor and abutment.

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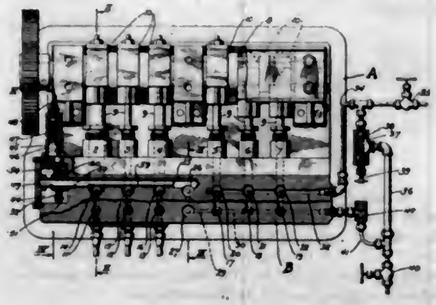
1,694,588. METHOD OF CURING CONCRETE. DOZIER FINLEY, Berkeley, and WILLIAM LAUREN RHOADES, San Francisco, Calif., assignors to The Paraffine Companies, Inc., San Francisco, Calif., a Corporation of Delaware. Filed Oct. 4, 1924. Serial No. 741,759. 5 Claims. (Cl. 94—24.)

2. The method of curing concrete which comprises overlaying the surface with a porous sheet containing water and covering said sheet with an impervious sheet.

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1,694,589. EMULSIFYING APPARATUS. GEORGE LEANDER FISH, Los Angeles, Calif., assignor to Raymond Salisbury, trustee, Oakland, Calif. Filed Nov. 25, 1925. Serial No. 71,505. 7 Claims. (Cl. 259—98.)

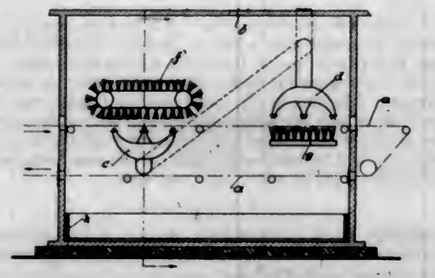
1. An apparatus for emulsifying liquids and the like, comprising means for measuring the liquids to be emulsified, means for mixing and impregnating the liquids with an expansible fluid, means for subjecting the impregnated mixture to high pressure, a discharge through which the mix-



ture is liberated and expanded, and means whereby a predetermined pressure on the impregnated mixture regulates delivery of the fluid and liquids to the apparatus.

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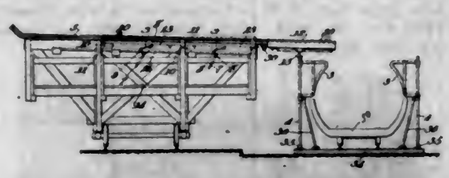
1,694,590. DEVICE FOR DISPOWDERING CONFECTIONERY. CARL GÖPEL, Halle-on-the-Saale, Germany. Filed Jan. 21, 1927, Serial No. 162,612, and in Germany Jan. 28, 1926. 3 Claims. (Cl. 107—44.)



1. A device of the character described for dispowdering pralines and the like comprising an endless travelling sifting apron for carrying the articles, air-blasts arranged so as to play on said apron from opposite sides of the same, and a resilient support for the articles arranged opposite each air-blast.

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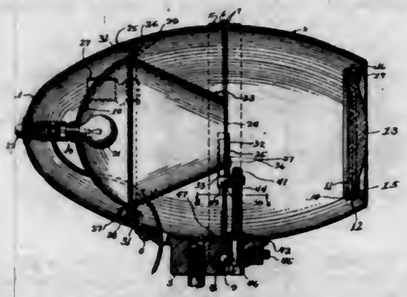
1,694,591. DUMPING TABLE. WILLIAM H. GRADY, Louisville, Ky., assignor, by mesne assignments, to American Creosoting Company, a Corporation of Delaware. Filed June 29, 1927. Serial No. 202,312. 6 Claims. (Cl. 214—41.)



1. A dumping table adapted for handling railroad ties comprising inclined skidways, means for supporting a series of rollers adjacent the skidways, and means for raising and lowering the supporting means to raise or to depress the rollers above the tops of the skidways, the rollers being mounted in frames, and comprising inclined bearing plates, feet on the frames resting on the bearing plates, and means for moving the frames to and fro to thereby raise and lower the frames.



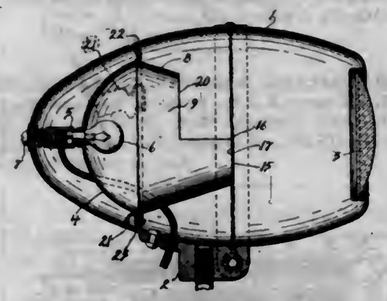
1,694,592. LAMP. RICHARD GRAF, South Bend, Ind., assignor to Graf-Lite Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1926. Serial No. 125,634. 3 Claims. (Cl. 240—41.)



1. In a lamp the combination of a casing, a forwardly facing cup reflector in the casing and provided with an exterior circumferential flange of angular radial section, a tubular light shield in the casing in front of the reflector and provided with an exterior circumferential flange of corresponding angular radial section adapted to engage against said flange of the reflector to form a light tight joint therewith, a plurality of brackets spaced about said flanges and secured to the interior of said casing and interiorly grooved circumferentially about said flanges, and a retractable spring ring engageable in the groove of said brackets for securing said flanges in overlying relation on said brackets for the mounting of the reflector and shield.

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1,694,593. LAMP. RICHARD GRAF, South Bend, Ind., assignor to Graf-Lite Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1926. Serial No. 125,650. 2 Claims. (Cl. 240—41.)



1. In a lamp of the character described, the combination of a casing open at its front end, a forwardly facing light concentrating cup reflector mounted rearwardly in said casing, an incandescent electric lamp located in the axis of the reflector so as to have its rays converged by said reflector forwardly thereof, a condensing lens mounted forwardly on the casing in axial alinement with the reflector and having its rear focus forwardly of said reflector and lamp at a point of convergence of said rays, and an opaque light shield extending about the focal axis of the lamp below the same between said lens and eflector and extending and enlarging rearwardly from the transverse plane of the rear focus of said lens with a generally semi frusto-conical interior reflecting surface and having a vertical transverse portion at the transverse plane of said rear lens focus and presenting a horizontal lower shield edge adjacent said rear lens focus, said transverse portion having an opening on one side thereof below said lower shield edge, said shield permitting free emanation of the light above the focal axis of the lamp at and rearwardly adjacent said transverse plane.

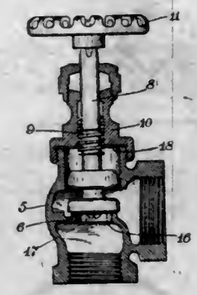


1,694,594. PROCESS FOR THE PURIFICATION OF GASES TO BE USED IN THE PRODUCTION OF AMMONIA. BIRGER FJELD HALVORSEN, Oslo, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Filed Feb. 3, 1927, Serial No. 165,762, and in Norway Feb. 25, 1926. 2 Claims. (Cl. 23—7.)

1. Process for the purification of hydrogen-nitrogen mixtures, which consists in washing the mixture with a liquid ammonia containing inorganic salts capable of reacting with water, carbon dioxide and carbon monoxide.

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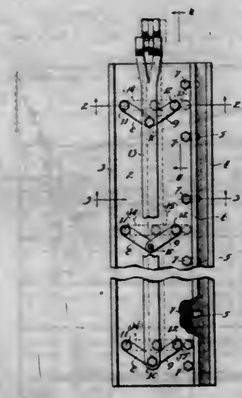
1,694,595. VALVE. JESSE C. HOWARD, Columbus, Ohio. Filed May 5, 1927. Serial No. 189,139. 3 Claims. (Cl. 251—46.)



1. In a device of the kind described, a valve stem having a flanged swiveling head, and a valve head recessed to receive said stem head, the wall of said recess above the bottom thereof provided with an annular groove, the material of the recessed portion of said head above the annular recess pressed into retaining swiveling engagement with said swiveling head.

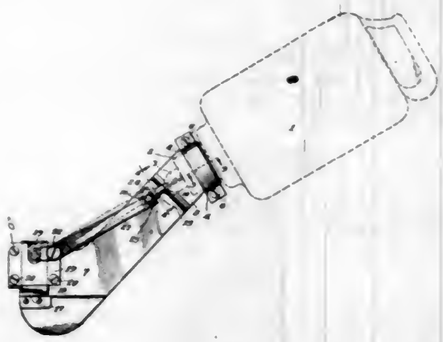
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1,694,596. MACHINE FOR CLOSING THE FOLD OF A SHEET OF METAL. THOMAS J. KELLEHER, Chicago, Ill. Filed May 16, 1927. Serial No. 191,887. 5 Claims. (Cl. 153—21.)



2. A beam having a vertical member and a horizontal member in combination with an additional beam having a vertical member and a horizontal member movably mounted on said first named beam, a plurality of slots in said first named beam and bolts extending through said slots and into the horizontal member of said additional beam, and means to move said additional beam laterally to control the relative position of said vertical members of said beams.

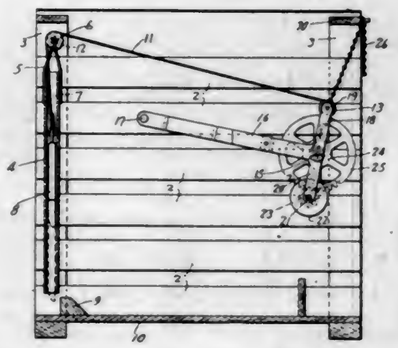
1,694,597. ELECTRICAL SHEET-METAL CUTTER. THOMAS J. KELLEHER, Chicago, Ill. Filed Dec. 12, 1927. Serial No. 239,549. 4 Claims. (Cl. 164—75.)



3. In an electrical sheet metal cutter, in combination, a base, a clamp rigidly attachable to the shell of an electric motor, means to removably attach said base to said clamp, said means to attach comprising a co-acting groove and rib on said base and clamp, a slot on said base, a screw threaded bolt, and a nut on said bolt.

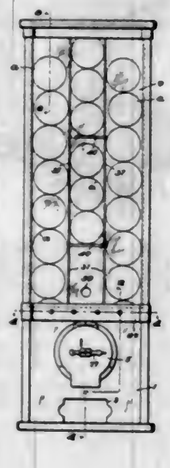
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1,694,598. DOOR FOR HOGPENS. JACOB W. LAFFERTY, Mechanicsburg, Ohio, assignor of one-half to John M. Lafferty, Mechanicsburg, Ohio. Filed Apr. 24, 1928. Serial No. 272,489. 11 Claims. (Cl. 119—15.)



1. In a structure of the character described, a door, a latch for said door, and means for moving said latch progressively to or from its latching position by animals passing therethrough independently of the position of said door.

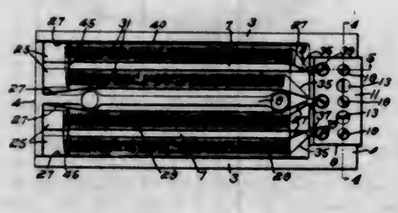
1,694,599. VENDING MACHINE. CHARLES LEA, Boston, Mass., assignor to The Automatic Merchandizer, Inc., Boston, Mass., a Corporation of Delaware. Filed Feb. 3, 1922. Serial No. 533,859. 20 Claims. (Cl. 312—84.)



1. A vending machine having, in combination, a plurality of hoppers for the articles to be vended, a plurality of mechanisms operative to permit discharge of articles from said hoppers, actuating means for said mechanisms comprising Geneva-stop-motion-means connecting said mechanisms to each other, and a single operating member for said Geneva-stop-motion-means.

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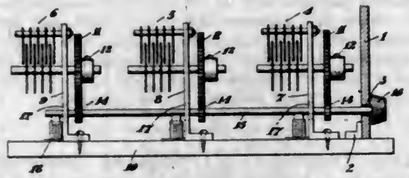
1,694,600. ELECTRIC RESISTANCE HEATING ELEMENT. HOWARD S. LEE, Peabody, Mass., assignor to Jasper Marsh, Danvers, Mass. Filed Feb. 12, 1927. Serial No. 167,687. 6 Claims. (Cl. 219—19.)



1. An electric resistance heating unit having, in combination, casing means providing parallel, elongated chambers separated by a wall of electrically conductive material, the latter formed to provide a transverse passage establishing communication between said chambers at one of the corresponding end portions thereof, coils of resistance wire extending lengthwise of said chambers, a coil engaging member of heat refractory insulating material for holding said coils under tension, said member extending through said passage and resting against the walls thereof, and a filler of heat refractory insulating material in said chambers insulating the turns of said coils from each other and spacing the coils from the walls thereof.



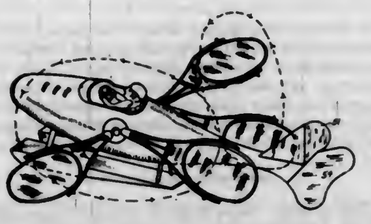
1,694,601. CONTROL MECHANISM FOR RADIO APPARATUS. ROBERT J. MARTIN, North Asbury Park, N. J., assignor to B. M. C. Patent Company, Trenton, N. J., a Corporation of New Jersey. Filed Dec. 16, 1925. Serial No. 75,731. 5 Claims. (Cl. 74—7.)



1. In a control mechanism for radio apparatus, a plurality of substantially aligned elements separately mounted, a driven member affixed to each of said elements, a common operating shaft having driving members thereon adapted to coact with said driven members, said shaft being mounted in resilient members to maintain coaction between said driving members and driven members.
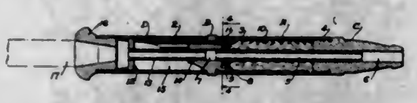
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1,694,602. PROPULSION MEANS FOR AIRCRAFT OR THE LIKE. RICHARD NUTTALL, Sydney, New South Wales, Australia. Filed Apr. 13, 1926, Serial No. 101,788, and in Australia Mar. 11, 1925. 8 Claims. (Cl. 244—16.)



8. Propulsion means of the character described comprising a plurality of wings, a hub bracket carrying said wings, means to rotate said hub bracket, and means in engagement with said first means to revolve the wings upon rotation of the hub bracket.

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1,694,603. COMBINATION FOUNTAIN PEN AND CIGARETTE HOLDER. UMBERTO PIAGNERI, San Francisco, Calif. Filed Oct. 24, 1925. Serial No. 64,494. 6 Claims. (Cl. 120—42.)

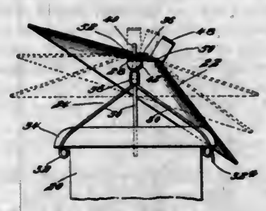


1. An article of manufacture comprising a barrel having an ink containing chamber formed therein; a head member on each end of the barrel and forming closures for the ink chamber; one head adapted to carry a pen; a mouth piece on the opposite head; means whereby a cigarette may be supported with relation to the first named head and means whereby smoke is conveyed from the cigarette supporting means to the mouth piece.

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1,694,604. HEAT-DEFLECTION SHIELD. GEORGE E. RYAN, Taunton, Mass. Filed Sept. 8, 1926. Serial No. 134,169. 16 Claims. (Cl. 126—96.)

1. A device for deflecting heat from a heating unit, comprising a hood support adapted to be attached to said unit and terminating in a roughened upper end, a hood attachable to said support in any angular desired position and having a centrally roughened support engaging portion and



means on said hood and support to limit the tilting movement of said hood to a single plane at any degree of tilt up to substantially 45° to the horizontal.

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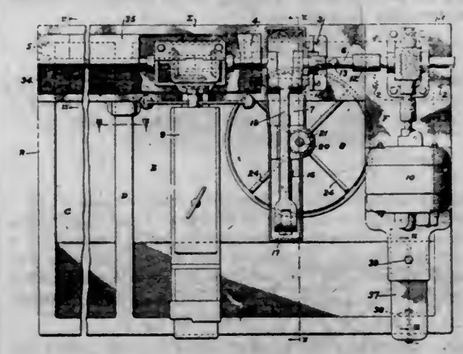
1,694,605. TESTING LAMP FOR HEAVY CURRENT INSTALLATIONS. JOHANNES FRANCISCUS SCHLEPER, Amsterdam, Netherlands. Filed Sept. 10, 1923, Serial No. 661,851, and in the Netherlands Sept. 12, 1922. 1 Claim. (Cl. 200—115.5.)



In an electrical testing lamp, a separable two part plug of insulating material containing a safety fuse, a movable pin having a plate at the inner end, and a conducting spring betwen the fuse and plate whereby the pin is urged outwardly.

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1,694,606. WASHING MACHINE. FRANK B. SCHUYLER, Berkeley, Calif; Ella S. Schuyler executrix of said Frank B. Schuyler, deceased. Filed Nov. 1, 1926. Serial No. 145,536. 5 Claims. (Cl. 68—15.)

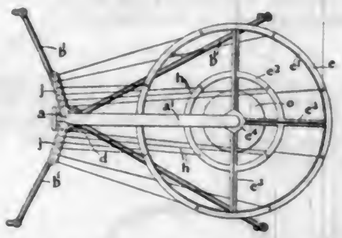


1. In a washing machine of the character described, a base member consisting of a longitudinally extending base section, a second section extending at right angles thereto, said section being detachably secured to permit it to assume a right angle position at either side of the first named base section, a drive shaft extending from end to

end of the first named section and journalled thereon, a driving motor carried by the second named section and adapted to transmit power to the driving shaft, an arm journalled on the first named section at right angles thereto and adapted to be swung from a vertical to a horizontal position on either side of the first named section, a shaft journalled in the arm and assuming a vertical position when the arm assumes either of its horizontal positions, means whereby an oscillating movement is transmitted to said shaft from the drive shaft in either horizontal position of the arm and an impeller connected to and driven by said shaft.

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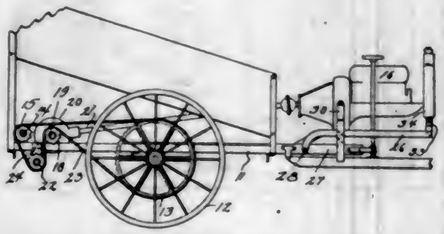
1,694,607. APPARATUS FOR WAVING OR CURLING THE HAIR. EUGÈNE FRANÇOIS SUTER, London, England. Filed July 9, 1925. Serial No. 42,487, and in Great Britain June 18, 1925. 4 Claims. (Cl. 132—36.)



1. Apparatus for waving or curling the hair, comprising a stand adapted to support the whole of the said apparatus from the ground, a supporting member at the upper part of the said stand, the said supporting member extending outward laterally to overhang from the said stand and adated for the support of a number of separate movable flexible members, the said separate movable flexible members suspended from the said supporting member, electrical heaters respectively depending from one end of the said movable flexible members beneath the said supporting member, means upon the said stand for the support of the said movable flexible members in position adjacent the said stand at their ends opposite to those from which the said electric heaters respectively depend and are supported in position adjacent to each other and away from the said supporting member, counterweights respectively carried at the said adjacent ends of the said flexible members, and juxtaposed and substantially vertically disposed guideways upon and in position adjacent the said stand, within which guideways the said counterweights respectively slide on the arising or lowering of the respective heaters, substantially as described.

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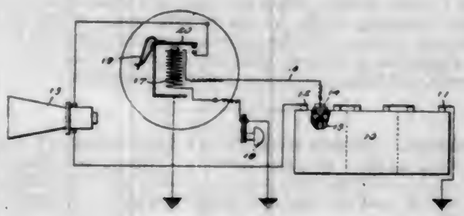
1,694,608. POWER ATTACHMENT FOR CORN PICKERS. KINNEY TJOSSEM, Paullina, Iowa. Filed Feb. 23, 1928. Serial No. 256,264. 1 Claim. (Cl. 180—53.)



In combination with a corn picking vehicle having travel wheels, a bull sprocket, a frame including spaced longitudinal rails, a power receiving shaft journalled upon said frame, just above the rails, parallel to the main wheel axis, and spaced from the wheels, and a driven sprocket on said shaft, a power drive attachment comprising an automobile power plant and transmission mounted upon the frame, the rear axle housing thereof being secured transversely upon the rails, a power drive sprocket secured to the rear axle of said transmission and aligned with the driven and bull sprockets, an idler sprocket mounted on the frame below and between the power drive and driven sprockets, and a chain travelling around and under the bull sprocket, thence over the drive sprocket, thence under the idler sprocket, thence around and over the driven aprocket, and thence back to the bull sprocket.

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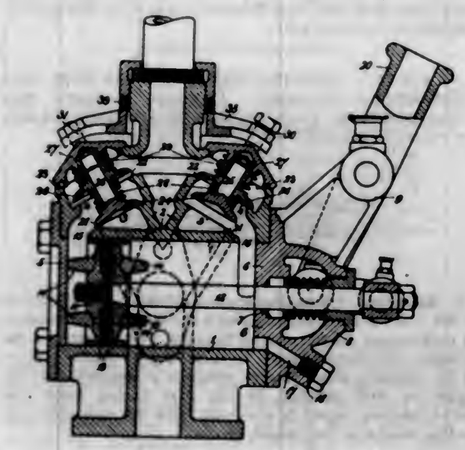
1,694,609. BATTERY WATER-LEVEL INDICATOR. LELAND ROSS WILLITS, Atlantic City, N. J. Filed Dec. 10, 1927. Serial No. 239,203. 3 Claims. (Cl. 136—182.)



1. In combination with a vehicle having an electrically operated audible signal, a normally open circuit for the signal including a secondary battery and a relay, an operating circuit for the relay including said secondary battery and a normally open switch, the operating circuit of the relay opening exteriorly to said switch upon a predetermined lowering of the level of the electrolyte of the secondary battery.

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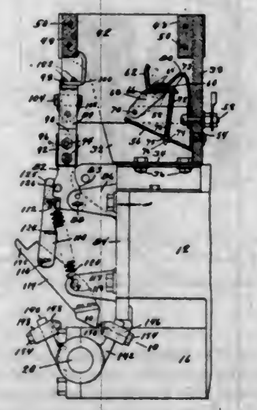
1,694,610. PUMP. JEAN ZWICKY, London, England. Filed Aug. 11, 1923, Serial No. 656,934, and in Great Britain Apr. 3, 1923. 5 Claims. (Cl. 108—175.)



1. In a pump a cylinder body, comprising a cylinder proper, inlet and outlet fittings, and seatings for tappet valves, the machined surfaces of said seatings being at right angles to lines meeting in a common point on the cylinder axis.



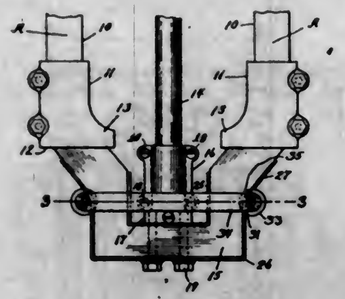
1,694,611. AUXILIARY SWITCH. CHESTER D. AINSWORTH, Wollaston, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 26, 1925. Serial No. 11,887. 22 Claims. (Cl. 200—15.)



1. An electric switch having the combination of a pivoted switch arm, operating mechanism therefor including a toggle connected with said arm, means including a spring arranged to hold said toggle releasably in overshot position, an operating member for said operating mechanism arranged to move said toggle positively both into and out of overshot position, and means providing a movement of said switch arm independently of said operating member including a lost-motion connection between said operating member and one of the members of said toggle.

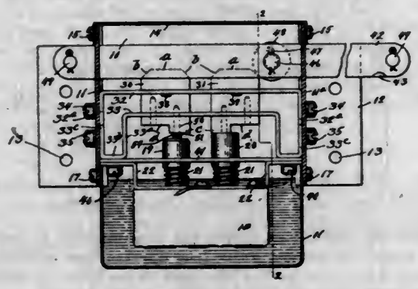
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1,694,612. CONTACT STRUCTURE FOR ELECTRIC SWITCHES. CHESTER D. AINSWORTH, Wollaston, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1925. Serial No. 33,812. 9 Claims. (Cl. 200—165.)



8. A brush member for an electric switch, said brush member having a bottom connecting and separating portion, opposed and substantially vertical legs rising from said connecting and separating portion, said legs having divergent contact terminals, a brush-supporting member connected with said brush member intermediate said legs, a strain member floating on and connecting said legs to restrain them against divergent movement, and means carried by said brush-supporting member arranged to engage said strain member and limit the movement thereof.

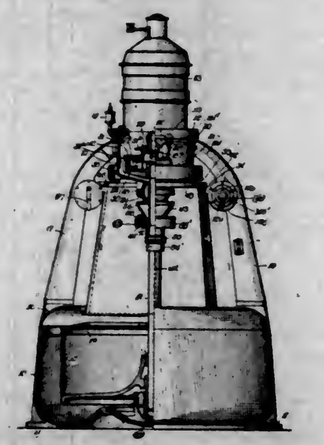
1,649,613. MOTOR-CONTROL SWITCH. CHESTER D. AINSWORTH, Wollaston, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1921. Serial No. 456,318. 25 Claims. (Cl. 200—50.)



1. An electric switch comprising a switch assembly having self-supported depressible switch-operating members, a support located above said depressible members, and operating mechanism having independently operable plungers slidable in said support above and arranged to depress said depressible members one at a time.

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1,694,614. CENTRIFUGAL EXTRACTOR. FRITZ BALZER, Moline, Ill., assignor, by mesne assignments, to Troy Laundry Machinery Company, Inc., Dover, Del., a Corporation of Delaware. Filed Feb. 13, 1925. Serial No. 8,891. 8 Claims. (Cl. 192—136.)



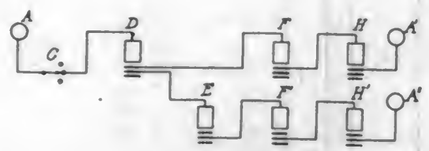
1. In a centrifugal extractor, in combination, a motor whose rotor has a fixed axis of rotation, a whirling basket, a centrifugal clutch between said rotor and said basket, and electrical connections for causing the reversal of rotation of said rotor for applying a braking action to said basket.

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1,694,615. AUTOMATIC TELEPHONE SYSTEM. JOHN I. BELLAMY, Chicago, Ill., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed July 22, 1921, Serial No. 486,763. Renewed May 19, 1928. 15 Claims. (Cl. 179—18.)

1. In a telephone system, a subscriber's line, means including a first selector, a second selector, and a connector

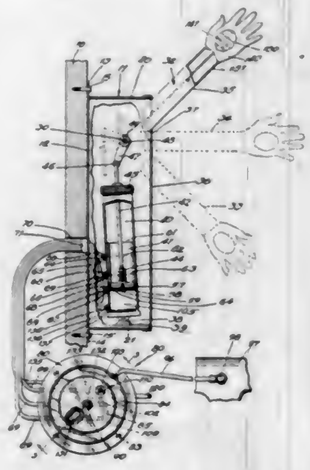
for connecting the said first line with a second line, means including said first selector, another second selector, a third selector, and another connector for connecting said first line with a third line, telephone numbers for said




second and third lines having the same number of digits, and means for automatically releasing the first mentioned second selector whenever the said second line is called in order to cancel one of the digits in the number.

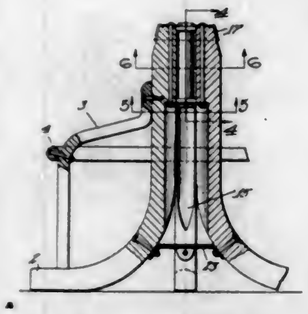
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1,694,616. AUTO SIGNAL DEVICE. THOMAS B. BLEVINS and JIM C. PHILLIPS, Long Beach, Calif. Filed Sept. 21, 1925. Serial No. 57,638. 1 Claim. (Cl. 116—39.)



In a semaphore direction signal, the combination of: a housing adapted to be applied to an exterior surface of the body of an automotive vehicle; a shaft journalled in the upper portion of said housing substantially parallel with the normal direction of travel of said vehicle; a semaphore arm rigidly secured to said shaft, there being an opening in said housing to permit said arm to swing upon said shaft to extend from said housing in a plurality of signalling positions; a crank fixed upon said shaft in spaced relation to said arm; a cylinder pivotally mounted at its lower end within said housing so as to lie substantially in a plane with said arm, when said arm is at rest, said plane being substantially parallel to said direction; a piston slidably operable within said cylinder and having a rod pivotally connected to said crank; and a control valve for controlling different pressures introduced into said cylinder to move said arm between said position of rest and one of said signalling positions.

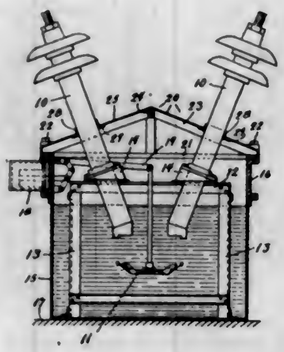
1,694,617. CHAIR. CHARLES A. BROWN, Gardner, Mass., assignor to Heywood-Wakefield Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 2, 1927. Serial No. 165,464. 1 Claim. (Cl. 155—138.)



In a chair of the class described, a tubular member having an internally threaded bore, for the reception of a threaded seat spindle, said tubular member being formed near each end with a polygonal collar, and beyond each collar with a short tubular extension of circular cross section, chair legs radiating from the axis of said tubular member, and each having a plane inner surface for abutment against the corresponding sides of said polygonal collars, clamping devices to hold said legs against endwise and lateral movement relative to said tubular member, said clamping devices being centered on said short tubular sections of said member, and held in spaced relation thereon by said polygonal collars, and bolts connecting said clamping devices and extending longitudinally through the interposed portions of each leg.

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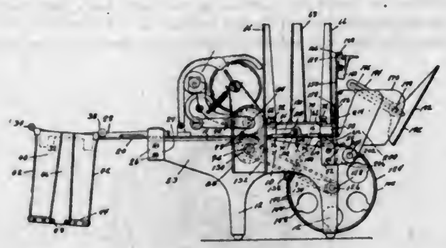
1,694,618. ELECTRICAL APPARATUS AND SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 29, 1924. Serial No. 709,921. 14 Claims. (Cl. 200—150.)



1. An electrical apparatus having an enclosing casing adapted to contain an insulating fluid, circuit terminals extended into the fluid, and a cover for the casing which is fragile and is adapted to be disrupted when an abnormal pressure occurs within the casing and uncover the casing and relieve the pressure.



1,694,619. ADDRESSING MACHINE. HARMON P. ELLIOTT, Watertown, Mass. Filed July 2, 1926. Serial No. 120,206. 55 Claims. (Cl. 101—49.)



1. In an addressing machine, printing means defining a printing position, means to move successive stencils and successive envelopes in approximately parallel paths in the same direction to the printing position.

40. In an addressing machine, printing mechanism, a stencil track, a stencil holder disposed at one end of said track, means to remove successive stencils from said holder and move them along said track to said printing mechanism, an envelope holder disposed at the rear of said stencil holder, an envelope feeding drum disposed beneath said envelope holder and operable to remove successive envelopes from the holder and move them to the printing mechanism, means to press the forward edges of the envelopes in the holder against the periphery of said drum, a roller disposed beneath said stencil track ahead of said pressing means and having means urging it against the envelopes on said drum, a support for the removed envelopes disposed between said drum and printing mechanism and beneath said stencil track, and means operable to press the envelopes against said support and hold them releasably without motion with their rear edges at the bight of said roller and drum.

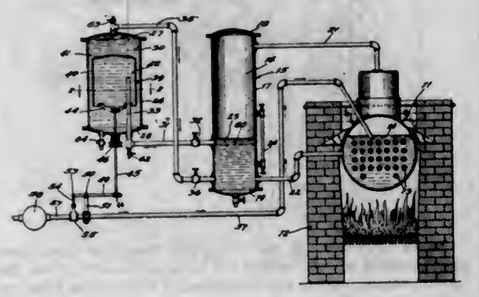
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1,694,620. BASE-EXCHANGE BODY. ALPHONS O. JAEGER, Crafton, Pa., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 28, 1927. Serial No. 171,727. 14 Claims. (Cl. 23—234.)

1. Catalysts comprising base exchange bodies free from chemically combined silicon containing catalytically active elements combined in non-exchangeable form.

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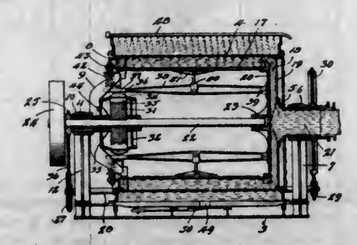
1,694,621. LIQUID-FEED CONTROL. RICHARD GIRARD JONES, Hynes, Calif. Filed Dec. 14, 1925. Serial No. 75,289. 7 Claims. (Cl. 137—101.)



1. In a liquid feed control, the combination of walls forming a closed space, the lower portion of said space being filled with liquid and the upper portion of said space being filled with vapor; walls forming a closed float chamber: a float chamber inlet pipe connected to said closed space below the level of liquid therein and extending to a point within said float chamber; a return pipe connected to said float chamber and to said closed space near the lower end thereof; a normally non-buoyant float situated in said float chamber, said float having the lower end thereof open, said float chamber inlet pipe extending so as to introduce liquid into a space inside said float and to introduce vapor into said space inside said float to render said float buoyant when the liquid level in said closed space falls below the intake end of said float chamber inlet pipe, said vapor raising said float in said float chamber; and means operated by said float when it is raised, for raising the liquid level in said closed space.

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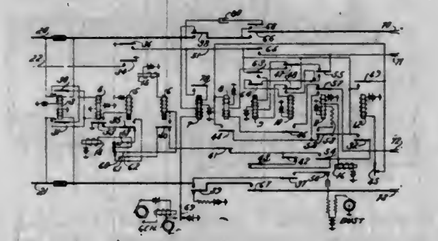
1,694,622. ROTARY SCREEN FOR SCREENING PULP AND PAPER STOCK. ERNEST W. LINDQUIST, Helsingfors, Finland. Filed Jan. 6, 1928. Serial No. 244,812. 9 Claims. (Cl. 92—36.)



1. In an apparatus of the character described, a screen drum circumferentially divided to form a series of circumferentially positioned suction chambers, each of which is provided with a diaphragm adapted to be flexed to produce suction in said chambers, a cam mounted coaxially of the drum, a plurality of shoes engaging with said cam, leverage connections between each shoe and one of the diaphragms, and means for producing relative rotation between the drum and the cam for the purpose of operating the diaphragm through the shoe and leverage connections.

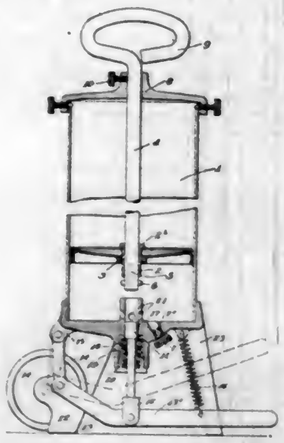
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1,694,623. TELEPHONE SYSTEM. JOHN E. OSTLINE, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill., a Corporation of Delaware. Filed Dec. 31, 1924, Serial No. 758,998, and in Great Britain Jan. 24, 1924. Renewed May 3, 1928. 25 Claims. (Cl. 179—18.)



1. In a telephone system, a switch, groups of lines terminating in said switch, each group including more than two lines, means for directively operating said switch to select any line in any group, means effective only in case the first line in a group is selected and is found busy for automatically causing the switch to hunt for an idle line, a set of test contacts for each line, and suitable circuit connections to said test contacts, the contacts of some of said sets being connected together and other contacts being connected to the battery, for controlling the hunting operation of said switch.

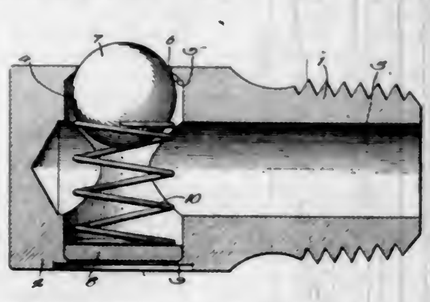
1,694,624. LUBRICANT COMPRESSOR. EMILE PIQUEREZ, Paris, France, assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 15, 1925, Serial No. 23,283, and in France Oct. 14, 1924. 8 Claims. (Cl. 221—47.1.)



8. A lubricant compressor comprising a reservoir, high pressure compressing means supplied from said reservoir, a piston in said reservoir, an axially slidable rod extending out through an end of said reservoir, a quick detachable connection between said piston and said rod, said piston normally detached from said rod, and an air vent plug for placing that part of the reservoir on the discharge side of said piston in communication with the atmosphere, said rod and detachable connection constituting means for operating said piston to expel air from said reservoir through said vent plug.

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1,694,625. VALVE. HENRY T. ROBERTS, Chicago, Ill., assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 23, 1922. Serial No. 583,773. 1 Claim. (Cl. 251—121.)

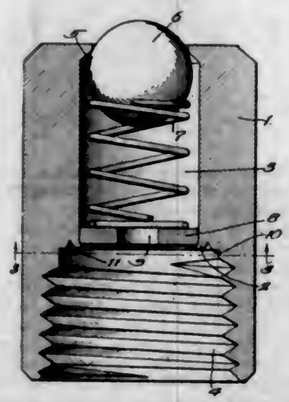


A valve comprising a nipple threaded at one end, the other end being polygonal for engagement by a tool for screwing the device into place, a lateral facing inlet opening in one of the faces of said polygonal end, and a spring-pressed check valve closing said inlet opening.

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1,694,626. VALVE. HENRY T. ROBERTS, Chicago, Ill., assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 23, 1922. Serial No. 583,774. 2 Claims. (Cl. 257—121.)

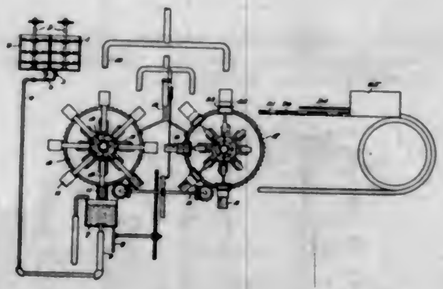
1. A valve comprising a one-piece body portion axially bored, the bore being of reduced diameter throughout a portion of the length of the body, the enlarged portion of the bore being screwthreaded and defining an annular shoulder between the enlarged and restricted portions of the bore, a valve retaining plug adapted to be received within the restricted portion of the bore, such plug having its peripheral edge inwardly tapered in the direction of its insertion into the restricted portion of the bore, the metal



of the aforesaid shoulder being upset to provide permanent retaining means for said plug, an inwardly directed annular flange at the outer end of the restricted portion of the bore, a valve member retained within said bore by the said shoulder, and a valve spring compressed between said plug and valve member for normally seating the said valve member against the annular flange.

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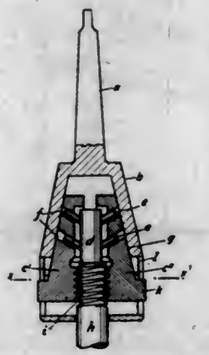
1,694,627. APPARATUS FOR MANUFACTURING CONTAINERS. CLARENCE R. ROBINSON, Brooklyn, N. Y., assignor to Robinson Fibre Corporation, Wilmington, Del., a Corporation of Delaware. Filed Mar. 22, 1924. Serial No. 701,108. 4 Claims. (Cl. 92—56.)



3. An apparatus of the character described comprising synchronized wheels, means for forming an article on dies on one wheel, means for transferring the article from the die on the first wheel to a die on the second wheel, a carrier adapted to receive the said second wheel die and article thereon, and means for whirling said die and article, while on the carrier, for drying, calendering and smoothing the article.



1,694,628. TOOL FOR INSERTING STUD BOLTS. HARRY SAUVEUR, Berlin, Germany. Filed Feb. 11, 1927, Serial No. 167,562, and in Germany Feb. 13, 1926. 3 Claims. (Cl. 81—53.)



2. A tool for inserting stud bolts, comprising a casing having a tapered bore, tapered jaws adapted to engage a bolt fitting in said tapered bore, a slide, and means positively engaging said slide with said jaws inclined at approximately the angle of the bolt threads.

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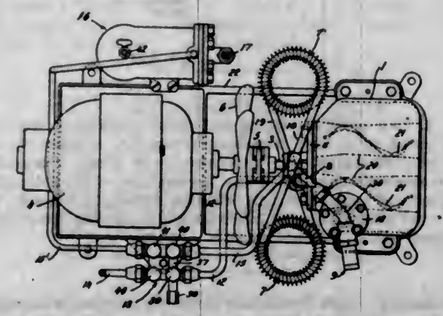
1,694,629. PROCESS AND APPARATUS FOR WELDING PLATES. CHARLES SCHAER, Langenthal, Switzerland, assignor to the Firm Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Filed Feb. 16, 1928, Serial No. 254,727, and in Switzerland Feb. 28, 1927. 7 Claims. (Cl. 78—92.)



1. Process for welding plates, which consists in bevelling the meeting edges of the plates, laying a rod like bridge member along the joint above the sharp or nearest edges of the plates, heating the edges and the rod and then welding them together by bending or turning over the edges of the plates.

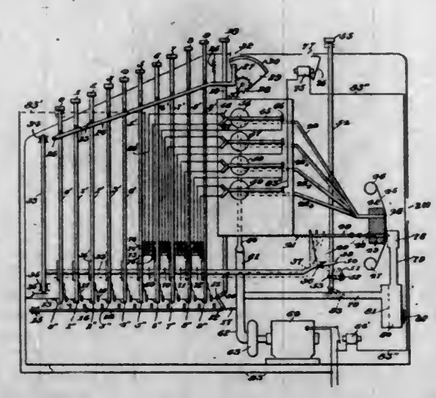
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1,694,630. REFRIGERATING APPARATUS. ALFRED MORRIS THOMSON, Newark, N. J., assignor to Joseph Mercadante, New York, N. Y. Original application filed Oct. 20, 1926, Serial No. 142,846. Divided and this application filed May 12, 1927. Serial No. 190,743. 13 Claims. (Cl. 230—205.)



1. In a refrigerating apparatus, the combination of a gas-tight casing having an air passage extending therethrough, a rotary pump in said casing for compressing the gasified refrigerant, means for operating the pump, and means for causing air to flow through the said passage.

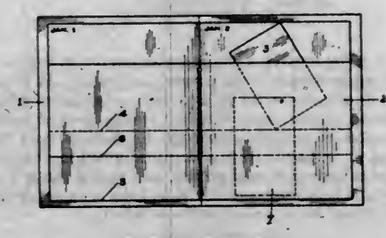
1,694,631. ELECTROMECHANICAL RECORDING AND CONTROLLING MACHINE. PIETRO TROJANI and CORRADINO D'ASCANIO, Rome, Italy. Filed Aug. 23, 1926, Serial No. 131,094, and in Italy July 30, 1926. 9 Claims. (Cl. 164—112.)



1. An electro-mechanical machine for recording and identifying documents through perforated symbols on a registration strip, comprising a circuit provided in a plurality of places serially located with respect to said circuit with pairs of parallel limbs forming alternative current paths, two groups of independently movable switch elements connected to the circuit terminals adjacent the ends of said pairs, adapted to make contact with one or the other of said limbs, to close said circuit when both switch elements associated with a pair of limbs are in contact with the same limb, a plurality of punches for perforating said registration strip, a key board having keys selectively manipulable to set certain switch elements of one group in their operative position, and simultaneously to set corresponding punches in preliminary position, means for actuating such punches as are in preliminary position, and means selectively responsive to perforation combinations on said strip for setting switch elements of the second group which correspond with the set switch elements of the first group, into circuit-closing relation.

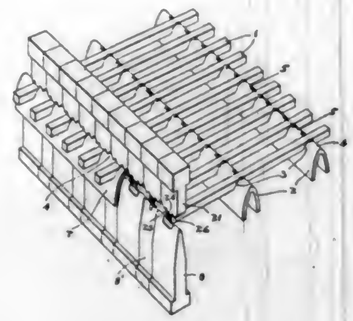
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1,694,632. DIARY MEMORANDUM BOOK, ETC. MARTIN J. WADE, Iowa City, Iowa. Filed Nov. 25, 1927. Serial No. 235,533. 1 Claim. (Cl. 281—38.)



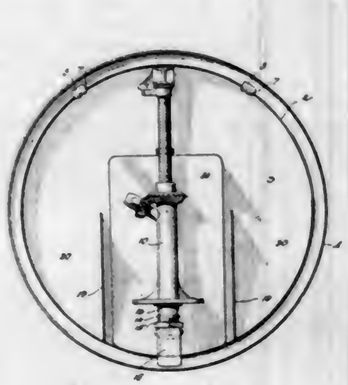
A book comprising a plurality of leaves suitably bound together, each leaf comprising a pocket formed by folding upwardly a portion of the leaf and an additional pocket formed by folding downwardly such folded portion of the leaf, and with the lower portion refolded upwardly and in the opposite direction from the last mentioned fold.

1,694,633. TOOL FOR MAKING GRATINGS. ARTHUR E. WELLS, Toronto, Ontario, Canada. Filed Mar. 18, 1927. Serial No. 176,443. 5 Claims. (Cl. 78—60.)



3. A tool for making gratings of the type having a plurality of straight parallelly arranged bars rigidly secured by parallel cross bars, comprising die blocks adapted to engage and deform portions only of said sets of bars at their intersections into overlapped interlocked relation to secure said bars together leaving the same in their straight form.

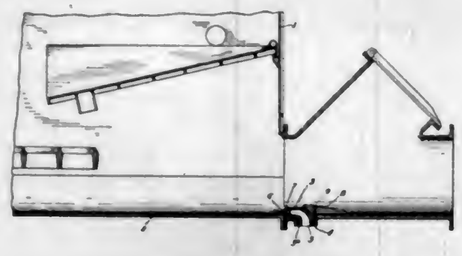
1,694,634. TOOL CONTAINER FOR TIRE CARRIERS. PHINEAS S. WHITING, Royal Oak, Mich. Filed Dec. 14, 1925. Serial No. 75,312. 2 Claims. (Cl. 224—29.)



2. In a tire carrier, a container supported in said carrier, spaced apart means on the upper portion of said container engaging opposite sides of said carrier for preventing displacement of said container, and spring pressed means in said container extending through the bottom wall thereof adapted to cooperate with said spaced apart means in holding said container in said carrier, said spring pressed means including a retaining member on which a tool may be seated and held against a wall of said container.

1,694,635. SLUICEWAY NOZZLE. FRANK B. ALLEN, Lower Merion Township, Montgomery County, Pa., assignor, by mesne assignments, to Frank H. Dunbar, Cleveland, Ohio. Filed Nov. 12, 1925. Serial No. 68,638. 6 Claims. (Cl. 302—15.)

1. In combination with a solid material carrying sluiceway, a nozzle in the sluiceway having an outlet opening inside of the sluiceway, and disposed adjacent and parallel to a wall of the sluiceway, a nose piece for the outlet opening of the nozzle provided with a substantially round



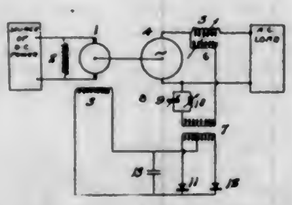
tubular perforation, and a wear plate in the sluiceway disposed rearwardly of and in wear protecting position with respect to the nozzle.

1,694,636. DENTAL DEVICE. HORACE E. BARKER, Brooklyn, N. Y. Filed Dec. 10, 1926. Serial No. 153,786. 6 Claims. (Cl. 32—10.)



1. A dental device comprising a tube of soft resilient substance having resilient elongated spine-like serrations at and around one end thereof, which form massaging fingers, the opposite end of said tube being adapted to be applied to a suitable holder.

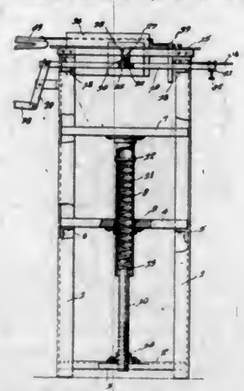
1,694,637. SPEED REGULATOR. JOSEPH BETHENOD, Paris, France. Filed June 2, 1923, Serial No. 642,948, and in France June 27, 1922. 5 Claims. (Cl. 171—119.)



1. In a speed regulating system for alternators, the combination of a high frequency alternator, a shunt circuit connected across said alternator, said circuit comprising an element whose impedance is a function of the alternator frequency and said circuit being inductively linked with the output circuit of said alternator and a rectifier inductively coupled to said shunt circuit.

1,694,638. ATTACHMENT FOR PRINTING PRESSES. RUSSELL WIER BORROWDALE, Chicago, Ill., assignor to John Toman, Chicago, Ill. Filed May 28, 1927. Serial No. 195,050. 3 Claims. (Cl. 271—89.)

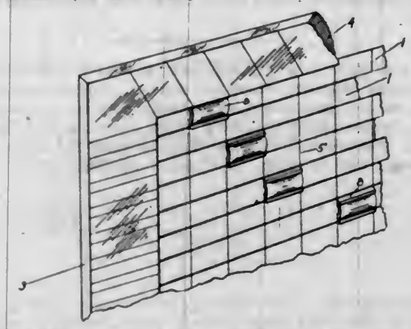
1. A device of the class described including a frame, a yieldably mounted movable platform in the frame, reciprocating bars on the frame, angle plates on the bars having slots, jogger plates, having arms movable in guides on the frame, and means carried by the arms and movable in



the slots for moving the plates toward and away from the central portion of the platform upon reciprocation of said bars.

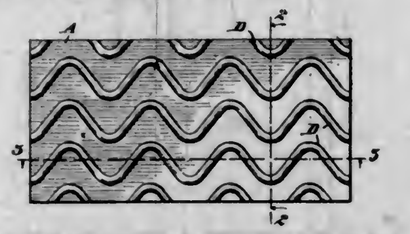


1,694,639. INDICATOR BOARD. DAVIS BROWN, Bucyrus, Ohio, assignor of one-half to W. A. Riddell, Bucyrus, Ohio. Filed July 23, 1927. Serial No. 207,843. 6 Claims. (Cl. 116—135.)



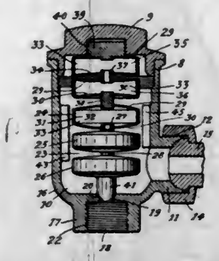
1. In an indicator board, a magnetic sheet metal material distributed over the surface of the board, the sheet material having guiding parts, slidable indicia members of magnetic material magnetically secured in their relative positions on the sheet metal along the guiding parts.

1,694,640. LATH BOARD. GEORGE A. BUTTRESS, Los Angeles, Calif. Filed Mar. 15, 1926. Serial No. 94,731. 3 Claims. (Cl. 72—124.)



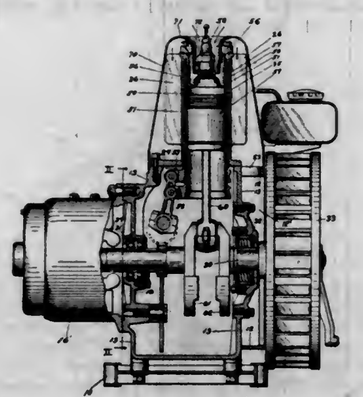
1. A lath board comprising a facing sheet, a backing sheet, and a layer of plaster interposed between said sheets; said facing sheet being formed with a series of ribs of arcuate cross section projecting from flat areas, said ribs being arranged to afford interruptions between the flat areas of the sheet in all directions crossing the sheet.

1,694,641. RADIATOR RETURN TRAP. ARTHUR P. CROSBY, Minneapolis, Minn., assignor of one-half to William T. Price, Minneapolis, Minn. Filed May 2, 1927. Serial No. 188,192. 9 Claims. (Cl. 236—56.)



1. The combination with a trap casing having a passage therethrough and a removable cap opposite said passage, of an assembly of axially expansible and contractible cells co-axially connected, a valve carried at one end of the assembly adapted to close said passage, and means at the other end of said assembly for securing the same to said cap, certain of said cells containing a medium adapted to cause the same to expand under increasing temperatures and move said valve to close said passage through the consequent elongation of said assembly, other of said cells being adapted yieldingly to contract under the expanding force of said first cells after the valve becomes seated.

1,694,642. INTERNAL-COMBUSTION ENGINE. HENRY J. EDWARDS, Toledo, Ohio, assignor to Industrial Research Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Nov. 25, 1918, Serial No. 264,064. Renewed Nov. 15, 1924. 5 Claims. (Cl. 123—171.)

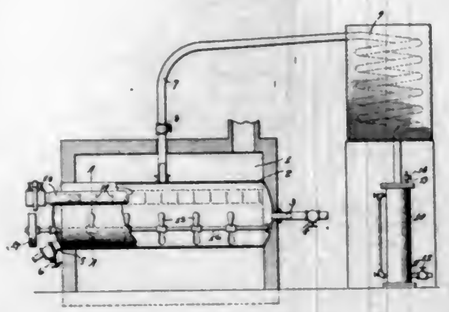


1. In an engine, the combination of a cylinder, a cup-shaped head therefor, radiating fins on said cylinder, and a casing surrounding and spaced therefrom, said casing being provided with an inwardly directed open end located within said cup-shaped head and substantially parallel to the sides thereof operative to direct air into said cup shaped head to cool the wall thereof and against the external wall of the cylinder.

1,694,643. APPARATUS FOR TREATING EMULSIFIED OIL. GUSTAV EGLOFF and HARRY P. BENNER, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a Corporation of South Dakota. Filed Aug. 21, 1920, Serial No. 405,103. Renewed May 28, 1928. 4 Claims. (Cl. 196—5.)

3. An apparatus for simultaneously dehydrating and fractionating emulsified oils, comprising a furnace, an

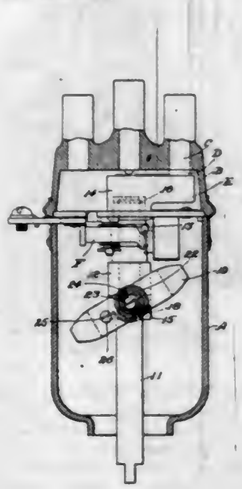
elongated cylindrical shell located in said furnace, a pair of burners co-extensive with said still and arranged to admit the flames adjacent the wall of said still in a plane above the highest liquid level in said still to distill the oil only from the surface thereof, a rotary shaft mounted



in the lower portion of said still and substantially co-extensive therewith, agitating fan members carried by said shafts and means to rotate said shafts to successively force different portions of the oil body to the surface to be distilled therefrom.

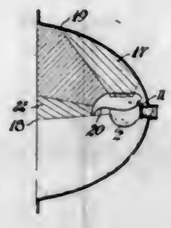
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1,694,644. GOVERNOR FOR IGNITION SYSTEMS. STEPHEN I. FEKETE, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 23, 1924. Serial No. 688,075. 4 Claims. (Cl. 200—22.)



2. In a distributor unit, a distributor shaft, a cam sleeve and cam rotatable on said shaft about its axis, a cross shaft extending through said shaft and fixed thereto, said cross shaft being slotted at one end, a governor weight pivotally mounted on said cross shaft and having a finger engaging a groove in said cam sleeve, a spring surrounding the end of the cross shaft and having one end in the slot of said cross shaft and the other connected to a post fixed in the governor.

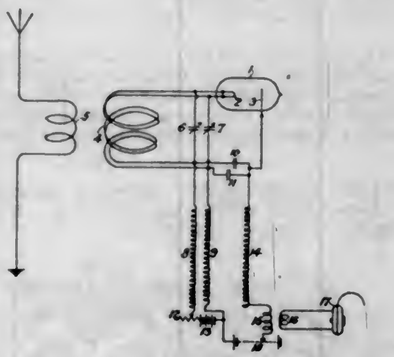
1,694,645. GLARE SHIELD. LOUIS G. FINNICUM, St. Paul, Minn. Filed Nov. 8, 1926. Serial No. 147,142. 5 Claims. (Cl. 240—48.6.)



1. A glare shield for automobile headlight lamps, comprising a wire support member having an annular portion closely embracing the base of a headlight lamp with a pair of arms extending angularly outward therefrom, a concave shield member pivotally supported on said arms, and having a plurality of notches engageable with said arms to adjustably hold said shield member in position on said arms.

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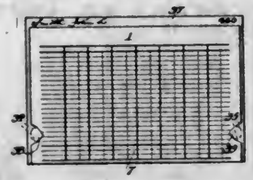
1,694,646. WIRELESS TELEGRAPH RECEIVER. CHARLES SAMUEL FRANKLIN, London, England, assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed June 25, 1919, Serial No. 306,608, and in Great Britain June 28, 1928. Renewed Oct. 5, 1927. 16 Claims. (Cl. 250—27.)



1. A circuit comprising a transformer having a coil consisting of two conductors wound together and insulated from each other, a thermionic valve having a filament and a cold electrode, each conductor of the coil being connected at one end of the coil to opposite leads respectively of the filament, and a battery connected to the filament through said conductors.



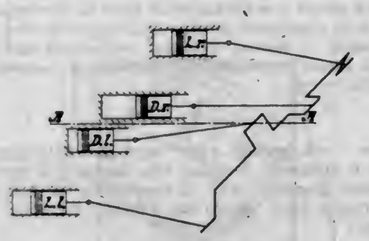
1,694,647. BILLING DEVICE. JAMES L. GARFIELD, Drexel Hill, Pa. Filed Aug. 6, 1926. Serial No. 127,544. 11 Claims. (Cl. 129—16.7.)



1. A rectangular sheet, having pairs of V-shaped notches, in opposite edges thereof, each pair adapted to contemporaneously engage, between them, the same projecting element of filing means, and thus wedgingly engage said element at opposite edges thereof and prevent displacement of said sheet in any direction with reference to such filing means.

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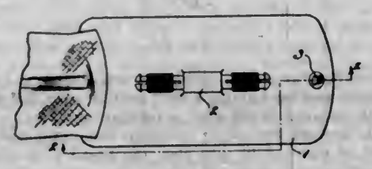
1,694,648. LOCOMOTIVE. JOSEF GEIGER, Augsburg, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft, Augsburg, Germany, a Corporation of Germany. Filed Sept. 16, 1926, Serial No. 135,861, and in Germany Sept. 28, 1925. 7 Claims. (Cl. 105—62.)



1. A locomotive driven by both Diesel and compressed-air-type engines acting directly upon the same driving axle, an engine of one of the types having heavier moving parts being arranged between a pair of engines of the other type having lighter moving parts.

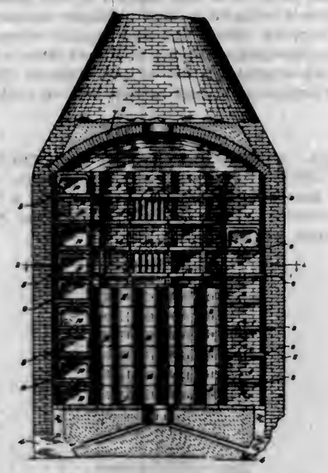
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1,694,649. APPLICATOR-SECURING MEANS. EDWIN R. GOLDFIELD and CAPERTON HORSLEY, Cleveland, Ohio, assignors to The Engeln Electric Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 14, 1927. Serial No. 168,050. 3 Claims. (Cl. 174—89.)



1. In an applicator having a body portion, a projection upstanding therefrom and having an undercut base portion and a nib portion, the projection portions forming therebetween an edge overhanging the base portion and adapted for engagement with a securing band of elastic webbing applied flatwise to said body portion.

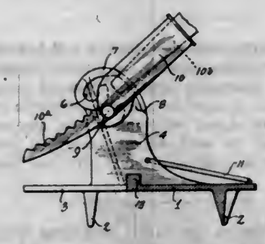
1,694,650. KILN. BARTHOLOMEW H. GREENE, Sebring, Ohio. Filed Dec. 30, 1927. Serial No. 243,571. 4 Claims. (Cl. 25—153.)



1. A kiln having a floor, side walls and a crown, and refractory shelves adjacent to the side walls and extending from the floor to the crown, for supporting articles to be fired, the shelves being spaced at their rear edges from the side walls.

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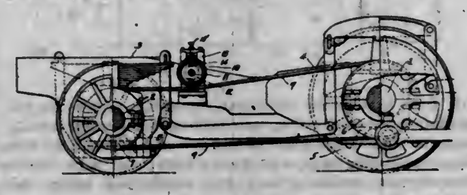
1,694,651. TRACK LINER. FREDERICK HACKMANN, Chicago, Ill.; Ida R. Hackmann administratrix of said Frederick Hackmann, deceased. Filed Nov. 26, 1926. Serial No. 150,801. 3 Claims. (Cl. 254—44.)



1. In a rail aliner, a base having spaced standards, each standard having inwardly projecting means overhanging the space between the standards, and each having a socket opening upwardly beneath its overhanging means, and a lever having trunnions fitting said sockets and adapted for engaging said overhanging means when the same is elevated.

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1,694,652. LOCOMOTIVE GOVERNOR. ALMIRON A. HAGER, Wellington, Wash. Filed June 3, 1925. Serial No. 34,577. 1 Claim. (Cl. 105—101.)

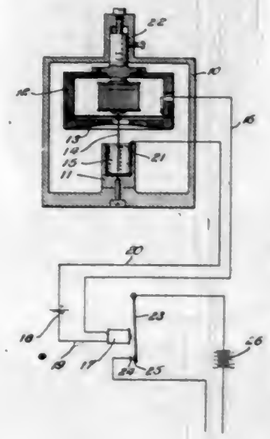


In a railway locomotive, the combination with the axle of a pair of drivers and the axle of a pair of wheels of a

trailer, engine or tender truck, of sheave wheels fixed on said axles in operative alinement; each being provided with a plurality of circumferential V-shaped grooves, cable belts operating about said sheaves in said grooves and an idler sheave mounted to bear yieldably against said cable belts to retain them taut and against slippage on the sheaves; the diameters of said sheave wheels bearing the same proportional relation to each other as the diameters of said drivers and truck wheels bear to each other.

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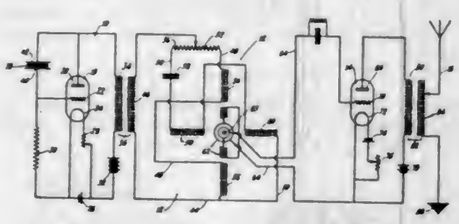
1,694,653. ELECTROLYTE AND ELECTROLYTIC APPARATUS. RAY E. HALL, Evanston, Ill., assignor to Hall Research Corporation, Chicago, Ill., a Corporation of Delaware. Filed Oct. 14, 1922. Serial No. 594,486. 2 Claims. (Cl. 177—352.)



2. A device of the class described, a cell having an electrolyte and electrodes therein, a circuit including said electrolyte and electrodes and a source of current, said source of current adapted to cause electrolytic convection in said electrolyte, signal receiving means, and mechanical means connected to said signal receiving means and adapted to disturb said electrolyte, for the purpose set forth.

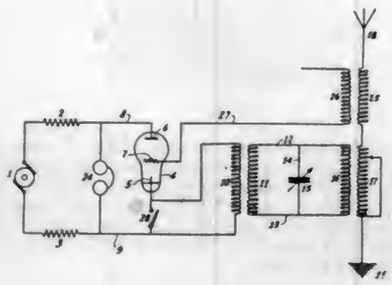
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1,694,654. METHOD OF AND SYSTEM FOR ELECTRICAL SIGNALING. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Feb. 12, 1925. Serial No. 8,644. 8 Claims. (Cl. 250—8.)



1. In a system for electrical signaling, a piezo-electric oscillator for generating oscillations of a substantially constant high frequency, means for amplifying the high frequency oscillations, and means interposed between the piezo-electric oscillator and the amplifying means for changing the phase of the amplified oscillations by equal amounts and in alternately opposite senses in accordance with signals.

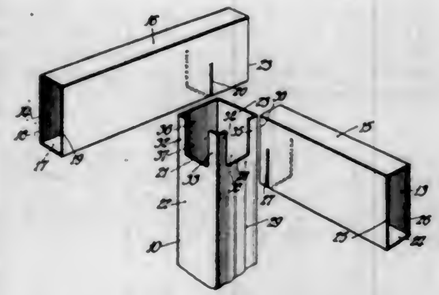
1,694,655. SYSTEM AND METHOD OF PRODUCTION AND RECEPTION OF CONTINUOUS OSCILLATIONS. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Original application filed Mar. 31, 1914, Serial No. 828,605. Renewed July 1, 1921, Serial No. 481,930. Divided and this application filed Jan. 9, 1926. Serial No. 80,162. 11 Claims. (Cl. 250—13.)



1. A system for transmitting or receiving electroradiant oscillations, comprising an aerial circuit, a detector, and means operatively connecting said aerial circuit to said detector and adjustable to render said detector either operative to cause said aerial circuit to generate a continuous series of undamped electroradiant oscillations while said circuit is not being acted upon by electroradiant energy, or to render said detector inoperative to cause said aerial circuit to radiate electrical oscillations but operative to detect electroradiant oscillations received by said aerial circuit.

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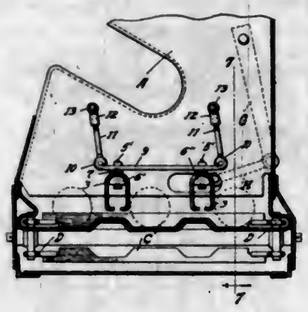
1,694,656. FRAMING FOR METAL FURNITURE. PETER E. HUETTEN, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Oct. 1, 1923. Serial No. 665,752. 5 Claims. (Cl. 45—58.)



1. Framing for metal furniture comprising a tubular metal post member having a wall portion provided at one end with an open ended slot, a tubular metal bar of considerable breadth extending laterally from said post, and disposed at one end in said slot, the breadth of said bar being such as will snugly fit in said slot, said bar having a flat side portion engaging the edge of said wall portion at said notch, and being of sufficient extent to prevent turning of the bar in the notch, and said bar being provided with a transversely extending kerf adapted to snugly receive a portion of the wall of said post at the bottom of said notch so as to prevent lateral movement of the bar relative to the post.



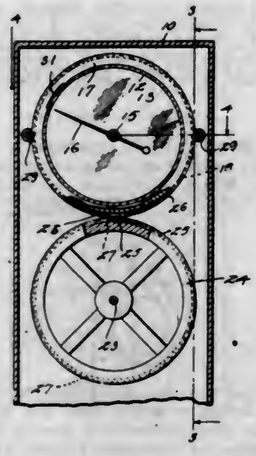
1,694,657. DISTRIBUTOR. GEORGE C. JETT, Milwaukee, Wis., assignor to Runge Corn Harvester Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Dec. 10, 1923. Serial No. 679,816. 7 Claims. (Cl. 198—33.)



6. The combination of a feedway for ears of corn having a plurality of feed channels, means for advancing the ears along said channels, and a laterally vibrating bar disposed lengthwise between adjacent channels for arranging the ears lengthwise therein.

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1,694,658. SCALE INDICATOR. OLAF A. JOHNSON, Minneapolis, Minn. Filed Mar. 24, 1928. Serial No. 264,483. 2 Claims. (Cl. 116—129.)

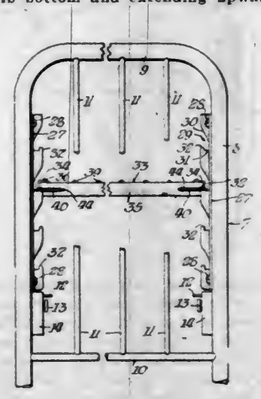


1. An indicating device for a weighing scale comprising a casing, a wheel in the casing having means for operative connection with a scale mechanism, a ring supported on the upper portion of the wheel, driving connections between the wheel and ring, transparent plates secured in opposite sides of the casing and having a series of graduations thereon, an indicating hand between the plates and having its shaft journaled in said plates, a second ring within the first ring and supporting the latter, and guiding means in the casing engaged with the periphery of the first ring.

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1,694,659. CRIB AND ADJUSTABLE SPRING-BOTTOM SUPPORT THEREFOR. FRANK KUSTERLE, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 2, 1925. Serial No. 72,658. 1 Claim. (Cl. 5—11.)

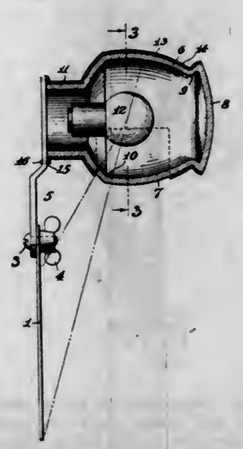
In a crib, the combination of a pair of spaced end frames rigidly supported relative to each other and having corner posts, a series of supports having upwardly projecting portions on each of said corner posts, a crib bottom adapted to be supported in various positions of adjustment on said supports and comprising side members and end members extending therebetween, said end members being provided with horizontal slots at their ends, adjacent the respective side members, supporting members pivotally mounted on the side members at each corner of the crib bottom and extending upwardly through



said slots, capable of horizontal movement therein about their respective pivots and terminating in substantially the plane of the outside face of the adjacent end frame, said supporting members being adapted to engage said supports and provided with slots extending lengthwise of the crib bottom and capable of receiving said upwardly projecting portions in the various positions of inclination in which the crib bottom may be placed, and grasping means on each of said supporting members inside of said plane.

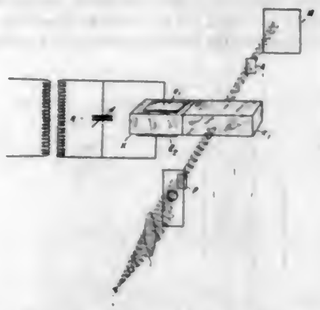
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1,694,660. TAIL LIGHT FOR AUTOMOBILES. WILLIAM F. LITTLE, Nepperhan Heights, N. Y. Filed Nov. 23, 1922. Serial No. 602,811. 2 Claims. (Cl. 240—8.3.)



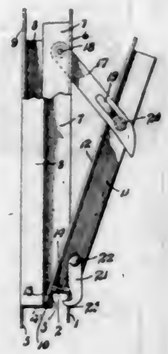
1. An improved tail light comprising a glass body having an elliptical reflector at its front and a colored glass window at its rear through which will be projected an intense beam from said reflector, said body having a clear glass window at its bottom and a parabolic reflector at its top to project a fan shaped beam through said latter window, substantially as set forth.

1,694,661. MEANS TO INFLUENCE LUMINOUS RAYS. ALEXANDER MEISSNER, Berlin, Germany, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a Corporation of Germany. Filed Feb. 28, 1927, Serial No. 171,583, and in Germany Mar. 1, 1926. 3 Claims. (Cl. 178—7.)



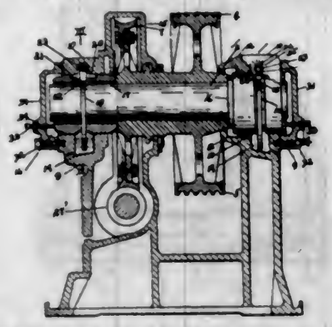
1. An arrangement for controlling luminous rays which comprises, an electro-mechanical vibrator, means for supplying variations in potentials corresponding to variations in light intensities to said electro-mechanical vibrator, a crystalline substance rigidly associated with said vibrator, a light source, means for polarizing the light issuing from such source and passing said polarized beam of light through said crystalline substance, means provided by said electro-mechanical vibrator rigidly associated with said crystalline substance for producing a physical change in said crystalline substance, whereby the light beam passing therethrough is doubly refracted in accordance with the variation in potential applied to said vibrator, and means for recording the variations in said doubly refracted polarized beam of light as passed through said crystalline substance.

1,694,662. WINDOW FASTENER. HIRAM W. NICLES, Muskegon Heights, Mich., assignor to Vento Steel Sash Company, Muskegon Heights, Mich., a Corporation of Michigan. Filed Oct. 11, 1926. Serial No. 140,700. 6 Claims. (Cl. 189—69.)



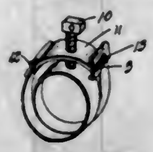
1. A window comprising an outer casing, a window sash located in said casing and at its lower side bearing against the lower side of the casing whereby it may be tilted away from the casing at its upper portion or may be bodily removed at its lower side from said casing, links pivotally connected to the casing at one end and having slidable and pivotal connection to the sash at the other end adjacent the upper portion of said sash, and means carried by said sash adjacent its lower side detachably connecting with the lower side of the casing, substantially as and for the purposes described.

1,694,663. ELEVATOR-GEARING ADJUSTMENT. FRANK L. OHLER, Toledo, Ohio, assignor to The Haughton Elevator and Machine Co., Toledo, Ohio, a Corporation of Ohio. Continuation of application Serial No. 587,114, filed Sept. 9, 1922. This application filed Nov. 12, 1925. Serial No. 68,955. 2 Claims. (Cl. 254—186.)



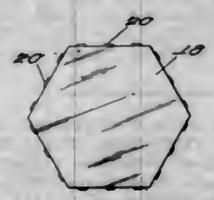
1. In a structure embodying a hoist line, a load and a counterweight connected to said line, a drum for actuating said line, a worm wheel for shifting the drum, a shaft for the worm wheel and drum and having oppositely disposed radially extending faces, a worm for actuating the worm wheel, and sets of bearings, one for the shaft and one for the worm, the set of shaft bearings being one adjacent one of said radially extending faces and another adjacent the other of said radially extending faces, the combination of eccentrics for mounting the shaft bearings, the said eccentrics each including a pin, a yoke for engaging each pin, threaded means operable for angularly shifting the yokes of said assembled operative structure, and additional means coacting between the eccentrics and the shaft for maintaining the eccentrics positioned as to the radially extending faces.

1,694,664. HOSE CLAMP. CHARLES A. PARKER, Haugan, Mont., assignor of one-half to William H. Logan, St. Regis, Mont. Filed Sept. 2, 1927. Serial No. 217,066. 2 Claims. (Cl. 24—19.)



1. The combination in a hose clamp fashioned as a circular band having a double turn and free ends, of a spaced clamp plate permanently secured to one end of the band, means for detachably securing the clamp plate to the other free end of the band, and a clamp secured in the clamp plate for reducing the diameter of the circular band.

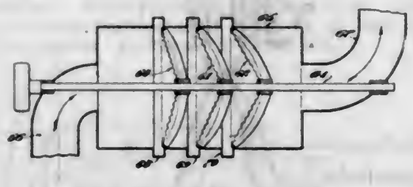
1,694,665. TILE. EUGENE PARKER, Los Angeles, Calif. Filed Feb. 9, 1927. Serial No. 166,855. 1 Claim. (Cl. 72—25.)



As a new article of manufacture, an hexagonal tile having integral interfitting and spacing lugs along the edges thereof, said interfitting lugs being spaced alternately for juxtaposed tiles, the said interfitting lugs also adapted to be completely surrounded by mortar when the tiles are laid.

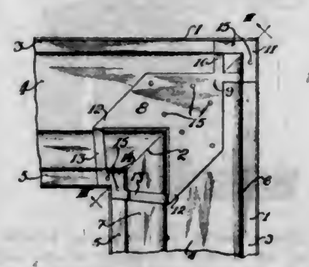


1,694,666. SEPARATING APPARATUS. FRED FORREST PEASE, East Braintree, Mass., assignor to F. F. Pease Inc., Boston, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1922. Serial No. 604,483. 2 Claims. (Cl. 183—63.)



1. An apparatus for the separation of suspended matter from gas comprising a duct or chamber for the passage of gas therethrough, a plurality of screen surfaces disposed within the duct, means for supporting the screen surfaces at different inclinations with respect to the direction f flow of the gas, and means for moving the screen surfaces transversely of the direction of flow of the gas.

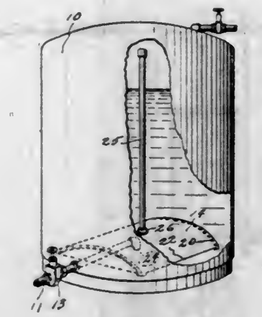
1,694,667. MITERED-JOINT BRACKET. PERCY E. PECK and WINGATE S. THOMAS, Chicago, Ill., assignors to Knapp Brothers Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 23, 1927. Serial No. 193,498. 5 Claims. (Cl. 189—36.)



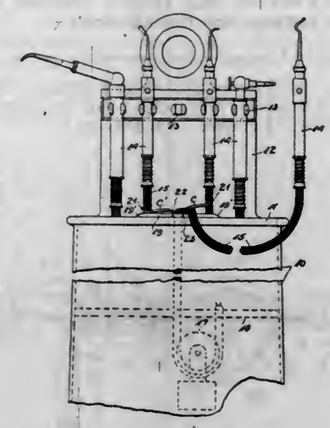
1. A mitered joint bracket comprising a flat intermediate angle plate, a flat angle toe plate, curved arms integrally connecting said toe plate with said intermediate angle plate, a flat angled heel plate disposed in a plane parallel to the intermediate angle plate, and curved arms integrally connecting said heel plate with said intermediate angle plate.

1,694,668. OIL-TANK BAFFLE. ARCHIE R. PETERS, Winfield, Kans., assignor of one-half to The Guiberson Corporation, Dallas, Tex., a Corporation of Delaware. Filed Feb. 28, 1928. Serial No. 257,618. 9 Claims. (Cl. 210—51.)

1. In combination with a tank, a baffle in spaced relationship to the bottom of the tank defining an extended area for the accumulation of that portion of the tank contents having greatest specific gravity, a discharge pipe line extending outwardly through the tank and from beneath the baffle for the withdrawal of the precipitate, and a vent pipe communicating with the under side of the baffle and terminating at a point spaced from and above the intake of said discharge pipe line and extending upwardly to a point above the oil level of the tank, said pipe being open at both ends to air and liquid.

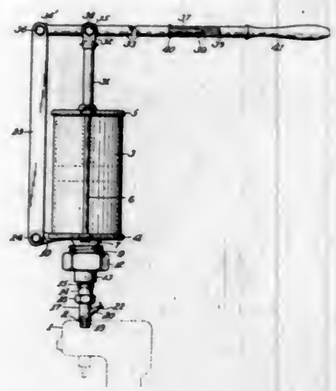


1,694,669. CORD-HOLDING STRUCTURE. OSCAR H. PIEPER, Rochester, N. Y. Filed Apr. 2, 1926. Serial No. 99,297. 5 Claims. (Cl. 32—5.)



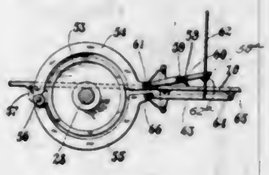
1. In a dental unit, the combination of a supporting body, instruments supported thereon, cords extending from said instruments to the interior of the body, means exerting tension on said cords tending to prevent withdrawal of said cords from said body, and a clip placed on said body and under which any one of said cords may be slipped when in use to be held against the force of its tension means to thereby relieve its instrument from the tension.

1,694,670. ENGINE-TROUBLE DIAGNOSER. JAMES HENRY RICHARDS, Glendale, Calif. Filed Apr. 29, 1926. Serial No. 105,513. 3 Claims. (Cl. 73—51.)



1. In an instrument of the character described, the combination of a hollow cylinder, a bottom head and a top head detachably secured to the cylinder, the bottom head having a lateral fulcrum arm and also a neck integral therewith, the neck and head having an unobstructed duct therethrough and the neck being externally screw-threaded for a pipe-union nut, a pair of link bars pivoted to said arm, a double-action piston in the cylinder, a solid piston rod secured to the piston and guided in said top head, and a sectional lever pivotally connected with the piston rod and also with the link bars.

1,694,671. MOTOR-ROLLER-SKATE BRAKE. MICHELE RODELLI, Brooklyn, N. Y. Filed Jan. 10, 1927. Serial No. 160,057. 2 Claims. (Cl. 188—74.)



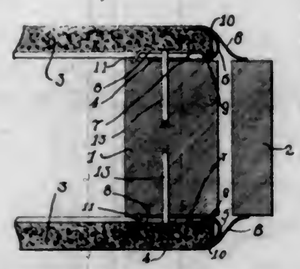
1. A brake of the class described comprising, a brake drum, a plate, brake shoes pivotally attached to the plate, said brake shoes adapted to encircle the said brake drum, a lever pivotally attached, intermediate thereto, to the plate, said lever pivotally attached to the said brake shoe, a flexible member attached to the said lever, a second lever pivotally attached at one extremity to the plate, said second lever pivotally attached to the second brake shoe, the flexible member attached intermediate to the second lever, said flexible member extended upwardly therefrom.

1,694,672. HAIR-CURLING MEANS. MAX ROGLER, Duesseldorf, Germany. Filed July 27, 1925, Serial No. 46,233, and in Germany Feb. 23, 1925. 6 Claims. (Cl. 132—32.)



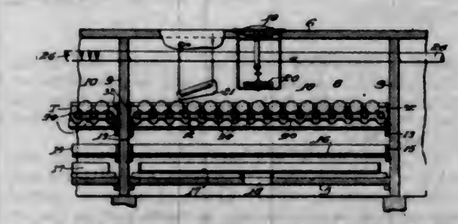
1. A hair curling or crimping device, comprising tongs adapted to be heated, and a vapor generator on one of the members of the tongs adapted for generating vapor under the heat of the tongs and having vapor outlets opening through its surface.

1,694,673. PLASTER CASING. WINGATE SPIES THOMAS, Chicago, Ill., assignor to Knapp Brothers Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1926. Serial No. 87,525. 10 Claims. (Cl. 72—98.)



1. In a plaster casing, a sheet metal member having a base portion, an arcuate abutment at one edge of said base portion, and an integral vibration absorbing wing extending from said arcuate abutment.

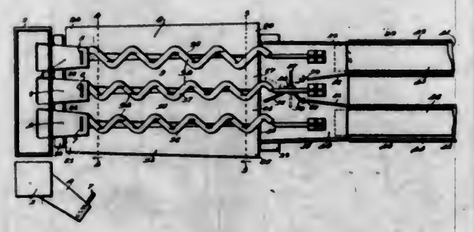
1,694,674. INCUBATOR. HAROLD L. WATSON, Highland Park, N. J., assignor, by mesne assignments, to American Incubators, Inc., New Brunswick, N. J., a Corporation of New Jersey. Filed Jan. 10, 1925. Serial No. 1,551. 15 Claims. (Cl. 119—44.)



1. A tray for an incubator comprising a frame, a plurality of laterally spaced rollers rotatably supported in the frame, a removable floor having a main section, a movable section hinged to the main section, and means for holding the movable section in alignment with the main section, and means comprising slides carried by the frame and provided with cam surfaces operative to raise or lower the floor with respect to the rollers to arrange the floor below and out of contact with the rollers to permit rotary movement of the same and to elevate the floor to a position adjacent the rollers to support the eggs and chicks during the hatching period.

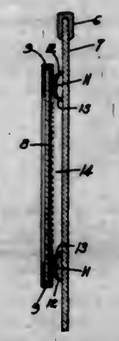


1,694,675. FRUIT-CLEANING MECHANISM. EDWARD A. WHITE, Lewiston, Idaho. Filed Oct. 23, 1926. Serial No. 143,655. 12 Claims. (Cl. 146—202.)



3. In a fruit cleaning machine, cone-shaped cleaning rollers rotating about parallel axes and the larger ends being in relatively close adjacency whereby the fruit path formed thereby will be angular to the axes of said rollers, and means rotating about an axis parallel with respect to said fruit path and angular to the axes of said rollers for advancing the fruit therebetween and therealong.

1,694,676. ANTIFROSTING DEVICE FOR WINDOWS. CARL H. WILL, Minneapolis, Minn., assignor to C. H. Will Motors Corporation, Minneapolis, Minn., a Corporation of Minnesota. Filed Mar. 21, 1925. Serial No. 17,285. 5 Claims. (Cl. 20—40.5.)



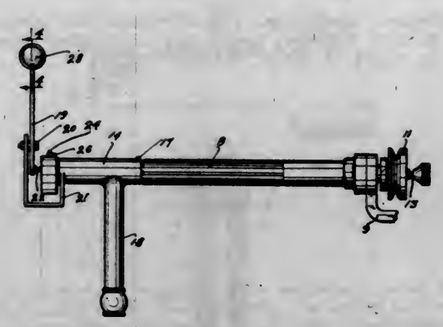
1. A frame of elastic material having a transparent window sealingly secured therein, and further having a continuous semi-tubular suction channel connected by its central portion only and having opposite support-engaging edges in a plane parallel with the face of the frame, and defining and surrounding a central inner space, and non-communicating with said space, during and after application to a support, and forming with the window an interior non-suction chamber.

1,694,677. ANTIFROSTING DEVICE FOR WINDOWS. CARL H. WILL, Minneapolis, Minn., assignor to C. H. Will Motors Corporation, Minneapolis, Minn., a Corporation of Minnesota. Original application filed Mar. 21, 1925, Serial No. 17,285. Divided and this application filed June 4, 1928. Serial No. 282,679. 3 Claims. (Cl. 20—40.5.)



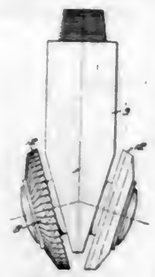
1. An attachment for windshields comprising a transparent plate, removable suction cups attached thereto for connecting the plate with the windshield, a strip of resilient material extending around the edge of the plate and having a groove for receiving the edges of the plate and said strip extending at right angles to the body of the plate and formed with an opening extending longitudinally through the strip adjacent its outer edge so that this edge which engages the windshield will flex to provide a tight joint between the strip and windshield.

1,694,678. AMALGAMATOR ATTACHMENT. INGVALD G. BERGH and LAWRENCE NELSEN, Watertown, S. Dak. Filed Oct. 25, 1926. Serial No. 143,991. 3 Claims. (Cl. 259—75.)



1. An amalgamator attachment for the hand piece of a dental engine comprising a body member applicable to said hand piece, an arm intermediately pivoted to the body member, a capsule rigidly secured to the long end of the arm and having a displaceable cup, and a rotor operative on the short end of the arm for imparting long quick intermittent oscillatory movements thereto, said rotor being arranged to be operated by the driven chuck of such a hand piece for rotation therewith.

1,694,679. WELL-DRILLING TOOL. LESTER C. BLACK, Los Angeles, Calif. Filed Oct. 20, 1924. Serial No. 744,565. 7 Claims. (Cl. 255—71.)



1. A self sharpening rotary cutter for boring drills comprising a disc having an annular marginal portion inclined to a plane normal to the axis of rotation of the disc, a circumferential contact surface, a plurality of spaced ribs on the rear surface of the marginal portion extending across the marginal portion to said contact surface and causing said surface to have a toothed rear edge, one side of each rib being substantially perpendicular to the plane of the marginal portion.

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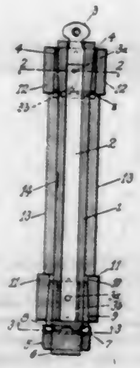
1,694,680. FOOD PRODUCT AND PROCESS OF PRODUCING THE SAME. EDWARD F. BURTON and JAY H. MONTGOMERY, Los Angeles, Calif., assignors to Honey-Butter Company, Los Angeles, Calif., a Corporation of California. Filed July 12, 1926, Serial No. 122,036. Renewed Aug. 8, 1928. 3 Claims. (Cl. 99—11.)

1. A process of making a homogeneous emulsion of butter and honey, which comprises admixing butter and honey in syrup form together, adding a blending agent, and agitating the ingredients together until a homogeneous solid mass is obtained, the ingredients being maintained at a temperature below the melting point of the butter throughout the process.

2. A food product comprising butter, honey in syrup form, and egg albumen emulsified together to form a product of substantially the consistency of butter.

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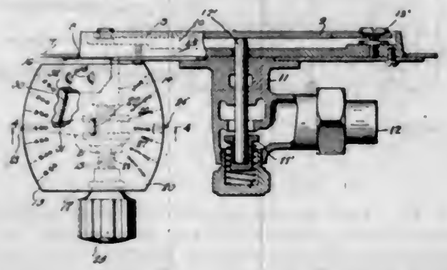
1,694,681. PIVOT BOLT FOR AUTOMOBILES. ARTHUR G. BUSH, Davenport, Iowa. Filed Jan. 16, 1926. Serial No. 81,819. 6 Claims. (Cl. 287—100.)



1. A pivot bolt having a tapered head and straight body and mounting therefor comprising a central knuckle firmly secured to the bolt, a yoke pivoted upon the ends of the bolt, a tapered bushing mounted upon the tapered head of the bolt and within the upper end of the yoke, the lower end of the yoke being tapered internally and forming a seat for an externally tapered bushing which is mounted upon the lower end of the bolt, and means which exert pressure upon the tapered bushings to secure them in close contact with the tapered head and tapered seat respectively.

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1,694,682. OVEN-HEAT-REGULATING DEVICE. EMIL I. CLAUS and WALTER E. CLAUS, Milwaukee, Wis., assignors, by direct and mesne assignments, to Claus Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 14, 1922. Serial No. 594,606. 7 Claims. (Cl. 116—124.)



1. In a device of the character described, a fuel control valve, thermo-actuated means for operating the control valve, an indicating dial, an indicator pivotally connected with the dial to traverse the same and indicate the adjustment of the thermo-actuated means, and means connecting the indicator with the thermo-actusted means, said indicator being connected with the thermo-actuated means to one side of its point of pivot.

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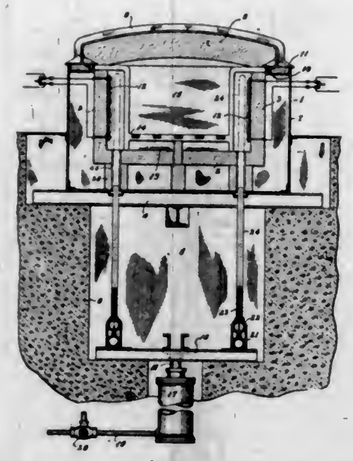
1,694,683. CABLE CLAMP. ELMER K. COLE, Winterset, Iowa. Filed Feb. 1, 1927, Serial No. 165,186. Renewed Sept. 4, 1928. 5 Claims. (Cl. 24—126.)



1. A cable clamp comprising a body portion having a screw threaded opening, a clamp portion having a conical recess, the base of the clamp portion being connected to said body portion, the interior of said clamp portion being formed with helical grooves, a conical wedge member having its outer surface provided with helical grooves, and a screw threaded bolt for said opening, said grooves being substantially of the same diameter and pitch as the strands of the cable to be clamped.



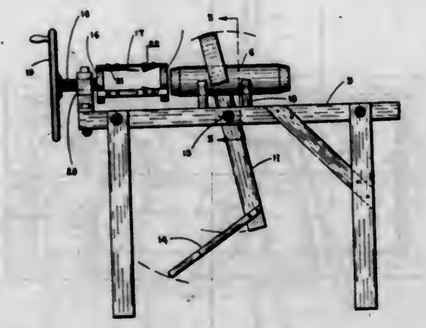
1,694,684. ANNEALING FURNACE. FRANK T. COPE, Salem, Ohio, assignor to The Electrical Furnace Company, Salem, Ohio, a Corporation of Ohio. Filed Nov. 9, 1925. Serial No. 67,811. 7 Claims. (Cl. 263—44.)



1. An annealing furnace including a heating chamber, heating means at the side of the heating chamber, means for supporting material spaced from the heating means, a cooling pipe between the heating means and material and means for circulating a cooling fluid through said pipe.

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1,694,685. MACHINE FOR SHAPING THE ENDS OF HOLLOW DUCTS. JULIUS HEIN, Lakewood, Ohio. Filed Sept. 29, 1927. Serial No. 222,924. 1 Claim. (Cl. 144—205.)

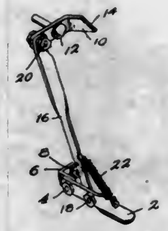


The combination with a work clamp, of a hollow head into which the end of the work may enter and having a set of longitudinal bars, sets of inside and outside scarfing cutters attachable to the inner side of said bars, and means to rotate and advance the head.

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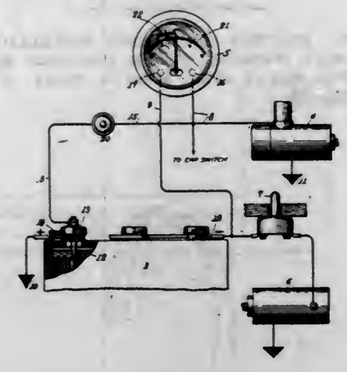
1,694,686. FURNACE-DOOR OPENER. ARTHUR W. HUNT, Kansas City, Mo. Filed Jan. 13, 1925. Serial No. 2,124. 1 Claim. (Cl. 110—178.)

The combination with a furnace having a door mounted thereon to swing horizontally and provided at one end with a catch, said furnace having a hook mounted on the front thereof arranged to engage said catch, of a door opening mechanism comprising a lever pivotally mounted between its ends and having at one end an inclined portion arranged to release said catch from said hook and open the door, a pedal, a link operatively connecting said pedal with the other end of said lever, and a spring tending to hold the pedal in inoperative position.



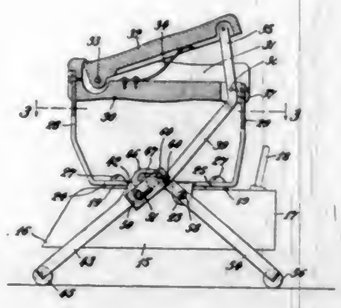
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1,694,687. ELECTROLYTE-LEVEL GAUGE. THOMAS MCCARTIE, Newark, N. J. Filed Oct. 7, 1926. Serial No. 140,056. 2 Claims. (Cl. 177—311.)



1. In an electrical system of the character disclosed, the combination with a storage-battery, a generator for keeping said battery charged, an ammeter and connections by which said ammeter is normally connected in service relation with said battery and generator to give a continuing reading of the battery-generator conditions, of an electrolyte measuring electrode supported to dip into the electrolyte of the storage battery, and a local circuit for said electrolyte measuring electrode and by which the electrode may be connected into the same ammeter and battery circuit previously mentioned to thereby enable said ammeter to give a battery electrolyte level reading, in addition to the reading which it normally furnishes of the battery-generator conditions.

1,694,688. SUPPORT ATTACHMENT FOR FLATIRONS. JOSEPH PANDOLFO, New York, N. Y., assignor of one-third to Max D. Ordmann, New York, N. Y. Filed Dec. 3, 1924. Serial No. 753,628. 5 Claims. (Cl. 68—26.)



1. In a device of the character described, a body having a handle, a movable member carried by and normally impelled upwardly from said handle so as to be automatically actuated when said handle is grasped, means pivoted to said body and serving to support the latter in front and at the rear at an elevation when not in use, a connection between said member and said supporting means to raise the latter into non-supporting position and a connection between said supporting means preventing the front supporting means from accidentally dropping below the body when said handle is released.

1,694,689. PROCESS OF MAKING METALLIC RIMS FOR BULL WHEELS. CARL B. PRITCHARD, Scottdale, Pa. Filed May 13, 1925. Serial No. 29,913. 3 Claims. (Cl. 153—2.)



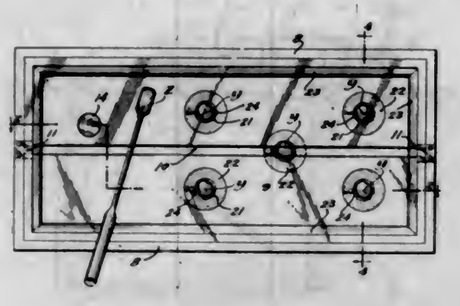
1. The method of forming a one-piece bull wheel rim which consists in providing a continuous annular metallic blank, locking said blank against axial movement while displacing the region centrally of and spaced from its edges radially to produce a corrugated surface, then subjecting a marginal edge of the partially formed rim beyond the corrugated surface to a bending force without disturbing the previously formed corrugations to displace said marginal edge radially inward to produce an inturned flange.

1,694,690. SECTIONAL PARTITION. WILLIAM J. REINHOLD, San Francisco, Calif., assignor to Pacific Manufacturing Company, San Francisco, Calif., a Corporation of California. Filed June 27, 1927. Serial No. 201,612. 14 Claims. (Cl. 20—4.)



9. In a sectional partition, a pilaster comprising a post having a groove formed in one side thereof for receiving metal wiring conduit, a finishing strip adapted to cover said groove, and spring clips for detachably retaining said strip upon the post.

1,694,691. GOLF GAME APPARATUS. FRANK RENTZ, Yankton, S. Dak. Filed Nov. 28, 1927. Serial No. 236,163. 17 Claims. (Cl. 273—87.)



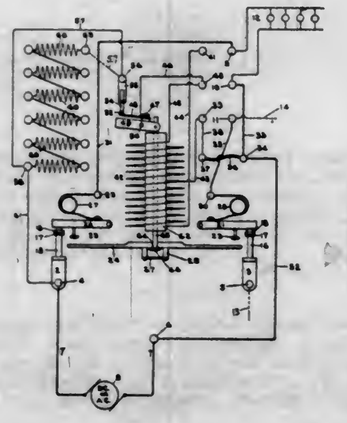
1. A golf game apparatus comprising a deck affording a fairway having holes extending through the deck, gate mechanism normally closing the holes for holding balls therein, means for operating the gate mechanism to release the held balls and means for returning the released balls to the fairway.

1,694,692. MAGNETIC CIRCUIT-CONTROL APPARATUS. SEVERIN SEABERG and HARRY W. ANDERSON, Moline, Ill. Filed Oct. 28, 1924. Serial No. 746,360. 10 Claims. (Cl. 175—375.)

1. In a magnetic circuit control apparatus for controlling the flow of current through a load circuit, a pair



of switches having magnetic means connected therewith for opening both switches, in combination with means for timing the reclosing of the switches, comprising means for



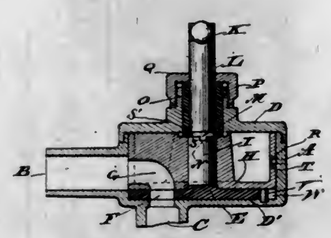
simultaneously varying the times the switches are open and closed and means for relatively varying the open and closed periods.

1,694,693. COMBINATION CORSET AND BRASSIÈRE. ROSANNA DU FORA ULMAN, Aurora, Ill., assignor to International Corset Company, Aurora, Ill., a Corporation of Illinois. Filed June 22, 1927. Serial No. 200,680. 1 Claim. (Cl. 2—30.)



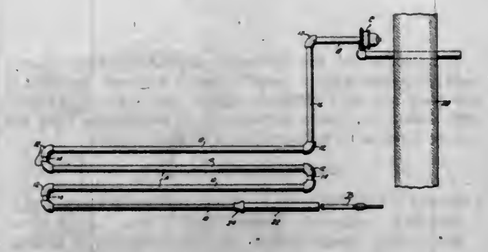
A combination garment, comprising a corset, and brassière permanently connected to the corset at the front in line with the upper edge thereof for a substantial circumferential extent, said brassière having its lower edge inclined upwardly and rearwardly from its connection with the upper front edge of the corset adjacent each side of the garment to the center of the back, whereby bulging out of the wearer's body above the upper front line of the corset is prevented and freedom of body movement between the sides and back of the corset and brassière portions of the garment is permitted.

1,694,694. DRAFT FAUCET. HARRY E. WALKER, Elyria, Ohio. Filed Oct. 5, 1925. Serial No. 60,651. 5 Claims. (Cl. 25—184.)



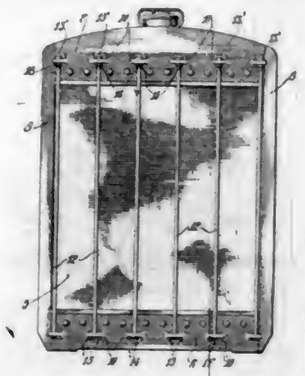
1. In a dispensing valve, a casing closed at one end and having a valve seat in said closed end, a rotatable valve on said seat and an adjustable valve seat mounted upon said valve in said casing, said casing being provided with a lateral inlet opening and with a longitudinal outlet opening, and said valve and adjustable seat provided with outlet openings registering with said casing outlet.

1,694,695. HEATER. JAMES W. SLADE, New York, N. Y. Filed July 5, 1927. Serial No. 203,390. 1 Claim. (Cl. 126—84.)



A heat generator comprising a relatively long tubular member of substantially uniform diameter, a second tubular member relatively shorter, and of larger diameter than said first-mentioned tubular member, said second-mentioned tubular member being secured to one end of the first-mentioned tubular member and having communication therewith, said second mentioned tubular member constituting a flame chamber having an open end, a fuel burner arranged adjacent the open end of the second-mentioned tubular member and adapted to project its flame in the direction of the open end of the second mentioned tubular member, and into the interior thereof said burner being spaced with respect to the open end of the second-mentioned tubular member, and a blower for creating a draft of air through the tubular members and for drawing the flame of the burner into the open end of said second-mentioned tubular member substantially as described.

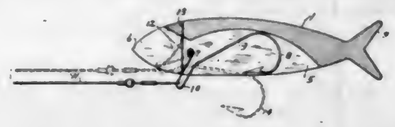
1,694,696. RADIATOR. FRED M. YOUNG, Racine, Wis. Filed July 27, 1928. Serial No. 295,695. 4 Claims. (Cl. 293—54.)



1. In a radiator construction including end members having aligned apertured lugs and a guard rod passed through the apertures of the aligned lugs, a flared head on one end of the rod, and a nut threaded on the other end of the rod and placing a strain thereon.

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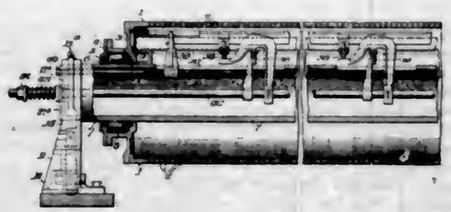
1,694,697. WEEDLESS FISH BAIT. FRED W. BELDATSCH, Milwaukee, Wis. Filed July 18, 1927. Serial No. 206,459. 8 Claims. (Cl. 43—35.)



1. A device of the character described, comprising a body provided with a longitudinally disposed slot and a fish hook pivotally mounted within the slot and provided with a shank having a curved portion protruding from the slot to form an attachment for a leader.

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1,694,698. SUCTION ROLL FOR PAPER-MAKING MACHINES. EARL E. BERRY, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a Corporation of Wisconsin. Filed May 5, 1923, Serial No. 636,863. Renewed Mar. 9, 1925. 37 Claims. (Cl. 92—53.)



1. The combination with a suction roll of a suction chamber arranged therein and having side walls contacting with and extending inwardly from the interior surface of the roll, said side walls having flexible buckled or bow-shaped portions permitting spring-like contact between said walls and said roll.

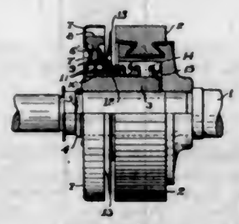
1,694,699. TOOL FOR ROTATING VALVE HEADS. RICHARD E. BISSELL, Cleveland Heights, Ohio, assignor to Thompson Products Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 2, 1926. Serial No. 126,352. 3 Claims. (Cl. 51—29.)



1. A valve grinding tool comprising a flat spring member looped at its center portion with its ends curved downwardly and outwardly from the central loop to provide spring gripping members, a pin loosely connected with the loop for pivotal and sliding motion, and a plate mounted on the pin for pivotal and lateral motion in respect thereto.

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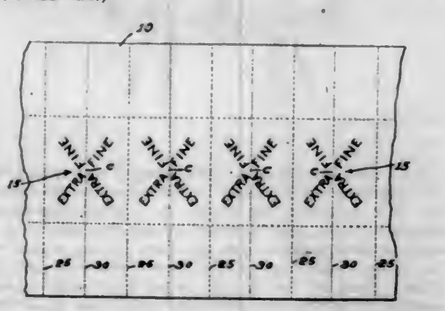
1,694,700. CENTRIFUGAL OPERATING MECHANISM. WALTER J. BRANSON, Springfield, Ohio., assignor, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio, a Corporation of Ohio. Filed Sept. 28, 1926. Serial No. 138,305. 4 Claims. (Cl. 172—279.)



1. In a centrifugal operating mechanism, a rotatable member, a plurality of freely-floating weights rotatable therewith and movable radially outwardly by centrifugal force, each of said weights having a pair of anti-friction balls in rolling contact with each other, a member having a surface on one side of said weights co-operating with one of the balls of each pair, and a spring pressed axially movable member on the opposite side of said weights having a surface in contact with the other ball of each pair, each of said surfaces being inclined with the surfaces converging outwardly and extending uniformly about the entire faces of said members.

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1,694,701. ADVERTISING WRAPPING FOR PACKAGES. NATHAN EDWIN COVEL, Newtonville, Mass. Filed July 19, 1926. Serial No. 123,322. 3 Claims. (Cl. 283—21.)

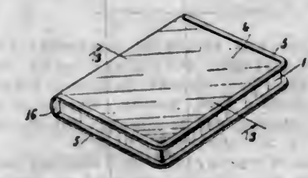



1. An advertising wrapper for parallel epipedal packages having side faces of equal area comprising a wrapping strip on which advertising matter is displayed in successive sets of indicia lengthwise the strip, each set of indicia being arranged in the form of a cross comprising words or symbols which are duplicated on each side of a transverse line through the intersection of the bars of the cross, said crosses being spaced from center to center a distance equal to the width of a side face of the package to be wrapped whereby said strip may be folded about the package on either one of two series of transverse lines and yet present the complete advertisement on each side face of said package.



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1,694,702. VANITY CASE. BENJAMIN BERNARD DEITEL, Brooklyn, N. Y. Filed July 11, 1928. Serial No. 291,809. 3 Claims. (Cl. 132—83.)



1. A container made of two parts, one of said parts comprising an open frame constituting the walls of said container, and the other part comprising a flat open frame hinged to said first mentioned frame, outwardly projecting flanges on said first mentioned frame at one of its peripheries, a cover plate conforming to the shape of said first mentioned frame and constituting the bottom of said container, a cover plate conforming to the shape of said flat open frame and constituting the top of said container, a facing extending over said cover plates and over the hinged portions of said frames, a separate channel member clamping said facing and said bottom cover plate to said flanges, and a separate channel member clamping said facing and said top cover plate to the edges of said flat open frame.

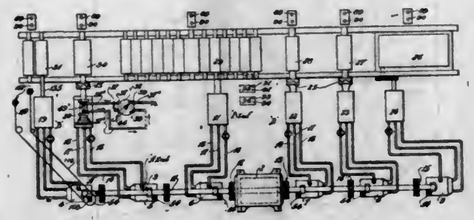
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1,694,703. BEADED ARTICLE OF JEWELRY. FRIEDRICH DÖPPENSCHMITT, Pforzheim, Germany. Filed Dec. 4, 1923, Serial No. 678,481, and in Germany Jan. 22, 1923. 1 Claim. (Cl. 63—11.)



A form-sustaining resilient beaded article of jewelry comprising a spring steel core, a tubular covering of flexible, close-mesh wire fabric enveloping the core, and a string of beads surrounding the covering from end to end thereof in abutting contact with each other, said covering presenting a supplemental display surface of complementary character with respect to the display surfaces of the beads for maintaining a generally uniform appearance of the article in the event of the gapping of the beads and the exposure of the covering therethrough.

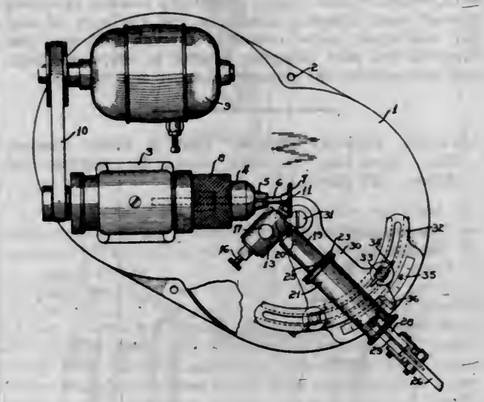
1,694,704. VARIABLE-SPEED CONTROL FOR PAPER-MAKING MACHINES. HAROLD F. DUNBAR, Turners Falls, Mass. Filed Oct. 12, 1926. Serial No. 141,227. 12 Claims. (Cl. 92—38.)



1. In a paper making machine, the combination with the several sectional units, means for controlling the rate of rotation of each section, and means for simultaneously controlling the rate of rotation of all of the units, comprising a main motor, a plurality of hydraulically operated and smaller motors operated from the main motor, and means for individually operating the units of the machine from the said smaller motors.

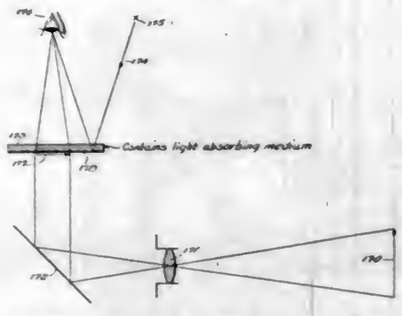
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1,694,705. VALVE HONE. ERNEST A. HALL, Toledo, Ohio, assignor to The Hall Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 16, 1927. Serial No. 219,843. 2 Claims. (Cl. 51—67.)



1. In a valve grinding tool, a base, a valve holder on the base, a grinding support on the base mounted so that its axis is parallel to the surface of the valve to be ground, a shaft slidable in said support, a housing having a bore to receive an abrading element adjustable therethrough normal to the surface to be ground, means to mount said housing on the shaft so as to lie at right angles thereto, and lever mechanism connected to the support and to said shaft for effecting reciprocation of the shaft.

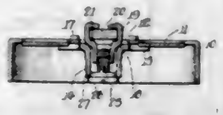
1,694,706. SCREEN. ALFRED HERZ, Chicago, Ill. Original application filed Jan. 22, 1917, Serial No. 143,613. Divided and this application filed Dec. 16, 1926. Serial No. 155,135. 4 Claims. (Cl. 88—24.)




1. In a screen of the class described, a plate of transparent material having embodied therein a light obstructing substance, one surface of said plate being ground or matted.

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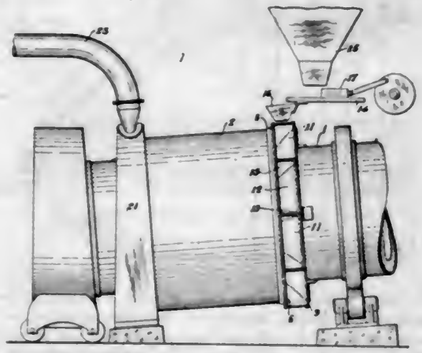
1,694,707. OUTLET BOX. CHESTER A. JOHNSON, Chicago, Ill., assignor to Chicago Jefferson Fuse & Electric Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1924. Serial No. 719,708. 13 Claims. (Cl. 247—22.)



3. An outlet box comprising, in combination, a box, a removable stud positioned inside said box having an unvarying relation therewith, a clamping member extending through the back of said box into said stud and movable with respect to said stud, a supporting member extending through said clamping member across the back of said box, and screw means extending through said stud and threaded into said clamping member to effect said relative movement of the clamping member and the stud.

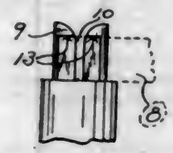
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1,694,708. ROTARY DRIER. FRED A. JONES, Canton, Ohio. Filed Mar. 24, 1928. Serial No. 264,548. 16 Claims. (Cl. 34—6.)



1. In combination with an inclined rotary kiln, longitudinal pockets surrounding the kiln, means for charging material to be dried into the upper ends of the pockets and for discharging the material from the lower ends of the pockets.

1,694,709. BRUSH HOLDER FOR ELECTRIC GENERATORS OR MOTORS. ROGER G. LAFITE, Kansas City, Mo. Filed Dec. 15, 1926. Serial No. 154,906. 2 Claims. (Cl. 171—324.)




1. In a device of the character described, a brush holding spring, a spring supporting post having a slot therein adapted to receive one end of said spring and an abutting shoulder adjacent said slot adapted to engage the spring at a point where said spring leaves said slot to curl about said post.

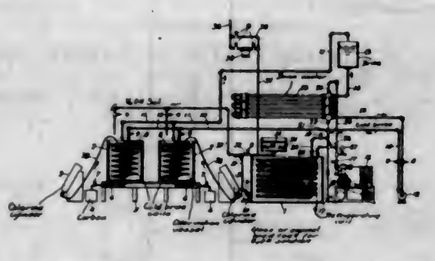
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1,694,710. PROCESS FOR THE RECOVERY OF ZINC FROM ZINC-BEARING SOLUTIONS. NILS ERIK LENANDER, Lokken Verk, Norway, assignor to Orkla Grubeaktiebolag, Lokken Verk, Norway. Filed June 9, 1926. Serial No. 114,828, and in Norway May 22, 1925. 3 Claims. (Cl. 23—147.)

1. A process of treating metal salt solutions containing in addition to zinc chloride also some magnesium salt, comprising in combination the steps of adding to the solution an amount of lime less than that required to convert the zinc contents into zinc hydroxide, removing the resulting precipitate comprising basic zinc chlorides from the mother lye, mixing the precipitate with an amount of lime which is not greater than that equivalent to the basic zinc chlorides, and heating the mixture at atmospheric pressure to a temperature not above about 70° C., whereby the zinc hydrate of the reaction product is converted into zinc oxide.

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1,694,711. METHOD FOR THE MANUFACTURE OF JAVELLE WATER. HARRY D. LEVINE, Philadelphia, Pa. Filed May 7, 1925. Serial No. 28,661. 2 Claims. (Cl. 23—86.)



2. The process of forming Javelle water consisting of rapidly refrigerating a caustic soda solution to bring the same to a temperature substantially that of the freezing point of water, and maintaining the refrigerated solution at substantially said temperature constantly while discharging chlorine gas thereinto.

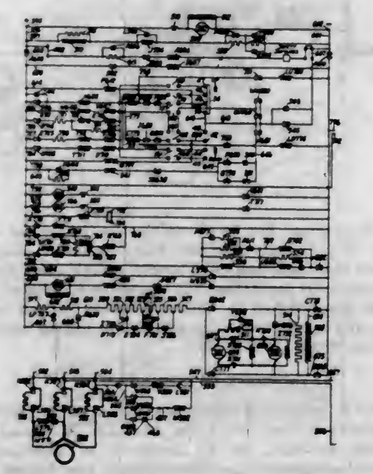
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1,694,712. ELEVATOR SYSTEM. DAVID L. LINDQUIST, Hartsdale, N. Y.; EDWARD L. DUNN, East Orange, N. J.; and DAVID C. LARSON, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed May 21, 1925, Serial No. 31,953. Divided and this application filed Nov. 7, 1925. Serial No. 67,589. 10 Claims. (Cl. 172—152.)

1. An electric elevator system comprising, a motor, a generator for supplying current to said motor at a variable



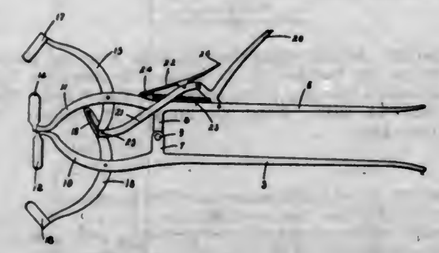
voltage, a field winding for said generator, a source of current for said winding, a resistance in circuit with said winding, means for short-circuiting the resistance in pre-



determined steps during acceleration of said motor, and means for increasing the amount of resistance in the last step, after it is short-circuited during acceleration, for reinsertion during retardation of said motor.

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1,694,713. ANIMAL-MOUTH TONGS. WILLIAM GEORGE MACLEAN, Jr., Arnprior, Ontario, Canada. Filed Mar. 5, 1928. Serial No. 259,286, and in Canada Feb. 13, 1928. 11 Claims. (Cl. 128—14.)

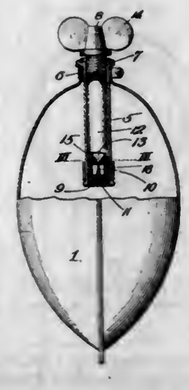


1. Animal mouth tongs comprising a pair of co-operating handles fulcrumed together; the forward ends of said handles converging and each provided at its outer extremity with a bit; a clamping member pivotally carried by each forward end and each provided at its outer extremity with a clamping jaw and a lever for operating said clamping members.

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1,694,714. INFLATABLE LIFE PRESERVER. PETER MARKUS, Kansas City, Mo. Filed July 15, 1927. Serial No. 205,975. 1 Claim. (Cl. 9—19.)

The combination with an inflatable waterproof member having a filling neck, a tube projecting into the member through said filling neck and having a waterproof joint therewith, a piercing point at one end of said tube, a cartridge opposed to said piercing point, and means closing



the other end of said tube with an air-tight joint and longitudinally adjustable thereof to force the cartridge against the piercing point.

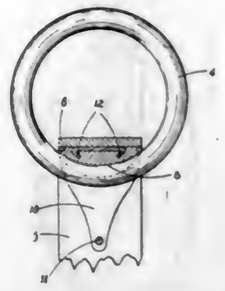
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1,694,715. CONTACT DEVICE FOR ELECTRICALLY-ENERGIZED IMPLEMENTS. MICHAEL W. MCARDLE, Chicago, Ill. Filed Mar. 18, 1927. Serial No. 176,376. 4 Claims. (Cl. 173—338.)



1. A contact member for an electrically energized implement comprising a mounting member adapted for securement to the frame structure of the implement to be served and having its surface for receiving the contact of the posts provided with insulated area; a plate having a pair of apertures for contact posts; insulations applied on the opposite surfaces of said plate having apertures of less diameter than those of the plate, positioned for registering with the plate apertures respectively, and means for holding the insulations with their apertures thus registered; a pair of headed contact posts diametered for fitting the lesser diametered holes of the insulations and inserted through the registered apertures of the insulations and plate, with their heads stopped by the insulation at one side of the plate; said plate being applied on the mounting member with the side at which the heads of the posts stand facing the said receiving surface of the mounting member and with said heads lodged on the insulated area of the latter; a clamping bolt extending through the plate insulated therefrom into the mounting member for clamping the plate to the mounting member and clamping the heads of the contact posts between the insulations carried by the plate and mounting member respectively, and means for securing circuit wires to the posts respectively.

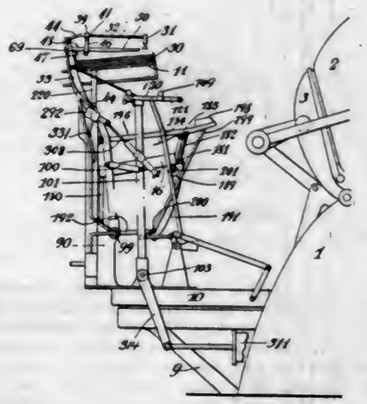
1,694,716. HARNESS FERRULE. MELCHER MILLER, Leipzig, Saskatchewan, Canada, assignor of one-half to Ludwig Stiefel, Leipzig, Saskatchewan, Canada. Filed Apr. 30, 1928, Serial No. 274,115, and in Canada Mar. 28, 1928. 2 Claims. (Cl. 24—183.)



1. A harness ferrule comprising a wearing member, one face of which is of curved, convexed formation, the other face being of rounded formation and a retainer member engageable over the rounded face and adapted to be suitably connected in a strap loop.

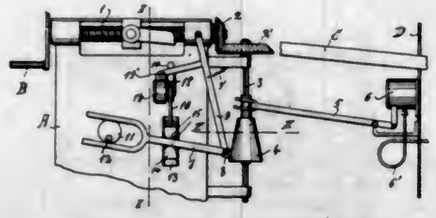
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1,694,717. SHEET-FEEDING MECHANISM. LEWIS E. MORRISON, Newark, N. J., assignor to American Type Founders Company, a Corporation of New Jersey. Original application filed Apr. 9, 1925, Serial No. 21,777. Divided and this application filed Feb. 6, 1926. Serial No. 86,371. 1 Claim. (Cl. 271—62.)



The combination with means for separating and removing the top sheet from a pile of sheets, of a platform, a paper elevator comprising supports for said platform, a shaft, cables between the latter and the said supports to raise the same, a ratchet for rotating said shaft, a pawl for operating the ratchet, a feeler member for causing said pawl to engage the ratchet, means for supporting said feeler member to contact with the top sheet of the pile, devices for maintaining said feeler member out of contact with the paper while the top sheet is being separated and removed therefrom, means mounted on the said separating and removing means for operating said maintaining means away from the feeler member and other means on said separating and removing means for operating the said ratchet.

1,694,718. DYNAMIC AND EFFICIENCY METER. EMIL PETERS, Crefeld, Germany. Filed Nov. 1, 1922, Serial No. 598,451, and in Germany Nov. 8, 1921. 2 Claims. (Cl. 73—187.)



1. A counter for ascertaining the performance of a steam engine comprising indicating means, a rotary cam element for operating said means, means connected with the means for regulating the degree of admission of said engine and adapted to impart rotation to said cam element, and a pressure gauge adapted to impart axial reciprocation to said element.

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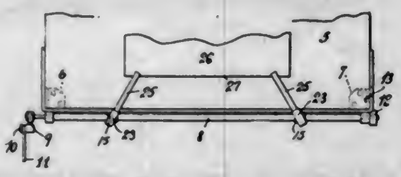
1,694,719. SUCTION NOZZLE FOR PRINTING PRESSES. STEPHEN HAINES PLUM, 2d., Madison, N. J., and HARRY DUFF, Brooklyn, N. Y., assignors to American Type Founders Company, a Corporation of New Jersey. Original application filed Aug. 14, 1924, Serial No. 731,910. Divided and this application filed June 23, 1926. Serial No. 117,919. 4 Claims. (Cl. 271—27.)



1. A suction nozzle of the character described comprising a nozzle support, a suction nozzle head, a shaft for pivoting the latter on said support and a spring secured to said nozzle head for removably securing the said shaft to the said nozzle head.

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1,694,720. SHEET-HOLDING DEVICE. STEPHEN HAINES PLUM, 2d, Madison, N. J., assignor to American Type Founders Company, a Corporation of New Jersey. Filed Sept. 14, 1927. Serial No. 219,411. 7 Claims. (Cl. 101—408.)



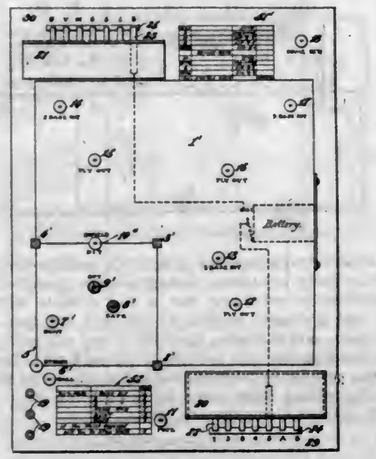
1. The combination with the platen of a press, of sheet holding resilient fingers pivoted on said platen for momentarily holding the delivery edge of the printed sheet against the platen and means for adjusting said fingers vertically with respect to the platen.

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1,694,721. ELECTRIC BASEBALL GAME. JAMES M. PRENTICE, Holyoke, Mass. Filed Dec. 14, 1927. Serial No. 239,898. 7 Claims. (Cl. 273—88.)

1. A baseball game comprising in combination, a game board, electric bulbs located thereon and designated to indicate different plays of the game, a diamond field represented on the game board, electrical connections connected to the electric bulbs, two series of player switches located

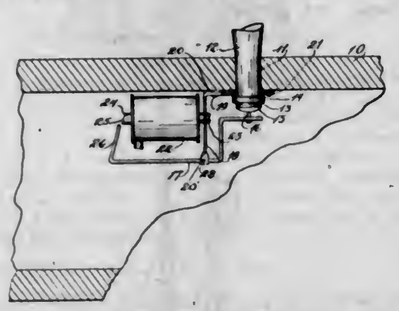




at the opposite ends of the board and with which the said connections are made, a shield for each series of switches for concealing the operation of the switches from the players.

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1,694,722. ELECTRICALLY-OPERATED ORGAN-VALVE CONTROL. CHARLES FLOYD REDMAN, Evansville, Ind. Filed Mar. 27, 1928. Serial No. 265,025. 4 Claims. (Cl. 84—339.)

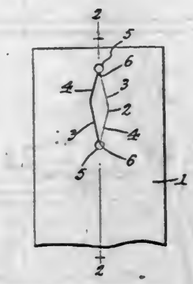


1. An electro-magnetic valve actuating device including a support, a magnet carried by the support and having a core projecting from one end, a fulcrum member at the opposite end of the magnet, an armature lever pivoted intermediate its ends to said fulcrum member and having a long arm and a short arm, the long arm of the lever extending longitudinally of the magnet and having its extremity bent to lie adjacent said core, and a pipe controlling valve mounted on the short arm of said lever.

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1,694,723. TAG. O. C. RICHARDSON, Chicago, Ill. Filed Apr. 22, 1925. Serial No. 25,086. 1 Claim. (Cl. 40—26.)

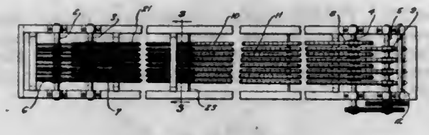
A tag of greater length than width and provided with spaced apertures and with an opening which is elongated in the direction of the length of the tag, the apertures being located in a line parallel to the length of the tag, the opening being diamond shaped and being in communication at its acute angles with the apertures, the slant edges that define the aforesaid acute angles converging toward the apertures at opposite ends of the opening, thereby to direct a button fastening into one of the apertures when the tag is moved in one direction parallel to its length, and to



direct the button fastening into the other of the apertures when the tag is moved in an opposite direction parallel to its length.

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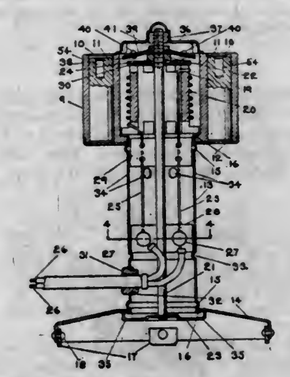
1,694,724. SEPARATOR. ARTHUR R. ROGERS, Jonesport, Me. Filed July 18, 1927. Serial No. 206,589. 3 Claims. (Cl. 209—102.)



1. A separator including a plurality of endless belts arranged side by side, said belts diverging toward one end to provide spaces therebetween gradually increasing in width toward one end, each belt including an endless rope and a plurality of separate pieces strung upon the rope and arranged end to end.

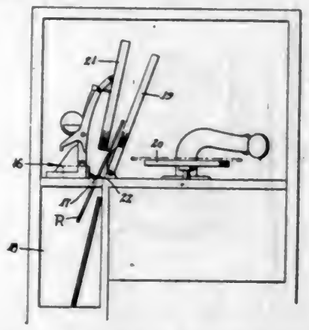
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1,694,725. HEATING APPARATUS. WARNER T. TABB, Mahwah, N. J. Filed Apr. 28, 1927. Serial No. 187,208. 4 Claims. (Cl. 219—19.)



1. A heating device comprising a tubular shell and longitudinally extending cylindrical recesses in the wall of said shell, said recesses being open at one end and otherwise substantially closed, and a tubular pedestal for said shell and a base for said pedestal and a heating means for said shell centrally positioned therein, and supply connections for said means internal of said pedestal.

1,694,726. COIN CONTROL FOR AUTOMATIC SOUND REPRODUCERS. GEORGE W. WERNER, Easton, Pa. Filed Aug. 5, 1927. Serial No. 210,916. 14 Claims. (Cl. 194—6.)



1. The combination with an automatic record changing sound reproducer, of coin controlled means for operating said sound reproducer, and record-operated means operable by the change of records by said sound reproducer and controlling said means to stop said sound reproducer.

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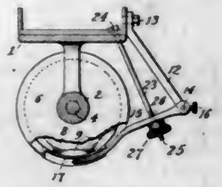
1,694,727. VANITY CASE. HARRISON L. ALLEN, Sherbrooke, Quebec, Canada, assignor to Canadian Sturdy Chain Company Limited, Sherbrooke, Canada. Filed Sept. 13, 1926. Serial No. 135,217. 4 Claims. (Cl. 132—82.)



1. In a vanity case, a powder receptacle having a top wall provided with perforations for the discharge of powder contained in said receptacle, a strap positioned beneath the perforations and provided with upwardly directed terminals supported from the top wall, a movable valve plate, and a spring confined between the central portion of the strap and the movable valve plate and normally holding the latter against the underside of the top wall in position to close the perforations.

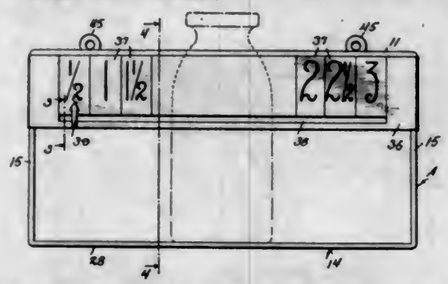
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1,694,728. RESTRAINING DEVICE FOR LENS-GRINDING MACHINES. CHARLES A. ADAMS, Davenport, Iowa, assignor to Optical Industries Corporation, Davenport, Iowa, a Corporation of Delaware. Filed Aug. 2, 1926. Serial No. 126,652. 4 Claims. (Cl. 51—111.)



1. In a machine of the character described a support, a pair of lens grinding tools carried by the support and adapted to operate in opposite directions, a lens carrying blocker adapted to be positioned between the tools, a bracket carried by the support, a vertically adjustable and horizontally swinging arm carried by the bracket, and means carried by the arm and engageable with the blocked for restraining the movement thereof.

1,694,729. MILK-BOTTLE HOLDER. ROSCOE C. BACON, Port Norris, N. J. Filed Feb. 2, 1926. Serial No. 85,566. 1 Claim. (Cl. 116—135.)



An indicating device for milk bottle holders comprising a longitudinally extending graduated plate provided with a longitudinally extending slot, a rod slidable within said slot, and a pointer carried by the said rod forwardly of said plate, said rod being provided at one end with a spring arm engaging the rear surface of the said plate for retaining the pointer in position while the other end thereof is provided with a finger piece for facilitating the movement of the pointer along the said plate.

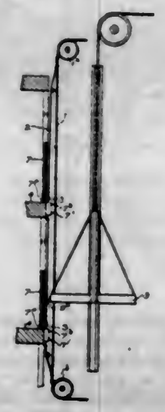
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1,694,730. IMPERVIOUS MATERIAL. WARREN F. BLEECKER, Boulder, Colo. Filed May 3, 1923. Serial No. 636,493. 2 Claims. (Cl. 106—9.)

1. An article of manufacture consisting of a solid body of artificial graphite, the voids of which are closed with sulfur.

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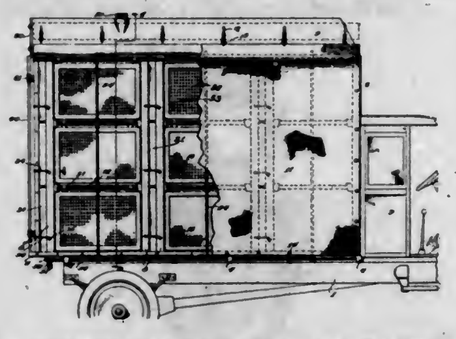
1,694,731. SAFETY DEVICE FOR ELEVATORS. JAMES ALEXANDER CARLTON, Toronto, Ontario, Canada, assignor to Massey-Harris Company, Limited, Toronto, Canada. Filed Aug. 18, 1927. Serial No. 213,817. 5 Claims. (Cl. 187—47.)



3. In a device of the character described the combination with an elevator, an elevator control cable and a gate, of a casing having two chambers arranged side by side in spaced relationship to one another, the sides of one chamber being cut away, the casing being provided with slots; cable and gate locking latches pivotally carried within the casing and having their upper ends received in the chambers, each latch having an end projecting through one of the slots; an arm carried by the gate adapted to engage the projecting end of the cable locking latch to move it to release the cable, the arm being bent intermediate its ends to lie in the said cut away portion of one of the chambers for engagement by the gate locking latch; and a shoe carried by the elevator for engaging the projecting end of the gate locking latch to release it when the elevator is at a landing.



1,694,732. TRUCK FOR TRANSPORTING POULTRY. LOUIS A. COHEN, Central City, Ky. Filed Mar. 12, 1926. Serial No. 94,257. 5 Claims. (Cl. 119—12.)



1. A vehicle for transporting poultry and the like comprising a supporting frame, spaced uprights secured upon said frame along the sides and transverse center thereof, transverse and longitudinal shelves detachably engaged with the uprights to be supported thereby, feed boxes resting upon the transverse shelves and forming partitions between adjoining compartments, floors supported at their edges by the several shelves and means on the uprights for preventing release of the feed boxes.

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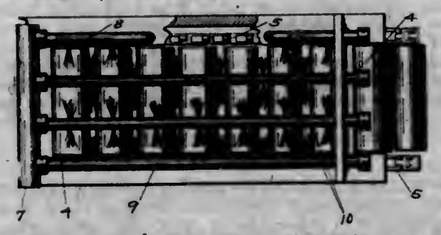
1,694,733. AUTOMOBILE CLEANING BRUSH. ROY M. CUMMINS, Barberton, Ohio. Filed Oct. 19, 1927. Serial No. 227,238. 3 Claims. (Cl. 15—29.)



1. A device of the class described comprising a brush head, a plate fixed to the head and having a series of impact blades carried thereby, a disk having inner and outer flanges carried thereby and defining a fluid receiving channel, a cover plate connected with the disk, the outer flange having nozzles therein, means for conducting water to the channel for discharge through the nozzles upon the blades to impart rotary movement to the plate and thus the brush head.

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1,694,734. SPRAY WASHER. FRANK W. CUTLER, Portland, Oreg. Filed Jan. 25, 1927. Serial No. 163,530. 4 Claims. (Cl. 146—194.)



2. In a spray washer: a cross roll conveyor; a pair of spray pipes, one disposed at each end of said rolls and orificed to impinge jets of spray longitudinally along said rolls; spray pipes intermediate said former pipes and orificed to impinge jets of spray longitudinally along said rolls, the orifice in each of said pipes being staggered relatively to the orifices in an adjacent pipe.

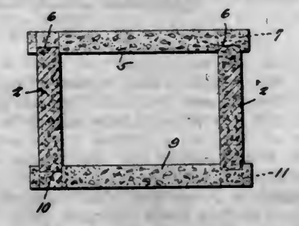
1,694,735. SUPPORTER FOR WEARING APPAREL. JAMES THOMAS ESKRIDGE, La Jara, Colo. Filed May 16, 1927. Serial No. 191,857. 1 Claim. (Cl. 241—4.)



A supporter for wearing apparel, comprising a pair of non-elastic straps, each strap having its ends secured together to form a loop, said loops being crossed in the front and the back of the wearer and the ends of the loops being disposed at the wearer's sides, a back band secured to the loop ends, and a pendant resilient supporting member secured to the loops at the junction of the back band with the latter.

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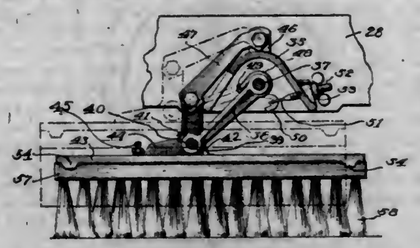
1,694,736. CONCRETE CULVERT. JOHN BROWN FENDER, Kaufman, Tex. Filed Mar. 29, 1928. Serial No. 265,639. 2 Claims. (Cl. 72—52.)



1. A culvert the side walls of which are made up of slabs disposed end to end, the slabs being provided with upstanding lugs at their meeting ends, the top of the culvert being formed of cross plates provided near to their ends with transverse grooves in which the upper edges of the side-forming slabs are received, certain of the cross plates having openings communicating with the grooves and receiving the lugs of adjoining slabs.

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1,694,737. SCRUBBING MACHINE. WALTER S. FINNELL, Hannibal, Mo. Filed Feb. 21, 1927. Serial No. 169,777. 11 Claims. (Cl. 15—50.)



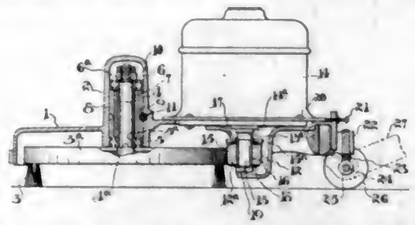
1. In a scrubbing machine, a brush-ring, brush-holders, and parallel motion devices between and supporting the brush holders from the ring.

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1,694,738. FLOOR-FINISHING APPARATUS. GEORGE GEARY, Toronto, Ontario, Canada. Filed Feb. 14, 1927. Serial No. 168,030. 2 Claims. (Cl. 15—49.)

1. In floor finishing apparatus the combination of a frame provided with slots; a motor provided with a de-

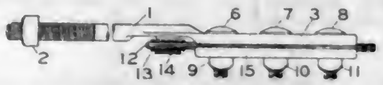
pending armature shaft; a finishing tool journalled on the frame; a friction disk carried on the shaft and adapted to drive the tool; bolts passed through the slots for adjust-



ably securing the motor to the frame; and a screw threaded through the frame for moving the motor towards the tool when the bolts are loosened.

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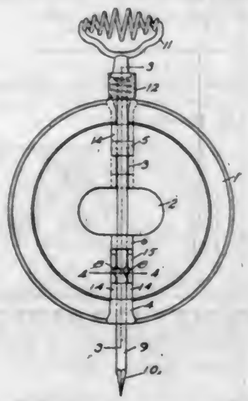
1,694,739. ANCHOR ROD. RUFUS GOULD, New York, N. Y., assignor of one-half to Postal Telegraph-Cable Company, New York, N. Y., a Corporation of Connecticut. Filed Feb. 24, 1927. Serial No. 170,722. 2 Claims. (Cl. 24—135.)



1. An anchor rod, one extremity of which is formed to have a flattened portion, a stud carried by said flattened portion and located near the cylindrical portion of said rod with its axis substantially perpendicular to the longitudinal axis of said rod, a thimble carried and retained by said stud, strand guiding and constraining means provided in the flattened portion of said rod, and a detachable member adapted to be secured to said guiding means to form with said guiding means a strand clamp.

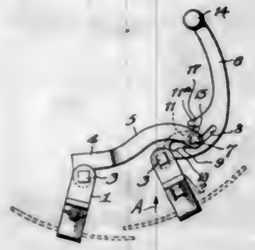
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1,694,740. STOVE DAMPER. ROGER W. GRISWOLD, Erie, Pa., assignor to The Griswold Manufacturing Company, Erie, Pa., a Corporation of Pennsylvania. Filed Jan. 28, 1926. Serial No. 84,314. 1 Claim. (Cl. 126—292.)



In a stove damper, the combination of a damper rod having a point, a handle and a laterally projecting shoulder more nearly adjacent to the point than to the handle; and a damper plate having a rod opening shaped to receive the rod from either end of the opening and having a locking surface with an adjacent open space at each end of the rod opening, the open space permitting the turning of the inserted rod in the opening to bring the shoulder into position to engage with the locking surface upon a reciprocative movement of the rod.

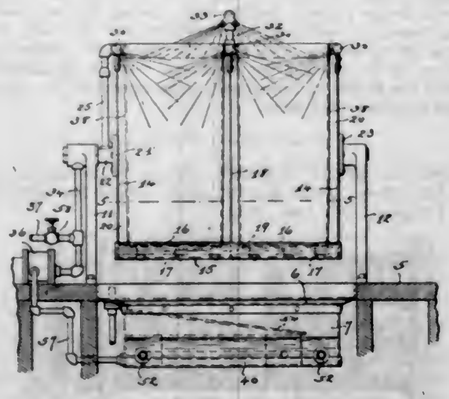
1,694,741. RIM CONTRACTOR. LEWIS HAGNER, Jr., Norristown, Pa. Filed July 6, 1925. Serial No. 41,786. 1 Claim. (Cl. 157—1.)



In a rim contractor, the combination with a pair of clamps for clamping engagement with a rim adjacent its separable ends, of a fulcruming link operatively pivoted to one of the clamps and provided with spaced arms, a pivot bolt passing transversely of the ends of the arms, an operating lever operatively pivoted on the other clamp and having a slot adjacent its pivot and extending in a direction with the lever, said slot being of angular formation, one edge of the operating lever having a recess through which an implement may transversely engage and rest on the edges of said arms, whereby upon moving the lever, the lever may pull upon one clamp and cause pressure in direction of the other clamp and thereby separate the adjacent ends of the rim, one edge of the slot having a recess to receive the transverse bolt after removing the implement whereby upon moving the operating lever further, the rim may be contracted.

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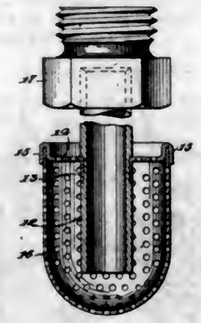
1,694,742. APPARATUS FOR HARVESTING ARTIFICIAL ICE. EDWARD A. HALL, Baltimore, Md. Filed Aug. 6, 1927. Serial No. 211,076. 8 Claims. (Cl. 62—113.)



1. In an apparatus for harvesting artificial ice the combination with a dumping means to hold the cans with the ice therein, of means for directing water against the can while held by the dump whereby such directed water will be chilled, means for accumulating the chilled water running from the cans and connections between the chilled water accumulating means and the means for directing the water against the cans.



1,694,743. STRAINER. GEORGE I. HINMAN, New Haven, Conn., assignor to The Greist Manufacturing Company, a Corporation of Connecticut. Filed Oct. 17, 1927. Serial No. 226,627. 5 Claims. (Cl. 210—171.)



1. The combination with a pump tube, of a strainer fixed thereto and consisting of a disk-like cap having an inverted U-shaped periphery, and an inverted foraminous thimble-like strainer body the upper end of which is entered into and suitably attached to said U-shaped periphery of said cap.

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1,694,744. AIR AND STEAM LINE COUPLER. FRANK JACOBS, Prairie, Idaho. Filed Jan. 27, 1923, Serial No. 615,290. Renewed May 5, 1928. 1 Claim. (Cl. 284—6.)

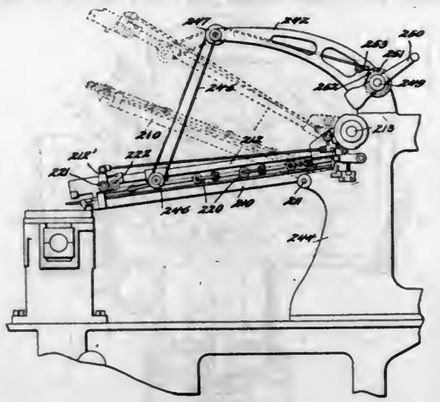


Mating coupling heads each consisting of a body portion and a transverse end portion, the body portion having a chamber and a valve in said chamber, the transverse portion having passages leading into said chamber, a tube projecting from the transverse portion in concentric relation to one of said passages, a hollow stem extending from said passage and beyond the tube for engagement in one of the passages of the mating head, a spring pressed sleeve slidable on the stem and adapted to seat within said passage of said mating head, a cap on the inner end of said sleeve, a packing disk on the stem between the cap and tube, and a spring in the tube for normally urging the packing disk into engagement with said cap, said packing disk being adapted to be pressed against the mouth of the tube, when said sleeve is moved inwardly, whereby to prevent escape of air between the tube and stem.

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1,694,745. SHEET FEEDER. WILLIAM M. KELLY, Westfield, N. J., assignor to American Type Founders Company, Jersey City, N. J., a Corporation of New Jersey. Original application filed Aug. 6, 1921, Serial No. 490,290, and in Great Britain July 27, 1922. Divided and this application filed Apr. 15, 1927. Serial No. 184,116. 2 Claims. (Cl. 271—8.)

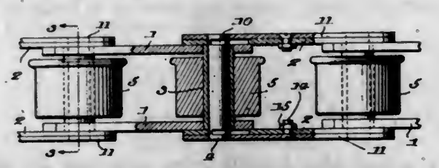
1. In a sheet feeder, in combination, a pivoted frame, sheet manipulating mechanism mounted thereon, a pair of davits extending over said frame, and means carried by said davits for elevating said frame comprising two drums at the base of the davits and a cord extending from each side of the frame over a pulley at the tip of the adjacent davit and thence to one of said drums, and friction means



associated with the drums to hold the frame in any raised position comprising a brake shoe in a recess in the drums and spring means forcing said shoe into frictional engagement with the drums.

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1,694,746. DRIVE AND CONVEYER CHAIN. EUGENE E. LANDAHL, Chicago, Ill. Filed Nov. 19, 1923. Serial No. 675,761. 5 Claims. (Cl. 74—32.)



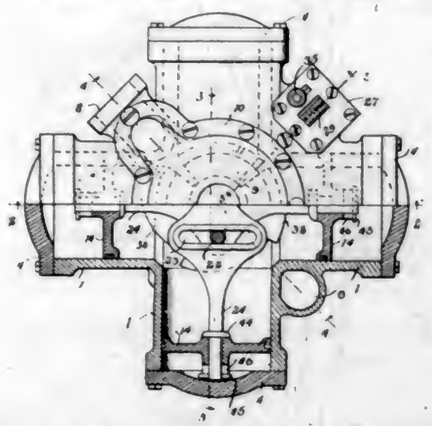
3. A separable drive or conveyer chain comprising, in combination, central and side links alternating throughout the chain and with said side links in pairs with the links of each pair disposed at opposite sides of said center links, pintles pivotally connecting said side links to said center links, said pintles being formed with reduced neck portions and each of said side links being formed with a pair of key hole slots receiving the end portions of a pair of pintles and permitting the spread of the pintles of each pair to the ends of said slots in the working assembly of the parts of said chain and the approach of the pintles of each pair to separate said chain, and a pair of rigid outer links for each pair of side links removably secured against the outer sides of said side links and closely engaging entirely around the end portions of said pintles in a manner to provide a close bearing surface for said pintles entirely around their said end portions, to maintain said pintles in spread position in bearing contact with said side links at the ends of the slots therein, and whereby stress in the use of said chain is divided between said side links and said outer links.

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1,694,747. LIQUID METER. DONALD H. MCGOGY, McMinnville, Oreg., assignor to McGogy Pump Co., Inc., McMinnville, Oreg., a Corporation of Oregon. Filed Apr. 26, 1927. Serial No. 186,717. 4 Claims. (Cl. 73—30.)

1. A meter comprising oppositely and angularly disposed cylinders, pistons therein, crossing rods connecting opposite pistons which have a limited movement thereon and having their intermediate portions widened and transversely slotted, a rotary valve regulating the inflow and outflow of liquid to and from the cylinders, a crank pin

carried by the rotary valve and engaging the slots of the piston connecting rods at their points of crossing, manually operable means for regulating the flow through the meter



by varying the movement of the pistons on their inward travel, and means actuated by the valve for registering the volume flowing through the meter.

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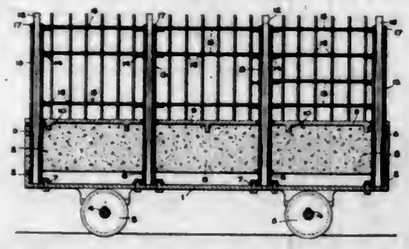
1,694,748. MOTION-PICTURE CARD GAME. JOSEPHINE OWEN MIRANDA, Los Angeles, Calif. Filed Oct. 21, 1927. Serial No. 227,785. 3 Claims. (Cl. 273—152.)



1. A card game consisting of five suits, each suit composed of twelve cards, each suit having a uniform symbol of the same color to distinguish it from the cards of other suits, the symbols being a triangle, a square, a circle, a dollar mark sign, and a star, the cards of each suit having five of them inscribed with a portrait, the portraits being that of a producer, a star, a director, an author and a hero, being motion picture personalities.

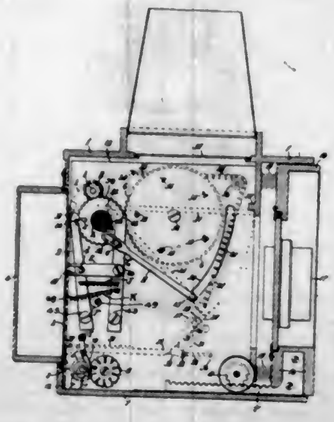
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1,694,749. TRUCK. BERNARD JOSEPH MOORE, Stoke-on-Trent, and ARTHUR JOHN CAMPBELL, Stone, England, assignors of one-half to Gibbons Brothers Limited, Dudley, England, a Company of Great Britain. Filed Nov. 11, 1927, Serial No. 232,687, and in Great Britain Nov. 19, 1926. 10 Claims. (Cl. 25—142.)



1. A truck comprising a truck base, provided with axles and supporting wheels, pillars on said base and projecting upwardly therefrom, distance tubes removably mounted on said pillars and trays having notches at their edges engaged and supported by the said distance tubes.

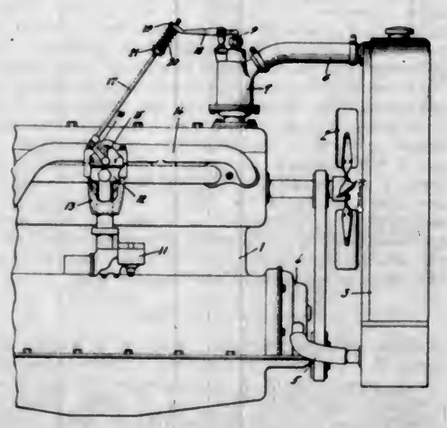
1,694,750. PHOTOGRAPHIC CAMERA. RAFAEL FERNANDEZ MORRJON, Habana, Cuba. Filed May 27, 1926, Serial No. 112,100, and in Cuba May 18, 1926. 4 Claims. (Cl. 95—42.)



1. In a photographic camera, an automatic exposing mechanism comprising a curtain, winding reels for the curtain, a gear wheel rotatorily supported at a side of the camera and having two projections in diametral substantially opposite position, a pair of arms rockingly mounted in symmetrical position at opposite sides of the gear wheel and having opposite grooves designed to respectively engage the projections on the gear wheel, a gear pinion fixed at the end of one of said winding reels and meshing with the gear wheel, elastic means connecting together the said first mentioned arms, a reflecting mirror pivotally mounted, and a link of sliding connection which connects one of said arms to the reflecting mirror.

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1,694,751. AUTOMATIC HEAT-CONTROL DEVICE. FRANK N. NUTT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Oct. 21, 1926. Serial No. 143,191. 3 Claims. (Cl. 123—178.)

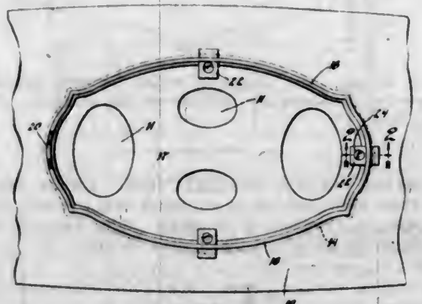


1. In combination, a hollow casing member adapted to be inserted in the circulatory cooling system of an internal combustion engine, a thermo-sensitive element located within said casing, a valve carried by said element to control fluid flow thru the circulatory system in accordance with the temperature conditions therein, a housing surrounding the engine intake conduit and having constant communication with the engine exhaust conduit, a movable deflector plate in said housing, and an operable connection between said thermo-sensitive element and said deflector plate whereby the deflection of exhaust gases into the housing is controlled in accordance with temperature conditions within said cooling system.



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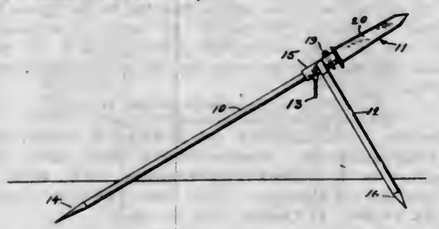
1,694,752. INSTRUMENT-PANEL BEZEL. FRANK N. NUTT, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Sept. 17, 1927. Serial No. 220,265. 3 Claims. (Cl. 180—90.)



1. In an assembly for mounting instruments, a supporting element provided with an aperture, and a bezel element fitting in said aperture, an instrument panel fitting within said bezel, fastening means arranged at spaced intervals about said bezel, each fastening means comprising a clip engaging against two of said elements and a screw so connecting said clip and the third of said elements that a tightening of said screw simultaneously increases the inward pressure of said bezel element on said supporting element and said panel element.

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1,694,753. PORTABLE GUARD FENCE. JOSEPH PEPPIN, Sciota, N. Y. Filed Nov. 11, 1927. Serial No. 232,565. 8 Claims. (Cl. 89—36.)



1. A weapon of defence, comprising a staff, a socket provided at one end of the staff, a bayonet having a handle and a hand guard, the handle being adapted to fit detachably in the socket, the hand guard forming a stop, means for securing the handle in the socket, bored lugs on the staff, and legs detachably mounted in the bores of said lugs in such a manner that a tripod is formed of the staff and legs.

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1,694,754. AUTOMATIC VENT FOR BOTTLES AND OTHER LIQUID CONTAINERS. OMER PORTER, Evansville, Ind. Filed Aug. 25, 1927. Serial No. 215,455. 1 Claim. (Cl. 215—1.)

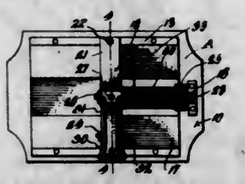
The combination with a liquid container having an upwardly dished bottom provided with an internally screw threaded part integral therewith, of an externally screw threaded, one-piece, plug directly screwed into said screw threaded part and having its head housed by the dished part of the container, said plug having an air vent extending through its head and provided with a hollow interior communicating with said air vent, a loose ball valve wholly contained within said hollow interior and adapted



normally to seat on and close the vent when the container is in upright position, and a limiting cross wire whose ends are received in holes in the plug below the top thereof, said wire serving to limit the unseating movement of the ball valve.

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1,694,755. PICTURE FRAME. CONSTANTINOS G. RENTOS, Brooklyn, N. Y. Filed Mar. 6, 1928. Serial No. 259,493. 6 Claims. (Cl. 40—148.)



1. A picture frame comprising a flat plate having a picture exhibiting opening, spaced longitudinally extending cleats secured to the rear face of the plate on each side of the picture exhibiting opening in slightly spaced relation to the longitudinal edges thereof, a transverse cleat secured to the rear face of the plate in spaced relation to one transverse edge of the picture opening, and a T-shaped member having its arms connected with the longitudinal cleats and its leg connected with the transverse cleat.

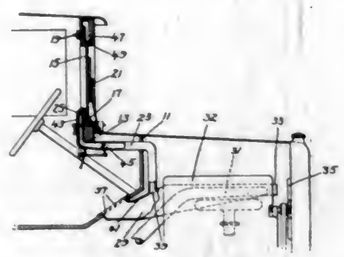
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1,694,756. SUPPORT FOR INTERNAL-COMBUSTION ENGINES WITH RUBBER CUSHIONS. CHARLES R. SHORT, Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed June 12, 1926. Serial No. 115,549. 7 Claims. (Cl. 180—64.)



1. The combination with a supporting member and a supported member, of a cushioned support therebetween including a spiral course of compressible material, and a like course of fabric wound upon and alternating with succeeding convolutions and partially compressing the material of the first mentioned course.

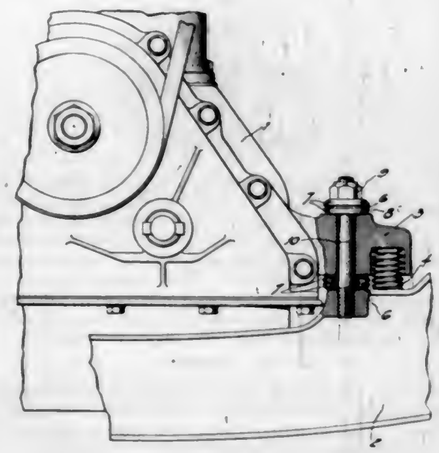
1,694,757. MEANS FOR REMOVING SNOW AND ICE FROM WINDSHIELDS. LOUIS M. SPENCER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 10, 1925. Serial No. 61,827. 5 Claims. (Cl. 20—40.5.)



1. In a device of the class described, the combination with an automobile having a cowl support, a panel spaced therefrom, a windshield, a heater, a conduit having one end in communication with said heater and the opposite end extending between said support and said panel adapted to direct heated air against the internal surface of said windshield.

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1,694,758. MOTOR MOUNTING. CALEB E. SUMMERS and ROGER KENNETH LEE, Detroit, Mich., assignors to General Motors Research Corporation, Detroit, Mich., a Corporation of Delaware. Filed July 17, 1926. Serial No. 123,107. 8 Claims. (Cl. 180—64.)

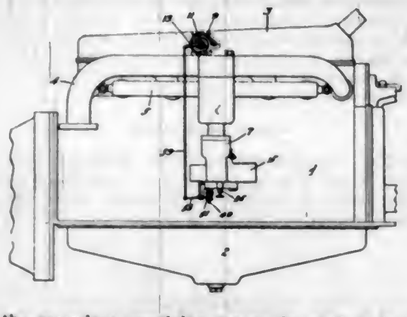


1. In a device of the character described, the combination of a support, a body to be supported, a flexible mounting therebetween permitting floating of the body, and a vibration absorbing element for the body consisting of compressible elements and means to limit their deflection.

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1,694,759. THERMOSTATIC CONTROL OF CARBURETORS. ALEX TAUB, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed May 29, 1926. Serial No. 112,681. 2 Claims. (Cl. 123—106.)

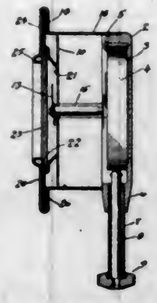
1. In a constant temperature engine, a chamber for cooling medium therefor, a thermostat therein, a carburetor having primary and secondary means to supply fuel mixture to said engine, mechanism connecting said thermostat



and the secondary supplying means for said carburetor whereby the thermostat determines the character of the mixture.

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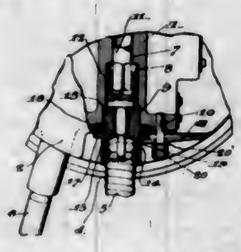
1,694,760. CLOCK CONSTRUCTION. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Jan. 22, 1926. Serial No. 83,027. 1 Claim. (Cl. 58—56.)



In combination, a clock movement having a frame, a removable coaxial casing in extension of the frame, a dial in the end of the casing remote from the frame, means for fixing the dial to the frame and casing, a removable extension shaft connecting the movement with the dial hands, and means for securing the casing to an instrument board.

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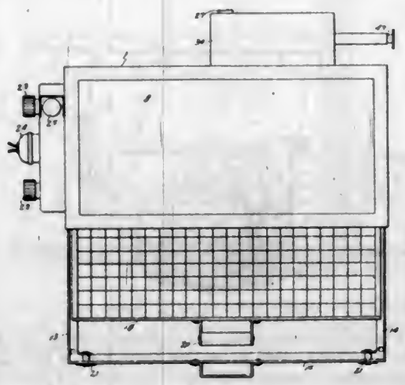
1,694,761. CONNECTION OF FLEXIBLE SHAFT TO SPEEDOMETER. JOSEPH ZUBATY, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Mar. 11, 1926. Serial No. 94,100. 11 Claims. (Cl. 64—30.)



1. An instrument frame, a rotor shaft therein, a casing formed with a recess having a flattened surface above the lower edge of the casing and means for connecting an external driving shaft with the internal rotor shaft at the flat surface.



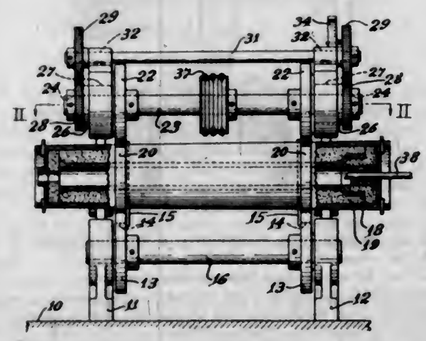
1,694,762. ELECTRIC COOKER. PETER ACKERMAN, Washington County, Oreg., assignor of one-half to John A. Susbauer, Portland, Oreg. Filed Apr. 19, 1927. Serial No. 184,984. 6 Claims. (Cl. 219—35.)



1. An electric cooker, consisting of the combination with a frame, and electric heating means operatively carried thereby, of rails extending from within the frame to the outside thereof, a movable supporting member carried on said rails, and automatic means for driving said member from the frame along the rails after a predetermined period of time.

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1,694,763. CENTRIFUGAL MOLDING APPARATUS. WILLIAM H. BEATTY, Birmingham, Ala., assignor to Beatty, Palmer and Beatty, a Copartnership composed of W. Henry Beatty, Clarence J. Palmer, and William H. Beatty. Filed Aug. 24, 1927. Serial No. 215,066. 8 Claims. (Cl. 22—65.)

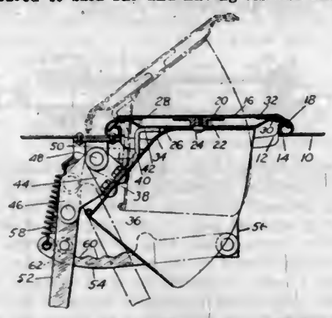


1. In a centrifugal molding machine, a pair of idler rollers for supporting a flask, a driving roller, means for imparting rotary movement through the driving roller to the flask and means for raising and lowering the driving roller to permit the mounting and removal of the flask from said supporting rollers.

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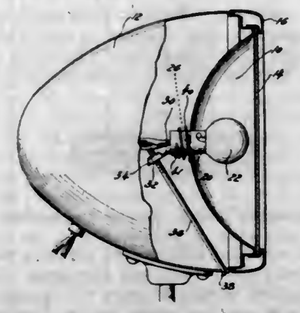
1,694,764. COWL VENTILATOR. ROSCOE BERINGER, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 23, 1925. Serial No. 4,263. 5 Claims. (Cl. 220—46.)

1. In a device of the character described, a cowl having an opening, a web at the rim of the opening terminating in an outwardly extending flange, an outer door plate having its rim formed with a curved bead to enclose said flange, a spacing bar fixed to said outer door plate, an inner door plate secured to said bar and having its rim inclined upwardly and terminating adjacent to said bead, and a strip of fibrous material clamped between said inner and outer plates and extending outwardly over said flange.



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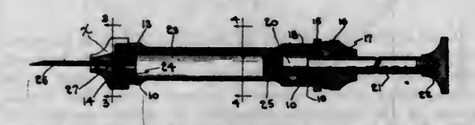
1,694,765. LAMP-FOCUSING DEVICE. SUMNER E. BROWN, Dedham, Mass. Filed Dec. 13, 1926. Serial No. 154,353. 2 Claims. (Cl. 240—44.)



1. An automobile headlamp comprising a housing, a reflector in the housing, said reflector being provided with an aperture at its apex and with oppositely disposed sockets, a lamp socket provided with oppositely disposed trunnions received in the sockets in the reflector to permit tilting adjustment thereof, a coiled spring surrounding the socket and bearing at one end against the rear of the reflector and at the other end against one side of the socket to tilt it in one direction about the axis of said trunnions, and means having an operating part projecting through the wall of the housing for tilting the lamp in opposition to its spring.

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1,694,766. SYRINGE. HENRY KINSEY BROWN, Chicago, Ill., assignor to Cook Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Nov. 23, 1921, Serial No. 517,318. Renewed Jan. 20, 1928. 13 Claims. (Cl. 128—218.)



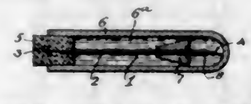
2. A hypodermic syringe comprising, in combination, a cartridge holder constructed and arranged for endwise insertion of the cartridge; a screw-threaded needle-securing head on one end of said holder having a longitudinal slot constructed and arranged for lateral insertion of the needle; and a double pointed needle having an intermediate enlargement by which the head may clamp it.

1,694,767. HYPODERMIC SYRINGE. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 5, 1922. Serial No. 579,924. 6 Claims. (Cl. 128—218.)



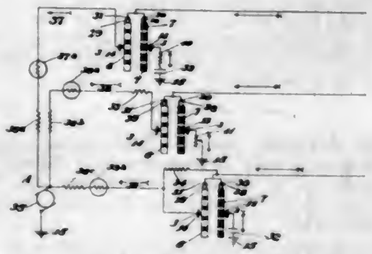
1. A hypodermic syringe comprising, in combination, a body; a medicament dispensing package insertible in said body; said package including a glass tube, and resilient plugs sealing opposite ends of the tube, one of said plugs being slidable through the tube to dispense the medicament; a canula carried by the body and directed inwardly and having a point to pierce the plug which is opposite the slidable plug; and a plunger movable into contact with said slidable plug and having its inner end provided with a cavity into which the slidable plug may expand to minimize breakage of the glass tube by radial expansion of the plug caused by the plunger; said cavity also permitting the canula to pierce the slidable plug, when it has been thrust hard against the initially pierced plug, without breaking the point off.

1,694,768. ASEPTIC NEEDLE HOLDER. HARVEY S. COOK, Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 2, 1922. Serial No. 540,628. 5 Claims. (Cl. 128—22.)



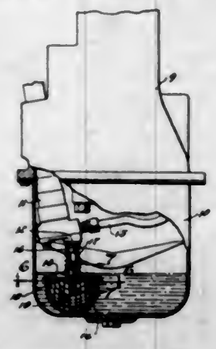
1. A hypodermic needle carrier comprising, in combination, a cork plug; a wire secured at one end within the plug and extending substantially coaxially thereof and having its outer end curled; said wire being of sufficient fineness to extend through the bore of a hypodermic needle and to retain such a needle thereon by means of its curled outer end.

1,694,769. TELEGRAPH TRANSMISSION OF SIGNALS. LOUIS CASPER, Brooklyn, N. Y. Filed Aug. 1, 1921. Serial No. 488,914. 13 Claims. (Cl. 178—69.)



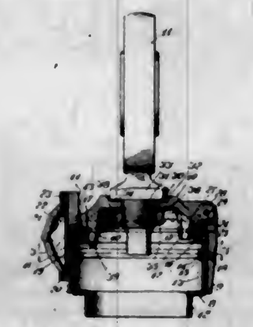
1. In a telegraph circuit or the like to which is included one or more arrangements for draining currents induced upon said telegraph circuit by parallel wires, said drain arrangement or arrangements located on the line circuit ahead of the operating apparatus at either terminal of said telegraph circuit; said drain arrangement or arrangements consisting of a circuit interrupter connected directly into the line together with means for grounding the circuit simultaneously with the opening thereof; said combined interrupting and grounding arrangements operating independently of either the transmission or reception of the regular line signals.

1,694,770. OIL-PUMP SCREEN. LEROY V. CRAM, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 5, 1927. Serial No. 224,180. 5 Claims. (Cl. 210—170.)



1. A strainer comprising a disc-shaped screen support having a tubular guide extending therefrom, a fine mesh filtering screen semispherical in form, and the free edge of which is secured to said support along the periphery thereof; and a perforated protecting shield arranged outside said screen and secured to the periphery of said disc-shaped screen support.

1,694,771. AUTOMOBILE RADIATOR CAP. WILLIAM P. DALRYMPLE, Chicago, Ill., assignor, by mesne assignments, to Gorlen Company, Inc., Chicago, Ill., a Corporation of Illinois. Filed Sept. 20, 1924. Serial No. 738,938. 21 Claims. (Cl. 220—24.)



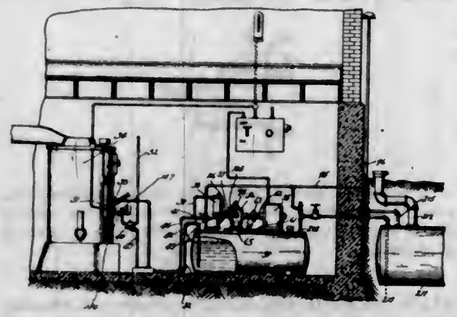
1. A radiator cap comprising a base adapted to be mounted over the filling opening of a radiator, a sleeve rotatably fitted on said base, means preventing separation of said sleeve and base, a lid hinged to said sleeve to swing vertically, and means carried by the lid and operating by rotation of said sleeve in one direction for locking said lid to the base.

1,694,772. LIQUID-FUEL-BURNING SYSTEM. WILLIAM T. DEAN, Glencoe, Ill., assignor, by mesne assignments, to John R. Ball, Milwaukee, Wis. Filed May 20, 1922. Serial No. 562,346. 1 Claim. (Cl. 158—36.)

The combination with the heating plant of a building, of an oil burning nozzle inserted therein, a supply tank outside the building, a service tank inside the building, a source of air under pressure associated with the latter tank, pipe connections from said source to said nozzle and said tanks and from said source to the atmosphere exterior of said building, and a valve for controlling said connections, said valve when in one position connecting said source with the atmosphere through said last-named connection and with said nozzle and said service tank whereby

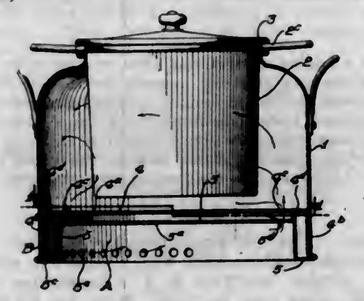


to feed oil and air to said nozzle under pressure, and said valve when in another position closing said first-named connections and connecting said source to said service tank and the connection communicating with the atmosphere



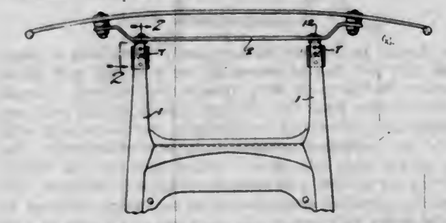
exterior of the building for reverse operation whereby air is drawn from the service tank and exhausted into the atmosphere, causing fuel to be drawn from said supply tank into the service tank.

1,694,773. INTERNAL-HEAT-CIRCULATING COOKING UTENSIL. WILLIAM R. DICK, San Diego, Calif. Filed Jan. 3, 1927. Serial No. 158,564. 13 Claims. (Cl. 53—1.)



1. In a utensil of the class described, a receptacle having a raised bottom means adapted to receive heat from a heating means and provided with ports at its upper portion communicating upwardly with the open interior portion of said receptacle adapted to permit the flow of hot gases from the lower to the upper side of said receptacle, and said bottom means also provided with other ports adapted to permit the return of gases from its upper side to its lower side at the lateral portion of the bottom means.

1,694,774. SPRING HANGER AND BUMPER SUPPORT. JAMES DYKSTRA, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Feb. 17, 1928. Serial No. 255,036. 7 Claims. (Cl. 293—55.)



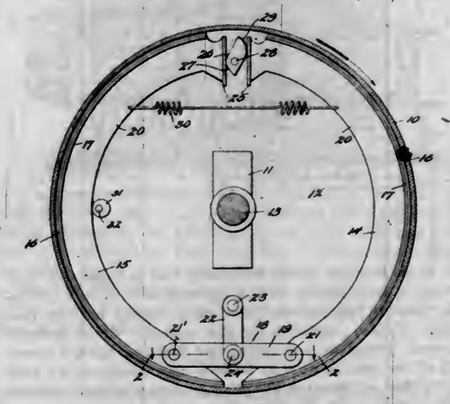
1. A fitting formed from sheet metal and adapted to be permanently carried by a frame member, comprising a substantially vertical web for the attachment of a bumper, a pair of feet projecting laterally from opposite ends of the web adapted to extend below and be secured to the upper and lower flange of a channelled frame member, and a pair of spaced dependent ears carried by the lowermost foot between which the end of a vehicle load supporting spring is pivotally secured.

1,694,775. BAIL EAR AND METHOD OF ATTACHING SAME. JOHN RICHARD EDWARDS, Vancouver, British Columbia, Canada, assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 23, 1924. Serial No. 708,361. 2 Claims. (Cl. 220—91.)



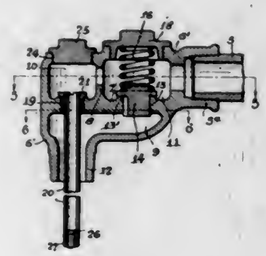
1. The method of forming sheet metal bail ears and attaching the same to sheet metal vessels, which consists in forming the wall of the vessel with an out-standing bossed portion, pressing the bail ear to concave shape with an outwardly extending marginal flange, pressing the bail ear to form therein an inwardly projecting bead at the inner part of said flange, applying the bail ear over the said bossed portion of the vessel, and expanding the outer part of the bossed portion within the bail ear so as to conform with and overlie said bead of the bail ear.

1,694,776. VEHICLE BRAKE. EDWIN B. FLANIGAN, Wilkes-Barre, Pa., assignor to E. B. Flanigan, Incorporated, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed June 16, 1926. Serial No. 116,451. 5 Claims. (Cl. 188—78.)



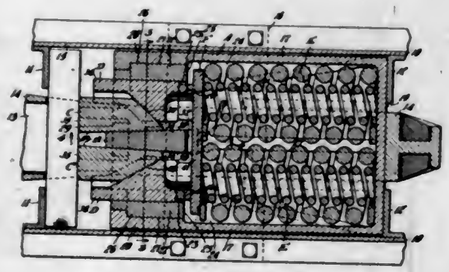
5. In a vehicle brake, in combination, a brake drum rotatively mounted, a relatively stationary brake spider, a pair of brake shoes concentric with said drum, a link pivoted to adjacent ends of said shoes and connecting the same together, a second link pivoted to said spider and to an intermediate portion of said first link, and expanding means to actuate the opposite ends of said shoes.

1,694,777. VALVE. PAUL H. HAMILTON, Cleveland, Ohio, assignor to The Sands Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 7, 1926. Serial No. 100,309. 10 Claims. (Cl. 137—53.)



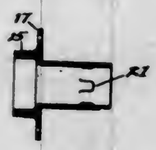
8. In a combined pressure relief and safety blow off device, a casing provided with inlet and outlet portions and walls formed with openings to provide separate chambers inter-communicating with each other and with said portions, a check valve arranged in the opening between said inlet portion and one chamber for normally closing communication into said chamber, and a pipe mounted in the opening between a second chamber and said inlet portion and carrying a fusible plug for closing the passage through said pipe.

1,694,778. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Aug. 26, 1927. Serial No. 215,563. 5 Claims. (Cl. 213—32.)



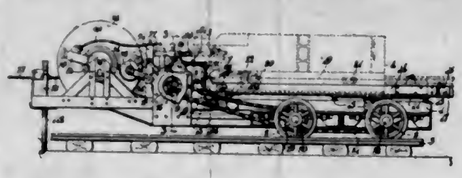
4. In a friction shock absorbing mechanism, the combination with a casing having opposed side walls provided with interior friction surfaces; of a central friction post having friction surfaces on the opposite sides thereof; abutment means on the casing for limiting inward movement of the post; a pair of friction shoes cooperating with the friction surfaces of the casing; wedge members interposed between the friction shoes and the friction post, said wedge members having wedging engagement with the shoes and frictional engagement with the post; retaining lugs on the top and bottom walls of the casing engaging abutment means on the post for limiting outward movement thereof, said lugs also overlapping the wedge members and limiting outward movement of the latter; and spring resistance means opposing inward movement of the friction shoes.

1,694,779. METHOD OF MAKING PRESSED-STEEL HUBS. HARLIE H. HICKS, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 10, 1925. Serial No. 61,794. 2 Claims. (Cl. 29—174.)



1. A method of making hubs from tubular material consisting in expanding the middle portion of the tubular material and cutting the tube at mid-length to make a pair of hubs.

1,694,780. MINING APPARATUS. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed June 1, 1920. Serial No. 385,650. 73 Claims. (Cl. 262—28.)



1. In a mining apparatus, a rigid wheeled truck frame, a rigid machine receiving member thereon tiltably and horizontally swiveled at points substantially midway between its ends and on the front of said frame, truck wheel driving mechanism including a member rotatable by a mining machine on said receiving member, and a feed member abutment carried by the rear end of said frame.

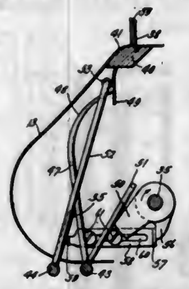
1,694,781. CLOSURE FOR SIFTER-TOP CANS. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 10, 1923. Serial No. 674,064. 1 Claim. (Cl. 221—64.)



A closure for talcum powder cans, comprising a sheet metal neck part having a rounded top provided with sifter openings therein and with interrupted inclined threads bent outwardly from the cylindrical wall of said neck, an imperforate cap having a rounded top conforming with said top of the neck and rounded downward closely over the edge of the neck and thence bulged outward and thence bent inward to form a securing flange close to the neck, and inwardly extending embossments on said flange adapted to engage under said threads of the neck, and a sealing disk tightly and permanently confined in the cap under the top thereof.

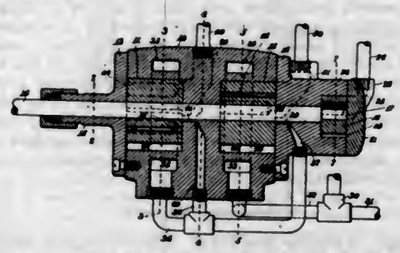


1,694,782. FILING MECHANISM FOR AUTOGRAPHIC REGISTERS. LOUIS JENSEN, Chicago, Ill., assignor to United Autographic Register Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1926. Serial No. 145,526. 6 Claims. (Cl. 282—16.)



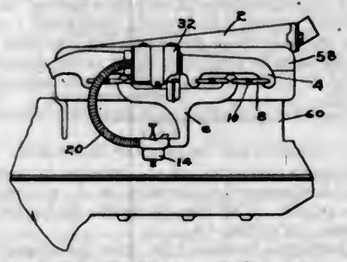
3. In combination with an autographic register in which a paper strip is intermittently advanced, impaled on a filing-pin, and separated into tickets, a pivoted arm that engages the impaled ticket and inverts the same, a reciprocating slide for actuating said arm, and a cam for moving said slide in the working stroke thereof.

1,694,783. PUMP. LAWRENCE E. JOHNSON, Melrose, SINIUS M. HANSEN, Lynn, and JOHN T. MCTARNAHAN, Brighton, Mass.; said Hansen and said Johnson assignors, by mesne assignments, to Victor Shoe Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 1, 1924. Serial No. 729,461. 5 Claims. (Cl. 230—158.)



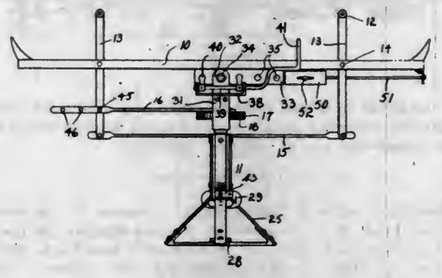
1. In a compressor, the combination of a cylindrical chamber; a revoluble shaft; a piston in said chamber on said shaft and having slots therein and pockets parallel with and offset from the axis of said shaft and extending inwardly from one end thereof; blades in said slots; means for admitting material to said chamber and through holes extending to the inner ends of said slots from said pockets and against the inner ends of said blades to force said blades outwardly.

1,694,784. AIR CLEANER. HERBERT G. KAMRATH, Flint, Mich., assignor to A C Spark Plug Company, Flint, Mich., a Company of Michigan. Filed Jan. 8, 1926. Serial No. 80,004. 5 Claims. (Cl. 123—122.)



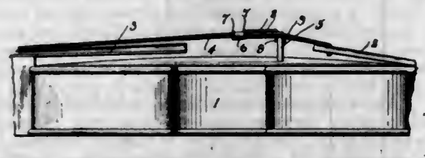
1. An air cleaner comprising a cylindrical casing, closures for the ends of the casing, an air discharge conduit extending through one of said closures and projecting into the casing, spiral blades surrounding said conduit and arranged adjacent but slightly spaced from the said closure, an air entrance opening in said casing arranged between said blades and the said closure and an aperture for the discharge of dust by the centrifugal action produced by said spiral blades, said aperture being arranged at a point radially distant from the center of the casing.

1,694,785. REVOLVING TEETER. OTTO LANGE, Chicago, Ill. Filed Sept. 24, 1925. Serial No. 58,244. 2 Claims. (Cl. 272—30.)



1. A teeter comprising a support, a board mounted on said support for vertical oscillations and for horizontal rotations, and means for locking said board to prevent oscillations thereof, said means comprising a bearing mounted on said support, and a member journaled in said bearing, said member being adapted to coact with said board to prevent oscillations thereof when said member is rotated to its locking position.

1,694,786. ATTACHMENT FOR STRINGED INSTRUMENTS. JOHN EDWIN LARSEN, Millis, Mass. Filed Feb. 5, 1927. Serial No. 166,120. 1 Claim. (Cl. 84—283.)

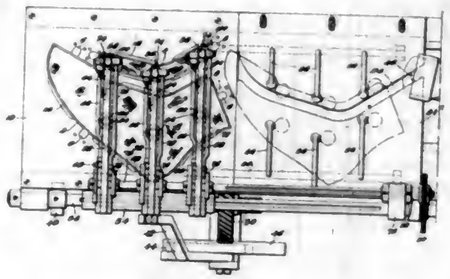


An attachment for stringed musical instruments having a bridge, consisting of an arcuate strip conforming to the arch defined by the strings of the instrument and having guide flanges along its side edges, resilient fingers spaced in lateral relation to one side edge of the said strip and provided with depending ends adapted to detachably engage the bridge of the instrument whereby to support the strip in front of the bridge close to and extending across the strings, and means connecting said fingers to the said side edge of said strip.

1,694,787. MACHINE FOR OPERATING ON PIECES OF SHEET MATERIAL. GEORGE E. MOLYNEUX, Bayonne, N. J., assignor to United Shoe Machinery Corporation, Boston, Mass., a Corporation of New Jersey. Original application filed Aug. 28, 1917, Serial No. 188,589. Divided and this application filed Sept. 16, 1921. Serial No. 501,125. 24 Claims. (Cl. 112—2.)

1. A machine for operating on pieces of limp and flexible sheet material having, in combination, mechanism acting to automatically pick up and place a plurality of such

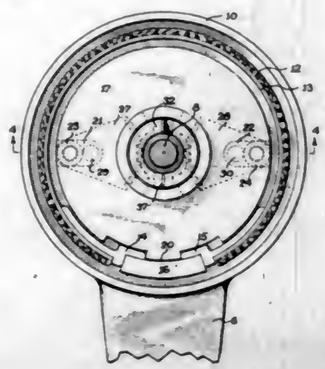
pieces in position to be secured together, means for holding the pieces extended in such relation during the securing operation, means acting progressively along the surface



of the pieces to secure them together, and means for automatically releasing the material from the holding means at the completion of the securing operation.

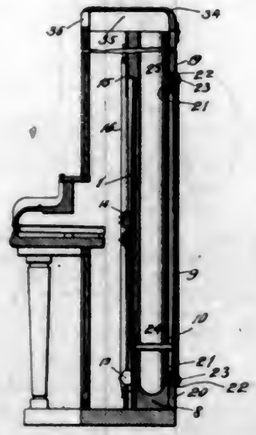
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1,694,788. SHOCK ABSORBER. PORTER S. MORGAN, New York, N. Y., assignor to Morgan Blodgett Morgan, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 7, 1923. Serial No. 630,441. 45 Claims. (Cl. 188—130.)



1. A shock absorber comprising in combination a pair of arms, casing members respectively integral therewith and adapted to be pivoted together to form an enclosure for other operative parts, a circular frictional surface provided by the inner periphery of one of said casing members, an arcuate brake member positioned within and concentrically with said periphery and provided at its ends with chocks, an abutment integral with the other casing member located between the ends of said arcuate brake member and against which said chocks abut, a weight wheel journalled in said casing members and adapted for oscillatory movement therebetween, a projection upon said weight wheel extending between said chocks whereby motion or stress may be imparted to the same and to said brake member upon oscillation of said weight wheel, radial slots in the weight wheel, toothed sectors pivoted to the last-named casing member and provided with roller-bearings to engage said slots, a toothed pinion rotatably mounted between and in mesh with the toothed arcs of said sectors, a helical spring connected at one end with said pinion and at the other with an adjusting collar, teeth upon said adjusting collar, similar teeth upon the first-named casing member adapted to engage the teeth on said adjusting collar to hold the same in fixed relation to said first-named casing member, and a central bolt passing through said collar and through said casing members to hold the same and their contained parts in operative position.

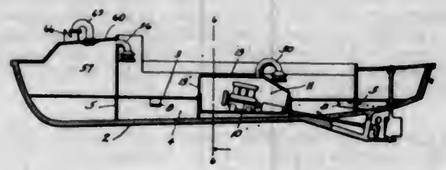
1,694,789. PIANO. FLOYD S. MUCKEY, New York, N. Y., assignor, by direct and mesne assignments, of one-tenth to Joseph F. O'Brien, West New York, N. J., three-tenths to Joseph W. Goodwin, Richmond Hill, N. Y., and six-tenths to Muckey Patents Corporation, a Corporation of New York. Filed Apr. 15, 1919. Serial No. 290,189. 12 Claims. (Cl. 84—194.)



7. In a piano, the combination with strings and means for supporting and vibrating the same, of a primary sounding board comprising a sounding board having a substantially smooth and ribless rear surface and of a thinness and rigidity to segment for the reproduction of composite tones having a predominance of low partial tones; means for transmitting the vibrations of the strings to the said sounding board; means for supporting said primary sounding board at its edges, an elastic secondary sounding board independently supported at the rear of said primary board and spaced therefrom and sound posts connecting said secondary sounding board and said primary sounding board to support the latter.

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1,694,790. ENGINE HOUSING. FRED N. NELSON, Seattle, Wash. Filed Sept. 10, 1924. Serial No. 736,852. 8 Claims. (Cl. 115—34.)



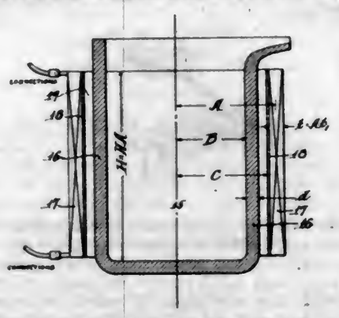
1. In a boat comprising a deck and having an engine for propelling the boat mounted on said deck, a coaming secured to the deck about the engine and a housing for the engine adapted to be removably fitted to the coaming in a water tight joint, and means for detachably securing it in such position.

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1,694,791. INDUCTION ELECTRIC FURNACE. EDWIN F. NORTHRUP, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed Feb. 14, 1925. Serial No. 9,312. 25 Claims. (Cl. 266—1.5.)

1. In inductive heating free from interthreading by transformer iron, the process of efficiently using alternating currents within the range of frequency of generation by rotary multipolar generators which consists in confining the current path to a single layer of turns about the charge and in maintaining such a relation of frequency

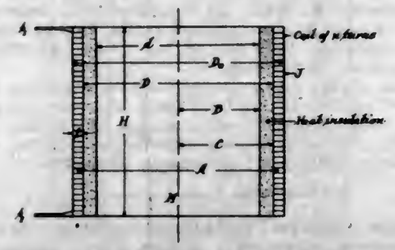




to diameter of the charge that the induced electromagnetic energy shall not penetrate substantially beyond the axis of the charge.

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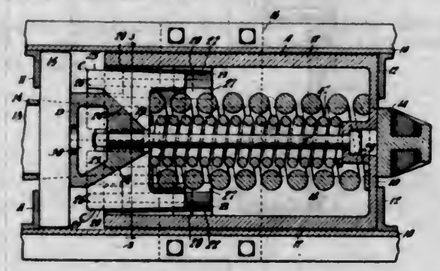
1,694,792. HIGH-FREQUENCY INDUCTION FURNACE. EDWIN F. NORTHRUP, Princeton, N. J., assignor to Ajax Electrothermic Corporation, Trenton, N. J., a Corporation of New Jersey. Filed Nov. 29, 1924, Serial No. 752,885. Renewed July 28, 1928. 15 Claims. (Cl. 266—15.)



1. In inductive heating free from transformer iron, the novelty which consists in providing a single layer of inductor of greater conductor depth than thickness having a depth radially bearing a definite proportion to the diameter of the charge to make the loss of power in the inductor substantially independent of the size of the inductor.

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1,694,793. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Apr. 22, 1927. Serial No. 185,889. 4 Claims. (Cl. 213—32.)



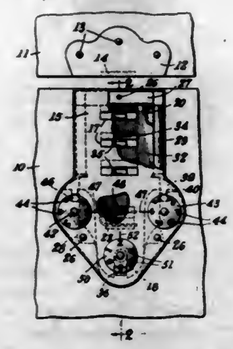
1. In a friction shock absorbing mechanism, the combination with a rectangular spring cage open at one end; of liners disposed in diagonally opposed corners of the cage at the open end thereof; sets of opposed friction shoes co-operating with the liners; a wedge block having a plurality of wedge faces, one of which co-operates with each shoe; and spring resistance means within the cage opposing inward movement of the shoes.

1,694,794. METHOD OF ROASTING SULPHIDE MINERALS. JOHN BURNS READ and MELVILLE F. COOLBAUGH, Golden, Colo. Filed May 25, 1926. Serial No. 111,652. 7 Claims. (Cl. 75—18.)

1. The process comprising subjecting sulphide minerals to an oxidizing roast while causing the minerals and gases to travel in the same direction through the furnace, thereby forming sulphates and then toward the end of the roast, charging a predetermined amount of sulphide mineral to react with sulphates already formed, whereby any portion of the said sulphates may be decomposed to produce oxides and retain regulated amounts of sulphates.

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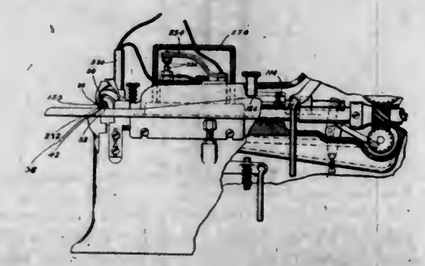
1,694,795. KEYLESS LOCK. JOHN RECKER, Newark, N. J. Filed Sept. 10, 1927. Serial No. 218,651. 5 Claims. (Cl. 70—55.)



1. A lock comprising a casing having a plurality of transverse openings in its face, a keeper having a loop to pass selectively into the openings, a bolt plate slidable in said casing to engage the keeper, a lug raised from said casing, a second lug on the back of said plate, a spring disposed between said lugs urging the bolt plate into engagement, a lug on the base of said casing to extend therein, rotatable means slidable on the face of said casing and operably fixed in said bolt plate to convey lineal motion thereto, said means including a slotted disc receptive of said base lug when in a predetermined position to permit movement of the bolt plate and prevent movement when in any other position and auxiliary means in said casing to control the movement of said slide.

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1,694,796. FOLDING METHOD AND ARTICLE PRODUCED THEREBY. ANDREW R. RIDDERSTROM, Nahant, Mass., assignor to Beacon Folding Machine Company, Lynn, Mass., a Corporation of Massachusetts. Original application filed June 24, 1921, Serial No. 480,177. Divided and this application filed Dec. 7, 1922, Serial No. 605,374. Renewed Mar. 24, 1926. 17 Claims. (Cl. 12—55.)

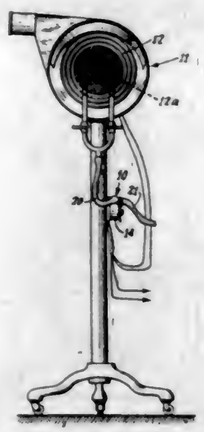


1. The method of folding a dry-cemented strip around the edge of a sheet of material to one face of which, along

said edge, an edge of the strip is secured so that the sheet and the strip extend from the secured-together edges at an angle to each other, said method comprising moving the dry-cemented strip across and around said secured-together edges, pressing the strip into even contact with the other face of the sheet, and heating the strip while pressing it to liquefy the cement.

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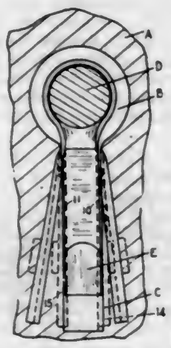
1,694,797. CONTROL DEVICE. LOUIS RUFFIO, New York, N. Y. Filed July 16, 1925. Serial No. 44,134. 6 Claims. (Cl. 34—26.)



1. In combination with apparatus for supplying a drying fluid having means for producing a flow of said fluid and means for heating said fluid, said heating means comprising apparatus for using a fluid power medium, a device having a single operating means controlling the flows of said drying fluid and of said power medium, said means including a disc having a cut out portion and a tension member cooperating with said disc.

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1,694,798. KEYHOLE GUARD. RALPH V. SAVAGE, Los Angeles, Calif. Filed Oct. 21, 1927. Serial No. 227,802. 6 Claims. (Cl. 70—65.)



1. A device for the purpose described consisting of a collapsible member having a part for entering the round hole of a key-hole, a part entering the stem of the key-hole and a part catching in back of the key-hole plate.

1,694,799. MATCH BOOK AND METHOD OF MAKING THE SAME. JOHN O. SEIFERT, Auburndale-Flushing, N. Y. Filed Oct. 16, 1925. Serial No. 62,732. 10 Claims. (Cl. 93—2.)



1. As an article of manufacture a match book embodying a match card including splints arranged with ignitible heads extending from a connecting margin strip, and a cover to which said match card is attached with the edge of the margin strip contiguous to and in alinement with one edge thereof and the splints extending inward from said edge of the cover and the cover being of a length to fold over the match heads with the free end to extend over and substantially to the edge of the margin strip of the match card and having a coating of igniting composition applied to the outer surface of the end marginal portion thereof to extend over the margin strip of the match card and of a width substantially the width of said margin strip.

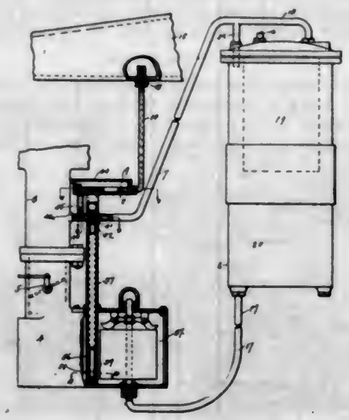
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1,694,800. PITCH-COKING PROCESS AND PRODUCT. FREDERICK W. SPERR, Jr., Pittsburgh, Pa., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1919. Serial No. 337,013. 10 Claims. (Cl. 202—8.)

1. In a pitch coking process: forming a primary mixture of proportions of pitch, bauxite and coke breeze derived from the carbonization of coal and making coke directly from such primary mixture, by subjecting such mixture to coking heat; substantially as specified.

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1,694,801. AUTOMATIC FUEL REGULATOR. CHARLES LAWRENCE STOKES, Los Angeles, Calif., assignor to Curtis B. Camp, trustee, Glencoe, Ill. Filed Mar. 22, 1923. Serial No. 626,990. 15 Claims. (Cl. 123—180.)



5. The combination with an internal combustion engine having an exhaust pipe, an intake manifold for fuel and air and a fluid cooling system of a reservoir for liquid fuel, means to supply liquid fuel from the reservoir to the intake manifold and means connected with both the exhaust pipe and the cooling system for governing the ratio of fuel to air passing through the intake manifold.



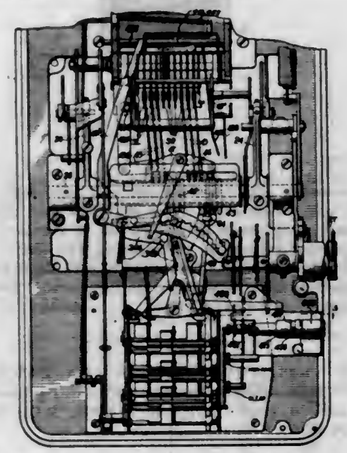
1,694,802. BUTTON. CLYDE W. STUART, Brooklyn, N. Y. Filed Feb. 27, 1928. Serial No. 257,152. 5 Claims. (Cl. 24—90.)



1. A button adapted to be sewed on cloth comprising a head having a flat oval neck with concave sides and ends for receiving a button hole substantially without spreading it, said neck terminating in an enlarged base and having holes through which the sewing thread passes, said base being substantially flat so as to lie firmly against the fabric and thereby hold the button from sagging.

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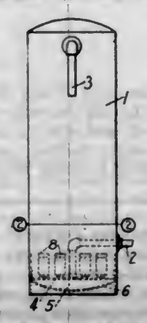
1,694,803. ADDING AND LISTING MACHINE. OSCAR J. SUNDSTRAND, Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del., a Corporation of Delaware. Filed Aug. 15, 1921. Serial No. 492,242. 7 Claims. (Cl. 235—60.)



1. An adding and listing machine having, in combination, two groups of type bars, each type bar having a movable stop portion, two stationary groups of stops arranged in series representing numerical orders, a single keyboard and connections for simultaneously setting stops in both groups of stops, and means for moving said movable stop portions transversely of the series of stops into operative alinement with the said stops.

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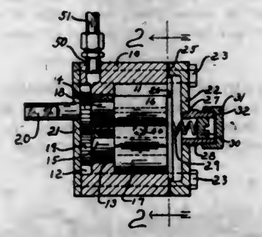
1,694,804. WATER-SOFTENING APPARATUS. EDWARD T. TURNER, Dayton, Ohio. Filed June 13, 1925. Serial No. 36,839. 15 Claims. (Cl. 210—24.)



1. In a water softening apparatus, a container for water softening material having an outlet for softened water, and means for delivering water to be softened to said container comprising a supply pipe and a plurality of discharge heads supported in the lower portion of said container and extending into said water softening material, each of said discharge heads having a relatively small inlet communicating with said supply pipe and an outlet arranged to discharge the water to be softened directly into said water softening material.

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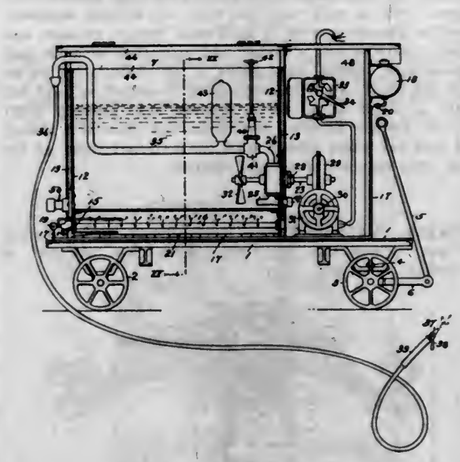
1,694,805. FUEL-SUPPLY SYSTEM FOR INTERNAL-COMBUSTION ENGINES. SUMNER WILTSE, Detroit, Mich., assignor to Wiltse Appliance Company, a Corporation of Michigan. Filed Apr. 1, 1927. Serial No. 180,176. 5 Claims. (Cl. 103—42.)



1. In combination, a pump housing having fluid inlet and outlet passages, a pump element in the housing, a movable diaphragm forming one wall of the housing, an extension of the housing positioned beyond the diaphragm, an adjustable member in the extension and yielding means positioned between the diaphragm and adjustable means, whereby adjustable pressure may be exerted on the diaphragm from without the housing proper.

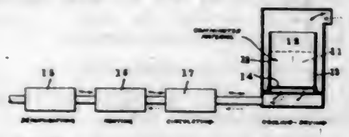
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1,694,806. SPRAYING MACHINE. FRANK H. YALE, Alameda, Calif., assignor of one-half to Conrad B. Sovig, San Francisco, Calif. Filed June 14, 1926. Serial No. 115,857. 1 Claim. (Cl. 299—35.)



A spraying machine comprising a vat having surrounding heating spaces; a burner beneath said vat and heating spaces; a pump submerged in said vat and having a shaft protruding within and without the walls of said vat; an agitator mounted upon said pump shaft within the vat; a motor connected with said pump shaft without said vat; a pressure regulator, an air chamber, a flexible tube and a spray nozzle in the discharge pipe of said pump.

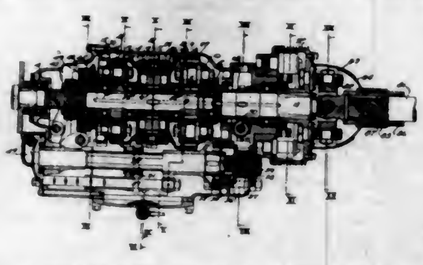
1,694,807. METHOD OF COOLING AND DRYING MATERIALS. ELMER B. BROWN, New York, N. Y., assignor to The Fleischmann Company, New York, N. Y., a Corporation of Ohio. Filed June 1, 1925. Serial No. 33,927. 8 Claims. (Cl. 99—10.)



8. The method of cooling and drying yeast, which comprises passing a current of air, having a temperature of approximately 60° F., and containing approximately 1.25 grains of moisture per cubic foot through a thick comminuted mass of moist yeast at a rate of approximately two cubic feet per minute per pound of yeast.

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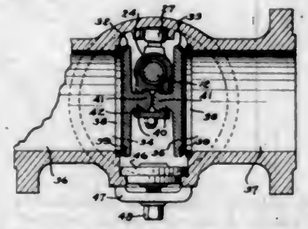
1,694,808. VARIABLE-SPEED GEARING. WESTGARTH STANHOPE FORSTER BROWN and JOSEPH MAINA, London, England. Filed Oct. 28, 1926, Serial No. 144,728, and in Great Britain Nov. 3, 1925. 9 Claims. (Cl. 74—34.)



1. In variable speed gearing, a primary shaft, a secondary shaft, a plurality of pinions fast on said primary shaft, a planetary cage, internal spur gears on said cage, a ring member carried by and adapted to revolve on said cage, an internal spur gear on said ring member, a flanged element on said secondary shaft, a reverse member, external teeth on said cage and ring and reverse members, satellite pinions carried by said cage, flanged element and reverse member and situated and operating between said pinions and internal spur gears, a lay shaft, a pinion on said lay shaft, an auxiliary clutch mounted on said lay shaft, a direct drive clutch between said primary shaft and the reverse member, and means for selectively engaging said lay shaft pinion with the external teeth of the cage, ring member, or reverse member.

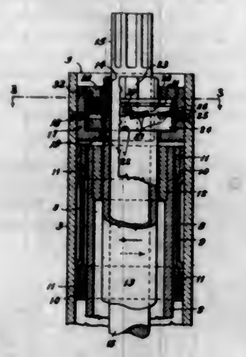
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1,694,809. VALVE. PETER PAYNE DEAN, New Canaan, Conn. Filed Apr. 27, 1927. Serial No. 187,018. 8 Claims. (Cl. 251—62.)



1. A valve, comprising a casing forming a valve chamber having valve ports and valve disks cooperating therewith, an actuating member movable in the casing, a nut connected with the valve disks, oscillatable on the actuating member to permit a disk to seal its port, and means to guide and control the extent of oscillation of said nut.

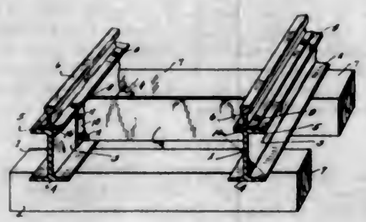
1,694,810. AUTOMATIC CLUTCH ARRANGEMENT FOR LAUNDRY MACHINES. GEORGE W. DUNHAM, New Haven, Conn., assignor to Whirldry Corporation, Utica, N. Y., a Corporation of New York. Filed July 28, 1925, Serial No. 46,551. Renewed Apr. 20, 1928. 11 Claims. (Cl. 192—41.)



2. A laundry machine comprising a receptacle, a support for said receptacle, a drive shaft for said receptacle, and means operative by the direction of rotation of said shaft for simultaneously transferring the entire weight of said receptacle from said support to said shaft to relieve said support of said weight and for operatively connecting said receptacle to said shaft.

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1,694,811. RAILWAY ROADBED AND TRACK CONSTRUCTION. ELMER ROCKWOOD EDSON, Portland, Oreg. Filed Apr. 30, 1928. Serial No. 273,060. 9 Claims. (Cl. 238—26.)



8. The combination of a T-rail and a girder support therefor, said girder having a member projecting outwardly from the top thereof, and said projecting member being provided with an under surface portion constituting a tread for the travel of a safety wheel.

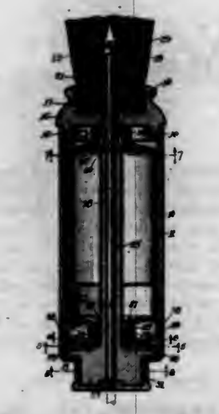
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1,694,812. DISPENSING DEVICE. GEORGE G. FLOYD, Riverside, Ill. Filed July 23, 1924. Serial No. 727,634. 2 Claims. (Cl. 221—79.)

1. In a dispensing appliance, the combination of a hollow handle adapted to accommodate a supply-tube, a discharge-pipe connected to said tube and having a delivery-port, a reciprocatory valve in said pipe controlling said port, a



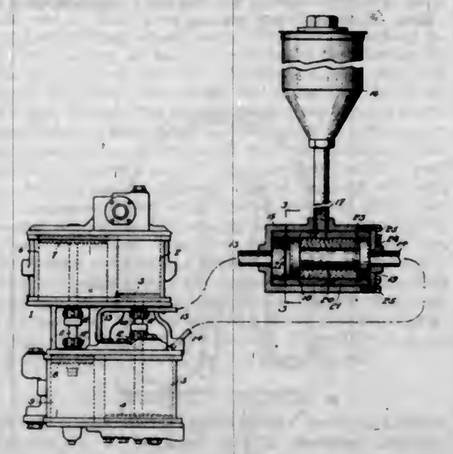
stem for said valve, a cover on said stem, means to cause said tube to deliver its contents into said pipe, and a handle by which said delivery means may be actuated, said cover



enclosing said delivery-means handle in the port-closing position of said valve, whereby said port must be opened before said delivery means can be operated.

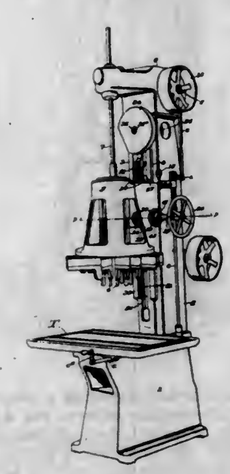
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1,694,813. LUBRICATOR. MACK J. FOWLER, Roanoke, Va. Filed May 28, 1923. Serial No. 641,957. 7 Claims. (Cl. 184—18.)



3. In a lubricating device of the class described, the combination with a casing, of a valve member having a plurality of pistons between which and the walls of the casing is formed an intermediate oil chamber adapted to have constant communication with a source of supply, means for receiving predetermined quantities of oil upon each reciprocation of the valve member, said means including an annular groove provided near each end of the casing adapted to be periodically brought into communication with said intermediate oil chamber through the operation of the said pistons.

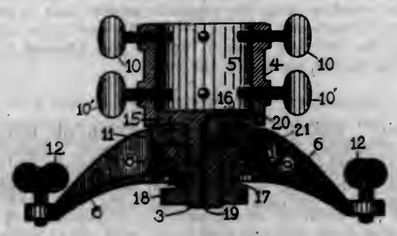
1,694,814. HEAD MOUNT FOR MULTIPLE DRILLS. ROBERT M. GALLOWAY, Richmond, Ind., assignor to The National Automatic Tool Company, Richmond, Ind., a Corporation of Indiana. Filed Nov. 19, 1924. Serial No. 750,811. 6 Claims. (Cl. 77—32.)



1. A drilling machine combining a box-type frame provided with spaced guides; a drill-head fitted to said guides and adapted to be moved thereon; a slide-bar movable on said frame and slidingly fitted to a guideway provided by the face of said frame adjacent the drill head and intermediate said guides; a rotary cam operatively connected to said slide-bar to reciprocate the latter; and an extensible gear connection between said slide-bar and said drill-head to cause the latter to reciprocate with the former and to permit of adjustment between the two.

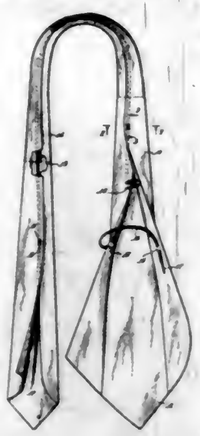
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1,694,815. CHRISTMAS-TREE STAND. RALPH GARLICK, Totowa, N. J. Substitute for application Serial No. 569,750, filed June 20, 1922. This application filed Oct. 29, 1924. Serial No. 746,712. 1 Claim. (Cl. 248—38.)



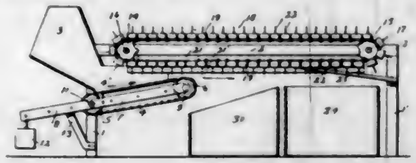

In a tree stand having a butt socket and legs to support the stand, a unitary intermediate casting including a hollow casing having integral vertically arranged parallel peripheral projections thereon for said legs, the top of said hollow casing having a reduced opening communicating with an open bottom in the casing, and a retaining member associated with said butt socket and protected by projecting into said casing from the open bottom thereof.

1,694,816. NECKTIE. SAMUEL GOLDBERG, New York, N. Y., assignor to Goldberg & Squire, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 8, 1927. Serial No. 231,823. 9 Claims. (Cl. 2—146.)



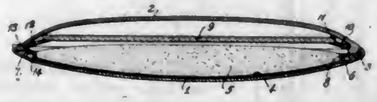
1. A four-in-hand necktie including a relatively narrow collar encircling intermediate portion, and a pair of flaring tying ends, the side edges of one of said tying ends being folded back upon the intermediate portion thereof and overlapped, said overlapping edge portions having a longitudinal series of aligned openings therein, and a flexible securing device removably laced through the openings.

1,694,817. BEET CLEANER. ABRAHAM GUDMUNDSEN, American Fork, and AUSTIN GUDMUNDSEN, Salt Lake City, Utah. Filed June 26, 1926. Serial No. 118,670. 4 Claims. (Cl. 209—109.)



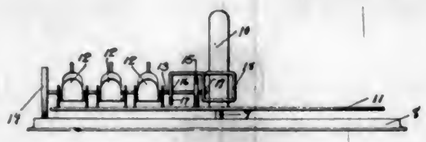
1. A separator comprising a longitudinally sectionalized yieldable member the sections of which are yieldable independently of each other, a conveyor disposed above the yieldable member, pins projectable beyond the same to enter objects traveling along the yieldable member and to carry the objects therewith, fingers located adjacent to the underside of the conveyor between rows of pins adapted to release the objects carried on the pins.

1,694,818. RECEPTACLE FOR POWDER OR ROUGE. PAUL MARCEL GUILLAUME, Paris, France, assignor to Bourjois, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 3, 1927, Serial No. 230,857, and in France Aug. 23, 1927. 10 Claims. (Cl. 132—83.)



1. An ultra-thin lenticular box of the type described comprising in combination, two hingedly connected box members of complementary form and a tongue carried by each of said box members and adapted to snap over the edge of its opposite box member when said box is closed.

1,694,819. GAME. LESTER S. GUNDERMAN, Pittsburgh, Pa. Filed Dec. 29, 1924. Serial No. 758,533. 2 Claims. (Cl. 273—86.)

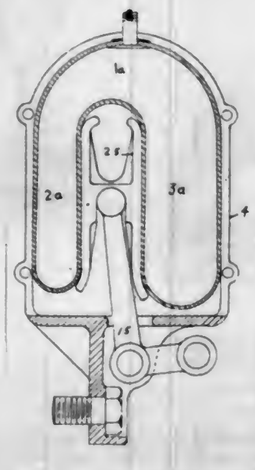


1. A game comprising a circular track pivotally mounted on a base, a horizontal shaft having a wheel on each end thereof, one wheel resting on the said track the other wheel resting on the said base thereby constituting means to carry objects in a reverse direction to the track, a guide yoke journaled on a pivot bearing, constituting means for guiding the horizontal shaft around the track, a pivot shaft having a groove therein, the said pivot bearing carrying a retaining pin which passes through the said groove in the pivot shaft constituting means for preventing the removal thereof.

1,694,820. RUST-RESISTING CAN. NEAL HARRIS, San Francisco, Calif. Filed Dec. 21, 1925. Serial No. 76,895. 3 Claims. (Cl. 91—70.3.)

2. The method of protecting iron and steel which comprises chemical treatment of the same to produce a black continuous hard film of rust resistant oxide thereon and covering said oxide coating with a film of adherent relatively easily fusible metal.

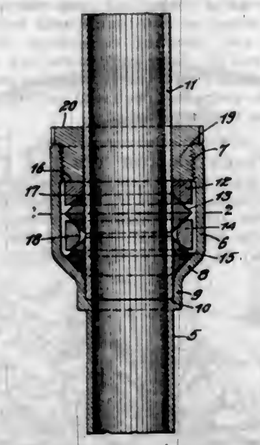
1,694,821. AIR SPRING. JOHN ALLEN HEANY, New Haven, Conn., assignor to Heany Laboratories, Inc., New Haven, Conn., a Corporation of Connecticut. Filed Dec. 31, 1921. Serial No. 526,443. Renewed May 23, 1928. 6 Claims. (Cl. 267—35.)



1. A shock absorber device consisting of an enclosing case and a lever arm adapted to be connected to two relatively movable parts of an automobile and a resilient member interposed between said case and arm; said resilient member being a U-shaped pneumatic tube with means for inflation and constructed with one side larger in diameter than the other.



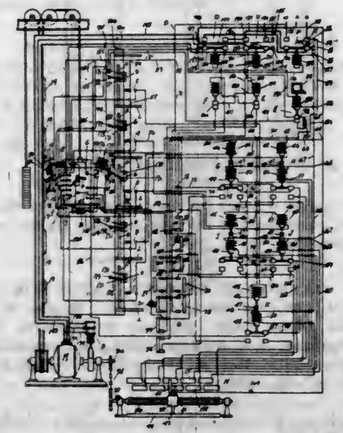
1,694,822. PIPE JOINT. EDWARD KENNEDY, New York, N. Y. Filed Sept. 9, 1926. Serial No. 134,867. 1 Claim. (Cl. 285—166.)



The combination with two rigid metal pipe sections, of a plain cylindrical end on one of the sections; a bell formed on one end of and integral with the other section, and telescopically fitted over the plain, pipe end, said bell having inner and outer cylindrical recesses of different diameters, the inner recess being adapted to snugly fit the plain, pipe end, and terminating in a shoulder adapted to abut the rim thereof, and the outer recess being of greater diameter than the inner one, to provide a chamber for packing, and terminating at its inner end in an annular inclined bearing face, the outer end of the packing recess being provided with screw threads; an adjusting nut snugly fitted around the plain, pipe end, and having external screw threads engaging the threads in the packing recess, and an inner pressure transmitting rim; a plurality of packing rings of soft metal fitted in the packing recess, each having an internal cylindrical face intimately contacting the external face of the plain, pipe end, and inclined outwardly converging side faces, the inner inclined face of one of the packing rings being opposed to the inclined bearing face of the packing recess; a compression ring of relatively harder metal than the packing rings, interposed between a pair of the same and having convex faces bearing on the opposed inclined faces of the pair, said compression ring being spaced from the inner surrounding face of the bell and the outer face of the plain, pipe end, a sufficient distance to permit the packing rings to be readily deformed to effect an efficient seal; and a second compression ring of relatively harder metal than the packing rings, having an inner convex side face bearing on the outer inclined side face of the outermost packing ring, and an outer, side bearing face adapted to receive the pressure exerted by the clamping nut.

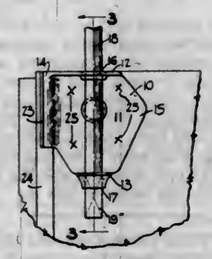
1,694,823. AUTOMATIC ELEVATOR. DAVID C. LARSON, Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 24, 1922. Serial No. 563,186. 40 Claims. (Cl. 187—29.)

28. A control system for an elevator car comprising; a plurality of switches, one for each of a plurality of floors; means responsive to the operation of any one of said switches, provided no other of said switches is operated, for causing the car to move in a direction toward the floor corresponding to said one switch operated; means responsive to the operation of said one switch and to the operation of other of said switches for floors in said direction from said car when said other switches are operated for causing the car to stop at the floors corresponding to these specified switches operated; and means responsive to the operation of said switches for floors in the other direction from the car when these second specified switches



are operated for causing the car to travel in said other direction, after its last stop in the first specified direction, and to stop at the floors corresponding to said second specified switches operated.

1,694,824. CURTAIN SUPPORT FOR AUTOMOBILE DOORS. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 29, 1925. Serial No. 5,421. 6 Claims. (Cl. 296—139.)

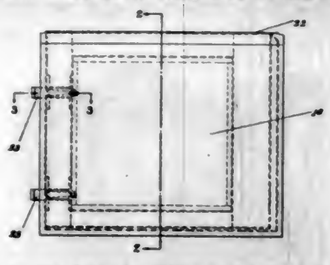


1. In a curtain rod socket member, a substantially flat body portion adapted to be welded to the inner side of an automobile door panel, an upper portion having an aperture therein for passage of the curtain rod therethrough, a lower portion having an irregularly shaped seat therein for reception of the bottom end of the curtain rod, and a side portion adapted to be welded to the inner side of the end panel of the door, all of said portions being integrally united.

1,694,825. AUTOMOBILE DOOR. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 3, 1922. Serial No. 558,169. 13 Claims. (Cl. 296—44.)

1. A metal door comprising a main frame of perimetral dimensions closely approximating those of the door at

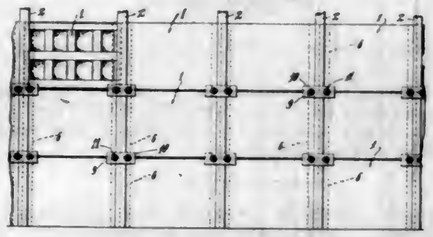
large, a plurality of panel supporting members rigidly secured to said frame and so shaped as to form therewith
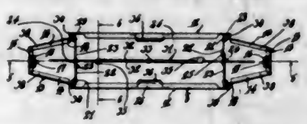


relatively narrow channel portions at the edges of the door, and a door panel having its edge portions rigidly secured to said members.

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1,694,826. METHOD OF AND APPARATUS FOR FORMING HOLLOW-CONCRETE WALLS. ELMER W. MARTEN, San Diego, Calif., assignor to Monolith Hollow Wall Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 4, 1926. Serial No. 92,145. 8 Claims. (Cl. 25—131.)

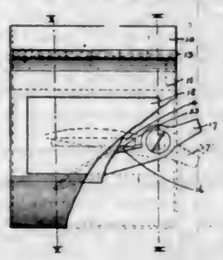




2. A method of forming hollow concrete walls of story height which comprises positioning internally reinforced collapsible core members of substantially story height in spaced relation along the said wall to form cored sections and spaced columns, of substantially story height, building up outside forms in position spaced from and on opposite sides of the said cores, pouring concrete in the space provided around the said cores, removing the internal reinforcements from the core members and the collapsed cores from the wall after the concrete has set.

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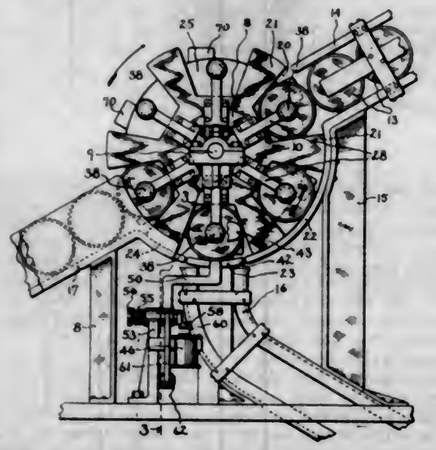
1,694,827. SAFETY MEANS FOR FLUID-DISPENSING PUMPS. ARTHUR R. MASON and OTTO C. FAILING, Medford, Oreg., assignors to Accurate Gasoline Recording Company, a Corporation of Oregon. Filed Aug. 17, 1927. Serial No. 213,689. 3 Claims. (Cl. 164—44.)



1. Safety means for fluid dispensing pumps, comprising a box and mechanism within said box adapted to operate synchronously with said pump and adapted to advance a plurality of paper strip records of each dispensing transaction, a compartment into which said strips are advanced, a hinged cover normally closing said compartment, hand operated cutting means on said box adapted to cut the advanced strips, and operating connections between the cutting means and the cover constructed and adapted to hold the cover closed except when the cutting means is employed to cut the strips and upon said cutting to open the cover and deliver the strips.

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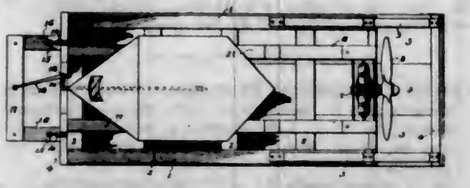
1,694,828. APPARATUS FOR TESTING CANS FOR LEAKAGE. JOHN M. MCCLATCHIE, New York, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Original application filed June 15, 1926, Serial No. 116,141. Divided and this application filed May 20, 1927. Serial No. 192,843. 9 Claims. (Cl. 209—88.)



1. An apparatus for testing cans having end walls comprising, a can runway on which the cans rest and along which they are advanced, a movable section in the can runway, means for advancing a can along the runway, a feeler traveling in unison with the can and arranged to be moved into contact with an end wall thereof, means for moving the feeler into contact with the end wall of the can, and means controlled by the feeler for actuating the movable section of the can runway to permit the can to fall through the runway if the end wall of the can is in a predetermined position as determined by the feeler.

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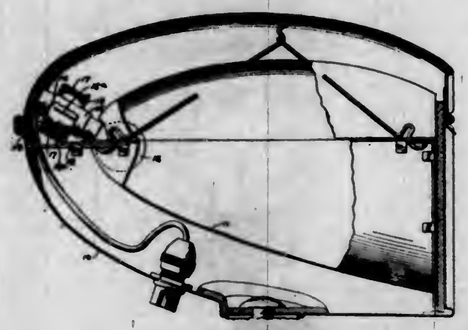
1,694,829. MOTOR-DRIVEN SLEIGH. WALTER A. OLSON, Twin Valley, Minn. Filed July 19, 1927. Serial No. 206,955. 2 Claims. (Cl. 180—3.)



1. A sleigh comprising side sills, cross bars connecting the side sills, bottom boards connected to the cross bars, said bottom boards having their forward ends turned upwardly, and brace bars connecting the forward ends of the bottom boards and side sills to maintain them in their upturned position, a frame supported by the side sills, a motor supported by the frame and having a propeller fixed to its shaft, front and rear runners supported beneath the bottom boards, and means for guiding the rear runners.



1,694,830. UNIVERSAL FOCUSING DEVICE. JOHN F. PAGENDARM, Oakland, Calif., assignor to American Woodlite Corporation, San Francisco, Calif., a Corporation of Arizona. Filed Nov. 25, 1925. Serial No. 71,278. 2 Claims. (Cl. 240—44.)



1. A focusing device comprising a base, a seat thereon screw-threaded on its exterior, a spherical member to fit against said seat and having an opening to receive a lamp socket slidably, said spherical member being provided with slits extending from each end past the middle thereof and terminating short of the opposite end, and a clamping ring threaded onto said seat and having a flange to engage the end of the spherical member opposite the seat, for clamping the spherical member tightly against the seat, whereby both ends of the spherical member are contracted to grip the lamp socket.

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1,694,831. PROCESS FOR THE MANUFACTURE OF GLASS CONTAINING BARIUM. FRITZ ROTHE and HANS BRENEK, Berlin, Germany, assignors to the Firm of Rhenania-Kunheim Verein Chemischer Fabriken Aktiengesellschaft, Berlin, Germany, a Society of Germany. Filed Oct. 11, 1926, Serial No. 141,029, and in Germany Oct. 16, 1925. 5 Claims. (Cl. 106—36.1.)

1. Process for the manufacture of barium glass which consists in melting barium silicate with glass-forming ingredients.

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1,694,832. LICENSE-PLATE HOLDER. EDWARD LACY SHELTON, Memphis, Tenn. Filed Mar. 24, 1928. Serial No. 264,376. 3 Claims. (Cl. 40—131.)



1. A license plate holder comprising a rectangular metallic sheet having at its lower end an extension, said sheet at its central portion being concavely depressed and the depression extending into said extension to produce therefrom a semi-circular neck, the lower end of said neck having a flange adapted to seat upon a vehicle, the sheet having openings for the passage of securing elements for attaching a license plate thereto.

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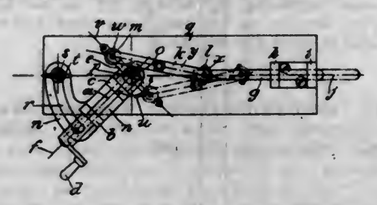
1,694,833. ADJUSTABLE REFLECTOR FRAME. LOUIS S. SHIVELY, St. Louis, Mo., assignor to The Weightograph Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 4, 1926. Serial No. 92,159. 4 Claims. (Cl. 45—97.)



2. A device of the class described comprising a rectangular support, lugs carried by said support in oblique alinement and offset from an oblique angle of the axis of the support, a leaf spring carried by said lugs, a rectangular frame, a reflector in said frame, a bearing support carried by said frame and arranged to connect with said spring, and three adjusting screws being in triangular arrangement operable effectively to rock the frame in respect of said support to effect any desired angular adjustment thereof.

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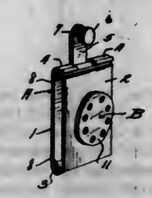
1,694,834. MECHANISM FOR TRANSMITTING MOVEMENT. GEORGE WILLIAM SINCLAIR, Eton, England. Filed May 8, 1925, Serial No. 28,903, and in Switzerland June 1, 1924. 3 Claims. (Cl. 74—14.)



1. In a mechanism for transmitting movement, in combination, a driving member, a driven member, said members being adapted for rotation around different geometrical axes, a connecting link between said members secured to each by a joint at least one of which is a universal joint, the point of intersection of the two geometrical axes of rotation of the one joint being at a distance from the axis of rotation of its member and the point of intersection of the geometrical axes of rotation of the other joint being in the axis of rotation of its member.

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1,694,835. SUSPENDERS. ADOLF THIES, St. Louis, Mo. Filed Mar. 10, 1927. Serial No. 174,324. 1 Claim. (Cl. 241—7.)

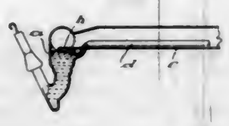


A suspender comprising in combination two members, one of said members being adapted for clamping engage-

ment with a body garment and the second of said members being adapted for securement to a nether garment, said members being provided with coacting means to effect a coupling therebetween, the first member consisting of two sections, one of said sections having an outstanding arm at one end thereof, said section having flanges at said end at opposite sides of the arm and another flange extending across the opposite end of the section, the second section having flanges extending across opposite ends thereof, the flanges of one section slipping over the flanges of the second section, said sections being adapted to be arranged at opposite sides of the body garment with portions of said garment clamped between the flanges, said arm being provided with a securing means.

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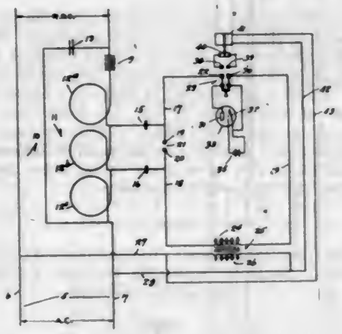
1,694,836. MERCURY VAPOR LAMP. WILHELM ULBRICH, Jena, Germany. Filed Mar. 23, 1927, Serial No. 177,710, and in Germany Mar. 29, 1926. 3 Claims. (Cl. 176—42.)



1. A mercury vapor lamp comprising in combination an illuminating tube capable of being tilted, anode and cathode bodies on the said illuminating tube, constituting the poles, at least one container in the said anode and catbode bodies for containing mercury, fine tubes extending longitudinally of the said illuminating tube from the pole vessel containing the mercury to the vicinity of the other pole, and means at the junction of the fine tubes and the pole vessel containing the mercury for obstructing the flow of the mercury, on the lamp being tilted, and allowing it only to enter the fine tubes.

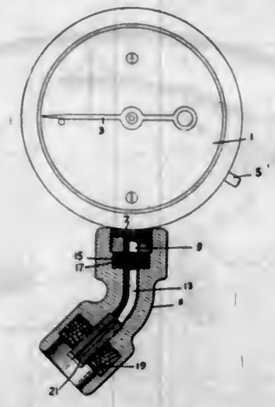
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1,694,837. RECTIFYING SYSTEM. FLETCHER L. WALKER, Jr., Westwood, Calif. Filed Feb. 23, 1926. Serial No. 90,203. 1 Claim. (Cl. 175—363.)



A rectifying system comprising an alternating current line having a gap, a plurality of turns of wire in series with the gap and a condenser across the gap and the turns, an oscillating circuit across one of the turns, and means for producing an oscillating high frequency current in the latter circuit in synchronism with one set of alternations in the line whereby the gap is ionized and allows the alternations of the said set to pass for producing a unidirectional current.

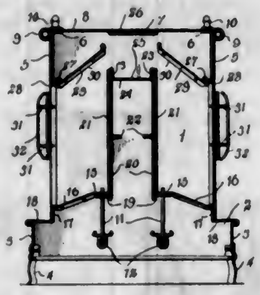
1,694,838. GAUGE. WILLIAM G. BAYHA, Perkasie, Pa., assignor to United States Gauge Company, New York, N. Y., a Corporation of Pennsylvania. Filed Apr. 14, 1927. Serial No. 183,654. 3 Claims. (Cl. 73—31.)



1. A wire tester gauge provided with a watch-shaped body and dial, a manual reset button at the edge thereof, a threaded boss at the bottom of the gauge provided with a passage whereby pressure may enter the gauge, a fitting having a central passage throughout its length, small at the middle and enlarged at each end and provided with a thread at the end of the upper enlargement, screwed onto the boss, a continuation of the enlargement in the fitting below the threaded portion, a porous decelerator therein engaging said threaded boss, a bend in the median portion of the fitting whereby the convenience of operating the gauge may be increased, an enlargement of the passage in the lower end of the fitting provided with a tubular release pin pressed thereinto, a further enlargement of greater diameter and an elastic washer therein around the release pin to seal the fitting to a valve when pressed thereon.

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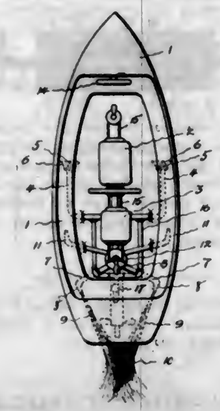
1,694,839. GAS STOVE. WILLIAM L. BROOKS, Ardmore, Okla. Filed Feb. 21, 1928. Serial No. 256,025. 4 Claims. (Cl. 126—87.)



1. A heater comprising an open bottom casing having lower side strips extending from end to end, partitions attached at their outer edges to the upper edges of said side strips and extending upwardly and inwardly therefrom, the inner edges of said partitions being stepped and spaced transversely of the casing, backing plates extending from end to end of the casing and abutting the stepped inner edges of the partitions, heat-radiating mats seated at their lower edges in the stepped edges of the partitions and supported by said plates, and burners mounted in the casing below the partitions and rising through the inner edge portions of the partitions at the outer sides of the radiating mats.



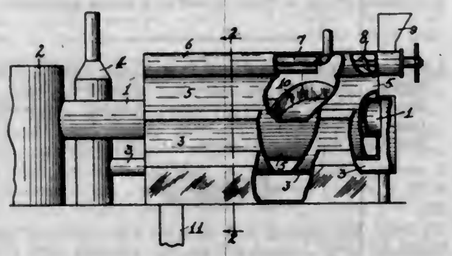
1,694,840. HYDRAULIC SYSTEM AND MEANS FOR PROPELLING VESSELS. GEORGE R. BROWN, New Haven, Conn. Filed Mar. 22, 1926. Serial No. 96,525. 1 Claim. (Cl. 115—14.)



In a system of hydraulic propulsion of vessels, means comprising intake nozzles and ejecting nozzles, said latter nozzles being arranged to eject converging streams meeting at a point behind and adjacent to the stern of the vessel and means comprising additional ejecting nozzles for diverting said streams whereby reversing and stopping of the vessel is effected.

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1,694,841. RECOVERING VALUES BY EVAPORATION. HENRY W. CARR, San Francisco, Calif. Filed Apr. 30, 1927. Serial No. 188,050. 4 Claims. (Cl. 159—47.)

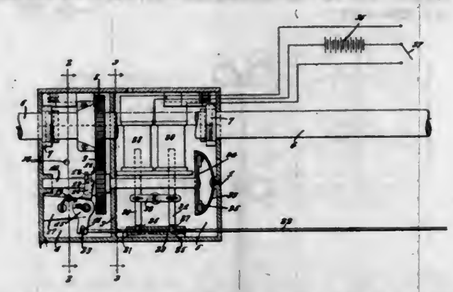


3. The method of recovering crystallizable residual values from liquid-containing materials which comprises dropping said material upon a hot bed of previously obtained residues of like nature with those to be recovered, said hot bed being of such temperature as to evaporate the liquid content of said material.

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1,694,842. ALARM FOR AUTOMOBILES. ZENAS ALBERT CURTIS, Cimarron, N. Mex., assignor of one-eighth to Merlin S. Cook, Lansdowne, Pa. Filed Aug. 16, 1921. Serial No. 492,826. 1 Claim. (Cl. 116—60.)

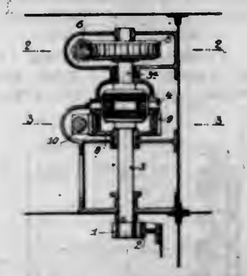
The combination with the drive shaft of a vehicle, a gear secured to and rotatable with the shaft, and spaced collars secured to the shaft, said gear interposed between the collars, of a housing supported by the shaft and held against longitudinal movement relative thereto by the collars, a second shaft journaled within the housing, an alarm element supported within the housing, means operated by said second shaft for sounding the alarm element, a gear in the housing feathered on said second shaft, a spring controlled lever, a connection between the lever and the feathered gear for holding said gear normally out of mesh with the gear on the drive shaft, and a shifting strip connected to the lever and guided by and extending outwardly from the housing for actuating the lever to move the feathered gear into mesh with the gear on the drive



shaft, the gear and collars on the drive shaft and the housing being operatively connected to the drive shaft at any desired point thereon.

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1,694,843. DEVICE FOR THE HORIZONTAL AIMING OF TURRETS COMPRISING SEVERAL GUNS. ROBERT DE COURSEULLES, Paris, France, assignor to Société Schneider & Co. and Compagnie des Forges & Acieries de la Marine & d'Homecourt, Paris, France. Filed Aug. 1, 1927, Serial No. 209,892, and in France Aug. 6, 1926. 4 Claims. (Cl. 89—37.)



1. Device for the horizontal aiming of turrets with several guns comprising a differential gear arranged upon the means for controlling this aiming, a ring of planetary wheels in this differential gear, a rack meshing with teeth carried by this ring, means for braking the longitudinal displacement of this rack, and means for automatically returning the said rack to the firing position.

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1,694,844. PROCESS FOR THE MANUFACTURE OF ARTIFICIAL FLOWERS. RAESFELD JEANNE DE GERSON, born Berthier, Paris, France. Filed Oct. 12, 1925, Serial No. 62,163, and in Germany Aug. 5, 1925. 5 Claims. (Cl. 41—13.)



1. In an artificial flower, a central pocket of lenticular shape, a powder within the said pocket for permitting the passage of the assembling threads for the petals, an armature constituted by a wire forming a circular handle and two unequal parallel branches, and means for securing the said pocket in the circular handle of the armature.

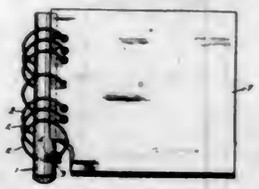
1,694,845. KNEADING DEVICE. EMANUEL DE TREY, Zurich, Switzerland. Filed Oct. 31, 1927, Serial No. 229,977, and in Switzerland Mar. 16, 1927. 4 Claims. (Cl. 259—112.)



1. A device of the type described, comprising in combination, a barrel, two pistons co-axially arranged in said barrel, one of said pistons being solid and the other perforated, and means adapted to reciprocate either of said pistons and independently or simultaneously of the other.

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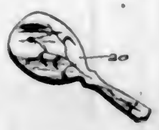
1,694,846. LOOSE-LEAF BINDER. FREDERICK A. DIESTELKAMP, Lowell, Oreg. Filed June 25, 1927. Serial No. 201,444. 2 Claims. (Cl. 129—23.)



2. In a loose leaf binder, a support, split rings carried by said support, one end of each ring being fashioned into an eyelet, the end of the eyelet being embedded in said support, whereby said support forms a part of the eyelet, the other end of each ring being removably receivable in the eyelet associated therewith.

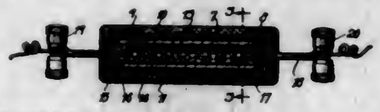
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1,694,847. DECORATED CELLULOSE ESTER ARTICLE AND METHOD OF MAKING SAME. ALFRED S. DONALDSON, Newark, N. J., assignor to Du Pont Viscoloid Company, Wilmington, Del., a Corporation of Delaware. Filed Oct. 7, 1927. Serial No. 224,730. 11 Claims. (Cl. 41—22.)



2. The process of producing decorated machinable articles which comprises decorating one side of a composition sheet, and compositing the decorated sheet with a second sheet of similar composition material by means of a binder, with the decoration between the two sheets.

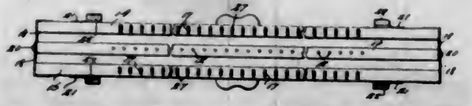
1,694,848. SOUND CLARIFIER. EDWARD H. FREEBORN, New York, N. Y., assignor to Cornelius C. Freeborn, Sr., New Milford, N. J. Filed Sept. 27, 1924. Serial No. 740,328. 3 Claims. (Cl. 201—76.)



1. A resistance element for use in a radio circuit comprising a tube, an insulator lining on the interior and exterior surfaces of said tube, a closure for each end of said tube, a metallic liquid solution in the tube consisting of mercury, ether and camphor and an electrode extending thru each of said closures and having its inner end disposed in said solution.

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1,694,849. KNITTING DEVICE. SUNAO FUJII, Honolulu, Territory of Hawaii. Filed Jan. 5, 1928. Serial No. 244,688. 7 Claims. (Cl. 66—4.)



1. A knitting device of the character described including three longitudinally extending bars disposed in parallel relation and adjustable toward or from each other, the middle bar having a longitudinally extending series of upstanding pins, the laterally disposed bars each having a vertically movable pin-carrying bar mounted thereon, the pin-carrying bar being shiftable to a lifted position with its pins on the same plane as the pins of the middle bar or to a lowered position with its pins below the level of the upper face of the middle bar, and means for holding the pin-carrying bars in their raised or lowered positions.

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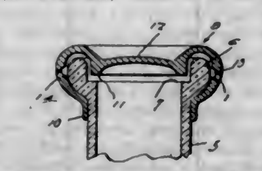
1,694,850. STRAIGHTEDGE FOR WALL-PAPER TRIMMERS. CHARLES E. GALVIN, Springfield, Ohio, assignor to The Ridgely Trimmer Company, Springfield, Ohio, a Corporation of Ohio. Filed Aug. 18, 1927. Serial No. 213,931. 3 Claims. (Cl. 33—107.)



1. The combination in a straight edge for wall paper trimmers, of a non-metallic member provided with a longitudinal groove on its upper surface adjacent one side edge thereof, a channel-shaped metallic strip applied to said adjacent edge of said non-metallic member with the legs of said channel embracing the surfaces of said member, with the lower leg of said channel strip bent inwardly toward the other leg so as to imbed it in said member, and the upper leg arranged in parallel relation to the adjacent surface of said member and extending part way over said groove.

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1,694,851. BOTTLE CAP. WILLIAM GLASS, Campbell, Ohio. Filed Sept. 14, 1927. Serial No. 219,461. 1 Claim. (Cl. 215—41.)



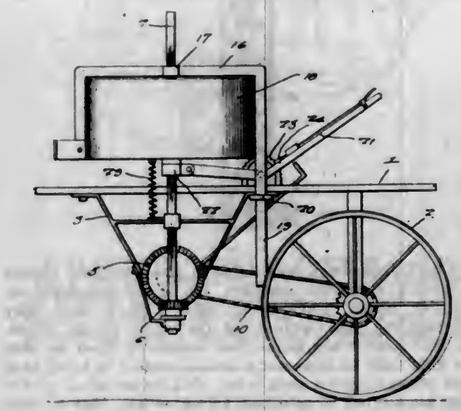
As a new product of manufacture, a bottle cap comprising a body composed of rubber including a concavo-convex



diaphragm merging at its marginal portion into an annular rib and formed beyond said rib with a surrounding rim portion of general channel-shaped cross section, said rim portion terminating in a ring-like band, and said rim portion being provided between its upper and lower ends and on its internal surface with an endless channel and circumferentially spaced openings communicating therewith and extending thru the exterior surface, said openings being inclined outwardly and downwardly.

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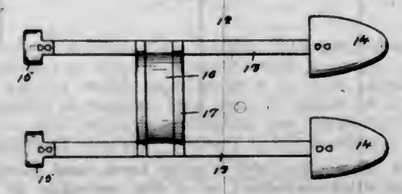
1,694,852. KAFIR-CORN HEADER. WALTER A. HARRELL, Richland, Kans. Filed Aug. 28, 1925. Serial No. 53,104. 1 Claim. (Cl. 56—57.)



In a structure of the class described, in combination, a pair of spaced parallel hangers, a horizontal shaft journaled in bearings in said hangers, a rotatable wheel axle, an operating connection between the axle and shaft, a vertically disposed driven shaft, an operating connection between the vertical shaft and the horizontal shaft, a unit slidable upon said shaft, said unit comprising a rectangular frame having a depending leg, a guide through which said leg extends, a shield mounted upon said frame, a cutter embodying a disk carrying cutting knives, a beater embodying a disk carrying beating fingers, a chute located for cooperation with the beater, a lever pivotally mounted upon a support, one end of said lever being engaged with said unit for raising it, and retaining means for the lever.

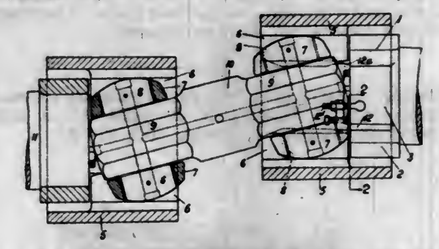
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1,694,853. SHOE PROTECTING AND HANDLING DEVICE. EDWARD C. HESS, Pittsburgh, Pa., assignor of one-half to Arthur L. Mass, Baltimore, Md. Filed May 26, 1928. Serial No. 280,889. 10 Claims. (Cl. 12—128.)



1. In combination, a pair of shoe trees each including a toe member, a heel member and a shank connecting said members, a relatively wide transversely flat bridge having its opposite ends connected with the shanks, and combined reinforcing and card retaining flanges extending along opposite edges of the bridge.

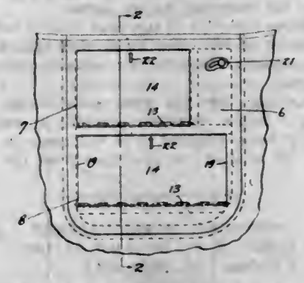
1,694,854. ROLLING MILL. THOMAS EDMUND HOLMES, Glasgow, Scotland. Filed Jan. 13, 1928, Serial No. 246,624, and in Great Britain Jan. 8, 1927. 3 Claims. (Cl. 80—1.)



1. In a rolling mill, in combination, a roll member, a pinion shaft member, one of said members having a pair of diametrally opposed projections, a universal spindle between said members, a trunnion projecting diametrally from said spindle, swivel blocks fitted to said trunnion, and a coupling box presenting a pair of opposed internal sockets to accommodate said swivel blocks and also presenting a pair of internal sockets to engage said diametrally opposed projections, said second pair of sockets being on a diameter transverse to the diameter passing through said first mentioned pair of sockets.

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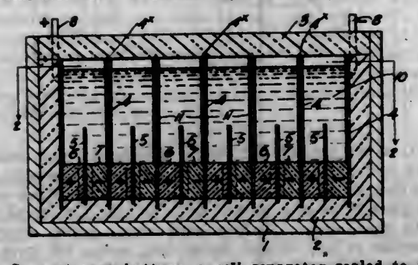
1,694,855. AUTOMOBILE DOOR POCKET. GEORGE C. IRONS, La Verne, Calif. Filed Dec. 1, 1926. Serial No. 152,023. 2 Claims. (Cl. 296—44.)



1. The combination with an automobile door, of a pocket hingedly secured to said door and being entirely receivable within the door when said pocket is in inoperative position, said pocket having an opening in one side thereof, this opening being disposed adjacent to the end of the pocket furthest removed from the hinge, said pocket being swingable into a position that inclines downwardly from the horizontal for causing articles to move toward the open end of said pocket.

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1,694,856. STORAGE BATTERY. JOHN GRANT JACKSON, Chatham, Ontario, Canada. Filed Jan. 2, 1925. Serial No. 254. 3 Claims. (Cl. 136—6.)

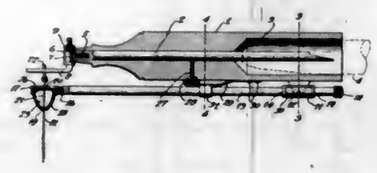


1. In a storage battery, a cell separator sealed to the insulating bottom and side cell walls and extending above

the positive and negative elements, said positive and negative elements abutting against opposed faces of said separator, substantially vertical open ducts being formed within the positive and negative elements at such separator faces in such a manner as to facilitate access of electrolyte into such positive and negative elements.

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1,694,857. APPARATUS FOR FILLING ROOT CANALS. IRVING KULIK, Brooklyn, N. Y. Filed Dec. 3, 1924. Serial No. 753,591. 20 Claims. (Cl. 32—7.)



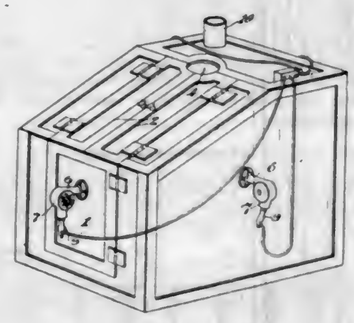
1. An apparatus for filling root canals embodying a receptacle adapted to be juxtaposed with a tooth to be filled and to contain material for filling the root canal of such tooth, an implement mounted to move into and out of the root canal, while in contact with the material in the reservoir for the purpose of transferring the material from the reservoir into the root canal, and means for operatively connecting said implement to a dental engine hand piece for operation by the latter.

13. A filling reservoir of constant volume for tooth filling apparatus, having rigid walls with openings at both ends, and a perforatable seal for normally sealing one of said openings.

18. A cartridge for use with tooth filling apparatus, comprising a hollow container provided at one end with a projecting flange adapted to be cut away to disconnect a part of the wall of the container from the remainder thereof.

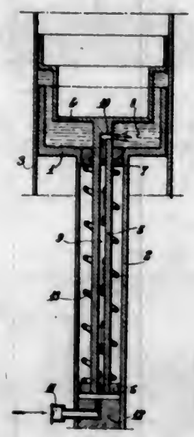
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1,694,858. DRY-HEAT BATH CABINET. ARCHER A. LANDON, Buffalo, N. Y. Filed Oct. 21, 1925. Serial No. 63,885. 4 Claims. (Cl. 128—256.)



1. A dry heat bath cabinet providing a closed chamber and having a source of heat to maintain a suitable high temperature in said chamber in combination with a nozzle dirigibly fitted in a wall of said chamber and discharging into the interior thereof, said nozzle being manually movable to any desired angle, and means for forcing a stream of heated dry air through said nozzle and into said chamber.

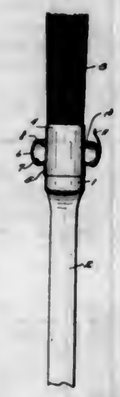
1,694,859. FLUID-TIGHT PISTON. EUGÈNE JULES LAUGAUDIN, Paris, France. Filed Dec. 23, 1927, Serial No. 242,190, and in France Dec. 23, 1926. 1 Claim. (Cl. 74—109.)



A fluid-tight piston constituted by two associated pistons resiliently connected together, the space comprised by the two piston heads being filled with a fluid body ensuring the fluid-tightness of the whole of the piston, the said space being maintained constantly filled up with the fluid body by means of a device tending to bring back both pistons against each other, this device being preferably constituted by a spring acting on the rods of both pistons, one of the said rods being hollow and the other being fitted in the first one, the fluid body being injected by means of a pressure lubricating device.

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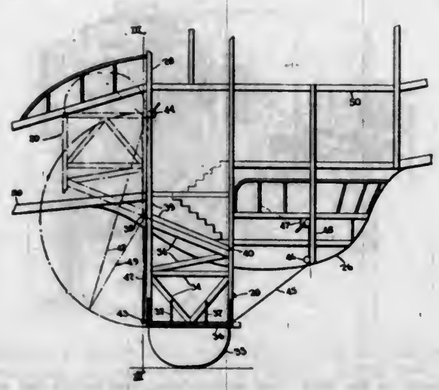
1,694,860. PAINTBRUSH. CHARLES C. LESIAK, Fullerton, Nebr. Filed May 3, 1928. Serial No. 274,923. 1 Claim. (Cl. 15—248.)



The combination with a paint brush head having a ferrule fitted thereabout, of a drip receptacle of substantially C-shaped cross-sectional design surrounding said ferrule with the open face directed toward the same, and a sleeve depending from the lower edge of the receptacle and snugly engaging about the ferrule, the top edge of the receptacle being directed downwardly toward and spaced slightly from the ferrule, said receptacle having a recess cut down through the top to form a drain opening.



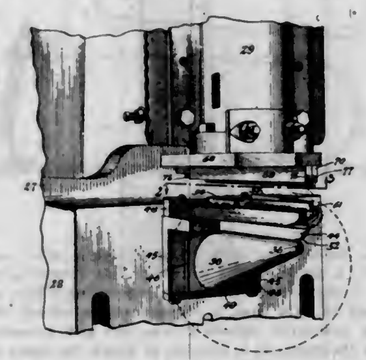
1,694,861. LANDING EQUIPMENT FOR AIRSHIPS. HERMAN RICHARD LIEBERT and WILHELM FISCHER, Akron, Ohio, assignors to Goodyear Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed Apr. 11, 1927. Serial No. 182,559. 6 Claims. (Cl. 244—3.)



3. In an airship having a fin secured to its lower portion, a two part landing bumper secured to the fin, means for drawing the parts of the bumper inwardly within the surface contour of the fin, and means for securing the parts of the bumper together in its operative position.

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1,694,862. SIDE-SEAMING PRESS. BROR J. LINDGREN, Buffalo, N. Y., assignor to Niagara Machine & Tool Works, Buffalo, N. Y., a Corporation of New York. Filed Apr. 4, 1927. Serial No. 180,652. 3 Claims. (Cl. 113—34.)

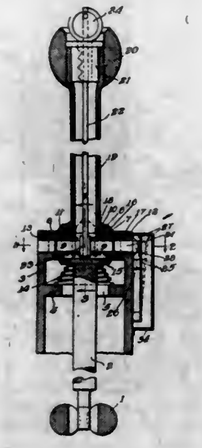


1. In a machine of the character described, the combination of two supports movable relatively to one another, a pair of tool holders mounted on each support and adapted to cooperate with the tool holders of the other pair, and means for changing the angularity of the holders of each pair relatively to one another.

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1,694,863. AUTOMOBILE LOCKING DEVICE. HUGH G. PRIGGE, Springfield, Ill.; Beatrice M. Prigge, administratrix of said Hugh G. Prigge, deceased, assignor to Beatrice M. Prigge. Filed Dec. 9, 1926. Serial No. 153,604. 5 Claims. (Cl. 70—127.)

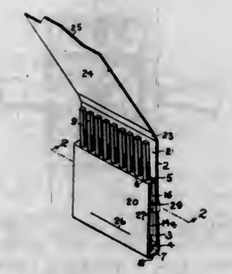
1. A device of the character described including gear shifting means, a housing having opposed openings therein, locking means carried by the gear shifting means and adapted to be projected into said openings for locking said



gear shifting means against movement, and means actuated by the locking means for breaking the circuit of the ignition system of a motor vehicle.

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1,694,864. MATCH BOOK. RODNEY S. PULLEN, Atlantic City, N. J., assignor to Pullenlite Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 23, 1927. Serial No. 186,097. 21 Claims. (Cl. 206—34.)



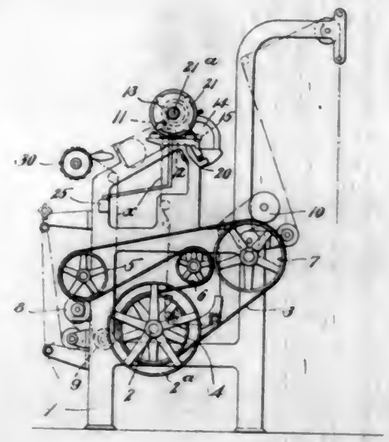
21. A match package comprising side walls and transverse walls forming a head compartment and a striking compartment containing striking material adjacent to the match sticks and in which the machines are spaced within apertures in the walls at the two ends of the striking compartment, the apertures at the head end of the compartment being a relatively tight fit upon the matches to retard the movement of the match heads and the apertures at the opposite end of the striking compartment being large enough to pass the match heads without objectionable retardation.

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1,694,865. CLOTH-FINISHING MACHINE. CHARLES G. RICHARDSON, Springfield, Vt., assignor to Parks & Woolson Machine Company, Springfield, Vt., a Corporation of Vermont. Filed Apr. 23, 1927. Serial No. 186,010. 5 Claims. (Cl. 26—15.)

1. In a cloth-finishing machine, the combination with cloth-guiding and cloth-feeding means, of a pivotal head,

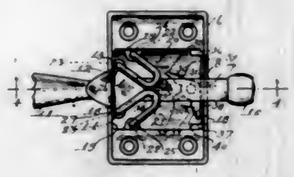
a rotary finishing element mounted in said head to permit its movement toward and away from the cloth-guiding means, a driving motor carried by said head and having



driving connection with the rotary finishing element, and means for controlling the starting and stopping of said motor independently of the cloth-feeding mechanism.

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1,694,866. LATCH. GORDON E. ROEDDING, Grand Rapids, Mich., assignor to Grand Rapids Brass Company, Grand Rapids, Mich., a Corporation of Michigan. Filed July 28, 1926. Serial No. 125,406. 6 Claims. (Cl. 292—332.)

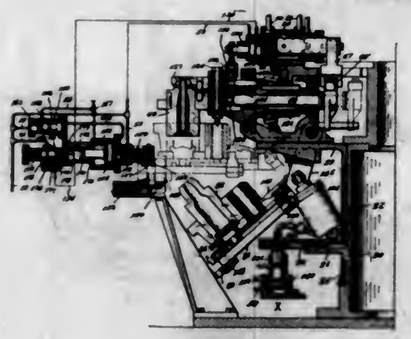


1. In combination with a keeper therefor, a latch comprising: a bolt carried by a door member swingably to latching position and to retracted position and having portions spaced apart in the bolt's transverse direction, said member having a surface on which one of said portions turns in the bolt's swinging movement; a pair of springs pressing said portions respectively to yieldingly hold the bolt in its latching position, at least one of the springs at a point in the bolt's movement toward any one of its said positions urging the same to that position, and at least one of the springs urging one of said portions into turning engagement with said surface in the bolt's swinging movement.

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1,694,867. GLASSWORKING MACHINE. ALEXANDER SAMUELSON, Terre Haute, Ind., assignor to Chapman J. Root, Terre Haute, Ind. Filed July 29, 1921. Serial No. 488,391. 9 Claims. (Cl. 49—9.)

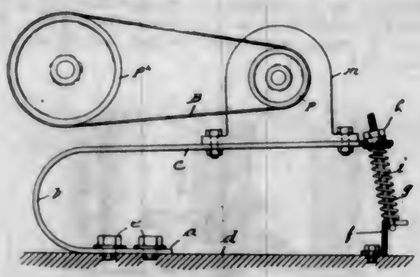
2. In a glass working machine, the combination of a manipulator for a blank mold, a manipulator for a neck ring, a manipulator for a blow mold, a blow mold carrier, means for moving said blow mold carrier to shift a blow mold into and out of blowing position, means controlled by the movement of the blow mold carrier for controlling the application of motive power to the blow mold manipulator, means controlled by the movement of the blow mold manipulator for controlling the application of motive



power to the neck ring manipulator and means for controlling application of motive power to the blank mold manipulator.

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1,694,868. MOTOR SUPPORT. ALBERT F. SAWYER, Haverhill, Mass., assignor to Irving L. Keith, Haverhill, Mass. Filed Feb. 12, 1927. Serial No. 167,661. 6 Claims. (Cl. 308—11.)



1. In combination with a base having a pulley mounted thereon, a motor having a driving belt extending to said pulley, a support for said motor comprising a base portion mounted on said base, a semi-circularly curved resilient portion connected thereto at one end and extending upwardly therefrom to a position in which its upper portion is approximately directly over its lower portion, and an elongated supporting portion for said motor, connected at one end to the upper end of said resilient portion and extending horizontally at the opposite side thereof from said pulley, and means for adjustably connecting the free end of said supporting portion to the base, to vary the distance between the pulley and the motor.

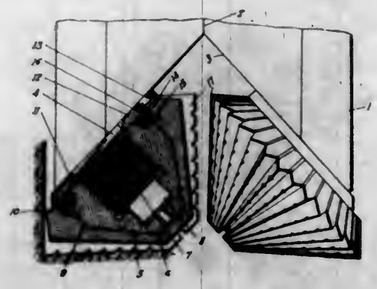
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1,694,869. CUTTER CONE FOR WELL DRILLS. FLOYD L. SCOTT and LOUIS H. WELLENSIEK, Houston, Tex., assignors to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Aug. 14, 1926. Serial No. 129,272. 3 Claims. (Cl. 255—71.)

3. In a rock drill including a head and a downwardly inclined cutter pin thereon, the combination of an approximately frusto-conical shaped bushing fixed to the



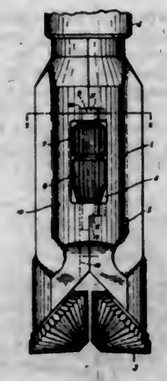
said pin, a forward tapered surface on said bushing, a materially extensive cylindrical surface of largest diameter, and a constricted neck on the upper end of said



bushing, a cutter fitting rotatably on said bushing and presenting an approximately horizontal cutting face to the bottom of the hole.

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1,694,870. SUPPORT FOR REAMER CUTTERS. FLOYD L. SCOTT, Houston, Tex., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Feb. 4, 1928. Serial No. 251,817. 4 Claims. (Cl. 255—73.)

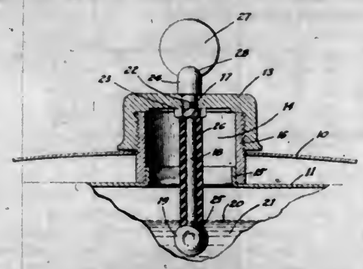


1. A reamer including a head longitudinally divided into a plurality of sections, said sections being formed with cutter pockets in their meeting faces, laterally projecting bosses formed on one of said sections interfitting within recesses on the adjacent section at the upper and lower ends of said pockets, cutter pin bearings in said bosses, pins in said bearings, and cutters on said pins.

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1,694,871. HEAT INDICATOR FOR INTERNAL-COMBUSTION ENGINES. LOUIS M. SPENCER, Detroit, and JOSEPH ZUBATY, Flint, Mich., assignors to A C Spark Plug Company, Flint, Mich., a Corporation of Michigan. Filed July 23, 1927. Serial No. 208,020. 5 Claims. (Cl. 116—114.)

1. In combination with the radiator of an automotive vehicle, a means for indicating temperature changes in the radiator comprising a rod extending through the cap thereof, an enlarged end on said rod extending below the surface of the water in the radiator, means for insulat-



ing the shank portion of said rod, and means at the opposite end of said rod for indicating temperature changes.

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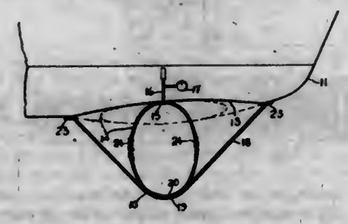
1,694,872. AIR-BAG VALVE. CORNELIS VAN RENNES, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 19, 1927. Serial No. 240,952. 8 Claims. (Cl. 18—45.)



1. An airbag comprising a hollow body and a tube traversing the wall of the body and terminating within the body an appreciable distance from the wall thereof, the portion of the tube disposed within the body being flexible.

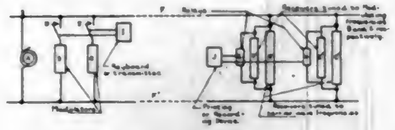
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1,694,873. LANDING BUMPER FOR AIRSHIPS. EUGEN BRUNNER, Akron, Ohio, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio, a Corporation of Delaware. Filed Sept. 3, 1926. Serial No. 133,398. 15 Claims. (Cl. 244—2.)



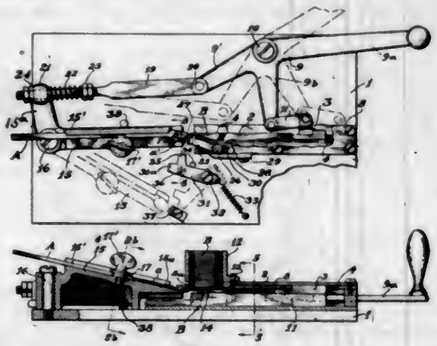
1. An airship landing bumper comprising an inherently elastic inflatable member and an elastic anchoring shield secured thereto.

1,694,874. METHOD OF ELECTRICAL SIGNALING. WILLIAM F. FRIEDMAN, Washington, D. C. Filed July 10, 1922. Serial No. 573,981. 2 Claims. (Cl. 178—51.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



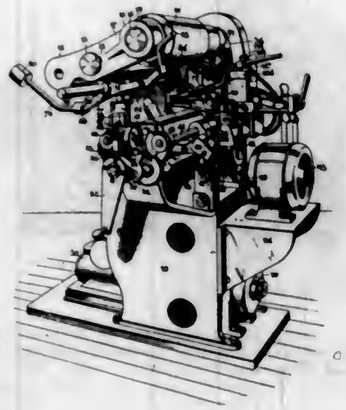
1. In a printing telegraph system, a source of high frequency electrical oscillations constituting a carrier wave, a set of modulators of different modulating frequencies which can be impressed upon said carrier wave, each of said modulators being associated with a make and break key which determines whether the modulating frequency controlled thereby will or will not be impressed upon the said carrier wave, said keys together comprising a single set of keys acting as a single unit associated with a keyboard mechanism, said keyboard mechanism being so constituted as to control said set of keys permutatively as a unit according to a plural-unit code suitable for the representation of message characters, means for transmitting the permutatively modulated carrier wave representing the message characters, a receiving station, means at said receiving station for detecting said transmitted permutatively modulated carrier wave, means for detecting the presence of and for isolating each modulating frequency of said permutatively modulated carrier wave, said latter means comprising a set of resonant circuits appropriate for the purpose, each of said resonant circuits being associated with and adapted to control a relay which is operative when the modulating frequency to which the respective resonant circuit is responsive is present, and is inoperative when the modulating frequency to which said resonant circuits is responsive is not present, a plurality of relays acting as a single unit associated with a printing mechanism, said printing mechanism being controlled as a unit by the joint and permutative action of said set of relays in such a manner as to print the message characters represented by the permutatively modulated transmitted and received carrier wave.

1,694,875. CARPET-WIRE BLADE-INSERTING MACHINE. HENRY J. GAISMAN, New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del., a Corporation of Delaware. Filed May 28, 1927. Serial No. 194,895. 13 Claims. (Cl. 29—84.)



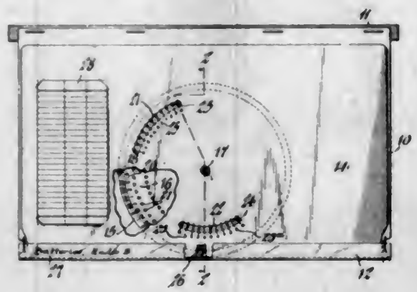
1. A machine of the character described comprising supporting means for carpet wires, means to insert blades in the wires, means to move said supporting means to and from blade receiving position, and means to eject blades from the carpet wires before the latter are brought to blade receiving position.

1,694,876. MACHINE FOR MANUFACTURING SOLID TIRES. JORGEN I. HAASE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 29, 1925. Serial No. 65,576. 21 Claims. (Cl. 154—9.)



1. A solid tire building machine comprising a frame having a rim supporting member rotatably mounted thereon, a rotatable rod having a guide roller secured thereto mounted adjacent the member, and means to rotate the rod and thereby the guide roller.

1,694,877. STOCK-INDICATING DEVICE. LE ROI E. HUTCHINGS, Tonawanda, N. Y., assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 8, 1926. Serial No. 93,107. 9 Claims. (Cl. 235—78.)

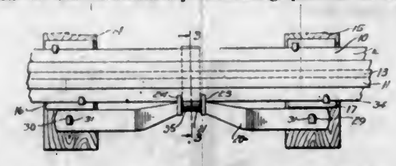


1. A stock indicator, comprising a support, and movable adding and subtracting members mounted thereon and bearing consecutively-arranged indicating characters, the characters of one member being arranged to read reversely to those of the other member when said members are moved in unison in the same direction, said members having registering openings for the reception of an actuating member.

1,694,878. RAIL ANCHOR. ROBERT EMMET KEOUGH, Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 2, 1927. Serial No. 171,953. 7 Claims. (Cl. 238—315.)

1. In a rail anchor, the combination with a rail gripping mechanism disposed below the rail base flanges and gripping the rail in the lateral portions of the flanges and comprising a downwardly extending portion below one of the rail base flanges and laterally extending wings rigidly joined to the downwardly extending portion at a substantial distance below the rail base flange, adapted to be secured to the adjoining pair of rail supporting ties to prevent lateral movement of the anchor in its lowermost portion.





1,694,879. METHOD OF TREATING AIR BAGS. STEWART S. KURTZ, Jr., Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Nov. 21, 1927. Serial No. 234,924. 9 Claims. (Cl. 18—50.)

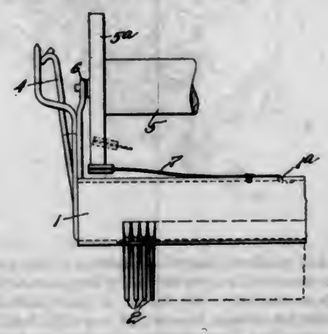
1. A method of preserving the interior surfaces of air-bags which comprises introducing into the bag a solution containing glycerine and a drying oil.

1,694,880. AIRSHIP. JESSE D. LANGDON, Los Angeles, Calif. Filed Mar. 31, 1927. Serial No. 179,909. 6 Claims. (Cl. 244—15.)



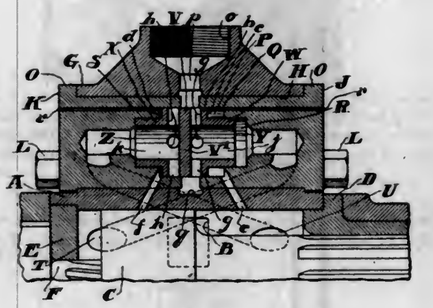
1. An airship having a propeller for forward propulsion, a helicopter helix comprising a blade extending through substantially a complete circle and disk shaped in plan with a radial split portion at the ends of the blade, means for mounting said helix for angular adjustment forwardly and rearwardly, and means for locking the helix against rotation with the split portion thereof at the rear.

1,694,881. SPOOL-RETARDING DEVICE FOR TUBE FRAMES. CHARLES LEA, Milton, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1927. Serial No. 180,152. 4 Claims. (Cl. 139—10.)



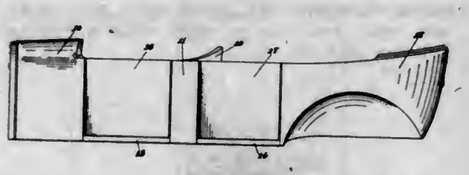
1. A spool-retarding device for a tube-frame embracing a flexible arm adapted to be secured to a tube-frame with its free end normally pressed toward a yarn-spool therein, said arm being slotted inwardly from its free end to form a pad-receiving recess having serrated sides, a non-metallic friction pad having oppositely disposed external grooves for engagement with the serrated interior edges of said recess to retain the pad in its operative position while allowing it to be withdrawn therefrom.

1,694,882. VALVE FOR ROCK DRILLS. EARL B. LEAR, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 30, 1927. Serial No. 216,403. 4 Claims. (Cl. 121—19.)



1. In a fluid actuated rock drill, the combination of a cylinder and piston, a valve chest having a valve chamber and a supply chamber, inlet passages leading from the valve chamber to the cylinder, a distributing valve in the valve chamber, said valve having bores in its ends and admission passages opening into the bores for admitting pressure fluid from the supply chamber into the inlet passages, and kicker passages conveying pressure fluid from the cylinder to the valve chamber for actuating the valve.

1,694,883. AUTOMOBILE BODY. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 28, 1923. Serial No. 683,145. 20 Claims. (Cl. 296—28.)



1. In an automobile body, the combination of a pair of metal sills disposed at opposite sides of the body and extending longitudinally thereof, each of said sills including a horizontal body portion and a vertical flange at the inner edge thereof, comprising front and rear portions, which are longitudinally straight and in line with each other, and an intermediate portion offset outwardly of the sill, and a plurality of sheet metal panels rigidly secured to said sills and forming the body shell.

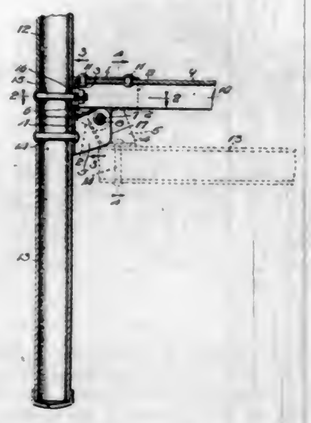
20. A pressed metal side sill stamping for vehicle bodies extending from the front of the cowl to the rear of the body and having its outer edge offset, in the vicinity of the front of the wheel housing, inwardly and upwardly.

1,694,884. MANUFACTURING OF DYESTUFFS FROM NAPHTHIDINE. GEORGES LE FLOCH, Paris France. Filed Dec. 13, 1923, Serial No. 680,349, and in France Dec. 21, 1922. 1 Claim. (Cl. 260—56.)

The method of manufacturing 3-10 perylene quinone which includes causing a reaction of a ring-forming agent upon a substance containing the naphthidine radical, and energetically oxidizing the product thereby obtained.

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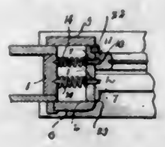
1,694,885. HINGE. WILLIAM A. MATHESON, Chicago, Ill., assignor to Roll-a-Way Bed Corporation Chicago, Ill., a Corporation of Illinois. Filed May 11, 1923. Serial No. 638,179. 7 Claims. (Cl. 5—312.)



1. In a bed construction, a post comprising a pair of sections arranged end to end, a rail, and a hinge comprising a pair of members, one of which connects said rail to one of said post sections and the other of which is secured to the first-mentioned hinge part and to the other post section, said hinge members adapted to abut against one another when the post sections are arranged end to end, and one of said hinged members abutting against said rail when said post sections are swung substantially perpendicular to each other.

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1,694,886. WINDOW. SAMUEL A. MCCLELLAN, Salineville, Ohio. Filed Dec. 27, 1927. Serial No. 242,020. 2 Claims. (Cl. 20—12.)



1. In a window, the combination with the frame and sliding sash, of a guide carried by the frame, and adapted to engage a groove of the sash, and a spring normally exerting a pressure upon the guide to hold it in frictional engagement with the sash, whereby to hold the latter in an adjusted position, and means for varying the tension of the spring to regulate the frictional engagement between the guide and sash.

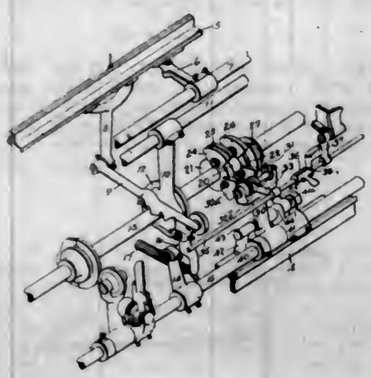
1,694,887. SHORE-BRACE CLIP. CHARLES LOUIS MEYER, Omaha, Nebr., assignor to Concrete Engineering Company, Omaha, Nebr., a Corporation of Nebraska. Filed May 4, 1927. Serial No. 188,788. 3 Claims. (Cl. 304—40.)



1. A clip of the character described comprising, a substantially V-shaped element the angle included between the legs of the element being less than 90 degrees, one of the legs having an aperture therethrough, said aperture being of greater dimensions in one direction than the corresponding transverse dimension of a shore adapted to be passed therethrough, whereby certain of the edges of the said leg about said aperture will be engaged with said shore on substantially opposite sides thereof when the other said leg of said element extends substantially parallel with the side of the shore.

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1,694,888. UNIVERSAL LOOP-REGULATING MECHANISM FOR FULL-FASHIONED-KNITTING MACHINES. CHRISTIAN F. MEYER, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a Corporation of Pennsylvania. Filed Dec. 24, 1927. Serial No. 242,416. 15 Claims. (Cl. 66—82.)



9. In a full-fashioned knitting machine, a loop regulating mechanism comprising a needle-bar, a loop-regulating shaft operatively connected to the latter, a longitudinally shiftable cam shaft having a loop-regulating cam fixed thereto, and a cam-actuated lever mounted on said loop-regulating shaft; said lever being rotatably locked to said loop regulating shaft by longitudinal shift of the cam shaft.



1,694,889. RETRACTABLE LIGHT FOR AIRCRAFT. CHARLES NORTON MONTEITH, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed May 14, 1928. Serial No. 277,531. 1 Claim. (Cl. 240—7.1.)



An airplane wing of usual streamline formation, a compartment formed therein adjacent to the wing beam near the leading edge of said wing, an apertured and rigid cover plate for said compartment, a light swingably mounted to said wing beam, means for causing radial movement of said light through said cover plate, said means including a worm gear and gear segment, said worm gear being rotatable by means of control cables extending therefrom to the cock-pit of the airplane, said gear segment being mounted to a hollow shaft and carrying said light by means of a bracket, an electrical circuit embracing said light and extending thru said hollow shaft thence to an electric source of energy.

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1,694,890. PRIMING MIXTURE FOR SMALL-ARMS AMMUNITION. HARLEY T. PECK, Lebanon, Ohio, assignor to The Peters Cartridge Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 27, 1927. Serial No. 201,976. 4 Claims. (Cl. 52—3.)

1. A priming mixture containing mercury fulminate, barium nitrate, lead chromate, and lead sulphocyanate.

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1,694,891. DUST-MOP CLEANER. ADOLPH RADO and ADELAIDE D. W. RADO, East Orange, N. J. Filed Apr. 6, 1927. Serial No. 181,392. 3 Claims. (Cl. 15—142.)



1. A device of the class described comprising a receptacle having an open upper end and formed with an inwardly extending bead adjacent its upper end to form a seat, a plate insertable in the upper end of said receptacle and adapted to rest on said bead, a foraminous basket depending from said plate and extending within said receptacle for the purpose set forth, said plate having an opening over said basket, and movable cover members for closing said opening in said plate.

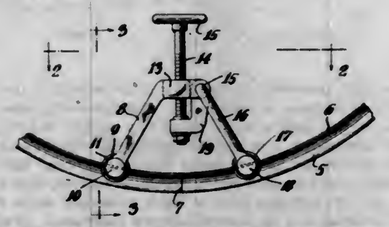
1,694,892. BOX COVER. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Feb. 7, 1927. Serial No. 166,402. 4 Claims. (Cl. 229—8.)



1. An element of a mercantile package comprising a box lid having an outside sheet of lustrous material, and a lace handkerchief detachably secured to said sheet and extending flatly over the same so that its lace is set off by said sheet.

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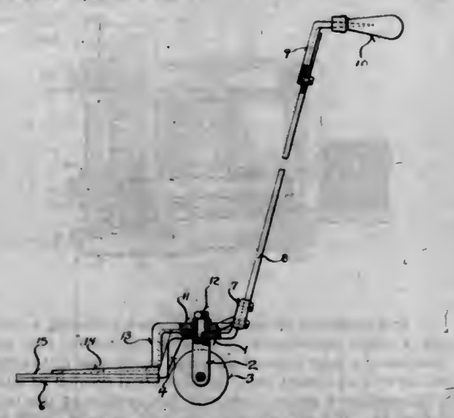
1,694,893. TIRE-RIM TOOL. XAVER SCHNEIDER, Yonkers, N. Y. Filed Aug. 31, 1927. Serial No. 216,520. 1 Claim. (Cl. 157—1.)



A tool for separating the section of a tire rim comprising a block, a pair of arms fixed to said block, a second pair of arms rotatable in said block, collars on the lower ends of said arms, screws engaged in said collars, disc heads on the inner ends of said screws, said heads being provided with a transverse groove adapted to grip the side edges of the rim, a lever fixed to said second pair of arms, and means rotatable in said block adapted to move said lever in an arcuate path to separate said arms.

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1,694,894. LAWN TRIMMER. REUBEN ST. CLAIR, Milwaukee, Wis. Filed Sept. 2, 1926. Serial No. 133,227. 1 Claim. (Cl. 56—241.)

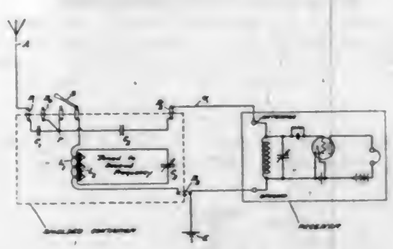


A lawn trimmer comprising a body portion provided with a horizontal elongated laterally extending roller, an up-

wardly and rearwardly extending arm rigid with said body portion, a shear blade rigid with said body portion and carried in front of said roller, a member pivoted to said body portion at a point directly over the center of said roller, a second shear blade cooperating with said first mentioned shear blade and rigid with said member and an upwardly and rearwardly extending arm rigid with said member, each of said upwardly and rearwardly extending arms having horizontal rearwardly directed handles rigid therewith and located at their upper ends, whereby said rearwardly directed handles control the direction of motion of translation of the device and whereby relative motion between said handles causes relative motion between said shear blades.

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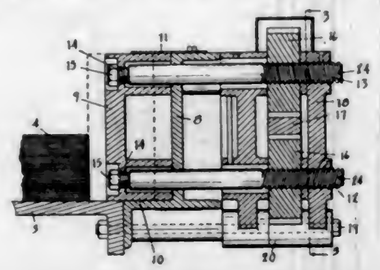
1,694,895. HIGH-FREQUENCY ELECTRICAL SYSTEM. ALBERT HOYT TAYLOR and LEO C. YOUNG, Washington, D. C. Filed May 15, 1924. Serial No. 713,546. 2 Claims. (Cl. 250—20.)



2. A high frequency electrical current selective unit for connection between the input of a high frequency signal receiving circuit and a radio frequency energy distribution circuit comprising a casing, an apparatus unit having terminals interposed in said radio frequency energy distribution circuit and in said signal receiving circuit, said apparatus unit including a pair of fixed condenser units interposed in series and connected between individual terminals on said casing, a coupled rejector within said casing connected with terminals thereon, and switching means carried by said casing for connecting said coupled rejector with a point intermediate said fixed condensers for preventing transfer of high frequency signaling energy from said high frequency signal receiving circuit to said high frequency energy distribution circuit.

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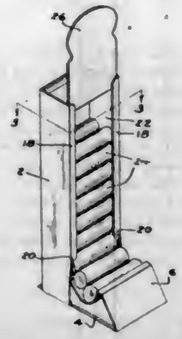
1,694,896. PAPER CUTTER. CLARENCE O. THORNE, Watervliet, Mich. Filed Apr. 9, 1927. Serial No. 182,340. 6 Claims. (Cl. 164—59.)



1. In a structure of the class described including a cutter and a table operatively associated therewith, the combination of a gage support mounted at the side of the table and having an angled face, the horizontal portion of which is disposed in a plane flush with the surface of the table, a gage bar slidably mounted on said support, adjusting screws slidable in said support and adjustably connected to said gage bar, adjusting pinions having threaded engagement with said screws, a rack bar coacting with said pinions whereby they are simultaneously rotated as the rack bar is reciprocated, and a second gage adjustably mounted on said table at right angles to said gage and in parallel relation to said cutter.

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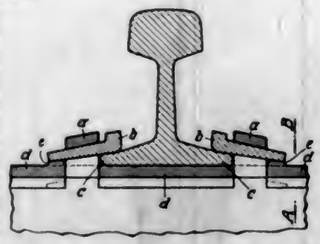
1,694,897. DISTRIBUTING DEVICE. WALTER BAILEY CHAFFIN WASHBURN, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a Corporation of New York. Filed Aug. 19, 1927. Serial No. 214,026. 2 Claims. (Cl. 312—42.)



1. In a distributing device, the combination of a vertical chute having inwardly turned forward edges and adapted to hold two columns of cylindrical packages, a discharge opening below the lower ends of said edges having a width less than the depth of said chute and greater than one-half of said depth, a floor for said chute having a sloping portion extending beyond the front of said chute, and an abutment coacting with said floor and located in front of said chute at a distance approximately equal to its depth, the rear portion of said floor being substantially horizontal.

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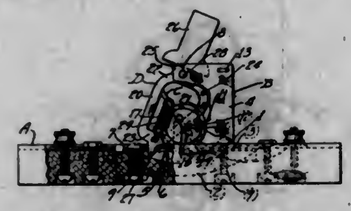
1,694,898. DEVICE FOR FASTENING RAILS. FRIEDRICH WILHELM WEBER, Bochum, Germany, assignor to the Firm: Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Filed Feb. 9, 1927, Serial No. 166,991, and in Germany Feb. 9, 1926. 3 Claims. (Cl. 238—331.)



1. Means for securing railway and like rails to sleepers comprising a bridge rigidly secured to the sleeper at each side of the rails, a wedge-shaped member to be inserted under each bridge, and characterized by the fact that the under side of the bridge, the wedge counterpart embossed on the sleeper and the top face of the rail base constitute a wedge-shaped seat which tapers in a direction away from the rail web, in such a way so that after the rail is placed between said bridges each wedge may be introduced into said seat, the upper surface of said wedge frictionally engaging the under side of the bridge and the lower surface thereof frictionally engaging said rail base and said wedge counterpart.



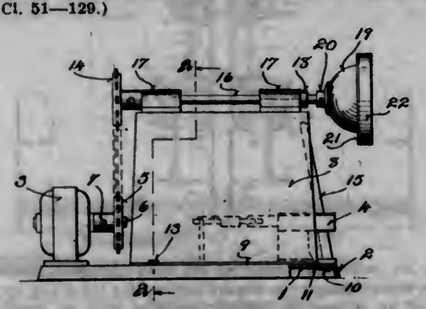
1,694,899. ELECTRIC SNAP SWITCH. WILLIAM WURDACK, Jr., St. Louis, Mo., assignor to Wurdack Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 3, 1925. Serial No. 34,559. 14 Claims. (Cl. 200—67.)



1. An electric snap switch including, in combination, a pair of spaced rigid walls having a pair of aligned bearings, a member mounted upon said bearings for oscillatory movement relatively to the walls, contact-blades carried by said member, a manipulating member supported for oscillation by said walls and comprising a skeleton frame embracing a portion of the blade-carrying member, the manipulating member being adapted for impinging engagement at a side of its frame with the blade-carrying member when said blades are in circuit-closing position, and a coil spring having attachment at its ends with said portion of the blade-carrying member and with the manipulating member for imparting rocking movement to the blade-carrying member upon oscillation of the manipulating member.

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1,694,900. BOWLING-BALL-POLISHING ATTACHMENT FOR PIN TRIMMING AND POLISHING MACHINES. OTTO E. ZIMMERLING, Wauwatosa, Wis. Filed Nov. 10, 1927. Serial No. 232,376. 2 Claims. (Cl. 51—129.)

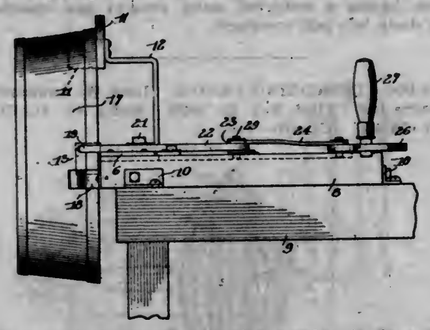


1. The combination of a pin trimming and polishing machine for bowling pins and an attachment therefor, said machine comprising a base plate having apertures adjacent its front end and apertures adjacent its rear end, a driving motor carried by said base plate, a sprocket wheel removably carried by said driving motor, said attachment having a support provided with prongs adapted to fit into the first mentioned apertures and having means for engaging within the second mentioned apertures, an elongated shaft carried by the upper portion of said attachment, a sprocket wheel carried by the rear end of said shaft and adapted for operative driving from said first mentioned sprocket wheel, and a ball polishing head carried by the forward end of said shaft.

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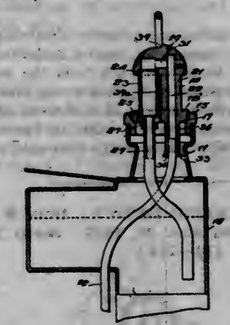
1,694,901. MECHANISM FOR ATTACHING WIRE HANDLES TO BASKETS. CHARLES H. ALLEN, Penn Yan, N. Y., assignor to Yates Lumber Company, Penn Yan, N. Y., a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,103. 6 Claims. (Cl. 140—93.)

1. A machine for attaching a wire handle to a basket comprising a handle engaging block loosely mounted for slight movement relatively to the handle and positionable interiorly of the handle with opposite portions of the block engaging opposite portions of the handle, jaws movable toward the handle engaging member to force the handle attaching devices through the basket, and means for effecting simultaneous movement of the jaws.



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1,694,902. INDICATOR. JOHN W. ANDERSON, Gary, Ind. Filed May 24, 1926. Serial No. 111,345. 12 Claims. (Cl. 116—114.)



1. A method of indicating thermal conditions in an automobile radiator having an overflow tube therein, which method comprises utilizing the pressure caused by a rise in temperature of the liquid in the radiator to raise a column of fluid above the radiator so that it may be observed by the driver of the automobile, and discharging said fluid through said overflow tube.

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1,694,903. INDICATING APPARATUS. JOHN W. ANDERSON, Gary, Ind. Filed May 29, 1926. Serial No. 112,712. 8 Claims. (Cl. 116—114.)

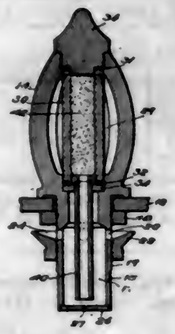


1. A device for indicating the thermal conditions in a receptacle holding liquid, said device comprising a chamber

for accumulating the condensate of vapor rising from said liquid, and means through which the amount of accumulated condensate in said chamber may be observed, said device having a restricted outlet whereby said chamber may drain into said receptacle.

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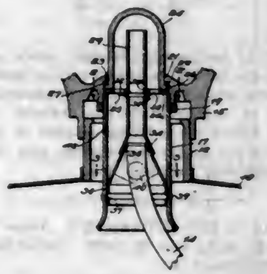
1,694,904. INDICATING DEVICE. JOHN W. ANDERSON, Gary, Ind. Filed May 29, 1926. Serial No. 112,718. 11 Claims. (Cl. 116—114.)



1. A device for indicating pressure obtaining in a receptacle, said device comprising means including a tubular glass for utilizing liquid obtained from the receptacle for indicating said pressure, said glass being provided with a roughened surface arranged to be contacted by said liquid and said device being provided with an aperture through which all of said liquid may drain into said receptacle.

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1,694,905. INDICATING DEVICE. JOHN W. ANDERSON, Gary, Ind. Filed Mar. 28, 1927. Serial No. 178,991. 9 Claims. (Cl. 116—114.)

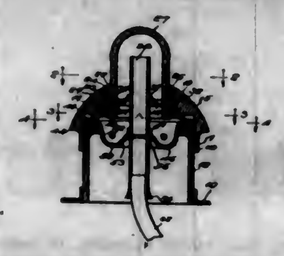


1. The combination with an automobile radiator having a filling opening, and an overflow tube, the upper end of the overflow tube being centrally disposed in said filling opening, a cap for said filling opening, a transparent hollow member carried by said cap and concentrically disposed with said upper end of said overflow tube, said hollow member communicating with the interior of said radiator, means for retarding the flow of fluid into said hollow member, and tubular means projecting into said hollow member and communicating with said overflow tube, said tubular means being carried by said cap.

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1,694,906. INDICATOR FOR COOLING SYSTEMS. JOHN W. ANDERSON, Gary, Ind. Filed Mar. 28, 1927. Serial No. 178,992. 4 Claims. (Cl. 116—114.)

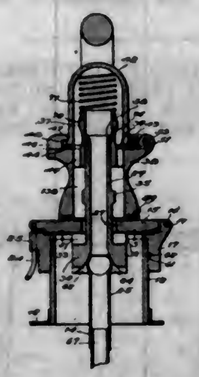
1. An indicating device of the kind described comprising an apertured closure member for the filling opening of an automobile radiator provided with an overflow pipe, a substantially transparent hollow member mounted on said closure member and arranged to communicate with the interior of said radiator, means whereby vapor and liquid



may flow from said hollow member into said overflow pipe, and means forming a pocket for collecting condensate from said hollow member, said pocket being so positioned that vapor passing upwardly through said hollow member will carry a portion of the condensate with it.

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1,694,907. INDICATING MEANS. JOHN W. ANDERSON, Gary, Ind. Filed Mar. 28, 1927. Serial No. 178,993. 21 Claims. (Cl. 116—114.)



1. An indicating device of the kind described adapted to be mounted upon the closure member for the filling opening of an automobile radiator provided with an overflow pipe, said indicating device comprising a tube arranged to project through an aperture in said closure member, a tubular member having a tubular extension engageable with the upper end of said tube, a transparent hollow member communicating with the interior of said radiator through said tubular member and said aperture, said hollow member communicating with said tube through said tubular extension, and a second tube whereby the first tube communicates with said overflow pipe.

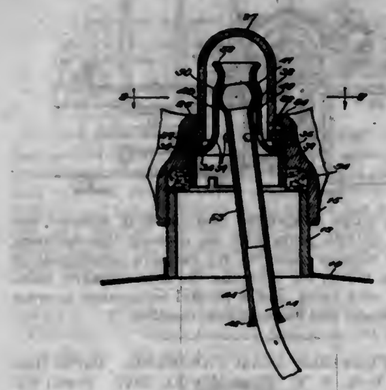
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1,694,908. INDICATING DEVICE FOR COOLING SYSTEMS. JOHN W. ANDERSON, Gary, Ind. Filed Apr. 25, 1927. Serial No. 186,547. 9 Claims. (Cl. 116—114.)

1. An indicating device of the kind described comprising an apertured closure member for the filling opening of an automobile radiator provided with an overflow pipe, a hollow member in which the presence of vapor or liquid may be observed, said hollow member being carried by said closure member and being positioned thereabove to receive vapor and liquid from said radiator through said aperture in said closure member, a tubular member carried by said closure member having an aperture for the



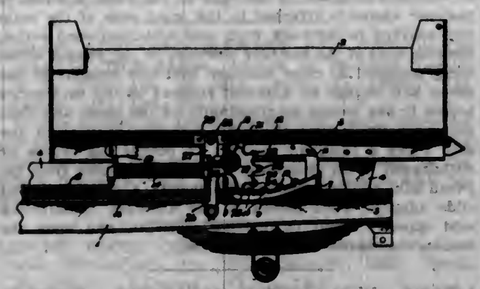
passage of fluid from said closure member to said hollow member, and a tube adapted to be positioned upon said overflow pipe and arranged to form a ball and socket joint



with said tubular member, said tube being adapted to discharge vapor and liquid from said hollow member into said overflow pipe.

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1,694,909. HYDRAULIC DUMPING-BODY HOIST. EDWARD R. BARNETT, Detroit, Mich., assignor to Wood Hydraulic Hoist & Body Company, Detroit, Mich., a Corporation of Michigan. Filed July 25, 1927. Serial No. 208,074. 12 Claims. (Cl. 298—22.)

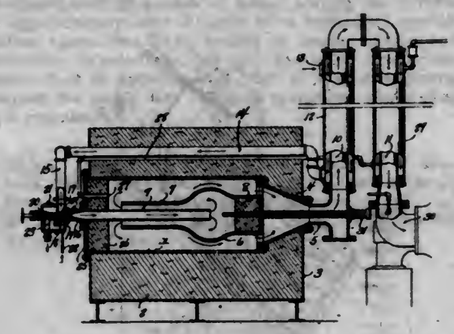


8. In combination with a truck frame having a dumping body tiltably mounted thereon, a hoisting device comprising, a rack associated with said frame, a gear segment mounted to traverse said rack, a link eccentrically connected to said gear segment and also connected to said body, and means for traversing said gear segment on said rack.

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1,694,910. OIL-GAS APPARATUS. ALVIN J. BASSETT, Milwaukee, Wis., assignor to The Bruce MacBeth Engine Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 31, 1924. Serial No. 717,071. 4 Claims. (Cl. 48—107.)

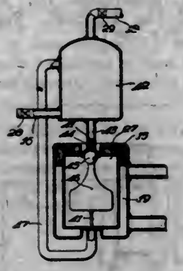
1. An oil gas apparatus comprising a closed retort, a retort tube having a closed end fixed to the forward end of said retort and spaced to the rear wall thereof, and having a rear open end in proximity to said rear wall of the retort, a partial combustion oil vaporising feed tube extended through the rear wall of the retort into the open end of the retort tube and to a point within said retort tube such as to effect the desired partial combustion of the



oil in said feed tube, means for feeding oil and air into the partial combustion oil vaporizing feed tube, and a gas outlet from said retort.

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1,694,911. METHOD OF AND MEANS FOR FEEDING FUEL BY WASTE HEAT. JOHN A. DIENNER, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1921. Serial No. 511,877. 7 Claims. (Cl. 158—36.4.)



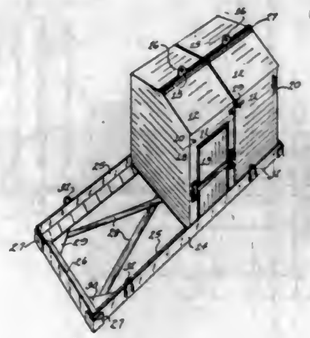
1. In combination, an internal combustion engine, a carbureter therefor, a fuel supply tank, a fuel pumping chamber having an inlet communicating with said supply tank and an outlet communicating with said carbueter, a jacket associated with said chamber for receiving the exhaust gases of said engine, and a level responsive valve for said chamber operating to trap the liquid vapors in said chamber and create pumping pulsations for feeding the fuel to said carbureter.

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1,694,912. MEANS FOR HANDLING FREIGHT. BENJAMIN F. FITCH, Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,252. 15 Claims. (Cl. 214—38.)

1. The method of handling freight consisting of loading it into containers, placing a number of such containers

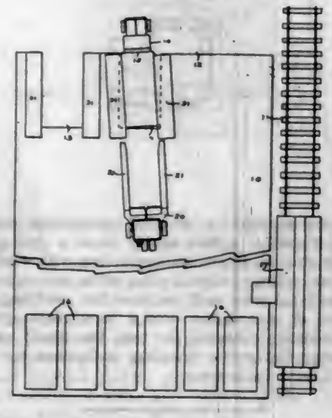
side by side on a portable frame, lifting the frame and containers as a unit and depositing it in coaction with positioning means on a transportation device.



14. An apparatus for handling freight consisting of a plurality of doored containers, a portable carrier having obstructing means adapted to extend across the doors of the containers to prevent opening the doors when the containers are placed side by side on the carrier, and mechanism for moving the carrier with the containers as a unit and positioning the same on a vehicle.

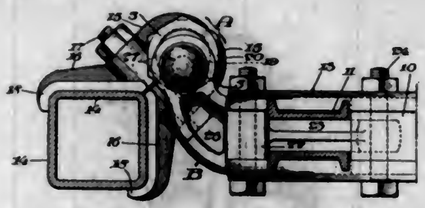
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1,694,913. FREIGHT-HANDLING APPARATUS. BENJAMIN F. FITCH, New York, N. Y., assignor to Motor Terminals Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 16, 1926. Serial No. 129,470. 12 Claims. (Cl. 214—38.)



1. In combination, a freight platform, a truck runway adjacent thereto, and means associated with the platform and movable with reference thereto for providing an extension of the platform along opposite sides of a truck positioned on the runway.

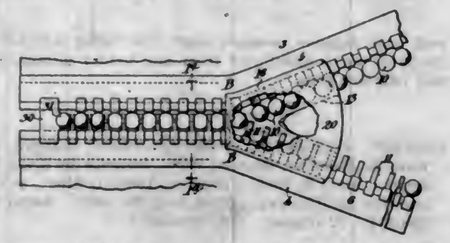
1,694,914. GATE HINGE. LOUIS A. HAWTHORNE, Hillside, N. J., assignor to Anchor Post Fence Company, Garwood, N. J., a Corporation of New Jersey. Filed May 7, 1927. Serial No. 189,474. 4 Claims. (Cl. 16—131.)



1. A gate hinge comprising two elements whereof one is composed of two parts with an opening therebetween, an eccentric member mounted for rotative adjustment in said opening, means for clamping the said eccentric member between said parts, and a pivotal connection between the other element and the eccentric member.

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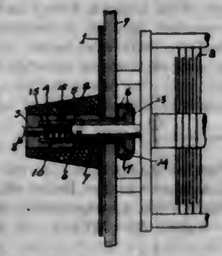
1,694,915. FLEXIBLE SEAM FASTENER. DAVID HELLER, New York, N. Y. Filed May 11, 1927. Serial No. 190,438. 11 Claims. (Cl. 24—205.)



1. A seam-fastening device comprising a series of fastener elements attached to one edge of the seam, a series of fastener elements attached to the other edge of the seam and adapted to interlock with said first-mentioned series, the free ends of the fastener elements in one of said series being disposed so close together that one element in the series will engage an adjacent element in the said series before it has swung longitudinally of the seam and thus separated itself from the other adjacent element in the said series a sufficient distance to permit the escape or withdrawal of an element of the opposite series from between said two last-mentioned elements, and an actuating slide adapted when moved in one direction to interlock said opposite series of fastener elements, and upon the reverse movement to separate them.

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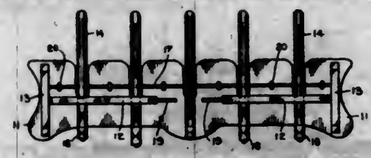
1,694,916. DUAL-CONTROL APPARATUS. JOSEPH T. HICKMAN, Washington, D. C. Filed June 30, 1924. Serial No. 723,271. 2 Claims. (Cl. 74—7.)



1. A mechanism of the class described including, in combination, a plurality of rotatable members, pulleys rotatably mounted with the members, cables trained over the pulleys, elements for operating the rotatable members, and clutches controllable by the elements for rotating the pulleys.



1,694,917. TOY. HENRY GOWER HOSE, Brooklyn, N. Y. Filed Jan. 7, 1928. Serial No. 245,240. 3 Claims. (Cl. 273—100.)



1. In a game device, the combination with a supporting frame, of a plurality of arms pivotally supported on said frame, said arms being balanced upon said frame so that each arm will normally lie at a predetermined angle to the vertical and being adapted to be moved out of said angle and into another position, said arms being balanced respectively in such manner that one of said arms is more easily depressed than another of said arms.

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1,694,918. FOUNTAIN-PEN DESK SET. CARL HORIX, Chicago, Ill. Filed June 11, 1927. Serial No. 198,020. 11 Claims. (Cl. 40—111.)



1. In combination, a receptacle, an arched cover for said receptacle, a frame removably held within said cover, a shaft mounted in said frame, character wheels separately journaled on said shaft, spindles geared to said character wheels and extending through said cover to points outside of said cover, and finger-pieces mounted on the outer ends of said spindles for rotating said character wheels.

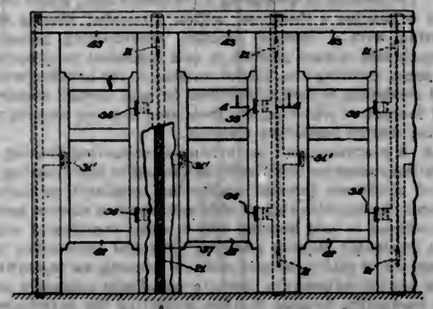
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1,694,919. DRY-CELL ELEMENT AND METHOD OF MAKING THE SAME. LESLIE G. JENNESS, Leonia, N. J. Filed Feb. 18, 1927. Serial No. 169,419. 14 Claims. (Cl. 136—124.)

1. The method of producing bobbins which comprises adding substances, which will cause precipitation of a substance that will give hardness to the bobbin, to the bobbin ingredients and molding said sustances with the bobbin ingredients.

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1,694,920. BOOTH CONSTRUCTION. WILLIAM S. KAPNEK, Philadelphia, Pa. Filed Mar. 27, 1928. Serial No. 265,113. 9 Claims. (Cl. 72—16.)



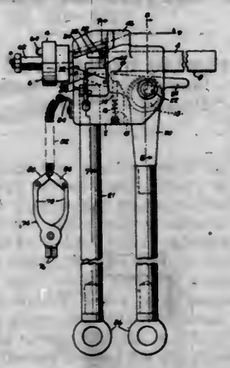
1. In a booth compartment structure, the combination of wall plates, tie-bars secured thereto and extending horizontally therefrom in spaced relationship, vertical T-bars adjustably secured to the outer ends of the tie-bars, and panel plates secured in vertical planes flanking the tie-bars.

1,694,921. CHEESE FORMULA. HERMAN H. KAUFMANN and AUGUST H. KAUFMANN, Cascade, Wis. Filed Sept. 27, 1926. Serial No. 138,118. 2 Claims. (Cl. 99—11.)

2. The process of making curd cheese which comprises grinding approximately 100 pounds of standard curd to a fluffy mass, adding approximately 3 pounds of sodium phosphate, and 25 pounds of water, heating the mixture to approximately 160° F. until it is thoroughly melted, adding approximatelp 98 pounds of ground cheese and thoroughly stirring the mixture, thereafter raising the temperature to approximately 160° F. and subsequently running the liquid into foil-lined containers and sealing such containers.

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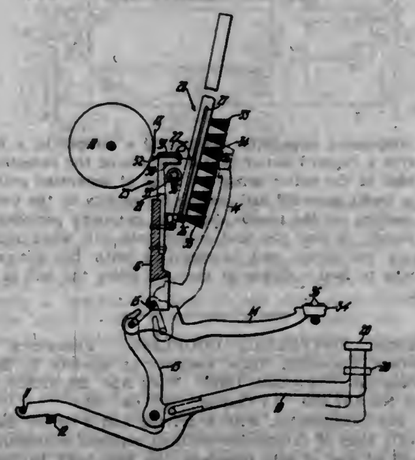
1,694,922. DRAWING APPARATUS. DELAMAR C. KINNEAR, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 24, 1928. Serial No. 256,683. 7 Claims. (Cl. 140—123.5.)



1. In an apparatus for drawing connectors, the combination of a tool head having laterally opening clamping jaws on each side, a draw bar lying in a plane separating said jaws, a die carried by said draw bar, a pawl for propelling said draw bar, and pawl operating handles extending parallel to said separating plane, one of said handles being rigidly connected to said base and the other pivoted thereto and pivotally connected to said pawl.

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1,694,923. TYPEWRITING MACHINE. ALFRED G. F. KUBOWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed May 4, 1927. Serial No. 188,643. 4 Claims. (Cl. 197—185.)



1. In a type-cleaning attachment for a typewriting machine, having a type-guide, a bracket having side elements

engaging against the sides of said type-guide, extensions on said side elements formed into clamps, a type-cleaning brush having grooves to receive said clamps for mounting the brush on the bracket, and means including a spring-pressed detent engaging behind said type-guide for fastening said bracket on said type-guide.

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1,694,924. BONDED REFRACTORY. RUSSELL EDMUND LOWE, New York, N. Y., assignor to Doherty Research Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 28, 1925. Serial No. 26,532. 32 Claims. (Cl. 106-9.)

1. An article of manufacture comprising a graded refractory aggregate bonded by less than one percent of a highly adherent bond formed by the chemical precipitation of a hydrate in intimate adhering contact with the particles of the aggregate, and substantially free from other substances formed at the time of precipitating said material.

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1,694,925. DISPENSING DEVICE. FRED S. MORRISON, Newark, N. J. Filed Oct. 8, 1926. Serial No. 140,223. 1 Claim. (Cl. 221—13.)

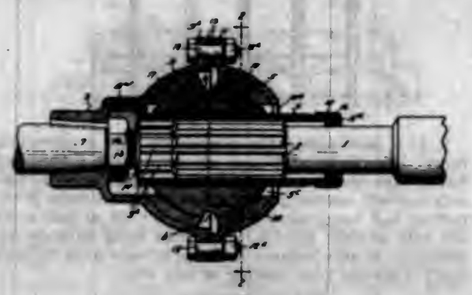


A dispensing apparatus comprising a receptacle, a nozzle with a tapered outlet on the bottom of the receptacle, the edge of the outlet being cut away at separated points, and a freely movable ball resting by gravity in the outlet and bearing on the nozzle above the cut-away portions of the nozzle, to seal the said outlet, said ball when raised opening the outlet and co-operating with the cut-away portions to feed a ribbon of material when the ball is rotated.

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1,694,926. UNIVERSAL COUPLING. FREDERICK W. PETERS, Cleveland, Ohio, assignor of one-half to Emil Gruenfeldt, Cleveland, Ohio. Filed Apr. 29, 1927. Serial No. 187,469. 13 Claims. (Cl. 64—96.)

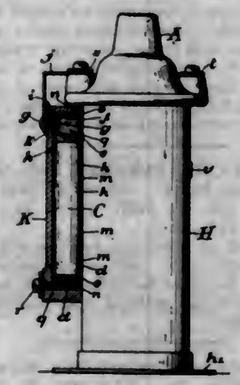
1. The combination, with a driving and a driven member, of a body of deformable resilient material surrounding an end of one of said members, the said body having a spherical outer surface and a groove extending therearound, and a cup carried by the other of said members, the said cup comprising two sections adapted to receive the outer surface of the said body therewithin, and means



for drawing the said cup sections toward each other thereby to increase the frictional engagement between the same and the outer surface of said body.

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1,694,927. CONDENSER STRUCTURE. HORACE E. RICE and ROBERT C. DA COSTA, Philadelphia, Pa.; said Da Costa assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania; Kathleen F. Rice administratrix of said Horace E. Rice, deceased. Filed Mar. 16, 1921. Serial No. 452,888. 12 Claims. (Cl. 175—41.)

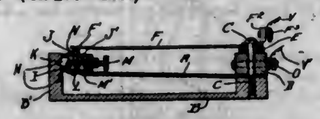


1. The method of producing a condenser unit, which consists in placing a condenser within a housing, closing the housing with a closure member, transmitting pressure through said closure member to said condenser to compress the same, securing the closure member to the housing while said condenser is held compressed by said closure member, and thereafter removing air from said housing and introducing molten insulating material.

12. A condenser unit comprising a conducting housing, a terminal connector electrically connected to said housing, a rolled condenser therein, conducting terminals extending beyond the opposite ends of said condenser, a closure member secured to said housing and in close engagement with said condenser thereby effecting electrical connection between one of said terminals and said housing, an insulating strip located between the opposite end of said condenser and the conducting housing thereby insulating the corresponding terminal from the housing, a terminal connector insulated from the housing and connected with said terminal, and an integral mass of insulating material extending into said condenser and filling the space around said condenser within said housing.



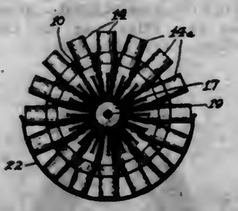
1,694,928. THERMOSTAT. HERBERT E. RIDER, Lynbrook, N. Y., assignor to Beaver Machine & Tool Co. Inc., Newark, N. J. Filed June 11, 1925. Serial No. 36,296. 9 Claims. (Cl. 200—139.)



1. A thermostat control device comprising a base portion, a thermostat element connected rigidly to said base portion at one end and extending across the same, and means comprising a wall having an abutment located adjacent the movable end of said thermostat element adapted to contact therewith and retard the movement thereof until the thermostat element has flexed a predetermined degree due to heating thereof at which time it is suddenly released and moves quickly from its normal position to a predetermined position of rest, an electrical contact point carried by the thermostat element, a spring arm rigidly connected to one end of said base portion the free end of which has a contact point adapted to contact the point carried by the thermostat element to close an electric circuit when in contact therewith.

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1,694,929. CARRIER FOR BOTTLE COOLERS. JOHN M. SCHILLING and WILLARD G. SCHILLING, Lima, Ohio. Filed Nov. 7, 1927. Serial No. 231,530. 14 Claims. (Cl. 312—36.)



1. In a bottle carrier of the class described, the combination of two similar disks of sheet metal having outwardly distended portions radially disposed and converging towards the axis of said disks, said disks being held together in reversed relation with said distended portions in alignment with each other to form bottle compartments, a central bearing member, and devices supported by said member and secured to said disks to support them.

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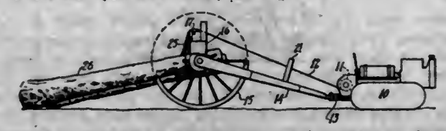
1,694,930. DISPENSING DEVICE FOR SAFETY MATCHES. REIDAR G. SEEL, Chicago, Ill. Filed Sept. 7, 1926. Serial No. 133,740. 2 Claims. (Cl. 312—42.)



1. A match dispensing device comprising two strips of pressed or stamped sheet material, one of said strips being substantially flat or plane, the other said strip being generally U-shaped in cross section, tongues formed on the edge of the said U-shaped strip adapted to be received by slots in the plane strip whereby the said strips are secured together to form a channel therebetween, the face of said U-shaped strip being cut away adjacent to the lower end thereof for a distance substantially equal to the width of a match box, a portion of said cut away portion being turned inwardly to form a bottom for the channel, and an upwardly directed resilient tongue pressed from the face of said U-shaped member above the cut away portion adapted to be received by the shell or casing of a match box, whereby the said box may be secured to the face of said U-shaped member.

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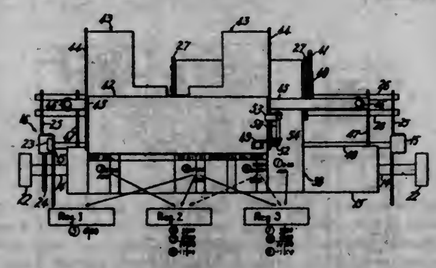
1,694,931. METHOD OF AND APPARATUS FOR TRANSPORTING LOGS. GAIL E. SPAIN, Portland, Oreg., assignor to Willamette Iron and Steel Works, Portland, Oreg. Filed May 4, 1927. Serial No. 188,792. 1 Claim. (Cl. 212—142.)



A log transporting vehicle consisting of a pair of high wheels; a high arched frame joining said wheels; a fairlead on said high arched frame consisting of a rearward horizontal roller and a pair of spaced vertical rollers in front of said horizontal roller; a bridle for hingedly connecting said vehicle to a tractor and for rigidly supporting said frame, said bridle having a guard placed over the forward end thereof; and a cable winding drum having a line passing under said guard between said vertical rolls and over said horizontal rolls, said line having a plurality of hooks at the end thereof for the attachment of separate choker members.

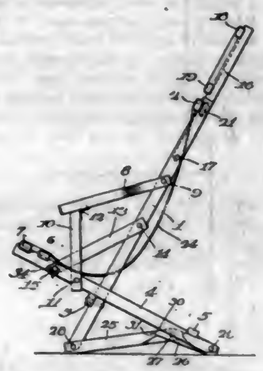
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1,694,932. COMBINED TYPEWRITING AND COMPUTING MACHINE. HARRY H. VICKERS, Corona, N. Y., assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Sept. 8, 1923, Serial No. 661,540. Divided and this application filed Mar. 29, 1926. Serial No. 98,130. 4 Claims. (Cl. 235—60.)



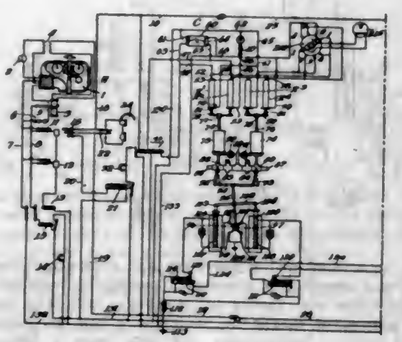
1. In a combined typewriting and computing machine having a platen and a series of computing registers, the combination with means for guiding a tally-strip around the platen, of means for collating a bill or statement sheet upon a ledger-sheet and both upon a tally-strip with a computing zone of the tally-strip exposed at one side of the bill and ledger sheets, for receiving the type-impressions of the old balances, said collating means including a bill and ledger-sheet collating table mounted at the delivery side of the platen over the tally-strip and offset relatively to the tally-strip-guiding mechanism to permit the typing of each line of items at the combined typing and computing operation without having the old-balance items appear twice upon the bill and ledger sheets.

1,694,933. FOLDING ROCKING-CHAIR. LEWIS P. WALKER, Hartford, and LEO O. BERGMANN, Coloma, Mich. Filed Nov. 30, 1925. Serial No. 72,211. 5 Claims. (Cl. 155—56.)



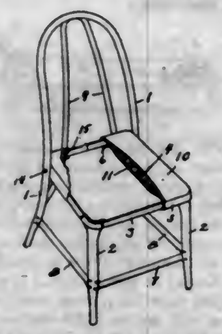
1. In a folding rocking chair, the combination of means forming a seat and back and front and rear legs, and means forming two stationary supports on the floor upon which the front and rear legs are pivoted, each support comprising two laterally overlapping sections forming a toggle joint between them, said joint having a pivot extending through the overlap, these supports each having its front end pivoted to a front leg and its rear end pivoted to a rear leg, with a stop between each front support and the front end of the rear support, serving to limit the downward movement of the toggle joints and hold them in raised position a distance above the floor, the chair back being rigid with the front legs, and the rear legs being rigid with the front edge portion of the seat.

1,694,934. TELEPHONE SYSTEM. GARRISON BABCOCK, Seattle, Wash., assignor to American Telechronometer Company, Seattle, Wash., a Corporation of Washington. Filed Mar. 6, 1926. Serial No. 92,768. 16 Claims. (Cl. 179—11.)



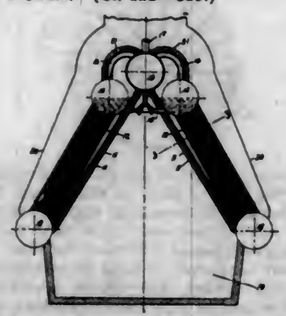
1. In combination, a calling line having a telephone set, a called line having a telephone set, a connecting circuit for interconnecting the lines for telephonic communication, means for reversing the polarity of current over said lines, a single registering device operated by reversals of current for registering the talking intervals over the talking line, and means for increasing said intervals during the idle parts of the day.

1,694,935. CHAIR. JULIUS L. CABLE, Boston, Mass. Filed July 11, 1925. Serial No. 42,937. 5 Claims. (Cl. 155—184.)



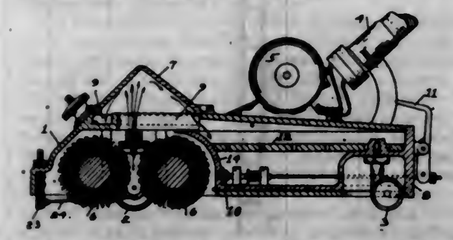
1. In a chair, a seat comprising a sheet metal plate having a depending edge flange extending about the same, a seat covering extending over the upper surface thereof and about said flange onto its inner side, a metal clamping strip arranged beneath said plate and having means to clamp the same against the inner side of said flange, to clamp said covering between said flange and strip, and supporting legs having means for securing the same to said clamping strip

1,694,936. LIQUID VAPORIZER. HARRY G. DONALD, Philadelphia, Pa. Filed Aug. 19, 1925. Serial No. 51,122. 1 Claim. (Cl. 122—325.)



In a water tube boiler, a mud drum, a set of tubes exposed to heat of radiation and extending from said drum, a vapor collector for said tubes, a second set of tubes exposed to heat of convection and also extending from the drum, a vapor collector for said second set of tubes, the first collector being above the water level of the second collector, and a common vapor take-off for the collectors.

1,694,937. FLOOR-SCRUBBING MACHINE. FREDERICK S. FLORER, Saginaw, Mich. Filed Feb. 14, 1925. Serial No. 9,134. 3 Claims. (Cl. 15—50.)

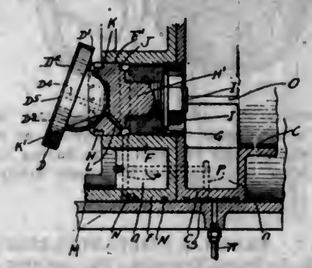


3. In a floor scrubbing machine including a casing, cylindrical scrubbing brushes, means for revolving them,



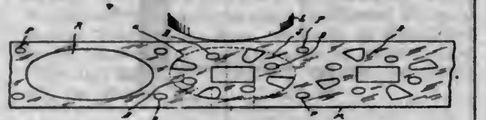
side wheels vertically adjustable on the casing, a removable drawer for said casing, said drawer carrying a castor, a transverse wiper hinged to the front of said casing, an annular ring in frictional engagement with one of said wheels, and a link connecting the hinged wiper to said ring.

1,694,938. APPARATUS FOR POWER TRANSMISSION. LEONARD B. HARRIS, New York, N. Y. Filed June 26, 1926. Serial No. 118,749. 7 Claims. (Cl. 74—14.)



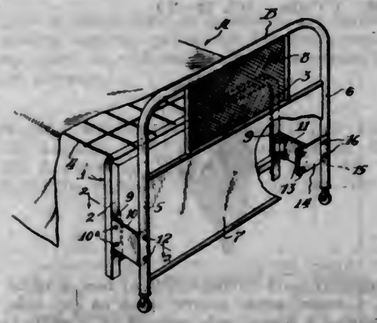
1. A power transmission device comprising a shaft; a wobble-plate carried thereby; a freely rotatable slipper bearing against the wobble-plate, and means for conducting a lubricant thru said slipper to said wobble plate.

1,694,939. PROCESS OF ASSEMBLING FILTER-STACK UNITS. VICTOR R. HEFTLER, Detroit, Mich. Filed Dec. 30, 1927. Serial No. 243,602. 10 Claims. (Cl. 164—17.)



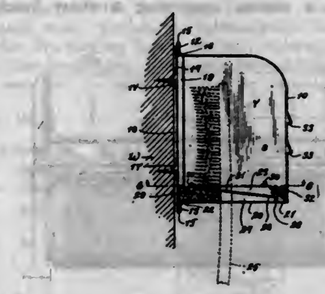
1. The process of assembling the alternated laminary elements of a filtering stack, which consists in first partially stamping out the diverse members in alternating relation from a ribbon, and thereafter successively subjecting each partially cut portion of the ribbon to the action of a cutting die positioned in coaxial relation over a receiving element.

1,694,940. BED. GENE HERZ, Chicago, Ill., assignor to Hers Bed Company, Chicago, Ill., a Corporation of Illinois. Filed June 16, 1926. Serial No. 116,890. 9 Claims. (Cl. 5—53.)



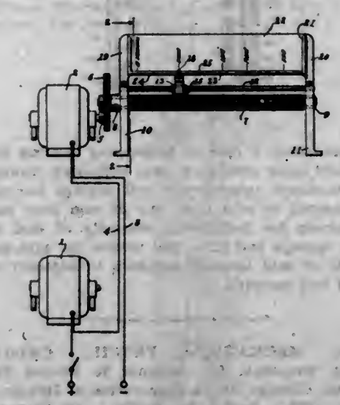
1. In a bed having a bed section and detachable bed ends, longitudinally projecting brackets secured to said bed section at each end thereof, and a laterally projecting bracket detachably secured to one of said first named brackets and to the respective bed ends, said last named bracket having slotted openings therein for adjustably securing the same to said bed ends.

1,694,941. TOOTHBRUSH HOLDER. GEORGE E. C. HILL, Niagara Falls, N. Y. Filed Dec. 20, 1926. Serial No. 155,994. 7 Claims. (Cl. 248—63.)



1. A tooth brush holder comprising an open sided body portion, a supporting member for said body portion, a floor portion removably confined in said body portion and retained therein by said supporting member, said floor portion being slidable through the open side of said body portion, and means carried by said floor portion for removably supporting the bristled end of a tooth brush within said body portion.

1,694,942. INDICATOR FOR MOTION-PICTURE-PROJECTION APPARATUS. MICHAEL HOFFMAN, Brooklyn, N. Y. Filed Mar. 30, 1927. Serial No. 179,522. 8 Claims. (Cl. 88—16.2.)

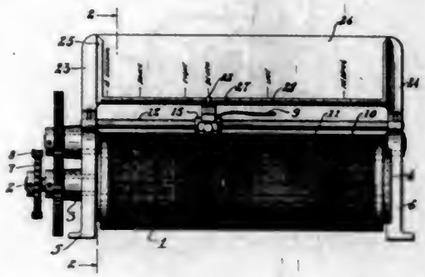


1. In apparatus of the class described, in combination, means for visually indicating features of a film being moved past the lens of a projecting apparatus, comprising a chart having characters indicative of illustrative or descriptive features of the film being screened, and an indicator for operating with said chart, means for synchronously operating said indicating means with projecting apparatus so that said indicating means will give a visual indication of the part of the film being screened and means for independently adjusting the indicating means, with respect to the features of the film being screened.

1,694,943. INDICATOR FOR MOTION-PICTURE PROJECTION APPARATUS. MICHAEL HOFFMAN, Brooklyn, N. Y. Filed Mar. 30, 1927. Serial No. 179,528. 5 Claims. (Cl. 88—16.2.)

1. In apparatus of the class described, in combination, sound reproducing apparatus operated synchronously with

apparatus adapted to project motion pictures upon a screen, means associated with said sound reproducing apparatus and synchronously operated thereby adapted to give a visual indication of the pictorial features being projected upon a screen, comprising a chart bearing



indicia of the features of said motion pictures and an indicator cooperating with said chart, and means for simultaneously adjusting the indicating means and said sound reproducing apparatus with respect to the pictorial features of screened production.

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1,694,944. EXPANSION BELT. CARL HORIX, Chicago, Ill. Filed July 10, 1926. Serial No. 121,631. 1 Claim. (Cl. 267—73.)



In combination, a pair of telescoping housing members having their inner ends open, pins extending through said housing members respectively, coil springs having their ends connected to said pins, one of said pins having a sleeve thereon for facilitating assembly of said housing members, springs and pins, and means for attaching the outer ends of said housing members to adjacent ends of connected belt sections.

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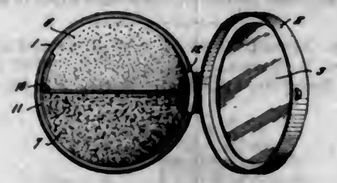
1,694,945. MECHANICAL PENCIL. CHARLES R. KEERAN, Evanston, Ill., assignor to Keeran Products Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 3, 1925. Serial No. 60,230. 16 Claims. (Cl. 120—18.)



6. A pencil, comprising in combination a tubular body, a removable tip and a spiral attached to said tip, a pair of division plates, frictionally held within the said body and jointly providing a coaxial tube and a communicating undercut guideway, and a plunger having a head slidably mounted in said guideway.

9. In a pencil, the combination of a metallic body portion, a tip removably mounted on the lower end thereof, lead advancing means adapted to be actuated by the rotation of said tip and a decorative shell surrounding said body, the lower extremity of said shell constituting a shoulder or abutment for the upper end of the tip.

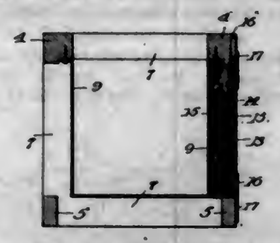
1,694,946. VANITY CASE ADAPTED TO SEPARATE COMPACTS OF CONTRASTING SHADES. LESSING L. KOLB, Milwaukee, Wis. Filed Jan. 15, 1927. Serial No. 161,441. 3 Claims. (Cl. 132—38.)



1. In a vanity case of the class described, the combination of a base plate, cakes of powder or rouge of contrasting shades, and the said plate having apertures adapted to cause the compacts to adhere firmly to the plate.

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1,694,947. THERMAL INSULATING STRUCTURE. HARVEY B. LINDSAY, Evanston, Ill., assignor to Dry Zero Corporation Wilmington, Del., a Corporation of Delaware. Filed Dec. 6, 1926. Serial No. 152,842. 8 Claims. (Cl. 20—4.)



1. As an article of manufacture, an insulating unit comprising a body of insulating material and sheet material relatively impervious to the passage of air therethrough extending across a face of said body and extending laterally throughout said body beyond the marginal edges of the latter to present flange portions extending entirely around said marginal edges, the inner face of said sheet throughout the area thereof opposing said body of insulating material being coated with an adhesive adhered to said body.

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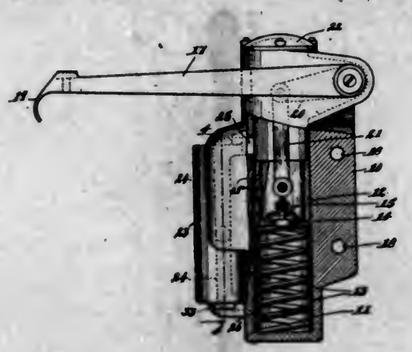
1,694,948. ARTIFICIAL TOOTH. SIMON MYERSON, Cambridge, Mass. Filed Mar. 5, 1925. Serial No. 13,108. 1 Claim. (Cl. 32—9.)



An artificial tooth having a lingual face, a labial face, a base, a recess whose mouth opens on the base, said recess having a lingual side inclined as a whole inward from the base toward the lingual face of the tooth, and a labial wall that extends continuously from the inner end of said lingual wall to the base of the tooth adjacent the labial face of the tooth, so that said lingual side of the recess is undercut to engage a plate material, and a pin projecting from the labial wall of the recess and having its outer end within the recess.



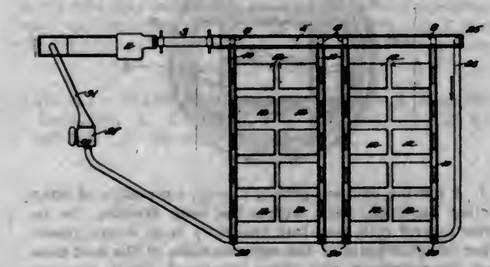
1,694,949. SHOCK ABSORBER. WILLIAM J. PAVEK, Cicero, Ill. Filed Dec. 20, 1926. Serial No. 155,791. 17 Claims. (Cl. 267—8.)



1. In a shock absorber having a casing containing liquid, a piston in the casing adapted to displace the liquid and means to allow movement of the liquid when so displaced; an inertia operated valve associated with said means whereby upward movement of the casing will cause said valve to retard the return movement of the displaced oil and rollers on the valve to insure ease of movement.

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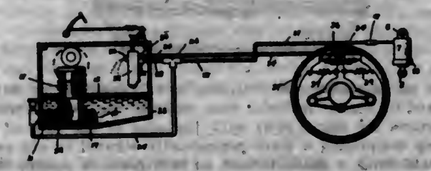
1,694,950. COTTON-WORKING APPARATUS. LOREN W. PENNEY, Newton Highlands, and HERBERT E. CHILD, Newton Upper Falls, Mass., assignors to Saco-Lowell Shops, Boston, Mass., a Corporation of Massachusetts. Filed July 26, 1924. Serial No. 728,496. 16 Claims. (Cl. 19—78.)



1. In a cotton working apparatus, the combination of a carding machine, and means for continuously feeding loose cotton to said machine under a substantially constant pressure.

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1,694,951. MEANS FOR MAINTAINING PRESSURE ON LIQUID FOR USE IN VEHICLE BRAKING. JOY S. REYNOLDS, Detroit, Mich. Filed Feb. 16, 1926. Serial No. 88,514. 6 Claims. (Cl. 188—152.)



3. An automatic means for maintaining pressure on liquid operated brake systems for vehicles comprising a cylinder interposed between the frame of said vehicle and resilient support therefor, a piston reciprocable in said cylinder and secured to one of said members, a pipe connecting said cylinder with a brake operating mechanism, a reservoir interposed in said pipe line, control valve means associated with said pipe line for, selectively, applying said brake mechanism hydraulically from said cylinder for discharging liquid to said reservoir to release said brake mechanism, and means for returning liquid from said reservoir to said cylinder for repeated operation.

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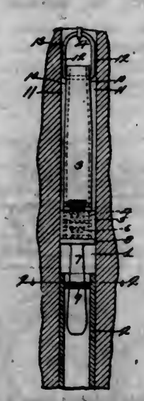
1,694,952. EAR PLUG FOR BATHERS. LOUIS SANTI, Marseille, France. Filed Mar. 1, 1928, Serial No. 258,351, and in France Mar. 2, 1927. 1 Claim. (Cl. 128—151.)



Ear plug for bathers comprising a trumpet member closed at one end, a small collar formed at the other end of said trumpet, a cylindro-conical casing of resilient runner surrounding said trumpet member, said casing being open at both ends, the smaller end being provided with a small flange, the spaces formed between the trumpet member and the outer casing serving as resonance chambers whose vibrations convey the external sounds to the ear nerve.

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1,694,953. PIPE-PULLING DEVICE. SAMUEL K. SMOOT, Flomot, Tex., assignor of one-half to W. F. Allen and Harmon Mosely, Flomot, Tex. Filed July 6, 1927. Serial No. 203,711. 2 Claims. (Cl. 294—86.)



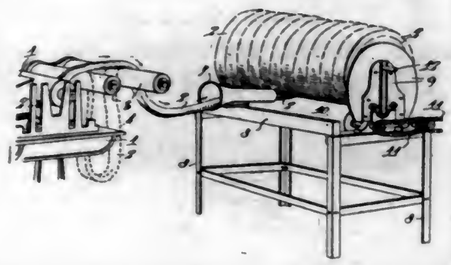
1. A pipe pulling device comprising a body member, a tapered extension carried by said body member and a contractible linked member surrounding the tapered member and having an interior diameter less than the extreme diameter of the tapered member.

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1,694,954. METHOD OF PREPARING COTTON BATTING FOR SHIPMENT AND USE. MAURICE J. STACK, Cohoes, N. Y., assignor to Brintnall Manufacturing Company, Inc. of Delaware, Wilmington, Del., a Corporation of Delaware. Filed Oct. 7, 1926, Serial No. 140,188, and in Canada Mar. 27, 1925. 7 Claims. (Cl. 100—1.)

1. The method of preparing cotton for shipment and use, which consists in taking a sheet of cotton, folding the same lengthwise over upon itself loosely to constitute a

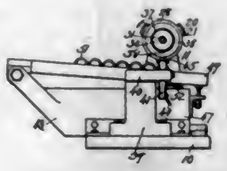
relatively narrow continuous bat of approximately elliptical cross section, winding the bat flatwise loosely on a core in superposed layers as a round bale, compressing the bale, while maintaining the core in place, into a square bale



while holding the bale against spreading along the axis of the core, thereby flattening the entire bat within the bale into a form approximately rectangular in cross section and retaining the compressed bale in its compressed condition until ready for use.

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1,694,955. MARKING MACHINE. ANTON VAN VEEN, Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 9, 1922. Serial No. 605,803. 10 Claims. (Cl. 101—8.)



1. A marking machine including a movably mounted marking member, a table pivotally mounted to support articles to be marked for movement past said marking member, and a positioning member supported by said table to position the end article of a row of contiguously disposed articles in marking position relatively to said marking member, said member being operative to restrain movement of said row of articles with said end article in said marking position.

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1,694,956. FILTER PRESS. HARRY L. WALKER, Whiting, Ind., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Aug. 28, 1926. Serial No. 132,215. 12 Claims. (Cl. 210—195.)

1. The method of applying filter cloths to a filter member having an opening therethrough, which consists in forming corresponding openings in the filter cloths and a bib, securing the bib to one cloth about the opening therein, locating the bib and latter filter cloth on opposite sides of the filter member, and arranging the second filter cloth on



the filter member and bib, so that the bib has unsecured contact with the second filter cloth on a substantial surface around the opening therein.

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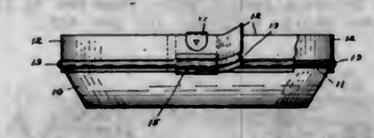
1,694,957. SERVING DISH. ESTA OMA WEIR, Chicago, Ill. Filed May 5, 1926. Serial No. 106,932. 2 Claims. (Cl. 65—15.)



1. A serving dish comprising a body, a plurality of intersecting partition walls within the body dividing the interior thereof into a central, relatively large compartment, other compartments at the opposite sides of the first mention compartment, and other relatively small compartments in the corners between the relatively adjacent ends of the second mentioned compartments, a container removably disposed in each of the several compartments, and a cover for the said body.

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1,694,958. EXTENSION SIDE FOR PANS. ONNOLEE MAORE WILSON, Wilton, Conn. Filed Jan. 20, 1928. Serial No. 248,186. 1 Claim. (Cl. 53—6.)



In an extension side for pans, and in combination with a band of flexible material such as paper and formed with a groove for engagement with the edge of the pan, of a clamp comprising a plate permanently secured to one end of said band, a guide formed on said plate to receive the free end of said band, a tongue formed on said plate and adapted to be folded over on said free end of said band, and a spur formed on said tongue and adapted to engage said free end of said band and lock the same in place.



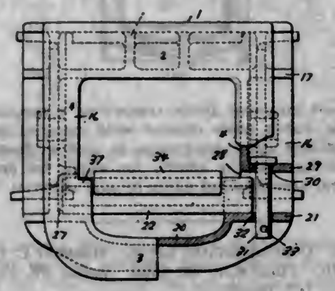
1,694,959. ATOMIZER. LUCY COTTON AMENT, New York, N. Y. Filed Sept. 15, 1927. Serial No. 219,758. 2 Claims. (Cl. 299—88.)



1. An atomizer comprising the human figure of a toe dancer standing upon the toes of one foot, the foot resting upon a hollow reservoir, said reservoir being in the form of a cushion, a vertical aspirator tube rising entirely within the leg upon which the figure stands and concealed thereby, a horizontal delivery tube concealed within the horizontal portion of the other leg which is bent, the delivery tube terminating at the knee of the bent leg and an aperture at this point through which spray from the delivery tube may escape into the air and means cooperating with the aspirator and delivery tubes to lift liquid from the reservoir and eject the same through the delivery tube.

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1,694,960. STRIKING CASTING. DONALD S. BARROWS, Rochester, N. Y. Filed Feb. 12, 1927. Serial No. 167,700. 11 Claims. (Cl. 213—60.)

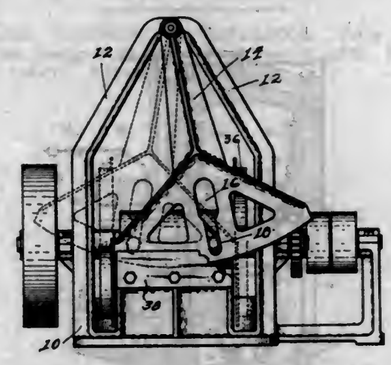


1. A combined casting comprising portions serving, respectively, as a striking casting and sill tie member, said sill tie member being bowed downwardly at its intermediate portion and adapted to support a carrier block on its end portions and a removable carrier block seated on the end portions of the sill tie member and spanning the downwardly bowed portion.

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1,694,961. MECHANICAL MOVEMENT. GEORGE T. BAGLEY, Louisville, Ky. Filed Sept. 22, 1926. Serial No. 136,984. 1 Claim. (Cl. 74—14.)

In a machine for converting swinging into rotary motion, a pendulum, means for supporting the same, a rotatable drum also mounted in said means, and a driving connection between the pendulum and said rotary drum, said connection including a friction reducing ball bearing, said ball bearing mounted conjointly in a slot in the pendulum and a groove in the drum and guiding means to support said ball.



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1,694,962. METAL TUBING. EDWARD R. BERRY, Malden, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 6, 1923. Serial No. 643,786. 4 Claims. (Cl. 204—8.)



1. The method of making metal tubing which consists in electro-depositing the desired metal on a silica support and removing said support at a sufficiently high temperature to cause separation of said members due to difference in thermal expansion.

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1,694,963. THEFTPROOF LAMP GLOBE. WILLIAM O. BODE and LAWRENCE J. HAMING, Louisville, Ky. Filed June 24, 1924. Serial No. 722,178. Renewed June 9, 1928. 3 Claims. (Cl. 176—31.)



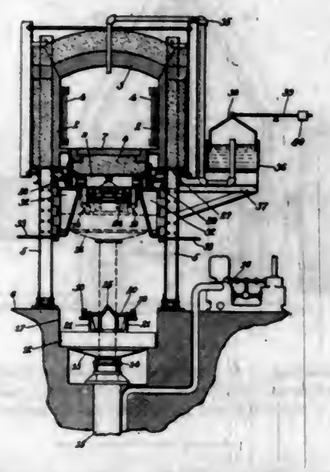
1. A theft proof lamp globe, including in combination an exhausted glass globe, a metallic base thereon, and means in the base for allowing of the projection of a portion of the globe therethrough, said projection being adapted to act to destroy the vacuum in the globe upon tampering therewith.

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1,694,964. HEAT-TREATING FURNACE. HARRY O. BREAKER, Buffalo, N. Y. Filed Feb. 27, 1924. Serial No. 695,451. Renewed June 14, 1927. 5 Claims. (Cl. 266—5.)

1. An apparatus of the character described, comprising, in combination, an electric furnace including fixed top and

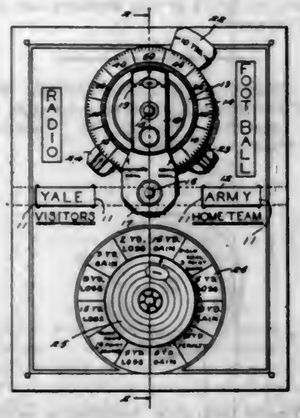
side walls and a removable bottom, an elevator for raising said bottom into its cooperative relationship to the other parts of the furnace and for lowering it out of said rela-



tionship, and means connected with said furnace for receiving gas displaced from the furnace and for subsequently returning said gas again to the furnace.

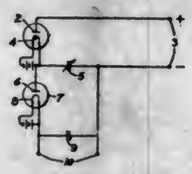
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1,694,965. COMBINATION GAME BOARD AND SCORE COUNTER. JOSEPH B. BUCKLEY, Detroit, Mich. Filed Feb. 20, 1928. Serial No. 255,788. 3 Claims. (Cl. 116—131.)




1. A combined game-board and score-keeper comprising a base, a dial fixed on the base having duplicate marks ranging therearound representing, in one instance yards of gain and loss of the players and in the other instance as points scored in the game by the players, an indicator adapted to be moved around the dial in accordance with the readings of a spinner or the like, and separate indicators for the players movable around the periphery of the dial in connection with said marks when used as game points.

1,694,966. ELECTRICAL SYSTEM. REGINALD C. CLINKER, Bilton, near Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed May 24, 1927, Serial No. 193,816, and in Great Britain July 13, 1926. 4 Claims. (Cl. 171—97.)



1. The combination of a plurality of electric valves, a low voltage circuit, a variable condenser connected to said low voltage circuit through one of said valves, and a high voltage circuit connected to said condenser through another of said valves.

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1,694,967. VACUUM DEVICE. WILLIAM D. COOLIDGE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 30, 1926. Serial No. 145,331. 6 Claims. (Cl. 215—13.)



1. A heat insulated device comprising a vacuum-walled receptacle, and a finely divided solid material contained in the vacuous space comprising in part at least a substance having a strong affinity for water, for preventing detrimental absorption of water by said material.

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1,694,968. COMBINATION LOCK. HERBERT C. COY, Chicago, Ill. Filed Mar. 29, 1926. Serial No. 98,057. 8 Claims. (Cl. 70—53.)



1. In a permutation lock, the combination of a plurality of circular discs, each having a segment removed therefrom, an operating pin for rotating one of said discs, means



on the discs for imparting motion from one to the other at certain portions of their movement, a dial mounted to rotate with the disc operating means, a pointer extending radially beyond the dial, a notched indicator in which said pointer rides, spring controlled means for maintaining said dial in desired position and producing audible sounds upon movement of the pin in the notches, a combined rear support and bearing for the operating pin, and a locking nut and washer fixed on the pin bolt, said rear support to maintain all the parts in co-operative relation.

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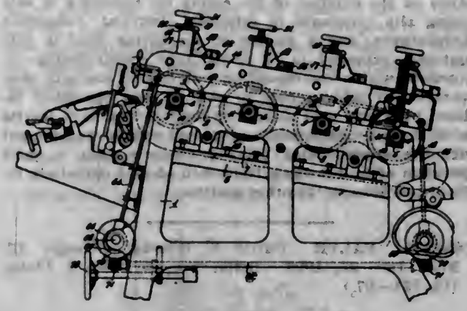
1,694,969. SHADE ROLLER. MILTON CURTIS, Beckley, W. Va. Filed July 26, 1927. Serial No. 208,494. 1 Claim. (Cl. 156—29.)



A shade roller comprising an elongated cylindrical body, said body being formed from elongated sections semicircular in vertical transverse cross section and adapted to receive therebetween a shade end, securing means extending transversely through said roller sections, pintles extending axially from the ends of the roller, the inner ends of said pintles being provided with heads disposed in registering recesses in the inner faces of the roller sections spaced from their ends.

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1,694,970. IRONING MACHINE. HOWARD C. CURTISS, Norwood, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 3, 1923. Serial No. 655,427. 27 Claims. (Cl. 68—9.)



1. In an ironing machine, a bed, a padded ironing roll, a supporting member, yielding means carried thereby for supporting the roll, whereby the roll and said supporting member are relatively adjustable, means on said supporting member for producing variable yielding pressure of the roll toward the bed, and means governed by the relative adjustment between the roll and said supporting member for indicating the amount of compression of the padding.

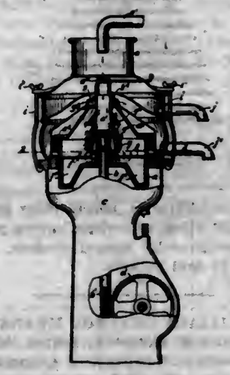
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1,694,971. TREATMENT OF SPENT CLAYS. ROBERT A. DUNHAM, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Oct. 30, 1926. Serial No. 145,879. 9 Claims. (Cl. 196—147.)

1. A method of de-oiling spent clay obtained from oil treating process comprising bringing the spent clay into intimate contact with an experimentally determined optimum quantity of water above or below which the separation of oil from the clay is diminished.

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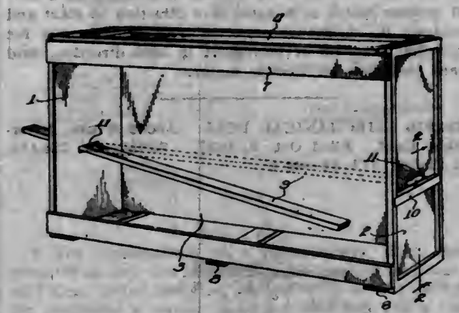
1,694,972. CENTRIFUGAL SEPARATOR. JOHN IVAN FRITZ, Geauga Lake, Ohio. Filed June 30, 1926. Serial No. 119,671. 7 Claims. (Cl. 233—2.)



1. A centrifugal separator equipped with a central supply feed beneath a perforated diaphragm substantially closing the lower portion of the bowl and a superposed axial deflecting member.

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1,694,973. PACKING CASE. CHARLES W. GERLACH, Chicago, Ill., assignor, by mesne assignments, to Chicago Mill and Lumber Corporation, Chicago, Ill., a Corporation of Delaware. Filed Aug. 11, 1927. Serial No. 212,229. 10 Claims. (Cl. 217—36.)



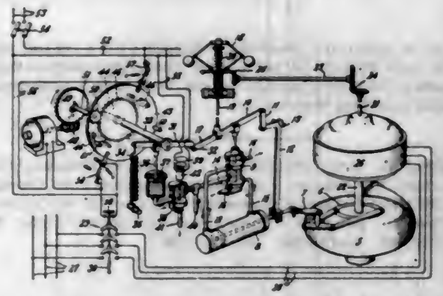
1. In combination in a packing case, a supporting rider extending across the interior of the case and projecting through the case, said rider being rigidly secured to the case entirely on the exterior thereof, whereby an article in said case will be supported in fixed position relatively thereto.

1,694,974. ARTIFICIAL CHRISTMAS TREE. CHARLES H. GLOVER, La Grange, Ill. Filed Aug. 26, 1926. Serial No. 131,558. 10 Claims. (Cl. 41—15.)



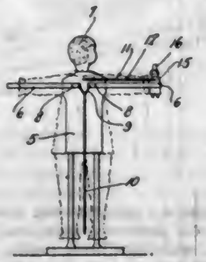
1. In a Christmas tree, a trunk, rings spaced longitudinally along said trunk, said rings having projecting portions defining peripherally spaced pockets, and branches removably fixed in said pockets.

1,694,975. AUXILIARY CONTROL MEANS FOR PRIME MOVERS. ALAN M. GOODWIN, Boston, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 29, 1926. Serial No. 151,369. 18 Claims. (Cl. 137—158.)



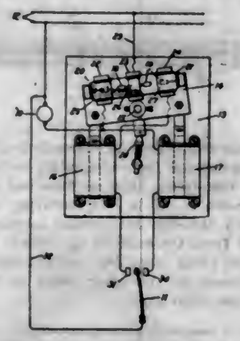
1. The combination with a prime mover having a control member which is movable in a direction to start and accelerate it, of means connected with said member for controlling its rate of movement in said direction, said means including an electric motor.

1,694,976. MECHANICAL DOLL. ADOLF GYGER, Riverside, Calif. Filed Oct. 5, 1927. Serial No. 224,116. 1 Claim. (Cl. 46—40.)



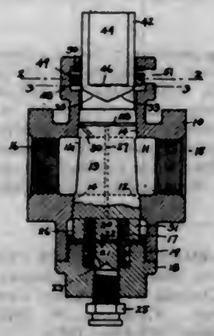
The combination of a doll having pivoted arms, a head and a trunnion pivotally connecting the head to the body of the doll, a smaller doll, a support including a trunnion for pivotally connecting the support to the large doll, said support pivotally connecting the smaller doll to the larger and disposing the smaller doll in the path of the arms of the larger doll, an offset portion on the trunnion of the support, an offset portion on the trunnion of the head, said offset portion being disposed in the path of the offset portion of the trunnion of the support and means connected to the arms whereby the arms and head operate in unison.

1,694,977. CIRCUIT-CONTROLLING DEVICE AND SYSTEM EMPLOYING THE SAME. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed June 5, 1925. Serial No. 35,265. 9 Claims. (Cl. 175—375.)



9 A time element electric circuit controlling device comprising a pivotally mounted member operable between oppositely inclined positions and having a plurality of spring clip terminals mounted thereon, a substantially cylindrical closed container having a plurality of pairs of contacts mounted in spaced alignment along the axis thereof and electrically connected with corresponding contact bands on the exterior of the casing for mounting in said spring clip terminals to establish electrical connection therebetween, and a globule of conducting fluid in said container arranged to be biased into circuit-closing engagement with a corresponding pair of said contacts upon operation of said member to each of said oppositely inclined positions, said globule of fluid having such inertia as to remain temporarily in circuit-closing engagement with the corresponding pair of contacts upon a quick operation of said member from each of said oppositely inclined positions to the other position.

1,694,978. VALVE. PHILIP S. HARPER, Chicago, Ill. Filed Dec. 27, 1926. Serial No. 157,084. 1 Claim. (Cl. 251—97.)



A valve casing with a fluid passage therethrough a rotatable closing plug member intercepting said passage, said plug member having a tapered bearing in said casing, means seating said plug in said bearing, said plug having surfaces inclined to its rotary axis, a plug head engaging said plug on said inclined surfaces, and a spring acting between said casing and said plug head, maintaining said plug head in engagement with said inclined surfaces on said plug member, and tending to rotate said plug head in a given registry with said plug member.

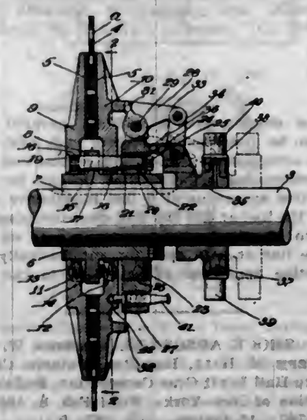


1,694,979. HIGH-VOLTAGE PRIMARY CUT-OUT. EDWARD G. NEWTON and ELMER J. WADE, Pittsfield, Mass., assignors to General Electric Company, a Corporation of New York. Filed Apr. 21, 1925. Serial No. 24,837. 7 Claims. (Cl. 200—127.)



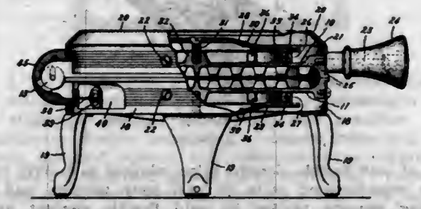
1. A primary cut-out comprising pivotally connected housing members of insulation, fuse terminal connections mounted on one of said members, fuse holding means mounted on the other of said members, means for isolating the space about one terminal connection from the space about the other when said members are in closed relation, and a tubular expulsion fuse adapted to engage said terminal connections and extend through said isolating means and a wall of the housing formed by said members.

1,694,980. CLUTCH. WILLIAM J. PEARMAIN, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 18, 1927. Serial No. 169,346. 4 Claims. (Cl. 192—68.)



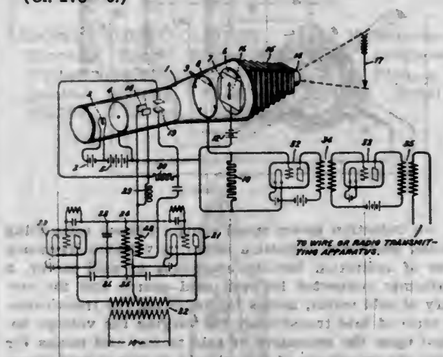
1. In a clutch, a hub adapted to be fixed upon a shaft and having an intermediate flange, a friction plate adapted to be fixed upon a rotary part, a pair of gripping members arranged respectively on opposite sides of the friction plate and both axially movable with respect to said hub but rotatable therewith, springs interposed between the respective gripping members and the flange on the hub, a fulcrum ring also movable axially of the shaft, levers on said fulcrum ring engaging one of said gripping members, a connection from said ring to the other of said gripping members and means for actuating said levers to force said gripping members against the plate.

1,694,981. ELECTRIC WAFFLE IRON. CHARLES P. RANDOLPH, Oak Park, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Aug. 23, 1926. Serial No. 130,810. 7 Claims. (Cl. 219—19.)



1. An electric waffle iron comprising two metallic cooking plates, hinge lugs secured to said plates, a pivotal connection between said lugs, a sheathed electric heating unit on the back of each of said cooking plates, a plate provided with radial ribs for clamping said heating units on said cooking plates, covers secured to said cooking plates fitting over said heating units in spaced relation therewith, and supporting means secured to one of said covers.

1,694,982. TRANSMISSION OF PICTURES AND VIEWS. CAMILLE A. SABBAH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 27, 1925. Serial No. 33,270. 4 Claims. (Cl. 178—6.)

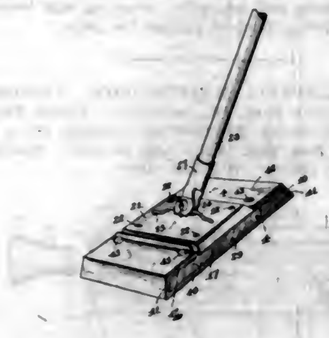



1. The combination of a photoelectric film, means mounted on one side of said film for forming an image on said film, means mounted on the other side of said film for projecting a cathode ray upon said film, and a transparent support for said film.

1,694,983. FLOOR POLISHER. HENRY V. SCHAEDEL, Buffalo, N. Y., assignor to Liquid Veneer Corporation, Buffalo, N. Y., a Corporation of New York. Filed Nov. 13, 1924. Serial No. 749,638. 7 Claims. (Cl. 15—209.)

1. A floor polisher, comprising a head having a body portion provided with male snap-fastener parts on its upper

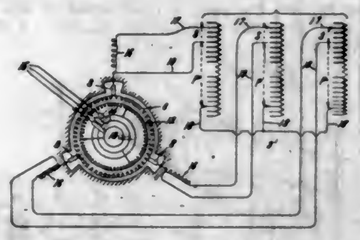
side near opposite ends thereof, a flexible element stretched over the under side of said body portion, around the ends thereof, and having its end portions lapped onto the upper side of said body portion and provided with double-ended female snap-fastener parts arranged at opposite sides of said flexible element, the ends at the inner



side of said flexible element being adapted to receive the male snap-fastener parts on said body portion, and a waxing element padded by said flexible element and stretched over the latter and provided with male snap-fastener parts at opposite ends adapted to be snapped into the outer ends of said double-ended snap fastener parts.

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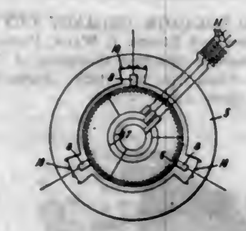
1,694,984. SPEED CONTROL OF INDUCTION MOTORS. HIDDE K. SCHRAGE, Paris, France, assignor to General Electric Company, a Corporation of New York. Filed Apr. 9, 1925. Serial No. 21,662, and in France June 20, 1924. Renewed Aug. 14, 1928. 8 Claims. (Cl. 172—274.)



1. An induction motor speed control system comprising a wound secondary induction motor, a variable frequency source of excitation for the secondary of said motor, a transformer connected between said source and the secondary of said motor, means for adjusting the transformation ratio of said transformer for varying the voltage impressed upon the secondary of said motor, and means for varying the impedance of the primary circuit of said transformer independently of said first mentioned adjustment.

2. An induction motor speed control system comprising an induction motor having a secondary winding, a rotor core member provided with a commutated winding for applying a regulating voltage to the secondary circuit of said motor, a stator core member provided with slots arranged to limit the flux in the commutating zone of said winding, and a transformer arranged to have its transformation ratio adjusted for controlling the magnitude of said regulating voltage and to have the number of its primary turns adjusted independently of said first mentioned adjustment for preventing change in the transformer flux due to variation in the frequency of the current transmitted therethrough.

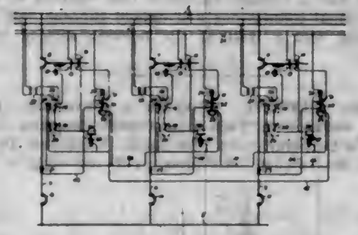
1,694,985. SPEED CONTROL OF INDUCTION MOTORS. HIDDE K. SCHRAGE, Paris, France, assignor to General Electric Company, a Corporation of New York. Original application filed Apr. 8, 1925, Serial No. 21,662, and in France June 20, 1924. Divided and this application filed Sept. 9, 1927. Serial No. 218,546. 2 Claims. (Cl. 172—274.)



1. An induction motor speed control system comprising a wound secondary induction motor, a commutator machine for supplying a regulating voltage to the secondary of said motor, said machine having a stator core member with slots opposite the commutating zones of said machine, and having commutating brushes in fixed relation with said stator member, said stator and brushes being adjustable for varying the phase of the excitation supplied to the secondary of said motor.

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1,694,986. PROTECTIVE ARRANGEMENT. NOBUO SENSUI, Kanagawaken, Japan, assignor to General Electric Company, a Corporation of New York. Filed Feb. 1, 1927, Serial No. 165,200, and in Japan Apr. 20, 1926. 10 Claims. (Cl. 175—294.)



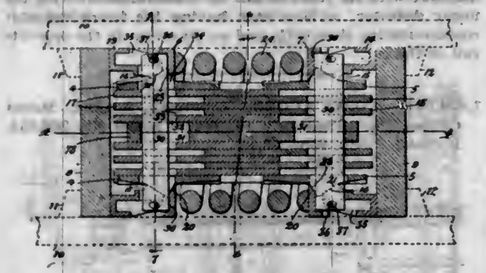
1. In an electric system wherein parallel lines are arranged to be disconnected at both ends and wherein a protective arrangement is provided at one end for selectively disconnecting a faulty line, means for rendering the protective apparatus of a line inoperative on disconnection of the line at one end and electroresponsive means arranged to be energized momentarily only on reconnection of the line at both ends for automatically restoring the protective apparatus of said line to the operative condition.

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1,694,987. SHOCK ABSORBER. CLIFTON W. SHERMAN and JOSEPH M. HALL, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y., a Corporation of New York. Filed Feb. 8, 1927. Serial No. 166,767. 15 Claims. (Cl. 267—9.)

1. A shock absorber comprising a plurality of intercalated friction plates which are adapted to slide lengthwise relatively to one another, and each plate being of curved form in cross section and engaging its convex and concave sides with corresponding concave and convex

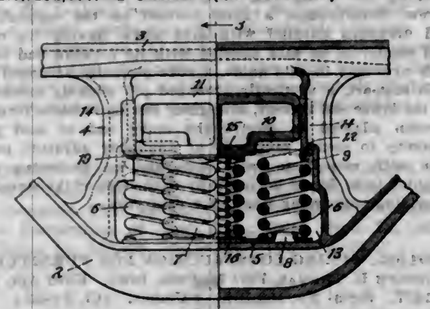




sides of adjacent plates, means for effecting relative longitudinal movement of said plates, means for pressing said plates laterally against each other, and a spring resistance.

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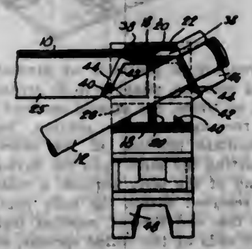
1,694,988. RAILWAY-CAR TRUCK. WILLIAM C. SLEEMAN, Birmingham, Ala. Filed May 27, 1927. Serial No. 194,677. 4 Claims. (Cl. 105—197.)



1. In a car truck, in combination, a side frame formed with a bolster opening, a bolster, a pair of springs normally out of contact with but adapted to coact with said bolster, said side frame having at least one column provided with an indentured portion bridged by a substantially horizontal abutment shoulder normally engaging said springs.

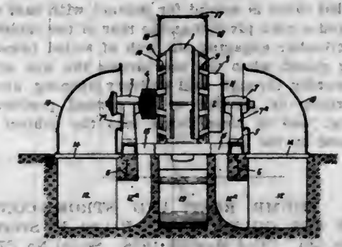
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1,694,989. REVERSIBLE BRAKE-SHOE HEAD. WILLIAM C. SLEEMAN, Birmingham, Ala. Filed Oct. 12, 1927. Serial No. 225,673. 7 Claims. (Cl. 188—226.)



1. In combination with a brake beam having compression member, tension member and strut, a reversible brake shoe head adapted to be secured to said compression and tension members at either end of the beam, said head having seats on the opposite sides of the center line to receive the end of the compression member and also having oppositely inclined apertured portions for engagement with the tension member of the brake beam.

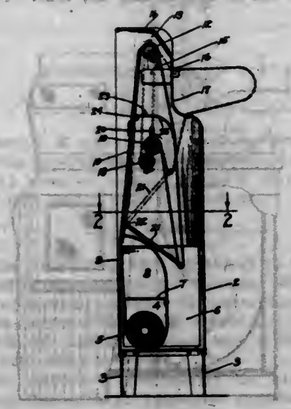
1,694,990. VENTILATION OF DYNAMO-ELECTRIC MACHINES. ERIK G. SOHLBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 22, 1927. Serial No. 177,414. 6 Claims. (Cl. 171—252.)



1. In combination, a dynamo-electric machine having a rotatable armature provided with a commutator and a stationary member surrounding said armature, said stationary member comprising a magnet frame and field poles attached thereto, said armature being adapted to project air therefrom during its rotation, and a casing in proximity to said armature extending over said magnet frame and beyond the outer periphery thereof and into which air is projected by said armature on both sides of said magnet frame without interference by said field poles, said casing having walls terminating in spaced relation to the ends of said magnet frame, the projection of air by said armature creating vacuum areas at the ends of the armature, the velocity head of said air projected by said armature being converted into a pressure head by said casing, and a second casing for supplying air to the vacuum areas at the ends of the armature, said first mentioned casing conveying the air which flows over the surfaces of the commutator and armature and over the surface of the stationary member away from said dynamo-electric machine, said casings being spaced apart so that ready access to said commutator may be had.

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1,694,991. TOWEL CABINET. FRANK M. STEINER and GOTTFRID OLSON, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah, a Corporation of Utah. Filed Aug. 2, 1926. Serial No. 126,597. 2 Claims. (Cl. 312—38.)



1. A towel cabinet having a portion adapted to receive a supply of clean towel, a feed roll in the upper

portion of the cabinet over which the web of clean towel is stretched, the front of the cabinet adjacent said feed roll having a delivery opening through which the user may reach and grasp the web of clean towel and draw it outwardly from the cabinet, a second feed roll mounted in said cabinet and having a driving connection with said first named roll, a take-up roll around which the web of soiled towel is wound for contact with said second feed roll, and a yoke pivoted at the rear of the cabinet and having a crossbar engaging the web of soiled towel, said yoke being raised when the user draws the web of clean towel outwardly through said delivery opening, and said yoke returning by gravity to its normal position and drawing the web of clean towel into the cabinet when it is released by the user.

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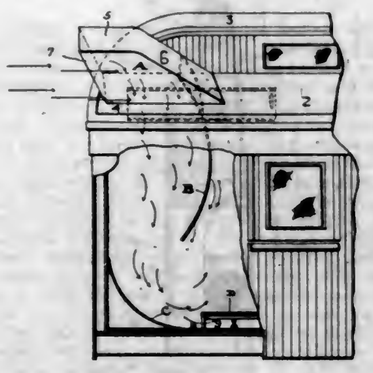
1,694,992. THUMB REST AND STROKE-CONTROL DEVICE FOR GOLF CLUBS. RALPH F. STOEFFLER, St. Louis, Mo. Filed May 10, 1928. Serial No. 276,701. 1 Claim. (Cl. 273—81.)



A thumb rest and stroke control device for golf clubs, comprising a concaved plate adapted to be secured to a golf club, an integral lateral projection on said plate, said projection having a concaved face and adapted for engagement by the thumb of a player, and the plate being provided with extensions in its edge having openings to receive securing members, one of said extensions being elongated and extending an appreciable distance beyond the concaved lateral projection aforesaid.

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1,694,993. VENTILATING AND DEFLECTING OF AIR THROUGH RAILWAY CARS. ARCHIBALD STURROCK, Winnipeg, Manitoba, Canada, assignor to The Canadian Pacific Railway Company. Filed June 14, 1926, Serial No. 115,843, and in Canada May 28, 1926. 4 Claims. (Cl. 98—6.)



1. In a railway car of the type described the combination with an intake ventilator; of a pair of deflectors of curved form and located one above the other, the upper deflector being disposed with its concave side communicating with the air intake, and the lower deflector being disposed with its concave side in communication with the upper deflector; a floor rack having the lower deflector communicating therewith, and an air outlet in the opposite end of the car.

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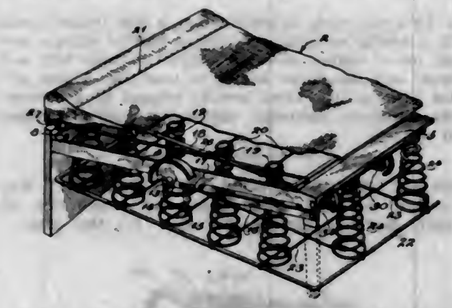
1,694,994. COAL AUGER. AGUILINO SUAREZ, Mount Carmel, Pa. Filed July 19, 1927. Serial No. 206,884. 1 Claim. (Cl. 255—46.)



In a drilling apparatus, a screw having a drilling tool carried at one end thereof with a gear formed at its opposite end, a reduction gearing operatively connected therewith, a housing for said gearing, crank pins extending from each of said gears permitting selective operation of the screw through either thereof, a support arranged at the forward end of the screw and having a threaded opening for permitting longitudinal movement of the screw therethrough, a guide formed on the support, a rod arranged parallel with said screw having its rear end supported by said housing with its forward end slidably arranged in said guide, a yoke pivotally arranged on said support, a vertically arranged pin slidably mounted at the lower end thereof, said guide having recesses formed therein adapted to receive the upper end of said pin whereby to secure said yoke at angularly adjusted position with respect to said screw and an anchoring pin adapted to be driven horizontally in the side of the working providing supporting means for said yoke.

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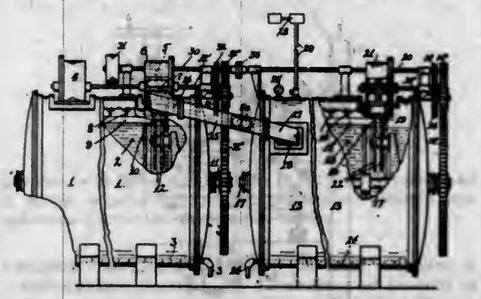
1,694,995. SPRING CONSTRUCTION FOR FURNITURE. JOSEPH R. THOMAS, Fort Madison, Iowa. Filed Apr. 14 1927. Serial No. 183,796. 4 Claims. (Cl. 5—25.)



1. In a davenport, a plurality of pivotally connected spring carrying sections, adapted to be arranged in superposed relation, at times, one of said sections comprising a substantially rectangular body portion, bearing means on the intermediate portions of the sides thereof for pivotally supporting the same upon the davenport, a panel fixed to one end of the body portion, a coiled spring engaging frame received within the body portion arranged flush with the free end thereof, another frame connected to the opposite ends of the coiled springs, certain of the coiled springs being connected to the free end of said body portion, a plurality of longitudinal rods pivoted to the panel and connected to portions of certain of the coiled springs, each of said rods having angular extensions on their free ends disposed in proximity to the free end of the body portion, auxiliary springs arranged between said extensions and said free end, and means engageable with said auxiliary springs for automatically compressing the same, upon pivotal movement of said sections.



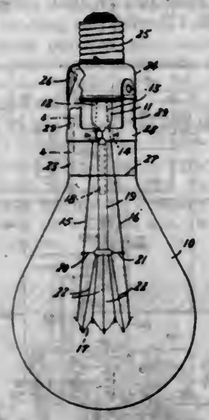
1,694,996. COMBINED COOKER AND COOLER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngroover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Jan. 10, 1921. Serial No. 436,065. 14 Claims. (Cl. 126—272.)



1. A combined cooker and cooler comprising a cooking member and a cooling member; a spiral canway in each member; a rotatable reel in each member for moving cans through the canway; means for independently establishing and maintaining in each member a pressure above atmospheric; means for feeding cans one at a time successively into the cooking member; means for moving said cans in a single continuous line successively through the spiral canways in the members; a conduit for passing containers from one member to the other without interchange of pressures; and means for successively discharging the cans one at a time from the cooling member.

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1,694,997. BASE FOR INCANDESCENT LAMPS OR SIMILAR ARTICLES. IRVING H. VAN HORN, East Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Sept. 20, 1926. Serial No. 136,405. 5 Claims. (Cl. 176—32.)



1. The combination of an electric incandescent lamp comprising a neck and a bowl portion and a base having the usual portion carrying the electrical terminals and engaging the end of said neck and a gripping extension comprising a split ring integral with said extension engaging an intermediate portion of said neck, and means for holding the adjacent ends of said ring together to cause said ring to grip said neck.

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1,694,998. TAG. CONSTANT WENDELL, Dedham, Mass. Filed June 6, 1928. Serial No. 283,230. 2 Claims. (Cl. 40—20.)

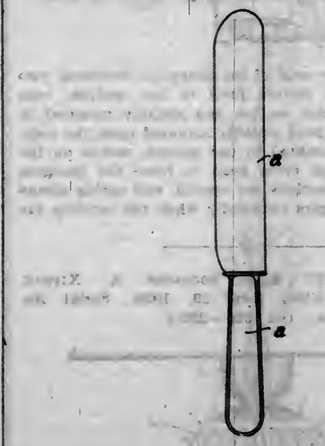
1. The combination of a tag; a staple formed of narrow ribbon metal having a back extending along a face of the tag to and slightly beyond an edge of the tag, a short prong entered through the tag and clenched against the tag, and a short prong extending over an edge of the tag and clenched against the tag adjacent said edge; and a string at the edge of the tag pinched by and positively



held between the portion of the back of the staple beyond the edge of the tag and the prong extending over said edge and clenched against the tag, said string and staple being of about the same width and said string having a short free end portion extending beyond the staple.

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1,694,999. KNIFE. RICHARD WITTLINGER, Goppingen, Germany. Filed Dec. 16, 1925, Serial No. 75,741, and in Germany Oct. 10, 1924. 1 Claim. (Cl. 30—9.)



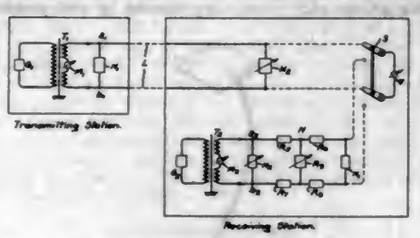
An article of manufacture having a cutting edge and made from an alloy of 47 parts copper, 37.5 parts of zinc, 10 to 12 parts of nickel, two parts of manganese, one part of iron, and .5 part of aluminum.

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1,695,000. METHOD AND APPARATUS FOR TESTING TELEPHONE CIRCUITS. WALTHER WOLFF, Copenick, Berlin, Germany, assignor to General Electric Company, a Corporation of New York. Filed Apr. 24, 1926, Serial No. 104,492, and in Germany May 2, 1925. 5 Claims. (Cl. 179—175.)

1. The method of determining the attenuation of a telephone line with an adjustable artificial network and suitable impedance elements, which consists in setting up a predetermined electrical condition across the input terminals of a telephone line, setting up the same electrical condition across the input terminals of the arti-

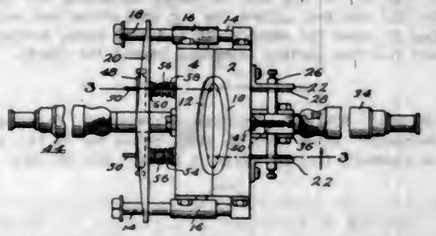
ficial network, terminating said telephone line and said artificial network by their respective characteristic impedances adjusting the attenuation of the artificial line to equal the attenuation of the telephone line, and ob-




serving at the output terminals of the telephone line and at the output terminals of the artificial network when the attenuation of the artificial line equals the attenuation of the telephone line.

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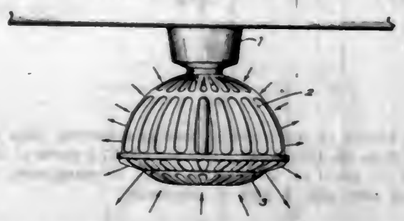
1,695,001. MOLD. CHARLES A. WOOD, Clay Center, Kans. Filed July 6, 1926. Serial No. 120,695. 2 Claims. (Cl. 22—151.)



1. In an invertible mold of the character described two chambered sections, sleeves fixed to one section, rods fixed to the companion section and slidably mounted in said sleeves, a cross head slidably mounted upon the rods, plungers operably mounted in one section, means on the rods for causing said cross head to force the plungers inwardly when the sections are opened, and spring means for forcing the plungers outwardly when the sections are closed.

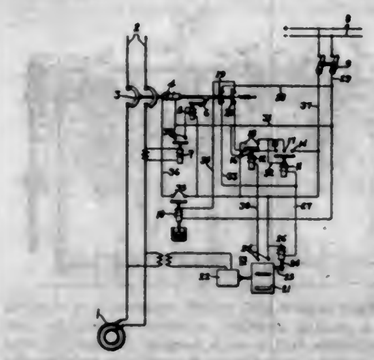
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1,695,002. ELECTRIC FAN. SOCRATES A. XIPPAS, Pittsburgh, Pa. Filed Nov. 29, 1926. Serial No. 151,427. 4 Claims. (Cl. 230—259.)



1. In a device of the class described, a rotary impeller and an enclosing casing therefor, said casing having a medial zone and two polar zones of openings therein, said impeller including means whereby the air is drawn into said casing through the openings in the polar zones, and forced toward the medial zone, said impeller means serving to discharge the air through the openings in the medial zone, and including a rotatably mounted support, a series of horizontal arms carried by said support, and a plurality of blades attached to said arms and all extending in a direction to one side of said horizontal arms, the impeller being unbladed at the opposite side of said horizontal arms.

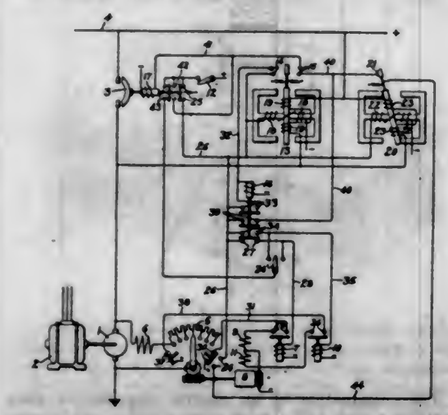
1,695,003. CONTROL OF ELECTRIC SWITCHES. ARVID E. ANDERSON, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 19, 1927. Serial No. 176,761. 8 Claims. (Cl. 175—294.)



1. In combination, an electric circuit, interrupting means therefor, means for effecting the closing of the interrupting means including a closing relay and means for controlling the closing relay including an auxiliary relay arranged when energized to close contacts in the circuit of its winding, and a control relay arranged when energized to effect the energization of the auxiliary relay only while the interrupting means is open and on subsequent deenergization while the auxiliary relay is energized to complete the circuit of the closing relay.

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1,695,004. AUTOMATIC CONTROL SYSTEM. HERMAN BANY, Scotia, N. Y., and HAROLD T. SEELEY, Yeadon, Pa., assignors to General Electric Company, a Corporation of New York. Filed July 22, 1927. Serial No. 207,788. 12 Claims. (Cl. 171—118.)

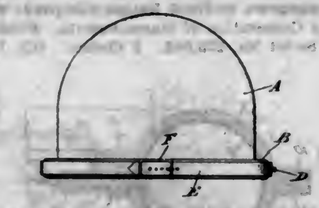


8. In combination, a source of current, a load circuit, switching means for connecting the source to the load circuit, and means operative to effect the closing of said switching means only when the voltage of said source is greater than but does not exceed the voltage of the load circuit more than a predetermined amount.

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1,695,005. BATHING CAP. OSCAR A. BIGLER, Wyoming, Ohio. Filed Dec. 21, 1926. Serial No. 156,189. 2 Claims. (Cl. 2—68.)

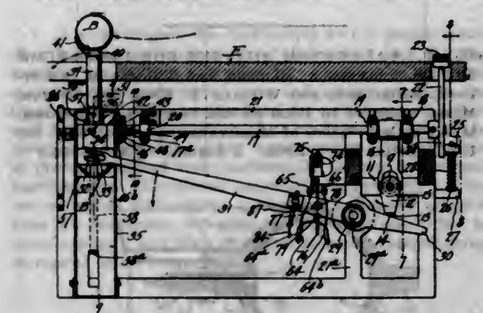
1. A bathing cap composed of a flexible water-proof head covering, a band therefor arranged entirely on the outside of said head covering portion so as to provide a non-obstructed inner surface to said head covering portion, said band consisting of a water-proof elastic portion



adapted to be inflated to conform to the wearer's head and a flexible water-proof inelastic portion surrounding said inflatable portion on three sides thereof.

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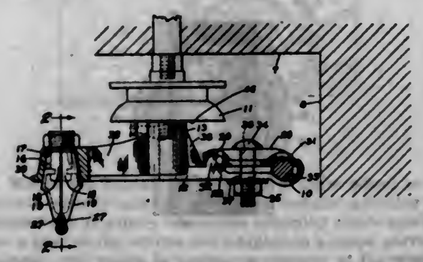
1,695,006. GOLF-BALL-TEEING DEVICE. GEORGE J. BROCKHAGEN, Brooklyn, N. Y., assignor of one-half to Eugene F. Brockhagen, Brooklyn, N. Y. Filed Mar. 8, 1928. Serial No. 260,162. 18 Claims. (Cl. 273—33.)



6. In an automatic golf tee, the combination with a vertical housing, of a golf tee reciprocable in said housing, means for latching said golf tee in its raised position, said golf tee being provided with means under the control of a golf ball driven therefrom for releasing said latching means, an electric motor for elevating said golf tee, and a starting and stopping switch therefor under the control of the rise and fall of said golf tee.

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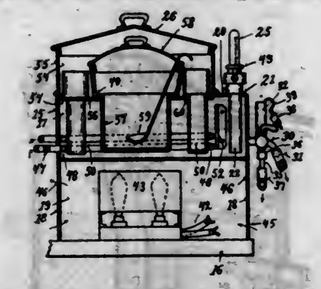
1,695,007. HANGER FOR ELECTRIC WIRES. CLARENCE A. CAWOOD, Big Stone Gap, Va., assignor to The Electric Railway Equipment Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 18, 1927. Serial No. 184,489. 12 Claims. (Cl. 197—43.)



1. In a device of the class described, the combination of a body member having a tapered bore at one end thereof and a central threaded bore for receiving a hanger stud, a feeder wire clamp at the opposite end of the body member, a pair of trolley clamp jaws associated with the tapered bore for clamping a trolley wire therebetween, and interchangeable jaw actuating means, one being adapted for suspending the body member from the hanger stud, and the other for actuating the jaws independently of the hanger stud.



1,695,008. STERILIZING AND INCUBATING APPARATUS. VALDEMAR CHRISTENSEN, Cincinnati, Ohio. Filed Mar. 2, 1926. Serial No. 91,778. 4 Claims. (Cl. 219—38.)



3. A bacteriological incubator comprising a container for a liquid bath having a lid giving access thereto, an electrical circuit, an electrical heating member included in said circuit and adapted to intermittently heat said bath, a thermostat partly immersed in said bath and serving to open and close said electrical circuit, means adjustable to pre-determine the temperature limits at which said thermostat will open and close said electrical circuit, a member controllable to cool said bath approximately to pre-determined temperatures lower than the room temperature, and an incubating vessel located in said container and partly immersed in said bath.

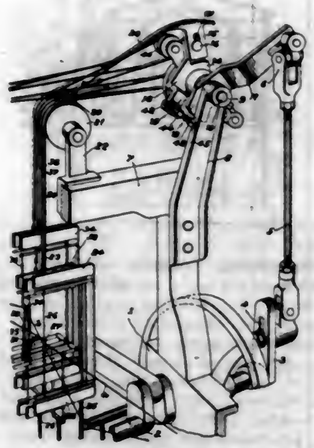
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1,695,009. TOOL AND HANDLE CONNECTION. JAMES P. COCHRAN, Canyon City, Oreg. Filed May 6, 1927. Serial No. 189,278. 1 Claim. (Cl. 306—7.)



In a tool and handle connection, a tool provided with a ball-shaped head formed with an angular socket, a handle, a pin projecting from one end of the handle, said pin having a pair of spaced circumferential grooves, a sleeve for slidable disposition on the pin and provided at one end with a socket shell in which the tool end is seated, a boss projecting laterally from an intermediate point on the sleeve and having a bore extending inwardly and communicating with the interior of the sleeve, a spring urged member within the said bore adapted for selective engagement within one of the said circumferential grooves of the pin, one end of said pin being of polygonal shape for engagement with the socket of said tool head, said sleeve being movable on the pin for disengaging the polygonal shaped end of the pin from the tool head socket and resulting in the engagement of the said spring urged member in the outermost groove of the pin to permit the ball-shaped head to pivot within the socket shell of the sleeve.

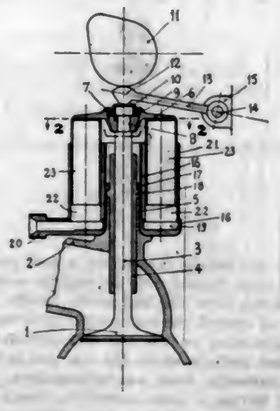
1,695,010. CROSS-WEAVING LOOM. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 4, 1928. Serial No. 267,245. 8 Claims. (Cl. 139—51.)



1. In a leno or cross-weaving loom, the combination of doup heddles and lifter heddles therefor, a jumper heddle, yielding means normally acting to depress the jumper heddle, a head motion for the jumper heddle, a flexible connection between the head motion and jumper heddle, and a stop for the jumper head motion acting to maintain the flexible connection taut when the jumper heddle is held raised by the crossed doup and jumper threads.

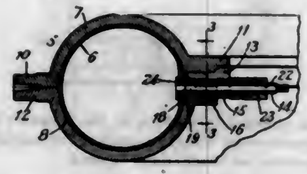
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1,695,011. VALVE GEAR. GUIDO FORNACA, Turin, Italy. Filed Dec. 22, 1927, Serial No. 241,922, and in Italy Dec. 31, 1926. 5 Claims. (Cl. 123—90.)



1. A valve gear comprising a valve, a guide for said valve, a part engaged with the end of the stem of said valve, a plurality of cylinders arranged around the axis of said valve, plungers each mounted to reciprocate in one of said cylinders, said cylinders and plungers being located intermediate said stem-end part and said guide, and means for supplying a pressure fluid to said cylinders to force said plungers against said stem-engaged part so as to hold said valve in closed position.

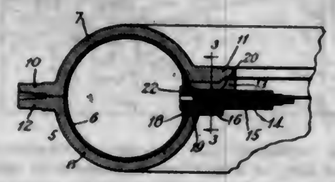
1,695,012. VALVE-STEM ADAPTER FOR INNER-TUBE MOLDS. ALFRED A. GLIDDEN and THOMAS M. KNOWLAND, Watertown, and WILLIAM T. RICH, Jr., Newton, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Sept. 30, 1927. Serial No. 223,082. 8 Claims. (Cl. 18—35.)



1. In combination a mold, a sleeve mounted therein and constructed and positioned to encircle the valve stem of an inner tube located within said mold, and means upon said valve stem to clamp the inner tube to the sleeve.

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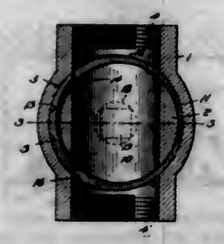
1,695,013. VALVE-STEM ADAPTER FOR INNER-TUBE MOLDS. ALFRED A. GLIDDEN and THOMAS M. KNOWLAND, Watertown, and WILLIAM T. RICH, Jr., Newton, Mass., assignors to Hood Rubber Company, Watertown, Mass., a Corporation of Massachusetts. Filed Sept. 30, 1927. Serial No. 223,083. 3 Claims. (Cl. 18—35.)



1. In combination a mold, and a sleeve rotatably mounted therein, said sleeve being constructed and arranged to encircle and to have screw-threaded engagement with the valve stem of an inner tube located within said mold to clamp said inner tube to the sleeve.

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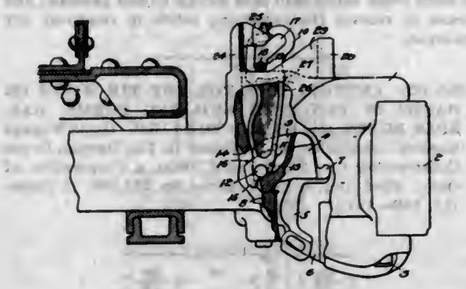
1,695,014. VALVE. ALFRED G. HEGGEM, Tulsa, Okla. Filed May 18, 1925. Serial No. 31,118. 10 Claims. (Cl. 251—91.)



1. A valve involving a body device having a passage permitting the flow of fluid therethrough and having a curved valve seat and a curved surface eccentrically disposed with respect to said seat and to said passage, and a valve member rotatably mounted in said body device and adapted to control the flow of fluid through said passage, said valve member being curved to conform to said seat and being adapted when rotated to closed position to cooperate with said eccentrically disposed curved surface of the body device so as to be pressed against said seat.



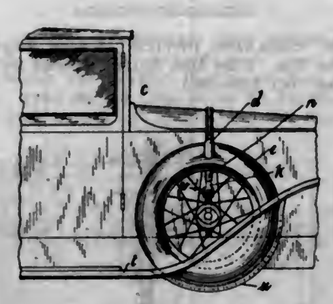
1,695,015. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed June 20, 1927. Serial No. 199,952. 5 Claims. (Cl. 213—127.)



1. In a car coupler, the combination with a coupler head, of a knuckle pivotally mounted thereon, a lock for the knuckle, a lock lifter extending into the coupler head and movably connected to the lock, and means engaging the lifter outside of the coupler head for actuating said lifter, said lifter being adapted under the influence of gravity to move to a position in which it cooperates with said head to prevent the lock from accidentally moving to unlocked position, and said means extending transversely of the car on which the coupler is mounted and being adapted upon an accidental unlocking movement of the lifter to cooperate with said head and lifter to arrest the unlocking movement of the lifter.

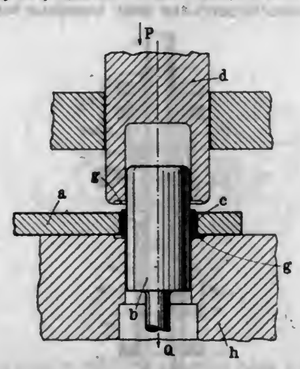
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1,695,016. MEANS FOR HOLDING AND LOCKING SPARE WHEELS AND THE LIKE ON MOTOR VEHICLES. MADS KRUSE, London, England. Filed Mar. 8, 1928, Serial No. 260,070, and in Great Britain Mar. 23, 1927. 11 Claims. (Cl. 224—29.)



1. Means for holding and locking a spare wheel or a wheel-rim or felly and tire on a motor vehicle including in combination a relatively immovable retaining device mounted on a part of the vehicle and adapted to receive, partially embrace and retain in position a segment of the wheel-rim and tire, a link pivotally mounted at one end on a part of the vehicle, a second retaining device extending from and beyond the free end of the said link, and adapted to receive, partially embrace and retain a second segment of the wheel rim and tire approximately opposite to the first mentioned segment of the wheel rim and tire, an extensible and contractible stay, pivoted at one end to a part of the vehicle and connected at its other end to the free end of the said link and means for rendering the said stay inextensible, substantially as set forth.

1,695,017. PRECISION BORE AND METHOD OF PRODUCING SAME. HEINRICH KUCKUCK, Bremen, Germany. Filed Nov. 26, 1927, Serial No. 235,999, and in Germany May 6, 1926. 7 Claims. (Cl. 29—149.5.)



1. A method of making precision or tolerance bores or seats of a determined size in a plate or housing, characterized by making an oversized bore in the plate or housing, placing an intermediate or lining ring within said bore, inserting a gauge mandrel through said ring and axially compressing the ring to the face of the bore while forming and sizing the ring by said mandrel.

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1,695,018. COMBINATION AIR NOZZLE AND GAUGE. AMOS S. MARCHUS, Oakland, Calif. Filed Oct. 1, 1924. Serial No. 740,954. 1 Claim. (Cl. 73—111.)



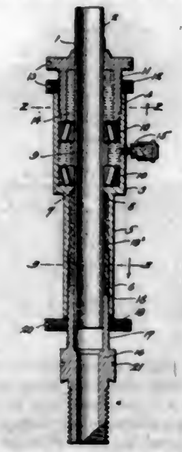
A device of the character described comprising a casing having an elongated bore with closed ends formed therein, said casing having a counterbore in one end in alignment with said bore, a tire valve fitting rotatably secured in said counterbore, an air connection adapted to be placed in communication with said counterbore, a graduated cylindrical plunger disposed in said elongated bore and having a closed end, a spring bearing against said plunger, a sight opening formed through the casing in alignment with said graduations on said plunger, said casing being formed with an air opening formed therein contiguous to one end of the bore between the end of the bore and the end of the plunger and adapted to be placed in communication with the air connection whereby air entering the bore will seek to move the plunger against the pressure of the spring and indicate the pressure at the sight opening by the calibrations on the plunger.

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1,695,019. WATER HEAD FOR DRILLING RIGS. DAVID WEAR MCELROY, Kaufman, Tex., assignor of one-half to Guy E. Boggs, Kaufman, Tex. Filed June 14, 1926. Serial No. 116,059. 1 Claim. (Cl. 285—96.)

A water head for attachment to and adapted to be supported by a core drill, said head including a stationary water barrel having an annular enlargement between its ends, a shell housing a portion of the barrel and having an enlarged end portion and a reduced end portion, a hollow nut fitted snugly about the barrel and threaded into the enlarged end portion of the shell, said nut being spaced for the greater portion of its length from the barrel, the nut and enlarged portion cooperating to provide a lubricant compartment, spaced annular series of tapered roller bearings interposed between the annular enlargement on the barrel and the nut and between the annular enlarge-

ment and the inner end of the enlarged portion of the shell, said bearings constituting means for taking up end and side thrust and for holding the barrel against longitudinal movement relative to the shell and in position at all times concentric with the shell, a packing between the



reduced portion of the shell and the barrel, and adjustable means engaging the reduced portion of the shell for compressing the packing about the barrel, said adjustable means constituting means for engaging a core drill to support the water head thereon.

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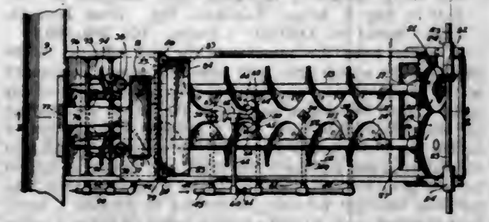
1,695,020. FROG FOR VIOLIN BOWS. HARRY OSTROVSKY, London, England. Filed Sept. 22, 1923, Serial No. 664,224, and in Great Britain Sept. 22, 1922. 4 Claims. (Cl. 84—282.)



1. In a bow for musical instruments, including a bow stick and bow hair, the latter having a knot in one end, a connection between the same capable of elastic movement when pressure is applied to said hair in playing, said connection comprising a frog having a body portion, means for securing said frog to said bow stick, a channel opening in the top of said body, said body being apertured to receive said knot in one end of said bow hair, means for securing said knot in said aperture, a spring member for facilitating said elastic movement, a cover of resilient material for said channel and aperture in the body, and means for securing said hair at the head end of the bow stick.

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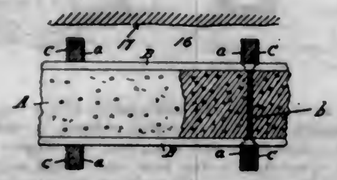
1,695,021. APPARATUS FOR SEPARATING SOLIDS. SAMUEL R. PURYEAR, Nashville, Tenn. Filed Apr. 17, 1926. Serial No. 102,649. 21 Claims. (Cl. 209—18.)



1. In an apparatus of the class described the combination of a passage adapted for liquids and solids and including a receiving chamber; a second passage including a washing chamber and a conductor passing through the receiving chamber; means to reduce the size of said solids while moving said material from said receiving chamber to and through said washing chamber; submerged means to force some solids into said first named passage; means to force other solids into said second named passage; and means to recover the remaining solids in relatively dry condition.

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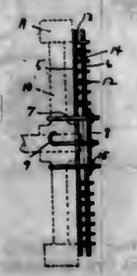
1,695,022. CUTTING TOOL FOR THE TIE WIRES OR BANDS OF CONCRETE BUILDING FORMS, BARRELS, BOXES, BALES, AND THE LIKE. OLLIE WARREN RANKIN, Covington, Ky., assignor to The Dawson-Evans Construction Co., St. Bernard, Ohio, a Corporation of Ohio. Filed Aug. 8, 1927. Serial No. 211,506. 1 Claim. (Cl. 140—141.)



A loop open-wedging and cutting implement for use in severing the tie or binding wires or bands of concrete-building forms, boxes, barrels, cartons and bales or like containers of commodities, such wedging and cutting implement comprising an extensible shank or body-portion, a flat doubly-tapered lower or working end of the said shank having an outside-beveled laterally-broadened wedge-formation and a sharp-edged blade or nose-shaped formation the latter extending forwardly and centrally-lengthwise from the front straight or flat tapered face of said lower working-end of the implement and terminating at a point a little above and in the acting-force position that follows the entrance-action of the said wedge-formation and during its stretching or open-setting action on the clamping-loop portions of the binding wires or bands, substantially as shown and described.

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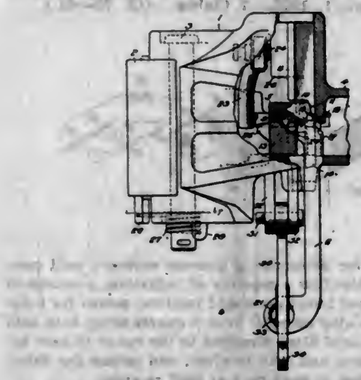
1,695,023. CLEANING DEVICE. JOSEPH SIDNEY REED, Houston, Tex. Filed Mar. 8, 1928. Serial No. 260,105. 1 Claim. (Cl. 125—26.)



A cleaning device of the class described comprising a pair of disks, an attaching plate, wheel attaching bolts carried by said plate and adapted for securing said disks in parallel relation against one side of a supporting wheel for rotation therewith, the outermost of said disks having a series of openings formed therein, cleaning pins extended through said openings having heads formed on their inner ends in abutting relation against the innermost of said disks and a plurality of shims removably carried by the pins and disposed between the disks whereby to regulate the extent at which the pins protrude from the outermost disk.



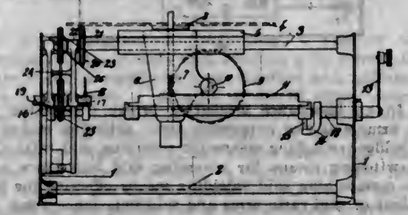
1,695,024. CAR COUPLER. WILLIAM J. REGAN, Wilkinsburg, and WILLIAM KELSO, Pittsburgh, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 24, 1925. Serial No. 45,908. 8 Claims. (Cl. 213—128.)



1. A car coupler involving a coupler head, a knuckle rotatably mounted on said head, a lock for said knuckle, and a lifter for actuating said lock, said lock and said lifter being operatively connected so as to be capable of relative sliding and swinging movements, said head being provided with a shoulder adapted to be engaged by said lifter to thereby prevent accidental unlocking of said lock, said lifter being provided with a shoulder adapted to extend under said shoulder of the coupler head when the lock is in locked position and also being provided with a plurality of faces which, when said lifter is in normal locked relation to said lock, respectively cooperate with said lock and said coupler head to thereby prevent said lifter from swinging in a direction permitting its said shoulder to move from beneath the said cooperating shoulder of the coupler head, and said lock when moved to unlocked position by said lifter being adapted to swing with respect to said lifter so as to be supported in unlocked position on the tail of said knuckle while the latter is in closed position.

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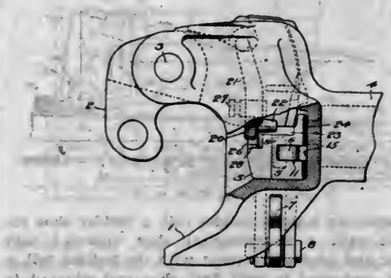
1,695,025. SOUND-RECORDING AND SOUND-REPRODUCING MACHINE. AUGUSTE REMY, JEAN RENAUX, JEAN DELORT, and FRANCIS DEBREBANT, Bezu St. Eloi, France. Filed May 19, 1923, Serial No. 640,081, and in France June 1, 1922. 15 Claims. (Cl. 74—26.)



1. Sound-recording and reproducing apparatus, comprising a turntable; mechanism for rotating it; and mechanism for imparting a linear movement to the turnable during its rotation, and embodying a pinion, driving means therefor, a pivotally-mounted rack along which the pinion is adapted to travel, and means for rocking said rack about its longitudinal axis to bring it into or out of mesh with said pinion.

3. In sound-recording and reproducing apparatus, the combination of a turntable; a driving wheel movable into and out of engagement with the turntable; means for rotating said wheel; means for imparting a linear movement to the turntable during its rotation; and a common means for disengaging the wheel and positively terminating its rotation, and for interrupting the linear movement of the turntable.

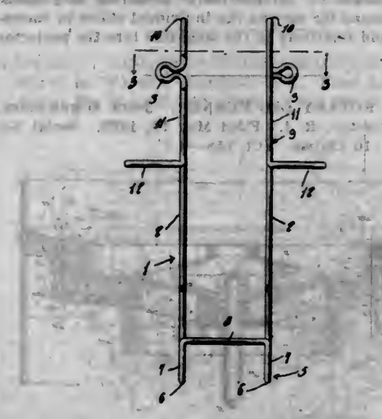
1,695,026. CAR COUPLER. WILLIAM J. REGAN and WILLIAM KELSO, Pittsburgh, Pa., assignors to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 28, 1927. Serial No. 194,984. 6 Claims. (Cl. 213—126.)



1. A car coupler involving a coupler head, a knuckle pivotally mounted on the head, a gravity actuated lock for the knuckle, and a lifter for operating said lock, said lock and lifter being adapted to have relative sliding and swinging movements, said head having a shoulder for cooperating with the lifter to prevent accidental unlocking of the lock, said lifter being formed with a shoulder adapted to engage the shoulder of the coupler head, one of said shoulders extending at an angle to the direction of unlocking movement of the lock, said shoulders being adapted upon a normal unlocking movement of the lifter to cooperate so as to force the shoulder upon said lifter from beneath said shoulder of the coupler head, and said lock when moved to unlocked position by the lifter being adapted to be tilted upon said lifter so as to be supported in unlocked position on the tail of said knuckle while the latter is in closed position.

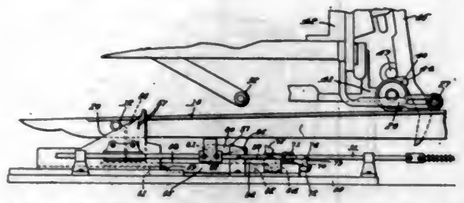
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1,695,027. BAG HOLDER. KENNETH M. RIDDLE, Tulsa, Okla., assignor of one-half to Roscoe C. Mills, Tulsa, Okla. Filed July 7, 1927. Serial No. 203,990. 2 Claims. (Cl. 211—51.)



1. A bag holder comprising a back consisting of bars provided with downwardly and rearwardly inclined lower portions, a bottom support consisting of bars extending downwardly and forwardly from the lower ends of the back bars and bars extending upwardly from the front ends of the support bars and connected at their upper ends by a cross bar, and a top support consisting of top bars extending forwardly from the upper ends of the back bars, front bars extending downwardly from the front ends of the top bars and angular bars extending laterally and thence rearwardly from the lower ends of said front bars.

1,695,028. BUNCH BUILDER FOR SPINNING MULES. THOMAS H. RILEY, Skaneateles Falls, N. Y., and ALSTON H. FLINT, Worcester, Mass., assignors to Johnson & Bassett, Inc., Worcester, Mass., a Corporation of Massachusetts. Filed June 17, 1926. Serial No. 116,732. 6 Claims. (Cl. 118—28.)



5. In a spinning mule, a builder rail, a builder shoe engaging said rail, a supplemental shoe adjacent said builder shoe and adapted to coact with the builder rail, a builder rod connected to said first shoe and adapted to move said shoe relative to the rail and means independent of said builder rod for moving said supplemental shoe.

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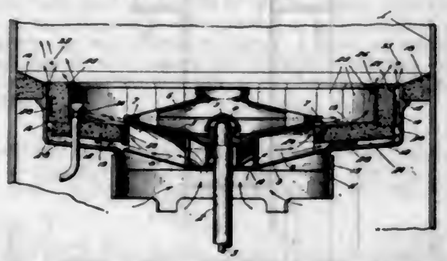
1,695,029. APPARATUS FOR AUTOMATICALLY DISPLAYING LANTERN SLIDES BEARING ADVERTISEMENTS OR OTHER MATTER. SAMUEL CHARLES RYDER, Sydney, Australia. Filed July 1, 1927, Serial No. 202,951, and in Australia Oct. 12, 1926. 15 Claims. (Cl. 88—24.)



1. An improved lantern slide display apparatus comprising a translucent globe, a power unit mounted within said globe, a slide projector enclosed within said globe and rotated therein by the power unit to movably display the slides upon the globe, a slide magazine associated with said projector, means for intermittently actuating said magazine, and means for moving the individual slides in succession from and relatively to the magazine into the projector for display.

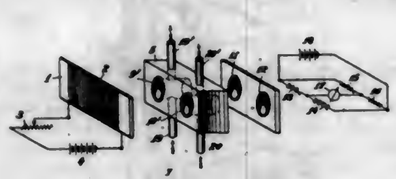
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1,695,030. ROTARY OIL BURNER. JOHN SCHEMINGER, Jr., Providence, R. I. Filed May 10, 1926. Serial No. 108,191. 10 Claims. (Cl. 158—4.)



1. In combination with a fire-box, a fire-deck having a central opening therein and spaced air ducts extending outwardly thereunder and upwardly therefrom around the combustion chamber, an oil distributing device revolubly mounted within said opening and having a restricted peripheral passage for discharging atomized oil, whereby a film of oil is caused to issue from said device over the surface of said fire-deck, a feed-pipe, and means associated with said device for inducing an upwardly and outwardly moving current of air and dividing and forcing the same partly into and through said air ducts and a larger part under the film of oil issuing from said device.

1,695,031. DETERMINING GASEOUS CARBONIC ACID. HANS SCHMICK, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed July 20, 1926, Serial No. 123,784, and in Germany Sept. 1, 1925. 7 Claims. (Cl. 73—51.)



1. A device for determining gaseous carbonic acid comprising in combination a receiver of radiation, a source of radiation adapted to act upon said receiver, means for holding a gas containing carbonic acid, a quarts filter, both said gas holder and said filter arranged in the range of rays between said source and said receiver, and means for determining the action of heat rays at said receiver.

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1,695,032. IMPEDANCE-MEASURING BRIDGE. WILLIAM J. SHACKELTON, Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 16, 1925. Serial No. 62,816. 6 Claims. (Cl. 175—183.)

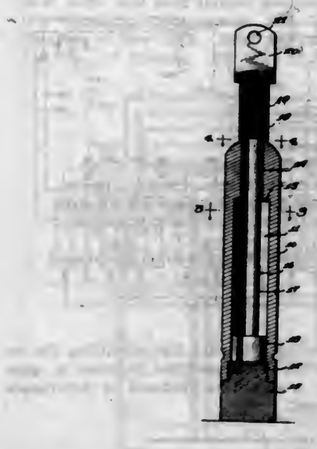


2. In an impedance measuring bridge comprising two ratio arms and two impedance arms, shielding means for said bridge, switching means for reversing said ratio arms and switching means for reversing said impedance arms while maintaining said shielding means effective for both positions of said ratio arms and said impedance arms.

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1,695,033. DEPTH-MEASURING DEVICE. GEORGE W. SMITH, Sistersville, W. Va. Filed Aug. 16, 1927. Serial No. 213,377. 1 Claim. (Cl. 33—126.)

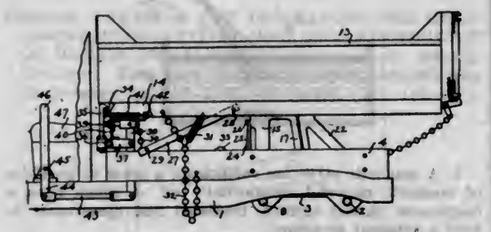
A device of the character described comprising a barrel having a relatively large bore of substantial length intermediate its ends and provided with a relatively small axial opening in its upper end communicating with said bore, a base carried by the lower end of said barrel and having an upper face forming the lower end of said bore, a shank adapted to reciprocate in said axial opening and projecting above said barrel, a relatively large head carried by the lower end of said shank and adapted to reciprocate in said bore, a connecting member secured to the projecting portion of said shank, and a flexible element secured to the upper end of said connecting member, said head being movable upwardly whereby it is adapted to contact with the upper end of said bore to support said barrel and being



movable downwardly whereby it is adapted to contact with the lower end of said bore to transmit a jarring action to said flexible element.

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1,695,034. DUMP BODY. RALPH E. SMITH and ROY J. ARNOLD, Galion, Ohio, assignors to The Galion Metallic Vault Company, Galion, Ohio, a Corporation of Ohio. Filed Apr. 29, 1927. Serial No. 187,664. 4 Claims. (Cl. 298—10.)



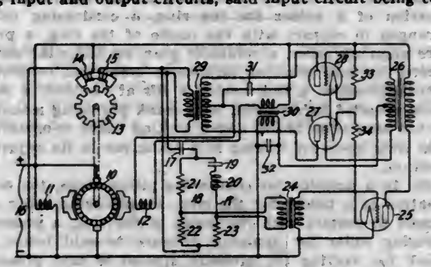
1. In combination, a dump body, a pair of spaced brackets, means to brace said brackets with respect to one another and to rigidly tie them together as a unitary support for said body, a plurality of spaced support engaging jaws on said brackets, a supplementary frame, inwardly disposed depending, supporting and guarding plates mounted on either side of said frame, supporting rods connected therebetween adapted to engage with said jaws on said brackets and U bolts spaced from a pair of said jaws adapted to pass around one of said supports to prevent the brackets from being detached entirely from the supports and limiting the movement of the body with the brackets in one direction.

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1,695,035. ELECTRIC REGULATOR. HUGH M. STOLLER, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 21, 1927. Serial No. 200,459. 20 Claims. (Cl. 171—119.)

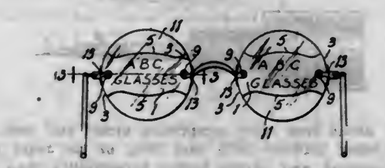
1. In combination, a device having a characteristic to be regulated, means for deriving a wave of frequency proportional to said characteristic, a Wheatstone bridge having one arm in the form of a resonant circuit tuned to the frequency of the wave from said means when the characteristic of said device is normal, said bridge circuit having two sets of terminals, one of said sets of terminals being connected to said means, an electric discharge device having input and output circuits, said input circuit being connected to the other of said sets of terminals, and means connected to said output circuit and responsive to the magnitude of the space current of said device to regulate said characteristic.





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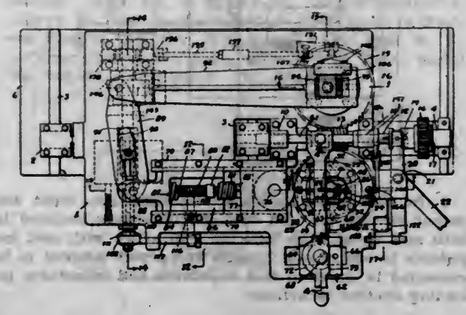
1,695,036. DISPLAY DEVICE. ARTHUR P. THURSBY, St. Louis, Mo. Filed June 28, 1924. Serial No. 722,989. Renewed Oct. 12, 1928. 4 claims. (Cl. 40—1.)




1. In an advertising device the combination of a pair of spectacles comprising a pair of lenses with nose and ear attachments screwed thereto; an advertising insert comprising a shape of material having slots cut laterally therein for engaging said attachments on one lens; and a legend on the forward or lens side of the insert, said insert conforming to the shape of the lens.

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1,695,037. RING-TENSIONING MACHINE. ROBERT BINGHAM WASSON, Cranford, N. J. Filed Jan. 8, 1923. Serial No. 611,273. 71 Claims. (Cl. 29—1.)



6. In a machine for condensing piston rings in accordance with a pre-determined law the combination of a condensing roller arranged to contact with the inside of the ring, a sliding pressure applying roller, a slide block in which the pressure applying roller is mounted, a rotary member, link mechanism between said member and the pressure applying roller, said link mechanism including a

lever, a fulcrum for said lever, the rotation of said rotary member applying pressure to said slide block through said link mechanism.

36. In a machine for condensing piston rings, the combination of a holder for the ring, a condensing roller arranged to contact with the inside of the ring, a pressure applying roller, a rotatable gear, an adjusting screw carried by said gear, an adjustable crank pin connected with said screw, a link having a slit at one end, a slide block mounted in said slot, said crank pin being mounted within said slide block, and a locking plate co-operating said slide block for locking said crank pin in its adjusted position.

65. In a machine for condensing piston rings, the combination of a holder for the ring, a condensing roller arranged to contact with the inside of the ring, a pressure applying roller for applying pressure to said holder, a crank for varying the pressure applied to said pressure applying roller, and means for relieving the pressure applied to the holder.

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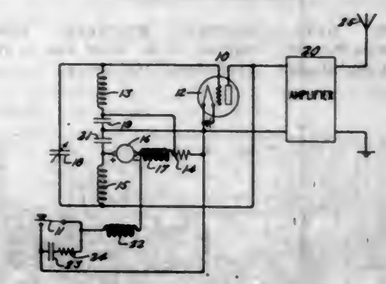
1,695,038. MAGNETIC ALLOY. OLIVER E. BUCKLEY, Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Mar. 6, 1925. Serial No. 13,501. 12 Claims. (Cl. 178—45.)



1. A nickel iron alloy comprising nickel and iron, the nickel being between 80% and 83% of the total iron-nickel content, and having higher permeability than iron at magnetizing forces less than a few tenth of a c. g. s. unit.

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1,695,039. ELECTRIC WAVE SIGNALING SYSTEM. LEWIS M. CLEMENT, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 1, 1925. Serial No. 53,784. 8 Claims. (Cl. 250—19.)

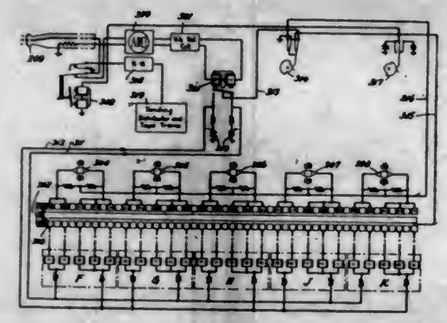



1. In combination, a space discharge tube, input and output circuits for said tube, an impedance included in both said circuits, an inductance in series with said impedance in one of said circuits and a path adapted to be connected in shunt to said impedance and inductance including another inductance.

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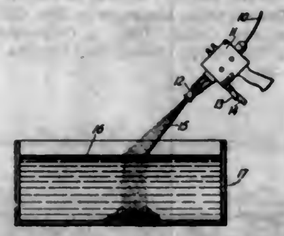
1,695,040. MULTIPLEX-TELEGRAPH SYSTEM. ALLISON A. CLOKEY, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 29, 1926. Serial No. 125,610. 22 Claims. (Cl. 178—50.)

1. A telegraph system for transmission of impulses in a plurality of channels, said impulses being originally prepared in accordance with a readable code and transmitted in accordance with a modified code, comprising a leak recorder for one of said channels having a single operating circuit and including a by-path for permitting the reception by said recorder of the modified impulses in opposite modes, whereby a record is produced in accordance with said readable code.



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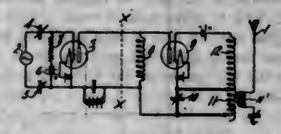
1,695,041. PRODUCTION OF MAGNETIC DUST CORES. GUSTAF W. ELMEN, Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. N. Y., a Corporation of New York. Filed Dec. 17, 1926. Serial No. 155,509. 11 Claims. (Cl. 175—27.)




1. A magnetic structure comprising a mass of particles of magnetic material substantially all of which have a continuous curved surface, insulated and compressed to form a coherent structure.

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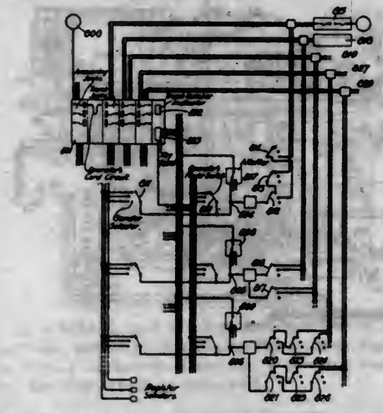
1,695,042. HIGH-EFFICIENCY DISCHARGE-DEVICE SYSTEM. JUSTIN L. FEARING, Jamaica, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 15, 1923. Serial No. 657,484. 18 Claims. (Cl. 179—171.)



1. The method of rectifying periodically repeated impulses to produce oscillations by means of a rectifying device, which comprises applying current impulses to the rectifying device, causing the impulses to set up oscillations having a frequency integrally related to the impulse frequency and causing the oscillations to control the impedance of the rectifying device whereby its impedance is increased to a high value during the interval between successive impulses.



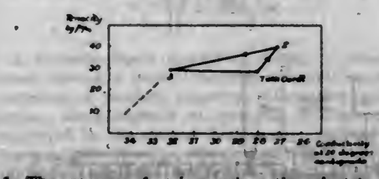
1,695,043. TELEPHONE-EXCHANGE SYSTEM. WILLIAM T. HAINES, Mountain Lakes, and ROBERT W. HARPER, East Orange, N. J.; said Haines assignor to American Telephone and Telegraph Company, a Corporation of New York, and said Harper assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 22, 1926. Serial No. 143,362. 10 Claims. (Cl. 179—27.)



8. In a telephone exchange system, a plurality of groups of trunks, operators' positions, one operator's device for each group of trunks in each of said positions, a group of switching devices common to said operators' devices, groups of trunk selecting switches, and means responsive to the actuation of any one of said operators' devices to select an idle switching device, to select a trunk selecting switch in a particular group and to select an idle trunk in said group.

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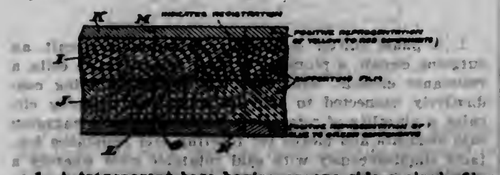
1,695,044. PROCESS FOR INCREASING THE ELECTRICAL CONDUCTIVITY AND THE FLEXIBILITY OF METALS OR ALLOYS. KARL HALLMANN, Munich, Germany. Filed Sept. 21, 1922, Serial No. 589,702, and in Germany Aug. 11, 1922. 2 Claims. (Cl. 148—11.)



1. The process for increasing the electrical conductivity and flexibility of aluminum alloys which consists in annealing aluminum alloys to recrystallisation temperatures, reducing their cross-section by treatment in the cold and heating them to temperatures between 160 and 200 degrees centigrade.

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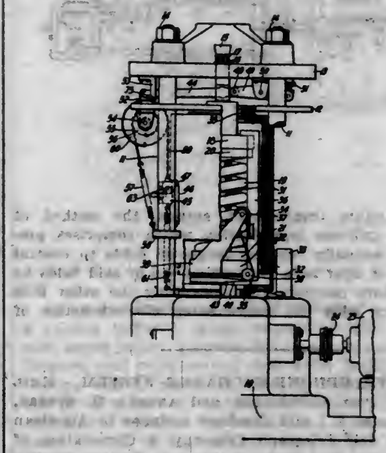
1,695,045. COLOR PHOTOGRAPHY AND THE LIKE. ARON HAMBURGER, London, England. Filed Mar. 5, 1923, Serial No. 623,020, and in Great Britain Mar 7, 1922. 31 Claims. (Cl. 95—2.)



1. A transparent base having on one side a single film continuous tone positive image corresponding substantially to yellow and red sensations and on the other a single film continuous tone positive image corresponding substantially to green and blue-green sensations of the same object.

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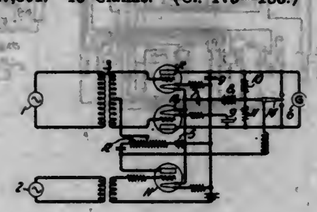
1,695,046. TESTING APPARATUS. CLAUDE L. HIPPENSTEEL, Elizabeth, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 23, 1926. Serial No. 156,578. 5 Claims. (Cl. 265—2.)



1. A machine for indicating the penetrating effect of a conductor upon its surrounding insulation which comprises a pair of jaws for receiving the insulated conductor, means for slowly forcing one of said jaws toward the other to force the conductor into the insulation upon both sides thereof, means controlled by the movable jaw and means controlled by the conjoint movement of the movable jaw and by the force applying means for automatically graphically indicating the relation between the force applied to the insulated conductor and the penetration of the conductor into the insulation.

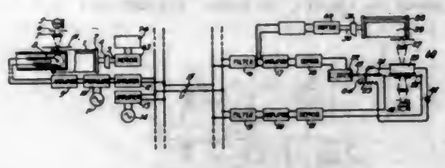
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1,695,047. ART OF ELECTRICAL MEASUREMENTS. JOSEPH W. HORTON, Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1924. Serial No. 747,801. 45 Claims. (Cl. 175—183.)



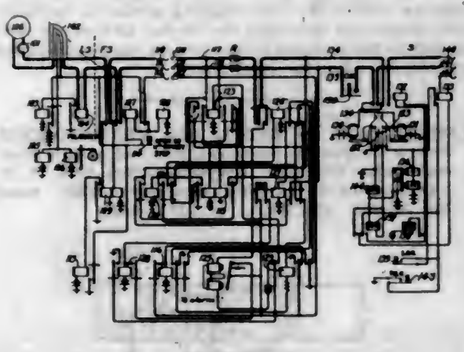
5. The method of magnifying minute potential variations using a rectifier whose impressed-potential-output-current characteristic curve over its conducting range progressively increases in slope with increasing impressed potentials which comprises boosting said minute variations by superposing thereon other variations of the same frequency, and rectifying and indicating said boosted minute variation.

1,695,048. PICTURE TRANSMISSION. HERBERT E. IVES, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, a Corporation of New York. Filed Dec. 24, 1925. Serial No. 77,466. 8 Claims. (Cl. 178—7.)



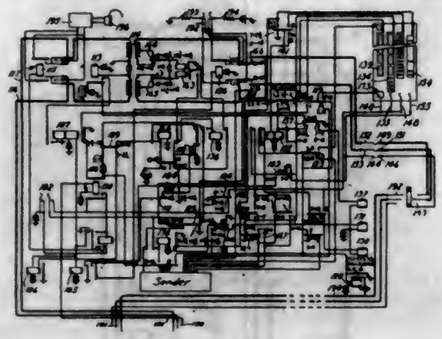
1. In a picture transmission system, the method of maintaining uniform reproduction which comprises producing two mutually reacting magnetic fields to control the passage of light rays, controlling one of said fields by received picture currents and controlling the other field in accordance with the transmission characteristics of the system.

1,695,049. TELEPHONE-EXCHANGE SYSTEM. EMIL JACOBSEN, Port Washington, and ARTHUR B. SPERRY, New York, N. Y.; said Jacobsen assignor to American Telephone and Telegraph Company, a Corporation of New York, and said Sperry assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 11, 1925. Serial No. 55,652. 7 Claims. (Cl. 179—9.)



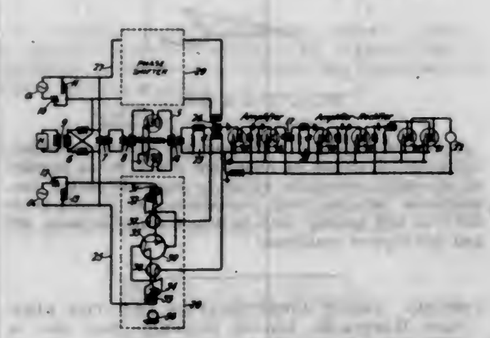
1. In a telephone exchange system comprising automatic switches employed for extending calls from one subscriber to another and call charging means automatically operable upon completion of such calls, intercepting operator position circuits to which certain calls are automatically extended, apparatus to disable the operating circuit for said call charging means, an intercepting operator's cord circuit, and means in said cord circuit automatically operable to operate said disabling apparatus.

1,695,050. PULSING SYSTEM. ERIC R. LUNDIUS, Richmond Hill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 1, 1924. Serial No. 747,175. 8 Claims. (Cl. 179—175.)



1. In a telephone exchange system, means for transmitting trains of impulses of various characteristics, said means comprising keys operable to vary the character of impulses in each train, relays progressively operable to establish circuit paths for the transmission of the individual impulses of each train and a step-by-step switch to control the progressive operation of said relays.

1,695,051. TRANSLATING CIRCUITS. WARREN A. MARRISON, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed May 6, 1925. Serial No. 28,309. 11 Claims. (Cl. 171—119.)



1. A phase shifter comprising an incoming circuit, an outgoing circuit, a plurality of fixed and rotatable coils, a resistance element, said coils and resistance being conductively connected to said incoming and outgoing circuits, a plurality of rotatable resistance contacts engaging said elements and means for rotating said resistance contacts simultaneously with said rotatable coils whereby a shift in phase can be obtained between the voltages in said incoming and outgoing circuits.

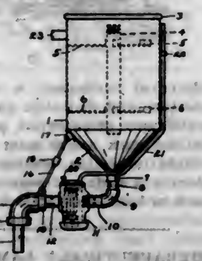


1,695,052. KNOCKDOWN FUSEE AND CARRYING CASE. WILLIAM C. MCMURRAY, Avalon, Pa. Filed Oct. 6, 1927. Serial No. 224,365. 3 Claims. (Cl. 246—188.)



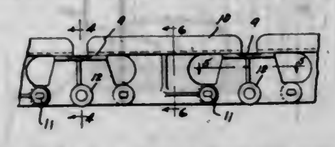
1. A fusee formed of independent sections of combustible material, means for connecting the sections together so as to form a continuous fusee and a carrying case for holding the sections when separated.

1,695,053. PORTABLE LIQUID-RECORDING FUNNEL. DANIEL G. MILLIGAN, Fort Wayne, Ind. Filed June 11, 1926. Serial No. 115,284. 1 Claim. (Cl. 226—29.)



A portable liquid measuring device comprising a container having a conical bottom, a handle secured to the container, a conduit mounted within the container and having screw threads at one end, a discharge conduit supported in the conical bottom and adapted to convey liquid supplied to the container through the first named conduit, a combined brace and handle connected to the container and to the discharge conduit, and recording mechanism interposed in the discharge conduit and operated by the liquid flowing through said conduit to record the quantity of said liquid.

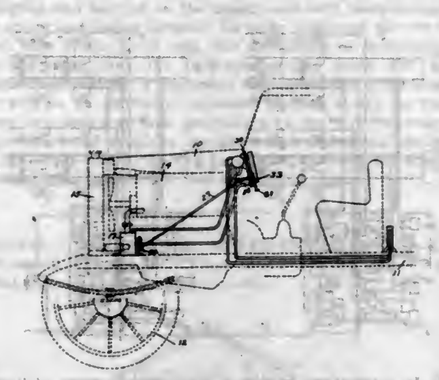
1,695,054. CONVEYER. HORACE H. MORGAN, Detroit, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 22, 1926. Serial No. 149,991. 9 Claims. (Cl. 198—196.)



7. In a conveyer, a chain including conveyer supporting links and work engaging links pivotally connected to said first-mentioned links and supported thereby independently of the pivots.

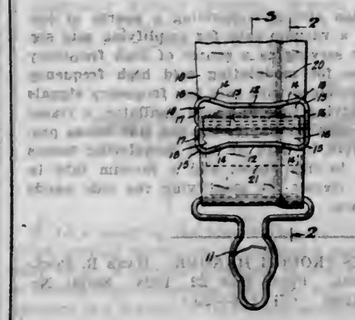


1,695,055. WATER-CIRCULATION-CONTROL MECHANISM FOR AUTOMOBILES. JOHN A. MORGAN, Los Angeles, Calif., assignor to The John A. Morgan Machinery Company, Los Angeles, Calif. Filed Jan. 29, 1923. Serial No. 615,639. 1 Claim. (Cl. 123—174.)



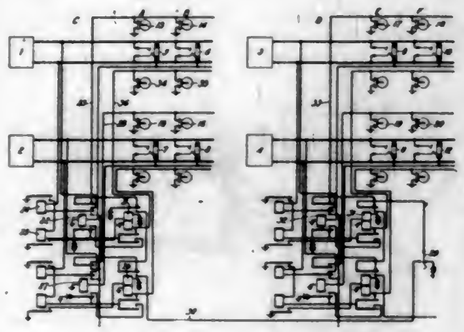
In an automobile, an engine including a water jacket a cooling radiator, means connecting said radiator and said water jacket, a power driven rotary pump interposed between said radiator and said water jacket in said connecting means, manually actuated means operable from the driver's seat for varying the action of the rotor of said pump whereby the water head delivered from said pump will be varied without changing the speed of said pump rotor.

1,695,056. SLIDE BUCKLE. CHARLES A. MOSGROVE, Waterbury, Conn., assignor to The Autoyre Company, Oakville, Conn., a Corporation of Connecticut. Filed Oct. 6, 1927. Serial No. 224,345. 5 Claims. (Cl. 24—200.)



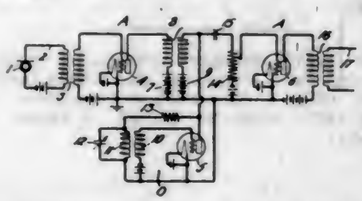
8. A slide buckle including an intermediate bar and side bars spaced laterally from the intermediate bar on the opposite sides thereof, said bars being connected by end bars at their opposite ends, the side bars having their central portions substantially parallel with the intermediate bar and at their opposite ends extending outwardly away from the intermediate bar to form open loops with the end bars and of greater width than the distance between the central portions of the bars.

1,695,057. TELEPHONE SYSTEM. PAUL B. MURPHY, Nyack, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed May 31, 1927. Serial No. 195,251. 10 Claims. (Cl. 179—41.)



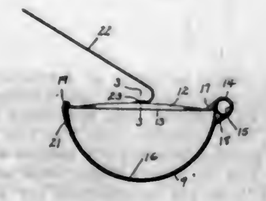
1. In a telephone system, a plurality of groups of lines normally functioning as individual units, each group having a signal normally actuated, and means for combining said groups to function as a single unit and restoring the signals in all but one of said groups.

1,695,058. HIGH-FREQUENCY SIGNALING. EUGENE PETERSON, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 15, 1923. Serial No. 680,810. 8 Claims. (Cl. 179—171.)



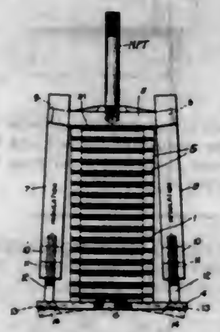
1. A transmission system comprising a source of low frequency signals, a vacuum tube for amplifying said signals, an oscillator serving as a source of high frequency oscillations, means for modulating said high frequency oscillations in accordance with said low frequency signals in both said amplifying tube and said oscillator, a transmission circuit, means for impressing the side bands produced by modulation in both of said modulating means upon said circuit in like phase, and a vacuum tube in said transmission circuit for amplifying the side bands impressed thereupon.

1,695,059. EAVES-TROUGH HANGER. HANS R. POULSEN, Lyme, Conn. Filed May 22, 1928. Serial No. 279,772. 2 Claims. (Cl. 108—29.)



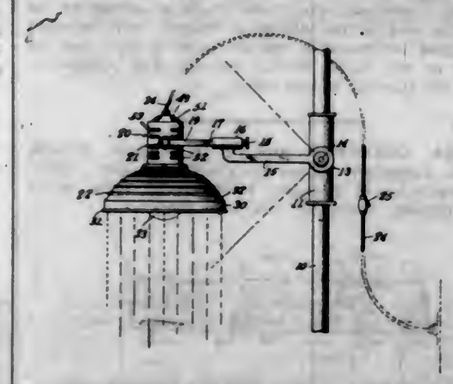
1. In an eavestrough hanger, the combination with a main hanger-member tapered from end to end and comprising a strap-portion and a bridge-portion, of a reinforce-member tapered from end to end, applied to the upper face of the bridge-portion of the said main hanger-member, than which it is wider, and having its opposite edges folded over the opposite edges thereof and upon the under-face thereof, and the said two members, as thus combined, being bent to form a loop at one end of the reinforce-member and at its opposite end a downwardly-turned hook slotted for the reception of the free end of the strap-portion of the main hanger-member.

1,695,060. ELECTRICAL CONDENSER. WILLIAM H. PRIESS, Boston, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed Oct. 22, 1919, Serial No. 332,421. Renewed Sept. 26, 1925. 18 Claims. (Cl. 175—41.)



5. In an electrical condenser, a stack composed of sheets of conductors and dielectric and having its opposite ends at a difference of potential, pressure plates upon opposite ends of the stack one at least of said plates being springy, and rigid insulating tension means connecting said plates, whereby a spring pressure is exerted over the ends of the stack to hold said sheets together.

1,695,061. THERAPEUTICAL LAMP. FREDERIC W. ROBINSON and KENNETH V. KNAPP, Newark, N. J., assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J., a Corporation of New Jersey. Filed May 12, 1927. Serial No. 190,668. 4 Claims. (Cl. 174—177.)

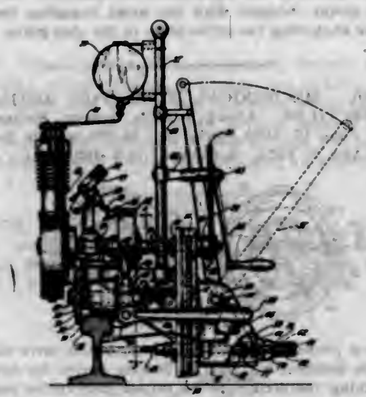


1. A therapeutic lamp reflector having a generally parabolic shape composed of a beaded cylindrical lower element,



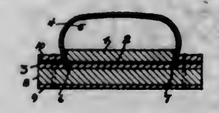
a series of ten bands presenting faces disposed from the bottom to the top progressively at approximately the following angles: 45°—0′, 41°—42′, 38°—30′, 35°—3′, 31°—45′, 27°—59′, 23°—42′, 19°—41′, 14°—32′, 8°—21′, all of said angles being subtended from the axis of the reflector, and plain narrow cylindrical bands connecting between said angular bands, said cylindrical bands decreasing in width from the lowermost to the uppermost, and a cylindrically flanged opening at the top of the reflector, said elements being all of integral construction.

1,695,062. TRACK DRILL. ROBERT ROBTRON, Chicago, Ill., assignor to Crerar, Adams & Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1925. Serial No. 15,482. 6 Claims. (Cl. 77—8.)



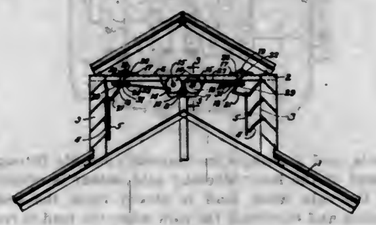
1. In an apparatus for drilling tracks and the like, the combination of a main frame, a drill carried thereby, means for rotating said drill, a device for firmly holding said main frame and drill in operative position to the rail comprising a separate and independent carriage, said carriage and main frame having complemental adjustably connectable parts for permitting their relative vertical adjustment, said carriage having a plate adapted to lie on one side of the rail and having the lower portion thereof adapted to grip the side of said rail, said plate having laterally extending rods formed with bearing members, shafts passing through said bearing members and plate, rollers on said shafts, said rollers adapted to rest upon the top of said rail, a shaft carried by said bearing members and lying transversely to said first-mentioned shafts, complemental rail clamping members carried by said last-named shaft, and means for angularly moving said last-named shaft to cause said complemental rail clamping member to grip said rail.

1,695,063. SHOE. THOMAS SAMANITI, Brooklyn, N. Y. Filed Nov. 26, 1927. Serial No. 236,001. 1 Claim. (Cl. 36—16.)
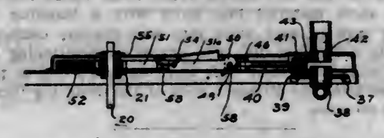


A stitch-down shoe including an outer and an intermediate sole, an inner sole secured thereto and constructed of relatively thick high grade leather to provide a substantially rigid marginal edge, an upper and a lining overlying the marginal edge of the inner sole and both deflected laterally therefrom in contact with and extending to the edge of the intermediate sole, means for securing the upper and lining to the intermediate sole, and a welt secured to the intermediate and outer soles and overlying and bearing on the upper, said welt compressing the upper and lining between its inner edge and the marginal edge of the inner sole, the welt being of materially less thickness than the thickness of the inner sole to utilize that portion of the inner sole above the surface of the welt as an abutment to resist bending strain on the upper and lining at their juncture with the welt, whereby to avoid loss of shape in the upper and disrupting strain on the upper fastenings and to prevent opening the seam between the upper and the welt.

1,695,064. MECHANICAL MOVEMENT. RAYMOND D. SCHNOOR, Chicago, Ill. Filed July 28, 1923. Serial No. 654,335. 5 Claims. (Cl. 74—14.)



1. A device of the character described including two reciprocable members, a revoluble operating member, and means whereby either of said reciprocable members may be positioned at either end of its stroke while the other reciprocable member is at either end of its stroke by angular adjustment of the operating member including two crank pins operated therefrom and connected with respective reciprocable members for controlling the stroking thereof and timed to act sequentially thereon.

1,695,065. WASHING MACHINE. SIMON E. SCHROEDER, Newton, Iowa, assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa, a Corporation of Delaware. Filed Aug. 21, 1926. Serial No. 130,624. 2 Claims. (Cl. 74—14.)

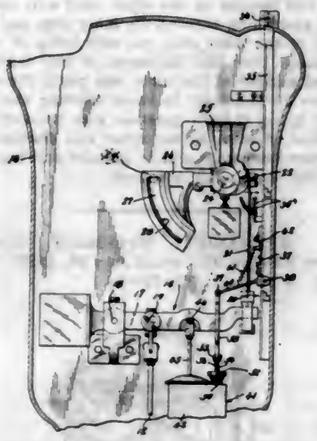


2. In a washing machine having an upwardly movable cover, driving mechanism comprising a rack disposed above said cover, a pitman arranged to reciprocate said rack, a downwardly extending hook on said rack having its forward end beveled, a transverse member on said pitman constructed and arranged to engage the beveled end of the hook to raise it, and a spring urging said rack downwardly to cause the hook to engage the transverse member.

1,695,066. COIN-TRIP MECHANISM FOR PERSONAL WEIGHING SCALES. LOUIS S. SHIVELY, St. Louis, Mo., assignor to The Weightograph Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 10, 1925. Serial No. 55,591. 9 Claims. (Cl. 194—6.)

1. In a personal weighing scale, the combination of weighing mechanism including a lever, indicating mechanism including illuminated projecting means, a coin chute having

spaced electric terminals therein, in circuit with the illuminating means, said circuit being adapted to be closed by a coin inserted in said chute, a detent operable in said chute to retain and release the coin from a position between said



terminals, and a dashpot mechanism operable through the movement of the lever whereby said detent is operated to retain the coin when load is placed upon the weighing mechanism and to release the coin when the load is removed from said weighing mechanism.

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1,695,067. METHOD OF MAKING FINGER RINGS. ABRAHAM SUDEROV, New York, N. Y. Filed Sept. 19, 1925. Serial No. 57,313. 2 Claims. (Cl. 29—160.6.)



1. The method of forming finger rings which includes cutting sheet material into units with a blanking die, pressing each of said units into semi-annular configuration with a forming die, then oppositely positioning two of said units with their ends abutting and while so positioned securing the adjacent ends of the units together to form an annulus.

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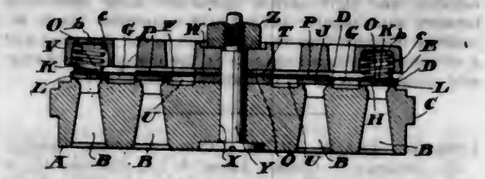
1,695,068. METHOD OF PRODUCING ELEMENTAL SULPHUR. ALFRED PAUL THOMPSON, Jackson Heights, N. Y., assignor to General Chemical Company, New York, N. Y., a Corporation. Filed Dec. 16, 1926. Serial No. 155,349. 9 Claims. (Cl. 23—226.)

1. In the process of producing elemental sulphur by the reduction of sulphur dioxide with solid carbonaceous fuel, the step of simultaneously causing an endothermic reaction substantially free from hydrogen in any form whereby the temperature of the reduction process is controlled.

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1,695,069. PLATE VALVE. GROVER G. TUTTLE, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 14, 1925. Serial No. 62,402. 2 Claims. (Cl. 251—119.)

1. A plate valve comprising a valve seat, a valve plate adapted to seat on said valve seat, a stop plate for limiting the opening of the valve plate, a guide plate having concentrically arranged annular solid portions, arms connecting said portions, said arms being flexible to permit relative longitudinal movement of the portions, a flange on the guide plate to engage an edge of the valve plate



for guiding said valve plate, springs between the stop plate and the guide plate actuating the outer annular portions for pressing the valve plate on the valve seat, and flexible means integral with the arms engaging the stop plate for anchoring the guide plate to the stop plate.

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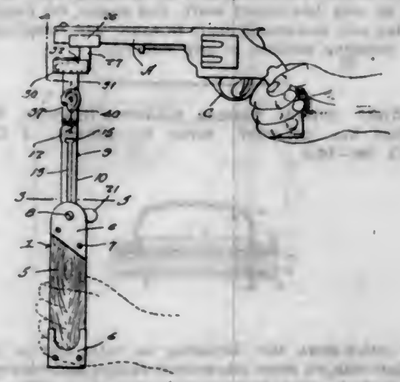
1,695,070. MECHANICAL FUSE FOR ARTILLERY PROJECTILES. ANDRÉ VARAUD, Geneva, Switzerland. Filed June 17, 1925, Serial No. 37,008, and in Switzerland Aug. 2, 1923. 5 Claims. (Cl. 102—36.)



1. In a projectile of the type described, a drive shaft, a revoluble member, a striker, a locking device for normally maintaining the striker in an initial inoperative position, means connecting the drive shaft and revoluble member whereby when the drive shaft is turned in one direction the revoluble member is turned to a set position and when the drive shaft turns in the opposite direction the revoluble member is turned thereby a predetermined portion of a revolution in the other direction to determine the moment of release of the striker, means for normally maintaining the locking member out of contact with the revoluble member until just before the release of the striker, and means for actuating the locking member causing the same to co-operate with the revoluble member for the release of the striker.

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1,695,071. ATTACHMENT FOR REVOLVERS. ANTONIO MARIANO VILLALPANDO, Mexico City, Mexico. Filed Mar. 5, 1928, Serial No. 259,276, and in Mexico Mar. 18, 1927. 5 Claims. (Cl. 42—72.)



1. In an attachment for revolvers, the combination of a bracket secured on the barrel, a handle secured at one end



to the bracket for swinging movement beneath the barrel, cooperating means between the bracket and the handle for locking the handle in a rigid vertical position, and additional means carried by the handle for cooperation with the trigger guard to hold the handle in a folded position.

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1,695,072. SEAT CUSHION. HARRY G. WEDLER, St. Louis, Mo., assignor to The Wedler-Shuford Co., St. Louis, Mo., a Corporation of Missouri. Filed May 29, 1926. Serial No. 112,565. 5 Claims. (Cl. 155—180.)



1. A transversely and longitudinally flexible cushion comprising coiled springs, a fibrous non-metallic textile case confining said springs and extending across the opposite ends of said springs, straw matting secured around said case opposite both ends of said springs, and an outer fibrous non-metallic textile case enclosing all of said parts.

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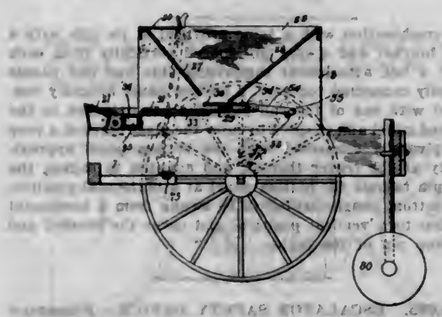
1,695,073. GASKET. EDWARD J. WIRFS, Jr., Glendale, Mo., assignor to E. J. Wirfs Organization, Inc., St. Louis, Mo., a Corporation of Missouri. Filed Nov. 8, 1926. Serial No. 147,079. 3 Claims. (Cl. 20—69.)



1. A gasket comprising, a roll, an envelope enclosing said roll and having its free edges extended to provide a tacking lap and an inside line of stitches passing through the envelope plies along said roll and adapted to confine the same in order to provide a tight but yielding packing, said plies being adhesively secured together beyond said line of stitches in order to stiffen the tacking lap.

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1,695,074. PLANTER. BENJAMIN ZENDRON, Craig, Colo. Filed Oct. 8, 1927. Serial No. 224,848. 6 Claims. (Cl. 221—135.)



4. In a planter, the combination of a hopper, a seed-depositing mechanism at the rear and at one side of the hopper, means for feeding seed forwardly from the hopper, and conveyers arranged in advance and at the side of the hopper for transferring seed from said feeding means to the seed-depositing mechanism.

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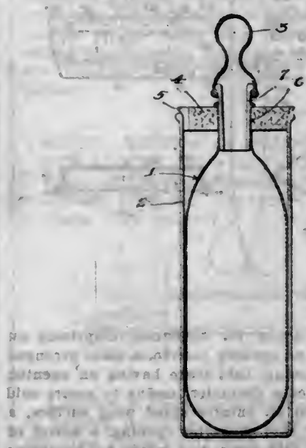
1,695,075. ROLLER FOR CONVEYERS. EARL W. ZIMMERMAN, Syracuse, N. Y. Filed July 15, 1926. Serial No. 122,653. 1 Claim. (Cl. 193—37.)



A conveyer comprising a series of rollers, each roller having an eccentric weight on one side of its axis.

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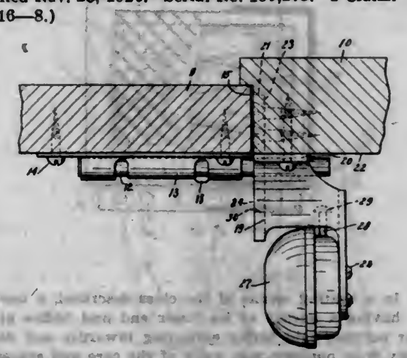
1,695,076. LIQUID CONTAINER, NURSING BOTTLE. LUDWIG ALVINE ZOHE, Syracuse, N. Y. Filed Oct. 13, 1925. Serial No. 62,239. 2 Claims. (Cl. 215—11.)



1. A container of the class described comprising an outer rigid receptacle, a flexible collapsible inner receptacle for receiving a liquid, each receptacle being complete in itself and the outer receptacle completely housing the inner receptacle, a detachable closure for the outer receptacle and the inner receptacle having an outlet at one end carried by said closure.

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1,695,077. COMBINED DOOR FASTENER AND ALARM. ARNOLD ZUKOR and HANS IRMSCHER, New York, N. Y. Filed Nov. 23, 1926. Serial No. 150,275. 1 Claim. (Cl. 116—8.)

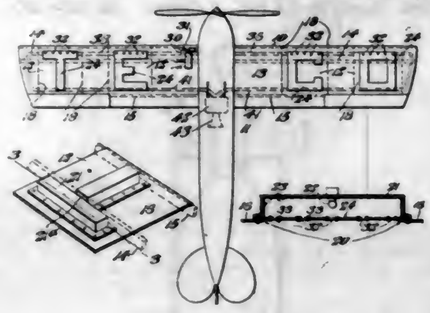


The combination with a door frame and a door hinged thereto, of a longitudinally shiftable latch bolt on said door, a keeper on said frame provided with a horizontal slot through which said bolt is adapted to be projected,

said bolt engaging in its projected position the inner edge of said slot when said door is in its closed position, said slot permitting of a limited opening of said door when said bolt is projected into said slot, a bell mounted upon said keeper, and releasing means for said bell including a shiftable plunger trip provided with a head, said head facing the inner face of said door frame and projecting beyond the outer edge of said slot whereby said bolt is adapted to contact with said head before it strikes against the outer edge of said slot.

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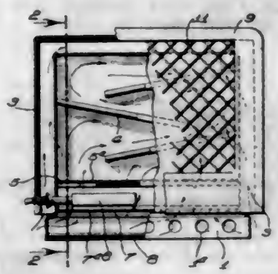
1,695,078. AIRPLANE ADVERTISING DEVICE. LEO BARKER, Wayne, Pa., assignor to Starlighters, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Feb. 4, 1928. Serial No. 251,811. 8 Claims. (Cl. 40—127.)



1. An illuminated device for airplanes comprising an airplane wing having an opening therein, a plate arranged to fit within said opening, said plate having an opening therein in the shape of a character, means to secure said plate in place to form an uninterrupted wing surface, a transparent cover for said character opening, a source of light for illuminating said cover, and means for absorbing all light rays except those to be transmitted directly through said cover from said source of light.

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1,695,079. ROOM HEATER. GEORGE E. BARNHART, Los Angeles, Calif. Filed May 11, 1927. Serial No. 190,619. 8 Claims. (Cl. 126—90.)



2. In a heating means of the class described, a heating core having a burner at its lower end and baffles at its upper portion, said baffles extending inwardly and downwardly from opposite side walls of the core and spaced at their inner ends from the opposite wall, said baffles being channel shaped with the portions intermediate the edges lower than the edges whereby the hot gases from said burner are directed toward the side wall of the core.

1,695,080. PERMUTATION LOCK. HARRY A. BARRETT, Philadelphia, Pa., assignor to Barrett Lock Company, Inc., a Corporation of Delaware. Filed May 13, 1925, Serial No. 29,886. Renewed May 19, 1928. 3 Claims. (Cl. 70—112.)



1. In a lock of the character stated a casing having fixed therein radially disposed guides having opposed grooved faces, a plurality of tumbler rings rotatably fitted to said grooves, each ring having an inner projection and an outer notch, a knob, a rotatable post operative through said rings and fixed to said knob, for engaging with said projections, a shackle, and a pivotal dog one end of which is adapted to ride upon the peripheries of said rings and the opposite end of which is for engaging said shackle.

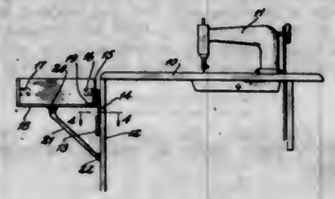
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1,695,081. FERTILIZER. GEORGE BARSKY, New York, N. Y., and FREDERICK W. FREISE, Palmyra, N. J., assignors to American Cyanamid Company, New York, N. Y. Filed June 25, 1923. Serial No. 647,764. 19 Claims. (Cl. 71—6.)

2. A method of producing a fertilizer material, which comprises bringing the proteins of nitrogenous organic industrial waste into combination with free cyanamid in presence of sulphuric acid; substantially as described.

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1,695,082. SEWING-TABLE ATTACHMENT. CHRISTIAN BITZER, New York, N. Y. Filed Feb. 3, 1926. Serial No. 85,690. 1 Claim. (Cl. 45—75.)



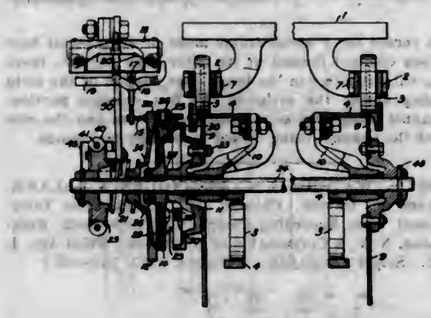
In combination with a table provided at its side with a pleat bracket and a stop pin spaced vertically from each other, a box attachment comprising side and end panels hingedly connected together, a bottom panel hingedly connected with one of the end panels, a bar attached to the said end panel and adapted to enter the pleat bracket, a prop arm pivotally connected with the bottom panel approximately at the center thereof, and adapted to engage the stop pin to hold the bottom panel at a horizontal position, said bottom panel adapted to be swung from a horizontal position to a vertical position, and cover the bracket and the stop pin of the table.

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1,695,083. ESCALATOR SAFETY DEVICE. FREDERICK WILLIAM BLACKBURNE, London, England, assignor to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 30, 1926, Serial No. 151,701, and in Great Britain Sept. 25, 1926. 6 Claims. (Cl. 198—232.)

1. An escalator safety device, comprising a pair of revoluble discs driven by the respective escalator chains, said discs being mounted coaxially, a third disc mounted beside said pair of discs, means for displacing said third disc laterally in the event of rotation of said pair of discs relatively to one another, said means including an unequal-

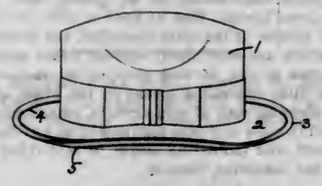




armed lever fulcrumed upon one and engaged by its shorter arm with the other of said pair of discs and having its longer arm adapted to bear against a side face of said third disc, and means for interrupting the drive upon resulting lateral displacement of said third disc.

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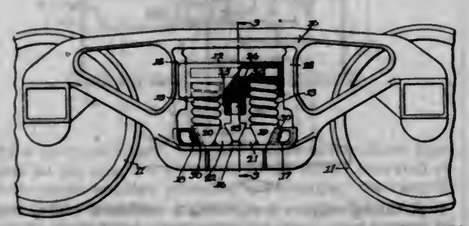
1,695,084. HAT WELT AND PROCESS OF FORMING SAME. WILLIAM BUSOLD, West Orange, N. J., assignor to The Trimble Hat Company, Orange, N. J., a Corporation of New Jersey. Filed Aug. 10, 1927. Serial No. 211,906. 2 Claims. (Cl. 2—178.)



1. A felt hat having a brim, a welt around the edge of said brim, and a permanent groove in the side of the brim opposite the welt, the grooved portion of the brim being shrunk and having greater rigidity than the remaining portion of the brim, the welt side of the brim being smooth from the welt to the crown.

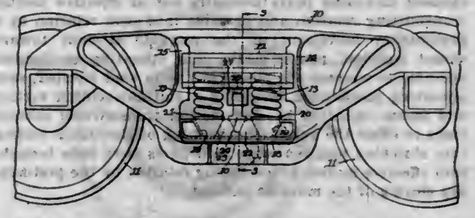
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1,695,085. RAILWAY-CAR TRUCK. JAMES R. CARDWELL, Chicago, Ill. Filed Aug. 31, 1927. Serial No. 216,511. 17 Claims. (Cl. 105—197.)



1. In a car truck, a side frame comprising a pair of columns and a tie member uniting the lower ends thereof, a bolster slidably engaging the columns, springs supporting the bolster, and a system of wedging elements interposed between the bolster and frame and carrying the springs.

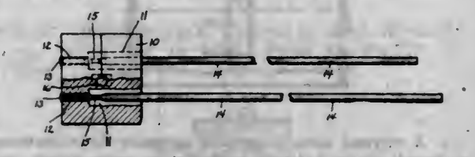
1,695,086. RAILWAY-CAR TRUCK. JAMES R. CARDWELL, Chicago, Ill. Filed Aug. 31, 1927. Serial No. 216,512. 4 Claims. (Cl. 105—197.)



1. In a car truck, an end frame, a bolster, springs for supporting the bolster, a pair of wedge blocks having backwardly and upwardly inclined wedging faces carried by the frame, means connecting such blocks together to resist spreading stresses, double faced wedging elements engaging such faces and forming seats for the springs, a pair of triangular wedge blocks each engaging a face of the last named blocks, and a spreading wedge interposed between the triangular blocks and having a stem engageable by the bolster.

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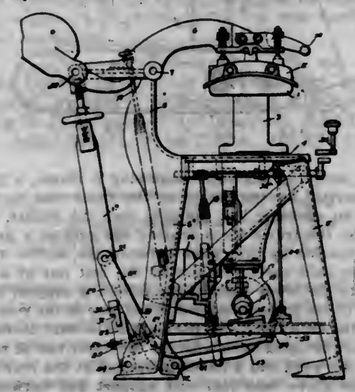
1,695,087. METHOD OF PRODUCING GONG STANDS FOR CLOCKS. ELOF L. CARLSON, Bristol, Conn., assignor to The E. Ingraham Co., Bristol, Conn., a Corporation. Filed Jan. 20, 1928. Serial No. 248,085. 1 Claim. (Cl. 29—177.)



A method of producing cast-metal gong-stands consisting in forming the clearance-chamber of the stand by coring the same concurrently with casting the stand and then subjecting the cored stand to a drilling operation for producing an anchoring-bore extending axially from the bottom of the clearance-chamber through the opposite wall of the stand to provide for the drive-fit insertion of the anchoring-tang of the said gong.

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1,695,088. OPERATING MECHANISM FOR PRESSING MACHINES. ALBERT B. CLIASSON, Syracuse, N. Y., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Sept. 4, 1924. Serial No. 735,840. 8 Claims. (Cl. 68—9.)

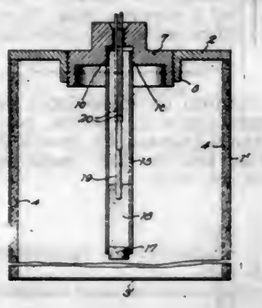


1. In a pressing machine, the combination of coacting pressing elements, one movable toward and from the other,

actuating mechanism for the movable element including an intermittently movable power member, motion transmitting connections between the power member and the movable element including parts normally out of effective motion transmitting relation and movable into such relation by a preliminary movement of the movable element toward closed position, power means and operating mechanism operable to connect the power means to said member, said operating mechanism including a shiftable clutch section and means operated by said motion transmitting connections to effect the automatic throwing of the clutch section into clutching position when said parts have been brought into effective motion transmitting relation by the preliminary closing of the movable element.

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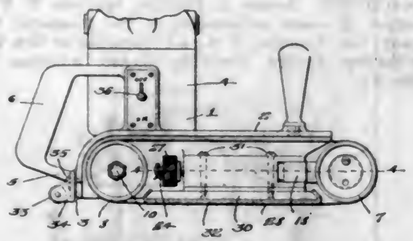
1,695,089. THERMAL MINE. JOHN H. DEPPELER, Weehawken, N. J., assignor to The Heat Research and Service Corporation, Wilmington, Del., a Corporation of Delaware. Filed Nov. 2, 1926. Serial No. 145,866. 3 Claims. (Cl. 102—7.)



1. A thermal mine comprising a casing for containing a thermit charge having a body portion comparatively unaffected by the heat of the thermal reaction and a bottom which burns out and releases the charge when the reaction is complete.

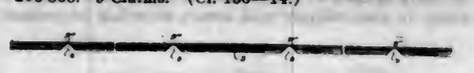
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1,695,090. ABRADING MACHINE. ARTHUR N. EMMONS, Nedrow, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a Corporation of New York. Filed Dec. 30, 1926. Serial No. 158,062. 2 Claims. (Cl. 51—170.)



1. An abrading machine comprising a frame, a pair of rollers carried by the frame at the front and rear ends thereof, an abrading belt movable over the rollers, means carried by the frame for actuating the rollers, a pressure member carried by the frame between the rollers and arranged to hold the lower run of the belt out of a plane tangent to the lower sides of the rollers, a support for the rear end of the frame arranged in the rear of the rear roller to hold the roller and the portion of the belt thereon off the surface being finished whereby the lower run of the belt rests on the work and a handle arranged at the rear end of the frame above said rear end support and between the lateral sides of the frame, the front end of the frame being unsupported except by the intermediate run of the belt on the surface being finished.

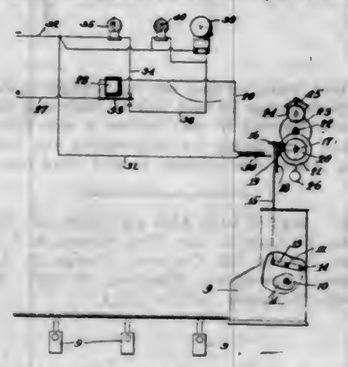
1,695,091. VENTILATING SCREEN. HARRY H. EVERHARD, Canton, Ohio. Filed July 19, 1927. Serial No. 206 866. 9 Claims. (Cl. 156—14.)



8. A corner for a metal frame made of strip metal having a box channel formed at its outer edge portion, there being a cut-out miter in the inner edge portion of the strip extending across the strip to the box channel portion, the channel being bent at said mitered points and the side walls of the channel being folded inward at said bends.

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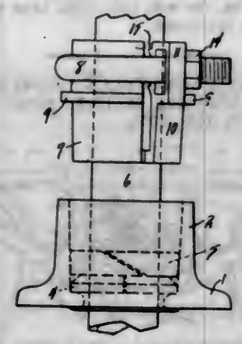
1,695,092. WATCHMAN'S DELINQUENCY ALARM. EDWARD F. GRIGER, Chicago, Ill., assignor to International Time Recording Company of New York, Binghamton, N. Y., a Corporation of New York. Filed Apr. 4, 1925. Serial No. 20,612. 7 Claims. (Cl. 161—23.)



1. In a system of the class described, the combination of circuits which are continually excited under normal conditions, means in one of said circuits for indicating their condition, time controlled means in the other of said circuits for opening both of said circuits, means controlled by one of said circuits and said last named means for closing a third circuit, and indicating means in said third circuit to indicate the condition thereof.

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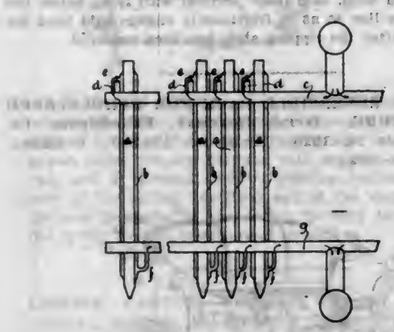
1,695,093. TUBING SUPPORT. ELLIS GREEN, Tulsa, Okla., assignor of one-half to L. A. Green, Tulsa, Okla. Filed June 24, 1926. Serial No. 118,329. 6 Claims. (Cl. 166—14.)



1. A tubing support comprising a combined tubing ring and stuffing box, a spreader supported in said ring and provided with a V-shaped upper side, a packing ring mounted on said spreader, slips mounted on a well tubing and provided with a peripheral rib adapted to rest on the upper edge of said stuffing box and said slips being adapted to engage said packing ring to force the same down on said spreader for sealing purposes, and means for binding said slips on said tubing.



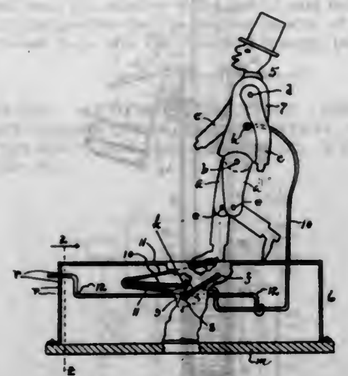
1,695,094. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL SILK. NICOLAS BENOIT GRILLET, Neuilly, France, assignor to Société pour la Fabrication de la Soie "Rhodiaseta," Paris, France. Filed Sept. 24, 1926, Serial No. 137,627, and in France Oct. 1, 1925. 6 Claims. (Cl. 18—8.)



1. In the manufacture of artificial threads by "dry spinning", means for adjusting uniformly the temperature of the gaseous atmosphere in all the cells by means of temperature-controlling elements connected in parallel and identical for all the cells, means being provided for producing a fall of pressure, identical in each temperature-controlling element, by devices, interchangeable but not individually adjustable, identical for all temperature-controlling elements, causing a substantial loss of head thereat, the said temperature-controlling elements of individual cells being connected in parallel between main piping designed for a rate of flow of the temperature-controlling fluid greatly in excess of that required, so as to render the loss of head in said pipings negligible.

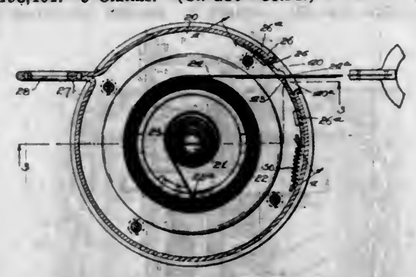
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1,695,095. MECHANICAL TOY. GEORGE N. HALL, Los Angeles, Calif. Filed Apr. 29, 1925, Serial No. 26,798. Renewed Apr. 26, 1928. 1 Claim. (Cl. 46—40.)



In a mechanical toy, a support, a revoluble shaft journalled on the support, a ratchet wheel rigidly mounted on the shaft, an angular operating-bar engaging the ratchet-wheel and extending upwardly through the support, resilient means for maintaining normal engagement of the operating-bar with the teeth of the ratchet-wheel, a display object movable with said bar, the teeth of the ratchet-wheel being of varying lengths for causing the operating-bar to move at varying distances at each rotation of the shaft, and a rock-lever engaging the operating-bar and adapted to be adjusted for disposing the operating-bar at selected distances radially of the ratchet-wheel.

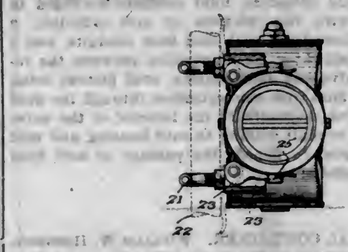
1,695,096. VEHICLE TOWING DEVICE. JOHN W. HANSEN, Chicago, Ill. Filed May 23, 1927. Serial No 193,401. 9 Claims. (Cl. 280—33.14.)



1. A vehicle towing device comprising in combination, a casing adapted to be attached to one of the vehicles; a stud fixed in the casing, a hollow spool mounted rotatably on the stud; a spring coiled in the spool cavity secured at its inner end to the stud and at the outer end to the spool, whereby it is adapted to be coiled by the rotation of the spool in one direction and to react for rotating the spool in the opposite direction; a flexible metal towing strap adapted to be coiled on the spool and having the inner end secured thereto for being so coiled by the rotation of the spool in said opposite direction, the outer end of the strap being extended out through the periphery of the casing, and means carried by said outer end for engaging the other vehicle.

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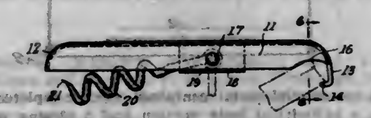
1,695,097. HOSE NOZZLE. MILTON H. HART, Hartford, Conn. Filed Aug. 10, 1923. Serial No. 656,727. 1 Claim. (Cl. 248—29.)



A hose nozzle comprising, in combination, a base member, similar lateral hooks rigidly mounted on opposite sides of the base member in spaced parallel relation and projecting in the same direction beyond another side of said base member for engagement with a support, supporting bars rigid with said opposite sides of the base member and cam levers pivoted on the supporting bars and engageable with the support to draw the hooks into firm engagement with said support.

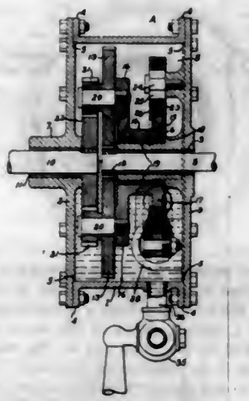
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1,695,098. BOTTLE-OPENING IMPLEMENT. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Dec. 30, 1926. Serial No. 157,894. 4 Claims. (Cl. 65—48.)



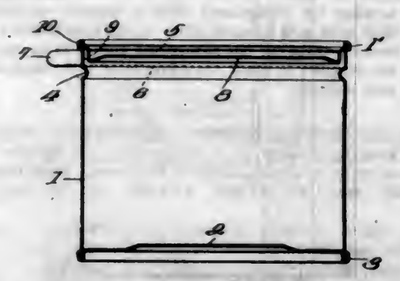
1. A foldable corkscrew comprising a channel shaped handle of U-shaped cross section having parallel sides and closed ends, a split tube intermediate the length of said handle, a wire corkscrew having a shank provided with a coiled eye at one end, a rivet passing through said handle and tube on which the eye is pivoted, and a longitudinal cam slot in said tube for holding the cork-screw rigidly when extended at a right angle thereto and to be accessible when folded lengthwise of said handle.

1,695,099. VARIABLE-SPEED DEVICE. EUGENE S. HIGHT, Peoria, Ill. Filed Jan. 2, 1925. Serial No. 188. 2 Claims. (Cl. 74—34.)



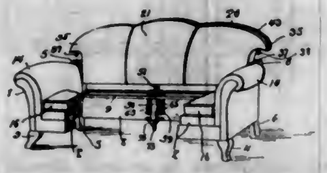
1. A variable speed device comprising a housing, a drive shaft, a driven shaft, planetary gearing whereby motion may be transmitted from said drive shaft to said driven shaft, a rotatable member associated with said planetary gearing, an eccentric associated with said rotatable member, a pivoted eccentric strap cooperable with said eccentric, and fluid-controlled means cooperable with said pivoted eccentric strap for retarding the operation thereof, said fluid-controlled means comprising a pair of oppositely disposed cylinders, pistons arranged for reciprocation within said cylinders, fluid conduits arranged in communication with the interiors of said cylinders, a three-way valve associated with said fluid conduits, and a fluid conduit establishing communication between the interior of said valve and said housing, said pistons being adapted to force fluid from said cylinders through the fluid conduits associated therewith to the interior of the valve and through the conduit leading to said housing and said valve being adapted to impede the passage of said fluid through said conduits.

1,695,100. METAL CONTAINER. WILLIAM W. HODGSON, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed June 17, 1925. Serial No. 37,750. 2 Claims. (Cl. 220—54.)



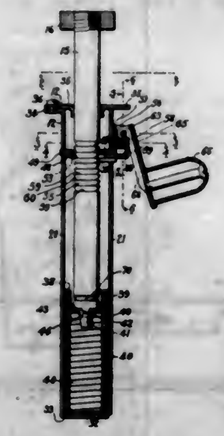
1. A commercial metal container when completed comprising a cylindrical body portion and a closing end secured thereto by a double seam, said body portion having an inwardly projecting semi-circular bead in the wall thereof, said bead being spaced from the upper end of the body portion and beginning at a point in the cylindrical wall and extending continuously on the arc of a circle inwardly, upwardly and outwardly and terminating in said cylindrical wall, said body having parallel score lines between the bead and the upper end thereof forming a ripping strip having a projecting tongue to aid in tearing the metal along the score lines, one of said score lines being disposed just below the double seam and the other just above the upper edge of said bead, said closing end having a depressed portion providing an inset vertical wall, the diameter of which is slightly greater than the inner diameter of said bead, said inset vertical wall lying below the upper score line so as to frictionally engage said bead for reclosure after the ripping strip has been removed.

1,695,101. REVERSIBLE BACK FOR UPHOLSTERED FURNITURE. IRVING HOFFMAN, Philadelphia, Pa. Filed July 24, 1926. Serial No. 124,590. 6 Claims. (Cl. 155—183.)



1. A chair or sofa comprising a body forming a seat, posts rigidly secured to the body at the rear corners of the seat, a back positioned between said posts, a shaft upon said body positioned parallel with said posts upon which shaft said back is mounted, means permitting said back to be rotatably mounted relatively to said posts, means whereby said back is adapted to be raised or lowered relatively to the body, and fastening devices upon said posts and said back adapted to interlock when said back is depressed.

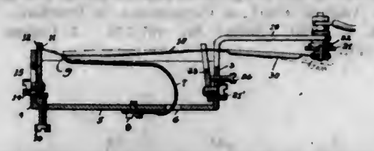
1,695,102. BEARING FOR REVERSIBLE FURNITURE BACKS. IRVING HOFFMAN, Philadelphia, Pa. Filed Dec. 20, 1926. Serial No. 155,829. 6 Claims. (Cl. 155—183.)



1. A bearing member for a reversible back of an article of furniture, comprising a casing adapted to be rigidly secured to the body of the furniture, a shaft slidably and rotatably mounted in said casing upon which said back is mounted, a follower plate slidably mounted in the casing, means associated with the shaft and the follower plate tending to engage the shaft when in a certain radial position, means for holding the follower plate against rotation in the casing and a spring for supporting said follower plate.

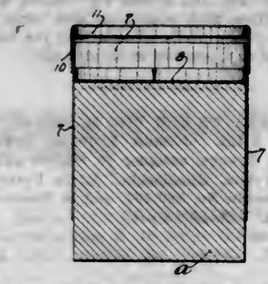


1,695,103. THERMOELECTRIC SWITCH. ARLEY U. HOOK, New Washington, Ohio. Filed May 16, 1927. Serial No. 191,854. 3 Claims. (Cl. 200—138.)



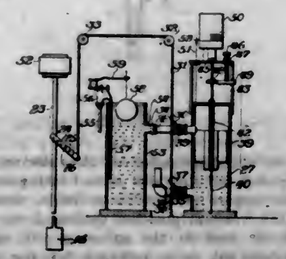
1. A thermal switch having a spring fixed at one end and free at the other, the free end carrying a contact, and a support between the ends of the spring, the spring being bowed under tension between said support and the fixed end, and a thermal element bearing against the bowed part of the spring, the fixed end of the spring being adjustable crosswise of the spring to vary the pressure of the spring against the thermal element.

1,695,104. CARTON. BURTON L. HUNTLEY, Minneapolis, Minn., assignor to Speedpak Dispenser Corporation, Minneapolis, Minn., a Corporation of Delaware. Filed Oct. 4, 1926. Serial No. 139,385. 2 Claims. (Cl. 229—7.)



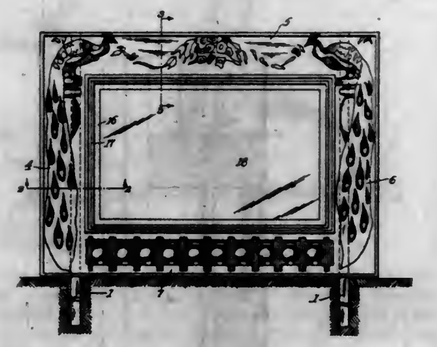
1. A carton comprising a cylindrical body open at both ends, and cap-like covers detachably telescoped around and onto the ends of said cylindrical body, at least one of said covers comprising an annular rim portion telescoped onto the exterior of the end of said body and having a displaceable disc-like portion capable of being readily forced from said rim into and through said body.

1,695,105. AUTOMATIC CONTROL MEANS FOR QUENCHING COKE. CHARLES HYMAN, Gary, Ind. Filed Jan. 7, 1924. Serial No. 684,872. 2 Claims. (Cl. 137—78.)



1. The combination with a water main having a master valve, of a pilot valve having an inlet connection with the main and outlet connections leading to opposite sides of the master valve, a solenoid connected to the pilot valve, a float chamber, supply and outlet valves for the float chamber, means actuated by the solenoid for alternately opening and closing the valves of the float chamber, a float in the float chamber, a switch for controlling the solenoid, and means actuated by the float for controlling the switch.

1,695,106. OUTDOOR ADVERTISING SIGN. GORDON S. JOHNSON, Wheaton, Ill., assignor to General Highways System, Incorporated, Chicago, Ill. Filed June 30, 1924. Serial No. 723,356. 5 Claims. (Cl. 40—125.)



1. A sign having supporting posts arranged at each side thereof and including a sign board, and a separate border for said sign board overlying and concealing said posts.

1,695,107. THERAPEUTIC IMPLEMENT. FRANZ KAHL, Berlin, Germany, assignor of six-tenths to Willi Landau, Berlin, Germany. Filed July 20, 1927, Serial No. 207,205, and in Germany Nov. 24, 1926. 6 Claims. (Cl. 174—177.)

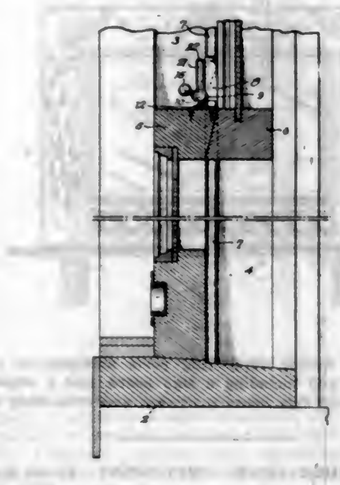


1. A nasal treatment implement comprising a handle, two sockets pivoted to said handle in juxtaposition, a low voltage heating resistance applicator in each socket and means for connecting said sockets to a source of current.

1,695,108. WINDOW FASTENER. LOUIS FREDERICK KLOOZ and MANNING F. HATCHER, Pittsburgh, Pa. Filed Nov. 10, 1926. Serial No. 147,429. 2 Claims. (Cl. 292—228.)

1. The combination with upper and lower sliding window sashes and a parting strip having a notch about midway of its length, of a bearing member mounted on the upper rail of the lower sash, a substantially L-shaped latching member having an arm pivotally mounted in the bearing member for movement about a horizontal axis, and having another arm arranged beyond one end of said bearing member and adapted to slide along the parting

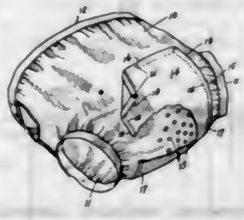
strip, or to extend through the notch of the latter, to engage one wall of said notch for preventing the lower sash being raised, the extremity of said last mentioned arm being milled to wedgingly engage a surface of the upper



sash, and the portion of this surface engaged by the milled face being entirely concealed by the parting strip, with the exception of the portion visible through said notch, and a handle connected to the latching member.

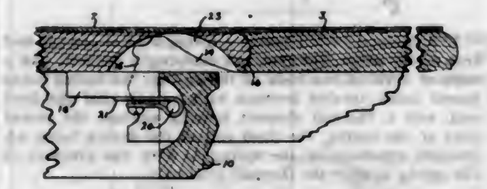
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1,695,109. WATERPROOF BABY PANTS. ROSE KOSLOFF, Jamaica, N. Y. Filed July 22, 1927. Serial No. 207,586. 3 Claims. (Cl. 128—288.)



1. A pair of waterproof baby pants comprising a body portion of non-absorbent waterproof material which includes spaced leg openings, the bottom between said openings being perforated; and an additional and unperforated bottom portion, also of non-absorbent waterproof material, underlying said first-mentioned bottom at only approximately the crotch portion of said pants to provide a pocket between said bottoms for the reception of absorbent material; said underlay having its opposite side edges securely attached to the body portion throughout an extent which retains said absorbent material firmly against all the perforations, and the end portion of said underlay being provided with means for detachably securing it to the body portion

1,695,110. EXTENSION-LEAF CONSTRUCTION FOR PERMANENT-TOP TABLES. GEORGE W. KNICK, Los Angeles, Calif., assignor to Barker Bros., Incorporated, Los Angeles, Calif., a Corporation of Delaware. Filed Aug. 7, 1926. Serial No. 127,771. 5 Claims. (Cl. 45—118.)



3. In a table, a top having an apron thereon provided with a slot, an extension leaf for said top, a block fixed to said leaf and extending through said slot when said leaf is in position for use, and means for hinging said block in operative position with respect to said apron whereby said leaf may be swung under said top and the butt end of said block rotated to a position to fill said slot.

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1,695,111. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL SILK. JOSEPH EDOUARD GUSTAVE LAHOUSSE, Lyon, France, assignor to Societe pour la Fabrication de la Soie "Rhodiaseta," Paris, France. Filed May 6, 1927, Serial No. 189,197, and in France May 20, 1926. 1 Claim. (Cl. 18—8.)



Apparatus for the spinning of cellulose derivatives, comprising a spinning cell provided with heating means, and a condensation apparatus for the solvents, comprising a tube placed in a vertical position connected to the upper and to the lower part of the spinning cell, and, at its lower end, connected to a receiver for the condensed liquid.

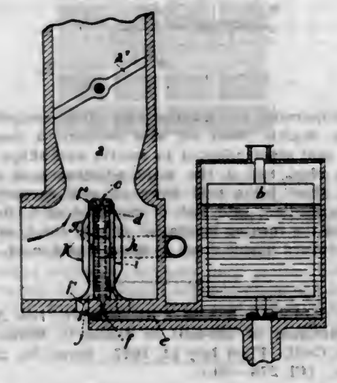
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1,695,112. CARBURETOR. GEORGES LAMOUREUX, Puteaux, France. Filed Dec. 1, 1922, Serial No. 604,865, and in France Dec. 6, 1921. 5 Claims. (Cl. 261—121.)

1. A carburetor with automatic regulation, comprising a central tube wherein a liquid fuel level is maintained during normal operation, a calibrated orifice at one end there-



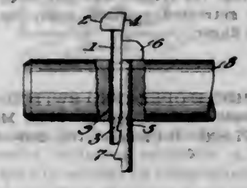
of communicating with the float chamber, air inlet holes provided in the central tube, a single orifice of substantially the same size as said first-named orifice formed at



the other end of the central tube, and means for bringing the external air at atmospheric pressure to the air inlet holes of the central tube.

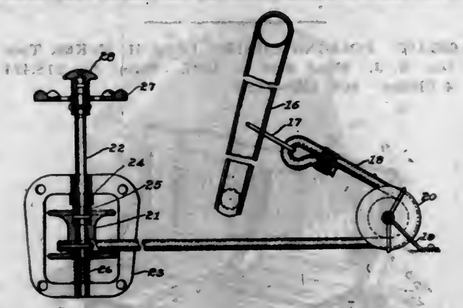
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1,695,113. SELF-LOCKING COTTER PIN. EDMOND W. LANGTON and AARON O. DAWSON, Richmond, Va. Filed June 15, 1927. Serial No. 198,940. 2 Claims. (Cl. 74—8.)



1. A self-locking cotter pin, for use with a part to be pinned having a hole, said pin composed of two complemental parts, one part having a shank terminating at one end in a head and having at its other and leading end a notch, and the other part having at one end a head and at its other and leading end an inclined projection extending toward the notch, the part having the inclined projection being inserted fully in the hole in the part to be pinned, and the part having the notch thereafter inserted in said hole with its notch facing the inclined projection on the other part and driven home, the notched part when so driven riding over the inclined projection and slipping back and underneath the inclined projection to effect an interlocking engagement of the two parts and spreading the leading ends of the two parts into fixed position in the hole.

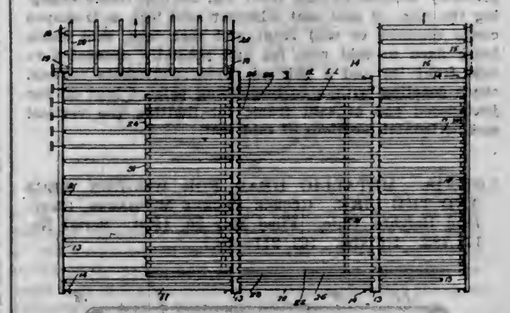
1,695,114. AIRPLANE. CLIFFORD J. LEISY, Cleveland, Ohio, assignor to The Glenn L. Martin Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 29, 1927. Serial No. 222,739. 4 Claims. (Cl. 244—29.)



1. In an airplane, a control pedal, a resilient cord attached to said pedal, a winding drum to which the opposite end of said cord is attached, means for turning said drum and for latching it in adjusted position, and means for releasing said drum instantaneously.

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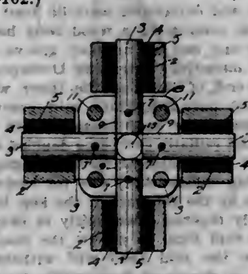
1,695,115. CONVEYER. JAMES LOCKHART, Painesville, Ohio, assignor to The Coe Manufacturing Company, Painesville, Ohio, a Corporation of Ohio. Filed June 2, 1927. Serial No. 195,921. 14 Claims. (Cl. 198—20.)



1. In a transfer table, an article supporting frame, a transfer carriage adapted to successively advance articles upon said supporting frame, means for actuating said carriage, a main drive shaft, means for connecting said drive shaft to said carriage actuating means to move the carriage forward and backward, and means for automatically disconnecting the carriage actuating means from said drive shaft when said carriage has returned to its initial position.

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1,695,116. UNIVERSAL JOINT. HUGH C. LORD, Erie, Pa. Filed Mar. 13, 1926. Serial No. 94,433. 8 Claims. (Cl. 64—102.)



1. In a universal joint, the combination of a fork having bearing sleeves at its ends; pins extending through

the sleeves toward the center of the fork; rubber inserts between the sleeves and pins, said inserts being locked with the sleeves and pins; a block having grooves engaging the pins; and means clamping the pins in the grooves.

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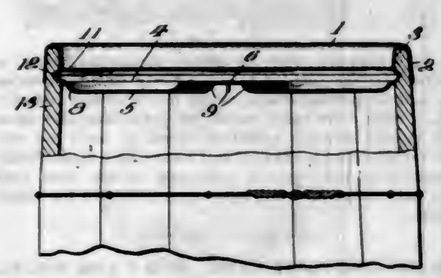
1,695,117. FOLDING CHAIR. LOUIS H. MCKEE, Trenton, N. J. Filed Sept. 9, 1927. Serial No. 218,424. 4 Claims. (Cl. 155—142.)



1. In a folding chair of the character stated, a front leg, a rear leg pivotally secured thereto, a seat member pivotally secured to said front leg, an end frame engaging the edge of said seat adjacent said legs, a U-shaped clevis common to said front and rear legs, said clevis being fixed to said rear leg and pivotally connected to said front leg and a pair of spaced abutments on said clevis coacting with a corresponding pair of lugs on the juxtaposed end of said frame for limiting the vertical and horizontal positions of said seat.

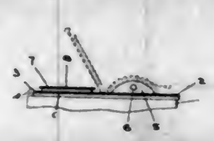
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1,695,118. METALLIC HEAD FOR WOODEN KEGS AND THE LIKE. GEORGE EUGENE MITTINGER, Cleveland Heights, Ohio. Filed May 26, 1926. Serial No. 111,783. 1 Claim. (Cl. 217—76.)



An attachable and detachable metallic head for wooden kegs and the like comprising a wood body having at its inner side near one end an annular groove, a metallic head having an outwardly extending U-shaped periphery embracing said end of the keg, the inner walls of the U-shape expanded outwardly into said groove and the horizontal portion of the head provided with a plurality of downwardly and radially extending doubled closely compressed ribs with their adjacent walls in engagement, the said walls forming substantially one for sustaining pressure from within by the contents of the keg, both ends of the ribs gradually tapered downwardly in easy curves in a line with the said head to permit the head to be depressed, whereby the said head will withstand inward pressure and can be depressed downwardly for the purpose of withdrawing the expanded portion from the groove formed in the said keg.

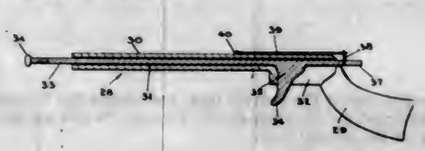
1,695,119. METHOD OF MAKING TILE CLAY PRODUCTS AND APPARATUS THEREFOR. HERBERT A. SHUGART, Santa Ana, Calif. Filed Oct. 24, 1927. Serial No. 228,264. 5 Claims. (Cl. 25—43.)



1. An apparatus for making roof tiles, comprising a support, a flexible sheet on said support, a removable frame on said sheet adapted to receive and shape a slab of plastic clay, and a tile mold adjacent said slab of clay, said sheet being held down on said support along a line intermediate said slab of clay and said tile mold, whereby on the turning movement of said sheet, said slab of clay is turned upside down to rest on said mold.

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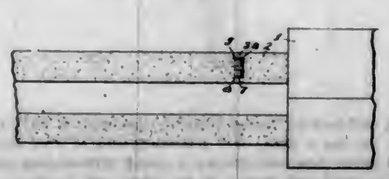
1,695,120. GAME. RAYMOND C. PARENT, Los Angeles, Calif., assignor of one-half to James C. Willard, Los Angeles, Calif. Filed July 11, 1927. Serial No. 204,805. 1 Claim. (Cl. 273—69.)



In a game, a striking implement comprising a gun-like structure having a barrel with a longitudinal bore, a stock connected thereto having a lateral slot entering the said bore, a rod slidable in the bore and extending therethrough forming a cue, a trigger rigidly connected to the rod and extending through the slot,, a spring connected to the barrel and to the rod, the slot forming a limiting movement in both directions for the trigger, thereby giving a limit to the projection of the rod and to the tension of the spring, the trigger and rod being adapted for retention in a retracted position solely by engagement with a person's finger.

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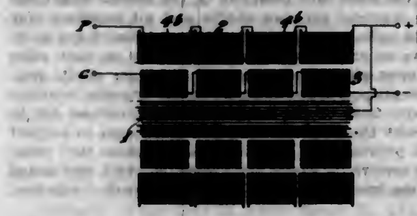
1,695,121. VEHICLE-OPERATED SWITCH. ANDREW O. PETERSON, Santa Barbara, Calif. Filed Mar. 23, 1927. Serial No. 177,820. 6 Claims. (Cl. 200—85.)



1. A switch comprising in combination a container adapted to be embedded in the ground in the path of travel of a vehicle, a tubular casing within said container, a switch upon which said casing is supported, having reciprocal push-buttons for making and breaking an electrical circuit respectively, a pair of rods extending downwardly through said casing, contacting with said push-buttons, a pair of horizontal arms above said container contacting with said rods whereby a vehicle may selectively be pressed by virtue of its weight, said rods to operate said switch.



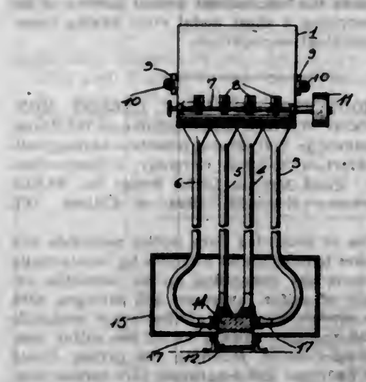
1,695,122. ELECTRICAL TRANSFORMER. CHARLES FRANCIS PHILLIPS, Blackheath, London, England. Filed Feb. 24, 1928, Serial No. 256,748, and in Great Britain Oct. 18, 1926. 1 Claim. (Cl. 175—356.)



In an electrical transformer for use in radio receiving or transmitting apparatus with its primary winding connected to the positive, and its secondary winding to the negative pole of the high tension battery, an electrolytic shield connected to said primary winding, said primary winding being wound in sections, each section being surrounded on its sides adjacent other sections and adjacent the secondary by a section of the said shield, said shield sections being each connected to a section of the primary.

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1,695,123. MACHINE FOR VENEERING BRICK. EMMETT V. POSTON, Springfield, Ill. Filed June 21, 1927. Serial No. 200,348. 8 Claims. (Cl. 25—1.)

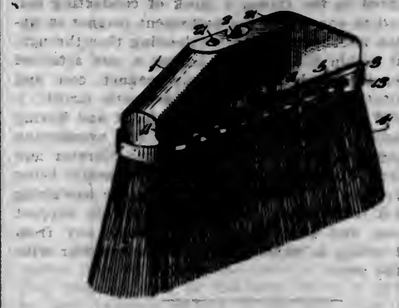


1. A machine for texturing brick comprising a die for the formation of a plastic brick body, a conveyor for the support and movement of the plastic body, a hopper for the supply of granular texturing materials, a plurality of relatively high gravity conducting tubes adapted to conduct by gravity, said texturing materials from said hopper at right angles to said plastic body; said tubes terminating at the lower ends in a jet registering with the exposed faces of the brick body; said jets each provided with fluid nozzle for moistening said materials, whereby when controllably released from the hopper, said granular texturing materials will wall from relatively great heights, become moistened, and by the force of the fall, become substantially embedded into the exposed plastic brick faces for forming a veneer therefor.

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1,695,124. BRUSH. WILLIAM REESE, Philadelphia, Pa., assignor to Elder & Jenks, a Firm composed of Jonathan Jenks and Franklin R. Maxwell, Philadelphia, Pa. Filed Sept. 2, 1926. Serial No. 133,137. 2 Claims. (Cl. 15—192.)

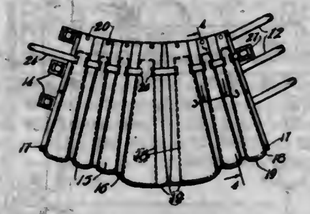
1. In a device of the character stated, the combination of an integral socket plate having a longitudinal central channel therein, a plurality of rows of intermediate tuft receiving sockets extending longitudinally of said plate on either side of said channel, transverse end sockets of greater width and having walls of greater height than those of said intermediate sockets, tufts of bristles seated in all of said sockets and adhesively secured therein, and



a cement filling the interstices between the roots of said bristles, said longitudinal channel of said socket plate being adapted for the reception of fastening devices to secure said plate to a handle.

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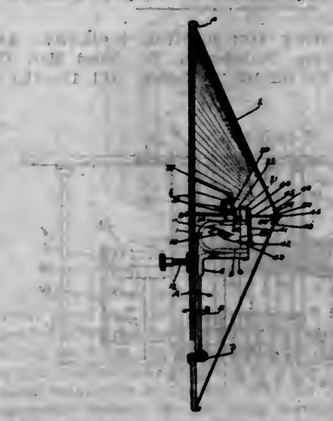
1,695,125. SWIMMING DEVICE. THEODOR RENSING, Kansas City, Mo. Filed Nov. 14, 1927. Serial No. 233,099. 1 Claim. (Cl. 9—21.)



A swimming device comprising a band or cuff adapted to be removably clasped to the ankle, a plurality of foldable and expansible pocket elements carried by said band or cuff and adapted to open in the rearward swimming stroke of the ankle, and an elastic member encircling the upper ends of said elements and acting to maintain the same normally in folded position.

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1,695,126. LOUD SPEAKER. JOHN E. SEDERHOLM, St. Paul, Minn., assignor to American Hoist & Derrick Company, St. Paul, Minn., a Partnership composed of F. J. Johnson and W. O. Washburn. Filed Feb. 23, 1928. Serial No. 256,341. 10 Claims. (Cl. 179—115.)

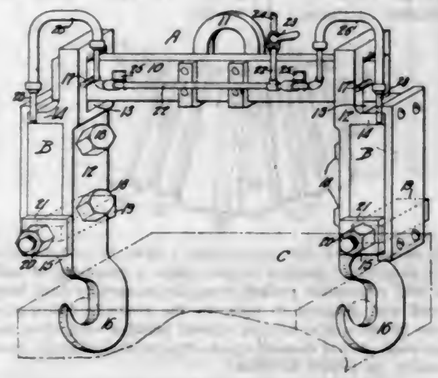


8. A support, a cone having its periphery engaged against the support, a frame having a resilient portion at-

tached to the support to permit a swinging motion of the frame, the point of attachment being laterally of the axis of the cone, means for swingingly adjusting the frame against its resilient action, a U-shaped permanent magnet secured to the frame, a block of conducting material secured to one leg of the permanent magnet in upright position and having a bore extending therethrough, a coil fitted within the bore and having a core attached to the other leg of the magnet, said magnet, core and block constituting a partially closed magnetic circuit, a relatively stiff vibrator attached to the block and having a portion opposed to the bore and core and overlapping the bore, and a stiff connection linking the vibrator and cone, the axes of the cone, core, coil and connector being substantially coaxial, and electrical means for energizing the coil, said frame being disposed between the support and the cone, and adjustment toward and away from the support acting to adjustably space the vibrator with respect to the core.

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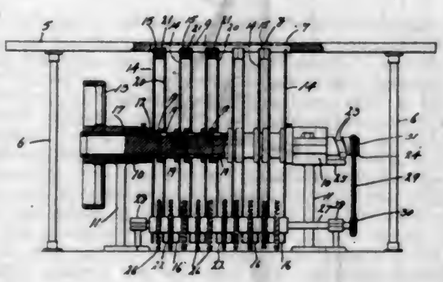
1,695,127. APPARATUS FOR VIBRATING OBJECTS. JOHN T. STONEY and KLEMENS PURWIN, Cleveland, Ohio, assignors to The Stoney Foundry Engineering and Equipment Co., Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 12, 1921. Serial No. 500,193. 8 Claims. (Cl. 259—1.)



1. An apparatus of the character described, comprising a hook mechanism having at least one leg to engage an object and an upper supporting structure, and means mounted upon said leg for creating vibrations therein.

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1,695,128. MACHINE FOR PICKING POULTRY. ANDREW O. VESTINE, Philadelphia, Pa. Filed Mar. 17, 1928. Serial No. 262,345. 6 Claims. (Cl. 17—11.)



2. In a machine for picking poultry, a hollow shaft having longitudinal slots, an inner shaft slidably mounted in the hollow shaft, members fixed on the hollow shaft in spaced relation, other members slidably mounted on the hollow shaft and located between the first mentioned ones, pins passing through the inner shaft and projecting through the slots into positions of the second mentioned members whereby the two shafts and all members may revolve in unison and each of said second mentioned members move to and from the other members on both sides thereof upon sliding movement of the inner shaft, gripping elements positioned at diametrically opposite locations on opposite faces of the members whereby one set are in contact with the other set are separated, means to support a fowl in proximity to gripping members where they close, means to revolve the shafts and associated parts, and means to slide the inner shaft to and fro during each revolution.

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1,695,129. SPRING SUPPORT. FRANK M. VOGAN, Canton, Ohio, assignor of one-half to William H. Cavnah, Canton, Ohio. Filed June 26, 1924. Serial No. 722,504. 6 Claims. (Cl. 5—263.)



1. In combination with a bed having slats and a spring, a support for raising and compressing the longitudinal, central portion of the spring, said support resting upon the slats, engaging the longitudinal central portion of the spring and comprising a sheet metal strip having transverse and longitudinal corrugations.

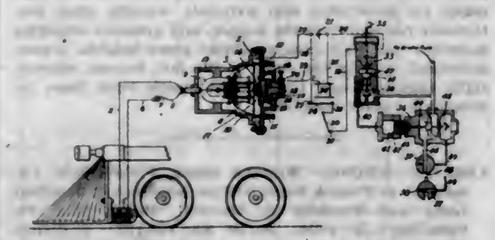
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1,695,130. PRODUCTION OF PURE CARBON MONOXIDE. GUSTAV WIETZEL, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 9, 1925. Serial No. 68,010, and in Germany Nov. 21, 1924. 4 Claims. (Cl. 23—204.)

4. The process of producing pure carbon monoxide and a mixture of pure hydrogen and nitrogen by catalytically treating an impure gas comprising carbon monoxide, organic compounds of sulfur, hydrogen and nitrogen with steam so as to convert a portion of the carbon monoxide to carbon dioxid and substantially all of the sulfur compounds to hydrogen sulfid, removing the carbon dioxid and sulfuretted hydrogen and separating pure carbon monoxide from a mixture of hydrogen and nitrogen.

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1,695,131. TRAFFIC-CONTROLLING SYSTEM. ARDA G. WILLIAMSON, Carnegie, Pa., assignor to Pittsburgh Train Control Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Nov. 16, 1918, Serial No. 262,797. Renewed May 11, 1928. 46 Claims. (Cl. 246—63.)

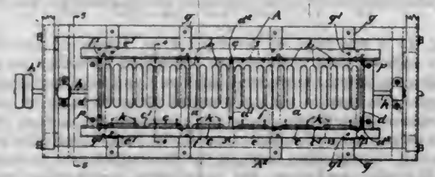


2. A system of train control comprising: a train, traffic rails, a charged direct-current circuit on the train of a given value, a track circuit normally completed through and responsive to traffic conditions of the rails, an induced-current circuit and translating device on the train responsive to the track circuit, for normally lessening the value of the direct current and which upon a change in traffic conditions admits of an increase in value of said direct current, and a traffic governing means held in a normal position so long as the value of the direct current is below a predetermined point and which moves to another position when said value increases above said predetermined point, and means for causing said traffic governing means to move to said other position upon the rupture of said direct-current circuit.



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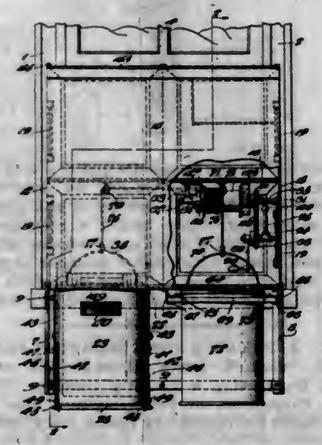
1,695,132. APPARATUS FOR THE MANUFACTURE OF ROOFING TILES. FREDERICK ALFRED WILSON, London, England. Filed July 27, 1926, Serial No. 125,191, and in Great Britain July 27, 1925. 17 Claims. (Cl. 25—43.)



1. In the manufacture of roofing tiles, a mold adapted to form a plurality of tiles at one operation, and means movable across the top of said mold for dividing up the molded tiling before removal from said mold.

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1,695,133. COMBINATION SANITARY REFRIGERATOR AND WASTE-DISPOSAL APPARATUS. ARTHUR H. ALLEN, Philadelphia, Pa. Filed Apr. 21, 1926. Serial No. 103,514. 10 Claims. (Cl. 220—1.)

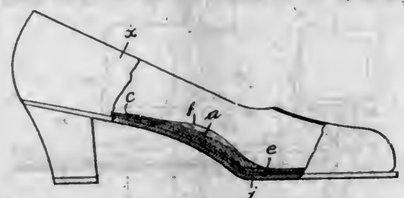


1. A waste disposal cabinet, of the character stated, comprising an upper food storage compartment, a lower waste disposal compartment having an opening in the bottom thereof, a pendant waste receptacle detachably supported beneath said cabinet and having its upper end in alignment with and in proximity to said opening, and means to raise and lower said receptacle.

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1,695,134. INSERTABLE PAD FOR SHOES. ALBERT F. BANCROFT, West Newton, Mass. Filed Jan. 5, 1928. Serial No. 244,625. 3 Claims. (Cl. 36—71.)

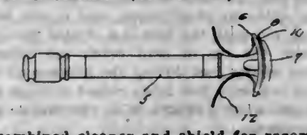
1. An insertable filler pad for a shoe having the adjacent portions of the shank and forepart thereof disposed in definite angular relation, said pad being of soft, flexible material and constructed to extend from the rear end portion of the shank part onto the rear end portion of the fore part of the shoe bottom and to extend laterally onto the portion of the upper adjacent the inner edge of the shank part, the shank engaging portion of the bottom surface of the pad being disposed obliquely to the bottom surface of the fore part engaging portion and meeting



in a definite vortex line arranged to coincide with the vertex line of the angular space between the shank and fore part portions of the shoe when in position therein, and the top surface of the pad being transversely rounded and tapering to a thin edge at all points, for the purposes set forth.

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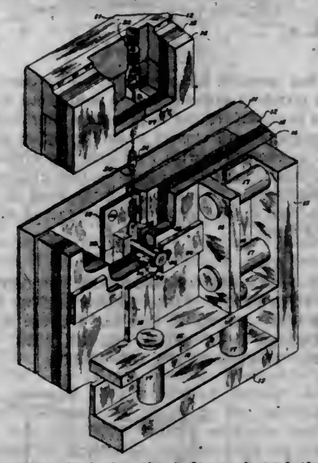
1,695,135. SAFETY-RAZOR CLEANER. WILLIAM BERCHIELLI, Albany, N. Y. Filed Apr. 28, 1928. Serial No. 273,583. 2 Claims. (Cl. 30—12.)



1. A combined cleaner and shield for razors comprising a sheet of substantially rigid material having one edge arranged for attachment to the razor and having openings for receiving the fingers of the blade guard whereby to wipe the fingers free of lather upon removal of the cleaner from the razor.

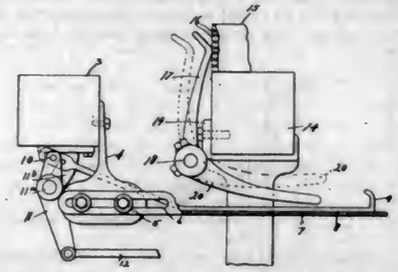
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1,695,136. AUXILIARY LOCK. GEORGE H. BOCKIUS, Canton, Ohio, assignor to Diebold Safe & Lock Company, Canton, Ohio, a Corporation of Ohio. Filed Sept. 28, 1926. Serial No. 138,184. 4 Claims. (Cl. 109—3.)



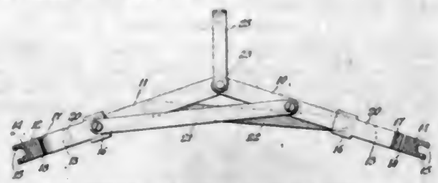
1. An auxiliary lock for the bolt work and the like of vault doors and the like, including a fusible chain suspended upon the door, a weight suspended by the chain, a bolt work for the door, and a pin mounted upon the weight and normally extending laterally therefrom in alinement with parts of the bolt work for permitting normal operation thereof, the pin being movable to dog off and prevent operation of the bolt work when the chain is fused or shattered.

1,695,137. LOOM FABRIC PROTECTOR. SAMSON BORGNIS, Philadelphia, Pa. Filed Nov. 16, 1926. Serial No. 148,661. 2 Claims. (Cl. 139—346.)



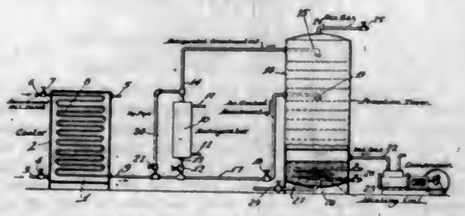
1. The combination with a loom including a breast beam, a lay, a shuttle box and a loom stop mechanism, of a hanger carried by the breast beam, a running stand adjustably mounted on the hanger, a reach rod connected with a portion of the stop mechanism and having its free end slidably mounted in the running stand, a toe at the outer end of the reach rod and having an inturned upper end, brackets secured to the lay, a loom protecting rod journalled in said brackets, a finger mounted on said rod and coacting with the shuttle box, and a foot secured to the protecting rod with the free end of said foot overlying the reach rod, the toe of said reach rod being in the path of travel of the foot during the absence of a shuttle in the shuttle box, said foot being raised through the medium of the finger when a shuttle is in the shuttle box so as to pass over the toe.

1,695,138. HOG GAMBREL. WILLIAM W. BRAINARD, New York, N. Y. Filed Dec. 12, 1923. Serial No. 680,093. 4 Claims. (Cl. 294—80.)



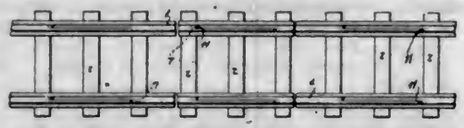
1. A hog gambrel comprising pivotally connected arms, gripping members associated with said arms, said gripping members being bifurcated to provide a plurality of fingers, means movable with respect to said gripping members and adapted to cooperate with said gripping elements for effecting a relative movement between said gripping members and elements, said means being in the form of links pivotally connected to said gripping elements and said pivotally connected arms.

1,695,139. PROCESS OF COMBINED ABSORPTION AND FRACTIONATION FOR RECOVERING GASOLINE FROM GAS. EDWIN R. COX and DEXTER A. CUSHMAN, Los Angeles, Calif. Filed Aug. 31, 1926. Serial No. 132,720. 11 Claims. (Cl. 183—114.5.)



1. The process of combined absorption and fractionation for recovering gasoline from natural gas, comprising cooling an absorbent oil to substantially air temperature, refrigerating part of this oil to a considerably lower temperature, flowing the refrigerated oil downwardly through an absorption tower, flowing the air temperature oil downwardly through a lesser portion of the absorption tower and flowing compressed wet gas without precooling upwardly through the absorption tower.

1,695,140. RAIL JOINT. STEPHEN DÉRI and MICHAEL DEAK, Fairmont, W. Va., assignors of one-fourth to Roza Nohavicska, Fairmont, W. Va. Filed Feb. 8, 1928. Serial No. 252,844. 2 Claims. (Cl. 238—232.)
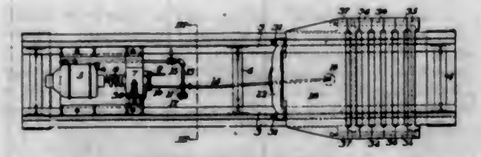


1. In a rail joint of the scarf type, a pair of meeting rail ends of twin construction assembled by either longitudinal or lateral movement, each rail end being cut away at one side upon a central vertical plane forming an end extension, interfitting connections between the ends of the rail extensions and adjacent rail ends, connecting belts for the rail ends passing through the overlapped web portions of the rail extensions, the interfitting connections comprising a lug on the end of the rail extension and a recess in the end of the rail head facing the cut away side, and screw bolts for anchoring the lugs in the recess.

1,695,141. SHAVING BRUSH. RAFAEL D. DE VILLEGAS, Allston, Mass. Filed Apr. 15, 1927. Serial No. 184,019. 1 Claim. (Cl. 15—194.)



In a shaving brush, the combination of a tuft of bristles comprising bristles folded over and tied together at the folded portion, and a handle consisting of a single hollow member of yielding rubber having a neck portion provided with a restricted opening to receive said tuft of bristles, said neck being of such a diameter as to grip the tuft and hold it in place and being deformable to permit the removal of the tuft and replacement of a similar tuft.

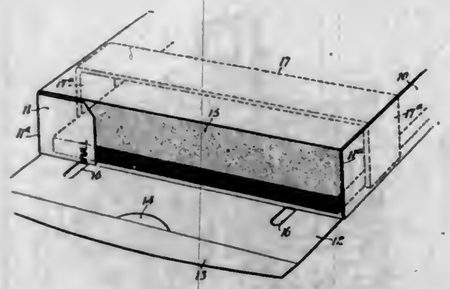
1,695,142. APPARATUS FOR RESHAPING ANNEALING BOXES. CARL V. DODGE, Bellevue, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 13, 1925. Serial No. 50,009. 12 Claims. (Cl. 153—48.)



1. Apparatus for straightening annealing boxes, comprising relatively movable box engaging members adapted to engage opposite points of a box to be straightened, said members having box engaging surfaces of different effective dimensions, one of said members comprising a plurality of removable and replaceable sections adapted to vary the distance between said members, substantially as described.

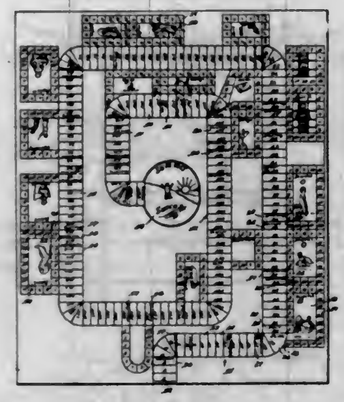


1,695,143. BOX. BENJAMIN L. DRAPEAU, Jersey City, N. J., assignor to Standard Abrasive Co., Jersey City, N. J., a Corporation of New Jersey. Filed June 9, 1927. Serial No. 197,683. 1 Claim. (Cl. 206—44.)



A cardboard box of the class described including an end closure flap having windows arranged in its lower edge, said flap adapted to be opened to permit withdrawal of sheet material through the end of the box, and detachable legend bearing side tabs folding inwardly under the end flap, said windows adapted to visually indicate the quantity of sheet material stacked in the box when the box is laid on its side subsequent to the detachment of the legend bearing tabs.

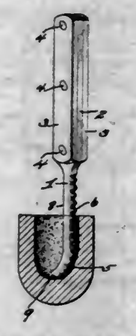
1,695,144. GAME. EARL EDWARDS, Santa Ana, Calif. Filed May 25, 1927. Serial No. 194,082. 4 Claims. (Cl. 273—134.)



1. A game having a path leading from a starting point to a goal, with a series of stations thereon, some of said stations having words thereon indicating good characteristics with a statement to advance a playing piece to certain other stations, and having a plurality of groups of two words, each group having words in antithesis one to the other, the said latter words being spaced apart a number of stations and indicating that a playing piece landing on stations having either of such pair of words the playing piece may either advance or go back in accordance with a good or a bad characteristic of the word.

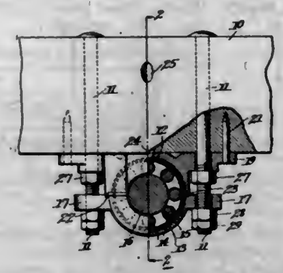
1,695,145. PIPE-BOWL KNIFE. FRED L. FRASER, Philadelphia, Pa. Filed July 20, 1927. Serial No. 207,238. 1 Claim. (Cl. 131—13.)

A pipe bowl cleaning knife having a handle and provided with a blade to engage with the inner surface of the bowl said blade being curved to conform to the bottom of the bowl, so that either edge of the blade may scrape against the bottom, one edge of the blade throughout the length of the edge and the curved extremity being toothed, the other edge of the blade being sharpened, the blade being of arcuate formation in cross-section,



whereby after the toothed edge has scraped against the inner surface of the bowl in moving the blade in one direction, the blade may rock with the convex surface of the bowl, so that the sharpened edge may scrape against the surface of the bowl, and thereby smooth said inner surface.

1,695,146. CASING FOR ANTIFRICTION BEARING. DANIEL F. GOOD, Waynesboro, Pa., assignor to Frick Company, Waynesboro, Pa., a Corporation. Filed Aug. 10, 1927. Serial No. 212,087. 1 Claim. (Cl. 308—207.)

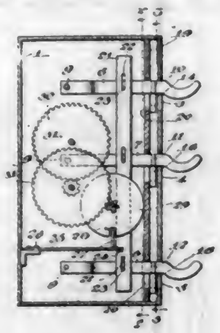


The combination of a side rail, an upper bearing member beneath said side rail, a lower bearing member beneath said upper bearing member, said bearing members being formed with substantially semi-cylindrical recesses for enclosing a substantially cylindrical bearing, said recesses having a central lubricant channel, a passage for lubricant formed in said rail communicating with said lubricant channel, said bearing members being provided with ears at each side, the upper bearing member having perforated extensions at the outer edges of said ears, pins extending through said perforations into said side rail for holding the upper bearing member in proper position, the ears at the sides of said bearing members being provided with openings, bolts extending through said rail and through said openings fastening the bearing members to the side rail, said bearing members comprising castings molded to exact size, substantially as set forth.

1,695,147. VANADIUM COMPOUND. HANS HAHL and WALTER KROPP, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Filed July 10, 1925, Serial No. 42,831, and in Germany Sept. 17, 1924. 4 Claims. (Cl. 260—11.)

1. As an anti-syphilitic, a salt of an inorganic base with an organic tetravalent vanadyl carboxylate.

1,695,148. ELECTRIC SIGNAL-TRANSMITTING SWITCH. DEWEY L. HARRISON, Fort Smith, Ark. Filed Aug. 7, 1926. Serial No. 127,908. 5 Claims. (Cl. 200—36.)



1. In an electric signal transmitting switch, a circuit including a pair of spaced contacts, a switch lever movable to and from circuit closing position between and in engagement with said contacts, and means including a motor driven train of gearing and a control disk set in operation by movement of the lever to circuit closing position and effective to hold the lever thus for a predetermined period and then move the lever to circuit broken position.

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1,695,149. FENCE-WIRE SPACER AND HOLDER. ROY HOUSTON, Seattle, Wash. Filed June 11, 1926. Serial No. 115,409. 1 Claim. (Cl. 140—50.)

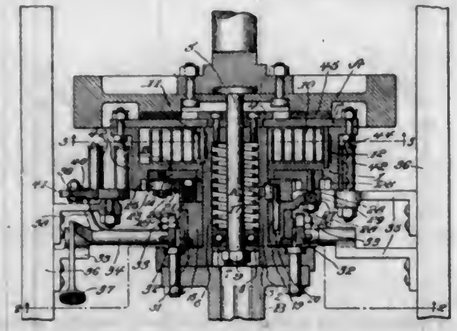


A fence wire spacing device comprising a rod, wire engaging elements adjustably spaced along the rod, each of said elements comprising a body having a rod receiving opening extending longitudinally therethrough, an offset hook extending from the top of the body at one side edge of the latter and spaced from the rod receiving opening and defining a wire receiving seat at the top of the body between the hook and the rod, and the bill of the hook extending downward and defining a second wire receiving seat within the hook, a downwardly and inwardly inclined side edge extending along the body from the second wire receiving seat, and a foot engaging member at the lower end of the rod.

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1,695,150. CLUTCH. NELSON LE VAN, Battle Creek, Mich. Filed Oct. 11, 1926. Serial No. 140,971. 3 Claims. (Cl. 192—55.)

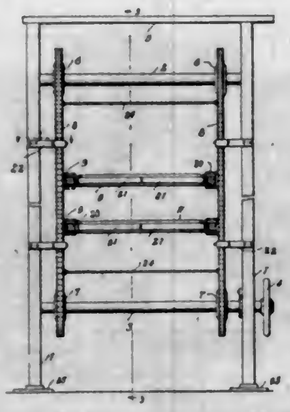
1. In combination with a drive member and a driven member, a flexible clutch between the two members comprising a spring drum, a hub on which the drum is rotatably mounted, means for causing the drum to move with the hub when the said hub is moved longitudinally, a coiled spring in the drum having one end connected with the drum and the other end with the hub, spring means for holding the hub and drum in a position where they will engage the drive member, means for connecting the hub to the driven member, means for shifting the parts out of engagement with the drive member, friction



means associated with the hub and engaging the drum, means for rendering said means inactive when the hub is shifted to release the parts from the drive member and means for locking the hub and drum together if the driven member should rotate faster than the drive member.

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1,695,151. CLOTHES DRIER. JOHN MACFARLANE, Riverside, Calif. Filed Apr. 13, 1927. Serial No. 183,455. 5 Claims. (Cl. 211—121.)



3. A device of the class described comprising upper and lower shafts, sprocket wheels fixed to the respective shafts, sprocket chains trained around said wheels, plates connected with the chains, boxes supported by the plates and including side plates and rear plates, arcuate bars pivotally connected intermediate their ends to the side plates, arms having their ends fixed to the ends to the bars, springs connecting the back plates and arms, slats having their ends fixed to the first named plates, said arms being normally engaged with the slats.

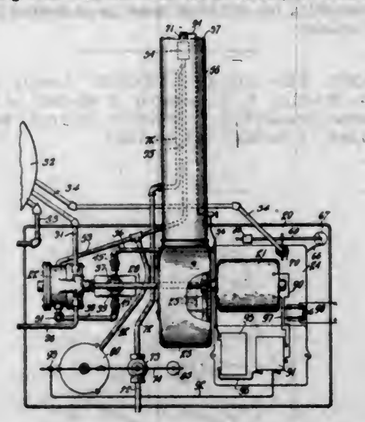
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1,695,152. OIL BURNER. CHARLES A. MARTINDALE, Anderson, Ind., assignor to The Reliable Machine Company, Anderson, Ind., a Corporation of Indiana. Filed Apr. 24, 1926. Serial No. 104,485. 3 Claims. (Cl. 158—28.)

1. An oil burner comprising a fan, a motor at one side of the fan, a shaft carrying the rotor of the motor and



said fan, a geared pump at the opposite side of the fan comprising a gear on said shaft, and a second gear in mesh therewith, a shaft offset from the first the second gear being mounted on the offset shaft, a rotor also



on the offset shaft forming one element of an atomizing pump, a pump underneath the second-named shaft, a plunger for said pump, and a cam on said offset shaft acting directly on said plunger, substantially as set forth.

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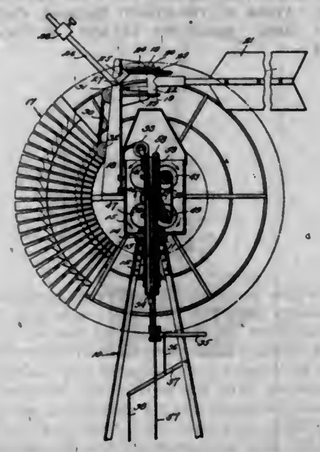
1,695,153. SANITARY-NAPKIN HOLDER. LETTIE Z. NELSON, St. Joseph, Mo. Filed July 21, 1927. Serial No. 207,418. 3 Claims. (Cl. 128—289.)



1. A sanitary napkin holder for holding a napkin when in use and provided with a pocket for carrying a spare napkin for emergency use.

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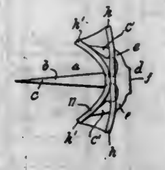
1,694,154. WINDMILL. FRANK R. OWENS, Beaver Crossing, Nebr. Filed Sept. 2, 1927. Serial No. 217,208. 1 Claim. (Cl. 74—14.)



In a pumping mechanism, a casing, a driven shaft journaled transversely through said casing, a vertically movable pump rod slidable centrally of said casing, a plurality of shafts journaled transversely of the casing, sprockets on certain of said shafts, chains trained about the corresponding sprockets, gear connections between the driven shaft and said other shafts, and means connecting the chains with the pump rod for operating the latter, comprising arm members connected with corresponding links of the chains, a cross head connected with said arm members, and a connecting rod pivoted upon the cross head and connected with the pump rod, vertically arranged guides within the casing, and a collar slidable along the guides and connected with said connecting rod.

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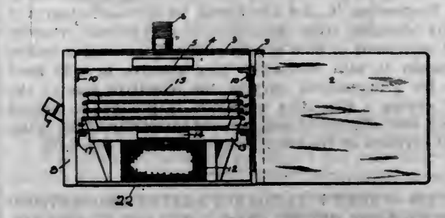
1,695,155. STAPLE. GEORGE A. PARKER, Brockton, Mass. Filed Feb. 2, 1927. Serial No. 165,330. 2 Claims. (Cl. 173—319.)



1. A staple having pointed tapering shanks of differing lengths and of arrow head form provided with contracted necks immediately adjacent to and connecting the same with the head of the staple.

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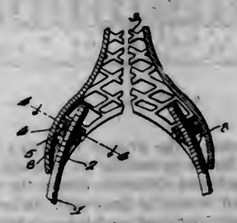
1,695,156. SEPARATOR. CHARLES ALONZO PILANT, New Orleans, La. Filed Feb. 11, 1928. Serial No. 253,713. 4 Claims. (Cl. 210—149.)



1. A separator comprising a casing, an inlet arranged on the casing, tracks formed in the casing, a baffle arranged on one of the tracks and slidable thereon, a retaining basket slidable on one of the tracks, baskets having foraminous surfaces adapted to nest in each other and in the first basket, cloth adapted to be interposed between the foraminous baskets and a door arranged on the casing.

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1,695,157. FINGER RING. HERMAN QUAST, Arlington, Minn. Filed June 10, 1927. Serial No. 197,904. 2 Claims. (Cl. 63—16.)

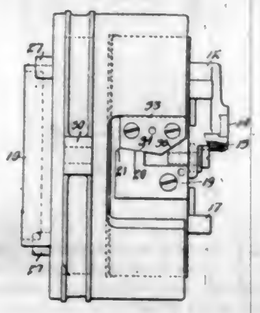


1. A ring of the character described comprising a shank disposed in ring formation and having threaded ends, a mounting formed with openings in its sides, ears arranged in pairs and disposed upon opposite sides of said mounting

adjacent said openings, a nut mounted between each pair of ears and being adapted to receive the threaded ends of said shank and said nuts being provided with recesses in their periphery to receive an implement passed through the side openings to rotate said nuts for adjusting the shank with respect to said mounting.

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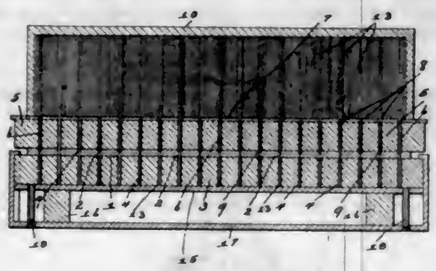
1,695,158. DIE HEAD FOR CUTTING TAPERED THREADS. HARRY T. SHEARER, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed May 5, 1925. Serial No. 28,195. 5 Claims. (Cl. 10—100.)



3. In a die head, a head body, chaser holders pivoted on the head body, tangential chasers on the chaser holders, an oscillatory ring mounted on the head body, said ring being pivotally connected to the chaser holders, an axially movable second ring about the head body, a collar on said second ring for moving it, and abutments on the oscillatory and axially movable rings having cam engagement whereby axial movement of said second ring will produce a rotary movement to said oscillatory ring relative to said head body for progressively varying the operative size of the head during a threading operation to produce a tapered thread, said abutments being spaced outwardly of the cylindrical surfaces of the rings; substantially as set forth.

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1,695,159. BRUSH-FILLING APPARATUS AND METHOD OF FILLING BRUSH PADS. WILLIAM T. SHERMAN, Troy, N. Y., assignor to Henry L. Hughes Co. Inc., Troy, N. Y., a Corporation of New York. Filed June 21, 1921. Serial No. 479,230. 15 Claims. (Cl. 300—21.)

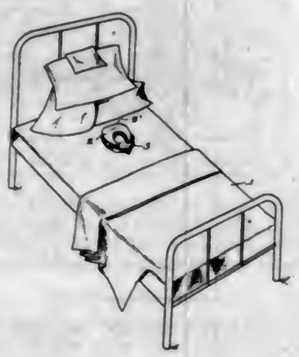


1. In brush making, the process of fitting bristles into apertured brush backs consisting in passing the bristles into a gaging aperture disposed above the brush back, allowing the gaged bristle to drop with its lower end free of any substantial frictional resistance, and guiding the free lower end of the bristle into an aperture of said brush head.

15. A brush filling device comprising a perforated supporting member adapted to support a perforated brush member thereon with the perforations thereof aligned with the perforations of said supporting member, and a vertically movable stop-plate beneath said supporting member and adapted to be disposed at at least two different elevations for controlling the extent of insertion of bristles into said brush member.

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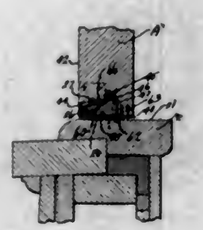
1,695,160. PAD AND BED VESSEL. AMELIA C. SHERRAN, Brooklyn, N. Y., assignor of one-half to Ruth E. Sherran, Brooklyn, N. Y. Filed Oct. 10, 1927. Serial No. 225,348. 5 Claims. (Cl. 4—113.)



1. A combined pad and bedvessel, comprising a supporting pad structure formed with a recess in one side and a flat portion on the other side, the material of the pad adjacent said recess presenting substantially facing arms, and a pan structure formed with a body acting as a container, said body conforming in shape to said recess and formed with notches for receiving said arms, said pad being sufficiently flexible to permit said body to be inserted and removed without dislocating the pad.

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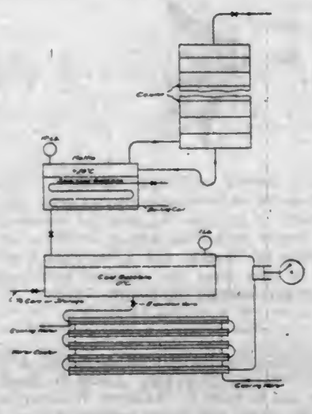
1,695,161. WEATHER STRIPPING FOR WINDOWS AND DOORS. AYERS F. THOMPSON, Sunland, Calif. Filed June 21, 1926. Serial No. 117,552. 8 Claims. (Cl. 20—66.)



1. In a weather strip construction the combination of an attaching strip, a guard strip hinged to the attaching strip, and closure attaching means for lifting the guard strip.



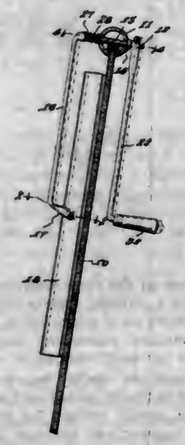
1,695,162. MANUFACTURE OF NATURAL GASOLINE. HAROLD E. THOMPSON, Clendenin, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Apr. 12, 1924. Serial No. 706,167. 2 Claims. (Cl. 196—11.)



1. In the manufacture of natural gasoline, the steps of forming a liquid mixture of hydrocarbons; producing therefrom a liquid gasoline and a vaporous portion bringing the vaporous portion to a temperature below the normal boiling point of the liquid gasoline; and cooling the liquid gasoline by means of the vaporous portion.

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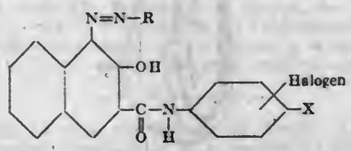
1,695,163. WINDSHIELD CLEANER. JOHN G. TRUESDELL and WILLIAM J. O'CONNELL, Colorado Springs, Colo. Filed July 11, 1927. Serial No. 204,963. 1 Claim. (Cl. 15—235.)



A windshield cleaner, comprising a carrier arranged upon one side of a windshield, a wiping element movable within the carrier and engaging the windshield, scraper elements secured to the carrier upon opposite sides of the wiping element and normally spaced from the windshield, a shaft mounted for rocking and axial movement in the frame of the windshield, an arm extending from one end of the shaft and having its outer end positively pivoted to the carrier and slidingly connected with the wiping element, an operating handle secured to the other end of the shaft and means to force the shaft in a direction to space the scraper elements from the windshield.

1,695,164. AZO DYE. HERMANN WAGNER, Hochst-on-the-Main, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 12, 1923, Serial No. 618,710, and in Germany Feb. 24, 1922. 12 Claims. (Cl. 260—95.)

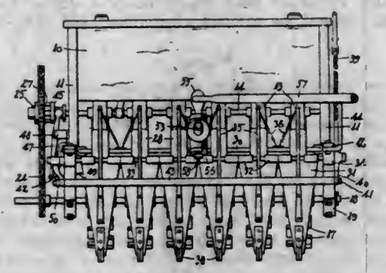
1. As new products, the azo dyes of the general formula:




wherein X represents an alkyl- or alkyloxy-group, and wherein R represents an aryl residue which may be further substituted.

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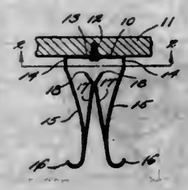
1,695,165. SEED PLANTER AND PACKER. HENRY ADOLPH WILBERG, Valley City, N. Dak. Filed June 25, 1926. Serial No. 118,524. 1 Claim. (Cl. 111—59.)



In a planter, a frame, a transverse rock shaft carried by the frame, transversely spaced chutes mounted loosely on said shaft for swinging movement and extending downwardly and rearwardly to engage the ground, means for delivering seeds to said chutes, individual spring means for said chutes to swing them downwardly, a transverse stop rod carried by said shaft and extending across said chutes in front of same to limit the downward movement of the chutes, and means for turning said shaft to adjust said rod.

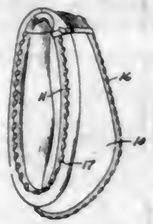
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1,695,166. HOLDER. HARRY T. WILSON, Easton, Pa. Filed Aug. 22, 1927. Serial No. 214,746. 2 Claims. (Cl. 24—259.)



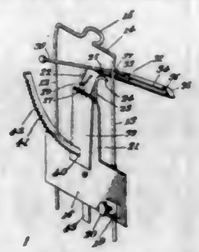
1. In a device of the character described, a base having means associated therewith for attaching the same to a wall or the like, arms extending at substantially right angles to said base and converging throughout a portion thereof toward each other, said arms having fingers struck from the surface thereof and extending between the arms toward each other, the ends of said fingers being bent away from each other.

1,695,167. HORSE COLLAR. JOE M. ANGEL, Pauls Valley, Okla. Filed Oct. 7, 1927. Serial No. 224,689. 2 Claims. (Cl. 54—19.)



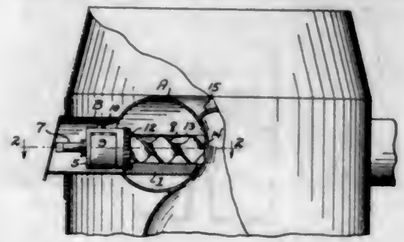
1. In a horse collar, a cover for the body and rim, said cover comprising an inner section and an outer section secured together at the outer edges of the rim and body of the collar, and providing continuous inner and outer sections, said sections being slit, and a lace passed through said slits for lacing the sections together along the hame seat of the collar.

1,695,168. MOUTH GAG AND TONGUE HOLDER. BENJAMIN FRANKLIN BELL, Sr., Tyler, Tex. Filed Aug. 16, 1927. Serial No. 213,328. 3 Claims. (Cl. 128—15.)



1. An instrument of the kind described comprising a frame having a jaw holding means, a plate adjustably carried by said frame, a standard on said plate having jaw engaging means, a tongue depressing lever carried by said standard, a curved rack bar fitted through said standard and having a notched portion, a pivoted locking bar on the plate for engaging in the notch of said rack bar, and a looped member having a terminal engaging with said rack bar on the opposite side of the standard.

1,695,169. FURNACE CLEANER. ALBERT BREST, Newcastle, Pa. Filed Apr. 11, 1928. Serial No. 269,280. 4 Claims. (Cl. 126—102.)



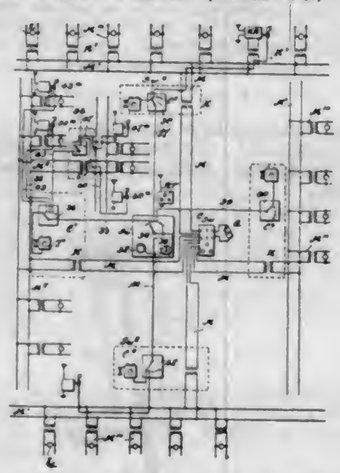
1. A device for cleaning a radiator of a furnace comprising a ring-shaped plate placed in the annular chamber of the radiator and rotatably supported therein, a supporting member removably held in the clean-out opening of the furnace, a spiral rotatably supported by said member and extending over the plate and adapted to remove the material from the plate means for rotating the spiral and the plate and a deflector member supported by the supporting member and contacting with a portion of the spiral.

1,695,170. RESPIRATOR. CHARLES LAURENCE BURDICK, London, England. Filed Mar. 5, 1926, Serial No. 92,626, and in Great Britain Aug. 19, 1925. 1 Claim. (Cl. 128—146.)



A respirator having separated chambers to surround the nose and mouth of the wearer respectively, inlet means permitting entry of air into the chamber surrounding the nose, outlet means permitting exit of air from the chamber surrounding the mouth, and a non-return valve permitting air to pass from the chamber surrounding the nose into that surrounding the mouth.

1,695,171. COMBINED RADIO TELEPHONE AND POWER-DISTRIBUTING SYSTEM. JAMES B. HOGE, Cleveland, Ohio, and EDWARD F. CLEMENT, Washington, D. C., assignors, by direct and mesne assignments, to Edward F. Colladay, Washington, D. C. Filed Sept. 8, 1922. Serial No. 586,842. 5 Claims. (Cl. 179—2.5.)

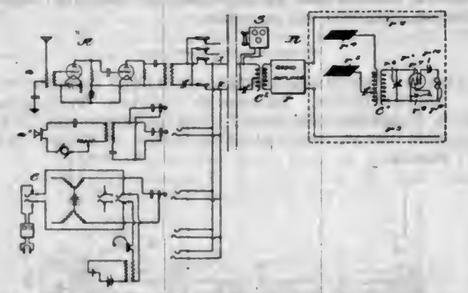


1. In a system of the class described, a power distributing station and a current supply circuit extending therefrom in a network to a plurality of consumer stations, a broadcasting station associated therewith, a radio telephone receiver at each consumer station having a detector circuit and an energizing circuit, and means for connecting said detector circuit and said energizing circuit to said current supply circuit for simultaneously supplying energizing current and message bearing current therefrom to said radio telephone, together with separate supervision circuits extending from said power distributing station and means at said station to control the same selectively to establish a supervisory relation with the radio telephone receiver at a consumer station.

1,695,172. RADIO RECEIVING INSTRUMENT. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Feb. 9, 1924. Serial No. 691,823. 2 Claims. (Cl. 179—2.5.)

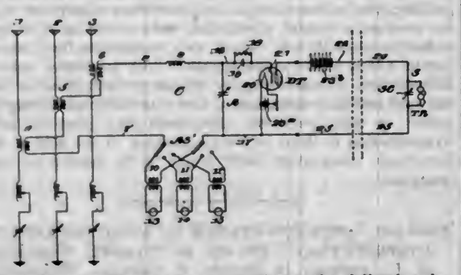
1. In a radio broadcasting exchange system, a central office and a subscriber's station with means at the central office for transmitting modulated waves of superaudio frequency, means external to the subscriber's station to receive and absorb said modulated waves and conduct them into said station, means in said subscriber's station inductively coupled to said external receiving and absorbing





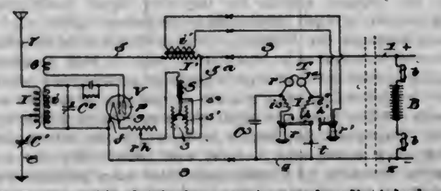
means, for receiving and amplifying said waves, output terminals for said amplifying means so arranged within said station as to constitute a pair of radiators, and a mechanically detached self-contained wave responsive device with input terminals adapted to receive and absorb the amplified waves from said radiators.

1,695,173. RADIO BROADCAST SELECTING AND DISTRIBUTING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Feb. 29, 1924. Serial No. 695,991. 4 Claims. (Cl. 250—6.)



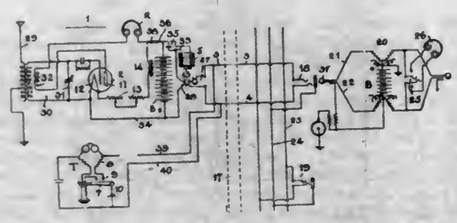
1. A broadcasting system comprising the following instrumentalities: subscribers' stations and a central station containing receiving apparatus with a tunable input circuit for selection of radio transmitting stations, means for supplying heterodyning oscillations to said circuit, a wire line extending to a subscriber's station, and a detector at the central station having its grid circuit connected to said tuned input circuit, and its plate circuit extended directly to said line, together with suitable receiving means at the subscriber's station responsive to current undulations in said plate circuit.

1,695,174. RADIO RECEIVING INSTRUMENT FOR SYSTEMS OF BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed June 18, 1924. Serial No. 720,870. 7 Claims. (Cl. 179—2.)



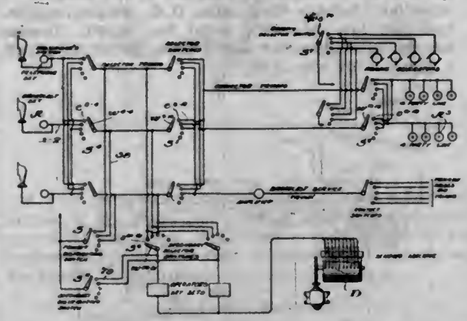
1. In a combined telephone system and radio telephone system, a pair of line wires, a central office source of current supply for said line wires, a subscriber's telephone connected to said line wires, a subscriber's radio telephone also connected to said line wires, means for supplying current from said central source to either or both of said instruments over the line wires, and automatic means for regulating the amount of current supplied to one instrument when the other is in use, said regulating means being directly responsive to changes in current flow due to change in relative resistance in the two instrument circuits and acting thereupon to produce a compensating change in the resistance of the radio telephone circuit.

1,695,175. RADIO RECEIVING STATION. HARRY F. LÖWENSTEIN, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed June 25, 1924. Serial No. 722,361. 2 Claims. (Cl. 179—2.)



1. In a combined radio receiving and telephone system, a pair of line wires, a central office source of current supply for said line wires, a subscriber's telephone of relatively low resistance connected to said line wires, a subscriber's radio receiving set of relatively high resistance also connected to said line wires, means for supplying current from said central source to either or both of said instruments over the line wires, a local booster storage battery connected across the line wires between said instruments and a current valve connected in one of said lines wires between the telephone and the radio receiving set in a manner to prevent discharge of current from said storage battery to said telephone while permitting the flow of current from said telephone to both the storage battery and the radio receiving set.

1,695,176. TRAFFIC-CONTROL SYSTEM FOR RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Apr. 10, 1925. Serial No. 22,172. 11 Claims. (Cl. 179—2.)

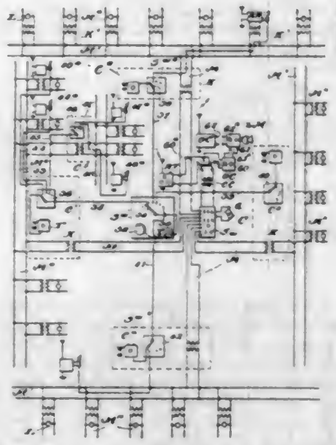


1. In a system of broadcast distribution, a central station, subscribers' stations and wire lines interconnecting them, a source of electrically transmitted broadcast signaling currents at the central station, a plurality of one-way amplifying units for said signaling currents, mechanically actuated switching links at the central station, circuit connections from said switching links to said amplifiers, said subscribers' lines and said source, respec-

tively, there being one amplifier unit per line only, and means to close said circuits when a switching operation is complete, so that the corresponding unit is automatically brought into operative condition, in such relation to its line as to amplify in the direction of said line when calling, only.

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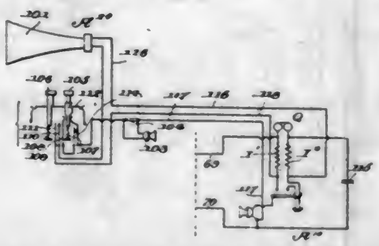
1,695,177. RADIO SERVICE METERING SYSTEM. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Original application filed Feb. 9, 1924, Serial No. 691,825. Divided and this application filed Aug. 1, 1925. Serial No. 47,548. 6 Claims. (Cl. 179—11.)



1. In a system of the class described, a power distributing station, and a current supply circuit extending therefrom a broadcasting station associated therewith, a subscriber's radiophone having a detector, two input circuits therefor and a local meter circuit, and means associated with said radiophone for connecting said radiophone circuits to said supply circuit for simultaneously supplying current therefrom to the meter and passing modulated waves from the supply circuit to one of said detector input circuits.

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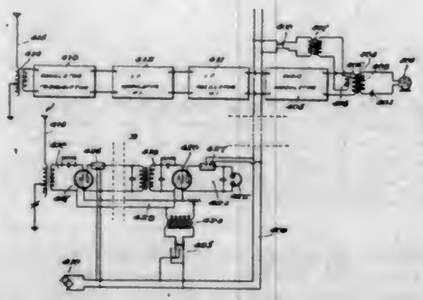
1,695,178. SELECTIVE KEY FOR RADIO SYSTEMS. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Original application filed Feb. 20, 1925, Serial No. 10,533. Divided and this application filed Aug. 1, 1925. Serial No. 47,549. 3 Claims. (Cl. 179—176.)



1. A key set comprising a set of two normally open pairs of contacts, a normally closed pair of contacts in series with said normally open contacts, unitary actuating means for all said contacts arranged upon partial movement to close said normally open contacts but upon further movement to open said normally closed contacts, tension means arranged to normally hold the actuating means in a normal position to permit said contacts to assume normal position, locking means operable upon an operating movement of the actuating means to lock the same against return movement from the partial movement position to normal, but permitting movement between the partial position and full movement position, and means for releasing said locking means.

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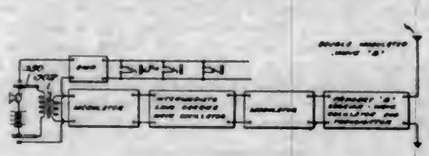
1,695,179. SECRECY SYSTEM OF RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Oct. 30, 1925. Serial No. 65,860. 5 Claims. (Cl. 250—6.)



1. The method of secret signaling which comprises controlling the action of signal transmitting apparatus so as to produce a signal modulated wave carrying also as a masking modulation one of two complementary components which when added together will produce a zero or silent wave, broadcasting the signal modulated wave with its said masking modulation, and separately supplying the other or complementary component by point to point transmission to those receiving stations, in the field of said broadcast component, with which it is desired to communicate.

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1,695,180. SECRECY SYSTEM OF RADIO BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Original application filed May 21, 1925, Serial No. 31,928. Divided and this application filed Oct. 30, 1925. Serial No. 65,861. 3 Claims. (Cl. 250—15.)



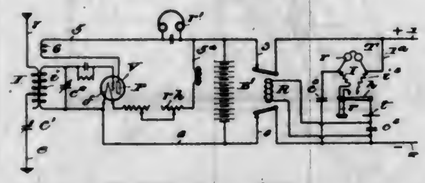
1. A broadcasting system comprising a primary station, a plurality of intermediate relay distributing stations, and a plurality of local receiving stations related to each relay station and all in permanent tune therewith, means at the primary station for imposing signal modulations on a wave of fixed intermediate frequency, means also at said stations for imposing said modulated intermediate frequency wave as a modulation upon a high frequency radio carrier wave of fixed frequency permanently alloted to the succeeding relay station or stations, means at said relay station to receive said double modulated waves from the primary station, means to detect off the intermediate frequency waves and to relay and redistribute the same in its own area by double modulation on a primary wave of the standard wave length to which its receiving stations are tuned, means at the local receiving stations for



selecting said programs by first demodulating the high frequency carrier wave received, in order to strip off the intermediate frequency wave or waves and thereafter selectively detecting the signals modulated on an intermediate frequency wave, the said intermediate frequency with its signal modulations being maintained the same from its original modulation at the primary station through the relay station or stations, to and through the subscriber's selectors.

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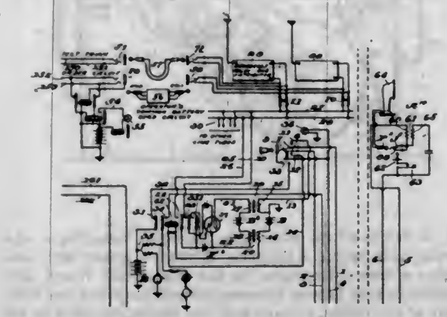
1,695,181. RADIO RECEIVING INSTRUMENT FOR SYSTEMS OF BROADCAST DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Nov. 25, 1925. Serial No. 71,454. 5 Claims. (Cl. 179—2.)



1. In a combined telephone system and radio telephone system, a pair of line wires, a central office source of current supply for said line wires, a subscriber's telephone of relatively low resistance connected across said line wires, a subscriber's radio telephone of relatively high resistance also connected across said line wires, means for supplying current from said central source at a fixed voltage to either or both of said instruments over the line wires and a booster source of current arranged to supply extra energy to the radio instrument to compensate for the drop in voltage when the telephone instrument is put in use simultaneously therewith.

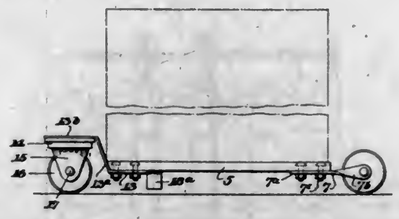
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1,695,182. TRUNKING SYSTEM FOR RADIO DISTRIBUTION. EDWARD E. CLEMENT, Washington, D. C., assignor to Edward F. Colladay, Washington, D. C. Filed Mar. 15, 1926. Serial No. 94,850. 6 Claims. (Cl. 179—2.5.)



1. In a system of radio broadcast distribution, a plurality of subscribers' stations divided into a plurality of groups, a district broadcast station having broadcast receiving apparatus and wired broadcast distributing means common to said groups, a central station for each group having receiving means for receiving the broadcast from said comon district station, amplifying means arranged to connect the receiving means of a central station with said distributing means, and amplifying means arranged to connect each subscriber's station with the receiving means at the central station of its group.

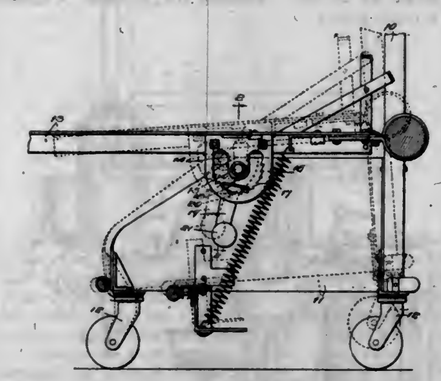
1,695,183. PORTABLE ASH-CAN TRUCK. MICHAEL J. DOWNEY, Springfield, Mass. Filed Apr. 13, 1926. Serial No. 101,823. 1 Claim. (Cl. 280—61.)



A portable truck for handling ash cans consisting of a frame having a pair of bracket arms extending rearwardly thereof, the frame consisting of a U-shaped metal channel providing side flanges, the bracket arms being secured to said side flanges, an axle mounted on the bracket arms, a pair of wheels mounted on the axle, an upwardly and forwardly extending bracket arm on the forward end of the frame, a caster bracket swiveled to the last named bracket arm, a caster wheel mounted on the caster bracket, and a cross arm secured to the frame rearwardly of the caster to limit the degree of tilting of the frame and its load, the cross arm having pendant lugs.

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1,695,184. SAFETY LOCK. ROSS J. ELLSWORTH, Woodstock, Ill., assignor to Holmes Disappearing Bed Company, Woodstock, Ill., a Corporation of Illinois. Filed Dec. 4, 1926. Serial No. 152,588. 5 Claims. (Cl. 5—167.)



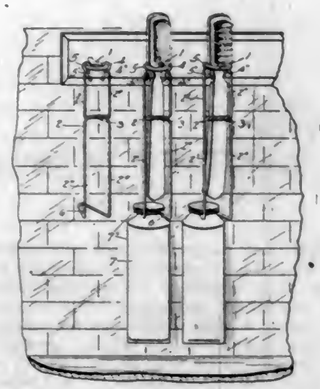
5. In a bed, the combination with a frame, of bed rails pivoted to said frame, and normally inoperative means for preventing said frame from tilting on to said rails, the said means comprising a gravity actuated pawl and ratchet mechanism on said frame and one of said rails.

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1,695,185. HOLDER FOR DENTIFRICE CONTAINER TUBES. GEORGE TAYLOR GALE, Toronto, Ontario, Canada. Filed Apr. 21, 1927. Serial No. 185,551. 1 Claim. (Cl. 248—20.)

The combination with a supporting structure and an eyed member extending therefrom, of a pair of parallel depending wire members having their upper ends turned inward to form a split eye, the extremity of the wire forming a

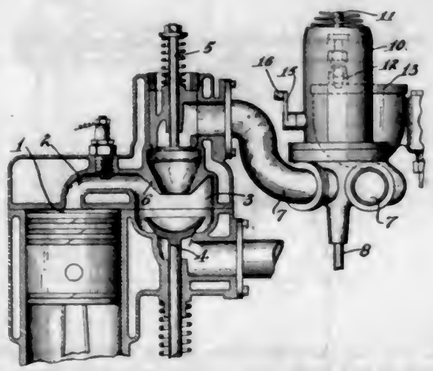
finger spaced from its adjacent parallel member to form an entrance slot to the eye and at their lower end into a right angularly turned V-shaped portion adapted to bear against



the surface of the supporting structure, and means extending between the depending wires for holding such wires together in spaced relation.

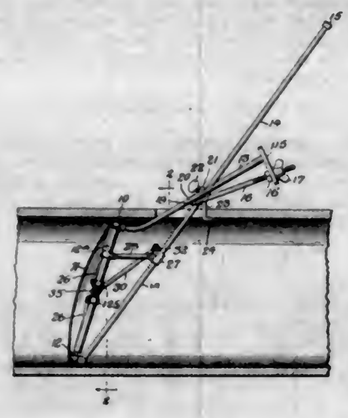
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1,695,186. COMBUSTION ENGINE. JOHN GOOD, Garden City, N. Y., assignor to Good Inventions Co., New York, N. Y., a Corporation of New York. Filed Feb. 28, 1918, Serial No. 219,579. Renewed Oct. 2, 1926. 6 Claims. (Cl. 123—191.)



1. The combination of an engine cylinder, a chamber connected thereto, the outlet from the chamber leading to the engine cylinder being above the bottom of the chamber, means for delivering a charge mixture of liquid fuel and air to said chamber, an inlet valve controlling the delivery of the mixture to the chamber and an exhaust valve in the bottom of the chamber, the said inlet valve and the body of the exhaust valve being so related that the said mixture is directed toward the face of the body of the exhaust valve and liquid fuel is deposited thereon.

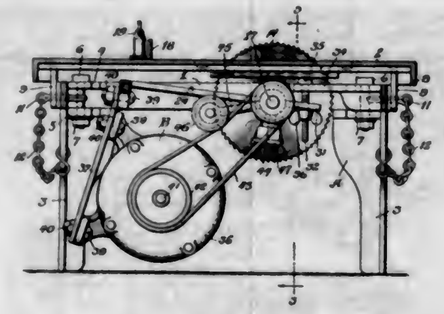
1,695,187. GAS-MAIN STOPPER. PATRICK GOODMAN, Brooklyn, N. Y. Filed Oct. 5, 1927. Serial No. 224,235. 6 Claims. (Cl. 137—76.)



1. A gas main stopper including an expansible frame having means thereon to effect a stoppage of the gas main, handle bars on said frame at an angle to the plane of the frame, expansion means for said frame operable by a longitudinal movement of one handle bar, and a brace connection between the other handle bar and said frame at approximately diametrically opposite points on the frame.

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1,695,188. PORTABLE BENCH SAW. FAY M. HENKEL, New Rochelle, N. Y. Filed Apr. 28, 1927. Serial No. 187,308. 2 Claims. (Cl. 143—35.)



1. A device of the character described, including a supporting unit having a platform thereon, a power unit comprising a frame, trunnions on the end of said frame, said supporting unit having recesses therein receiving the trunnions of the frame, a bearing on the frame, an arbor in the bearing adapted to receive a saw or other tool, spring bars secured to the frame, a motor fixed to the spring bars, a pulley on the arbor, a pulley on the motor shaft, and an endless belt connecting said pulleys.

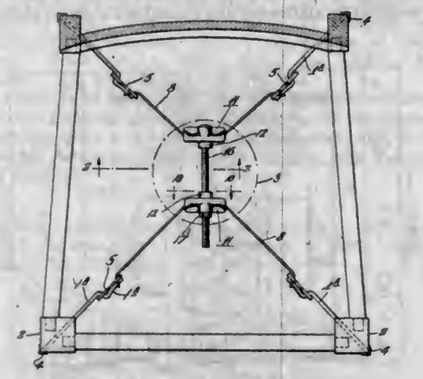
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1,695,189. FURNITURE BRACING. LUCIUS R. CLARK and ALFRED MURRAY YEOMANS, Chicago, Ill.; said Yeomans assignor to said Clark. Filed May 12, 1927. Serial No. 190,900. 8 Claims. (Cl. 155—197.)

1. Means for bracing an article of furniture comprising two endless wire members each having as its major portion



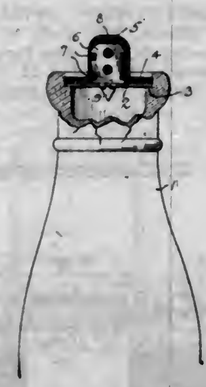
two vertically spaced V-shaped main portions presenting superposed apices, the superposed apices of one wire member being directed toward the superposed apices of the other member; four anchoring means each secured to the article of furniture adjacent to one corner of the latter and each connecting the article of furniture with the ends of two superposed arms of one wire member; each of the aforesaid wire members having the ends of its superposed loops



connected by bights respectively connected to one of the said pairs of anchoring members; and connecting means interposed between the pairs of superposed apices of the two wire members, the said connecting means comprising two strain equalizers and a bolt connecting the two equalizers, each equalizer having a substantially flat face portion at right angles to the axis of the said bolt and engaging the superposed apices of one wire member.

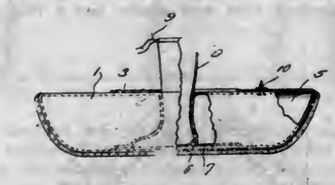
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1,695,190. MILK-BOTTLE CLOSURE. DANIEL H. KANE, Dayton, Ohio. Filed June 28, 1928. Serial No. 288,916. 3 Claims. (Cl. 215—51.)



1. In a vessel closure, a closure disc engageable with the mouth of a vessel, a vertically disposed handle tab projecting therefrom, a flat metallic insert embedded in said handle tab portion having marginal notches and perforated for anchorage engagement therein, and a dependent barbed spur carried by said insert and projecting centrally from the under side of the disc, substantially as specified.

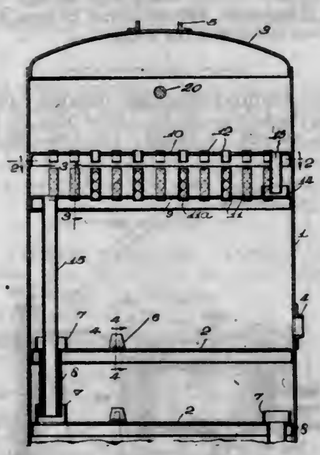
1,695,191. WATER SKATE. JOHN W. KEENE, Westport, Conn. Filed May 15, 1928. Serial No. 278,001. 2 Claims. (Cl. 9—21.)



2. In a water skate comprising an elongated inflatable body, a covering for said body, said inflatable body being provided with a foot receiving pocket, and a stiffening element interposed between the covering and the said body beneath said foot receiving pocket.

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1,695,192. VAPOR EXTRACTOR. MEINHARD HENRY KOTZENUE, Tulsa, Okla. Filed May 28, 1927. Serial No. 194,964. 1 Claim. (Cl. 261—114.)



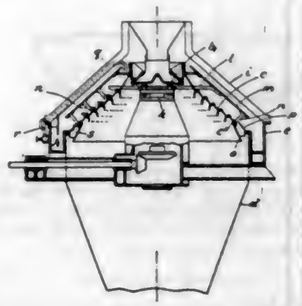
A tower for the absorption of fluids comprising a shell having gas and liquid entrance and discharge passages, spaced trays in the shell, bubbling units carried by certain of the trays, a pair of the trays being closely associated with each other, one of the pair of trays having passages therethrough, pipes rising from the passages, means in the pipes for causing the whirling movement of gases passing therethrough, the other of the pair of trays having passages with pipe connections mounted in the passages and having one end spaced from adjacent pipes in the other tray, the portion of the shell between the spaced ends of the pipes constituting a dead space where the gas passing through the whirling means loses some of its velocity.

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1,695,193. APPARATUS FOR SEPARATING SOLIDS FROM LIQUIDS. REGINALD FRANK KRALL, London, England, assignor to Woodall-Duckham (1920) Limited, London, England, a British Company. Filed Apr. 24, 1926, Serial No. 104,460, and in Great Britain Aug. 28, 1925. 6 Claims. (Cl. 210—63.)

1. A drying apparatus comprising a substantially conical screen having its axis substantially vertical and its larger end extending downwardly and adapted to be rotated about its axis, means for projecting particles of

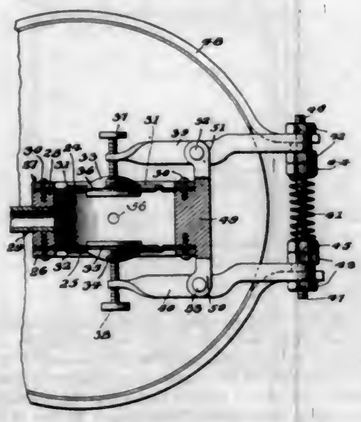
material to be dried against the inner surface of the screen, means for feeding material to the said projecting means, a hopper positioned below said screen to receive dried material leaving the lower end of the screen, a ring depending from said screen, and a ring coaxial



with and of the same diameter as said first-named ring and upstanding from the hopper with its upper edge in close proximity to the lower edge of the first-named ring and cooperating with the latter to form a clearance between the screen and the hopper.

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1,695,194. LIQUID-PRESSURE BRAKE. JOHN LANSINGER, Clarks Summit, Pa. Filed May 11, 1927. Serial No. 190,615. 3 Claims. (Cl. 188—152.)

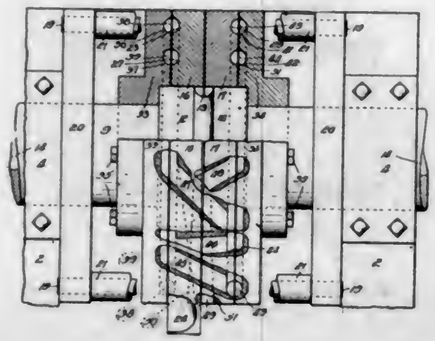


2. A liquid pressure brake, comprising a plurality of diaphragms spaced apart, a main body portion, clamping members detachably connected to the main body portion, the diaphragms being firmly held therebetween, lever arms extending from the main body portion, head members firmly held in the diaphragms, adjusting elements attached to the head members for bringing tension on the lever arms, the lever arms being pivotally mounted mounted on the body portion.

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1,695,195. BALL-FORMING MACHINE. MERRITT W. MAGANN, St. Louis, Mo., assignor to St. Louis Steel Ball Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 31, 1925. Serial No. 53,556. 12 Claims. (Cl. 80—21.)

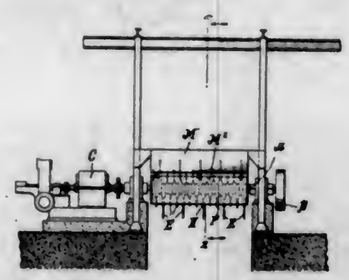
11. In a solid ball forming machine structure, a base, a pair of standards for said base, bearings at the upper ends of said standards, a drive shaft, a hollow water cooled driven shaft, gearing connecting said shafts, a peripheral grooved flange for said driven shaft, a pair of stationary die plates through which the driven shaft passes, means to prevent lateral displacement of the stationary die plates, said stationary die plates having slightly dished inner faces to permit metallic slips gathered therebetween to be discharged from therebetween, a pair of rotatable die plates fixed to the flange of said shaft for rotation therewith, an inner and an outer facial groove concentrically arranged in the inner faces of each pair of cooperating stationary and rotatable die plates to form a



pair of concentric orbital raceways for each pair of cooperating stationary and rotatable die plates, internal passages in the stationary die plates for connecting the raceways of one pair of cooperating stationary and rotatable die plates with the raceways of the other pair of cooperating stationary and rotatable die plates, a feed groove leading to one of the other raceways between one pair of cooperating stationary and rotatable die plates, a discharge passage formed between the two stationary die plates and a passage in one of the stationary die plates connecting the inner raceway thereof with the discharge passage which discharge passage cooperates with the peripheral groove of the driven shaft.

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1,695,196. CANE-CUTTING ATTACHMENT FOR MILLS. IRA MERLIS, New York, N. Y., assignor to Kelvin Engineering Co., Inc., New York, N. Y., a Corporation of Delaware. Filed Mar. 22, 1928. Serial No. 263,838. 10 Claims. (Cl. 146—110.)



2. A rotary cutter attachment for sugar cane mills comprising a shaft, a series of knives mounted radially on said shaft in staggered relation, with means, comprising elastic means, for holding said knives on said shaft, to permit a yielding twisting movement to the shank of each knife blade, thereby protecting said knife against breaking under glancing blows, when in use.



1,695,197. EMULSIFIABLE OIL. DAVID R. MERRILL, Berkeley, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed June 14, 1923. Serial No. 645,357. 9 Claims. (Cl. 87—9.)

1. An emulsifiable oil comprising a napthenic soap, mineral oil, and a substantially anhydrous aliphatic alcohol.

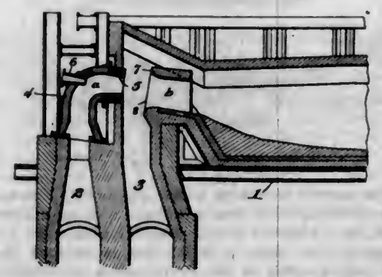
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1,695,198. PROCESS FOR CLARIFYING, DECOLORIZING, AND NEUTRALIZING OILS. DAVID R. MERRILL, Berkeley, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Feb. 1, 1926. Serial No. 85,382. 39 Claims. (Cl. 196—147.)

4. A process of decolorizing and neutralizing oleaginous substances including petroleum lubricating oils comprising mixing clay with acid, treating oil therewith, and in a a separate treatment treating the oil with clay and an alkali solution.

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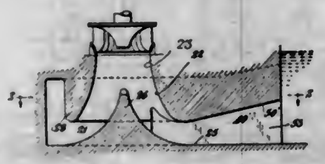
1,695,199. REGENERATIVE FURNACE. WILLIAM MILLWARD, Pittsburgh, Pa. Filed July 5, 1923. Serial No. 649,501. 3 Claims. (Cl. 263—15.)



3. Means for effecting sharp combustion in furnaces of the regenerative type, comprising the combination of a gas uptake, an unobstructed air uptake, a gooseneck terminal for the gas uptake and stopping short of the air uptake and constituting a primary mixing chamber, means for supplying it with air under pressure, a secondary mixing chamber centered relatively to the first and to said means, and a system of control.

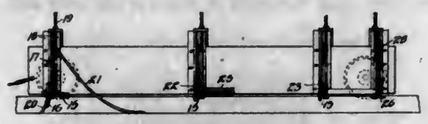
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1,695,200. HYDRAULIC DRAFT TUBE. LEWIS FERRY MOODY, Philadelphia, Pa. Original application filed Nov. 28, 1922, Serial No. 603,769. Divided and this application filed Mar. 26, 1926, Serial No. 97,534. Renewed May 14, 1928. 20 Claims. (Cl. 253—117.)



1. A turbine having a draft tube formed of an outer circular spreading wall and a central cone projecting into the space surrounded by said wall, said spreading wall at the outlet of said tube being cut away to form a spiral collector passage, and said spreading wall being continued in one direction to form an inclined wall of a second passage which receives the downstream flow directly from said tube, and a partition for separating said spiral and downstream passages.

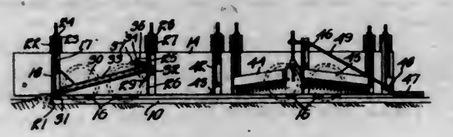
1,695,201. ASPHALT SPREADER. ALFRED TURENNE NEWELL, Birmingham, Ala. Filed Mar. 14, 1927. Serial No. 175,338. 7 Claims. (Cl. 94—46.)



1. A machine for use in roadbuilding comprising a scraper adapted to scrape off the surface of the roadway, an apron for receiving material to be deposited on the roadway said apron forming a drag for smoothing the surface operated upon by the scraper, and means for striking off and leveling the material deposited from the apron, substantially as set forth.

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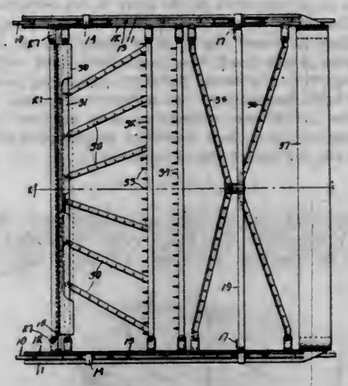
1,695,202. ASPHALT SPREADER. ALFRED T. NEWELL, Birmingham, Ala. Filed May 26, 1928. Serial No. 280,932. 6 Claims. (Cl. 94—44.)



1. A road building machine comprising an adjustable scraper for preparing the roadway for the reception of surfacing material, a cross member supported in spaced relation to said scraper, a plurality of rods having their ends supported by said scraper and cross member, and pipes loosely mounted on said rods, substantially as set forth.

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1,695,203. ASPHALT SPREADER. ALFRED T. NEWELL, Birmingham, Ala. Filed July 28, 1927. Serial No. 209,121. 6 Claims. (Cl. 94—44.)



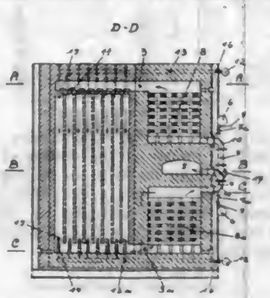
1. An asphalt spreading machine comprising a scraper for preparing the roadbed for the reception of road surfacing material, diagonal rakes disposed behind said scraper, and means for ironing out the material after it is operated upon by said rakes, substantially as set forth.

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1,695,204. VERTICAL-CHAMBER COKE OVEN. CARL OTTO, Essen-Ruhr, Germany. Filed Nov. 2, 1926, Serial No. 145,793, and in Germany Oct. 14, 1925. 7 Claims. (Cl. 202—9.)

1. A vertical chamber coke oven having a vertical coke chamber with broad and narrow sides and heating walls

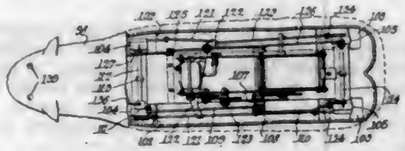
therefor, provided with heating flues, said heating walls extending along the broad sides of said chamber, regenerators located at one narrow side of the chamber, said regenerators being connected to said heating flues and be-



ing arranged in two superimposed rows, having a horizontal wall common to the rows of the regenerators, and a waste heat flue arranged in said wall and means for connecting said waste heat flue with either of the rows of regenerators.

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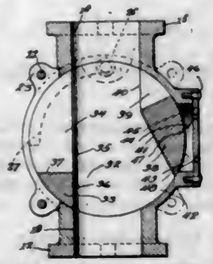
1,695,205. ANIMATED TOY. HERBERT EDWARD PRICE, Seattle, Wash. Filed Sept. 6, 1927. Serial No. 217,779. 2 Claims. (Cl. 46—40.)



1. In an animated toy the combination with a body, and means for propelling the body, said means including pivoted leg members and a clock mechanism for operating the leg members, of an upstanding lever, a rod connection between said lever and one of the leg members, a laterally movable head connected to the body, a rod connecting said upstanding lever to one side of the head, for swinging the head laterally when the lever is actuated, eye balls exposed within the head, ear levers fulcrumed within and extending from the head, inwardly extending arms upon the eye balls, connecting rods between said arms and the respective ear levers, connecting rods between said ear levers and the body, and coverings on the projecting portions of the ear levers simulating ears.

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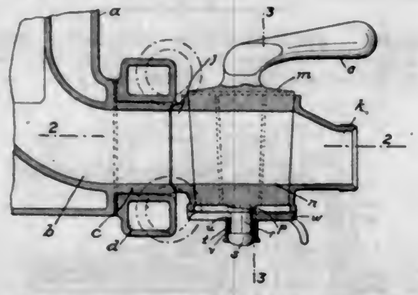
1,695,206. AIR VALVE AND FUEL CUT-OFF. WILLIAM HENRY PRITCHETT, San Diego, Calif. Filed May 4, 1927. Serial No. 188,803. 2 Claims. (Cl. 251—109.)



1. An air valve and fuel cut-off comprising a casing having fuel inlet and outlet openings and a lateral air port, a rotary valve mounted in said casing and having a substantially diametric through passage with a segment at one side composed of a relatively small blank portion and a relatively large open portion extending from the through passage to the periphery of the valve, said valve body having at the other side of said passage a smaller segmental portion composed in part of a blank segment part having its chord line diagonal to the chord line of the first-mentioned segment and angular to the axis of the through passage, said last-named segment also having a slotted portion with its chord line extending substantially parallel with the chord line of the first segment, said valve body having a space between said blank portion and the through passage, said blank segment part being adapted in one position of the valve to completely mask the lateral air port and in another position to completely mask the fuel inlet opening.

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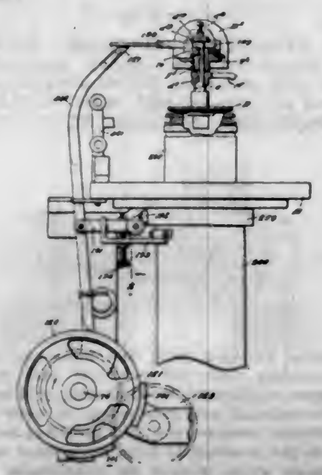
1,695,207. MILK PASTEURIZER. WILLIAM SANGSTER, Peterborough, Ontario, Canada, assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 3, 1927. Serial No. 230,914. 5 Claims. (Cl. 137—21.)



1. The combination with a milk pasteurizing vessel and a pipe extending therefrom and forming a milk discharge passage, of a separate heater removably attached to and surrounding the pipe, a valve casing secured to the heater, and a valve in the valve casing controlling the outflow of milk from the outlet end of the pipe through the valve casing.

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1,695,208. DIAL-HARMONIZING DEVICE FOR CIRCULAR-KNITTING MACHINES. PETER SCHARHAG, Milwaukee, Wis., assignor to Scott & Williams, Incorporated, New York, N. Y., a Corporation of Massachusetts. Filed Feb. 24, 1927. Serial No. 170,503. 9 Claims. (Cl. 66—27.)

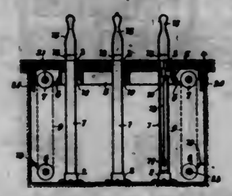


9. A circular knitting machine having rotating pattern means, a needle cylinder, a cylinder raising tube, a dial and a thrust rod actuated by said rotating pattern means to raise and lower said dial in combination with an operating lever pivoted on a stationary portion of the machine adapted to raise and lower said thrust rod, cam means operated in unison with said pattern drum adapted to actuate said operating lever and bracket means on said cylinder raising tube adapted to move said operating lever an adjustable amount with relation to the movement of said cylinder raising tube.



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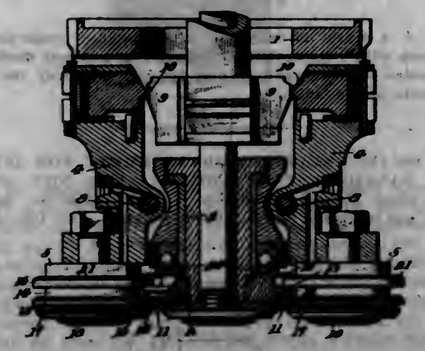
1,695,209. APPARATUS FOR SETTING UP SKITTLE PINS. HERMANN SCHWARZ, Hamburg, Germany. Filed Dec. 20, 1927, Serial No. 241,390, and in Germany Sept. 23, 1926. 1 Claim. (Cl. 273—44.)



An apparatus for setting up the pins in skittle alleys comprising in combination a plurality of vertical tubes the upper ends of which support the pins, each of said tubes passing through upwardly flared openings in a platform and being provided with vertical longitudinal slots in their walls, a vertically adjustable frame beneath said platform, flexible pulling members secured to the lower ends of said pins and provided with balls at their lower ends, a pair of endless driving chains on which said frame is suspended, arms secured to said frame and provided with guiding bores for said pulling members and means for driving said chains to cause said arms to contact with said balls and thereby stretch said pulling members and to raise said platform to secure said pins in the vertical position.

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1,695,210. SEAMING HEAD FOR CAN-CLOSING MACHINES. MATHEW M. SEDWICK, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed June 27, 1927. Serial No. 201,842. 6 Claims. (Cl. 113—24.)

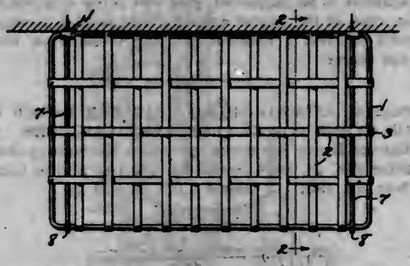


1. A seaming head for closing machines including a chuck for engaging a can end and holding the same on the can body, a body portion, said chuck and body portion having a relative rotation, seaming levers carried by said body portion, a seaming roll mounted to rotate freely on each seaming lever, and yielding means associated with said chuck and adapted to engage the seaming rolls at the outer edge portion thereof for causing said seaming rolls to rotate on their respective levers.



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1,695,211. RACK. OSCAR G. SHILANDER, Dearborn, Mich. Filed Jan. 16, 1926. Serial No. 81,818. 1 Claim. (Cl. 211—93.)



A supporting rack of the class described comprising a rectangular-shaped frame formed of round stock, spaced straps extending transversely and longitudinally across the frame with their ends fastened to the frame, the longitudinally extending straps passing under alternate transversely arranged straps and over the other transversely arranged straps, eye forming clips connected with the rear bar of the frame for hingedly connecting the frame with a support and a pair of braces each having an eye at one end receiving a part of the front bar of the frame and its other end bent at an angle and flattened for attachment to a support.

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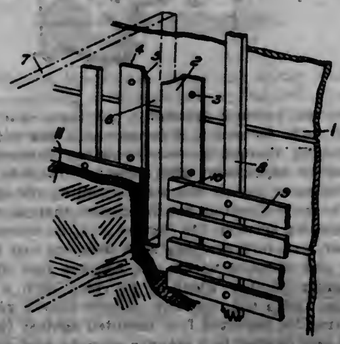
1,695,212. BOTTLE STERILIZING AND CLEANSING APPARATUS. THEOBALD FRIEDRICH SEITZ, Kreuznach, Germany, assignor to The Corporation of Seitz-Werke G. m. b. H., Kreuznach, Germany. Filed Mar. 23, 1927, Serial No. 177,767, and in Germany Mar. 15, 1926. 5 Claims. (Cl. 141—7.)



1. In a bottle sterilizing and cleansing apparatus, a rotatable fluid container, sockets thereon, each socket forming a fluid-tight chamber around the neck of a bottle for the passage of fluid from the container into the bottle and around the exterior of the neck thereof, a valve between the container and each socket, and means for engaging the bottom of each bottle to hold it in its socket.

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1,695,213. BRACKET. WILLIAM CUMMING SKINNER, Vancouver, British Columbia, Canada. Filed Apr. 11, 1927, Serial No. 182,939, and in Canada May 13, 1926. 1 Claim. (Cl. 304—32.)

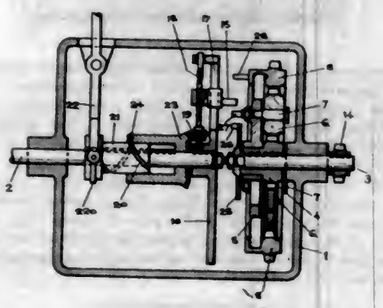


The combination with a scaffold bearer or the like, of a bracket adapted for attachment to a wall surface, said

bracket being formed of inherently springy sheet material and having medial portions curved away from the wall surface to define a vertical slot into which the end of a bearer is adapted to be supported, said slot being of a width less than that of the bearer whereby, said medial portions are caused to exert a resilient gripping pressure on the side of the bearer.

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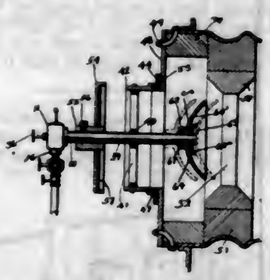
1,695,214. CHANGE-SPEED GEAR FOR MOTOR CARS OR OTHER POWER-PROPELLED VEHICLES. NIELS EDVARD EINAR SÖRENSEN, Safvenas, Gottenborg, Sweden. Filed Feb. 24, 1928, Serial No. 256,700, and in Germany Sept. 16, 1927. 5 Claims. (Cl. 74—34.)



1. In a change speed gear, a driving shaft, two gear wheels, a countershaft operable by each of said gear wheels by separate transmitting means having different ratios of gearing, said gear wheels forming two coaxial gear wheels in a planetary gearing, planetary pinions cooperating simultaneously with both the first mentioned gear wheels, and selective means to make operative at will either of the said transmitting means or to simultaneously make operative both of said transmitting means thereby imparting three different speeds from the driving shaft to the counter shaft.

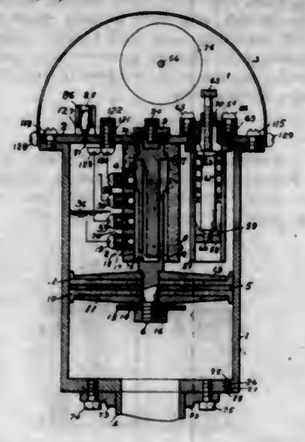
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1,695,215. LIQUID-FUEL BURNER. EARLE I. STAPLES, New York, N. Y. Filed Apr. 23, 1923. Serial No. 634,191. 1 Claim. (Cl. 158—1.5.)



In an oil burning apparatus, an open ended member adapted to be secured to a furnace in a line with the fire box opening thereof, a concavo-convex damper movably mounted for adjustment with respect to one side of the fire box opening, a second damper controlling the open ended member and adjustable with relation thereto to form a draft opening between the furnace and the second damper, a burner structure carrying both dampers and having its burner end disposed within the concave face of the concavo-convex damper which is provided with a series of openings, and a substantially concavo-convex guard member having its convexed face mounted against the concave face of said damper in a manner whereby said guard member is disposed in the path of air from the series of openings.
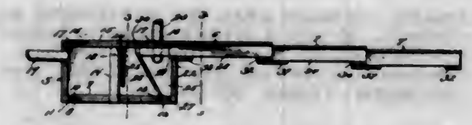
1,695,216. MARINE GOVERNOR FOR SEAGOING SHIPS. GEORGE JOHNSON THIOLAND, Haddonfield, N. J. Filed Jan. 25, 1927. Serial No. 163,412. 11 Claims (Cl. 137—159.)



1. In an anticipating emergency marine governor, a main cylinder, a piston operable therein, a cylinder pump in the main cylinder above the piston, a third cylinder within the main cylinder above the piston, a piston rod operable in the third cylinder and connected to the piston, vacuum means for controlling said piston rod and its piston and electric circuits having electro-mechanical connections with the pump, whereby the making and breaking of the electric circuits may constitute means operatively associated with the vacuum means to maintain a constant vacuum in the main cylinder.

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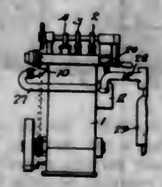
1,695,217. SEPTIC TANK. JOHN P. THURELL, Fort Myers, Fla. Filed Mar. 23, 1927. Serial No. 177,781. 10 Claims. (Cl. 210—6.)



1. A septic device of the class specified, comprising a tank with a removable bottom and top, and rear discharge means with an open bottom for carrying away the contents of the tank.

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1,695,218. STARTING ARRANGEMENT FOR INTERNAL-COMBUSTION ENGINES. PAUL VIET, Billancourt, France. Filed Feb. 6, 1926, Serial No. 86,641, and in France Sept. 3, 1925. 3 Claims. (Cl. 123—179.)

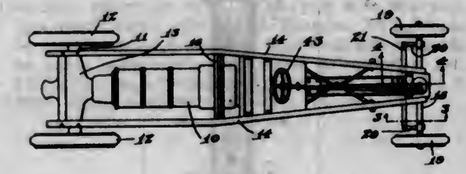


2. A starting device for internal combustion engines comprising an auxiliary internal combustion engine, said engine being provided with fuel intake and exhaust valves, a carburetor in communication with said intake valve, a conduit connecting said auxiliary engine with the engine to be started, a third valve in said conduit, means for regulating the opening of said third valve to permit escape of a portion of the carburetted air in said auxiliary engine to said passage, and a second carburetor interposed in said passage for further carburetting the mixture supplied to the engine to be started.

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1,695,219. STEERING DEVICE. ROY J. WINSOR, Bucyrus, Ohio. Filed Dec. 26, 1925. Serial No. 77,849. 2 Claims. (Cl. 280—96.)



1. An improved steering device for automotive vehicles comprising a front axle, a horizontal pivotal mounting therefor, steering wheels at either end thereof, a connecting bar extending between such steering wheels and a drag link pivotally connected at one end to the connecting bar in alignment with the horizontal axis of the front axle, and pivotally mounted at its other end in vertical alinement with and directly above the horizontal axis of the front axle.

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1,695,220. LOOSE-LEAF BINDER. WALTER F. WOLF, New York, N. Y. Filed Mar. 3, 1928. Serial No. 258,932. 5 Claims. (Cl. 129—13.)

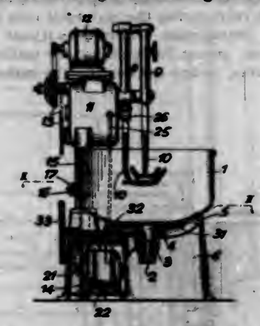


1. In combination with a plurality of stacked loose-leaves, a binder post section extending partially through the thickness of said plurality of loose-leaves from one side of the same, a screw threaded to said post section, and a sleve extending through the opposite side of said plurality of loose leaves and provided with internal screw threads for threading engagement with said screw, the threaded connection between said sleeve and screw being of a tighter fit than the threaded connection between said screw and post section.

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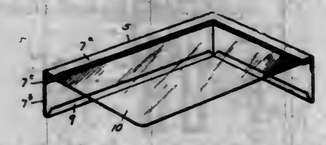
1,695,221. DOUGH KNEADING AND MIXING MACHINE. FRIEDRICH ASCHBACH, Aarau, Switzerland. Filed Jan. 12, 1928, Serial No. 246,272, and in Switzerland Dec. 14, 1927. 6 Claims. (Cl. 259—32.)

1. In a dough mixing and kneading machine, in combination, a machine frame, a kneading trough tiltably mounted in said machine frame, a mixing and kneading device with kneaders cooperating with said kneading trough, means for raising said mixing and kneading device, and an interconnection between said means and the trough to cause a tilting movement of the latter by the raising movement.



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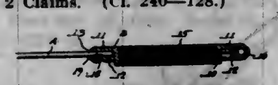
1,695,222. BOX COVER. EDWARD ARNOLD and HENRY TEMPLETON, Yakima, Wash. Filed Apr. 25, 1927. Serial No. 186,451. 3 Claims. (Cl. 220—82.)



1. The combination with a box having an open top side, of a cover therefor, comprising four horizontally disposed members, each of said members consisting of a transparent pane and an L-shaped frame member, said transparent pane being supported wholly from its outer side and end portions by being gripped by its companion L-shaped frame member, the inner sides and edges of said transparent pane being wholly free to lie in snug and close fitting relation to the other transparent panes, at such portions thereof as overlap, two of said L-shaped frame members having their lower edges bent to form channeled portions adapted to slidably receive the companion L-shaped members, said frame members being of such width as to extend down over and embrace the sides of the box to a considerable extent, to thereby insure the retention of the cover upon the box.

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1,695,223. LAMP-SHADE-FRAME HOLDER. KORNEL C. BERGER, New York, N. Y. Filed Aug. 6, 1927. Serial No. 211,231. 2 Claims. (Cl. 240—128.)



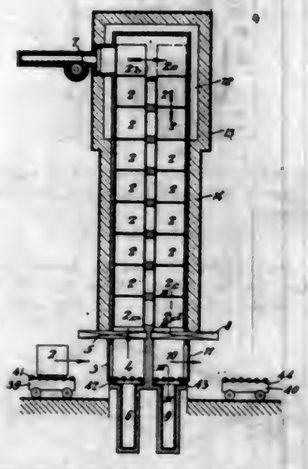
1. An electric lamp shade frame and socket connecting element comprising a substantially cylindrical internally-threaded hub, a radially projecting U-shaped portion having an apertured bight, a radial arm extending through the apertured bight between the leaves of the U-shaped portion and an instruck projection from one of the leaves recessed in the inner end of the arm for anchoring the same against radial outward and lateral movement.

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1,695,224. HEAT-TREATING FURNACE. ADALBERT BESTA, Duisburg, Germany. Filed Mar. 26, 1926, Serial No. 97,715, and in Germany Feb. 28, 1925. 7 Claims. (Cl. 263—6.)

1. Apparatus for the heating and subsequent cooling of materials, and means particularly for the annealing of

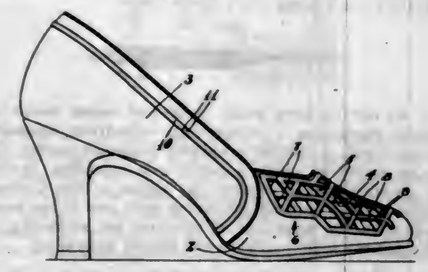
metals, comprising chambers filled with a gas that behaves neutrally with respect to the materials, an upwardly directed delivery device located only at the lower part of the apparatus for introducing the materials into the apparatus in a loosely superposed condition without employing a chain conveyor, means for guiding the materials upwards in the apparatus, means for heating the materials on their



upward path through the apparatus, a pushing device fitted into the wall of the apparatus for moving the materials sideways at the highest part of the apparatus and then downwards, means for guiding the materials downwards through the apparatus from the highest point, means for cooling the materials during their downward travel, and a discharging device located only in the lower part of the apparatus.

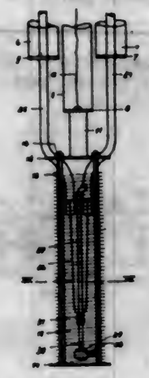
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1,695,225. BOOT OR SHOE AND METHOD OF MANUFACTURING SAME. FRANK M. BOHR, Boston, Mass. Filed Nov. 26, 1927. Serial No. 235,994. 17 Claims. (Cl. 41—10.)



1. In a shoe of the kind described, upper materials having an openwork design therein, and a layer having an openwork design therein superimposed on said upper materials over said first openwork design.

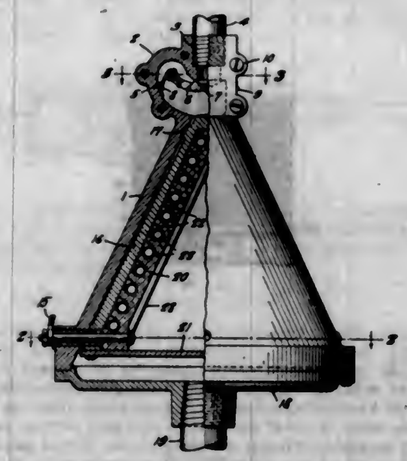
1,695,226. ELECTRIC DISCHARGE TUBE. CORNELIS BOL, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Filed May 31, 1924, Serial No. 717,006, and in the Netherlands June 2, 1923. 3 Claims. (Cl. 250—27.5.)



1. An electric discharge tube comprising a re-entrant glass tube sealed to the wall of the discharge tube, a metal disc or cap-shaped member sealed to and hermetically closing the re-entrant glass tube, a standard attached to said member, a table carried by said standard, a plurality of supports secured to said table, and a wire serving as a grid electrode attached to said supports.

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1,695,227. ELECTRIC WATER HEATER. ERNEST E. BOLINGER, Emmett, Idaho. Filed Mar. 21, 1928. Serial No. 263,369. 2 Claims. (Cl. 219—39.)



1. A liquid heater comprising a conical casing having an offset part at its upper small end forming a chamber, an inlet pipe connected with the chamber, a member closing the lower end of the casing and forming a discharge chamber, a discharge pipe connected with the latter chamber, a second conical casing fitting within the first and having projections thereon for slightly spacing it from the first chamber to form a conical passage between the casings, the upper small end of the passage being in communication with the inlet chamber and the lower end of the passage being in communication with the discharge chamber, a conical member formed of non-conducting material fitting in the



inner casing and having a spiral groove in its outer surface, a heating coil in said groove, a pair of posts passing through the two casings and the grooved member, means for connecting the ends of the coil to the inner ends of said posts, a circuit connected with the outer ends of said coils, a switch in said circuit, a shaft arranged in the inlet chamber, an arm on the shaft having a head, spring means for causing the head to normally lie in a position for closing the inlet to the inlet chamber and said arm being moved to open position by the liquid flowing into the chamber and means connected with the shaft for opening and closing the switch by the movement of the arm on the shaft.

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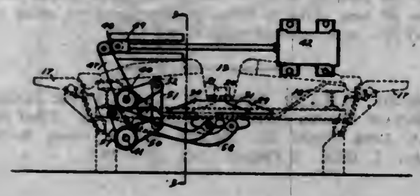
1,695,228. PROCESS AND APPARATUS FOR DISPERSING IRRITANTS. DONALD B. BRADNER, Philadelphia, Pa., and NICHOLAS E. OGLESBY, Edgewood, Md., assignors, by mesne assignments, to Federal Laboratories, Inc., Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 7, 1925. Serial No. 7,594. 2 Claims. (Cl. 102—12.)



1. A cartridge for fire-arms containing a primer, a propellent powder, and an immediately dispersable gas-generating chemical, said chemical arranged to be projected and immediately dispersed by the released energy of the propellent powder upon the firing of the cartridge.

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1,695,229. FUEL-PUSHER MECHANISM FOR STOKERS. OLLISON CRAIG, Worcester, Mass., assignor to Riley Stoker Corporation, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 17, 1924. Serial No. 707,258. 4 Claims. (Cl. 110—47.)

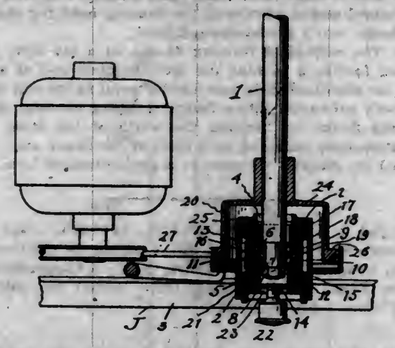


2. A stoker comprising walls defining a main retort and branch retorts communicating therewith, a pusher member movable lengthwise of the main retort, pushers beneath said member and movable laterally into the branch retorts and means to move the pushers in adjacent branch retorts simultaneously in opposite directions.

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1,695,230. SUPPORT AND BEARING FOR GYRATING SHAFTS. ARTHUR R. CURTIS, Cleveland, Ohio. Filed Apr. 23, 1923. Serial No. 633,973. 7 Claims. (Cl. 308—145.)

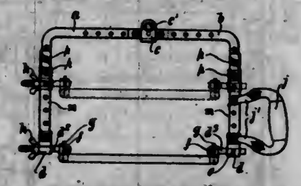
3. A support and bearing for a gyrating shaft comprising a fixed outer casing having an opening in the top thereof to receive the shaft, a bearing for the lower end portion of the shaft within said casing, an inner casing enclosing said bearing, said inner casing having an enlarged portion fitting over the bearing, a sleeve at the top surrounding the shaft and a closed lower end portion of reduced diameter, buffer collars of elastic material surrounding said sleeve and reduced lower end of the inner casing and fitting be-



tween the enlarged portion of the inner casing and the top and bottom walls of the outer casing, and means for supplying lubricant to the interior of the inner casing.

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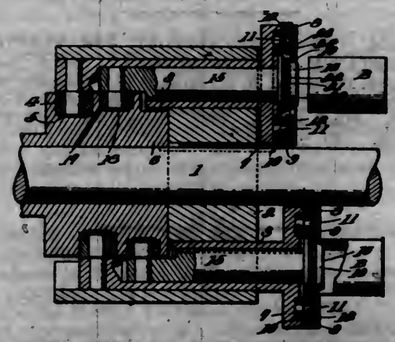
1,695,231. HACK-SAW FRAME. ALFRED EGAN, London, England. Filed May 8, 1925, Serial No. 28,911, and in Great Britain June 23, 1924. 1 Claim. (Cl. 145—34.)



In combination with a hack saw frame having arm members, socket pieces secured to said arm members and each having a socket bore and a key projecting into said bore, bolts extending through said bores and having keyways engaged by said keys, a saw blade and members to which the ends of the saw blade are attached, said members having bores through which said bolts extend so that said members may be turned to arrange the blade in adjusted position with respect to the frame, said bolts and said members having radially related bores extending diametrically therethrough and pins for insertion in said bores to secure said members on said bolts in adjusted position.

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1,695,232. METHOD OF FLANGING CAN BODIES AND FLANGING HEAD FOR CARRYING OUT THE SAME. HENRY A. FINK, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 26, 1925. Serial No. 18,428. 10 Claims. (Cl. 153—25.)



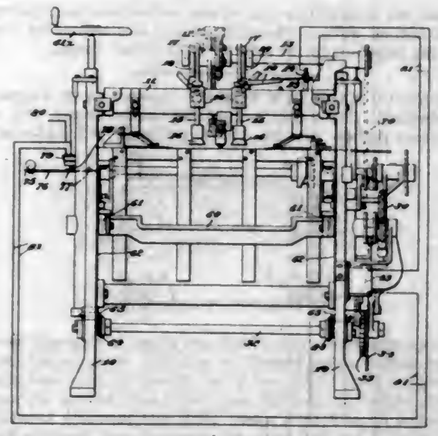
1. A flanging head for can bodies including a flange turning die having means for engaging the outer face of the

flange when it is formed, means for limiting the width of the flange formed on the can body, means for engaging the inner face of the formed flange, and means for moving said last-named means relative to the flanging head for shaping the flange into a predetermined form.

10. The method of forming flanges on a can body comprising forcing a turning die into the open end of a can body for simultaneously turning the metal at the end of the can body outwardly into a flange, engaging the edge of the forming flange for limiting the width of the same, and simultaneously engaging both faces of the flange after it is formed for shaping the same to a predetermined form.

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1,695,233. AUTOMATIC STACK-LIFTING DEVICE. HENRY A. FINK, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1928. Serial No. 246,842. 5 Claims. (Cl. 271—62.)



1. In a feeder apparatus for the individual sheets of a stack, a stack-raising mechanism and a source of power for the same, lifting means to engage and lift the top sheet of the stack and adapted to move upward and downward relative to the stack and being limited in the downward movement by the top of the stack, and a stack-raising control device including a circuit breaker which is normally open, means to close the circuit breaker during the time the lifting means is below a predetermined position, a circuit including said circuit breaker, and means controlled by said circuit when closed to connect said source of power to said mechanism to produce a raising of the stack.

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1,695,234. INSULATING SUPPORT FOR ELECTRIC RESISTANCE HEATING ELEMENT. LOUIS JAMES FULLER, Bloomfield, N. J., assignor to Duparquet, Huot & Moneuse Co., New York, N. Y., a Corporation of New York. Filed Apr. 8, 1927. Serial No. 182,017. 4 Claims. (Cl. 201—63.)



1. In an insulating support for electric heating elements, channel-shaped apertured frame elements including marginal flanges, insulator members arranged in the frame members and each having a boss on its inner face fitting through the frame apertures, the said insulator members each having an outer face of a reduced width presenting inwardly diverging side edges against which the flanges are bent inwardly to embrace and retain the insulator members in place.

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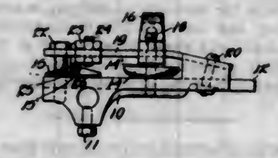
1,695,235. PIVOT HINGE. ALVIN C. GODDARD, Richmond Hill, N. Y. Filed Aug. 9, 1927. Serial No. 211,652. 12 Claims. (Cl. 16—140.)



1. A hinge device comprising in combination, a pair of frame plates in frictional engagement with each other, a pivot forming a bearing to permit one to turn with respect to the other, a floating friction plate member and means coacting therewith to increase the pressure between said frame plates.

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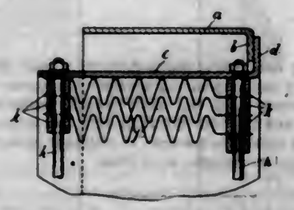
1,695,236. SLUB CATCHER. DAVID GRAVEL, Chattanooga, Tenn., assignor to The Standard-Coosa-Thatcher Company, Chattanooga, Tenn., a Corporation of Tennessee. Filed Apr. 23, 1928. Serial No. 272,325. 15 Claims. (Cl. 28—64.)



1. A slub catcher comprising a support, means for guiding the yarn over a face of the support and a plate adjacent said face swingable on a pivot transverse to the line of movement of said yarns, said plate having parts extending in opposite directions from said pivot over the running yarn for tilting the plate on the occurrence of long slubs or other imperfections, to catch and break the yarn, substantially as set forth.

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1,695,237. FILTER FOR AIR AND OTHER GASES. EDWARD LIONEL JOSEPH, London, England. Filed Nov. 18, 1924, Serial No. 750,524, and in Great Britain Mar. 7, 1924. 2 Claims. (Cl. 183—70.)



1. A filter for air and other gases, comprising an outer frame, an inner frame removably mounted in the outer frame and open at its front and rear faces to admit passage of air through the frame and closed at its opposite sides, and a plurality of plates arranged horizontally in superposed relation in the inner frame and extending between the front and rear faces thereof to divide the air into independent horizontal strata, said plates having relatively deep and sharp transverse crimps extending from side to side in the inner frame, said plates being spaced apart with the sharp angle portions of one plate overlapping the sharp angle portions of an adjacent plate to provide narrow passages between the inclined portions of adjacent plates and wide and deep pockets between the angle portions of adjacent plates, said narrow passages between the inclined portions of the plates being of less cross sectional area than that of the wide and deep pockets between the crimps of adjacent plates, the deep pocket in the angle of each crimp providing a zone of quietude between adjacent narrow passages in which dust particles may be entrapped.



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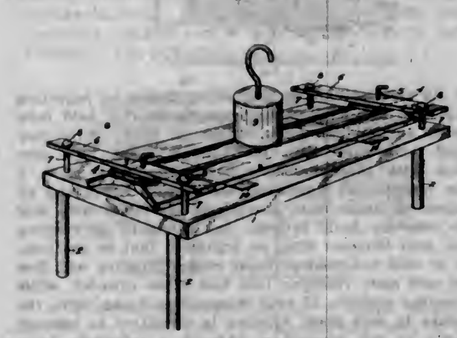
1,695,238. TOOTH CLEANER. GODEL KALENOFF, Brooklyn, N. Y. Filed Feb. 18, 1928. Serial No. 255,348. 1 Claim. (Cl. 132—84.)



A tooth cleaner, comprising, a single integral member, spaced groove cord-receiving posts on the member, a toothbrush having a groove therein to receive the device, a perforated tongue on the device, and a pivot pin secured in the toothbrush handle and projected through the tongue.

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1,695,239. METHOD OF PREVENTING WARPAGE OF CASTINGS IN COOLING. ALLEN B. NORTON, Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 4, 1926. Serial No. 126,979. 2 Claims. (Cl. 148—11.)

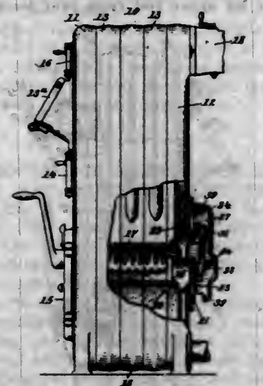


1. The method of treating aluminum alloy castings, which comprises taking the hot castings directly from the molds, placing them upon a surface of the desired configuration, clamping them to said surface, and allowing them to cool while so clamped.

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1,695,240. AUTOMATIC DRAFT REGULATOR FOR BOILERS. ANDRÉ M. MERTZANOFF, New York, N. Y., assignor to American Radiator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 27, 1923, Serial No. 621,518. Renewed Nov. 9, 1928. 8 Claims. (Cl. 236—32.)

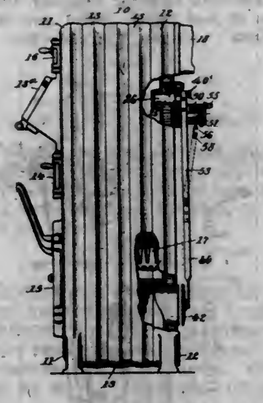
2. The combination of a boiler having a main air inlet with a lever pivotally supported adjacent to its upper end, a closure for said air inlet carried by the free end of said lever, means responsive to changes in condition within the boiler for automatically controlling the operation of said closure, a pivoted support, a member mounted upon said pivoted support adapted to move said closure to an adjusted position when said support is actuated, and



means for holding said member in position to limit the movement of said closure in the reverse direction substantially as specified.

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1,695,241. AUTOMATIC DRAFT REGULATOR FOR BOILERS. LEWIS W. EGGLESTON, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 27, 1923. Serial No. 621,683. 15 Claims. (Cl. 236—32.)



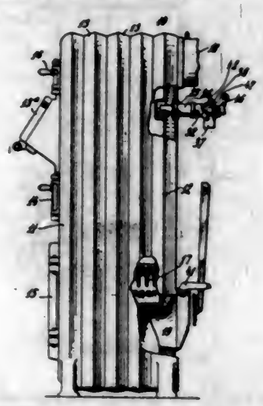
13. The combination of a boiler having a main air supply inlet, with a closure for said inlet, means responsive to temperation within the boiler for actuating said closure to control the passage of air through said inlet, and adjustable means operatively associated with said closure for varying the position of such closure in accordance with and predetermined temperature at which said closure is actuated by said responsive means; said adjustable means being operable to control said closure independently of the automatic control thereof, substantially as specified.

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1,695,242. AUTOMATIC DRAFT REGULATOR FOR BOILERS. LEWIS W. EGGLESTON, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 30, 1925. Serial No. 72,682. 2 Claims. (Cl. 236—32.)

1. The combination of a boiler having a main air supply inlet, with a closure for said inlet, means responsive

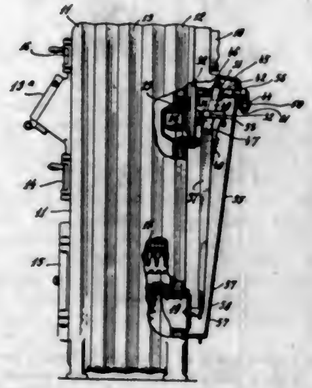
to conditions within the boiler disposed above said inlet and having a plunger projecting outwardly therefrom, a sleeve surrounding said responsive means and secured to said boiler, a bracket on said sleeve, a lever pivotally suspended at its upper end from said bracket, and con-



nected to said closure at its lower end, and an adjustable member carried by said lever at the upper end thereof and adapted to engage said plunger for predetermining the temperature at which said closure is actuated by said responsive means, substantially as specified.

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1,695,243. AUTOMATIC DRAFT REGULATOR FOR BOILERS. LEWIS W. EGGLESTON, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Nov. 30, 1925. Serial No. 72,083. 8 Claims. (Cl. 236—20.)

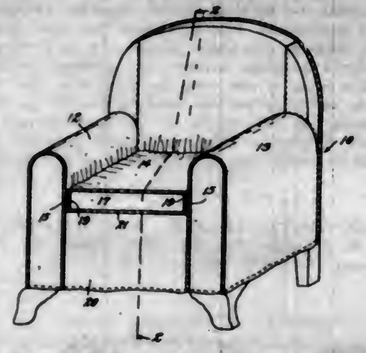


7. The combination of a boiler having a main air supply inlet, with a reciprocating member, a supporting arm pivoted intermediate its ends and at its upper end to said reciprocating member, a lever pivotally suspended at its upper end from the lower end of said arm, a closure for said inlet connected to the free end of said lever, means responsive to conditions within the boiler and associated with said lever for actuating the same, and means for actuating said reciprocating member, substantially as specified.

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1,695,244. SLIP COVER. ARTHUR COHEN, Dorchester, Mass. Filed Apr. 26, 1928. Serial No. 273,018. 2 Claims. (Cl. 155—182.)

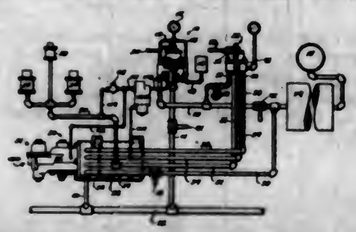
1. A unitary slip cover for a seat provided with a separable seat cushion, the said cover having portions for covering and conforming to the shape of the top of the seat cushion and back and arms of the seat, and portions for tucking down and along the sides of the cushion and



between the rear of the cushion and the back of the seat to substantially the bottom edges of the cushion, and a portion for covering the front of said seat cushion having stitches following the front edges of the cushion.

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1,695,245. AIR-BRAKE SYSTEM. FRANK H. DUKESMITH, Meadville, Pa., assignor, by mesne assignments, to Frederick C. Borst and Floyd R. Stewart. Filed May 2, 1927. Serial No. 188,333. 22 Claims. (Cl. 303—8.)



2. An air brake system comprising means for supplying compressed air, a main reservoir for storing said compressed air, an engineer's automatic brake valve connected with said main reservoir, a brake pipe connected with said engineer's automatic brake valve, a brake cylinder, an automatic distributing valve, and an independent brake valve operatively associated with said main reservoir, brake cylinder, and automatic distributing valve, said elements being so organized that in one position of said independent brake valve, pressure will flow from said main reservoir into said brake cylinder, while in another position of said independent brake valve the pressure in said brake cylinder is permitted to exhaust directly to the atmosphere through a relatively large passage provided in said independent brake valve while the pressure in said automatic distributing valve is being exhausted directly to the atmosphere through a smaller passage provided in said independent brake valve.

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1,695,246. FENDER FOR SWEEPERS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1925. Serial No. 5,257. 4 Claims. (Cl. 15—155.)



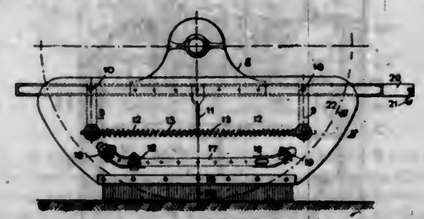
2. The combination with a sweeper having a generally rectangular floor-contacting nozzle, of a resilient fender



therefor shaped before application to the nozzle to embrace the exposed faces only of the nozzle, the ends of said fender being provided with knobs, and its corners with diagonal webs, the rear face of the nozzle having openings in which said knobs are anchored and its corners provided with channels in which said webs are seated.

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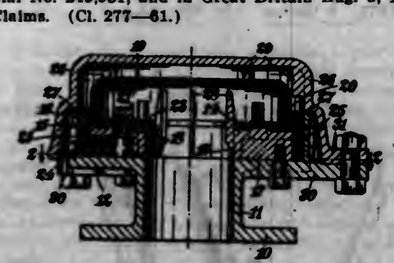
1,695,247. MUDGUARD FOR MOTOR VEHICLES. HENRI DÉDISSE, Boulogne-sur-Seine, France. Filed Nov. 10, 1926, Serial No. 147,500, and in France June 8, 1926. 4 Claims. (Cl. 280—157.)



1. A mud-guard for automobile and other vehicles characterized by a screen consisting of a rigid portion maintaining at its lower end a flexible member, and pivotally mounted on the end of rigid oscillating arms 9 which are pivoted at the other ends to a rigid support 5 adapted to bear upon the corresponding vehicle axle, the lower ends of the pivoted arms being connected together by a rod 12 which is guided in a slot formed in an intermediate rigid vertical arm 11 upon which are caused to bear the springs 13 which abut at the other ends upon the respective extremities of the oscillating arms 9 which tend to maintain the mud-guard constantly in the normal position and will bring it into this position should it depart therefrom.

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1,695,248. PRESSURE-RELIEVING VALVE. THOMAS ALBERT CROMPTON, Ilford, England. Filed Jan. 27, 1925, Serial No. 249,951, and in Great Britain Aug. 3, 1927. 4 Claims. (Cl. 277—61.)



1. A double-acting relief-valve for a closed chamber, comprising in combination a pressure-relieving valve of the type specified and provided with a felt ring on which the bell-shaped valve seats itself, an annular inverted channel-shaped valve inside the bell-shaped valve, the outer lower edge whereof also seats itself on the felt ring aforesaid, a second felt ring concentrically disposed within and in the same plane as the first felt ring and constituting the seating for the inner lower edge of the annular valve, and a passage between the felt rings to place the lower side of the annular ring in communication with the atmosphere.

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1,695,249. PROCESS OF MAKING ISOPROPYL ALCOHOL. GEORGE O. CURME, Jr., and ERNEST W. REID, Pittsburgh, Pa., assignors, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y., a Corporation of New York. Filed July 19, 1919. Serial No. 312,070. 2 Claims. (Cl. 260—156.)

1. In a process of making isopropyl alcohol, the step which consists in hydrolyzing di-isopropyl sulfate, while maintaining the same in emulsification with water.

1,695,250. MANUFACTURE OF GLYCOLS. GEORGE O. CURME, Jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation, a Corporation of New York. Filed Jan. 7, 1926. Serial No. 79,895. 4 Claims. (Cl. 260—156.5.)

1. Process which comprises reacting with a caustic alkali on a quantity of chlorhydrin dissolved in water until the chlorin is substantially completely decomposed, and restricting the rate of reaction so that the major portion of the chlorhydrin is converted into glycol.

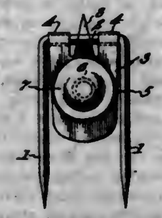
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1,695,251. PROCESS FOR DECOLORIZING KEROSENE, GASOLINE, AND SIMILAR LIGHT PETROLEUM DISTILLATES. VLADIMIR ANATOLE KALICHEVSKY, Willowbrook, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a Corporation of California. Filed Sept. 19, 1927. Serial No. 220,637. 13 Claims. (Cl. 196—147.)

7. A process for decolorizing lighter petroleum distillates containing coloring matters not readily adsorbable by clay, comprising treating the distillates with alkali sufficient to convert said matters into adsorbable forms and then commingling the distillate with acid and clay for adsorption of said adsorbable forms.

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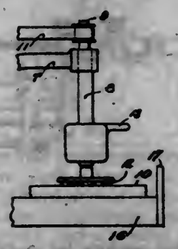
1,695,252. PIN-ATTACHED BUTTON. GEORGE A. KING, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 5, 1928. Serial No. 259,215. 2 Claims. (Cl. 24—103.)



1. A double-pointed pin, having a head, a plate hingedly mounted on said head, a button fixed to said plate and moving with it as it swings on said pin head, and a single stabbing prong projecting from the plate in a direction opposite to the pin points.

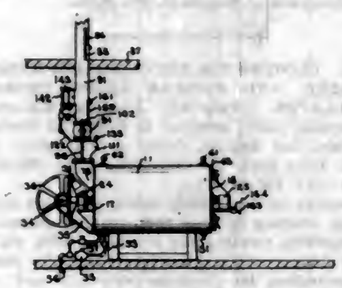
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1,695,253. PROCESS FOR FINISHING THE SURFACES OF BONDED ASBESTOS AND THE LIKE AND RESULTING PRODUCT. JOHN C. MACILDOWIE, Nashua, N. H., assignor to Asbestos Wood & Shingle Co., Nashua, N. H., a Corporation of New Hampshire. Filed Mar. 24, 1925. Serial No. 17,951. 11 Claims. (Cl. 25—154.)



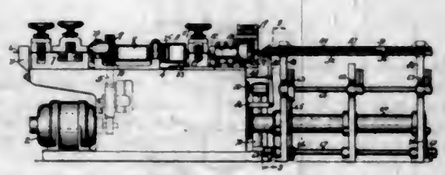
6. A method of finishing the surface of cement-bonded asbestos material, which comprises filling and packing the interstices between the particles at or near said surface with very finely comminuted particles, identical in composition with the cement-bonded asbestos surface, and polishing the close grained surface thus produced.

1,695,254. RENDERING APPARATUS. ROBERT MCTAVISH, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Original application filed Mar. 18, 1924, Serial No. 700,140. Divided and this application filed Dec. 31, 1925. Serial No. 78,651. 2 Claims. (Cl. 87—13.)



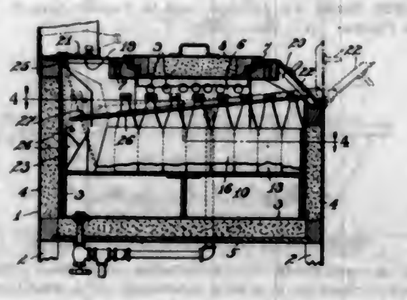
1. In a rendering apparatus of the character described, the combination of a cooking vessel comprising a cooking compartment, stirrers in said cooking compartment, an escape stack for the free escape of steam from said cooking compartment, said escape stack connecting with said cooking compartment, a valve in said escape stack to shut off said escape of steam, a by-pass passage whose respective ends connect respectively with said cooking compartment and with said stack and by-passing said valve, a valve in said by-pass passage, said by-pass passage and said last-named valve being of materially less capacity than said stack and said first-named valve, an automatic relief valve having connection with said by-pass passage between the end of said by-pass passage connecting with said cooking compartment and said second-named valve, said automatic relief valve arranged to open by excess pressure in said cooking compartment, and said automatic relief valve comprising means for adjusting the pressures at which it opens, and an enclosure for said automatic relief valve, the interior of said enclosure communicating with the interior of said stack.

1,695,255. WIREWORKING MACHINE. GEORGE F. MATTESON, Rockyhill, Conn., assignor to The F. B. Shuster Company, New Haven, Conn., a Corporation of Connecticut. Filed Dec. 10, 1926. Serial No. 153,856. 35 Claims. (Cl. 140—140.)



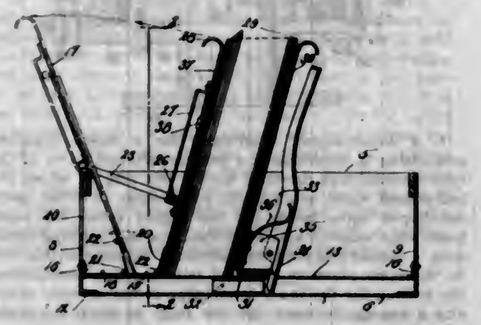
1. A straightening machine for movable lengths of material and including a material straightening device, a pinion for rotating said device, and a sharpening device having a gear in mesh with said pinion, said sharpening device being located in proximity to the mouth of said straightening device and having means for sharpening the end of a length of stock.

1,695,256. BOTTLE REFRIGERATOR. CALVIN N. MILLER, Muncie, Ind., assignor to Glascock Brothers Mfg. Company, Muncie, Ind., a Corporation of Indiana. Filed Oct. 1, 1925. Serial No. 59,786. 6 Claims. (Cl. 312—36.)



1. A bottle refrigerator including a bottle channel irregular in cross section at that portion through which the body of a bottle passes to permit the passage therethrough only of a bottle having a configuration in the body portion thereof to coincide with the irregular shape of said channel and means for propelling bottles through said channels.

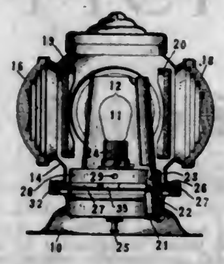
1,695,257. HINGED COMPRESSOR. ENOCH OHNSTRAND, Kenmore, N. Y. Filed Nov. 20, 1926. Serial No. 149,777. 9 Claims. (Cl. 129—16.)



7. A tray for holding a group of cards or the like, comprising an abutment, a compressor for clamping the cards together, means hingedly connected to the tray and the compressor at spaced points adapted to permit movement of said compressor bodily away from said cards and relative to said tray, and means for retaining said compressor in card compressing position.

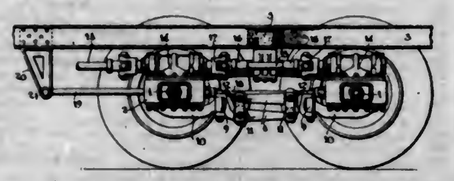


1,695,258. TRAIN SIGNAL LAMP. FURMAN D. SPEAR, New York, N. Y., assignor to Armspear Manufacturing Company, New York, N. Y., a Corporation of New York. Filed June 25, 1927. Serial No. 201,395. 8 Claims. (Cl. 240—24.)



1. A train signal lamp comprising a support, a rotatable body carried thereby and having lenses of four different colors, stationary blinders for two sides and independently movable glasses inside the lamp body of colors corresponding to two of said lenses.

1,695,259. RUNNING GEAR FOR MOTOR VEHICLES. ELLIS W. TEMPLIN, Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Original application filed Oct. 19, 1921, Serial No. 508,844. Divided and this application filed Nov. 10, 1925. Serial No. 68,164. 5 Claims. (Cl. 180—22.)



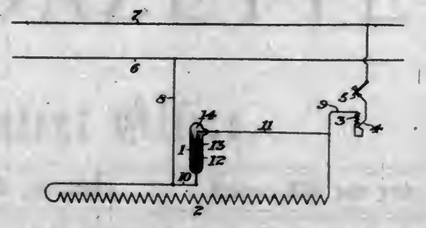
1. A motor vehicle comprising a chassis, a plurality of driving axles disposed in parallel relationship, housings for said axles, resilient supporting means connecting said housings with said chassis, torque neutralizing interconnections between said housings permitting limited relative movement of each housing end independently of the remaining housing ends and adapted to cause the torque developed in each housing to oppose the torque developed in the other housing, and couplings comprising radius rods connecting said housings with said chassis without restricting the limited relative movements of said housing ends.

1,695,260. SWITCH MOUNTING. WARREN R. WALKER, New Dorp, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Oct. 1, 1924. Serial No. 741,081. 3 Claims. (Cl. 200—152.)



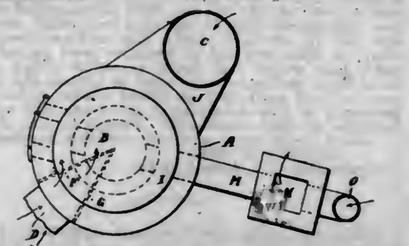
1. A switch unit comprising a mercury switch having a vitreous envelope and electrodes sealed therethrough, a bar of insulating material coextensive longitudinally with said envelope, screw studs in the ends of said bar, straps mounted to the ends of said envelopes, electrically connected to the leads thereof and mounted to said screws to hold said envelope to said bar, nuts and washers on said screws for holding said straps and for connecting line leads thereto.

1,695,261. THERMOSTATIC ELECTRIC SWITCH. WILFORD J. WINNINGHOFF, East Orange, N. J., assignor to Cooper Hewitt Electric Company, Hoboken, N. J., a Corporation of New Jersey. Filed Nov. 10, 1923. Serial No. 673,900. 5 Claims. (Cl. 219—20.)



1. In an electric heater circuit, in combination, an electric resistance heater, a temperature closed switch in shunt with said heater, and a circuit breaker in a lead to such heater and switch actuated by the flow of abnormal current therethrough.

1,695,262. METHOD OF CIRCULATING AIR PAST THE HEATING SURFACES OF WARM-AIR FURNACES FOR HEATING BUILDINGS WHICH PROVIDES FRESH AIR AND VENTILATION. FREDERICK H. WOOD, Chicago, Ill., assignor to Lettie B. Wood, Chicago, Ill. Filed Feb. 5, 1923. Serial No. 616,913. 9 Claims. (Cl. 126—105.)



1. A method of circulating air through a furnace which consists in maintaining a current of fresh exterior air separate from the current of recirculating air from the rooms of the building while the current of fresh exterior air is being heated.

1,695,263. FLEXIBLE TUBULAR CONDUIT. RAYNALDO P. JACQUES, Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y., a Corporation of New York. Filed June 7, 1927. Serial No. 197,129. 3 Claims. (Cl. 137—75.)



1. A flexible tubular conduit comprising a plurality of duplicate one-piece sections or units, each including a relatively large cylindrical end portion, having a relatively large bore and a contracted end zone constituting the mouth of the bore, and a smaller end portion having a ball-shaped terminal, a reduced neck, and a relatively small bore, the terminal of each section being confined in the larger bore of the next section by the contracted end zone, which constitutes a socket member and is formed to permit limited conduit-flexing movements of said sections.

Patents Nos. 1,695,264 to 1,696,177.

THE

# OFFICIAL GAZETTE

OF THE

# United States Patent Office.

Vol. 377—No. 3. TUESDAY, DECEMBER 18, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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| Designs | 67—No. | 77,213 to No. | 77,279, inclusive. |
| Patents | 914—No. | 1,695,264 to No. | 1,696,177, inclusive. |
| Total | 1,351 | | |

## Changes in Classification.

Order No. 3,087, November 21, 1928, directs:

In *class 81, Tools* (Division 29), establish the following subclass and definition, the patents contained in this subclass having been taken from class 81, subclass 9.5, Wire strippers:

Wire strippers
9.51 Bench tools.

9.51. WIRE STRIPPERS, BENCH TOOLS. Devices under subclass 9.5 which have a fixed base.

In *class 128, Surgery* (Division 43), establish the following subclass and definition, the patents contained in this subclass having been taken from class 36, Boots, Shoes, and Leggings, subclass 71, Pads and foot supporters, and from other subclasses in class 128:

Bandaging
Bandages
Arm and leg
166.5 Arch.

166.5. BANDAGING, BANDAGES, ARM AND LEG, ARCH. Arch-supporting bandages and arch supports provided with bandage structure for holding them in place on the foot.

Note.—All arch supports forming part of a shoe and those adapted to be worn within the shoe not provided with bandage structure are found in class 36, Boots, Shoes, and Leggings, subclass 71, Pads and foot supporters.

## Interference Notices.

U. S. Patent Office, *Washington, Nov. 21, 1928.*

*Chas. Anderson, his assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Limoneira Company, Santa Paula, Calif., for registration of a trade-mark and trade-mark registered December 11, 1923, No. 177,148, to Chas. Anderson, Wasco, Calif., and a notice of such declaration sent by registered mail to said Chas. Anderson at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Chas. Anderson, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

U. S. Patent Office, *Washington, Dec. 6, 1928.*

*Standard Portland Cement Company, its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Missouri Portland Cement Company, of 1010 Pine Street, St. Louis, Mo., for registration of trade-mark and trade-mark registered October 20, 1914, No. 100,442, to Standard Portland Cement Company, of Charleston, S. C., and a notice of such declaration sent by registered mail to said Standard Portland Cement Company at the said address having been returned by the post office as undeliverable, and it being alleged that the Standard Portland Cement Company has been dissolved, notice is hereby given that unless said Standard Portland Cement Company, its assigns, or legal representatives shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Notice of Cancellation.

U. S. Patent Office, *Washington, Dec. 1, 1928.*

*Apex Steel Corporation, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Apex Steel Corporation, of 50 Church Street, New York, N. Y., No. 126,985, dated October 21, 1919, and the notice of such proceeding sent by registered mail to the said Apex Steel Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Apex Steel Corporation, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications under Examination at Close of Business December 7, 1928.

| Room No. | (Total number of applications awaiting action, excluding Trade-Mark Division, 100,430; Trade-Mark Division, 2,020: Oldest new case, Feb. 1, 1928; oldest amended, Feb. 1, 1928. The dates given are 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
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| 331 | 3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment | Mar. 26 | Apr. 13 | 1,269 |
| 234 | 4. MERRITT, A. D., Conveyers; Hoists; Handling Apparatus; Excavating | Mar. 21 | Mar. 19 | 1,460 |
| 108* | 5. MACNAB, J. F., Harvesters; Music; Acoustics; Sound Recording; Knotters | Feb. 27 | Feb. 27 | 1,452 |
| 318 | 6. LEWERS, A. M., Carbon Chemistry; Dyeing; Explosives; Sugar and Starch | Feb. 6 | Feb. 25 | 2,547 |
| 106 | 7. JARBOE, C. O., Optics; Photography | Feb. 29 | Mar. 1 | 1,908 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Mar. 10 | May 23 | 1,515 |
| 221 | 9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors | Apr. 23 | Apr. 11 | 1,769 |
| 118 | 10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Bodies and Tops | Mar. 19 | Apr. 4 | 1,705 |
| 148* | 11. ARMSTRONG, H. C., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus. | June 12 | June 25 | 837 |
| 380 | 12. PIERCE, P. P., Machine Elements | Mar. 29 | Mar. 19 | 1,869 |
| 154* | 13. CLIFT, J. W., Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Working; Needle and Pin Making; Turning; Boring and Drilling. | Mar. 10 | Apr. 6 | 1,482 |
| 102* | 14. BRUMBAUGH, N. J., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet-Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Assembling, and Blanks and Processes. | Mar. 8 | Mar. 9 | 1,130 |
| 329 | 15. WORRELL, L. W., Glass; Plastic Block and Earthenware Apparatus; Plastics | Mar. 5 | Mar. 7 | 2,662 |
| 242* | 16. SPENCER, C. J., Telegraphy; Telephony | Mar. 27 | May 7 | 1,230 |
| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Mar. 21 | Mar. 28 | 1,389 |
| 229 | 18. PORTER, M. E., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices | Feb. 8 | Feb. 8 | 1,765 |
| 236 | 19. GLASCOCK, E. S., Furnaces; Heating Systems; Liquid and Gaseous Fuel Burners; Stoves and Furnaces. | Apr. 2 | Apr. 4 | 1,935 |
| 179 | 20. GROVE, S. D., Miscellaneous Hardware; Closure Fasteners; Locks and Latches; Safes; Undertaking. | May 31 | May 31 | 1,447 |
| 212 | 21. THURBUR, W. L., Textiles; Cloth Finishing | Mar. 30 | Apr. 11 | 993 |
| 244* | 22. COLWELL, J. H., Aeronautics; Firearms, Ordnance, and Explosive Devices; Air Guns, Catapults, and Targets; Boats and Buoys; Ships; Marine Propulsion. | Feb. 20 | Feb. 25 | 1,598 |
| 217 | 23. GROESBECK, W. D., Coin Handling; Recorders; Registers | Feb. 11 | Feb. 11 | 1,115 |
| 147* | 24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines | Mar. 15 | Mar. 20 | 1,480 |
| 202* | 25. LIGHTFOOT, J. H., Agitating; Butchering; Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors. | Apr. 12 | May 2 | 1,694 |
| 228* | 26. HODGES, J. S., Electricity, Generation; Motive Power | Apr. 5 | Mar. 12 | 1,170 |
| 214 | 27. ANDERSON, L. S., Brush, Broom, and Mop Making; Brushing, Scrubbing, and General Cleaning; Laundry; Washing Apparatus. | Apr. 21 | Apr. 23 | 1,524 |
| 225 | 28. BENSON, A. R., Internal-Combustion Engines | Mar. 27 | Mar. 28 | 1,786 |
| 160* | 29. MORRIS, B. N., Woodworking; Tools; Compound Tools | Apr. 6 | Apr. 4 | 991 |
| 248 | 30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats. | Mar. 14 | June 25 | 1,490 |
| 312 | 31. HOLMES, W. N., Ammonia, Water, and Wood Distillation; Charcoal and Coke; Gas, Heating and Illuminating; Mineral Oils. | Mar. 20 | Mar. 9 | 2,092 |
| 249 | 32. BARTHOLOMEW, J. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation | Feb. 17 | Feb. 23 | 2,046 |
| 152 | 33. WYMAN, W. I., Bridges; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs; Wooden Buildings. | July 2 | July 2 | 1,946 |
| 304 | 34. SIMPSON, G. R., Electricity, Transmission to Vehicles; Pneumatic Dispatch; Railways, Rolling Stock, Switches, and Signals; Store Service; Vehicle Fenders. | Feb. 16 | Mar. 1 | 1,306 |
| 116* | 35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card and Sign Exhibiting; Signals; Toilet | June 2 | June 8 | 1,630 |
| 105 | 36. MORTON, G. L., Automatic Weighers; Geometrical and Measuring Instruments; Force Measuring | Apr. 4 | Apr. 6 | 2,136 |
| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Mar. 1 | Feb. 4 | 2,388 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Apr. 9 | Apr. 14 | 1,913 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Mar. 8 | Mar. 5 | 1,920 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Mar. 1 | Apr. 20 | 2,744 |
| 125 | 41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 7 | Mar. 21 | 1,374 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Feb. 25 | Mar. 28 | 1,532 |
| 124* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Feb. 27 | Apr. 2 | 2,292 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Mar. 21 | Mar. 22 | 1,944 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Mar. 5 | Mar. 9 | 2,482 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Feb. 29 | Mar. 10 | 1,778 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 15 | Mar. 27 | 1,969 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Mar. 15 | Mar. 15 | 1,518 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Apr. 18 | Apr. 20 | 1,400 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Mar. 21 | Mar. 30 | 2,631 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Mar. 3 | Mar. 2 | 2,221 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Apr. 9 | Apr. 9 | 2,257 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | May 31 | May 24 | 1,777 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Mar. 7 | Mar. 14 | 2,281 |
| 102 | 55. BOWEN, S. T.—{Bread, Pastry, and Confection Making; Cutlery | Mar. 24 | Mar. 26 | 744 |
| | {Designs | Nov. 6 | Nov. 23 | 471 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Feb. 7 | Feb. 7 | 2,414 |
| 257* | 57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Mar. 3 | Feb. 18 | 1,111 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Feb. 10 | Feb. 13 | 1,366 |
| 315 | 59. RICHARD, V. I., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Feb. 1 | Feb. 1 | 2,856 |
| 213* | 60. GLASS, R. L., Electricity; Heating and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Feb. 25 | Mar. 3 | 1,683 |
| 269 | 61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 11 | Mar. 1 | 2,271 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Feb. 11 | Mar. 30 | 2,679 |
| 163 | TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks | Nov. 5 | Nov. 12 | 1,925 |
| | {Labels and Prints | Nov. 20 | Nov. 26 | 95 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decisions.

### BAKER v. THE TRUMBULL ELECTRIC MANUFACTURING COMPANY.

*Decided August 13, 1928.*

TRADE-MARKS—SIMILARITY—"SANACHINA" AND "SAMSONCHINA" NOT DECEPTIVELY SIMILAR.

The notation "Sanachina" as used upon bathtub fixtures *Held* not deceptively similar to the term "Samsonchina" as applied to the same class of goods.

APPEAL from Examiner of Interferences.

Opposition No. 7,155 to registration of trade-mark of The Trumbull Electric Manufacturing Company, for hardware and plumbing supplies. Application filed December 5, 1925, Serial No. 224,308, published March 23, 1926.

*Messrs. Kenyon & Kenyon* for Baker.

*Mr. Robert Starr Allyn* for The Trumbull Electric Manufacturing Company.

KINNAN, *First Assistant Commissioner:*

This case comes on for review on appeal of the opposer, Stephen D. Baker, of the decision of the Examiner of Trade-Mark Interferences dismissing the opposition and adjudging the applicant, The Trumbull Electric Manufacturing Company, entitled to the registration for which it has applied.

The applicant seeks registration of the notation "Sanachina," used upon bathtub fixtures of the character recited in detail in the application. The opposer alleges adoption and use from a date long prior to that claimed by the applicant company of the trade-mark "Samsonchina," used upon the same class of goods, and refers to ownership of Trade-Mark No. 159,271, issued September 26, 1922.

Neither party has taken testimony, but briefs have been filed. The applicant includes in its brief reference to a number of registrations prior to that granted the opposer which disclose the use of a notation "San" or "Sani" as a prefix for various trade-mark notations used in connection with goods other than those upon which the parties to the case at bar use their respective trade-marks. These prior notices of registration are not pleaded in the answer. While this Office may take judicial notice of the fact of registration of these marks, yet the Office has no information as to whether any of them are still in use or whether all of them have been abandoned.

As was stated by the Examiner, the common portion of the two marks, "China," is merely descriptive of the goods, and neither party has any exclusive rights in connection with such word. The two prefixes, since both marks are written as a single notation, have different meanings or significance and have different letters which are different in number. While there is a slight similarity when the two notations are looked at in their entirety, yet it is believed this similarity is due more to the presence of the common descriptive word than to the similarity of the prefixes. As suggested by the applicant company, "Sana" suggests sanitary, while "Samson" suggests strength. It is believed there is no probability of confusion by purchasers who exercise any care at all if the two marks appear upon the same goods in the same market.

The decision of the Examiner of Trade-Mark Interferences dismissing the opposition and adjudging the applicant company entitled to the registration for which it has applied is affirmed.

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### EX PARTE CROSLEY, JR.

*Decided July 15, 1927.*

PATENTABILITY—INVENTION—SUBSTITUTION OF A SWIVELING WHEEL IN A BABY WALKER NOT.

The substitution of the swiveling wheel of the D. patent for the nonswiveling wheel of the C. patent for a baby walker *Held* not inventive, since the D. patent suggests that the wheel arrangement stabilizes the vehicle and prevents it from tipping and on such substitution only the expected results, as intimated in the D. patent, follow.

[This application has resulted in Patent No. 1,661,411.]

Appeal from Examiners in Chief.

*Mr. Clarence Perdew* and *Messrs. Allen & Allen* for the applicant.

MOORE, *Assistant Commissioner:*

This is an appeal from the decision of the Examiners in Chief affirming the decision of the Examiner finally rejecting claims 5 and 6, of which the following serves as an example:

6. A baby walker comprising a rear structure having wheels laterally spaced thereon to prevent tipping and of non-swiveling type, a front structure having swiveling casters interspaced to prevent tipping, means connecting the front and rear structures and serving to hold said structures rigidly with each other so that neither structure will rotate with relation to the other, said means so constructed as to permit a baby to stand vertically between the front and rear structures, and means surrounding the baby to a level above the waist, and united with the elements hereinbefore noted, and arranged to prevent the baby from reaching a position vertically over a line passing through the said front casters.

The references are: Carroll, 1,492,202, April 29, 1924; Archibald, 1,334,583, March 23, 1920; Doolittle, 539,041, May 14, 1895; Darrach, 130,283, August 6, 1872; Leonard, 1,527,419, February 24, 1925.

The invention relates to a baby walker in the form of a seat having rear and front supporting wheels with a guard ring mounted above the seat to support the baby thereon and prevent his falling therefrom. The rear wheels are nonswiveling, while the front wheels are casters of the usual swivel type.

A baby walker of this general type but with nonswiveling wheels at the front is shown by patent to Carroll in Figure 6. The use of swiveling wheels at the front of vehicles of this type to allow the vehicle to be moved in any desired direction is old in the prior art, being shown by any one of the patents to Leonard, Darrach, or Doolittle et al.

Appellant contends that the baby walker provided with swiveling caster wheels in front not only allows the baby to push the vehicle in all directions with his feet, but produces the new and unobvious func-

tion of rendering the vehicle safe for a baby by preventing it from tipping over. While a slight change in structure which would produce a safe vehicle for small children may under certain cases be patentable, as indicated in the copy of the decision filed subsequently to the hearing, nevertheless the patent to Darrach points out that the construction there shown, using nonswiveling rear wheels and swiveling front wheels, not only allows motion of the vehicle in a desired direction, but also that the wheel arrangement prevents the apparatus from swaying (p. 1, lines 34 to 38). That is, the Darrach patent contains the suggestion that the wheel arrangement shown stabilizes the vehicle and prevents it from tipping over. There is accordingly no invention in using the Darrach wheel arrangement on the Carroll device, because on substituting such wheel arrangement only the expected results as intimated by Darrach follow.

The reference to the commercial success of the device has been noted. While it may be permissible to use evidence of commercial success to resolve a question of doubt as to patentability in the inventor's favor, when such doubt does not exist the question of commercial success has no bearing on the question of patentability.

The decision of the Examiners in Chief is affirmed.

## Court of Appeals of the District of Columbia.

GERSTENDORFER BROS. *v.* UNITED SUPPLY COMPANY.

*No. 2,939. Decided May 7, 1928.*

TRADE-MARKS—LIKELIHOOD OF CONFUSION.

Where one party used the word "Sapolin" as a trade-mark for paints, enamels, etc., and the other used the word "Samoline" and that word and a picture of a boy in a dress suit designated as "Little Sammy Samoline" as trade-marks for a cleaning material for wood and metal, *Held* that, in view of the dissimilarity of the marks and the dissimilarity of the goods, there was no likelihood of confusion.

APPEAL from the Commissioner of Patents. Affirmed.

*Mr. Louis Alexander* for Gerstendorfer Bros.

*Mr. Fred Gerlach* for United Supply Company.

Before MARTIN, Chief Justice, and ROSS and VAN ORSDEL, Associate Justices.

VAN ORSDEL, *J.:*

Appellant, Gerstendorfer Bros., appeals from the decision of the Commissioner of Patents dismissing their petition for the cancellation of two registered trade-marks owned by appellee company. One mark, registered in 1913, consists of the word "Samoline;" and the other mark, registered in 1925, consists of a figure of a boy of the "Jackie Coogan" type attired in a dress suit and designated as "Little-Sammy Samoline," associated with the word "Samoline." These marks are used as trade-marks for a cleaning material for wood, metal, and other objects.

Appellant petitioner's mark consists of the word "Sapolin," and is used as a trade-mark for paints, enamels, varnishes, lacquers, wood stains, and furniture polish.

The petition is grounded upon the similarity of the marks and their use upon goods of the same descriptive properties to an extent that would be likely to cause confusion in trade.

It was held by the tribunals below that the goods are not of the same descriptive properties; and that, therefore, there can be no likelihood of confusion. If the marks were exactly similar this contention might have more force, but when we consider the dissimilarity of the marks and the dissimilarity of the use to which the goods are appropriated, we are of opinion that the likelihood of confusion is quite remote.

Considering the doubt thus raised in connection with the fact that the trade-mark "Samoline" has been appropriated and used on the goods produced by appellee company for more than 15 years, and that no objection was interposed by the petitioner company, we agree with the holding of the Commissioner that—

> under these circumstances this Office would not be justified in disturbing in any way at this time the registrant's rights respecting its trade-marks. If the petitioners ever had any right to oppose the right of the registrant to register its marks, such right of the petitioners has been lost by laches. *France Milling Co. v. Washburn-Crosby Co.*, 7 Fed. (2nd) 304; *White Rock Co. v. Akron Co.*, 299 Fed. 775; *Rectanus Co. v. United Drug Co.*, 226 Fed. 554.

The decision of the Commissioner is affirmed.

## Court of Appeals of the District of Columbia.

UNITED STATES, EX REL. MISHAWAKA RUBBER AND WOOLEN MANUFACTURING COMPANY, *v.* ROBERTSON, COMMISSIONER OF PATENTS.

*No. 4,722. Decided November 5, 1928.*

1. MANDAMUS—RULE 114—DISCRETION OF THE COMMISSIONER.

"The purpose of this rule [114], obviously, is to expedite proceedings in the Patent Office by eliminating parties whose applications are clearly lacking in merit; but the application of the rule in a given case, if orderly procedure in the Patent Office is to be observed, is primarily for the determination of the Commissioner of Patents. If he errs and ultimately awards priority to the wrong party, the aggrieved party has his remedy by way of appeal."

2. SAME.

The writ of mandamus can not be made to perform the function of an appeal or writ of error.

*Mr. E. W. Shepard* for the appellant.

*Mr. T. A. Hostetler* for the Commissioner of Patents.

Before MARTIN, Chief Justice, and ROBB and VAN ORSDEL, Associate Justices.

ROBB, *J.:*

Appeal from a judgment in the Supreme Court of the District dismissing appellant's petition for a writ of mandamus to compel appellee, the Commissioner of Patents, to notify one of the parties to a three-party interference proceeding, whose application was filed prior to the application of appellant but subsequent to the application of the senior party, that judgment on the record would be rendered against him unless he should show cause why such action should not be taken.

The parties to the interference proceeding are Blair, whose application was filed December 22, 1924 (which has been assigned to appellant); Sundback, whose application was filed August 22, 1924; and Prentice, whose application was filed April 28, 1924.

In his preliminary statement, Sundback alleged a date of conception prior to the filing date of Prentice, but his dates of description and disclosure were subsequent to such filing date. Prentice evidently was content to permit the case to go to proof, since he filed no motion to invoke the provisions of Patent Office rule No. 114, which reads in part as follows:

> If the junior party to an interference, or if any party thereto other than the senior party, fail to file a statement, or if his statement fail to overcome the prima facie case made by the respective dates of application, such party shall be notified by the Examiner of Interferences that judgment upon the record will be rendered against him at the expiration of thirty days, unless cause be shown why such action should not be taken.

Appellant, although the junior party to the interference, filed such a motion as against Sundback. The Commissioner denied it, and mandamus proceedings were instituted in the court below.

[1, 2] Under rule 114, if the statement of the junior party to an interference fails to overcome the prima facie case made by the respective dates of application, it becomes the duty of the Examiner of Interferences to notify him to show cause within 30 days why judgment on the record should not be rendered against him. The purpose of this rule, obviously, it to expedite proceedings in the Patent Office by eliminating parties whose applications are clearly lacking in merit; but the application of the rule in a given case, if orderly procedure in the Patent Office is to be observed, is primarily for the determination of the Commissioner of Patents. If he errs and ultimately awards priority to the wrong party, the aggrieved party has his remedy by way of appeal. The writ of mandamus can not be made to perform the function of an appeal or a writ of error. *United States, ex rel. Dwiggins, v. Ewing*, 43 App. D. C. 204, 214 O. G. 1025; *Briggs v. Commissioner of Patents*, 48 App. D. C. 175, 257 O. G. 648.

Moreover, on the record, as observed by the Commissioner of Patents—

> it is not perceived in what way Blair is prejudiced by not issuing an order to show cause against Sundback and rendering judgment against him, even if Blair's contention is right. Blair can not prevail unless he establishes priority over Prentice, the senior party, and it is not seen why he should be permitted to attempt at this time to have the party Sundback eliminated from the interference.

See *Prindle v. Brown*, 24 App. D. C. 114, 118, 112 O. G. 957; *Marx v. Brown*, 57 App. D. C. 177, 18 F. (2d) 827, 365 O. G. 235.

Judgment is affirmed, with costs.

Affirmed.

## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

635,429, G. F. & G. C. Culmer, Making asphaltic fluxes; 635,430, same, Asphaltic flux, C. C. A., 7th Cir., Doc. 3614, *Barber Asphalt Paving Co. v. Standard Asphalt & Rubber Co.* Affirmed (notice Nov. 7, 1928).

635,430. (See 635,429.)

997,922, W. F. Kiesel, jr., Third suspension for brake beams; 997,888, C. H. Williams, jr., same; 1,277,196, F. R. Cornwall, Fourth-point support for brake beams; 1,480,742, E. G. Busse, Mount for third or fourth point support for brake beams, C. C. A., 8d Cir., Doc. 3649, *Chicago Railway Equipment Co. v. Davis Brake Beam Co.* Affirmed Oct. 4, 1928. Doc. 3661, *Davis Brake Beam Co. v. Chicago Railway Equipment Co.* Reversed Oct. 4, 1928.

997,888. (See 997,922.)

1,018,502 (*a*), Just & Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, D. C. N. J., Doc. E 3486, *General Electric Co. v. Industrial Research Laboratories, Inc., et al.* Decree pro confesso as to G. Guidelly Oct. 15, 1928. Same, C. C. A., 3d Cir., Doc. 3701, *Republic Electric Co. et al. v. General Electric Co.* Affirmed as to Republic Electric Co., reversed as to other appellants, July 16, 1928.

1,018,502 (*b*), Just & Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp; 1,082,933, W. D. Coolidge, Tungsten and method of making same for use as filaments of incandescent electric lamps; 1,423,956, Mitchell & White, Tipless incandescent lamp; 1,423,957, same, Stem-making machine, C. C. A., 3d Cir., Doc. 3514, *Desmond Incandescent Lamp Co. et al. v. General Electric Co.* Affirmed July 16, 1928.

1,079,795, F. M. Naysmith, Chiropractic table; 1,269,354, 1,399,419, 1,435,037, 1,448,477, W. G. Williams, same, D. C., S. D. Iowa (Davenport), Doc. E 4097, *Williams Mfg. Co. v. C. H. Jones et al.* Injunction Oct. 30, 1928.

1,082,933. (See 1,018,502 (*b*).)

1,099,626, S. P. Stevenson, Fastener for doors; 1,208,042, same, Closure for compartments, filed Nov. 7, 1928, D. C. Md., Doc. E 1444, *Jamison Cold Storage Door Co. v. Victor Cooler Door Co., Inc.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Nov. 1, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E. O–73–M, *Claude Neon Electrical Products, Inc., v. Arora Products Co., Inc.* Same, filed Nov. 13, 1928, D. C., S. D. N. Y., Doc. E 47/120, *Claude Neon Lights, Inc., v. Air Reduction Co., Inc.* Same, filed Nov. 1, 1928, D. C., N. D. Ill., E. Div., Doc. 8581, *Claude Neon Lights, Inc., et al. v. The Q. R. S. Co. et al.* Same, filed Sept. 27, 1928, D. C., N. D. Ill., E. Div., Doc 8656, *Claude Neon Lights, Inc., et al. v. J. Hingenberg et al.* Doc. 8657, *Claude Neon Lights, Inc., et al. v. La France Neon Corp. et al.* Same, D. C., W. D. Wash. (Seattle), Doc. 587, *Electrical Products Corp. v. Brilliant Tube Sign Co. et al.* Dismissed without prejudice Nov. 17, 1928.

1,132,258. (See 1,219,299.)

1,173,079, E. F. Alexanderson, Selective tuning system; 1,195,632, W. C. White, Circuit connections of electron-discharge apparatus; 1,251,377, A. W. Hull, Method of and means for obtaining constant direct-current potentials; 1,334,118, C. W. Rice, System for amplification of small currents, filed Oct. 22, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–64–M, *Radio Corp. of America et al. v. F. W. Falck (Advance Electric Co.).*

1,180,159. (See 1,018,502 (*a*) and (*b*).)

1,183,875, R. V. Hartley, Electrical circuit; 1,231,764, F. Lowenstein, Telephone relay; 1,465,332, H. D. Arnold, Vacuum-tube amplifier, filed Oct. 22, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–65–M, *Radio Corp. of America et al. v. F. W. Falck (Advance Electric Co.).*

1,195,632. (See 1,173,079.)

1,208,042. (See 1,099,626.)

1,214,168, Johnson & Benson, Edible container; T. M. 210,925, Des. 67,018, J. Denaro, Edible pastry container, filed Oct. 22, 1928. D. C. N. J., Doc. E 3635, *American Pastry Products Corp. v. Independent Biscuit Co. et al.*

1,219,299, E. M. Hall, Burr for treating grindstones; 1,132,258, same, Process and apparatus for reducing wood to pulp, appeal filed Oct. 31, 1928, C. C. A., 2d Cir., Doc. 10220, *Wood Grinding Service, Inc., v. International Burr Corp.*

1,222,144, 1,225,362, W. M. Ruthrauff, Dentifrice, filed Oct. 30, 1928, D. C. Dela., Doc. E 696, *F. R. Hoover v. Eckerds Cut Rate Medicine Co., Inc.*

1,225,362. (See 1,222,144.)

1,226,985, 1,523,994, G. F. Myers, Flying machine; 1,459,411, 1,608,109, same, Vehicle; 1,485,349 same, Air-

craft, filed Oct. 24, 1928, D. C., E. D. N. Y., Doc. 3900, *G. F. Myers* v. *Sikorsky Aviation Corp.*

1,231,764. (See 1,183,875.)

1,251,377. (See 1,173,079.)

1,269,354. (See 1,079,795.)

1,277,196. (See 997,922.)

1,303,971. (See 1,369,663.)

1,334,118. (See 1,173,079.)

1,369,663, 1,371,028, W. E. Hosch, Cloth measuring and computing machine; Re. 14,898, L. L. Scott, Cloth-measuring machine; 1,437,207, J. F. Stocke, Machine for measuring textile fabric; 1,453,300, J. L. Wheeler, Mounting for measuring machines, C. C. A., 8th Cir. (St. Louis), Doc. 7991, *Measuregraph Co.* v. *Grand Rapids Show Case Co.* Affirmed Nov. 2, 1928.

1,371,028. (See 1,369,663.)

1,399,419. (See 1,079,795.)

1,423,956. (See 1,018,502 (*b*).)

1,423,957. (See 1,018,502 (*b*).)

1,435,037. (See 1,079,795.)

1,437,207. (See 1,369,663.)

1,448,477. (See 1,079,795.)

1,449,102, F. Hayduck, Manufacture of compressed yeast and the product; 1,449,105, 1,449,106, same, Low-alcohol yeast process; 1,475,215, A. Wohl, Method for the production of yeast, filed Aug. 31, 1928, D. C. Md., Doc. E 1421, *The Fleischmann Co.* v. *Federal Yeast Corp.*

1,449,105. (See 1,449,102.)

1,449,106. (See 1,449,102.)

1,453,300. (See 1,369,663.)

1,456,528, H. D. Arnold, Electric discharge device; 1,459,412, A. M. Nicolson, Thermionic translating device, filed Oct. 9, 1928, D. C., E. D. N. Y., Doc. 3875, *Radio Corp. of America et al.* v. *Williamsburgh Electric Supply Co.*

1,459,411. (See 1,226, 985.)

1,459,412. (See 1,456,528.)

1,465,332. (See 1,183,875.)

1,466,083, S. Bo, Method of making plastic bodies from coal ashes and a plastic body made from such method, D. C. N. J., Doc. E 2161, *Cinder Products Corp.* v. *G. C. Russo.* Dismissed Sept. 11, 1928.

1,470,524, H. B. Burt, Process of making frozen confection; 1,505,592, F. W. Epperson, Frozen confectionery, D. C. N. J., Doc. E 3483, *Popsicle Corp. et al.* v. *S. Kaplan et al.* Consent decree Sept. 17, 1928. Same, filed Aug. 16, 1928, D. C. N. J., Doc. E 3514, *Popsicle Corp et al.* v. *Purity Ice Cream Co., Inc., et al.*

1,475,215. (See 1,449,102.)

1,480,742. (See 997,922.)

1,485,349. (See 1,226,985.)

1,493,521. (See 1,576,138.)

1,497,293, J. Denaro, Automatic ice-cream-cone machine; 1,615,799, same, Automatic machine for making cup pastry, filed July 25, 1928, D. C. Md., Doc. E 1415, *J. Denaro* v. *The Maryland Baking Co.*

1,505,592. (See 1,470,524.)

1,523,994. (See 1,226,985.)

1,558,437, I. Langmuir, Electrical discharge apparatus; Re. 15,278, same, Electron-discharge apparatus, filed Oct. 9, 1928, D. C., E. D. N. Y., Doc. 3873, *Radio Corp. of America et al.* v. *Williamsburgh Electric Supply Corp.*

1,564,566. (See 1,605,633.)

1,576,135. (See 1,576,138.)

1,576,138, A. C. McBride, Brake-band-relining machine; 1,576,135, Corson & Wright, Mechanism for drilling and applying brake-band linings; 1,493,521, same, Method for drilling and applying brake-band linings, C. C. A., 3d Cir., Doc. 3885, *Wright & Corson Co.* v. *Thermoid Rubber Co.* Affirmed Oct. 6, 1928.

1,605,633. A. F. Wright, Drying apparatus; 1,605,634, same, Drying; 1,564,566, G. D. Harris, Drying material; 1,667,315, same, Method of conditioning shoes and analogous products, filed Oct. 30, 1928, D. C., E. D. N. Y., Doc. 3915, *The Industrial Dryer Corp.* v. *Cantilever Corp.*

1,605,634. (See 1,605,633.)

1,608,109. (See 1,226,985.)

1,615,799. (See 1,497,293.)

1,667,315. (See 1,605,633.)

Re. 14,898. (See 1,369,663.)

Re. 15,278. (See 1,558,437.)

Des. 67,018. (See 1,214,168.)

Des. 69,426, H. Abrams, Canopy for lighting fixtures; Des. 69,427, same, Arm for lighting fixtures; Des. 69,428, Segmental portion for lighting fixtures; Des. 69,728, same, Plate for lighting fixtures, filed Aug. 16, 1928, D. C. N. J., Doc. E 3513, *Crescent Brass Mfg. Co.* v. *Binders Electric Co.*

Des. 69,427. (See Des. 69,426.)

Des. 69,428. (See Des. 69,426.)

Des. 69,728. (See Des. 69,426.)

Des. 72,596, R. G. Cowan, Flower holder; Des. 72,638, W. A. Sinz, same, D. C., N. D. Ohio, E. Div., Doc. 2581, *Cowan Pottery Studio, Inc.*, v. *Strauss-Hirshberg Co.* Consent decree for plaintiff Nov. 7, 1928.

Des. 72,638. (See Des. 72,596.)

T. M. 210,925. (See 1,214,168.)

## Adjudicated Patents.

(C. C. A. Mo.) Pederson patent, No. 1,418,162, for fabric-measuring chart and roller therefor, claim 1 *Held* invalid. *Grand Rapids Showcase Co.* v. *Measuregraph Co.*, 28 F (2d) 497.

(C. C. A. Mo.) Hosch patent, No. 1,434,998, for cloth-measuring and price-computing machine, claim 2 *Held* valid, but not infringed. *Id.*

(C. C. A. Mo.) Pederson patent, No. 1,463,589, for process of adjusting measuring machines, claims 1 and 4 *Held* invalid. *Id.*

(C. C. A. Mo.) Hosch design patent, No. 48,248, for design for cloth-measuring and price-computing machine, *Held* valid, but not infringed. *Id.*

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 1,617,159, C. Knowles, Hob-grinding machine, decided November 10, 1928, claims 12 to 15, inclusive.

Pat. 1,637,998, J. N. Heltzel, Curb and gutter form, decided November 6, 1928, claims 26 to 28, inclusive.

Final decisions in interference have been rendered against the following trade-marks:

T. M. 178,112, Varnish, John C. Dolph Company, Newark, N. J. Registered January 8, 1924. Decided November 20, 1928.

T. M. 238,374, Utensil handle, Racine Iron and Wire Works, Racine, Wis. Registered February 7, 1928. Decided November 8, 1928.

CORRECTION.

T. M. 222,631, Liquid motor fuel, The Denver Powerine Company (The Powerine Company substituted), Denver, Colo. The decision of October 19, 1928, was in favor of the registrant. (Correcting notice appearing in 376, O. G. 777.)

# TRADE-MARKS

OFFICIAL GAZETTE, DECEMBER 18, 1928.

[VOL. 377. No. 3.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 249,101. THE SAWYER TANNING COMPANY, Napa, Calif. Filed May 16, 1927.




Applicant disclaims the words "Napa, California, U. S. A.," and "Leathers" apart from the mark as shown.

For Shoe Upper Leather, Glove Leather, and Coat Leather.

Claims use since Mar. 1, 1927.

Ser. No. 272,865. HERMANN CONRADS, San Marcos, Tex. Filed Sept. 24, 1928.




The words "The Quality Cotton" and "Pedigreed Cottonseed" are disclaimed apart from the other features of the mark shown on the drawing.

For Cottonseed.

Claims use since Dec. 1, 1923.

Ser. No. 273,783. LOUIS R. SERBINSKY, doing business as Cinelin Company, Indianapolis, Ind. Filed Oct. 13, 1928.

**Cinelin**

For Cellulose-Acetate Plastics and Pyroxylin Plastics.

Claims use since Jan. 14, 1926.

## CLASS 2.

### Receptacles.

Ser. No. 264,271. AWON TINWARE MFG. CORP., Brooklyn, N. Y. Filed Apr. 4, 1928.




For Garbage Cans.

Claims use since July 27, 1927.

Ser. No. 273,199. MERRIMAC CHEMICAL COMPANY, Boston, Mass. Filed Oct. 1, 1928.




The crosshatching forming the letter "M" represents a lighter shade of color than the solid printing matter.

For Paper Plates.

Claims use since Aug. 31, 1928.

Ser. No. 273,931. OWENS MANUFACTURING CO., Hoboken, N. J. Filed Oct. 17, 1928.

SECTION-ET

For Boxes, Such as Boxes with a Plurality of Compartments.
Claims use since June 22, 1928.

## CLASS 3.

**Baggage, Animal Equipments, Portfolios, and Pocketbooks.**

Ser. No. 273,141. HARTMANN TRUNK COMPANY, Racine, Wis. Filed Sept. 29, 1928.

DEBONAIR

For Wardrobe Cases, Suitcases, Luggage Hatboxes, and Hand Carrying Cases.
Claims use since Sept. 19, 1928.

## CLASS 4.

**Abrasive, Detergent, and Polishing Materials.**

Ser. No. 268,001. SHIELDS & WYLE, INC., Jersey City, N. J. Filed June 13, 1928.




The words "Hand Soap" are disclaimed apart from the mark shown.
For Hand Soap.
Claims use since June 5, 1928.

Ser. No. 272,356. SHIELDS & WYLE, INC., Jersey City, N. J. Filed Sept. 13, 1928.




The lining on the drawing is for the purpose of shading. The word "Cleanser" is disclaimed apart from the mark shown.
For Cleanser for General Household Cleaning.
Claims use since June 5, 1928.

Ser. No. 273,639. ROHM & HAAS COMPANY, Philadelphia, Pa. Filed Oct. 11, 1928.

LUSTRONE

For Finishes in the Nature of Waterproof Lacquers for Use on Leathers and Artificial Leathers.
Claims use since June 23, 1928.

Ser. No. 273,655. FRED M. HAYDEN, doing business as Hayden Products Company, Peoria, Ill. Filed Oct. 11, 1928.

ADVANCED

For General Household Cleaning Preparation with Water-Softening Properties.
Claims use since Sept. 10, 1928.

Ser. No. 273,997. RELIABLE TILE CLEANING SERVICE, New York, N. Y. Filed Oct. 19, 1928.

TILE-ITE

For Tile Cleaner with Incidental Bleaching Properties.
Claims use since Mar. 15, 1928.



Ser. No. 274,160. CLIFFORD J. LARKIN, doing business as Larkin Specialty Co., Everett, Mass. Filed Oct. 23, 1928.

YE-LO

For Metal Polish.
Claims use since Sept. 16, 1927.

Ser. No. 274,555. D'ORSAY, PERFUMERIES CORPORATION, New York, N. Y. Filed Oct. 30, 1928.

toujours fidèle

For Soaps.
Claims use since 1915.

Ser. No. 274,577. SOAP DISTRIBUTING COMPANY, INC., Pittsburgh, Pa. Filed Oct. 30, 1928.

Sodico

For Soap.
Claims use since Oct. 10, 1927.

Ser. No. 274,698. BETTERCLEANING EQUIPMENT & SERVICE INCORPORATED, Akron, Ohio. Filed Nov. 2, 1928.

Certiclean

For Dry-Cleaning Fluid for Textiles, Furs, Leather, Glassware, Enameled and Porcelain Surfaces, and Other Articles and Surfaces.
Claims use since about Oct. 24, 1928.

Ser. No. 274,787. THE MIDLAND CHEMICAL LABORATORIES, INC., Dubuque, Iowa. Filed Nov. 3, 1928.

FLUSHOLEUM

For a Preparation of Acids and Other Ingredients for the Removal of Rust and Stains of Marble and Other Hard and Smooth Surfaces.
Claims use since about Aug. 20, 1927.

Ser. No. 274,802. SLITE-O-HAND MANUFACTURING COMPANY, Detroit, Mich. Filed Nov. 8, 1928.

Slite-O-Hand

For Soap.
Claims use since Aug. 15, 1928.

## CLASS 5.

**Adhesives.**

Ser. No. 271,924. DIAMALT-AKTIEN-GESELLSCHAFT, Munich, Germany. Filed Sept. 5, 1928.

Diagum

For Starch Paste, Glue, and Vegetable Glue.
Claims use since Apr. 22, 1910.

## CLASS 6.

**Chemicals, Medicines, and Pharmaceutical Preparations.**

Ser. No. 217,750. THE ARMAND COMPANY, Des Moines, Iowa. Filed July 28, 1925.



The figure is fanciful.
For Face Powder, Talcum Powder, Cold-Cream Powder, Compact Powder, Rouge, Cold-Cream Rouge, Cold Cream, Vanishing Cream, Lip-Stick Rouge, Hair Wash, Tooth Paste, Shampoo Preparation, Perfume, and Astringent.
Claims use since February, 1925.

Ser. No. 217,751. THE ARMAND COMPANY, Des Moines, Iowa. Filed July 23, 1925.



The drawing is lined to show the colors lavender, blue, yellow, and pink. The figure is fanciful.

For Face Powder, Talcum Powder, Cold-Cream Powder, Compact Powder, Rouge, Cold-Cream Rouge, Cold Cream, Vanishing Cream, Lip-Stick Rouge, Hair Wash, Tooth Paste, Shampoo Preparations, Perfume, and Astringent.

Claims use since February, 1925.

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Ser. No. 261,379. HOWARD O. OTTEN, doing business as Puratone Products Company, St. Joseph, Mo. Filed Feb. 8, 1928.

Puratone

The lining on the drawing indicates the color red.

For Stomachic Tonic and System Cleanser.

Claims use since Mar. 10, 1927.

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Ser. No. 261,475. THE ARMAND COMPANY, Des Moines, Iowa. Filed Feb. 10, 1928.

Beau "K"

For Perfume.

Claims use since Nov. 1, 1927.

Ser. No. 262,004. VINCE LABORATORIES, Yonkers, N. Y. Filed Feb. 20, 1928.

POWDERED VINCE SODIUM PERBORATE AROMATIZED

No claim is made to the words "Powdered Sodium Perborate Aromatized" apart from the mark shown.

For Mouth Wash.

Claims use since Jan. 2, 1927.

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Ser. No. 265,801. OEHME & BAIER, Leipzig, Germany. Filed May 2, 1928.



For Colors for Confectionery.

Claims use since Jan. 1, 1894.

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Ser. No. 266,410. AGRICULTURAL CHEMICAL WORKS, INC., Los Angeles, Calif. Filed May 15, 1928.

END-O-PEST

For Mealike Substance Used in Destroying Garden and Lawn Insects.

Claims use since Apr. 23, 1928.



Ser. No. 266,768. ZENA IRMA TRINKA, doing business as Z. I. Trinka Co., Lidgerwood, N. Dak. Filed May 21, 1928.

AMERICAN



The geographical name or term "American" is disclaimed apart from the mark as shown. The portrait forming a feature of the mark is fanciful.

For Salves: Whose Specific Medicinal Use is for Open and Running Leg Sores, Old Wounds, Carbuncles, Boils, and Bruises.

Claims use since Feb. 20, 1928.

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Ser. No. 268,736. LEVI O. KITTLE, doing business as Wavex Sales Company, Los Angeles, Calif. Filed June 27, 1928.

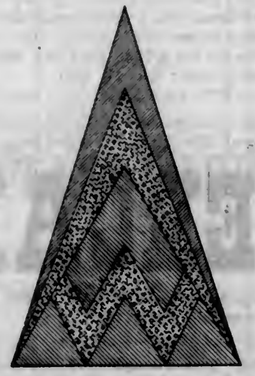
WAVEX

For Finger-Waving Preparations.

Claims use since May 12, 1928.

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Ser. No. 268,737. LEVI O. KITTLE, doing business as Wavex Sales Company, Los Angeles, Calif. Filed June 27, 1928.



The trade-mark as shown in the drawing embodies several different areas in three separate colors—viz, purple, orange, and green. As shown in the drawing the inverted V-shaped marginal portion is in purple, and the inner V-shaped portion adjacent thereto, together with the W-shaped portion, is in orange, and the remaining portions are in green.

For Finger-Waving Preparations.

Claims use since May 12, 1928.

Ser. No. 269,086. CAVENDISH CHEMICAL CORP., New York, N. Y. Filed July 5, 1928.

LIPOLYSIN

For Preparation for Treatment of Obesity.

Claims use since about February, 1924.

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Ser. No. 270,094. PINE TREE PRODUCTS COMPANY, Newport, N. H. Filed July 24, 1928.

Billy B. Van's PINE TREE

The name "Billy B. Van's" is a facsimile of the signature of the registrant.

For Ointment Used in the Treatment of Eczema, Pimples, Eruptions, Chapped Skin, Cuts, Burns, Chafing, Bruises, Sunburn, Piles, Chilblains, Bites and Stings of Insects, Dandruff, Itch, Poison Ivy, and as an Aid in the Treatment of Inflammation and Congestion—Namely, Croup, Asthma, Bronchitis, Pneumonia, Catarrh, Head Colds, Sore Throat, Neuralgia, Whooping Cough, Chest Colds, and Rheumatism.

Claims use since Mar. 15, 1925.

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Ser. No. 270,461. PHILIPPE NAPOLEON BOUDREAULT, Montreal, Quebec, Canada. Filed Aug. 2, 1928.

PÉTROLE ROGIER

The word "Pétrole" is disclaimed. The signature is that of R. R. Rogier.

For Hair Tonic.

Claims use since July 1, 1927.

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Ser. No. 270,700. THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Aug. 7, 1928.




For Herbs, Juniper Berries, Chamomile Flowers, Flaxseed Meal, Senna, Alum, Copperas, Rosin, Saltpetre, Tur-

pentine, Saffron, Camphor, Syrup of Rhubarb, and Mineral Oil, All of the Foregoing Being Used as Medicines; Ammonia, Laundry Blue, Boric Acid, Hydrogen Peroxide, Cough Syrup, Aromatic Spirits of Ammonia, Arnica, Camphorated Oil, Camphorated Mustard Oil, Castor Oil, Castor Oil (Aromatic), Iodine, Sweet Spirits of Nitre, Cold Cream, Vanishing Cream, Bay Rum, Glycerine, Witch-Hazel, Rose Water and Glycerine, Sour Salts, Food Colors, and Insecticides.

Claims use since July 1, 1918, on aromatic spirits of ammonia, turpentine, arnica, camphorated oil, camphorated mustard oil, camphor, castor oil, iodine, sweet spirits of nitre, syrup of rhubarb, mineral oil, bay rum, glycerine, witch-hazel, rose water and glycerine, and laundry blue; on herbs since July 1, 1919; on ammonia since July 1, 1922; on juniper berries, chamomile flowers, alum, copperas, rosin, saltpetre, hydrogen peroxide, castor oil (aromatic), sour salts, and insecticides since July 1, 1924; on saffron and cough syrup since July 1, 1926; and on cold cream and vanishing cream since July 1, 1927.

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Ser. No. 270,724. GEORGE A. ROSTETTER, doing business as The Rostetter Laboratories, Canton, Kans. Filed Aug. 7, 1928.

**MINERO-VI-TONE**

For Medicinal Preparation in the Form of a Powder Used as a Body Builder and Tonic to Assist in Overcoming Rickets, Leg Weakness, Paralysis, Scurvy and Similar Diseases, and for Physical Deterioration, to Aid Digestion and Assimilation, Increase Growth, Weight, Vigor, Vitality, and Fertility, to Stimulate the Secretory Glands and the System in General, of Poultry and Livestock.

Claims use since October, 1927.

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Ser. No. 271,068. GABAL SALES CORPORATION, New York, N. Y. Filed Aug. 15, 1928.

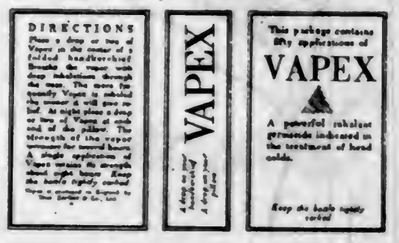



For Medicinal Bitters.

Claims use since January, 1928.

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Ser. No. 271,091. THOMAS KERFOOT & CO., LIMITED, Bardsley, England. Filed Aug. 15, 1928.




The drawing is lined to indicate the color green, which is claimed as a feature of the mark. Exclusive use of all the wording with the exception of the word "Vapex" is disclaimed apart from the mark shown on the drawing. No claim is made to the representation of a label per se.

For Inhalant.

Claims use since August, 1927.

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Ser. No. 271,396. THE LIPSO COMPANY, Minneapolis, Minn. Filed Aug. 22, 1928.




For Ointment or Salve Particularly Intended for the Treatment of Chapped and Sore Lips.

Claims use since July 5, 1928.

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Ser. No. 271,871. JOSEPH AMSTER, doing business as Squill Manufacturing Co., New York, N. Y. Filed Sept. 4, 1928.



Applicant disclaims the representation of a rat except in the association shown.

For Exterminator for Killing Rats and Mice.

Claims use since about Dec. 15, 1927.

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Ser. No. 271,918. CLIFFORD H. CALKINS, doing business as Tercal Company, Elmira, N. Y. Filed Sept. 5, 1928.

**TERCAL**

For Antifreeze Mixture Used in Automobile Radiators.

Claims use since November, 1922.

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Ser. No. 271,954. DEAN A. ARNOLD, Lansing, Mich. Filed Sept. 6, 1928.

**HOMEX**

For Tonic Laxative.

Claims use since Feb. 2, 1927.



Ser. No. 272,148. DOROTHY GRAY, Bloomfield, N. J. Filed Sept. 10, 1928.

*Aureate*

For Toilet Preparations, as Follows: Face Powder, Powder Compacts, Rouge Compacts, Powder and Rouge Compacts, Powder Refills and Rouge Refills for Such Compacts, and Rouge.

Claims use since 1915.

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Ser. No. 272,153. GEHE & Co., A. G., Dresden, Germany. Filed Sept. 10, 1928.

**Transannon**

For Composition of Calcium and Magnesium in Form of Ions, in Addition with Ol. Salviæ, Ichthyol, and Extr. Aloes, for Use During Pregnancy.

Claims use since 1920.

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Ser. No. 272,154. GEHE & Co., A.-G., Dresden, Germany. Filed Sept. 10, 1928.

**Clavipurin**

For Preparation of Ergot of Rye Containing the Natural Alkaloid Complex for Treating Postoperative Hemorrhages, Functional Uterine Hemorrhages, Grave's Disease, Urinary Incontinency, Migraine, and Like Diseases.

Claims use since 1922.

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Ser. No. 272,282. STERN BROTHERS, New York, N. Y. Filed Sept. 11, 1928.

**PAMELA**

For Filled Vanity Cases Containing Compressed Rouge and Face Powder.

Claims use since Jan. 9, 1928.

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Ser. No. 272,284. THEO. A. KOCHS COMPANY, Chicago, Ill. Filed Sept. 12, 1928.

**PEARL OLIVE**

No claim is made to the word "Olive" except in connection with the word "Pearl."

For Liquid Shampoo.

Claims use since about 1913.

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Ser. No. 272,323. FANNIE L. CAROLINA, Georgetown, S. C. Filed Sept. 13, 1928.

**FAN-O-LIN**

For Preparation for Treating Dandruff, Pressing Oil, and a Preparation for Promoting the Growth of the Hair.

Claims use since June 15, 1928.

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Ser. No. 272,458. ANDERSON-PRICHARD OIL CORPORATION, Oklahoma City, Okla. Filed Sept. 15, 1928.

**DIP-SOL**

For Rubber Solvent.

Claims use since March, 1927.

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Ser. No. 272,454. ANDERSON-PRICHARD OIL CORPORATION, Oklahoma City, Okla. Filed Sept. 15, 1928.

**RUB-SOL**

For Rubber Solvent.

Claims use since March, 1927.

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Ser. No. 272,784. THEODORE J. VOGELGESANG, Salamanca, N. Y. Filed Sept. 21, 1928.



For Liniment to be Used Externally by Rubbing it on the Part Affected, or in the Form of a Poultice for Relief of Muscular Pains.

Claims use since on or about May 11, 1895.

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Ser. No. 272,798. SIDNEY R. PEIL, doing business as The Ivo-San Laboratory, Cleveland, Ohio. Filed Sept. 22, 1928.

**Wynix**

For Medicinal Vermifuge and Conditioning Preparations for Livestock.

Claims use since about May 1, 1928.

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Ser. No. 272,942. ISABEY-PARIS, INC., New York, N. Y. Filed Sept. 25, 1928.

**Mon Seul Ami**

For Perfumes, Toilet Waters, Eau de Cologne, Face Powder, Bath Powder, Lipsticks; Cleansing, Nourishing, Tissue, Bleaching, and Hand Creams; Cold Cream, Vanishing Cream; Eye, Hair, and Cleansing Lotions; Rouge, Skin Astringent, Talcum Powder.

Claims use since Sept. 15, 1928.

Ser. No. 272,998. LESTER H. MILES, Los Angeles, Calif. Filed Sept. 26, 1928.



No claim is made to the words "In Every Jar" and "Trade-mark," apart from the mark shown. The lining on the drawing is to designate shading only.

For Reducing, Bleaching, Cleaning, and Softening Creams.

Claims use since Sept. 10, 1928.

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Ser. No. 273,040. LUIS DE AYESTARÁN, New York, N. Y. Filed Sept. 27, 1928.



For Hair Tonics and After-Shaving Lotions to Retard the Growth of the Hair.

Claims use since 1916.

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Ser. No. 273,074. E. R. SQUIBB & SONS, New York, N. Y. Filed Sept. 27, 1928.

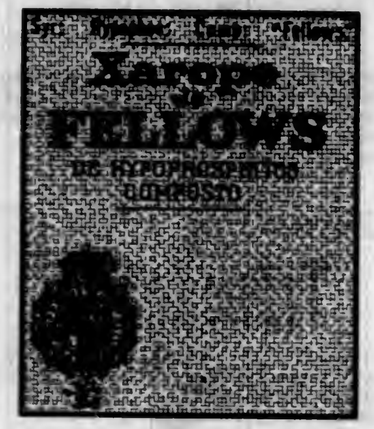
## Elixir Cupriferrum

No claim is made to the word "Elixir" apart from the mark shown in the drawing.

For Preparation Useful in the Treatment of Conditions Which Require Hemoglobin Production.

Claims use since Sept. 21, 1928.

Ser. No. 273,493. FELLOWS MEDICAL MANUFACTURING COMPANY, INC., New York, N. Y. Filed Oct. 8, 1928.




The drawing is lined to indicate the color yellow.

For Preparation of Hypophosphites.

Claims use since about 1894.

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Ser. No. 273,524. STANCO INCORPORATED, New York, N. Y. Filed Oct. 8, 1928.




No claim is made to the representation of a carton per se nor to the printed matter other than the words "Mistol" and "Stanco Incorporated." The lining shown in the drawing is for shading purposes only.

For Nose and Throat Spray.

Claims use since Aug. 30, 1928.

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Ser. No. 273,551. LENTHERIC, INCORPORATED, New York, N. Y., Filed Oct. 9, 1928.

## LENTHERIC

For Toilet Preparations—viz., Perfume, Toilet Water, Vegetal, Eau de Cologne, Liquid Brilliantine, Crystallized Brilliantine, Face Powder, Talcum Powder, Dusting Powder, Sachet, Bath Salts, Rouge, Lip Sticks, Powder Compacts, Rouge Compacts, Powder and Rouge Compacts, Powder Refills and Rouge Refills for Such Compacts.

Claims use since 1873.



Ser. No. 273,573. JACOB BIONDI, Baltimore, Md. Filed Oct. 10, 1928.

## HAIR TREV



For Preparation for Growing Hair.

Claims use since May 15, 1927.

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Ser. No. 273,584. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 10, 1928.

## THIONEX

For Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization.

Claims use since Sept. 25, 1926.

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Ser. No. 273,585. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 10, 1928.

## VULCONE

For Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization.

Claims use since Jan. 25, 1924.

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Ser. No. 273,586. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 10, 1928.

## VULCANEX

For Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization.

Claims use since Jan. 25, 1926.

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Ser. No. 273,587. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 10, 1928.

## NEOZONE

For Chemicals Used in the Manufacture of Rubber to Retard Deterioration Due to Oxidation.

Claims use since July 21, 1927.

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Ser. No. 273,588. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 10, 1928.

## VULCANOL

For Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization.

Claims use since Oct. 20, 1926.

Ser. No. 273,711. J. A. MILEM, Los Angeles, Calif. Filed Oct. 12, 1928.

## AMAZOL

For Antiseptic Dressing for Cuts, Burns, Sunburn, Bruises, Boils, Sores, and Ulcers.

Claims use since Dec. 15, 1927.

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Ser. No. 273,730. WALGREEN CO., doing business as Valentine Laboratories, Inc., Chicago, Ill. Filed Oct. 12, 1928.

## PHOSPHO COD

The word "Cod" forms a part of the registration sought only in association with the other features of the mark shown in the drawing.

For Strength-Building Reconstructive Medicinal Tonic to Build up Run-Down Conditions After Winter Attacks of Colds, Grippe, and Other Wasting Diseases, and Especially Adapted for Women and Children in Treating Debilitated and Anemic Conditions Caused by Defective Nutrition.

Claims use since about December, 1924.

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Ser. No. 273,737. ASSOCIATED LABORATORIES, INC., doing business as The Rheunesia Company, New York, N. Y. Filed Oct. 12, 1928.

## RHEUNESIA

For Medicinal Tablet for the Treatment of Rheumatism.

Claims use since Aug. 1, 1928.

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Ser. No. 273,740. CLOPIN COMPANY, INC., Poughkeepsie, N. Y. Filed Oct. 12, 1928.

## CLOPIN

For Medicinal Preparation of Cod-Liver Oil.

Claims use since Mar. 24, 1927.

Ser. No. 273,793. BALDAUF DRUG COMPANY, Milwaukee, Wis. Filed Oct. 15, 1928.

BALDAUF'S HEALING SALVE

NONE GENUINE WITHOUT THIS SIGNATURE

George L Baldauf

The wording "Healing Salve" and "None Genuine without This Signature" are disclaimed. The lining indicates shading only. The portion of trade-mark in script type represents the signature of the secretary and treasurer of applicant.

For Salve for Burns, Chapped Lips, Chapped Hands, Salt Rheum, Piles, Frozen Feet, Cold Sores, Prickley Heat, Sunburn, Chilblains, Old Sores, Insect Bites, Strains and Pains, Bed Sores, Inflammatory Eczema, Skin and Scalp Diseases, Bunions, Corns; Sore, Burning, or Smarting Feet.

Claims use since Sept. 4, 1898.

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Ser. No. 273,795. THE BISODOL COMPANY, New Haven, Conn. Filed Oct. 15, 1928.

BySoDo

For Medicinal Preparation Used as an Antacid Digestant.
Claims use since Sept. 25, 1928.

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Ser. No. 273,833. NATURE'S HERB COMPANY, San Francisco, Calif. Filed Oct. 15, 1928.

PSYLLSEED

For Laxative for Constipation.
Claims use since June 8, 1925.

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Ser. No. 273,840. PARKE, DAVIS & CO., Detroit, Mich. Filed Oct. 15, 1928.

ETHAMYL

For Hypnotics.
Claims use since Sept. 25, 1928.

Ser. No. 273,979. JAMES G. MCLAUGHLIN, Elmira, N. Y. Filed Oct. 18, 1928.



For Digestive Tablets.
Claims use since July 10, 1927.

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Ser. No. 274,152. FOREST HILLS COMPANY, doing business as Old Colony Brewing Co., Boston, Mass. Filed Oct. 23, 1928.

Strengthene

For Liquid Malt Extract for Medicinal Purposes.
Claims use since prior to September, 1903.

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Ser. No. 274,208. CARLOS M. DEL VALLE, M. D., doing business as Nidol Co., New York, N. Y. Filed Oct. 24, 1928.




For Solution of Iodine.
Claims use since Oct. 2, 1928.



Ser. No. 274,290. CARMELO SEMERARO, doing business as Carmelo Semeraro and Co., Brooklyn, N. Y. Filed Oct. 25, 1928.

Splendor

For Liquid Insecticide.
Claims use since Oct. 16, 1928.

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Ser. No. 274,328. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Oct. 26, 1928.

Gravitol

For Pharmaceutical Preparations—Namely, Preparations for Contracting the Uterus.
Claims use since about Aug. 15, 1928.

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Ser. No. 274,411. HAROLD D. STROUD, Detroit, Mich. Filed Oct. 27, 1928.

STROUDLITE

For Liquid Fuel for Portable and Pocket Cigar, Cigarette, and Pipe Lighters.
Claims use since Sept. 12, 1928.

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Ser. No. 274,469. MCCUE LABORATORIES, West Orange, N. J., and New York, N. Y. Filed Oct. 29, 1928.

MONOLAX

For Laxatives.
Claims use since Oct. 15, 1928.

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Ser. No. 274,636. WALTER JOSEPH DEE, doing business as Joseph Dee & Sons, Cheetham, England. Filed Nov. 1, 1928.

JODELITE

For Chemical Preparation for Preservation of Timber.
Claims use since Oct. 15, 1892.



## CLASS 7.

### Cordage.

Ser. No. 275,042. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

IGA

For Twine and Clotheslines.
Claims use since Sept. 1, 1927.

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## CLASS 9.

### Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 274,267. HITT FIREWORKS CO., Seattle, Wash. Filed Oct. 25, 1928.

NAVY BRAND

Applicant disclaims the descriptive term "Brand" shown as part of the mark in the drawings.

For Fireworks, and Particularly for Flashlight Firecrackers and Salutes.
Claims use since Aug. 15, 1928.

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Ser. No. 275,043. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

IGA

For Matches.
Claims use since Sept. 1, 1927.

Ser. No. 275,261. THE DIAMOND MATCH COMPANY, Chicago, Ill. Filed Nov. 14, 1928.

PROTECTO

For Matches.
Claims use since December, 1911.

## CLASS 10.
### Fertilizers.

Ser. No. 274,430. BAUGH AND SONS COMPANY, Philadelphia, Pa. Filed Oct. 29, 1928.

BAUGH'S
MONTEZUMA
TOBACCO
GUANO

No claim is made to the words "Baugh's Tobacco Guano" apart from the mark shown in the drawing.
For Fertilizers.
Claims use since about 1918.

## CLASS 12.
### Construction Materials.

Ser. No. 238,992. NORTH WESTERN EXPANDED METAL CO., Chicago, Ill. Filed Oct. 21, 1926.

STEEL STRENGTHENED PLASTERING

No claim is made to the words "Steel Strengthened Plastering" except as associated with the rest of the mark.
For Sheet-Metal Laths.
Claims use since Sept. 27, 1926.

Ser. No. 270,236. CHEMISCHE FABRIK GRUENAU LANDSHOFF & MEYER AKTIENGESELLSCHAFT, Gruenau, Germany. Filed July 27, 1928.

Tricosal

For Stones and Artificial Stones for Building Purposes, Cement, Lime, Plaster of Paris, and Means for Increasing the Strength, Density, and Hardness of Cement.
Claims use since Jan. 1, 1927.

Ser. No. 273,441. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Oct. 6, 1928.

BROWN COMPANY FOUNDED 1852 B Co

For Sheathing Paper for Building Purposes.
Claims use since on or about Sept. 25, 1928.

Ser. No. 273,538. CARLOS RUGGLES LUMBER CO., Springfield, Mass. Filed Oct. 9, 1928.

CIRCLE R BRAND

No claim is made to the word "Brand" appearing on the drawing except as to its common-law rights.
For Lumber and Lumber Products—Namely, Window Frames, Siding, Millwork, Shingles, Moldings, Doors, Flooring, Sheathing.
Claims use since Jan. 15, 1928.

Ser. No. 273,862. CHASE BRASS & COPPER CO., Waterbury, Conn. Filed Oct. 16, 1928.



For Sheet-Metal Elbows for Eaves-Trough Leaders.
Claims use since Oct. 1, 1928.



## CLASS 13.
### Hardware and Plumbing and Steam-Fitting Supplies.

Ser. No. 242,194. HAYS MANUFACTURING COMPANY, Erie, Pa. Filed Dec. 30, 1926.

Hays-Erie

No claim is made to the word "Erie" apart from the mark as shown. The surname "Hays" has been in actual use as a trade-mark by the applicant for 10 years next preceding Feb. 20, 1905, and such use has been exclusive.
For Flat Way Cocks, Stopcocks, Waste Cocks, Compression Bibbs or Faucets, Trap Screw Ferrules, Compression Stop and Waste Cocks, Gas Service Cocks, Extension Service Boxes, Steam Cocks, Gas-Main Cocks, Laundry-Tray Fixtures, Fittings, Unions, and Parts Thereof.
Claims use since 1904 and on the surname "Hays" since 1885.

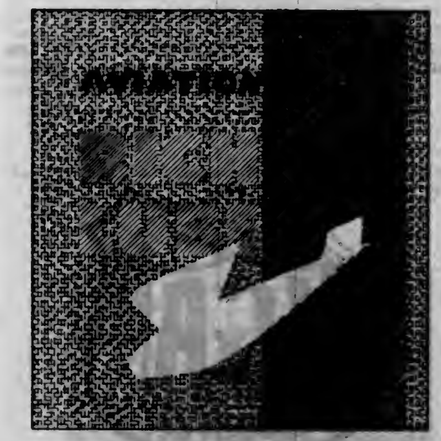
Ser. No. 272,417. LOGAN CO., Louisville, Ky. Filed Sept. 14, 1928.

Adjust-O-Grille

The word "Grille" is disclaimed apart from the mark as shown.
For Adjustable Screen-Door Grilles.
Claims use since Jan. 1, 1928.

## CLASS 15.
### Oils and Greases.

Ser. No. 263,517. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif. Filed Mar. 20, 1928.




The word "Aviation" is disclaimed apart from the mark as shown in the drawing. The drawing is lined to indicate a yellow background with a purple or blue stripe extending through the background. The letters are lined to indicate different shades of purple or blue. Owner of Certificate No. 203,664, Sept. 22, 1925, for the word "Richlube."
For Lubricating Oils.
Claims use since Mar. 1, 1928.

Ser. No. 271,997. THE PUREL OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

PUROL ZERO

For Hydrocarbon Motor Fuel Oils, Lubricating Oils and Greases, Motor and Ice-Machine Lubricating Oils.
Claims use since Dec. 8, 1923.

Ser. No. 273,157. PASOTEX PETROLEUM COMPANY, Wilmington, Del., and San Francisco, Calif. Filed Sept. 29, 1928.

PASOTEX

For Gasoline, Kerosene, Lubricating Oil, Lubricating Grease.
Claims use since Aug. 31, 1928.

Ser. No. 273,879. MOTOR FUEL PRODUCTS COMPANY, Laredo, Tex. Filed Oct. 16, 1928.

WHIRLWIND

For Gasoline.
Claims use since July 1, 1928.

Ser. No. 273,948. UNITED OIL COMPANY, Pittsburgh, Pa. Filed Oct. 17, 1928.

D-Z-L

For Lubricating Oils and Greases Made from Crude Petroleum or from Crude-Petroleum Products and Other Mineral, Vegetable, and Animal Products.
Claims use since Oct. 4, 1928.

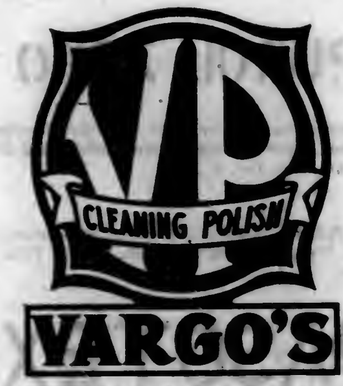
## CLASS 16.
### Paints and Painters' Materials.

Ser. No. 269,453. GENERAL COLOR PRODUCTS CO., Chicago, Ill. Filed July 12, 1928.

Crystolite PROCESS

Applicant disclaims exclusive right to the word "Process" apart from the mark as shown.
For Vitreous Enamels for Use on Glass, Pottery, Metals, Etc.
Claims use since about August, 1926.

Ser. No. 270,618. PETER VARGO, Cleveland, Ohio. Filed Aug. 4, 1928.




The words "Cleaning Polish" are hereby disclaimed apart from the mark shown in the drawing.

For Polish for Furniture, Automobiles, Duco Finishing of All Kinds, and Interior Woodwork.

Claims use since July 15, 1928.

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Ser. No. 274,790. NATIONAL ASBEST-O-PHALT CORPORATION, Chicago, Ill. Filed Nov. 3, 1928.




For Ready-Mixed Paint.

Claims use since Aug. 1, 1928.

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## CLASS 19.

### Vehicles, Not Including Engines.

Ser. No. 272,187. STUTZ MOTOR CAR COMPANY OF AMERICA, INC., Indianapolis, Ind. Filed Sept. 10, 1928.




For Automobiles.

Claims use since Dec. 15, 1927.

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Ser. No. 273,520. SPARTAN AIRCRAFT COMPANY, Tulsa, Okla. Filed Oct. 8, 1928.




For Airplanes and Airplane Structural Parts.

Claims use since Jan. 20, 1928.

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Ser. No. 273,521. SPARTAN AIRCRAFT COMPANY, Tulsa, Okla. Filed Oct. 8, 1928.



For Airplanes and Airplane Structural Parts.

Claims use since Jan. 20, 1928.

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Ser. No. 273,522. SPARTAN AIRCRAFT COMPANY, Tulsa, Okla. Filed Oct. 8, 1928.




For Airplanes and Airplane Structural Parts.

Claims use since Jan. 20, 1928.

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## CLASS 20.

### Linoleum and Oiled Cloth.

Ser. No. 275,047. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.




For Linoleum and Oiled Cloth.

Claims use since Sept. 1, 1927.



## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 239,197. THE PILOT ELECTRIC MANUFACTURING CO., INC., Brooklyn, N. Y. Filed Oct. 25, 1926.

CENTRALINE

For Fixed and Variable Condensers for Radio Reception Devices.

Claims use since May 18, 1926.

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Ser. No. 260,710. BATTERY PARTS COMPANY, INC., Wilkinsburg, Pa. Filed Jan. 27, 1928.




For Electric-Battery Cables and Wires, Electric-Battery Cell Connectors, Electric-Battery Ground Connectors, Electric-Battery Terminals and Posts, Electric-Battery Ground Terminals, Electric-Battery Pigtail Terminals, Electric-Battery Straps; Electric-Storage-Battery Plates, Grids, and Separators; Electric-Storage-Battery Boxes and Cases, Electric-Storage-Battery Handles, Electric-Battery Cell Testers, Electric-Storage-Battery Charging Clips, and Electric-Storage-Battery Holddowns.

Claims use since July 20, 1924.

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Ser. No. 263,941. THOMAS H. GRAY, doing business as The National Electro Hydrothermal Corp., Fort Worth, Tex. Filed Mar. 20, 1928.



The words "Instant Electro Water Heater" and the representation of the goods are claimed only as associated with the mark shown in the drawing. The drawing is lined for the colors green and yellow.

For Electric Immersion Water Heaters for General Use.

Claims use since Jan. 1, 1928.

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Ser. No. 266,551. MYERS TRI-STATE SUPPLY COMPANY, doing business as Tri-State Battery Company, Joplin, Mo. Filed May 17, 1928.




For Electric Storage Batteries.

Claims use since Mar. 8, 1928.

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Ser. No. 268,484. THE CLUB ALUMINUM UTENSIL COMPANY, doing business as The Club Aluminum Company, Chicago, Ill. Filed June 22, 1928.




The portrait is fanciful. Applicant disclaims the words "Health Products" except when used in connection with other features of the mark.

For Electric Heating Pads for General Use.

Claims use since Jan. 2, 1928.

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Ser. No. 271,128. KOLSTER RADIO CORPORATION, Newark, N. J. Filed Aug. 16, 1928.




No claim is made for the word "Radio" apart from the mark shown in the drawing.

For Radio Broadcast Receiving Apparatus, Loud Speakers, Power Amplifiers for Electromagnetic Sound Repro-

ducers, Battery Eliminators, Power-Supply Units for Electron-Tube Amplifiers, and Radio Receiving Sets Adapted for Combination with Phonographs.
Claims use since Apr. 10, 1928.

Ser. No. 272,983. DELCO-REMY CORPORATION, Anderson, Ind., and Dayton, Ohio. Filed Sept. 26, 1928.

Delco

For Storage Batteries.
Claims use since Aug. 21, 1928.

Ser. No. 273,446. THE CLUB ALUMINUM UTENSIL COMPANY, Chicago, Ill. Filed Oct. 6, 1928.

CLUB ELECTRO-HYGIENE

Applicant disclaims the words "Electro-Hygiene" except when used in association with the other features of the mark.
For Electric Vacuum Cleaner.
Claims use since July 1, 1928.

Ser. No. 273,496. INSULINE CORP. OF AMERICA, New York, N. Y. Filed Oct. 8, 1928.

I·C·A RESISTOVOLT AUTOMATIC VOLTAGE CONTROLLER

No claim is made to the words "Automatic Voltage Controller" nor to the representation of the goods apart from the mark shown.
For Automatic Voltage Controller.
Claims use since April, 1928.

## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 274,028. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed Oct. 19, 1928.

Ryder Cup

For Golf Clubs and Golf Balls.
Claims use since Oct. 1, 1928.

Ser. No. 274,713. FLEISCHAKER & BAUM, New York, N. Y. Filed Nov. 2, 1928.

Lovums

For Dolls.
Claims use since Sept. 25, 1928.

Ser. No. 274,750. ZULU TOY MANUFACTURING COMPANY, INC., Battle Creek, Mich. Filed Nov. 2, 1928.

MONKEY BUSINESS

For Tiddledywinks Game.
Claims use since about January, 1927.

## CLASS 24.

### Laundry Appliances and Machines.

Ser. No. 272,467. E. J. BROOKS AND COMPANY, New York, N. Y. Filed Sept. 15, 1928.

No claim is made to the exclusive rights in the representation of the laundry fastener per se.
For Metal Laundry Fasteners.
Claims use since June 9, 1928.

## CLASS 25.

### Locks and Safes.

Ser. No. 274,688. THE YALE & TOWNE MFG. CO., Stamford, Conn. Filed Nov. 1, 1928.

YALE JUNIOR

For Locks and Parts Thereof, Keys, and Key Blanks.
Claims use since Oct. 1, 1928.

## CLASS 27.

### Horological Instruments.

Ser. No. 273,604. MANUFACTURE DES MONTRES NITON S. A., Geneva, Switzerland. Filed Oct. 10, 1928.

"NITON"

For Watches and Parts Thereof.
Claims use since Jan. 10, 1920.



Ser. No. 273,677. WASHINGTON JEWELRY COMPANY, Boston, Mass. Filed Oct. 11, 1928.

MAN O' SPORTS

For Watches.
Claims use since Oct. 11, 1927.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 267,993. PHI ALPHA, Washington, D. C. Filed June 18, 1928.

ΦA

For Fraternity Badges, Lapel Buttons; Scarf, Lapel, and Breast Pins; Cuff Links, Tie Clasps, Charms, Finger Rings, Belt Buckles, and Ornamental Shields, All of Precious Metals.
Claims use since July 1, 1926.

## CLASS 30.

### Crockery, Earthenware, and Porcelain.

Ser. No. 274,052. HERBERT & NEUWIRTH CO. INC., New New York, N. Y. Filed Oct. 20, 1928.

CASTLE

For Chinaware and Art Pottery.
Claims use since Dec. 1, 1927.

Ser. No. 275,050. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

IGA

For Chinaware and Crockery.
Claims use since Sept. 1, 1927.

## CLASS 31.

### Filters and Refrigerators.

Ser. No. 273,179. BOKAY LABORATORIES, INCORPORATED, Tulsa, Okla. Filed Oct. 1, 1928.

For Filters and Refills for Filters.
Claims use since Sept. 1, 1928.

## CLASS 33.

### Glassware.

Ser. No. 274,393. KIMBLE GLASS COMPANY, Vineland, N. J. Filed Oct. 27, 1928.

Klic-Off

For Glass Ampoules.
Claims use since Aug. 31, 1928.

Ser. No. 275,051. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

IGA

For Drinking Glasses.
Claims use since Sept. 1, 1927.

## CLASS 34.

### Heating, Lighting, and Ventilating Apparatus, Not Including Electrical Apparatus.

Ser. No. 273,653. HARTMAN FURNITURE AND CARPET COMPANY, Chicago, Ill. Filed Oct. 11, 1928.

Heritage

For Kitchen Gas Ranges.
Claims use since Aug. 15, 1928.

Ser. No. 274,426. HOME INCINERATOR COMPANY, Milwaukee, Wis. Filed Oct. 27, 1928.




The words "Burn It with Gas" and "The Decent Way" are disclaimed apart from the mark as shown.
For Domestic Garbage and Refuse Incinerators.
Claims use since July 21, 1928.

Ser. No. 274,454. IONA VENTILATOR COMPANY, Philadelphia, Pa. Filed Oct. 29, 1928.

IVCO

For Intakes for Ventilating Systems.
Claims use since Oct. 16, 1928.

## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 242,258. VISUOLA CORPORATION, New York, N. Y. Filed Dec. 31, 1926.

VISUOLA

For Devices for Teaching Pupils to Play Musical Instruments by Means of Selectively-Operable Visual Signals Associated with the Keys or Equivalent Elements of the Pupils' Instrument to Indicate to the Pupil the Sequence in Which the Keys or Equivalent Elements of the Pupils' Instrument are to be Played.
Claims use since on or about Nov. 23, 1926.

Ser. No. 264,330. TOM BROWN MUSIC COMPANY, Chicago, Ill. Filed Apr. 4, 1928.

ORIOLE

For Saxophones, Clarinets, Oboes, Trombones, Trumpets, Cornets, Flutes, Bassoons, Alto Horns, Bass Horns, English Horns, French Horns, Reeds, Mouthpieces and Mutes for Said Instruments, and Keys, Bridges, Strings, and Tailpieces for Bowed Stringed Instruments.
Claims use since on or about Jan. 1, 1927.

## CLASS 37.

### Paper and Stationery.

Ser. No. 274,098. CENTRAL MICHIGAN PAPER COMPANY, Grand Rapids, Mich. Filed Oct. 22, 1928.



"WILL HOLD" GUMMED TAPE

The words "'Will Hold' Gummed Tape" form a part of the registration sought only in association with the other features of the mark shown in the drawing.
For Paper and Cloth Gummed Tapes.
Claims use since Sept. 1, 1927.

Ser. No. 274,405. SKINNER & KENNEDY STATIONERY COMPANY, St. Louis, Mo. Filed Oct. 27, 1928.

ARCOLA

For Lead Pencils.
Claims use since Dec. 23, 1922.

Ser. No. 274,638. EATON, CRANE & PIKE COMPANY, Pittsfield, Mass. Filed Nov. 1, 1928.

MEMRI-MINDER

For Memorandum Pads and Writing Paper.
Claims use since Oct. 25, 1928.

Ser. No. 275,020. THE CONKLIN PEN COMPANY, Toledo, Ohio. Filed Nov. 9, 1928.

ALL AMERICAN

For Fountain Pens and Pencils.
Claims use since Oct. 24, 1928.

Ser. No. 275,039. HOLLINGSWORTH & VOSE COMPANY, Boston, Mass. Filed Nov. 9, 1928.

Pleatex

For Paper in Sheets or Rolls Suitable for Designing, Drafting, Drawing, Folders, Envelopes, Covers, Mounts, Wallets, Tickets, Tags, Stencils, Pleating and Other Patterns, Wrappers, Lamp Shades, Bottle Caps, and the Like.
Claims use since June 8, 1928.



## CLASS 38.

### Prints and Publications.

Ser. No. 270,414. THE CHICAGO ASSOCIATION OF COMMERCE, Chicago, Ill. Filed Aug. 1, 1928.

CHICAGO COMMERCE
*The Business Magazine of the Great Central Market*

For Weekly Publication.
Claims use since about November, 1907.

Ser. No. 273,491. MARK T. DOWLING, New York, N. Y. Filed Oct. 8, 1928.

RAGLAN

For Nom de Plume for Newspaper and Magazine Articles.
Claims use since Jan. 1, 1928.

Ser. No. 274,010. MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed Oct. 19, 1928.

LONELY HEARTS
MAGAZINE

For Monthly Magazine.
Claims use since Oct. 11, 1928.

Ser. No. 274,011. MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed Oct. 19, 1928.

BOYS FLYING
ADVENTURES

For Monthly Magazine.
Claims use since Oct. 11, 1928.

Ser. No. 274,565. MACFADDEN PUBLICATIONS, INC., New York, N. Y. Filed Oct. 30, 1928.

THRILLING JUNGLE STORIES

For Monthly Magazines.
Claims use since Oct. 23, 1928.

## CLASS 39.

### Clothing.

Ser. No. 195,466. THE THOMPSON-BARLOW CO., INC., New York, N. Y., assignor to Madame X Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 12, 1924.

*Madame X*

For Corsets and Brassières.
Claims use since Mar. 15, 1924.

Ser. No. 200,410. THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor to Madame X Company, Inc., New York, N. Y., a Corporation of New York. Filed July 23, 1924.

Mademoiselle X

For Girdles and Corsets.
Claims use since June 30, 1924.

Ser. No. 200,411. THOMPSON-BARLOW COMPANY, INC., New York, N. Y., assignor to Madame X Company, Inc., New York, N. Y., a Corporation of New York. Filed July 23, 1924.

M'lle X

For Girdles and Corsets.
Claims use since June 30, 1924.

Ser. No. 204,848. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y. Filed Nov. 4, 1924.

Madame X

For Hosiery, Girdle Vests, and Garters.
Claims use since Nov. 6, 1922.

Ser. No. 205,667. THE THOMPSON-BARLOW COMPANY, INC., New York, N. Y. Filed Nov. 21, 1924.

Lady X

For Corsets, Brassières, Girdles, and Girdle Vests.
Claims use since Nov. 1, 1924.

Ser. No. 267,205. OCTONEK KNITTING CO. INC., Seattle, Wash. Filed May 29, 1928.

THE HUSKY

The drawing is shown as lined to better illustrate its appearance, as it is normally woven of horisontal threads.
For Knitted Goods—Namely, Men's, Women's and Children's Sweaters, Slip-Overs, Jackets, Vests, Topcoats, Travelling Coats, Jerseys, Shakers, Boot Socks, Trunks, Tights, Caps, Toques, Tams, Helmets, Wristers, Mittens, and Gloves, Women's and Children's Coats, Suits, and Dresses.
Claims use since May 17, 1927.

Ser. No. 268,059. THE ROSENBAUM COMPANY, Pittsburgh, Pa. Filed June 14, 1928.

TRIPODAL

Applicant owns registration No. 179,247.
For Men's, Women's, and Children's Shoes Made of Leather, Rubber, Cloth, or Any Combination Thereof.
Claims use since Feb. 2, 1923.

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Ser. No. 268,060. THE ROSENBAUM COMPANY, Pittsburgh, Pa. Filed June 14, 1928.




For Men's, Women's and Children's Shoes Made of Leather, Rubber, Cloth, or Any Combination Thereof.
Claims use since Feb. 2, 1928.

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Ser. No. 269,478. MCLOUGHLIN TEXTILE CORPORATION, Utica, N. Y. Filed July 12, 1928.

Rite-Ray

For Men's Rayon Union Suits, Men's, Women's, and Children's Rayon Underwear, Petticoats and Slips, Nightgowns and Pajamas; Men's Rayon Athletic Shirts, and Men's Rayon Track Pants or Runners.
Claims use since June 7, 1928.

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Ser. No. 269,794. S. R. MCINTOSH, St. Petersburg, Fla. Filed July 18, 1928.

Sara Lou

For Clothing Specifically Described as Beach Coats, Dresses, Overcoats, Shirts, and Shirt Waists for the Use of Women and Children.
Claims use since June 15, 1927.

Ser. No. 269,897. HENRY HIRSCHBERG, INC., New York, N. Y. Filed July 20, 1928.

1/2

For Women's and Children's Undergarments of Natural and Artificial Silk, Wool, Cotton, and Linen Knitted and Textile Fabrics—Namely, Bloomers, Drawers, Step-Ins, Chemises, Shirts, Vests, Nightgowns, Pajamas, Petticoats, and Costume Slips.
Claims use since July 18, 1928.

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Ser. No. 270,105. THE GOR-JUS HOSIERY MILLS, INC., now, by change of name, Gor-Jus Hosiery Co., Inc., Baltimore, Md. Filed July 25, 1928.

GOR-JUS
Sheer Goodness!

The words "Sheer Goodness" are disclaimed apart from the mark shown in the drawing.
For Hosiery.
Claims use since May 15, 1928.

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Ser. No. 270,254. MILLINERY STORES, INC., Chicago, Ill. Filed July 27, 1928.

Chapeau Sibyl

Applicant disclaims the right to the exclusive use of the word "Chapeau" except in the association shown.
For Women's Hats.
Claims use since Feb. 25, 1928.

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Ser. No. 270,884. THE H. W. GOSSARD COMPANY, now, by change of name, Associated Apparel Industries, Inc., Chicago, Ill. Filed Aug. 11, 1928.

MONO MODART

For Corsets, Bassières, Combined Corsets and Brassières, and Garter Belts.
Claims use since July 31, 1928.



Ser. No. 272,763. THE J. LESCHIN CO., New York, N. Y. Filed Sept. 21, 1928.




For Women's, Misses', and Children's Hats.
Claims use since May 1, 1924.

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Ser. No. 272,960. NATHAN SIEGEL, doing business as Williamsburg Knitting Mills, Brooklyn, N. Y. Filed Sept. 25, 1928.

GLOMOR

For Undergarments—Namely, Shirts, Drawers, and Union Suits of Knitted Materials and Textile Fabrics for Men, Women, and Children; Vests, Bloomers, and Nightgowns of Knitted Materials and Textile Fabrics for Women and Children, Princess Slips of Knitted Materials and Textile Fabrics for Women; Union Suits and Pyjamas of Knitted Materials and Textile Fabrics for Men, Women, and Children; and for Gloves Made of Leather, Suede, and Textile Fabrics; Brassières, Chemises, Kimonos, Step-Ins, (a Style of Underwear), Shorts (Drawers), Undershirts, Shirt Waists, Outer Coats, Aprons, Dresses, Bath Robes, Bandeaux, Shawls, Bathing Suits, Sweaters, Hats, Caps, Berets, Hosiery, Scarfs, and Mufflers for Women, Misses, and Girls; and Dress, Work, and Negligee Shirts, Trunks, Nightshirts, Sweaters, Socks, Neckties, Gloves Made of Leather, Suede, and Textile Fabrics, and Collars for Men and Boys.

Claims use since May 8, 1925, as to undergarments—namely, shirts, drawers, and union suits of knitted materials and textile fabrics for men, women, and children; vests, bloomers, and nightgowns of knitted materials and textile fabrics for women and children, princess slips of knitted materials and textile fabrics for women; union suits and pyjamas of knitted materials and textile fabrics for men, women, and children; and since August 28, 1928, as to gloves made of leather, suede, and textile fabrics; brassières, chemises, kimonos, step-ins (a style of underwear), shorts (drawers), undershirts, shirt waists, outer coats, aprons, dresses, bath robes, bandeaux, shawls, bathing suits, sweaters, hats, caps, berets, hosiery, scarfs, and mufflers for women, misses, and girls; and dress, work, and negligee shirts, trunks, nightshirts, sweaters, socks, neckties, gloves made of leather, suede, and textile fabrics, and collars for men and boys.

Ser. No. 273,058. MAZIE MCFETRIDGE, doing business as Lesmay, Burlingame, Calif. Filed Sept. 27, 1928.

Lesmay

For Women's Apparel Consisting of Dresses, Coats, Knitted and Netted Underwear, Hosiery, Hats, and Skirts for Outer Wear.
Claims use since May 31, 1928.

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Ser. No. 273,146. VINCENT HORWITZ COMPANY INC., New York, N. Y. Filed Sept. 29, 1928.

HORCO

For Men's, Women's, and Children's Slippers Made of Either Felt and Leather, Fabric and Leather, or Entirely of Leather with a Fabric Lining.
Claims use since July, 1924.

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Ser. No. 273,197. MERCER HAT CO., New York, N. Y. Filed Oct. 1, 1928.




For Ladies' and Misses' Hats.
Claims use since about Oct. 1, 1927.

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Ser. No. 273,646. BYRNE & HAMMER DRY GOODS CO., Omaha, Nebr. Filed Oct. 11, 1928.

GOLDEN ARROW

For Men's and Boys' Overcoats and Men's and Boys' Sheepskin Coats and Other Leather Coats.
Claims use since July 1, 1925.

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Ser. No. 273,928. MORRIS & COMPANY, INCORPORATED, Baltimore, Md. Filed Oct. 17, 1928.

apronola

For Aprons and Smocks.
Claims use since Aug. 8, 1928.

Ser. No. 274,067. ABRAHAM PRATT, doing business as Public Dress Company, New York, N. Y. Filed Oct. 20, 1928.

PUBLIC'S

For Dresses, Frocks, Skirts, Coats, and Waists for the Use of Women, Misses, and Children.
Claims use since May, 1928.

Ser. No. 274,348. LEBANON SHIRT COMPANY, Lebanon, Pa., and New York, N. Y. Filed Oct. 26, 1928.

Pen Ley

For Men's Dress, Negligee, and Work Shirts; Men's, Women's, and Children's Pajamas; and Men's, Women's, and Children's Underwear Made of Knitted and Textile Fabric.
Claims use since Apr. 12, 1928.

Ser. No. 274,390. HALL, HARTWELL & CO. INC., Troy, N. Y. Filed Oct. 27, 1928.

Show Case

For Collars and Dress, Negligee, and Work Shirts.
Claims use since Oct. 1, 1928.

Ser. No. 274,399. NORMA HOSIERY SHOPPE, INC., Washington, D. C. Filed Oct. 27, 1928.

NorBud HOSIERY

No claim is made to the word "Hosiery" apart from the mark shown.
For Hosiery.
Claims use since Aug. 31, 1928.

Ser. No. 274,415. WAYNESBORO KNITTING COMPANY, Waynesboro, Pa. Filed Oct. 27, 1928.

Mirabelle

For Underwear of Silk, Rayon, Cotton, and Cotton and Rayon for Men, Women, and Children.
Claims use since Oct. 3, 1928.

## CLASS 42.

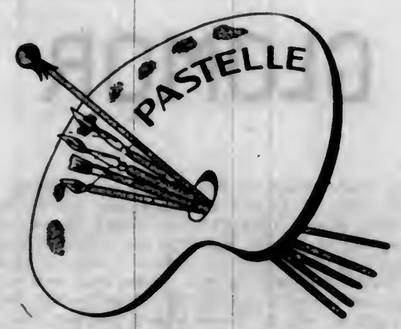
### Knitted, Netted, and Textile Fabrics.

Ser. No. 241,274. F. A. FOSTER & CO., INC., New York, N. Y. Filed Dec. 10, 1926.

"FENWAY"

For Cretonne Piece Goods.
Claims use since July 2, 1925.

Ser. No. 265,383. R. JACOBS & COMPANY, New York, N. Y. Filed Apr. 25, 1928.




No claim is made to the exclusive use of the word "Pastelle" apart from the mark shown in the drawing.
For Tablecloths Made of Textile Fabrics.
Claims use since April, 1927.

Ser. No. 266,839. ANDREW SWANFELDT, doing business as Nosun Awning Company, Los Angeles, Calif. Filed May 22, 1928.

NOSUN

For Cotton Fabrics for Awnings, Storm Curtains, Door Curtains, Shoe Holders, Bags, and Aprons, for Sale by the Yard or in Cut Lengths.
Claims use since Sept. 1, 1927.



Ser. No. 272,485. BENJAMIN GIVARZ, doing business as The Santa Pack Co., Wynnefield, Philadelphia, Pa. Filed Sept. 15, 1928.

SANTA PACK

Applicant disclaims the word "Pack" alone and apart from the mark as shown.
For Textile Towels.
Claims use since Sept. 6, 1928.

Ser. No. 272,961. NATHAN SIEGEL, doing business as Williamsburg Knitting Mills, Brooklyn, N. Y. Filed Sept. 25, 1928.

GLOMOR

For Knitted, Netted, Woven, and Textile Fabrics in the Piece of Silk, Rayon, Cotton, Wool, or and Combinations Thereof.
Claims use since Aug. 28, 1928.

Ser. No. 273,600. HOLSTEN, YOUNG & CO., New York, N. Y. Filed Oct. 10, 1928.

RUMBLESEAT

For Woolen Piece Goods.
Claims use since about August, 1928.

Ser. No. 274,260. COHN HALL MARX CO., New York, N. Y. Filed Oct. 25, 1928.

SURRAY

For Cotton and Cotton and Rayon Fabrics.
Claims use since Aug. 16, 1928.

Ser. No. 274,409. S. STEIN & CO., New York, N. Y. Filed Oct. 27, 1928.

SuperAnglora

For Woolen Goods.
Claims use since July 1, 1926.

Ser. No. 274,466. H. R. MALLINSON & CO. INC., New York, N. Y. Filed Oct. 29, 1928.

Ponce de Leon and Jamestown

Applicant disclaims the right to register as a technical trade-mark the geographical term "Jamestown" per se.
For Silk Piece Goods.
Claims use since September, 1927.

Ser. No. 274,502. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed Oct. 30, 1928.

Cashmirola

For Woolen Piece Goods.
Claims use since Sept. 10, 1928.

Ser. No. 274,913. CHARLES H. FELDSTEIN COMPANY, INCORPORATED, Philadelphia, Pa. Filed Nov. 7, 1928.

FELWEVE

For Haircloth as Piece Goods in Roll Form.
Claims use since May 11, 1928.

Ser. No. 275,038. THE HIND & HARRISON PLUSH CO., New York, N. Y. Filed Nov. 9, 1928.

LAMSHIRE

For Pile Fabrics in the Piece.
Claims use since Sept. 27, 1928.

Ser. No. 275,061. MANVILLE JENCKES COMPANY, Pawtucket, R. I. Filed Nov. 9, 1928.

Tamarack

For Bedspreads.
Claims use since May 15, 1926.

Ser. No. 275,119. WM. T. KNOTT COMPANY INC., New York, N. Y. Filed Nov. 10, 1928.

REPOSE

For Sheets, Pillowcases, and Sheetings.
Claims use since July 1, 1928.

Ser. No. 275,203. BELLMAN BROOK BLEACHERY CO., Fairview, N. J. Filed Nov. 13, 1928.



For Cotton and Rayon Textile Fabrics.
Claims use since Oct. 10, 1928.

Ser. No. 275,205. BURCOT PRODUCTS COMPANY, Brunswick, Ga. Filed Nov. 13, 1928.

BURCOT

For Cotton Fabric Used as a Substitute for Burlap.
Claims use since Oct. 24, 1928.

Ser. No. 275,279. HESS, GOLDSMITH & CO., INC., New York, N. Y. Filed Nov. 14, 1928.

*Sweetmeat Prints*

No rights are asserted to the exclusive use of the word "Prints" apart from the mark as shown in the drawing.
For Woven, Knitted, or Netted Piece Goods Composed of Silk, Rayon, Cotton, Wool, or Combinations Thereof.
Claims use since Nov. 7, 1928.

## CLASS 43.

### Thread and Yarn.

Ser. No. 275,054. INDEPENDENT GROCERS' ALLIANCE DISTRIBUTING COMPANY, Chicago, Ill. Filed Nov. 9, 1928.




For Thread.
Claims use since Sept. 1, 1927.

## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 273,815. WILLIAM J. GUINDON, doing business as Consumers Chemical Company, Minneapolis, Minn. Filed Oct. 15, 1928.

ULTREX

For Rectal and Urethral Hard-Rubber Syringes and Rubber Cots.
Claims use since Sept. 27, 1928.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 247,609. FAIR PLAY CARAMELS, INC., Johnson City, N. Y. Filed Apr. 18, 1927.




No claim is made to the word "Honeys" apart from the mark shown. The drawing is lined to indicate the colors gold and purple.
For Candy.
Claims use since Apr. 4, 1926.

Ser. No. 255,226. JANET M. WALKER, doing business as Tropic Products Co., Luzon, P. I. Filed Sept. 27, 1927.



No claim is made to the word "Parfait" nor to the word "Mandalay" apart from the mark as shown in the drawing.
For Solid and Semisolid Food Products Made from the Meat of Cocoanuts for Use as a Confection, Dessert, and Food Ingredients.
Claims use since Aug. 4, 1927.

Ser. No. 257,407. GEORGE MOORE ICE CREAM CO., Atlanta, Ga. Filed Nov. 11, 1927.

FRENCH DIP

For Ice Cream.
Claims use since May, 1927.

Ser. No. 262,696. L. J. CHRISTOPHER COMPANY, Los Angeles, Calif. Filed Mar. 7, 1928. Under 10-year proviso.

Christopher's

For Ice Cream.
Claims use since Jan. 1, 1908.



Ser. No. 262,697. L. J. CHRISTOPHER COMPANY, Los Angeles, Calif. Filed Mar. 7, 1928. Under 10-year proviso.

Christopher's

For Chocolates.
Claims use since Jan. 1, 1908.

Ser. No. 263,965. CECELIA M. MITCHELL, doing business as Golden Glo Products Co., Fort Worth, Tex. Filed Mar. 29, 1928.

GOLDEN GLO

The drawing is lined for orange.
For Mayonnaise Salad Dressing, Thousand Island Salad Dressing, and Sea Food Aid Consisting of a Semiacid Sauce.
Claims use since Feb. 15, 1928.

Ser. No. 264,858. JAMES A. AICARDI & SONS INC., Boston, Mass. Filed Apr. 16, 1928.

KOTTAGE GARDEN

For Food Preparations—Namely, Pickle Preparations Designated Sweet Chow, Sweet Relish, and Pimiento Relish.
Claims use since June, 1923.

Ser. No. 265,167. WILLIAM D. ROSS, doing business as Have A Heart Candy Co., Portland, Oreg. Filed Apr. 20, 1928.




The shading on the drawing around the outer edge represents a red border, and the shading on the inside of the outer border represents a green inner border and background of landscape.
For Candy Bars.
Claims use since Mar. 20, 1928.

Ser. No. 265,713. ZIFF BROTHERS, INC., Chicago, Ill. Filed Apr. 30, 1928.




No claim is made to the exclusive use of the words "The Best" apart from the mark shown.
For Malt Extract.
Claims use since on or about Nov. 15, 1927.

Ser. No. 267,320. HUGH A. SANDERS, doing business as Piping Pan Company, San Diego, Calif. Filed June 1, 1928.




For Self-Rising Multiflour Compound, Which Flour is Used and is Useful for the Manufacture of All Products and Food Which Can be Manufactured from a Prepared Flour, Such as Pancakes, Waffles, Fritters, Biscuits, Muffins, Doughnuts, Shortcakes, Fruit Cakes, Pies, Pastries, Pop-Overs, Cookies, Crackers, Baked Food, and Other Similar Products.
Claims use since Oct. 1, 1927.

Ser. No. 268,296. J. A. MEDINA COMPANY, New York, N. Y. Filed June 19, 1928.

J. A. M.

For Green Coffee.
Claims use since Jan. 1, 1924.

Ser. No. 268,608. HILLCREST RABBITRY INCORPORATED, Pasadena, Calif. Filed June 25, 1928.




No claim is made to the words "Certified Rabbit" apart from the mark shown in the drawing.
For Dressed Rabbits, Canned Rabbits, and Live Rabbits for Food Purposes.
Claims use since Feb. 1, 1928.

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Ser. No. 269,239. GEO. A. HORMEL & COMPANY, Austin, Minn. Filed July 7, 1928.

*Flavor Sealed*

Applicant is the owner of registration No. 239,415, registered Mar. 6, 1928.
For Loin Pork and Luncheon Meat in Cans and Other Containers.
Claims use since June 14, 1928, applied to loin pork, and since June 22, 1928, as applied to luncheon meat.

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Ser. No. 269,524. HONOLULU FRUIT CO., LTD., Honolulu, Territory of Hawaii. Filed July 13, 1928.

Queen Lily

For Canned Pineapple.
Claims use since Apr. 20, 1928.

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Ser. No. 269,602. PHILLIPS-LEWIS CO., INC., Richmond, Va. Filed July 14, 1928.

**HOME SPUN**

For Canned Vegetables, Canned Fruits, Canned Berries, Table Syrup, Coffee, Canned Herring Roe, Alimentary Paste, Canned Shrimp, Canned Crab Meat, Peanut Butter, Cocoa, Cocoanut, Food-Flavoring Extracts, Canned Salmon, Mayonnaise, Mincemeat, Fruit Preserves, Dried Fruits, Horse-Radish, Canned Pork and Beans, Salad Oil, Canned Apple Sauce, Pickled Onions, Canned Sauerkraut, Canned Mixed Vegetables for Soup, Canned Fruits for Salad, Cranberry Jelly, and Canned Succotash.
Claims use since Oct. 16, 1912.

Ser. No. 269,810. TEA GARDEN PRODUCTS CO., San Francisco, Calif. Filed July 18, 1928.




For Table Syrup—Namely, Sugar and Corn Syrup.
Claims use since Mar. 1, 1894.

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Ser. No. 270,152. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.




The geographical words "Mayfield, California, U. S. A." are disclaimed apart from the mark shown.
For Canned Fruits and Canned Vegetables.
Claims use since July 17, 1928.

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Ser. No. 270,153. SUTTER PACKING COMPANY, Mayfield, Calif. Filed July 25, 1928.

FROM THE PEACH
BOWL OF THE WORLD

For Canned Fruits.
Claims use since July 17, 1928.



Ser. No. 271,538. DIAMOND CRYSTAL SUGAR CO., INC., New York, N. Y. Filed Aug. 25, 1928.

*Super Crystals*

No claim is made to the word "Crystals" apart from the mark as shown in the drawing.
For Sugar.
Claims use since June 8, 1928.

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Ser. No. 271,539. DIAMOND CRYSTAL SUGAR CO., INC., New York, N. Y. Filed Aug. 25, 1928.

*Sunspark*

For Sugar.
Claims use since June 8, 1928.

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Ser. No. 271,579. UNION PRODUCE CO., Guadalupe, Calif. Filed Aug. 25, 1928.

**U-Pco**

For Fresh Vegetables.
Claims use since Apr. 15, 1928.

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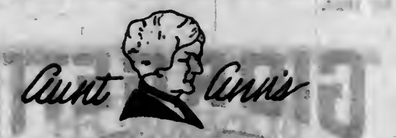
Ser. No. 271,975. NIAGARA FALLS MILLING COMPANY, Niagara Falls and Buffalo, N. Y. Filed Sept. 6, 1928.




The words "Flour," "Office," and "Buffalo, N. Y.," are disclaimed apart from the mark as shown on the drawing.
For Wheat Flour.
Claims use since Nov. 21, 1885.



Ser. No. 272,200. DAVIES-STRAUSS-STAUFFER CO., Easton, Pa. Filed Sept. 11, 1928.




The face shown in drawing is fanciful and not the portrait of any person.
For Fruit Preserves, Fruit Jelly, Apple Butter, Mincemeat, Canned Beets, Pickles, and Tomato Catsup.
Claims use since June 25, 1928.

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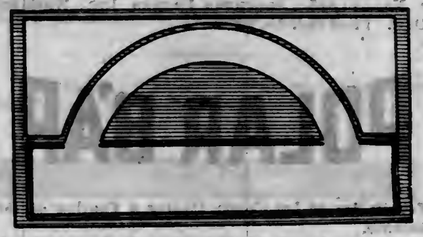
Ser. No. 272,620. OTTO MEYER, Verdemont, Calif. Filed Sept. 18, 1928.

**OUR GIRL**

For Fresh Grapes.
Claims use since Sept. 5, 1928.

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Ser. No. 272,814. W. E. JACOBS CANDY CO., Chicago, Ill. Filed Sept. 22, 1928.



The drawing is lined for dark blue.
For Candy.
Claims use since June 30, 1928.

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Ser. No. 273,051. OSCAR L. GYLLENHAMMAR, Gottenborg, Sweden. Filed Sept. 27, 1928.

GOM

For Oatmeal.
Claims use since 1926.

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Ser. No. 273,143. THE HILLS BROTHERS COMPANY, New York, N. Y. Filed Sept. 29, 1928.

ROMANY

For Canned Pimientos.
Claims use since Sept. 15, 1928.

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Ser. No. 273,226. COHN & BOCK COMPANY, Princess Anne, Md. Filed Oct. 2, 1928. Under 10-year proviso.

**JOHNNY CAKE**

For White Corn Meal.
Claims use since 1893.

Ser. No. 273,593. CARLO GIORGETTI, doing business as Giorgetti Ravioli Factory, Oakland, Calif. Filed Oct. 10, 1928.

GIORGETTI



The surname "Giorgetti" is disclaimed apart from the mark as shown in the drawing.

For Mushroom Gravy, Canned Ravioli, Chile con Carne.

Claims use since Sept. 26, 1928.

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Ser. No. 273,845. SOUTHERN DAIRIES, INC., Washington, D. C. Filed Oct. 15, 1928.

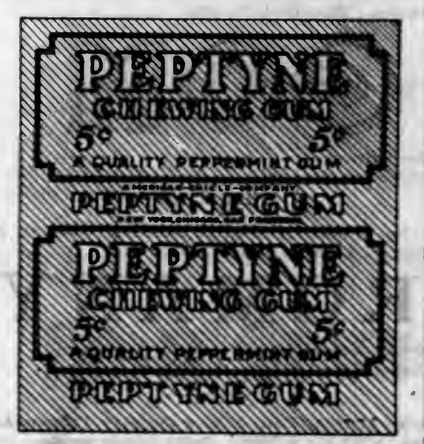
POLAR B'AR

For Bodies of Ice Cream Having a Coating of Edible Substance.

Claims use since Sept. 15, 1928.

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Ser. No. 273,856. AMERICAN CHICLE COMPANY, Long Island City, N. Y. Filed Oct. 16, 1928.




The outline of the wrapper of the goods and all reading matter on drawing except the word "Peptyne" and the corporate name "American Chicle Company" are disclaimed apart from the other features shown. The drawing bears the conventional lining representing the color green.

For Chewing Gum.

Claims use since Sept. 28, 1928.

Ser. No. 273,867. GENTILE BROS. COMPANY, Cincinnati, Ohio. Filed Oct. 16, 1928.




For Fresh Citrus Fruits, Fresh Deciduous Fruits, and Fresh Vegetables.

Claims use since July 1, 1928.

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Ser. No. 273,970. THE JENNY WREN CO., Lawrence, Kans. Filed Oct. 18, 1928.




The drawing is lined for blue. No claim is made to the words "Corn Meal" apart from the other features of the mark.

For Corn Meal for Cooking Purposes.

Claims use since Sept. 1, 1928.



Ser. No. 274,024. THE J. R. WATKINS COMPANY, Winona, Minn. Filed Oct. 19, 1928.




The mark consists of the portrait and signature of J. R. Watkins, deceased, the founder of the J. R. Watkins Company. No claim is made to the words "Trade Mark" apart from the mark as shown.

For Cocoa, Shredded Cocoanut, Almond Extract for Food Purposes, Lemon Extract for Food Purposes, Orange Extract for Food Purposes, Vanilla (Straight) for Food Purposes, Vanilla Extract for Food Purposes, Vanilla Flavor (Imitation) for Food Purposes, Vanillin and Coumarin Flavor for Food Purposes, Grape Flavor for Food Purposes, Raspberry Flavor for Food Purposes, Banana Flavor for Food Purposes, Cinnamon Flavor for Food Purposes, Maple Flavor for Food Purposes, Mixed Fruit Flavor for Food Purposes, Pineapple Flavor for Food Purposes, Strawberry Flavor for Food Purposes, Chocolate Pie Filler, Cocoanut Pie Filler, Lemon Pie Filler, Fruit Pectin, Celery Salt, Onion Seasoning, Paprika, Chili Powder, Allspice, Cinnamon, Cloves, Ginger, Mixed Spices, Prepared Mustard, Nutmeg, Pepper, Red Pepper, Sage, and Mints.

Claims use since Jan. 11, 1894.

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Ser. No. 274,032. H. C. BOHACK CO., INC., Brooklyn, N. Y. Filed Oct. 20, 1928.




The color lining indicated on the drawing is for shading. No claim is made to the word "Bread" apart from the mark as shown.

For Bread.

Claims use since on or about Jan. 6, 1926.

Ser. No. 274,033. H. C. BOHACK CO., INC., Brooklyn, N. Y. Filed Oct. 20, 1928.




The color lining indicated on the drawing is for shading. No claim is made to the word "Cake" apart from the mark as shown.

For Cake.

Claims use since on or about Apr. 15, 1928.

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Ser. No. 274,049. GERBER & COMPANY, INCORPORATED, New York, N. Y. Filed Oct. 20, 1928.



The color lining shown on the drawing indicates red as the panel coloring and blue for the portion surrounding the panel.

For Cheese.

Claims use since June, 1928.

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Ser. No. 274,086. THE ARMSTRONG PACKING COMPANY, Dallas, Tex. Filed Oct. 22, 1928.

TEXO NUT
NUT MARGARINE

No claim is made to the words "Nut" and "Nut Margarine" apart from the mark as shown in the drawing.

For Oleomargarine.

Claims use since Aug. 15, 1928.

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Ser. No. 274,161. LEWIS-MEARS COMPANY, Boston, Mass. Filed Oct. 23, 1928.

WHITE CLOVER

For Dressed Poultry and Eggs.

Claims use since Jan. 6, 1928.

Ser. No. 274,163. LOFT, INC., Long Island City, N. Y. Filed Oct. 23, 1928.

Briarcliffe

For Ice Cream.
Claims use since Sept. 14, 1928.

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Ser. No. 274,249. ABILENE CANDY MFG. CO., Abilene, Tex. Filed Oct. 25, 1928.




For Candy.
Claims use since Aug. 28, 1928.

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Ser. No. 274,422. WICKHAM BROTHERS, Scranton, Pa. Filed Oct. 27, 1928.

MA-KA-DA

For Vegetable Relish.
Claims use since Aug. 7, 1927.

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Ser. No. 274,423. WICKHAM BROTHERS, Scranton, Pa. Filed Oct. 27, 1928.

SOUTHERN MAMMY

For Mustard Sauce.
Claims use since Aug. 7, 1927.

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Ser. No. 274,554. DE MARTINI MACARONI CO., INC., Brooklyn, N. Y. Filed Oct. 30, 1928.

Pride of AMERICA

For Macaroni, Spaghetti, and Noodles.
Claims use since Oct. 23, 1928.

Ser. No. 274,781. THOMAS GEORGE LAHART, doing business as Lahart Coffee Company, Nashville, Tenn. Filed Nov. 3, 1928.

Southern Maid

For Coffee.
Claims use since Sept. 1, 1928.

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Ser. No. 274,800. J. FRANK SHELLENBERGER COMPANY, doing business as Shellenberger's, Philadelphia, Pa. Filed Nov. 3, 1928.

SELECTOR

For Candy.
Claims use since June, 1928.

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Ser. No. 274,827. EDDY'S STEAM BAKERY, INC., Helena, Great Falls, Missoula, Lewistown, and Butte, Mont. Filed Nov. 5, 1928.

"OLD PLANTATION

For Cakes.
Claims use since Sept. 1, 1928.

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Ser. No. 274,829. HECKER-H-O COMPANY, INC., Buffalo, N. Y. Filed Nov. 5, 1928.




Applicant disclaims the representation of a carton apart from the mark as shown. The lining on drawing indicates the colors blue, red, and yellow.
For Cereal Food Products—Namely, Self-Rising Flour for Cakes, Pies, Biscuits, and Pastry.
Claims use since Oct. 11, 1928.



Ser. No. 274,939. SCHUMACHER BROS. DISTRIBUTING CO., Los Angeles, Calif. Filed Nov. 7, 1928.




For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Fresh Grapes, Fresh Cantaloupes.
Claims use since June 15, 1928.

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Ser. No. 275,022. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

Change

For Candy.
Claims use since about Aug. 1, 1928.

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Ser. No. 275,023. THE CURTISS CANDY COMPANY, Chicago, Ill. Filed Nov. 9, 1928.

COINS

For Candy.
Claims use since about Aug. 15, 1928.

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Ser. No. 275,126. P. PASCAL INC., New York, N. Y. Filed Nov. 10, 1928.

The Long Expected

For Coffee.
Claims use since Apr. 1, 1920.

## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 265,213. SAMUEL HARARY, Brooklyn, N. Y. Filed Apr. 21, 1928.




No claim is made to the words "Chemicalized Buckrum & Paper, Lasting Strength," and "Patent Applied for" apart from the mark shown in the drawing.
For Chemicalized Buckram.
Claims use since January, 1928.

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Ser. No. 266,078. THE BALL & SOCKET MANUFACTURING COMPANY, West Cheshire, Conn. Filed May 8, 1928.

INDESTRUCTO

For Metal Plant and Tree Labels or Tags.
Claims use since May 1, 1927.

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Ser. No. 270,859. NATURALITE SIGNS, INC., Detroit, Mich. Filed Aug. 10, 1928.

NATURALITE

For Nonelectric Signs.
Claims use since May 31, 1928.

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Ser. No. 273,487. THE ASPINOOK CO., Jewett City, Conn. Filed Oct. 8, 1928.

LUSTERSHEEN

For Pyroxylin-Treated Fabrics.
Claims use since Jan. 23, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 18, 1928.

250,727. SOAP. SAMUEL CUMMINS, New York, N. Y. Filed February 1, 1927. Serial No. 243,644. PUBLISHED OCTOBER 9, 1928. Class 4.

250,728. ELECTRICAL CONDENSERS OF CONSTANT CAPACITY AND DEVICES FOR CONNECTING RADIO RECEIVING SETS TO POWER LINES IN LIEU OF AERIAL ANTENNÆ. DUBILIER CONDENSER CORPORATION, New York, N. Y.
Filed November 15, 1926. Serial No. 240,071. PUBLISHED JULY 3, 1928. Class 21.

250,729. ELECTRICAL CONDENSERS OF CONSTANT CAPACITY AND DEVICES FOR CONNECTING RADIO RECEIVING SETS TO POWER LINES IN LIEU OF AERIAL ANTENNÆ. DUBILIER CONDENSER CORPORATION, New York, N. Y.
Filed November 15, 1926. Serial No. 240,070. PUBLISHED JULY 3, 1928. Class 21.

250,730. WOMEN'S HATS. LESCHIN MILLINERY CO., INC., New York, N. Y.
Filed November 1, 1926. Serial No. 239,530. PUBLISHED OCTOBER 2, 1928. Class 39.

250,731. WOMEN'S HATS. LESCHIN MILLINERY CO., INC., New York, N. Y.
Filed November 1, 1926. Serial No. 239,529. PUBLISHED OCTOBER 2, 1928. Class 39.

250,732. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. EDWIN CLAPP & SON, INC., East Weymouth, Mass.
Filed August 15, 1928. Serial No. 271,024. PUBLISHED OCTOBER 2, 1928. Class 39.

250,733. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed August 15, 1928. Serial No. 271,045. PUBLISHED OCTOBER 9, 1928. Class 46.

250,734. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. JELLERSON-RAFTER COMPANY, Norway, Me.
Filed August 15, 1928. Serial No. 271,050. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,735. COOKIES. COLCA-COOKIE CORPORATION, Brooklyn, N. Y.
Filed August 15, 1928. Serial No. 271,066. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,736. COCOANUT MACAROONS. PERFECTION BISCUIT COMPANY, Fort Wayne, Ind.
Filed August 15, 1928. Serial No. 271,078. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,737. MALT EXTRACT. MILWAUKEE DELICATESSEN, INC., Lincoln, Nebr.
Filed August 16, 1928. Serial No. 271,139. PUBLISHED OCTOBER 2, 1928. Class 46.

250,738. REMEDY FOR THE TREATMENT OF CORNS AND CALLOUSES. NOKAL CO., Cleveland, Ohio.
Filed August 16, 1928. Serial No. 271,141. PUBLISHED OCTOBER 9, 1928. Class 6.

250,739. CASE-HARDENING MATERIALS. AMERICAN CYANAMID COMPANY, New York, N. Y.
Filed August 17, 1928. Serial No. 271,159. PUBLISHED OCTOBER 9, 1928. Class 6.

250,740. CASE-HARDENING MATERIALS. AMERICAN CYANAMID COMPANY New York, N. Y.
Filer August 17, 1928. Serial No. 271,160. PUBLISHED OCTOBER 9, 1928. Class 6.

250,741. STERILIZERS, DEODORIZERS, DISINFECTANTS, GERMICIDES, AND FUNGICIDES. MAURICE H. AUERBACH, also doing business as Auerbach's Chemical Company, San Francisco, Calif.
Filed August 17, 1928. Serial No. 271,162. PUBLISHED OCTOBER 9, 1928. Class 6.

250,742. LIQUID PREPARATION FOR THE IMPROVEMENT AND BEAUTIFICATION OF THE SKIN. COTY, INC., Wilmington, Del., and New York, N. Y.
Filed August 17, 1928. Serial No. 271,168. PUBLISHED OCTOBER 9, 1928. Class 6.

250,743. SODIUM ANTIMONATE, THERMALIN, AND TIN OXIDE. METAL & THERMIT CORPORATION, Carteret, N. J.
Filed August 17, 1928. Serial No. 271,192. PUBLISHED OCTOBER 9, 1928. Class 6.

250,744. UNFLAVORED PREPARED FRUIT PECTIN FOR MAKING JELLY FROM FRUIT JUICES. THE PEXEL CO., Chicago, Ill.
Filed August 17, 1928. Serial No. 271,194. PUBLISHED OCTOBER 9, 1928. Class 46.

250,745. CANNED FRUITS. WASHINGTON GROWERS PACKING CORPORATION, also doing business as Washington Canners Co-Operative, Vancouver, Wash.
Filed August 17, 1928. Serial No. 271,220. PUBLISHED OCTOBER 9, 1928. Class 46.

250,746. MONTHLY PERIODICAL. JOSEPH DUBIN, doing business as Malt Age Publishing Company, Chicago, Ill.
Filed August 20, 1928. Serial No. 271,298. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,747. CLEANER AND POLISH OF GLASS AND GLASSWARE. HARRY WILLIAM HOFFHEIMER, doing business as Velco Laboratories, Chicago, Ill.
Filed August 20, 1928. Serial No. 271,303. PUBLISHED OCTOBER 2, 1928. Class 4.

250,748. PERIODICAL. REGISTRAR AND TRANSFER COMPANY, New York, N. Y.
Filed August 20, 1928. Serial No. 271,315. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,749. BRONZE POWDER. SHEFFIELD BRONZE POWDER Co., Cleveland, Ohio.
Filed August 23, 1928. Serial No. 271,457. PUBLISHED OCTOBER 9, 1928. Class 16.

250,750. DEBUFFERING MILK MODIFIER. THE UPJOHN COMPANY, Kalamazoo, Mich.
Filed August 24, 1928. Serial No. 271,516. PUBLISHED OCTOBER 9, 1928. Class 6.

250,751. MONTHLY MAGAZINES. POPULAR AVIATION PUBLISHING COMPANY, Chicago, Ill.
Filed August 25, 1928. Serial No. 271,566. PUBLISHED OCTOBER 9, 1928. Class 38.

250,752. MONTHLY MAGAZINE. ST. MEINRAD ABBEY, St. Meinrad, Ind.
Filed August 28, 1928. Serial No. 271,633. PUBLISHED OCTOBER 9, 1928. Class 38.

250,753. COFFEE, SPICES, CANNED FRUITS, ETC. ISAAC FRANKEL'S SONS, Wilkes-Barre, Pa.
Filed August 20, 1927. Serial No. 253,749. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,754. MILK, CREAM, CHOCOLATE MILK, BUTTERMILK, COTTAGE CHEESE, BUTTER, AND EGGS. EDGAR D. SNYDER, doing business as Snyder's Dairy, Hazleton and Bloomsburg, Pa.
Filed August 3, 1927. Serial No. 252,981. PUBLISHED OCTOBER 2, 1928. Class 46.

250,755. HAND SOAP, FACIAL SOAP, SHAVING CREAM IN PASTE FORM FOR USE BEFORE SHAVING, SHAVING SOAP, AND SHAVING STICK. THE AMERICAN PRODUCTS COMPANY, Cincinnati, Ohio.
Filed July 28, 1927. Serial No. 252,635. PUBLISHED SEPTEMBER 25, 1928. Class 4.





250,756. ELECTRIC DOMESTIC APPLIANCES, MORE PARTICULARLY ELECTRIC FLATIRONS. EDISON ELECTRIC APPLIANCE COMPANY, Chicago, Ill.
Filed July 8, 1927. Serial No. 251,658. PUBLISHED SEPTEMBER 25, 1928. Class 21.

250,757. AN EDUCATIONAL AND AMUSING GAME OF NUMBERS TO BE PLAYED WITH A DECK OF CARDS DIFFERENT FROM ORDINARY PLAYING CARDS. CHARLES H. PERRY, Philadelphia, Pa.
Filed March 12, 1926. Serial No. 228,558. PUBLISHED MAY 4, 1926. Class 22.

250,758. SOAP HOLDERS, TUMBLER HOLDERS, GRAB RAILS, PAPER HOLDERS, SPONGE HOLDERS, TOOTHBRUSH HOLDERS, DENTIFRICE HOLDERS, TOWEL BARS, SHELF BRACKETS, ROBE HOOKS, AND DOORSTOPS. THE TRUMBULL ELECTRIC MANUFACTURING COMPANY, Plainville, Conn.
Filed December 5, 1925. Serial No. 224,308. PUBLISHED MARCH 23, 1926. Class 13.

250,759. DEVICES NOT MADE OF PRECIOUS METAL FOR ATTACHING AND SUPPORTING SHOE BUCKLES. PRIMROSE NOVELTY CORPORATION, New York, N. Y.
Filed July 17, 1926. Serial No. 234,677. PUBLISHED SEPTEMBER 18, 1928. Class 40.

250,760. PAPERS CONSISTING OF SULPHITE, KRAFT, GROUND WOOD, MANILA, AND EXPRESS WRAPPING PAPER FOR WRAPPING AND PACKING MERCHANDISE OF COMMERCE; BAG AND ENVELOPE PAPERS FOR MANUFACTURING BAGS, ENVELOPES, AND PAPER CONTAINERS; FRUIT PAPER FOR WRAPPING AND PACKING CITRUS AND DECIDUOUS FRUITS, TRAY PAPER FOR DRYING RAISINS, AND OTHER FRUITS, NEWSPAPER FOR PRINTING AND PUBLISHING. CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif.
Filed July 28, 1926. Serial No. 235,253. PUBLISHED AUGUST 28, 1928. Class 37.

250,761. GASOLINE, LUBRICATING AND FUEL OILS, AND LUBRICATING GREASES. CARL STUDNA, doing business as Superba Gasoline & Oil Company, Kansas City, Mo.
Filed September 24, 1926. Serial No. 237,707. PUBLISHED NOVEMBER 15, 1927. Class 15.

250,762. CHOCOLATE CAKE, RAISIN CAKE, NUT CAKE, MARBLE CAKE, AND COOKIES. GRANDMA COOKIE CO., Oakland, Calif.
Filed October 6, 1926. Serial No. 238,215. PUBLISHED DECEMBER 14, 1926. Class 46.

250,763. BATH SALTS. STORFER LABORATORIES INC., New York, N. Y.
Filed February 15, 1927. Serial No. 244,416. PUBLISHED JUNE 1, 1927. Class 6.

250,764. ROASTED COFFEE MIXTURES, TEAS, SPICES, CHOCOLATE, COCOA, SHREDDED COCONUT, FLAVORING EXTRACTS FOR FOOD, AND TABLE SYRUP. THE SPRAY COFFEE AND SPICE COMPANY, Denver, Colo.
Filed September 29, 1927. Serial No. 255,404. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,765. FRESH VEGETABLES, FRESH MELONS, FRESH BERRIES, FRESH CRANBERRIES. FRED JOHN DAY, doing business as Precooling Car Service Co., Los Angeles, Calif.
Filed August 30, 1927. Serial No. 254,127. PUBLISHED OCTOBER 2, 1928. Class 46.

250,766. MAGAZINE ARTICLES. FAIRCHILD COMPANY, Chicago, Ill.
Filed August 29, 1927. Serial No. 254,075. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,767. CANDY. FAIR PLAY CARAMELS, INC., Johnson City, N. Y.
Filed April 18, 1927. Serial No. 247,608. PUBLISHED FEBRUARY 28, 1928. Class 46.

250,768. BANDEAUX, BRASSIÈRES, GIRDLES, AND CORSETS. LEWEL MFG. CO. INC., New York, N. Y.
Filed January 30, 1928. Serial No. 260,896. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,769. BOOKLETS. STANDARD ACCIDENT INSURANCE COMPANY, Detroit, Mich.
Filed August 28, 1928. Serial No. 271,664. PUBLISHED OCTOBER 9, 1928. Class 38.

250,770. QUARTERLY PUBLICATION. WESTERN STORIES PUBLISHING CORP., New York, N. Y.
Filed August 28, 1928. Serial No. 271,672. PUBLISHED OCTOBER 9, 1928. Class 38.

250,771. GREETING CARDS, WEDDING INVITATIONS, AND ANNOUNCEMENTS. CHRYSON'S INC., Los Angeles, Calif.
Filed August 29, 1928. Serial No. 271,682. PUBLISHED OCTOBER 9, 1928. Class 38.

250,772. CANNED FISH. COAST FISHING COMPANY, Wilmington, Calif.
Filed August 29, 1928. Serial No. 271,683. PUBLISHED OCTOBER 9, 1928. Class 46.

250,773. CANDY. LUDEN'S INC., Reading, Pa.
Filed August 29, 1928. Serial No. 271,702. PUBLISHED OCTOBER 9, 1928. Class 46.

250,774. COFFEE. SEAPORT COFFEE CO., INC., Houston, Tex.
Filed August 29, 1928. Serial No. 271,711. PUBLISHED OCTOBER 9, 1928. Class 46.

250,775. CHOCOLATE COATING AND CENTERS USED IN THE MANUFACTURE OF CONFECTIONS. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill.
Filed August 29, 1928. Serial No. 271,715. PUBLISHED OCTOBER 9, 1928. Class 46.

250,776. CANDIES. ELANORA G. JACKSON, Swampscott, Mass.
Filed June 27, 1928. Serial No. 268,735. PUBLISHED OCTOBER 9, 1928. Class 46.

250,777. MISSES', JUNIORS', AND CHILDREN'S DRESSES, SKIRTS FOR OUTER WEAR, PANTIES, BLOUSES, COATS, AND HATS. LOUIS J. MALLAS, INC., New York, N. Y.
Filed June 29, 1928. Serial No. 268,874. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,778. LIVE AND DRESSED CHICKENS, TURKEYS, DUCKS, GEESE, PIGEONS FOR FOOD PURPOSES, AND SQUABS, AND FOR THE FOLLOWING PRODUCTS, ALL IN THEIR NATURAL STATE: EGGS, ORANGES, GRAPES, GRAPEFRUIT, LEMONS, LIMES, HONEY, NUTS, PEACHES, PEANUTS, SWEET POTATOES, ONIONS, MELONS, CUCUMBERS, PEAS, BEANS, CANTALOUPES, AND TOMATOES. ROBERT BLUMER, Falfurrias, Tex.
Filed June 30, 1928. Serial No. 268,906. PUBLISHED OCTOBER 9, 1928. Class 46.

250,779. WATCHCASES. HERMAN SCHLACHT, New York, N. Y.
Filed June 30, 1928. Serial No 268,940. PUBLISHED SEPTEMBER 25, 1928. Class 27.

250,780. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER OR FABRIC OR COMBINATIONS OF THOSE MATERIALS. ELCO SHOE MANUFACTURERS, INC., Brooklyn, N. Y.
Filed July 2, 1928. Serial No. 268,975. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,781. WHEAT FLOUR. THE CARE MILLING COMPANY, Hamilton, Ohio.
Filed October 7, 1927. Serial No. 255,748. PUBLISHED JANUARY 10, 1928. Class 46.

250,782. NONCORROSIVE COATING METAL AND SOLDERING METAL. AMERICAN MACHINE & FOUNDRY COMPANY, Jersey City, N. J., and New York and Brooklyn, N. Y.
Filed October 27, 1927. Serial No. 256,654. PUBLISHED DECEMBER 20, 1927. Class 14.

250,783. TOOTH PASTE OR DENTIFRICE. LLOYD O. BRIGHTFIELD, doing business as "The Soda-Dent Company, Baltimore, Md., assignor to The Soda-Dent Company, Baltimore, Md., a Body Corporate.
Filed October 31, 1927. Serial No. 256,807. PUBLISHED OCTOBER 9, 1928. Class 6.

250,784. LADIES' AND MISSES' HATS. SCHNEIDER BROS. MILLINERY CO., St. Louis, Mo.
Filed November 26, 1927. Serial No. 258,100. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,785. FELT BODIES FOR LADIES' HATS. THE TUXEDO HAT BODY CORPORATION, New York, N. Y.
Filed December 2, 1927. Serial No. 258,365. PUBLISHED OCTOBER 2, 1928. Class 39.

250,786. VARNISHES, VARNISH STAINS, AND PAINT ENAMELS. REPUBLIC PAINT & VARNISH WORKS, Chicago, Ill.
Filed December 5, 1927. Serial No. 258,494. PUBLISHED OCTOBER 9, 1928. Class 16.

250,787. WATCHES AND CLOCKS. CHARLES M. LEVY & SON, New York, N. Y.
Filed December 8, 1927. Serial No. 258,639. PUBLISHED JANUARY 31, 1928. Class 27.

250,788. HAIR COMBS MADE OF CELLULOID, AND HAIR PIECES. JESSE OPPENHEIM, New York, N. Y.
Filed January 4, 1928. Serial No. 259,690. PUBLISHED SEPTEMBER 18, 1928. Class 40.

250,789. ARTISTS' COLORS AND ARTISTS' PAINTS. FRITZ BEHRENDT, Grafrath, near Munich, Germany.
Filed January 17, 1928. Serial No. 260,207. PUBLISHED MAY 15, 1928. Class 16.

250,790. LADIES' AND WOMEN'S HATS. TOBIAS G. COOK, Minneapolis, Minn.
Filed January 21, 1928. Serial No. 260,426. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,791. CERTAIN NAMED WEARING APPAREL. EVRARD & FICHET, Paris, France.
Filed January 24, 1928. Serial No. 260,560. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,792. CANNED BAMBOO SHOOTS. K. ISHIHARA COMPANY, also doing business as Ishihara Canning Co., San Francisco, Calif.
Filed August 31, 1928. Serial No. 271,810. PUBLISHED OCTOBER 9, 1928. Class 46.

250,793. TITLE FOR A COMIC STRIP PUBLISHED DAILY EXCEPT SUNDAY. PRESS PUBLISHING COMPANY, New York, N. Y.
Filed August 31, 1928. Serial No. 271,820. PUBLISHED OCTOBER 9, 1928. Class 38.

250,794. TABULARIZED BLANK BOOKS FOR RECORDING HOME EXPENSES. SCHAEFER-JOHNSTON CO., New York, N. Y.
Filed February 18, 1928. Serial No. 261,913. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,795. STATIONERY—TO WIT, WRITING PAPER, NOTE PAPER, AND ENVELOPES FOR SAID WRITING PAPER AND NOTE PAPER. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 18, 1928. Serial No. 261,928. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,796. CANNED VEGETABLES AND FRUITS, CHOP SUEY, ETC. HAAS-BARUCH & COMPANY, Los Angeles, Calif.
Filed February 23, 1928. Serial No. 262,082. PUBLISHED OCTOBER 9, 1928. Class 46.

250,797. FLASH LIGHTS. BLAKE MANUFACTURING CO., Springfield, Mass.
Filed March 6, 1928. Serial No. 262,645. PUBLISHED OCTOBER 9, 1928. Class 21.

250,798. GELATIN DESSERT POWDER, PUDDING POWDERS, AND DEVIL'S-FOOD CAKE MIX. EASTERN PRODUCTS COMPANY, New York, N. Y.
Filed May 2, 1928. Serial No. 265,782. PUBLISHED OCTOBER 9, 1928. Class 46.

250,799. GASOLINE, LUBRICATING OILS, AND LUBRICATING GREASES. SHERWOOD BROS. INC., Baltimore, Md.
Filed May 3, 1928. Serial No. 265,860. PUBLISHED OCTOBER 9, 1928. Class 15.

250,800. FRUIT PRESERVES, VEGETABLE FAT; SALAD OIL, A COTTONSEED PRODUCT; HONEY, AND COCOA. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed May 18, 1928. Serial No. 266,623. PUBLISHED OCTOBER 9, 1928. Class 46.

250,801. TOILET PAPER. CAPITAL PAPER COMPANY, Indianapolis, Ind.
Filed May 21, 1928. Serial No. 266,711. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,802. ELECTRIC CURLING IRONS, ELECTRIC CIGAR LIGHTERS, ELECTRIC WAFFLE IRONS, ELECTRIC TABLE STOVES, ELECTRIC PERCOLATORS, ELECTRIC CANDLE SETS, ELECTRIC TOASTERS, ELECTRIC TABLE GRILLS, ELECTRIC BOTTLE WARMERS, ELECTRIC LAMPS, ELECTRIC ROOM HEATERS, ELECTRIC CONNECTING PLUGS, ELECTRIC SWITCHES, THERMOSTATICALLY-CONTROLLED ELECTRIC SWITCHES, AND ELECTRIC ATOMIZERS. THE BEARDSLEY & WOLCOTT MFG. CO., Hartford, Conn.
Filed June 1, 1928. Serial No. 267,291. PUBLISHED OCTOBER 9, 1928. Class 21.

250,803. DRY STENCILS. THE THETA DRY STENCIL CORPORATION, New York, N. Y.
Filed June 5, 1928. Serial No. 267,519. PUBLISHED OCTOBER 9, 1928. Class 37.

250,804. CANNED FRUIT, CANNED VEGETABLES, CANNED FISH, SPICES, BOTTLED OLIVES, PICKLES, PEANUT BUTTER, PEACH PRESERVES, RASPBERRY PRESERVES, AND SWEET AND SOUR RELISHES MADE OF CHOPPED PICKLES, CAULIFLOWER, ONIONS, CABBAGE, TOMATOES, RED AND GREEN PEPPERS, VINEGAR, AND SUGAR. GREBBE BROS., Brooklyn, N. Y.
Filed June 15, 1928. Serial No. 268,090. PUBLISHED OCTOBER 9, 1928. Class 46.

250,805. LUBRICATING OIL. HENRY J. SIEMER, doing business as Merchants Oil Co., Cincinnati, Ohio.
Filed June 15, 1928. Serial No. 268,116. PUBLISHED OCTOBER 9, 1928. Class 15.

250,806. LUBRICATING OILS, WAXES, AND GREASES. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 26, 1928. Serial No. 268,717. PUBLISHED SEPTEMBER 25, 1928. Class 15.

250,807. LUBRICATING OILS, WAXES, AND GREASES. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 26, 1928. Serial No. 268,719. PUBLISHED SEPTEMBER 25, 1928. Class 15.

250,808. CONCRETE MIXERS. CHAIN BELT COMPANY, Milwaukee, Wis.
Filed August 30, 1928. Serial No. 271,739. PUBLISHED OCTOBER 9, 1928. Class 23.

250,809. STENCIL PAPER FOR USE IN DUPLICATING MACHINES. FORT PITT TYPEWRITER COMPANY, Pittsburgh, Pa.
Filed August 22, 1928. Serial No. 271,880. PUBLISHED OCTOBER 9, 1928. Class 37.

250,810. MANIFOLD FORMS. THE REYNOLDS & REYNOLDS COMPANY, Dayton, Ohio.
Filed August 21, 1928. Serial No. 271,860. PUBLISHED OCTOBER 9, 1928. Class 37.

250,811. ELECTRIC STORAGE BATTERIES AND PARTS THEREOF. THE RELIABLE STORAGE BATTERY & PLATES MFG. CO., Chicago, Ill.
Filed August 17, 1928. Serial No. 271,199. PUBLISHED OCTOBER 9, 1928. Class 21.



250,812. MALT SYRUP. W. C. LEHNERT, doing business as Frederick Malt & Products Co., Baltimore, Md.
Filed August 16, 1928. Serial No. 271,132. PUBLISHED OCTOBER 9, 1928. Class 46.

250,813. EAU DE COLOGNE, BATH SALT, PERFUMERY; LOTIONS FOR THE HAIR, SKIN, AND MOUTH; FACE, TOILET, AND TALCUM POWDERS; SKIN AND BEAUTY CREAMS, BRILLIANTINE, HAIR PAINTS, PREPARATIONS FOR BEAUTIFYING AND PRESERVING THE HUMAN HAIR, DENTIFRICES, SACHETS, SMELLING SALTS, TOILET WATER, NAIL BLEACH, AND LIQUID CUTICLE REMOVER. NAAMLOOZE VENNOOTSCHAP INTERNATIONAL PERFUMERY COMPANY, Amsterdam, Netherlands.
Filed June 20, 1928. Serial No. 268,380. PUBLISHED OCTOBER 9, 1928. Class 6.

250,814. TOILET PAPER. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y.
Filed August 16, 1928. Serial No. 271,105. PUBLISHED OCTOBER 2, 1928. Class 37.

250,815. TOILET PAPER. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany N. Y.
Filed August 16, 1928. Serial No. 271,104. PUBLISHED OCTOBER 2, 1928. Class 37.

250,816. TOILET PAPER. ALBANY PERFORATED WRAPPING PAPER COMPANY, Albany, N. Y.
Filed August 16, 1928. Serial No. 271,103. PUBLISHED OCTOBER 2, 1928. Class 37.

250,817. ILLUMINATING OILS, FUEL OILS, LUBRICATING OILS AND GREASES, DISTILLATE, AND GASOLINE. GRAYBURG OIL COMPANY, San Antonio, Tex.
Filed August 15, 1928. Serial No. 271,044. PUBLISHED OCTOBER 9, 1928. Class 15.

250,818. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,043. PUBLISHED OCTOBER 9, 1928. Class 28.

250,819. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15 1928. Serial No. 271,039. PUBLISHED OCTOBER 9, 1928. Class 28.

250,820. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,038. PUBLISHED OCTOBER 9, 1928. Class 28.

250,821. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,037. PUBLISHED OCTOBER 9, 1928. Class 28.

250,822. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,036. PUBLISHED OCTOBER 9, 1928. Class 28.

250,823. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,035. PUBLISHED OCTOBER 9, 1928. Class 28.

250,824. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,034. PUBLISHED OCTOBER 9, 1928. Class 28.

250,825. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,033. PUBLISHED OCTOBER 9, 1928. Class 28.

250,826. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,031. PUBLISHED OCTOBER 9, 1928. Class 28.

250,827. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,030. PUBLISHED OCTOBER 9, 1928. Class 28.

250,828. WATCH BRACELETS. GEMEX COMPANY, Newark, N. J.
Filed August 15, 1928. Serial No. 271,029. PUBLISHED OCTOBER 9, 1928. Class 28.

250,829. MALT SYRUP. SAMUEL A. COHN & BRO., doing business as Brüder Distributing Co., Hazleton, Pa.
Filed August 15, 1928. Serial No. 271,021. PUBLISHED OCTOBER 9, 1928. Class 46.

250,830. BATTERIES AND BATTERY PARTS. LYON BATTERY WORKS, Louisville, Ky.
Filed August 13, 1928. Serial No. 270,970. PUBLISHED OCTOBER 9, 1928. Class 21.

250,831. SELF-OILING TROLLEY WHEELS, SELF-OILING OR OIL-DISTRIBUTING BUSHINGS FOR TROLLEY WHEELS AND TROLLEY HARPS. MOCCASIN BUSHING COMPANY, Chattanooga, Tenn.
Filed August 8, 1928. Serial No. 270,776. PUBLISHED OCTOBER 9, 1928. Class 21.

250,832. ELECTRIC LANTERNS, FLASH LIGHTS, ELECTRIC CANDLES, ETC. YALE ELECTRIC CORPORATION, Jersey City, N. J.
Filed August 3, 1928. Serial No. 270,564. PUBLISHED OCTOBER 9, 1928. Class 21.

250,833. LUBRICATING OILS. JOSEPH W. KANE, doing business as Easy Oil Company, Pittsburgh, Pa.
Filed July 24, 1928. Serial No. 270,084. PUBLISHED OCTOBER 9, 1928. Class 15.

250,834. LETTERHEADS. HUNTON & HOXIE CO., INC., Boston, Mass.
Filed July 23, 1928. Serial No. 270,027. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,835. WATCH BRACELETS, LORGNETTE CHAINS, FINGER RINGS, VEST SETS, NECKLACES, PENDANTS, BRACELETS, CUFF LINKS, BAR PINS, ORNAMENTAL HATPINS, BROOCHES, HANDY PINS, SCARFPINS, AND OTHER ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. TAYLOR & CO., INC., Newark, N. J.
Filed July 21, 1928. Serial No. 269,995. PUBLISHED OCTOBER 9, 1928. Class 28.

250,836. STENCILS AND PAPER THEREFOR. HALO-WAX CORPORATION, New York, N. Y.
Filed July 19, 1928. Serial No. 269,843. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,837. HONEY. TEA GARDEN PRODUCTS CO., formerly doing business as Pacific Coast Syrup Co., San Francisco, Calif.
Filed July 18, 1928. Serial No. 269,809. PUBLISHED OCTOBER 9, 1928. Class 46.

250,838. GASOLINE AND MOTOR-FUEL OILS. HUMBLE OIL & REFINING COMPANY, Houston, Tex.
Filed July 18, 1928. Serial No. 269,786. PUBLISHED OCTOBER 9, 1928. Class 15.

250,839. GASOLINE AND MOTOR-FUEL OILS. HUMBLE OIL & REFINING COMPANY, Houston, Tex.
Filed July 18, 1928. Serial No. 269,785. PUBLISHED OCTOBER 9, 1928. Class 15.

250,840. FINGER RINGS, ORNAMENTAL PINS, PENDANTS, BRACELETS, SAUTOIRS, AND SIMILAR ARTICLES OF JEWELRY FOR PERSONAL WEAR, NOT INCLUDING WATCHES. BENJAMIN LEADER, Chicago, Ill.
Filed July 16, 1928. Serial No. 269,667. PUBLISHED OCTOBER 9, 1928. Class 28.

250,841. SUGAR. J. D. and A. B. SPRECKELS SECURITIES COMPANY, San Francisco, Calif.
Filed June 23, 1925. Serial No. 216,294. PUBLISHED JUNE 21, 1927. Class 46.

250,842. BATTERY CHARGERS. JOHNSON MOTOR PRODUCTS CO. INC., Chicago, Ill.
Filed December 3, 1926. Serial No. 240,915. PUBLISHED OCTOBER 9, 1928. Class 21.

250,843. PAPER FOR STATIONERY USE FOR BUSINESS FORMS PRINTED WITH STANDARD BUSINESS INK AND ALSO PRINTED WITH DITTO OR HECTOGRAPH INK AND FOR USE IN RUNNING DITTO COPIES FROM TYPEWRITTEN ORIGINALS AND DITTO OR HECTOGRAPH ORIGINALS. DITTO, INCORPORATED, Chicago, Ill.
Filed September 2, 1927. Serial No. 254,269. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,844. BRACELETS, BROOCHES, BAR PINS, SCARF-PINS, AND RINGS MADE OF PRECIOUS METALS. FULMER & GIBBONS, Philadelphia, Pa.
Filed January 13, 1928. Serial No. 260,053. PUBLISHED OCTOBER 9, 1928. Class 28.

250,845. PENETRATING OIL. PERFECTO MANUFACTURING CO., Chicago, Ill.
Filed July 2, 1928. Serial No. 269,000. PUBLISHED OCTOBER 9, 1928. Class 15.

250,846. STATIONERY CONSISTING OF LAWN PAPERS, LINEN PAPERS, AND THE LIKE FOR PERSONAL CORRESPONDENCE. CHRYSON'S, INC., Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,087. PUBLISHED SEPTEMBER 25, 1928. Class 37.

250,847. RADIOANTENNA. GUSTIN-BACON MANUFACTURING COMPANY, Kansas City, Mo.
Filed July 5, 1928. Serial No. 269,116. PUBLISHED OCTOBER 9, 1928. Class 21.

250,848. ELECTRICAL COMBINED HEATER AND DRYER FOR DRYING THE HAIR, HANDS, AND FACE AND FOR DRYING SMALL ARTICLES OF WEARING APPAREL; VACUUM CLEANERS, ELECTRIC CREAM WHIPPING AND MIXING MACHINES, AND ELECTRIC HOT-WATER POTS. THE ELECTARE COMPANY, Chicago, Ill.
Filed July 9, 1928. Serial No. 269,281. PUBLISHED OCTOBER 9, 1928. Class 21.

250,849. GASOLINE. THE VICKERS PETROLEUM COMPANY, Wichita, Kans.
Filed July 6, 1928. Serial No. 269,213. PUBLISHED OCTOBER 9, 1928. Class 15.

250,850. ELECTRON TUBES. CHAMPION RADIO WORKS, INC., Danvers, Mass.
Filed July 12, 1928. Serial No. 269,462. PUBLISHED OCTOBER 9, 1928. Class 21.

250,851. MALT SYRUP. BOHEMIAN DISTRIBUTING CO. INC., Los Angeles, Calif.
Filed July 13, 1928. Serial No. 269,508. PUBLISHED OCTOBER 9, 1928. Class 46.

250,852. PETROLEUM PRODUCTS—NAMELY, KEROSENE, GASOLINE, AND LUBRICANTS. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed July 13, 1928. Serial No. 269,550. PUBLISHED OCTOBER 9, 1928. Class 15.

250,853. RADIO RECEIVING SETS ADAPTED FOR INSTALLATION IN OR FOR COMBINATION OR ASSOCIATION WITH PIANOS AND GRAND PIANOS; RADIO RECEIVING SETS HAVING AS CABINETS OR ENCLOSURES THEREFOR PARTS OF PIANOS. PREMIER GRAND PIANO CORPORATION, New York, N. Y.
Filed February 11, 1925. Serial No. 209,429. PUBLISHED OCTOBER 9, 1928. Class 21.

250,854. LEATHER-TREATING EMULSION. PETER D. LUDY, Boston, Mass.
Filed April 4, 1928. Serial No. 264,315. PUBLISHED OCTOBER 2, 1928. Class 4.

250,855. SOAP WITH DETERGENT PROPERTIES. ELMER RAUH, doing business as The Gumption Products Company, Dayton, Ohio.
Filed April 2, 1928. Serial No. 264,199. PUBLISHED SEPTEMBER 25, 1928. Class 4.

250,856. ELECTRIC CONNECTORS, SOCKETS, OUTLET BOXES, HANGERS, SHADE HOLDERS, SHADES, REFLECTORS, AND LIGHTING-FIXTURE-SUSPENSION MEANS. HENRY D'OLIER, Jr., Bridgeport, Conn.
Filed March 30, 1928. Serial No. 264,026. PUBLISHED SEPTEMBER 25, 1928. Class 21.

250,857. COMPLETELY-PRINTED PUBLICATIONS. THE CRIME CLUB, INC., Garden City, N. Y.
Filed March 29, 1928. Serial No. 263,930. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,858. MEDICINE FOR THE TREATMENT OF STOMACH, LIVER, KIDNEY, AND GALL-BLADDER AFFECTIONS. SAMUEL I. HOLLINGER, doing business as Hollinger Remedy Co., Elkhart, Ind.
Filed March 27, 1928. Serial No. 263,824. PUBLISHED AUGUST 28, 1928. Class 6.

250,859. LUBRICATING OIL. RICHFIELD OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed March 20, 1928. Serial No. 263,515. PUBLISHED JUNE 26, 1928. Class 15.

250,860. EYE SALVE. JOHN KAHADKA, doing business as Teutonia Eye Salve Co., Buffalo, N. Y.
Filed March. 20, 1928. Serial No. 263,475. PUBLISHED AUGUST 14, 1928. Class 6.

250,861. FRESH FRUITS AND FRESH VEGETABLES—NAMELY, PEARS, APPLES, PEACHES, PLUMS, GRAPES, PRUNES, CHERRIES, APRICOTS, PINEAPPLES, ASPARAGUS, TOMATOES, PEPPERS, EGGPLANT, POTATOES, ORANGES, GRAPEFRUIT, TANGERINES, LEMONS, CELERY, AND PERSIMMONS. SCORSE & DAY, INC., New York, N. Y.
Filed March 19, 1928. Serial No. 263,435. PUBLISHED JUNE 12, 1928. Class 46.

250,862. WOOD-WIND, BRASS, AND REED MUSICAL INSTRUMENTS AND PARTS THEREOF CONSISTING OF MOUTHPIECES AND REEDS. CARL FISCHER INC., New York, N. Y.
Filed March 17, 1928. Serial No. 263,312. PUBLISHED SEPTEMBER 25, 1928. Class 36.

250,863. CERTAIN NAMED WEARING APPAREL. FRANZ ENTRESS, Nurtingen, Germany.
Filed March 15, 1928. Serial No. 263,209. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,864. CONTAINERS ADAPTED TO STORE POP CORN, BEANS, CORN, FRUIT, AND OTHER EDIBLES. LE-MUL MFG. CO., St. Paul, Minn.
Filed March 7, 1928. Serial No. 262,720. PUBLISHED OCTOBER 9, 1928. Class 2.

250,865. ELECTRIC SADIRON. JOSEPH B. KOVAR, doing business as B-H Electrical Laboratories, Benton Harbor, Mich.
Filed March 5, 1928. Serial No. 262,613. PUBLISHED SEPTEMBER 25, 1928. Class 21.

250,866. HYDROCARBON SOLVENTS FOR CLEANING AND DETERGENT PURPOSES. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del.
Filed February 29, 1928. Serial No. 262,419. PUBLISHED OCTOBER 2, 1928. Class 4.

250,867. MAGAZINE PUBLISHED MONTHLY. MCGRAW-SHAW COMPANY, Chicago, Ill.
Filed February 28, 1928. Serial No. 262,369. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,868. HARNESS. MILWAUKEE SADDLERY COMPANY, Milwaukee, Wis.
Filed February 25, 1928. Serial No. 262,233. PUBLISHED SEPTEMBER 25, 1928. Class 3.

250,869. REFRIGERATORS, BEVERAGE COOLERS, AND ICE-CREAM FREEZERS, ALL OF HOUSEHOLD SIZES. CITOGEL GESELLSCHAFT FÜR CHEMISCHE UND TECHNISCHE ERZEUGNISSE M. B. H., Hamburg, Germany.
Filed February 24, 1928. Serial No. 262,152. PUBLISHED OCTOBER 2, 1928. Class 31.



250,870. CASTILE SOAP. WINDSOR SOAP CO., INC., Buffalo, N. Y.
Filed February 20, 1928. Serial No. 262,010. PUBLISHED SEPTEMBER 25, 1928. Class 4.

250,871. EDIBLE OILS OF ALL KINDS. SALGADO Y COMPANIA, S. A. UNION COMMERCIAL DE ACEITES, Madrid, Sevilla, and Vilches, Spain.
Filed February 15, 1928. Serial No. 261,723. PUBLISHED SEPTEMBER 18, 1928. Class 46.

250,872. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. FRENCH, SHRINER & URNER, Boston, Mass.
Filed February 11, 1928. Serial No. 261,561. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,873. RADIOCONDENSERS AND ELECTRON TUBES AND BATTERY-CHARGING RECTIFIERS. STEWART BATTERY CO., Chicago, Ill.
Filed February 3, 1928. Serial No. 261,153. PUBLISHED SEPTEMBER 25, 1928. Class 21.

250,874. CARPETS AND RUGS, BOTH TEXTILE. BREESLIN-GRIFFITT CARPET COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,825. PUBLISHED OCTOBER 9, 1928. Class 42.

250,875. CARPETS AND RUGS, BOTH TEXTILE. BREESLIN-GRIFFITT CARPET COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,824. PUBLISHED OCTOBER 9, 1928. Class 42.

250,876. CARPETS AND RUGS, BOTH TEXTILE. BREESLIN-GRIFFITT CARPET COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,822. PUBLISHED OCTOBER 9, 1928. Class 42.

250,877. CANNED GOULASH. CARL J. BRUDER, doing business as Bruder's Goulash Kitchen, Portland, Ore.
Filed August 9, 1928. Serial No. 270,790. PUBLISHED OCTOBER 9, 1928. Class 46.

250,878. LADIES' HATS, CHILDREN'S AND MISSES' HATS, AND TAMS. MISSY HAT CO., INC., New York, N. Y.
Filed August 8, 1928. Serial No. 270,775. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,879. VARNISHES, VARNISH STAINS, AND PAINT ENAMELS. ELLIOTT VARNISH CO., Chicago, Ill.
Filed August 8, 1928. Serial No. 270,741. PUBLISHED OCTOBER 9, 1928. Class 16.

250,880. VARNISHES AND PAINT ENAMELS. ELLIOTT VARNISH CO., Chicago, Ill.
Filed August 8, 1928. Serial No. 270,740. PUBLISHED OCTOBER 9, 1928. Class 16.

250,881. PERIODICAL. HAROLD J. SHIELD, doing business as the Home-Garden Publishing Co., San Francisco, Calif.
Filed August 7, 1928. Serial No. 270,728. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,882. STEEL. EDGAR ALLEN & CO. LIMITED, Sheffield, England.
Filed August 15, 1928. Serial No. 271,028. PUBLISHED SEPTEMBER 25, 1928. Class 14.

250,883. CANNED FRUITS AND CANNED VEGETABLES. THE CONTINENTAL FRUIT PACKING CO., LIMITED, London, England.
Filed August 15, 1928. Serial No. 271,022. PUBLISHED OCTOBER 9, 1928. Class 46.

250,884. CAKE AND PASTRY FLOUR. ALBERS BROS. MILLING CO., San Francisco, Calif.
Filed August 15, 1928. Serial No. 271,015. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,885. AUTOMOBILE TOP DRESSING. JAMES E. MCGUIRE, Camden, N. J.
Filed August 14, 1928. Serial No. 270,999. PUBLISHED OCTOBER 9, 1928. Class 4.

250,886. LACQUERS, ENAMELS, VARNISHES, AND MIXED PAINTS. DEVOE & RAYNOLDS CO., INC., New York, N. Y.
Filed August 13, 1928. Serial No. 270,958. PUBLISHED OCTOBER 9, 1928. Class 16.

250,887. LACQUERS, PAINT ENAMELS, VARNISHES, AND MIXED PAINTS. DEVOE & RAYNOLDS CO., INC., New York, N. Y.
Filed August 13, 1928. Serial No. 270,957. PUBLISHED OCTOBER 9, 1928. Class 16.

250,888. PERIODICAL. UNITED PUBLISHING COMPANY, Kansas City, Mo.
Filed August 13, 1928. Serial No. 270,946. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,889. PERIODICAL. NEWS MESSENGER PUBLISHING CO., Marshall, Tex., and Shreveport, La.
Filed August 13, 1928. Serial No. 270,936. PUBLISHED SEPTEMBER 25, 1928. Class 38.

250,890. MALT SYRUP. JULIUS HEILWEIL, doing business as The Bronx Home Products Company, New York, N. Y.
Filed August 11, 1928. Serial No. 270,885. PUBLISHED OCTOBER 2, 1928. Class 46.

250,891. MALT SYRUP. MORRIS H. GERTNER, doing business Gertner Malt Company, Columbus, Ohio.
Filed August 11, 1928. Serial No. 270,883. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,892. TABLECLOTHS, NAPKINS, TOWELS, SCARFS, DOILIES, BEDSPREADS, AND TRAY CLOTHS TEXTILE IN NATURE. WEIL & DURRSE, New York, N. Y.
Filed August 10, 1928. Serial No. 270,868. PUBLISHED OCTOBER 9, 1928. Class 42.

250,893. CARPETS AND RUGS, BOTH TEXTILE. BREESLIN-GRIFFITT CARPET COMPANY, New York, N. Y.
Filed August 10, 1928. Serial No. 270,827. PUBLISHED OCTOBER 9, 1928. Class 42.

250,894. PURE SAGE HONEY, RELISH SPREAD, FISH, ETC. MUTUAL STORES, INC., Oakland, Calif.
Filed April 7, 1928. Serial No. 264,496. PUBLISHED OCTOBER 2, 1928. Class 46.

250,895. TABLE SYRUP. TEA GARDEN PRODUCTS CO., San Francisco, Calif.
Filed July 18, 1928. Serial No. 269,806. PUBLISHED OCTOBER 2, 1928. Class 46.

250,896. ORNAMENTAL PINS, BROOCHES, BRACELETS, AND BEAD NECKLACES. COLONIAL BEAD CO. INC., New York, N. Y.
Filed July 17, 1928. Serial No. 269,719. PUBLISHED SEPTEMBER 25, 1928. Class 28.

250,897. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. GENERAL FOOTWEAR CORPORATION, New York, N. Y.
Filed July 16, 1928. Serial No. 269,653. PUBLISHED OCTOBER 2, 1928. Class 39.

250,898. LEATHER SHOES. DURAND SHOE CO., Boston, Mass.
Filed July 16, 1928. Serial No. 269,646. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,899. METAL CASTINGS. CALUMET FOUNDRY & MACHINE COMPANY, East Chicago, Ind.
Filed July 16, 1928. Serial No. 269,633. PUBLISHED OCTOBER 9, 1928. Class 14.

250,900. SHOE AND LEATHER DRESSING. NEWTON E. BAKER, doing business as Hollywood Color Company, Los Angeles, Calif.
Filed July 14, 1928. Serial No. 269,571. PUBLISHED OCTOBER 9, 1928. Class 4.

250,901. FINGER RINGS. MAURICE RICHARDS, New York, N. Y.
Filed July 12, 1928. Serial No. 269,483. PUBLISHED SEPTEMBER 25, 1928. Class 28.

250,902. MALT-COMPOUND POWDER USED TO IMPROVE AND INCREASE THE YIELD IN MAKING BREAD. THE GAMBRILL GRAIN PRODUCTS CO., Baltimore, Md.
Filed July 12, 1928. Serial No. 269,452. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,903. CHILDREN'S SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC AND RUBBER AND FABRIC. ACME SHOE MANUFACTURING COMPANY, Chicago, Ill.
Filed July 12, 1928. Serial No. 269,440. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,904. EDUCATIONAL BULLETINS AND LITERATURE. RAIL STEEL BAR ASSOCIATION, Chicago, Ill.
Filed July 11, 1928. Serial No. 269,426. PUBLISHED OCTOBER 2, 1928. Class 38.

250,905. MEN'S, WOMEN'S, AND CHILDREN'S BOOTS, SLIPPERS, AND SHOES MADE OF LEATHER, SILK, SATIN, WOOL, OR FELT. JOHN B. HENRY, New Orleans, La.
Filed July 10, 1928. Serial No. 269,349. PUBLISHED OCTOBER 2, 1928. Class 39.

250,906. LEATHER, FABRIC, AND COMBINED FABRIC AND LEATHER SHOES. THE J. K. ORR SHOE COMPANY, Atlanta, Ga.
Filed July 9, 1928. Serial No. 269,311. PUBLISHED OCTOBER 2, 1928. Class 39.

250,907. BRAKE DRESSING. EZON MANUFACTUAING CO., Racine, Wis.
Filed July 9, 1928. Serial No. 269,282. PUBLISHED SEPTEMBER 25, 1928. Class 4.

250,908. SILVER TABLEWARE, SILVER FLATWARE, AND SILVER HOLLOW WARE. SAKS & CO., New York, N. Y.
Filed July 6, 1928. Serial No. 269,208. PUBLISHED SEPTEMBER 18, 1928. Class 28.

250,909. POLISHING AND CLEANING PREPARATION. NEWNAMEL INC., doing business as Newnamel Manufacturing Co., New Orleans, La.
Filed July 6, 1928. Serial No. 269,199. PUBLISHED OCTOBER 9, 1928. Class 16.

250,910. SHOES OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC, AND RUBBER AND FABRIC FOR MEN, WOMEN, AND CHILDREN. MUNICIPAL SHOE CO., INC., New York, N. Y.
Filed July 6, 1928. Serial No. 269,197. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,911. OLIVE-OIL SOAP AND SHAVING CREAM IN THE NATURE OF SOAP TO BE USED BEFORE SHAVING. PLOMAR PRODUCTS CORP., Pittsburgh, Pa.
Filed June 8, 1928. Serial No. 267,718. PUBLISHED OCTOBER 9, 1928. Class 4.

250,912. HATS AND CAPS OF ALL KINDS FOR MEN, WOMEN, AND CHILDREN. ETCHISON HAT CO., INC., Richmond, Va.
Filed June 6, 1928. Serial No. 267,543. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,913. WHEAT FLOUR, SELF-RISING FLOUR, CORN MEAL, AND POULTRY FEEDS. THE PAGE MILLING CO., Luray, Va.
Filed June 7, 1928. Serial No. 267,821. PUBLISHED OCTOBER 2, 1928. Class 46.

250,914. SUBSTANCES USED AS FOOD OR AS INGREDIENTS OF FOOD—NAMELY, TABLE AND COOKING SYRUPS, FLAVORING ESSENCES, FLAVOURINGS, FLAVORING EXTRACTS FROM FRUIT, BISCUITS, SYNTHETIC TABLE AND COOKING OILS, SYNTHETIC FLAVORINGS, AND PASTRY VARNISH. W. J. BUSH AND COMPANY, LIMITED, London, England.
Filed June 2, 1928. Serial No. 267,350. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,915. MANICURE PREPARATIONS—NAMELY, NAIL POLISH, NAIL PASTE, AND NAIL POWDER, NAIL POLISH IN TABLET FORM, NAIL ENAMEL, AND SOLVENT FOR REMOVING ENAMEL. HOUBIGANT, INC., New York, N. Y.
Filed May 31, 1928. Serial No. 267,256. PUBLISHED OCTOBER 9, 1928. Class 6.

250,916. CANNED FRUITS AND VEGETABLES, PEPPER, ETC. JOHN LIDDLE CO., INC., Glens Falls, N. Y.
Filed May 23, 1928. Serial No. 266,861. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,917. SEALING COMPOUND. WALTER R. THURSTON, doing business as Norm Manufacturing Co., Los Angeles, Calif.
Filed May 22, 1928. Serial No. 266,841. PUBLISHED OCTOBER 2, 1928. Class 5.

250,918. ALUMINUM CLEANSER, SCOURING POWDER, STEEL WOOL, AND SOAP. I. ROKEACH & SONS, INC., Brooklyn, N. Y.
Filed May 18, 1928. Serial No. 266,619. PUBLISHED OCTOBER 9, 1928. Class 4.

250,919. WALL-PAPER CLEANER. THE JANSZEN COMPANY, also doing business as Janszen Grocery Company, Cincinnati, Ohio.
Filed May 18, 1928. Serial No. 266,593. PUBLISHED OCTOBER 2, 1928. Class 4.

250,920. APPLICATORS FOR EYEGLASS CLEANERS. HANFORD CHEMICAL COMPANY, Hanford, Calif.
Filed May 17, 1928. Serial No. 266,535. PUBLISHED OCTOBER 9, 1928. Class 29.

250,921. HAIR-COMBING LIQUID. EDWARD WESLEY & COMPANY, Cincinnati, Ohio.
Filed May 16, 1928. Serial No. 266,501. PUBLISHED OCTOBER 9, 1928. Class 6.

250,922. GLOVES AND MITTENS MADE OF FABRIC AND COMBINATIONS OF LEATHER AND FABRIC. THE BOSS MANUFACTURING COMPANY, Kewanee, Ill., and Brooklyn, N. Y.
Filed May 14, 1928. Serial No. 266,352. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,923. ALUMINUM GLAZE. SAPOLIN CO. INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,577. PUBLISHED OCTOBER 9, 1928. Class 16.

250,924. GOLD GLAZE. SAPOLIN CO. INC., New York, N. Y.
Filed April 28, 1928. Serial No. 265,576. PUBLISHED OCTOBER 9, 1928. Class 16.

250,925. SAFETY REAR-END REFLECTORS FOR MOTOR VEHICLES. HUNT & MOORE, INC., New Haven, Conn.
Filed April 26, 1928. Serial No. 265,435. PUBLISHED OCTOBER 9, 1928. Class 19.

250,926. READY-MIXED PAINTS, LACQUERS, VARNISH, PAINT ENAMEL, AND WATERPROOF PAINTS. PAINT ENGINEERS, INC., Chicago, Ill.
Filed April 25, 1928. Serial No. 265,399. PUBLISHED OCTOBER 9, 1928. Class 16.

250,927. DRESS SHIELDS. THE C. E. CONOVER COMPANY, New York, N. Y.
Filed April 14, 1928. Serial No. 264,810. PUBLISHED OCTOBER 2, 1928. Class 40.

250,928. SEEDS USED AS FOODS—NAMELY, ANISEED, CARRAWAY SEED, MUSTARD SEED, CELERY SEED, CUMMIN SEED; HERBS—NAMELY, THYME AND SAGE. SERVICE GROCER COMPANY, INC., Detroit, Mich.
Filed April 5, 1928. Serial No. 264,388. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,929. GARLIC JUICE, GARLIC FLAVOR, AND ONION FLAVOR. GARONI MFG. CO., Chicago, Ill.
Filed April 9, 1928. Serial No. 264,576. PUBLISHED OCTOBER 2, 1928. Class 46.

250,930. FABRIC AND LEATHER AND FABRIC GLOVES. CARL C. CARR, Lakewood, Cleveland, Ohio.
Filed July 6, 1928. Serial No. 269,182. PUBLISHED SEPTEMBER 25, 1928. Class 39.



250,931. PRINTED BOOKS, SOMETIMES CALLED PAMPHLETS, BOOKLETS, CIRCULARS, LEAFLETS, FOLDERS, SHEETS, ISSUED AT REGULAR AND IRREGULAR INTERVALS, AND OTHER PRINTED ADVERTISING MATTER SOLD TO THE TRADE. JOHN ESTEN BOLLING, doing business as Esten Bolling, East Orange, N. J.
Filed July 6, 1928. Serial No. 269,179. PUBLISHED OCTOBER 2, 1928. Class 38.

250,932. PREPARATION USED IN EXTERMINATING CANADIAN THISTLE, WEEDS, AND DANDELIONS. WILLIAM A. MCINTYRE, Beavercreek, Oreg.
Filed July 5, 1928. Serial No. 269,130. PUBLISHED OCTOBER 2, 1928. Class 6.

250,933. GASOLINE, KEROSENE, LUBRICATING OIL, DIESEL FUEL OIL, LUBRICATING GREASE, FUEL OIL, ENGINE DISTILLATE, MOTOR-LUBRICATING OIL, ROAD OIL. GILMORE OIL COMPANY, Los Angeles, Calif.
Filed July 5, 1928. Serial No. 269,118. PUBLISHED SEPTEMBER 25, 1928. Class 15.

250,934. MALT SYRUP. VAL BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed August 4, 1928. Serial No. 270,617. PUBLISHED OCTOBER 2, 1928. Class 46.

250,935. ROLLER SKATES. A. G. SPALDING & BROS., New York, N. Y.
Filed July 14, 1928. Serial No. 269,611. PUBLISHED OCTOBER 9, 1928. Class 22.

250,936. MEN'S, WOMEN'S, AND CHILDREN'S STRAW, PANAMA, AND FELT HATS. NEW ENGLAND PANAMA HAT CO., INC., New York, N. Y.
Filed August 4, 1928. Serial No. 270,602. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,937. ELECTRIC NECKWEAR PRESSERS. HARB MFG. CO., Philadelphia, Pa.
Filed August 4, 1928. Serial No. 270,590. PUBLISHED SEPTEMBER 25, 1928. Class 21.

250,938. MALT SYRUP. CLARENCE E. ALFELD, doing business as Lakeside Products Company, Chicago, Ill.
Filed August 4, 1928. Serial No. 270,566. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,939. WATCH CRYSTALS. GERMANOW-SIMON MACHINE CO., Rochester, N. Y.
Filed August 3, 1928. Serial No. 270,545. PUBLISHED OCTOBER 9, 1928. Class 33.

250,940. INSECTICIDE AND FUNGICIDE. MOE SPIROL, Middletown, N. Y.
Filed August 2, 1928. Serial No. 270,521. PUBLISHED OCTOBER 9, 1928. Class 6.

250,941. METAL POLISH. E. BLANCHARD, doing business as Golden State Laboratories, Larkspur, Calif.
Filed August 2, 1928. Serial No. 270,459. PUBLISHED OCTOBER 2, 1928. Class 4.

250,942. PICKLELIKE PRODUCT CONSISTING OF CANDIED CUCUMBERS WITH CELERY FLAVOR. GLASER, CRANDELL CO., Chicago, Ill.
Filed August 1, 1928. Serial No. 270,418. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,943. CHILDREN'S HATS. FINE AND LEVI, INC., New York, N. Y.
Filed August 1, 1928. Serial No. 270,416. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,944. BRUSHES. WHITING-ADAMS COMPANY, Boston, Mass.
Filed July 31, 1928. Serial No. 270,405. PUBLISHED OCTOBER 9, 1928. Class 29.

250,945. TOMATO CATSUP. THE H. H. MEYER PACKING COMPANY, Cincinnati, Ohio.
Filed July 31, 1928. Serial No. 270,383. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,946. PEARLS, NECKLACES, BRACELETS, EARRINGS, FINGER RINGS, BROOCHES, BAR PINS, AND ORNAMENTAL HATPINS, AND PINS FOR DRESS ORNAMENTS, ORNAMENTAL PINS AND BUCKLES FOR DECORATING HATS, ORNAMENTAL SHOE BUCKLES, AND HAIR ORNAMENTS, MADE WHOLLY OR IN PART OF OR PLATED WITH PRECIOUS METAL. COHN & ROSENBERGER, INC., New York, N. Y.
Filed July 31, 1928. Serial No. 270,370. PUBLISHED SEPTEMBER 25, 1928. Class 28.

250,947. EVAPORATED MILK. P DUFF & SONS, INC., Pittsburgh, Pa.
Filed July 31, 1928. Serial No. 270,372. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,948. GOLD AND SILVER PLATED NOVELTIES—NAMELY, CIGARETTE BOXES. THE WEIDLICH BROS. M'F'G. CO., Bridgeport, Conn.
Filed July 28, 1928. Serial No. 270,308. PUBLISHED SEPTEMBER 25, 1928. Class 28.

250,949. PAPER BOTTLES FOR DISPENSING MILK, CREAM, ICE CREAM, AND THE LIKE. SEALED CONTAINERS CORPORATION, New York, N. Y.
Filed July 28, 1928. Serial No. 270,305. PUBLISHED OCTOBER 9, 1928. Class 2.

250,950. SHOES OF LEATHER AND OF LEATHER AND FABRIC COMBINATIONS. EMERSON SHOE MANUFACTURING COMPANY, Rockland, Mass.
Filed July 27, 1928. Serial No. 270,241. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,951. MOLASSES. PENICK & FORD, LTD., New York, N. Y.
Filed July 26, 1928. Serial No. 270,199. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,952. BODY DEODORANT. ODOR-NOX CHEMICAL CO., Chicago, Ill.
Filed July 25, 1928. Serial No. 270,142. PUBLISHED OCTOBER 9, 1928. Class 6.

250,953. COMPOUND OF CORN SYRUP, REFINER'S SYRUP, AND GRANULATED SUGAR, AND A COMPOUND OF CORN SYRUP AND WEST INDIA MOLASSES. MANGELS-HEROLD CO., INC., Baltimore, Md.
Filed July 24, 1928. Serial No. 270,086. PUBLISHED OCTOBER 2, 1928. Class 46.

250,954. CELLULOSE-ACETATE, METAL, FABRIC, AND PARCHMENT LAMP SHADES. APT NOVELTY CO., INC., New York, N. Y.
Filed July 24, 1928. Serial No. 270,067. PUBLISHED OCTOBER 9, 1928. Class 34.

250,955. MALT EXTRACT. JAMES J. TREFNY, doing business as Muscle Malt Products, Chicago, Ill.
Filed July 26, 1928. Serial No. 270,062. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,956. BOOTS AND SHOES MADE OF LEATHER AND TEXTILE FABRIC. THE SELBY SHOE CO., Portmouth, Ohio.
Filed July 23, 1928. Serial No. 270,052. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,957. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. HUTH & JAMES SHOE MANUFACTURING COMPANY, Milwaukee, Wis.
Filed July 23, 1928. Serial No. 270,028. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,958. MALT SYRUPS. GREAT WEST SALES CORPORATION, Chicago, Ill.
Filed July 23, 1928. Serial No. 270,025. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,959. BELT DRESSING. TRUST OIL COMPANY, Perth Amboy, N. J.
Filed July 21, 1928. Serial No. 269,998. PUBLISHED OCTOBER 9, 1928. Class 4.

250,960. DEPILATORY. THE ODORONO COMPANY, Cincinnati, Ohio.
Filed July 21, 1928. Serial No. 269,978. PUBLISHED OCTOBER 9, 1928. Class 6.

250,961. DEODORANT POWDER. THE ODORONO COMPANY, Cincinnati, Ohio.
Filed July 21, 1928. Serial No. 269,977. PUBLISHED OCTOBER 9, 1928. Class 6.

250,962. TOAST. HARRY GEORGE CUBBISON, doing business as Cubbison Cracker Co., Los Angeles, Calif.
Filed July 21, 1928. Serial No. 269,947. PUBLISHED OCTOBER 2, 1928. Class 46.

250,963. CLOCKS. IRA J. SHAPIRO, New York, N. Y.
Filed July 20, 1928. Serial No. 269,920. PUBLISHED SEPTEMBER 25, 1928. Class 27.

250,964. MALT SYRUP. JOANNES BROTHERS COMPANY, Green Bay, Wis.
Filed July 20, 1928. Serial No. 269,900. PUBLISHED OCTOBER 2, 1928. Class 46.

250,965. FOOD FOR HOGS. UNIVERSAL MILLS, Fort Worth, Tex.
Filed July 19, 1928. Serial No. 269,875. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,966. LIQUID TONIC FOR PRESERVING AND BEAUTIFYING THE HAIR. LANMAN & KEMP, INC., New York, N. Y.
Filed July 19, 1928. Serial No. 269,848. PUBLISHED OCTOBER 9, 1928. Class 6.

250,967. COMBINATION OF REFINER'S SYRUP. TEA GARDEN PRODUCTS CO., also doing business as Pacific Coast Syrup Co., San Francisco, Calif.
Filed July 18, 1928. Serial No. 269,812. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,968. MOLASSES. TEA GARDEN PRODUCTS CO., San Francisco, Calif.
Filed July 18, 1928. Serial No. 269,808. PUBLISHED OCTOBER 2, 1928. Class 46.

250,969. METAL POLISH AND TOP DRESSING. CHRIS W. LEE, doing business as Great Stuff Products Company, Minneapolis, Minn.
Filed Aug. 7, 1928. Serial No. 270,709. PUBLISHED SEPTEMBER 25, 1928. Class 4.

250,970. PAINTS, DRY OR PASTE. GENERAL RUB-ROS COMPANY, Hialeah, Fla.
Filed August 7, 1928. Serial No. 270,701. PUBLISHED OCTOBER 9, 1928. Class 16.

250,971. SALAD DRESSINGS. EM-IT-PRODUCTS COMPANY, Snyder, Tex.
Filed August 7, 1928. Serial No. 270,696. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,972. MEDICINE FOR HUMAN USE FOR THE TREATMENT OF INDIGESTION, DYSPEPSIA, FLATULENCE, HEARTBURN, ACIDITY, WIND, AND ALL STOMACH TROUBLES. ROBERT CONN, Dunedin, New Zealand.
Filed August 6, 1928. Serial No. 270,668. PUBLISHED OCTOBER 9, 1928. Class 6.

250,973. MEN'S, WOMEN'S, AND CHILDREN'S SHOES CONSTRUCTED OF LEATHER. BADAGLIACCA INC., Paterson, N. J.
Filed August 6, 1928. Serial No. 270,662. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,974. LUBRICATING OILS, WAXES, AND GREASES. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed June 26, 1928. Serial No. 268,713. PUBLISHED SEPTEMBER 25, 1928. Class 15.

250,975. GLOVES CONSTRUCTED OF LEATHER, RUBBER, OR OF FABRIC OR OF COMBINATIONS OF THESE MATERIALS. ARCH L. COOK, doing business as Great Northern Glove Company, Bluffton, Ind.
Filed June 26, 1928. Serial No. 268,681. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,976. COD-LIVER OIL FOR MIXING WITH CHICKEN AND CATTLE FEED. THE MARTIN DENNIS COMPANY, Newark, N. J.
Filed June 25, 1928. Serial No. 268,619. PUBLISHED OCTOBER 9, 1928. Class 6.

250,977. CERTAIN NAMED WEARING APPAREL. STERN BROTHERS, New York, N. Y.
Filed June 23, 1928. Serial No. 268,568. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,978. CERTAIN NAMED WEARING APPAREL. STERN BROTHERS, New York, N. Y.
Filed June 23, 1928. Serial No. 268,567. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,979. BOOTS AND SHOES OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. M. A. PACKARD COMPANY, Brockton, Mass.
Filed June 23, 1928. Serial No. 268,558. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,980. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. EBEN F. MARTIN, Lynn, Mass.
Filed June 23, 1928. Serial No. 268,553. PUBLISHED SEPTEMBER 25, 1928. Class 39.

250,981. HATBOXES. WHITE LUGGAGE CO., INC., New York, N. Y.
Filed June 22, 1928. Serial No. 268,524. PUBLISHED SEPTEMBER 25, 1928. Class 3.

250,982. SOAPS, SOAP CONTAINING DETERGENTS, AND SOAP CONTAINING GREASE-SOLVENT COMPOSITIONS, ALL IN LIQUID FORM, FOR GENERAL CLEANSING AND SCOURING PURPOSES. AIX-OLEIN CO., INC., Brooklyn, N. Y.
Filed June 22, 1928. Serial No. 268,477. PUBLISHED OCTOBER 9, 1928. Class 4.

250,983. HERB-ROOT COMPOSITION TO BE USED AS A PREPARATION FOR DISEASES OF THE KIDNEY AND BLADDER, GRAVEL, BACKACHE, AND CERTAIN RHEUMATIC AFFECTIONS. COLLINS MEDICINE COMPANY, Collins, Miss.
Filed June 21, 1928. Serial No. 268,426. PUBLISHED OCTOBER 9, 1928. Class 6.

250,984. PERIODICAL. THE AMERICAN EAGLE PUBLISHING CO., INC., Baltimore, Md., and New York, N. Y.
Filed June 19, 1928. Serial No. 268,263. PUBLISHED OCTOBER 9, 1928. Class 38.

250,985. DEODORANT POWDER. CHARLES AGUIRRE, New York, N. Y.
Filed June 19, 1928. Serial No. 268,259. PUBLISHED SEPTEMBER 11, 1928. Class 6.

250,986. CAPS FOR MEN AND BOYS. MORRIS DORF, doing business at Dorf & Company, Baltimore, Md.
Filed June 18, 1928. Serial No. 268,216. PUBLISHED SEPTEMBER 18, 1928. Class 39.

250,987. MALT EXTRACT. PATRICK CAIRNS, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa.
Filed June 18, 1928. Serial No. 268,207. PUBLISHED SEPTEMBER 25, 1928. Class 46.

250,988. WASHING COMPOUNDS—NAMELY, SOAP POWDER. H. KOHNSTAMM & CO., INC., New York, N. Y.
Filed June 16, 1928. Serial No. 268,162. PUBLISHED OCTOBER 2, 1928. Class 4.



250,989. WATCHES. THE GRUEN WATCH COMPANY, Time Hill, Cincinnati, Ohio.
Filed June 15, 1928. Serial No. 268,095. PUBLISHED SEPTEMBER 25, 1928. Class 27.

250,990. CERTAIN NAMED WEARING APPAREL. AMERICAN LADY CORSET CO., Detroit, Mich.
Filed June 14, 1928. Serial No. 268,017. PUBLISHED OCTOBER 2, 1928. Class 39.

250,991. SHAVING-SOAP CREAM. THE WILLIAM A. WEBSTER COMPANY, Memphis, Tenn.
Filed June 13, 1928. Serial No. 268,011. PUBLISHED OCTOBER 2, 1928. Class 4.

250,992. SALTED NUTS AND NUTS IN THEIR NATURAL STATE, BOTH SHELLED AND UNSHELLED; HONEY, DRIED FRUITS. L. TORN, Los Angeles, Calif.
Filed June 13, 1928. Serial No. 268,006. PUBLISHED SEPTEMBER 25, 1928. Class 46.

## [ACT OF MARCH 19, 1920, SEC. 1 (b)].

## THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

250,993. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) THOMAS A. WATSON, Philipsburg, Pa. Filed Oct. 20, 1928. Serial No. 274,485.

WATSON

For Gun Sights.
Claims use since 1896.

250,994. (CLASS 39. CLOTHING.) LOUIS ROSENSTOCK, doing business as Ulster Manufacturing Co., Ellenville, N. Y. Filed Oct. 18, 1928. Serial No. 273,983.

ULSTER

For Men's Trousers, Knickers, Breeches, Dress Shirts, Work Shirts, and Negligee Shirts, Leather Sport Garments Such as Coats Made of Sheepskin, of Horsehide, and Cowhide; and Leather Lumberjacks with Knit or Leather Collars, as Well as Leather Coats Fur Lined; Women's Knickers, Gymnasium Bloomers, Middies, and Blouses; for Children's Creepers, Panty Dresses, and Blouses.
Claims use since January, 1924.

250,995. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) W. F. HIRSCHMAN CO., INC., Leroy and Buffalo, N. Y. Filed Oct. 18, 1928. Serial No. 273,967.

WIND-ELECTRIC

For Wind-Actuated Roof Ventilators.
Claims use since about Dec. 1, 1925.

250,996. (CLASS 39. CLOTHING.) ADVANCE CLOAK COMPANY, Milwaukee, Wis. Filed Sept. 8, 1928. Serial No. 272,071.

Rosenbergs

For Ladies' Fur Coats, Cloth Coats, Dresses, and Hats.
Claims use since Sept. 1, 1902.

250,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEMING & GOULD CO., Chicago, Ill., and South Bellingham, Wash. Filed June 7, 1928. Serial No. 267,642.

Fairhaven

For Canned Salmon.
Claims use since July 19, 1924.

250,998. (CLASS 2. RECEPTACLES.) CARL D. KELLEY, Wichita, Kans. Filed Mar. 10, 1928. Serial No. 262,911.

KEEPRIGHT CONTAINER

For Portable Containers of Paper and Metal for Holding Hot or Cold Preparations and Prolonging Their Temperatures.
Claims use since Sept. 15, 1927.

250,999. (CLASS 39. CLOTHING.) JOSHUA HOYLE & SONS, LTD. INC., New York, N. Y. Filed Jan. 10, 1928. Serial No. 259,916.

PETER TODD

For Wearing Apparel—Namely, Dress and Negligee Shirts for Men, Youths, and Boys; Pajamas, Beach Robes, Negligees; Knitted and Textile Underwear for Men, Women, and Children; Coolie Coats, and Kimonos.
Claims use since January, 1927.

251,000. (CLASS 15. OILS AND GREASES.) PENNSYLVANIA PETROLEUM PRODUCTS CO., Philadelphia, Pa. Filed Nov. 9, 1927. Serial No. 257,308.

QUAKER CITY

MOTOROIL

For Oils and Lubricants, Particularly for Motor-Lubricating Oils, Illuminating Oils, and Motor-Fuel Oils.
Claims use since 1920.

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251,001. (CLASS 2. RECEPTACLES.) ESTELLA MORTON BOYER, New York, N. Y. Filed Nov. 5, 1927. Serial No. 257,093.

SHOE-IN

For Bags or Wrappers for Shoes and the Like.
Claims use since Oct. 24, 1927.

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251,002. (CLASS 39. CLOTHING.) SYNDICATE TRADING COMPANY, New York, N. Y. Filed Oct. 28, 1927. Serial No. 256,750.

Edith Dale

For Coats and Dresses for Women, Misses, and Juniors.
Claims use since Oct. 14, 1927.

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251,003. (CLASS 39. CLOTHING.) FRANKLIN SIMON & CO. INC., New York, N. Y. Filed July 28, 1927. Serial No. 252,644.

Wendell

For Women's, Girls', and Misses' Furnishings, Undergarments, and Clothing—Namely, Dresses, Corsets, Tailored Suits, Walking Suits, Sports Suits, Golf Suits, Riding Suits, Outer Skirts, Scarfs, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of a Vest and Drawers, Bath Robes, Shirt Waists, Gloves, Bathing Suits, Swimming Suits, Dressing Gowns, Sweaters, Mufflers, Hosiery, Raincoats, Rain Capes, Sports Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Bathing Capes, Bathing Hats, Brassières, Step-Ins, Bloomers, Pajamas, Costume Slips, Outer and Under Shirts, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses Made of Textile Material, Ostrich Boas Made Out of Feathers, and Dresses, Corsets, Tailored Suits, Walking Suits, Sports Suits, Golf Suits, Riding Suits, Outer Skirts, Outer and Under Shirts, Nightgowns, Petticoats, Bodices, Chemises, Drawers, Combinations Consisting of a Vest and Drawers, Bath Robes, Shirt Waists, Bathing Suits, Swimming Suits, Bathing Capes, Bathing Hats, Dressing Gowns, Sweaters, Mufflers, Hosiery, Sports Coats, Blazer Coats, Hats, Caps, Capes, Coats, Blouses, Jumpers, Knickerbockers, Kimonos, Lounging Robes, Brassières, Step-Ins, Bloomers, Pajamas, Costume Slips, Shawls, Collars, Cuffs, Belts for Outside Wear, Riding Habits, Riding Breeches, Smocks, Middy Blouses, Scarfs, and Gloves Made Out of Knitted Material.
Claims use since June 12, 1927.

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251,004. (CLASS 39. CLOTHING.) ALBERT ROSENZWEIG, Akron, Ohio. Filed Dec. 14, 1925. Serial No. 224,675.

CARLTON'S

For Men's Suits and Overcoats.
Claims use since Dec. 15, 1921.

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251,005. (CLASS 39. CLOTHING.) H. CHILDS & CO. INC., Pittsburgh, Pa. Filed Sept. 19, 1928. Serial No. 272,641.

Dr. Bixler

For Shoes Made of Leather, Rubber, Fabric, or Combinations Thereof.
Claims use since April, 1927.



251,006. (CLASS 39. CLOTHING.) THE H. W. GOSSARD CO., Chicago, Ill., now, by change of name, Associated Apparel Industries, Inc. Filed July 26, 1928. Serial No. 270,182.

Gossard

For Corsets, Corset Combinations (One-Piece Garments), Corset Step-Ins (No Front or Side Openings), Garter Belts, Brassières, and Underwear of Cotton and Silk Textile Fabric for Women and Children.
Claims use since 1908.

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251,007. (CLASS 39. CLOTHING.) THE H. W. GOSSARD CO., Chicago, Ill., now, by change of name, Associated Apparel Industries, Inc. Filed July 12, 1928. Serial No. 269,458.

Artistique

For Corsets, Corset Combinations (One-Piece Garments), Corset Step-Ins (No Front or Side Openings), Garter Belts, Brassières, and Underwear of Cotton and Silk Textile Fabric for Women and Children.
Claims use since Feb. 1, 1921.

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251,008. (CLASS 39. CLOTHING.) THE H. W. GOSSARD CO., Chicago, Ill., now, by change of name, Associated Apparel Industries, Inc. Filed July 12, 1928. Serial No. 269,456.

Jane Jackson

For Corsets, Corset Combinations (One-Piece Garments), Corset Step-Ins (no Front or Side Openings), Garter Belts, Brassières, and Underwear of Cotton and Silk Textile Fabric for Women and Children.
Claims use since Aug. 24, 1920.

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251,009. (CLASS 39. CLOTHING.) BLAIR CORSET CO. INC., Chicago, Ill. Filed June 20, 1928. Serial No. 268,347.

"VERILITE"

For Corsets, Front and Side Closing Girdles, Brassière and Corset Combinations, Lingerie Girdles, Brassières and Bandeaux, Circular Front and Side Closing Garter Belts, Girdle Step-Ins; Women's Underwear of Knitted, Textile, Silk, and Cotton Fabric; and Lingerie Consisting of Women's Combinations, Which is a Garment That Covers the Upper Part of the Body Combined With a Garment That Covers the Lower Part of the Body, All in One Unit; Step-Ins, Nightgowns, Bloomers, Teddies Made of Silk, Silk and Cotton, Voiles, Crepes, and Other Sheer Fabrics.
Claims use since July, 1927.



251,010. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAWAIIAN PINEAPPLE COMPANY, LTD., San Francisco, Calif., and Iwilei, Territory of Hawaii. Filed May 25, 1928. Serial No. 266,991.

DOLE

For Canned Pineapple.
Claims use since June, 1927.

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251,011. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928. Serial No. 266,670.

GRIP-TIGHTS

For Hairpins (Said Hairpins Being More Particularly Described as Composed and Made of Steel, Aluminite, and Various Other Metals, Alloys, and Materials, but Said Hairpins Are Not Made of, Plated With, or Ornamented With Precious Metals).
Claims use since June 28, 1927.

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251,012. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928. Serial No. 266,664.

HOLD-BOB

For Hairpins (Said Hairpins Being More Particularly Described as Composed and Made of Steel, Aluminite, and Various Other Metals, Alloys, and Materials, but Said Hairpins Are Not Made of, Plated With, or Ornamented With Precious Metals).
Claims use since July 11, 1927.

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251,013. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE HUMP HAIRPIN MFG. CO., Chicago, Ill. Filed May 19, 1928. Serial No. 266,668.

BOB-GRIPS

For Hairpins (Said Hairpins Being More Particularly Described as Composed and Made of Steel, Aluminite, and Various Other Metals, Alloys, and Materials, but Said Hairpins are not Made of, Plated With, or Ornamented with Precious Metals).
Claims use since June 24, 1927.

251,014. (CLASS 39. CLOTHING.) A. GARSIDE & SONS, Long Island City, N. Y. Filed Dec. 15, 1027. Serial No. 258,942.

ARCH-LIFT

For Leather Boots and Shoes for Women.
Claims use since July 1, 1927.

251,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. CLEMENS HORST COMPANY, San Francisco, Calif. Filed Nov. 17, 1927. Serial No. 257,077.

HOMEPACK

For Canned Fruits, Canned Vegetables.
Claims use since Aug. 17, 1927.

251,016. (CLASS 39. CLOTHING.) OPPENHEIM, COLLINS & Co. INC., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J., and Philadelphia, Pa. Filed Nov. 8, 1927. Serial No. 257,248.

ARCH RETAINER

For Women's, Misses', and Children's Shoes of Leather or of Fabric or of Leather and Fabric.
Claims use since Sept. 30, 1927.

251,017. (CLASS 39. CLOTHING.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Sept. 28, 1927. Serial No. 255,340.

GOODWEAR

For Soles and Heels for Boots and Shoes Composed Wholly or in Part of Rubber.
Claims use since Sept. 22, 1927.

251,018. (CLASS 39. CLOTHING.) W. H. TOMLINSON & Co., Bay City, Mich. Filed Sept. 26, 1927. Serial No. 255,281.

ARCH WELTS

For Boots, Shoes, and Slippers Made of Leather, Rubber, and Fabrics.
Claims use since Mar. 1, 1927.

251,019. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Sept. 1, 1927. Serial No. 254,239.

NORMA GAY

For Women's, Misses', and Children's Dresses.
Claims use since Feb. 15, 1927.

251,020. (CLASS 39. CLOTHING.) EDWARD J. KOENIG COMPANY, Chicago, Ill. Filed Aug. 10, 1927. Serial No. 253,279.

KOENIG Liturgical Art

For Liturgical Articles—Namely, Vestments.
Claims use since Mar. 4, 1924.

251,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA COMMERCIAL CO., San Francisco, Calif. Filed July 30, 1927. Serial No. 252,759.

WINE-PACK

For Canned Fruits, Fruit Cocktails, Fruit Salads, Fruit and Nut Salads, Fruit Juices for Food-Flavoring Purposes, Jams, and Jellies.
Claims use since July 27, 1927.

251,022. (CLASS 39. CLOTHING.) STERN BROTHERS, New York, N. Y. Filed July 25, 1927. Serial No. 252,529.

STERN-BILT

For Men's and Boys' Shoes Made of Leather.
Claims use since June 16, 1927.

# TRADE-MARK REGISTRATIONS RENEWED

32,739. CIGARS. Registered April 18, 1899. S. S. PIERCE Co., Boston, Mass., a Corporation of Massachusetts. Renewed April 18, 1929.

32,742. CONDENSED MILK. Registered April 18, 1899. THE FIRM OF HENRI NESTLÉ, London, England; Christiania, Norway; and Vevey, Switzerland. Renewed April 18, 1929, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

53,587. CARBONATED WATER. Registered June 5, 1906. FERDINAND W. BECKER, Philadelphia, Pa. Renewed June 5, 1926, to Peter Eidenberg, doing business as Kosmos Mineral Water Company, Narberth and Philadelphia, Pa., assignee.

69,468. A CARBONATED NONALCOHOLIC BEVERAGE. Registered June 16, 1908. HOLLIS H. MORSE, Atlanta, Ga. Renewed June 16, 1928, to Orange Smile Syrup Company, St. Louis, Mo., a Corporation of Missouri, assignee by mesne assignments.

71,026. SOAP AND SOAP POWDER. Registered October 27, 1908. LEVER BROTHERS COMPANY, Portland, Me., and Cambridge, Mass. Renewed October 27, 1928, to Lever Brothers Company, Cambridge, Mass., a Corporation of Maine.

71,050. CERTAIN RUBBER TOYS. Registered October 27, 1908. HANNOVERSCHE GUMMI-KAMM-COMPAGNIE ACTIEN-GESELLSCHAFT, Hanover-Limmer, Germany. Renewed October 27, 1928, to Hanover Rubber Co. "Excelsior" Inc., New York, N. Y., a Corporation of New York, assignee.

71,162. SPICES AND FLAVORING EXTRACTS. Registered November 3, 1908. G. H. BALLOU COMPANY. Renewed November 3, 1928, to San Diego Coffee Company, San Diego, Calif., a Corporation of California, successor.

71,941. SMOKING TOBACCO. Registered December 22, 1908. GODFREY S. MAHN. Renewed December 22, 1928, to The Barkmahn Co. Inc., New York, N. Y., a Corporation of New York, assignee.

72,392. THREAD, FLOSS, AND ROPE FOR ORNAMENTAL PURPOSES. Registered January 19, 1909. BERNHARD ULMANN & Co. Renewed January 19, 1929, to Bernhard Ulmann Co. Inc., New York, N. Y., a Corporation of New York, assignee.

72,762. CARPET SWEEPERS. Registered February 16, 1909. BISSELL CARPET SWEEPER CO. Renewed February 16, 1929, to Bissell Carpet Sweeper Co., Grand Rapids, Mich., a Corporation of Michigan, assignee.

73,144. HUMIDIFIERS. Registered March 16, 1909. ALBERT W. THOMPSON, Manchester, N. H., and Fitchburg, Mass. Renewed March 16, 1929, to Parks-Cramer Company, Boston, Mass., a Corporation of Massachusetts, assignee by mesne assignments.

73,421. CARPET SWEEPERS. Registered April 20, 1909. BISSELL CARPET SWEEPER CO. Renewed April 20, 1929, to Bissell Carpet Sweeper Company, Grand Rapids, Mich., a Corporation of Michigan, assignee.

73,431. STOVES, RANGES, AND FURNACES. Registered April 20, 1909. THE WHITE-WARNER CO., Taunton, Mass., a Corporation of Massachusetts. Renewed April 20, 1929.

73,446. CANNED VEGETABLES, FRUITS, BERRIES, BAKED BEANS, AND CLAMS. Registered April 20, 1909. THE HOLBROOK GROCERY COMPANY, Keene, Woodsville, and Nashua, N. H., a Corporation of New Hampshire. Renewed April 20, 1929.

73,511. CARBON PAPER. Registered April 27, 1909. DE-FI MANUFACTURING COMPANY, New York, N. Y., a Corporation of New York. Renewed April 27, 1929.

73,561. WRITING PAPER. Registered April 27, 1909. ESLEECK MANUFACTURING CO., Turners Falls, Mass., a Corporation of Massachusetts. Renewed April 27, 1929.

73,601. GUITARS AND MANDOLINS. Registered May 4, 1909. THE RUDOLPH WURLITZER COMPANY, Cincinnati, Ohio, a Corporation of Ohio. Renewed May 4, 1929.

# LABELS

## REGISTERED DECEMBER 18, 1928.

35,091.—*Title:* CHUCKLES CIRCUS-BOX. For Candy. FRED W. AMEND Co., Chicago, Ill. Published October 22, 1928.

35,092.—*Title:* AUNT NELLIE'S. For Canned Peas. AUNT NELLIE'S FARM KITCHEN, INC., Hartford, Wis. Published October 1, 1928.

35,093.—*Title:* BANDSCO. For Fresh Sweet Potatoes. BARNETT & SIBILLE CO., Sunset, La. Published October 26, 1928.

35,094.—*Title:* BEECH-NUT SPEARMINT CANDY COATED GUM-BEECHIES. For Candy-Coated Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published September 27, 1927.

35,095.—*Title:* BEECH-NUT FRUIT FLAVORED CANDY COATED GUM-BEECHIES. For Candy-Coated Chewing Gum. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published July 19, 1928.

35,096.—*Title:* MONTE CARLO SANDAL. For Footwear. BLEECKER SHOE CO., INC., New York, N. Y. Published August 24, 1928.

35,097.—*Title:* DR. MILES HEALTH SHOE. For Footwear. BLEECKER SHOE CO., INC., New York, N. Y. Published August 24, 1928.

35,098.—*Title:* THE GLOBE SCREEN DOOR CHECK & CLOSER. For Doorchecks. BRIGHT AUTOMATIC MACHINE CO., INC., New York, N. Y. Published June 14, 1928.

35,099.—*Title:* PENLO. For Cigars. THE CORAZA CIGAR COMPANY, Philadelphia, Pa. Published October 8, 1928.

35,100.—*Title:* FRISCH PROCESS. For Bread. EMILE FRISCH, Chicago, Ill. Published October 26, 1928.

35,101.—*Title:* COUNTESS CAKE. For Dark Fruit Cake. GENERAL BAKING COMPANY, New York, N. Y. Published September 15, 1928.

35,102.—*Title:* SHREDDED SWEET BISCUIT. For Candy. GILLIAM CANDY COMPANY, Paducah, Ky. Published April 6, 1928.

35,103.—*Title:* THE INVISIBLE ADJUSTABLE. For Caps for Men, Boys, and Children. GREENSTEIN & JOSEPHSON, New York, N. Y. Published July 20, 1928.

35,104.—*Title:* GERMAN CAKES (MADE FROM TESTED COOK BOOK RECIPES) COOKIES EVERY BITE A DELIGHT. For Fruit Cake. GRENNAN BAKERIES, INC., Chicago, Ill. Published July 20, 1928.

35,105.—*Title:* CHEWEE. For Candy. THE JOHN D. HAMILTON COMPANY, Tacoma, Wash. Published October 1, 1923.

35,106.—*Title:* JUMBO TWINS. For Bread. JOHNSON'S BAKERY, INC., Deridder, La. Published October 19, 1928.

35,107.—*Title:* KATSAFANA'S HOTEL SPECIAL. For Coffee. KATSAFANAS COFFEE COMPANY, Northside, Pittsburgh, Pa. Published September 1, 1928.

35,108.—*Title:* COLORED TWIST ENDS HOME MADE CREAM PE-NU-CHE. For Chocolate-Covered Cream Pe-Nu-Che Candy. EDWARD F. KEMP, Somerville and Boston, Mass. Published June 29, 1928.

35,109.—*Title:* COLORED TWIST ENDS HOME MADE CREAM CHECKERBERRY. For Chocolate-Covered Cream Checkerberry Candy. EDWARD F. KEMP, Somerville and Boston, Mass. Published May 17, 1928.

35,110.—*Title:* COLORED TWIST ENDS HOME MADE CREAM PEPPERMINT. For Chocolate-Covered Cream Peppermint Candy. EDWARD F. KEMP, Somerville and Boston, Mass. Published May 17, 1928.

35,111.—*Title:* KEYSPRAY. For Insecticide. KEYSTONE CHEMICAL CO., INC., Cleveland, Ohio. Published July 25, 1928.

35,112.—*Title:* A SAFE LADDER. For Ladders. THE LADDER MANUFACTURERS ASSOCIATION OF AMERICA, Chicago, Ill. Published February 1, 1928.

35,113.—*Title:* RADIO BREAD. For Bread. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Becker Baking Company, East St. Louis, Ill. Published August 6, 1928.

35,114.—*Title:* TUSCARAWAS. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Sumner Creamery Company, Canton, Ohio. Published September 15, 1928.

35,115.—*Title:* ORIOLE. For Butter. MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Miller and Holmes, St. Paul, Minn. Published September 15, 1928.

35,116.—*Title:* COMO BUTTER. For Butter. MILLER & HOLMES, St. Paul, Minn. Published October 1, 1928.

35,117.—*Title:* THE MORNANITE DENTAL CREAMS. For Dental Creams. MORNANITE LABORATORIES, INC., New York, N. Y. Published September 15, 1928.

35,118.—*Title:* THE LONG EXPECTED COFFEE. For Coffee. P. PASCAL INC., New York, N. Y. Published November 1, 1928.

35,119.—*Title:* PYRRO. For Home Treatment for Pyorrhea, Sore, Bleeding, Receding, Swollen, Spongy Gums, and Bad Breath. MARSHALL AGASSIZ PAYNE, D. D. S., Wabash, Ind. Published September 28, 1928.

35,120.—*Title:* SKEET LOADS. For Ammunition. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn., and Ilion, and New York, N. Y. Published November 5, 1928.

35,121.—*Title:* RUM REFILL FOR THE RUMIDOR. For a Smoker's Article for Flavoring and Moistening Cigars. THE RUMIDOR CORPORATION, Union City, N. J. Published August 12, 1928.

35,122.—*Title:* LA MARGÉ CUCUMBER-ALMOND CREME. For Cold Cream. MARGARET WEBER, Los Angeles, Calif. Published June 16, 1928.

35,123.—*Title:* WESTERN WELD SPECIAL CEMENT. For Special Nonfreezing Cement for Cementing Tire Patches. WESTERN STATES MFG. CO., Sioux City, Iowa. Published September 19, 1928.

# PRINTS

## REGISTERED DECEMBER 18, 1928.

11,381.—*Title:* BETTER GROCERS INCORP. For Groceries. ARMSTRONG GROCERY COMPANY, Sharon, Pa. Published April 23, 1928.

11,382.—*Title:* VERMONT TEACHERS FIND THIS INGENIOUS MATERIAL GRIPS CHILDREN'S ATTENTION. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published November 1, 1928.

11,383.—*Title:* C. E. LEWIS. For Spark Plugs. DEFIANCE SPARK PLUGS, INC., Toledo, Ohio. Published March 1, 1928.

11,384.—*Title:* DRINK PEP, A BEVERAGE. For Beverage. JOSEPH P. DEVIR, Philadelphia, Pa. Published July 17, 1928.

11,385.—*Title:* WIN A BRAND NEW FORD SEDAN. For Perfume. SAMUEL M. FREID, doing business as Bell Perfume Co., Chicago, Ill. Published August 26, 1928.

11,386.—*Title:* FOR REAL BUCKWHEAT PANCAKES. For Buckwheat Flour. HECKER H-O CO. INC., Buffalo, N. Y. Published September 17, 1928.

11,387.—*Title:* WAFFLES AND PANCAKES. For Old Homestead Pancake Flour. HECKER H-O CO. INC., Buffalo, N. Y. Published Sept. 17, 1928.

11,388.—*Title:* YOU CAN'T BUY A CAKE LIKE THIS. For New Presto Improved Cake Flour. HECKER H-O CO. INC., Buffalo, N. Y. Published September 24, 1928.

11,389.—*Title:* HEARTS OF SELECTED WHEAT. For Cream Farina. HECKER H-O CO. INC., Buffalo, N. Y. Published September 27, 1928.

11,390.—*Title:* FOR REAL OLD FASHIONED BUCKWHEATS. For Buckwheat Flour. HECKER H-O CO. INC., Buffalo, N. Y. Published September 17, 1928.

11,391.—*Title:* NEW PRESTO. For New Presto Improved Cake Flour. HECKER H-O CO. INC., Buffalo, N. Y. Published September 24, 1928.

11,392.—*Title:* THE NEW KIND OF OATMEAL. For New Style H-O (Quick-Cooking Oats). HECKER H-O CO. INC., Buffalo, N. Y. Published September 24, 1928.

11,393.—*Title:* CHEZ FRANCOIS. For Crystallized Fruits and Candies. AUGUSTE FRANCOIS JACQUEMOUX, Miami, Fla. Published October 1, 1928.

11,394.—*Title:* UNITED FOOD STORES. For Groceries and Provisions. NATIONAL MERCHANDISING SERVICE CO., Cleveland, Ohio. Published September 1, 1928.

11,395.—*Title:* HARVA-BORBED HAIR COMBS. For Combs. JULIUS SCHMID, INC., New York, N. Y. Published September 6, 1928.

11,396.—*Title:* HARVA WOMEN'S DRESSING COMBS. For Combs. JULIUS SCHMID, INC., New York N. Y. Published September 6, 1928.

11,397.—*Title:* ONE CENT SCARF. For Dresses Scarfs. HENRY L. SCHOLL, Watertown, Wis. Published October 1, 1928.

11,398.—*Title:* ONE CENT VANITY SET OR SCARF. For Pillowcases, Scarfs, and Vanity Sets. HENRY L. SCHOLL, Watertown, Wis. Published October 1, 1928.

11,399.—*Title:* ONE CENT VANITY SET OR SCARF. For Pillowcases, Scarfs, and Vanity Sets. HENRY L. SCHOLL, Watertown, Wis. Published October 1, 1928.

11,400.—*Title:* ONE CENT VANITY SET OR SCARF. For Pillowcases, Scarfs, and Vanity Sets. HENRY L. SCHOLL, Watertown, Wis. Published October 1, 1928.

11,401.—*Title:* ONE CENT LUNCHEON SET. For Luncheon Sets. HENRY L. SCHOLL, Watertown, Wis. Published October 1, 1928.

# REISSUES

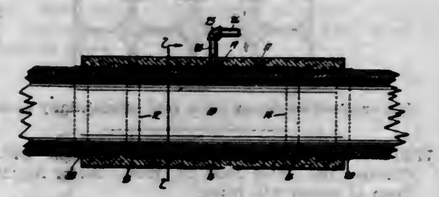
## DECEMBER 18, 1928.

17,165. OIL GUN. CHARLES S. BURTON, Oak Park, Ill., assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed May 2, 1928. Serial No. 274,604. Original No. 1,582,960, dated May 4, 1926, Serial No. 619,571, filed Jan. 4, 1923. 3 Claims. (Cl. 221—47.4.)



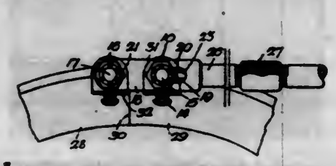
1. A lubricant injector comprising a lubricant-holding barrel having a head at one end and at its discharge end a reduced portion of relatively small cross-section, a plunger extending axially through the barrel emerging through the head thereof for manual operation and at the inner end adapted to be thrust into the reduced portion fitting the same pistonwise for ejecting the lubricant, a discharge nozzle at the end of the reduced portion and an inwardly seating check valve in said nozzle adapted to open under the discharge pressure; the plunger having an axial bore and a port opening therefrom into the barrel back of the reduced terminal portion thereof when the plunger is at in-thrust position, and a valve in the axial bore seating in a direction opposite to the in-thrust lubricant-discharging movement of the plunger.

17,166. PROCESS FOR REPAIRING PIPES. THOMAS DE LA MARE, Salt Lake City, Utah. Filed May 21, 1928. Serial No. 279,581. Original No. 1,587,701, dated June 8, 1926, Serial No. 719,444, filed June 11, 1924. 5 Claims. (Cl. 137—99.)



1. The process for repairing containers confining liquid while in service, comprising forming a blister over the part to be repaired, forming a plastic body to enclose said blister, and draining said blister during the period of time required for said plastic body to set.

17,167. RIM-CONTRACTING DEVICE. WALTER HENRY WELCH, Bristol, England. Filed May 26, 1925. Serial No. 33,061. Original No. 1,533,073, dated Apr. 7, 1925, Serial No. 646,633, filed June 20, 1923. 5 Claims. (Cl. 157—1.)

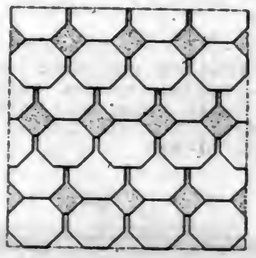


1. In a rim tool, the combination of a pair of gripping devices adapted to be secured on one edge of a rim and to extend away laterally therefrom, a pin extending laterally from each of said gripping devices, a link having rotative engagement with one of said pins and having a slot for the reception of the other of said pins, a compressing spring normally maintaining said pin at that end of the slot nearest the other of said pins, and means for swinging said link angularly about said pins.

# DESIGNS

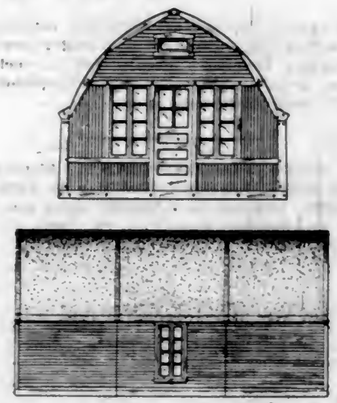
## DECEMBER 18, 1928.

77,213. ROOF. HERBERT ABRAHAM, New York, N. Y., assignor to The Ruberoid Company, a Corporation of New Jersey. Filed Oct. 1, 1921. Serial No. 504,775. Term of patent 14 years.



The ornamental design for a roof substantially as shown.

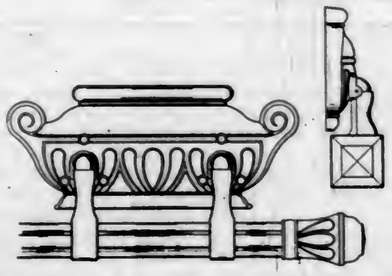
77,214. PORTABLE COTTAGE. THEODOR AHLBORN, Chicago, Ill. Filed June 28, 1926. Serial No. 18,199. Term of patent 3½ years.



The ornamental design for a portable cottage, as shown.

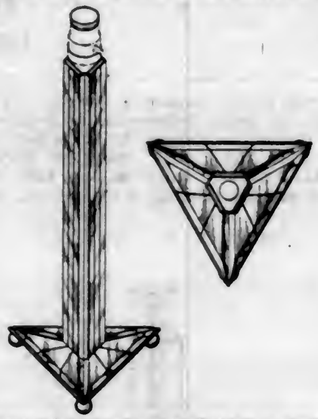
77,215. [WITHDRAWN.]

77,216. BURIAL-CASKET HANDLE. CHARLES BLESCH, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,424. Term of patent 14 years.



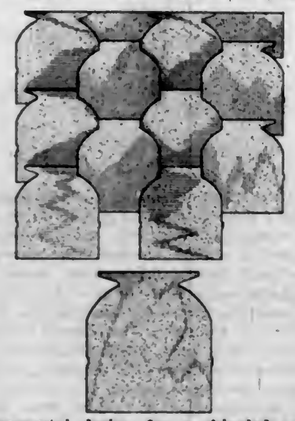
The ornamental design for a burial casket handle, substantially as shown and described.

77,217. CANDLESTICK OR SIMILAR ARTICLE. MARGUERITE A. BUCHWALTER, New York, N. Y. Filed Oct. 15, 1928. Serial No. 28,487. Term of patent 7 years.



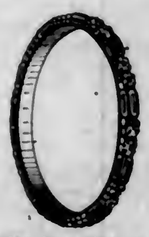
The ornamental design for a candlestick or similar article substantially as shown.

77,218. SHINGLED ROOF. ARTHUR J. CARON, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Oct. 21, 1927. Serial No. 23,838. Term of patent 14 years.



The ornamental design for a shingled roof, substantially as shown and described.

77,219. RING. EMANUEL CINER, New York, N. Y. Filed Oct. 25, 1928. Serial No. 28,635. Term of patent 3½ years.

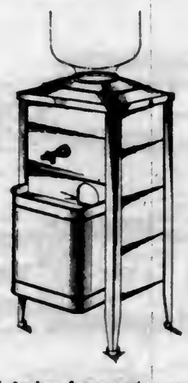


The ornamental design for a ring, as shown.





77,220. WATER COOLER. HENRY G. CORDLEY, New York, N. Y. Filed Mar. 20, 1928. Serial No. 25,927. Term of patent 14 years.



The ornamental design for a water cooler, as shown.

77,221. FACE PLATE. JOSEPH CURIN, Chicago, Ill. Filed Feb. 16, 1928. Serial No. 25,458. Term of patent 3½ years.



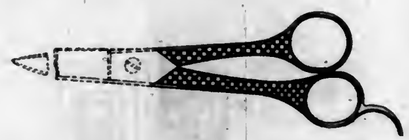
The ornamental design for a face plate, as shown.

77,222. BELT BUCKLE. ROBERT F. EICHNER, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Sept. 12, 1928. Serial No. 28,121. Term of patent 7 years.



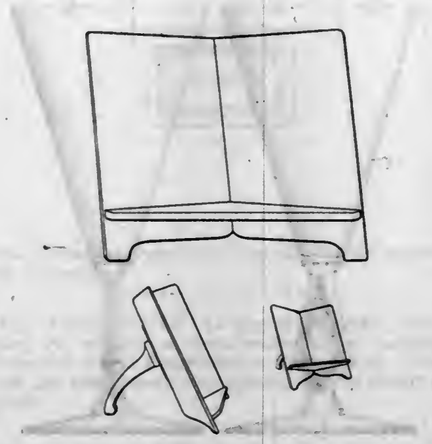
The ornamental design for a belt buckle, as shown.

77,223. PAIR OF SCISSORS. AUGUST F. ERN, Scarsdale, N. Y., assignor to K. C. Seelbach Company, New York, N. Y., a Corporation of New York. Filed June 15, 1927. Serial No. 22,435. Term of patent 7 years.



The ornamental design for a pair of scissors, as shown and described.

77,224. BOOKREST. BROR ERIC DAHLGREN, Chicago, Ill. Filed Feb. 13, 1928. Serial No. 25,426. Term of patent 14 years.



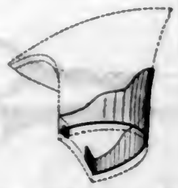
The ornamental design for a bookrest as shown.

77,225. FLOWERPOT HOLDER. EMIL DANZ, New York, N. Y. Filed Oct. 19, 1927. Serial No. 23,799. Term of patent 3½ years.



The ornamental design for a flower pot holder as shown.

77,226. RING FOR A SHOE HEEL OR SIMILAR ARTICLE. VINCENT DE PASCAL, Marseille, France. Filed Jan. 11, 1928. Serial No. 24,807. Term of patent 7 years.



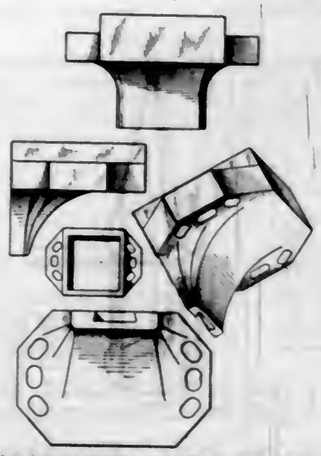
The ornamental design for a ring for a shoe heel or similar article, as shown.

77,227. GOBLET. GEORGE DOUGHERTY, Morgantown, W. Va., assignor to Economy Glass Company, Morgantown, W. Va., a Corporation of West Virginia. Filed Oct. 1, 1928. Serial No. 28,335. Term of patent 7 years.



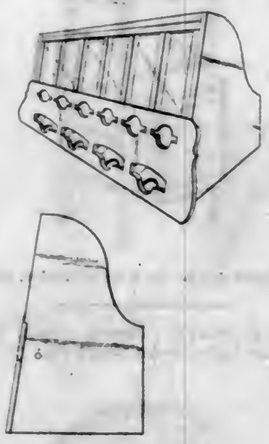
The ornamental design for a goblet, as shown.

77,228. BATHROOM FIXTURE. PAUL G. DUBYEA, Trenton, N. J., assignor to Woodward-Wanger Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 11, 1928. Serial No. 28,462. Term of patent 14 years.



The ornamental design for a bath-room fixture, substantially as shown.

77,229. COMBINED DISPLAY AND VENDING CABINET. ROBERT G. FISHEL, Chicago, Ill. Filed July 5, 1927. Serial No. 22,660. Term of patent 8½ years.



The ornamental design for a combined display and vending cabinet as shown.

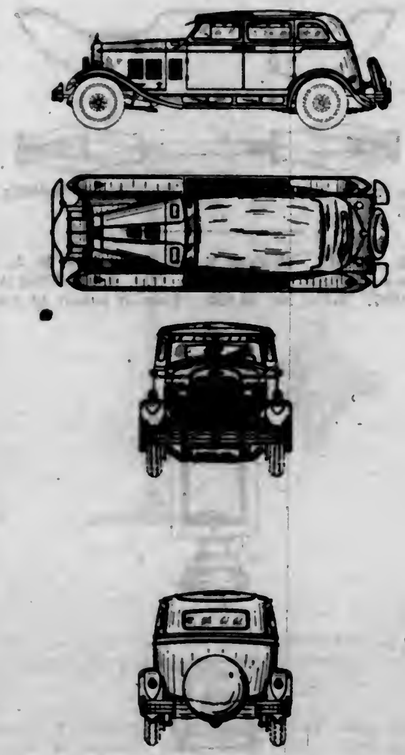
77,230. PIN WHEEL. JOHN S. FRIDOLPH, New York, N. Y., assignor to The De-Lite-Us Spring Clasp Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 11, 1928. Serial No. 27,790. Term of patent 3½ years.



The ornamental design for a pin wheel, as shown.

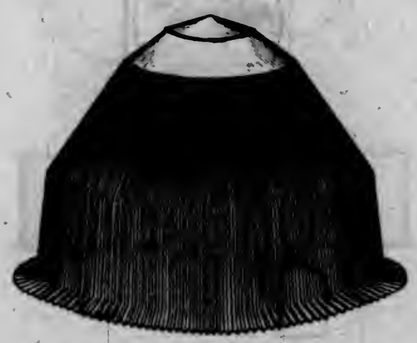


77,231. COMBINATION AUTOMOBILE BODY, HOOD, AND FENDERS. EDWARD W. GOODWIN, Detroit, Mich. Filed Oct. 29, 1927. Serial No. 23,922. Term of patent 7 years.



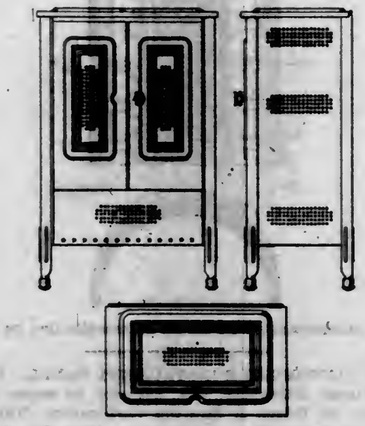
The ornamental design for a combination automobile body, hood, and fenders, as shown.

77,232. PLANT COVER. FRIEDRICH GRAFFENBERGER, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 10, 1928. Serial No. 28,102. Term of patent 14 years.



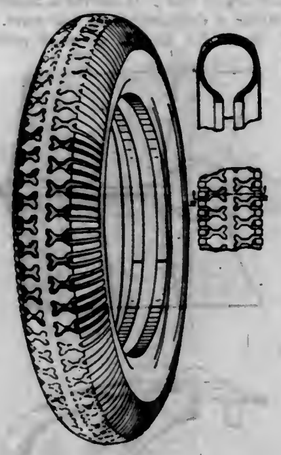
The ornamental design for a plant cover, as shown.

77,233. VEGETABLE CABINET. MAX HALPERT, New York, N. Y. Filed Aug. 9, 1928. Serial No. 27,754. Term of patent 14 years.



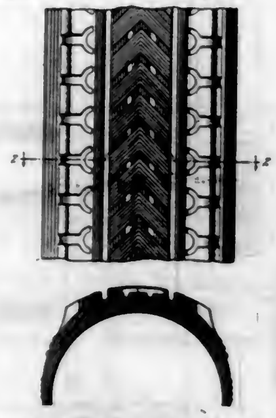
The ornamental design for a vegetable cabinet substantially as shown.

77,234. VEHICLE TIRE. LA PORT W. HERBNER, Greensburg, Pa., assignor to Pennsylvania Rubber Company, Jeannette, Pa., a Corporation of Pennsylvania. Filed Apr. 25, 1928. Serial No. 26,448. Term of patent 14 years.



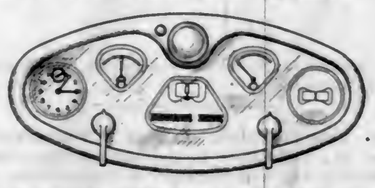
The ornamental design for a vehicle tire, as shown.

77,235. AUTOMOBILE TIRE. HARRY C. HOWER, Chicago, Ill. Filed June 11, 1928. Serial No. 27,082. Term of patent 14 years.



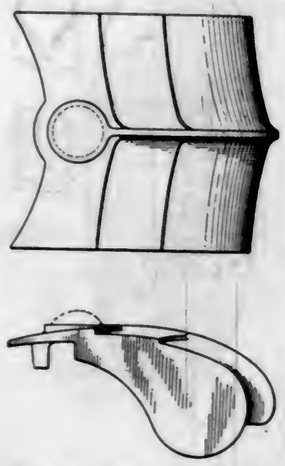
The ornamental design for an automobile tire, as shown.

77,236. AUTOMOBILE INSTRUMENT PANEL. EDWARD N. JACOBI, Milwaukee, Wis., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 5, 1923. Serial No. 4,816. Term of patent 3½ years.



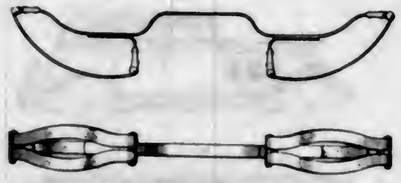
The ornamental design for an automobile instrument panel, as shown.

77,237. MASK PLATE FOR VEHICLE BUMPERS. HERBERT S. JANDUS and NORMAN VAN HUSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed June 17, 1927. Serial No. 22,482. Term of patent 14 years.



The ornamental design for a mask plate for vehicle bumpers, substantially as shown and described.

77,238. BUMPER. HERBERT S. JANDUS and CHARLES E. RASMUSSEN, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed July 28, 1927. Serial No. 22,910. Term of patent 14 years.



The ornamental design for a bumper substantially as shown.

77,239. NICHE. EDMUND KAIM, Jersey City, N. J., assignor to Jacob Koenig, Jersey City, N. J. Filed Aug. 8, 1927. Serial No. 23,025. Term of patent 14 years.



The ornamental design for a niche as shown.

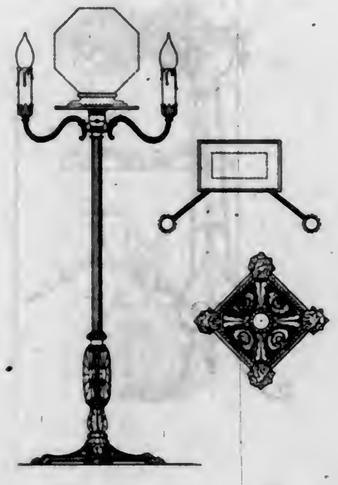
77,240. VEHICLE RADIATOR COVER. MICHALE KISHAW, Detroit, Mich. Filed Aug. 29, 1928. Serial No. 27,983. Term of patent 14 years.



The ornamental design for a vehicle radiator cover, as shown.

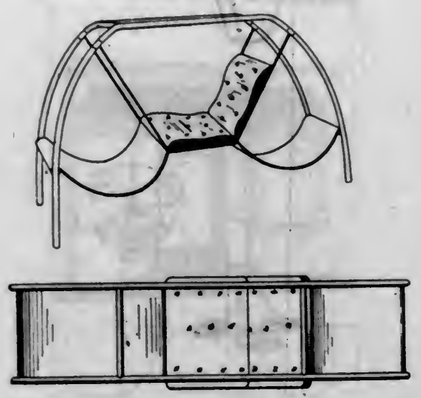


77,241. COMBINATION LIGHTING FIXTURE AND SUPPORT FOR LOUD-SPEAKER UNITS. BENJAMIN F. KLEIN, Cleveland, Ohio. Filed Sept. 29, 1928. Serial No. 28,823. Term of patent 14 years.



The ornamental design for a combination lighting fixture and support for loud speaker units, as shown.

77,242. COMBINED HAMMOCK SEAT AND FRAME. PAUL A. KNAPPE, Santa Rosa, Calif. Filed Apr. 16, 1928. Serial No. 26,328. Term of patent 3½ years.



The ornamental design for a combined hammock seat and frame substantially as shown.

77,243. SACHET DEVICE. CLAYTON W. KNAPP, Cleveland, Ohio. Filed June 11, 1928. Serial No. 27,080. Term of patent 3½ years.



The ornamental design for a sachet device as shown.

77,244. SACHET DEVICE. CLAYTON W. KNAPP, Cleveland, Ohio. Filed June 11, 1928. Serial No. 27,081. Term of patent 3½ years.



The ornamental design for a sachet device as shown.

77,245. LAMP STANDARD. JOSEPH LIEBERMAN, Bayonne, N. J. Filed Sept. 13, 1928. Serial No. 28,129. Term of patent 14 years.



The ornamental design for a lamp standard substantially as shown.

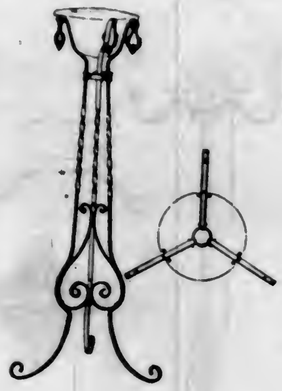
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77,246. MASK. HUGO LOEWENBACH, Milwaukee, Wis. Filed Mar. 22, 1928. Serial No. 25,950. Term of patent 14 years.



The ornamental design for a mask, as shown, and described.

77,247. FERN STAND. ISIDORE MARSHAK, Brooklyn, N. Y., assignor to Alexander Amitin, Brooklyn, N. Y. Filed Feb. 1, 1928. Serial No. 25,124. Term of patent 3½ years.



The ornamental design for a fern stand, substantially as shown.

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77,248. FERN STAND. ISIDORE MARSHAK, Brooklyn, N. Y., assignor to Alexander Amjtin, Brooklyn, N. Y. Filed Feb. 4, 1928. Serial No. 25,195. Term of patent 3½ years.



The ornamental design for a fern stand, substantially as shown.



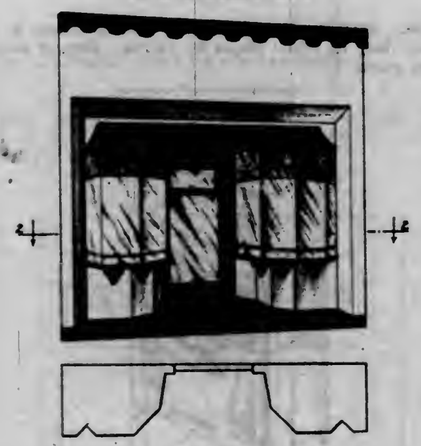
77,249. BROOCH OR SIMILAR ARTICLE. BERNAT MECHLOVITS, New York, N. Y. Filed Oct. 25, 1928. Serial No. 28,638. Term of patent 3½ years.



The ornamental design for a brooch or similar article, as shown.

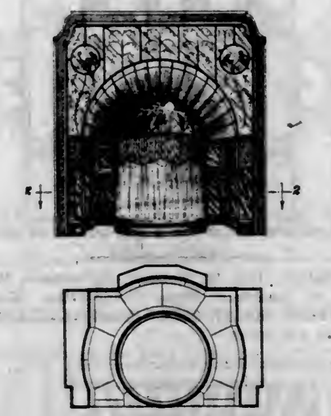
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77,250. STORE FRONT. WARD MELVILLE, Brooklyn, N. Y., assignor to Melville Shoe Corporation, a Corporation of New York. Filed Mar. 18, 1925. Serial No. 12,755. Term of patent 14 years.



The ornamental design for a store front, as shown.

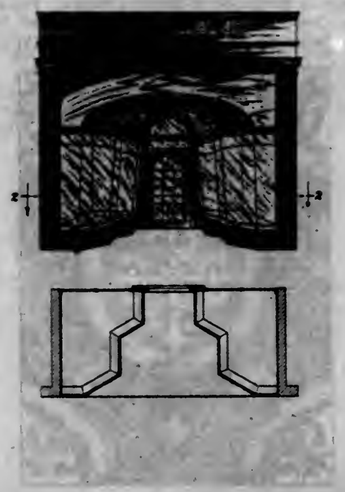
77,251. STORE FRONT. WARD MELVILLE, Old Field, N. Y., assignor to Melville Shoe Corporation, a Corporation of New York. Filed June 19, 1928. Serial No. 27,199. Term of patent 14 years.



The ornamental design for a store front, as shown.

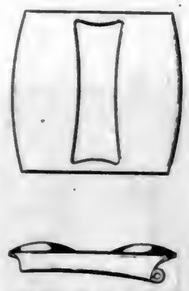
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77,252. STORE FRONT. WARD MELVILLE, Old Field, and RICHARD H. SMYTHE, Brooklyn, N. Y., assignors to Melville Shoe Corporation, a Corporation of New York. Filed June 19, 1928. Serial No. 27,201. Term of patent 14 years.



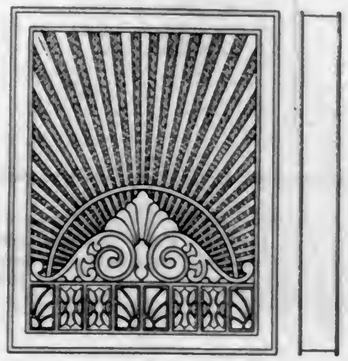
The ornamental design for a store front, as shown.

77,253. BELT BUCKLE. EDWIN S. MIX, Rochester, N. Y., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 19, 1928. Serial No. 26,391. Term of patent 7 years.



The ornamental design for a belt buckle, as shown.

77,254. SIGN. DON W. NORTON, Kalamazoo, Mich., assignor to American Signs Corporation, Kalamazoo, Mich. Filed Aug. 17, 1928. Serial No. 27,866. Term of patent 3½ years.



The ornamental design for a sign, as shown.

77,255. CARPET. ALFRED OAKLEY, Philadelphia, Pa., assignor to Hardwick & Magee Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 29, 1928. Serial No. 28,327. Term of patent 3½ years.



The ornamental design for a carpet, substantially as shown.

77,256. AUTOMOBILE TRAFFIC LAMP. GIUSEPPE PALMIERI, Providence, R. I. Filed Sept. 4, 1928. Serial No. 28,035. Term of patent 3½ years.



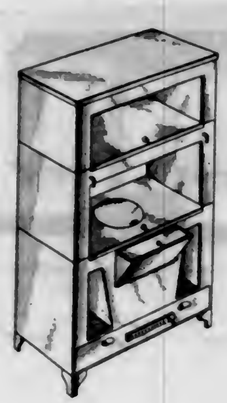
The ornamental design for an automobile traffic lamp, as shown.

77,257. OPTICAL MOUNTING. EMANUEL PAPPERT, New York, N. Y. Filed Sept. 6, 1928. Serial No. 28,061. Term of patent 7 years.



The ornamental design for an optical mounting, as shown.

77,258. STOVE. ERASTUS W. ROGERS, Durham, N. C. Filed May 18, 1926. Serial No. 17,764. Term of patent 3½ years.



The ornamental design for a stove as shown.



77,259. COMBINATION PITCHER AND DRINKING GLASS. WALTER C. ROSS, New York, N. Y. Filed Feb. 27, 1928. Serial No. 25,609. Term of patent 7 years.



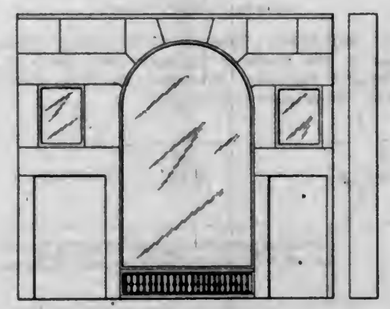
The ornamental design for a combination pitcher and drinking glass, as shown.

77,260. BOX. FRANK J. SCHLEICHER, St. Louis, Mo. Filed Oct. 18, 1928. Serial No. 28,533. Term of patent 14 years.



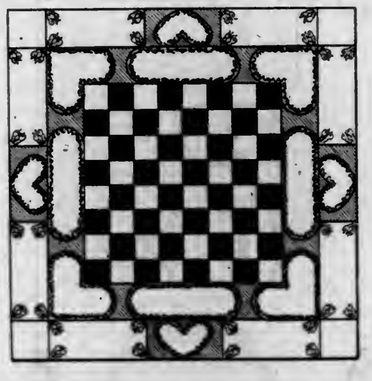
The ornamental design for a box as shown.

77,261. STORE FRONT. BERNARD F. SCHULTE, New York, N. Y. Filed Aug. 26, 1926. Serial No. 18,878. Term of patent 3½ years.



The ornamental design for a store front as shown.

77,262. TABLE TOP. HARRY T. SMITH, Miami, Fla. Filed Feb. 7, 1928. Serial No. 25,249. Term of patent 7 years.



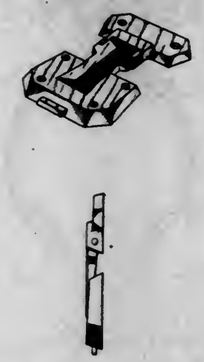
The ornamental design for a table top as shown.

77,263. LOUD-SPEAKER DIAPHRAGM. LESLIE STEVENS, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 16, 1927. Serial No. 20,784. Term of patent 7 years.



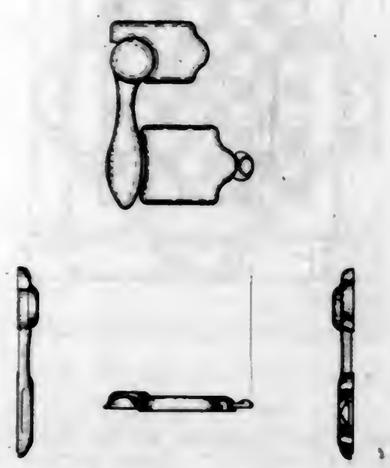
The ornamental design for a loud speaker diaphragm, as shown.

77,264. HASP LOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed June 18, 1928. Serial No. 27,185. Term of patent 14 years.



The ornamental design for a hasp lock, as shown.

77,265. SUITCASE LOCK. ELMER B. STONE, New Britain, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 27, 1928. Serial No. 27,968. Term of patent 14 years.



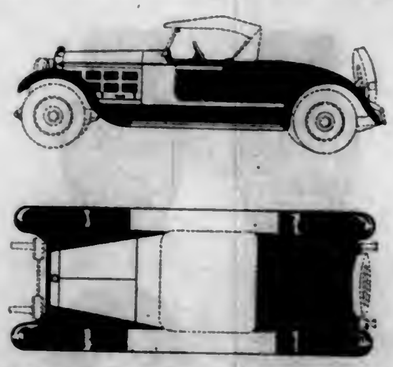
The ornamental design for a suitcase lock, as shown.

77,266. DOOR KNOCKER. WILLIAM WAVERLY TAYLOR, Jr., Washington, D. C., assignor to Waverly Taylor, Inc., Washington, D. C., a Corporation of Maryland. Filed Oct. 17, 1928. Serial No. 28,521. Term of patent 14 years.



The ornamental design for a door knocker, as shown.

77,267. MOTOR-CAR BODY. WEBSTER TILTON, St. Louis County, Mo., assignor to Gardner Motor Company, Inc., St. Louis, Mo., a Corporation of New York. Filed July 7, 1927. Serial No. 22,690. Term of patent 3½ years.



The ornamental design for a motor car body, as shown and described.

77,268. MOLDING. EDWARD TONEY, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a Corporation of Michigan. Filed Mar. 19, 1928. Serial No. 25,921. Term of patent 14 years.



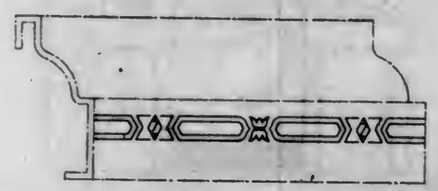
The ornamental design for a molding substantially as shown.

77,269. MOLDING. EDWARD TONEY, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a Corporation of Michigan. Filed Mar. 19, 1928. Serial No. 25,922. Term of patent 14 years.



The ornamental design for a molding substantially as shown.

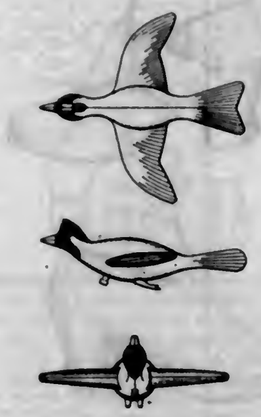
77,270. MOLDING. EDWARD TONEY, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a Corporation of Michigan. Filed Mar. 23, 1928. Serial No. 25,975. Term of patent 14 years.



The ornamental design for a molding substantially as shown.



77,271. TOY BALLOON. JESSIE CARR TYNDALL, St. Louis, Mo. Filed Sept. 6, 1927. Serial No. 23,308. Term of patent 7 years.



The ornamental design for a toy balloon, as shown.

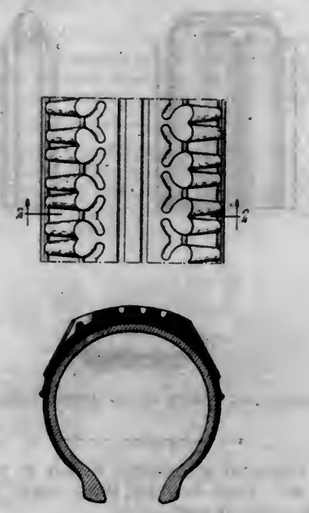
77,272. STREET-LIGHTING POST. WESTERN UNDERWOOD, Los Angeles, Calif. Filed Oct. 4, 1928. Serial No. 28,365. Term of patent 7 years.



The ornamental design for a street lighting post, as shown.



77,273. TIRE. HENRY L. VENN, River Forest, Ill., assignor to Century Rubber Works, Cicero, Ill., a Corporation of Illinois. Filed Oct. 1, 1928. Serial No. 28,345. Term of patent 7 years.



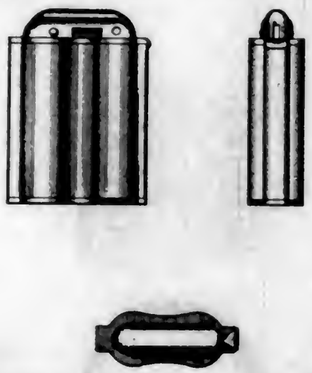
The ornamental design for a tire substantially as shown.

77,274. TIRE. HENRY L. VENN, River Forest, Ill., assignor to Century Rubber Works, Cicero, Ill., a Corporation of Illinois. Filed Oct. 3, 1928. Serial No. 28,358. Term of patent 7 years.



The ornamental design for a tire substantially as shown.

77,275. LIGHTER. WALFRED WALLENTHIN, Attleboro, Mass., assignor to The Associated Attleboro Manufacturers, Inc., Attleboro, Mass., a Corporation of Massachusetts. Filed Apr. 5, 1928. Serial No. 26,132. Term of patent 7 years.



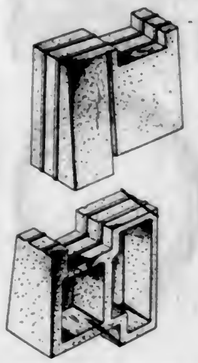
The ornamental design for a lighter substantially as shown.

77,276. VENDING MACHINE. GEORGE R. WEBBER, Augusta, Me. Filed June 14, 1928. Serial No. 27,126. Term of patent 14 years.



The ornamental design for a casing for a vending machine, as shown.

77,277. CONCRETE SHINGLE BLOCK FOR BUILDING WALLS. DURAINE E. WELCH, Upper Sandusky, Ohio. Filed Mar. 5, 1928. Serial No. 25,672. Term of patent 3½ years.



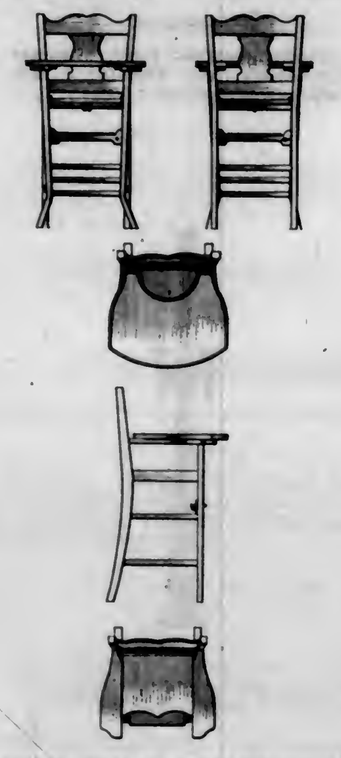
The ornamental design for a concrete shingle block for building walls, as shown.

77,278. OVERSHOE. HERMAN WESTLING, Watertown, Mass., assignor to Cambridge Rubber Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1926. Serial No. 19,846. Term of patent 3½ years.



The ornamental design for an overshoe, as shown.

77,279. CHILD'S HIGH CHAIR. PHILLIP A. SHAVER, Puente, Calif. Filed July 25, 1927. Serial No. 22,876. Term of patent 7 years.

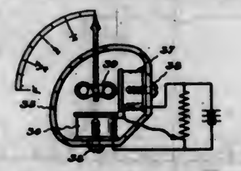


The ornamental design for a child's high chair, as shown.

# PATENTS

## GRANTED DECEMBER 18, 1928.

1,695,264. ELECTRICAL INDICATING INSTRUMENT. CLARK M. ADAMS, Ottawa Hills, Ohio, assignor to The W. G. Nagel Electric Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 18, 1926. Serial No. 141,337. 4 Claims. (Cl. 171—95.)



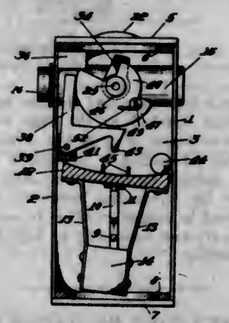
2. An indicating instrument comprising an endless field piece, a pair of magnetizing coils extending inwardly from the field piece and having their axes arranged at an angle relative to each other, and an armature of magnetizable material pivotally mounted within the field of influence of each of said coils and said field piece whereby said armature is moved to a multiplicity of indicating positions in accordance with the relative energization of said windings.

1,695,265. DRAW-TABLE-HEATING UNIT. WALTER O. AMSLER, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 9, 1924. Serial No. 742,508. 10 Claims. (Cl. 49—17.)



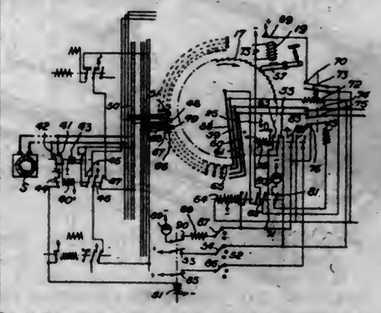
4. In combination with a sheet glass drawing apparatus draw-table, of means to create a flame to heat the draw table, a slab arranged in the path of the flame to deflect the same, and means to adjust the slab to control the angularity of deflection of the flame with respect to the draw-table.

1,695,266. KEYLESS LOCK. HARRY GUY ANDERSON, New York, N. Y. Filed Jan. 8, 1926, Serial No. 80,010. Renewed Apr. 25, 1928. 6 Claims. (Cl. 292—169.)



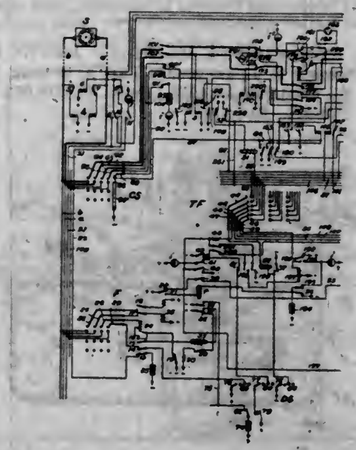
1. In a keyless lock, a casing, a bolt slidably arranged in said casing, bolt actuating mechanism carried by said casing, a lever fulcrumed to said casing and serving in one position to block operation of said bolt actuating mechanism, and delicately poised mechanism associated with said lever and normally disposed in horizontal position sensitive to vibration caused by exterior commotion whereby said lever is rendered operative or inoperative.

1,695,267. AUTOMATIC TELEPHONE SYSTEM. FRITZ ALDENDORFF, Berlin-Wilmersdorf, Germany; Charlotte Aldendorff heiress of said Fritz Aldendorff, deceased. Filed Jan. 12, 1925, Serial No. 1,889, and in Germany Jan. 14, 1924. 24 Claims. (Cl. 179—27.5.)



1. In a selector switch, a brush, bank contacts, a self-contained power device for driving said brush to any desired bank contact and then to a normal position, a brush-arresting member that moves with said brush, an electromagnet whose armature stops the brush on its deenergizing, and a circuit through said bank contacts for the electromagnet which is opened when the brush reaches a desired bank contact.

1,695,268. AUTOMATIC TELEPHONE SYSTEM. FRITZ ALDENDORFF, Berlin-Wilmersdorf, Germany, assignor of one-fourth to Paul Kolisch, New York, N. Y.; Charlotte Aldendorff sole heir of said Fritz Aldendorff, deceased. Original application filed Feb. 14, 1922, Serial No. 536,504, now Patent No. 1,641,145, dated Sept. 6, 1927, and in Great Britain May 17, 1921. Divided and this application filed Apr. 7, 1926. Serial No. 100,291. 16 Claims. (Cl. 179—18.)

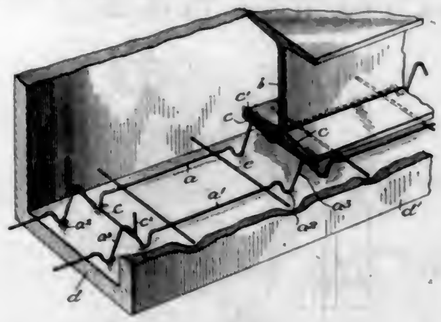


1. In a telephone system; lines; impulse transmitters associated with said lines; a conversational switch with

fixed contacts connected to said lines, movable contacts, and operating means for operating said movable contacts; an impulse receiving designating switch adapted to be set by a said impulse transmitter; starting means for starting said operating means immediately impulses commence being sent into the impulse receiving switch from a said impulse transmitter; and means for controlling the operation of said movable contacts in accordance with the setting of the impulse receiving designating switch.

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1,695,269. CONCRETE REENFORCEMENT. FRANCIS M. BARTON, Chicago, Ill. Filed Sept. 6, 1927. Serial No. 217,571. 4 Claims. (Cl. 72—109.)



1. In reenforcement for concrete, the combination of a plurality of wires adapted to extend longitudinally under a beam and having portions thereof bent downwardly to space the bottom of a form from the beam, cross-wires fixed to the longitudinal wires so as to be spaced away from the beam and to reenforce the concrete under the beam, and means for securing the reenforcement to the beam.

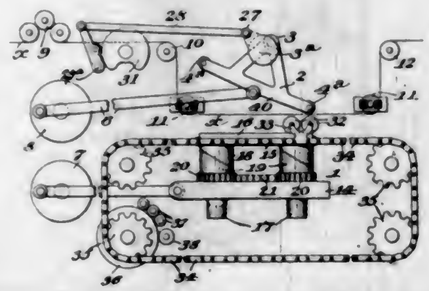
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1,695,270. METHOD OF OBTAINING TITANIC OXIDE. LOUIS E. BARTON and CHARLES J. KINZIE, Niagara Falls, N. Y., assignors to Titanium Pigment Company, Inc., New York, N. Y., a Corporation of Maine. Filed Feb. 16, 1925. Serial No. 9,415. 8 Claims. (Cl. 23—202.)

3. In obtaining titanic oxide from titaniferous ores, the step which consists in mixing and heating said ores together with sulphuric acid and an alkali metal sulphate to formation of water soluble salts, but without fusion.

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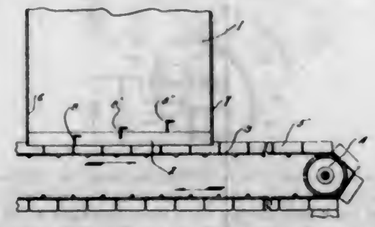
1,695,271. WEB-PRINTING MACHINE. JOHN D. CAPLINGER, Newark, N. J., assignor to Carl A. Kellogg, New York, N. Y. Filed Feb. 11, 1918. Serial No. 216,675. 50 Claims. (Cl. 101—212.)



1. In a web printing machine, a bed, means for reciprocating said bed endwise, means for continuously feeding a web over said bed, in combination with a pivoted platen having a curved impression surface, said platen being pivoted below the center of curvature of said impression surface, and means functioning to separate the bed and platen at intervals to permit the free movement of the web.

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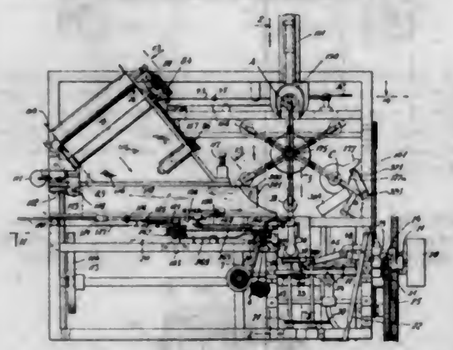
1,695,272. BIN-GATE ARRANGEMENT. CHARLES H. CHRISTIAN and CARL F. WALKER, Cleveland, Ohio. Filed Dec. 2, 1926. Serial No. 152,216. 2 Claims. (Cl. 198—57.)



1. In a combined bin and conveyor for use in handling granular material, a travelling conveyor substantially imperforate for carrying and conveying the material delivered upon it, a bin above one stretch of said conveyor and having a mouth for delivering materials to said conveyor, said bin forming with said conveyor a side delivery opening for the material where said conveyor passes from said mouth, and vertically fixed narrow baffle strips in the mouth of the bin for insuring delivery of the material from all parts of the bin to prevent caking or clogging.

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1,695,273. MACHINE FOR MAKING HAT LININGS. MAX COHN, Brooklyn, N. Y., assignor to Cee-Bee Machine Corporation, a Corporation of New York. Filed Feb. 4, 1926. Serial No. 85,832. 38 Claims. (Cl. 112—2.)



1. A machine for making hat linings which consist of a tip and a band stitched to the edge of the tip, comprising the combination of a power driven sewing machine, means for advancing a succession of tips to the needle of the sewing machine one after another, and separate means for advancing bands to the needle and positioning a band in proper relation to each tip, whereby the edges of the tip and band may be united by the sewing machine by stitching.

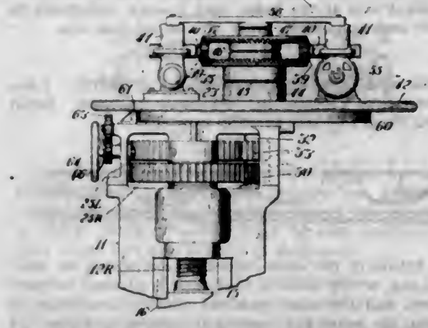
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1,695,274. SCREW-DOWN MECHANISM FOR ROLLING MILLS. WILLIAM C. CORYELL, Youngstown, Ohio. Filed Aug. 13, 1925. Serial No. 49,983. 4 Claims. (Cl. 80—56.)

1. A screw-down mechanism for rolling mills, comprising holding-down screws, two opposed bevel gear wheels,



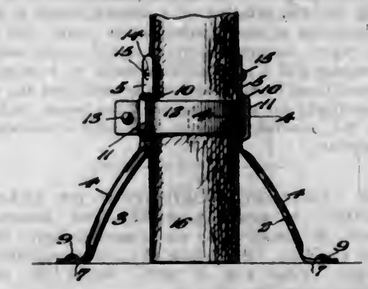
an intermediate bevel gear wheel meshing with said opposed wheels, means for rotating said intermediate wheel to drive said opposed wheels, means for moving said three wheels as a unit, a shaft to which one of said opposed gear wheels is secured, a sleeve rotatable on said shaft,



the other of said opposed gear wheels being secured to said sleeve, and independent gear trains between said screws and shaft and sleeve respectively whereby different adjustments of said screws are obtained in response to unitary and differential movements of said gear wheels.

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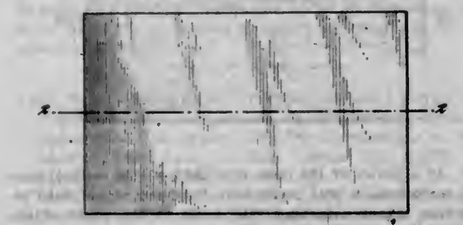
1,695,275. TREE HOLDER. ANTHONY E. DAVIS, Philadelphia, Pa. Filed Nov. 19, 1924. Serial No. 750,726. 1 Claim. (Cl. 248—38.)



A tree holder, comprising legs each being formed of sheet metal with a tree contacting portion and downwardly and outwardly inclined leg portions and with the tree contacting portion having guide bands deflected therefrom, a flexible clamping member passing between said guide bands and the tree contacting portions, fastening devices adapted to pass through the legs and engage the tree, and securing means for said clamping member.

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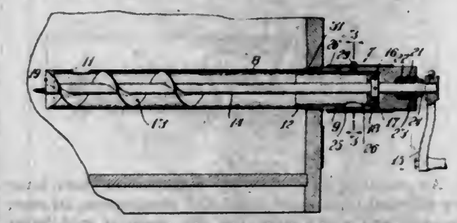
1,695,276. SURFACING ELEMENT AND PROCESS OF MANUFACTURING THE SAME. HENRY C. FLOHR, New York, and LEON ORNSTEIN, Brooklyn, N. Y. Filed Feb. 6, 1926. Serial No. 86,475. 4 Claims. (Cl. 91—68.)



4. The process of manufacturing a surfacing element consisting in applying to the surface of an asbestos board base, a penetrating and adhesive solution consisting of nitro-cellulose, gum and a vegetable oil, permitting the same to dry, and then applying a filling solution composed of an amorphous substance incorporated with a bodied vegetable oil and nitro-cellulose, permitting the same to dry, then applying a finishing solution comprising a pigment incorporated with nitro-cellulose, gum and a vegetable oil.

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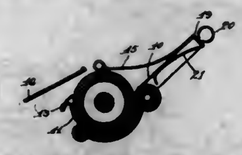
1,695,277. CONVEYER. BENJAMIN FRANKLIN FORSYTH, Chicago, Ill. Filed June 19, 1925. Serial No. 38,279. 9 Claims. (Cl. 225—42.)



1. In a conveyer discharging device for insertion in barrels and like containers, a bit for boring through the wall of the barrel, a screw conveyer in continuation of said bit, and means for supporting said screw conveyer in said barrel.

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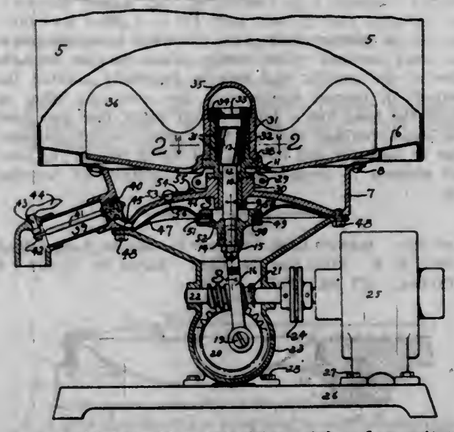
1,695,278. CARD HOLDER. MAX GARBELL, Chicago, Ill., assignor to Victor Adding Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1927. Serial No. 204,826. 5 Claims. (Cl. 197—136.)



1. A card holder adapted to be quickly attached to and detached from a typewriter comprising an integrally formed member of springy material adapted for detachable securing to the paper table of a typewriter and having arms extending forwardly of said table and into proximity to a platen and having a portion extending rearwardly from said arms and adapted to clamp over the rear of said table.

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1,695,279. WASHING MACHINE. FRANK G. GIES, Detroit, Mich., assignor of one-half to Leonard Lesszynski, Detroit, Mich. Filed Oct. 15, 1927. Serial No. 226,274. 14 Claims. (Cl. 259—101.)

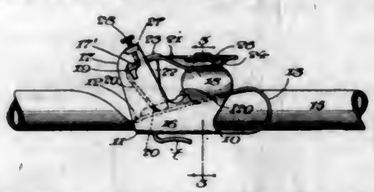


1. A washing machine comprising a tub and an agitator therein, a driver positioned outside the tub, driving means

connecting said driver and agitator, and a flexible member connected at one edge to a portion of the tub assembly and at another edge to a portion of the driving means and acting to seal the tub against leakage around the driving means.

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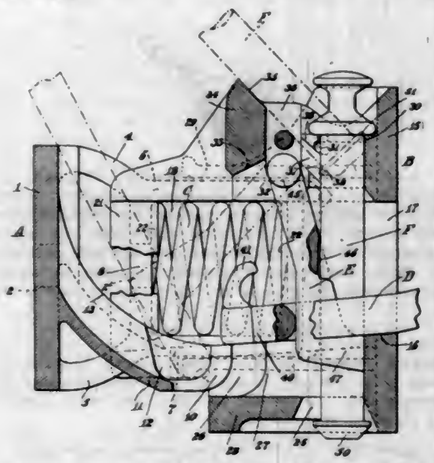
1,695,280. TUBE COMPRESSOR. HERMAN GOLLOMB, Brooklyn, N. Y. Filed Aug. 21, 1926. Serial No. 130,568. 8 Claims. (Cl. 251—5.)



8. An angular lever for tube compressors, said lever being stamped from sheet metal and compressing an operating arm and a cam arm, the side edges of said latter arm having upwardly bent reinforcing flanges which bear at their inner ends against the operating arm at the juncture of the arms.

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1,695,281. CAR COUPLER. LOUIS D. GREGG, Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y., a Corporation of New York. Filed Apr. 30, 1926. Serial No. 105,653. 25 Claims. (Cl. 213—49.)



1. A car coupler of the type described comprising base and head sections telescopically joined on the opposite sides of the coupler and springs yieldingly holding the sections in normal relationship one upon the other in which the head has a solid central buffer face and head and base provided between the springs a link chamber open at its outer end through the buffer face of the head and adapted to receive therein an independent coupling link.

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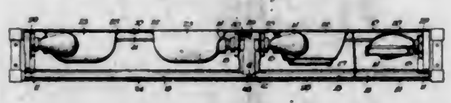
1,695,282. BANJO RIM. ALBERT D. GROVER, Long Island City, N. Y. Filed Nov. 25, 1925. Serial No. 71,487. 3 Claims. (Cl. 84—269.)



1. In a banjo, a rim and resonator formed from a single blank and comprising an integral base rim, intermediate annular flange, and head supporting rim having a concave back portion forming a resonator, a neck for said base rim, and connecting means for the rim and neck comprising a bar wedged in an opening in said neck and having a threaded bore disposed parallel with the longitudinal axis of the banjo, and a screw adjustable in said bore and against the inner face of the base rim.

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1,695,283. BANK-SCREEN-LIGHTING DEVICE. PAUL M. HOTCHKIN, Chicago, Ill. Filed Oct. 16, 1925. Serial No. 62,701. 15 Claims. (Cl. 240—6.)



1. A fixture of the class described, comprising an elongated casing, wiring boxes in the casing, a wireway between the boxes, and retaining members slidably positioned in grooves in the boxes and bearing transversely against the wireway near the ends thereof for holding the same in alignment with openings in the boxes.

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1,695,284. COLOR PHOTOGRAPH OR FILM AND METHOD OF PRODUCING SAME. FREDERIC E. IVES, Philadelphia, Pa., assignor to Carl W. Fenninger, Philadelphia, Pa. Filed Oct. 20, 1926. Serial No. 143,023. 18 Claims. (Cl. 95—2.)

1. In photographic color print making, the process of preparing for the printing of a second image a colloid layer containing a photographic silver image and silver bromide, which comprises converting the silver image to silver bromide and a pigment blue image by treatment in a bath containing in combination a bromide and the necessary ingredients for producing the blue image, and then treating the resultant product in a bath containing an alkali sulphate.

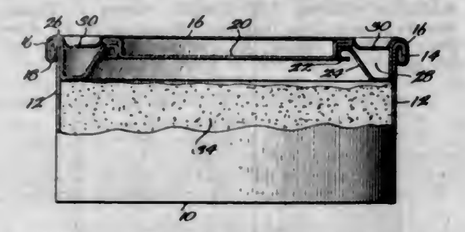
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1,695,285. CATALYTIC OXIDATION OF SULPHUR DIOXIDE. ALPHONS O. JAEGER and JOHANN A. BERTSCH, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 6, 1926. Serial No. 86,653. 12 Claims. (Cl. 23—175.)

1. The process of catalytically oxidizing sulphur dioxide which comprises passing gases containing sulphur dioxide, oxygen and at least one catalyst poison other than arsenic alone at elevated temperatures over catalytically active zeolites which are free from platinum.

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1,695,286. CAN. ALBERT C. JOHNSON, Chicago, Ill. Filed Feb. 1, 1927. Serial No. 165,222. 5 Claims. (Cl. 220—27.)



1. In a device of the class described, a side walled, open top receptacle, a seal cover over the open top of said receptacle, means attaching said cover to the edges of the side walls of said receptacle, a temporary service cover inside the receptacle adjacent the seal cover, and secured at its edge at the upper edge of the receptacle, said cover being so shaped that a can opening instrument may traverse and cut the seal cover without injury to the service cover.



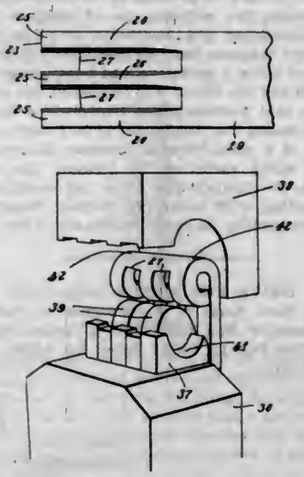
1,695,287. VANITY CASE. NATHAN KASDAN, New York, and DANIEL POLLACK, Brooklyn, N. Y., assignors to Majestic Metal Specialties, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 8, 1925. Serial No. 73,974. 4 Claims. (Cl. 132—83.)



1. A vanity case having in combination an apertured plate, a flange at the edge of the aperture, and a friction snap catch extending from the edge of the aperture, and a dished compact holder fitted in said aperture against said flange and held therein by said snap.

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1,695,288. METHOD OF MANUFACTURING COVERED-JOINT HINGES. WILLIAM C. KENYON, Rockford, Ill., assignor to The Atwood Vacuum Machine Company, a Copartnership consisting of Seth B. Atwood and James T. Atwood, Rockford, Ill. Filed Nov. 12, 1926. Serial No. 148,022. 7 Claims. (Cl. 29—11.)

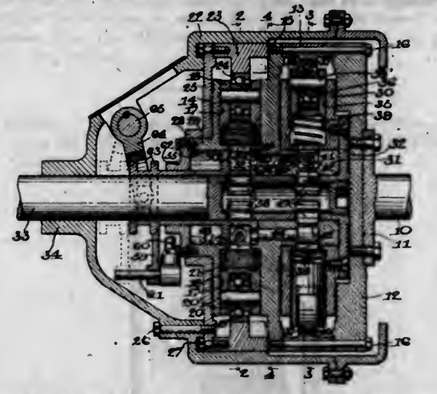


3. The method of manufacturing a covered joint hinge member from a flat metal blank, consisting in milling two parallel grooves in one side only of the blank, said grooving extending longitudinally from one end to an intermediate point, slotting through the bottom of said grooves from said end to a point intermediate the ends of the grooves, thereby forming a shoulder at the open end of each groove, said shoulders being inclined from the center outwardly away from the end face above mentioned, bending or curling the grooved and slotted portions to form a covered joint knuckle, and crowning the covering portion of the knuckle by a stamping operation which by displacement of metal brings said inclined shoulders substantially into coplanar relation.

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1,695,289. HYDRAULIC TRANSMISSION. ROYAL LEE, Milwaukee, Wis., assignor to Lee Engineering Research Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 13, 1925. Serial No. 43,280. 13 Claims. (Cl. 60—53.)

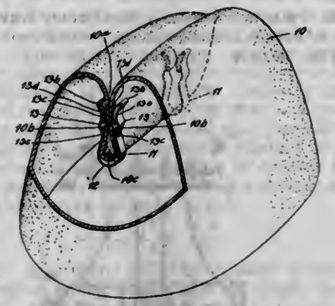
12. In a hydraulic transmission, the combination of a pair of relatively rotatable cylinder barrels one rotatably mounted on the other and each having a plurality of radially disposed cylinder bores therein, fluid-displacing pistons movable in said bores, means for driving one of said cylinder barrels, stationary cam means surrounding said driving cylinder barrel and having an operative connection with the pistons therein; a second cam means surrounding the other of said cylinder barrels and secured to



rotate with said driving cylinder barrels, a driven member secured to said other cylinder barrel, and angularly displaceable valve means for controlling the passage of said fluid between said barrels.

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1,695,290. SHAPE-RETAINING DEVICE FOR HATS. SAUL LEFF, New York, N. Y. Filed Dec. 3, 1924. Serial No. 753,543. 1 Claim. (Cl. 2—185.)



A hat shape retaining device of the character described comprising a single strip of resilient material formed with a loop portion mid-way its ends and two similar oppositely disposed members each terminated by an outwardly flared portion, said flared portion being inturned to extend between said members to form a double spring coacting gripping means, the portions of said members adjacent said loop being bent inwardly toward each other to form a supplemental retention means substantially as described and for the purposes specified.

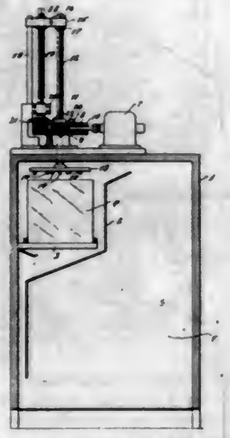
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1,695,291. JOINT FOR GOLF CLUBS. FRIEDERICH MÜLLER, Elizabeth, N. J. Filed June 21, 1927. Serial No. 200,318. 17 Claims. (Cl. 273—80.)



5. A golf club having a head and a shaft joined thereto by an electro-deposited sleeve.

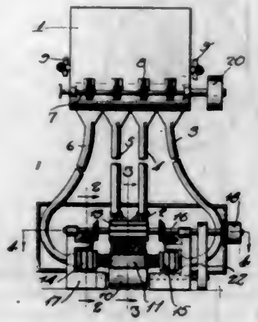
1,695,292. METHOD OF REFRIGERATION AND APPARATUS THEREFOR. CASSIUS C. PALMER, New York, N. Y. Filed Aug. 23, 1927. Serial No. 214,825. 6 Claims. (Cl. 62—92.)



1. The process which consists in shaving off portions of a cake of $CO_2$, depositing the shavings on a metal sheet and exposing the opposite side of the sheet to a chamber to be cooled.

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1,695,293. MACHINE FOR VENEERING BRICK. EMMETT V. POSTON, Springfield, Ill. Filed June 21, 1927. Serial No. 200,349. 2 Claims. (Cl. 25—1.)



1. A machine for substantially projecting and embedding granular veneer materials approximately at right angles into the exposed faces of a plastic clay body by means of mechanical rotating paddle blasting or centrifugal projecting of the materials, and means for moistening the materials.

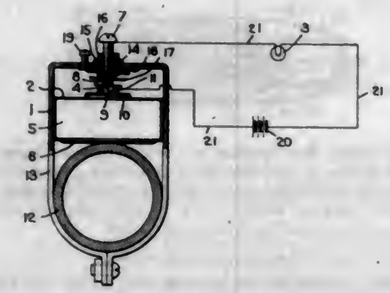
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1,695,294. AUTOMOBILE BUMPER. JOHN M. REIFSNIDER, Adrian, Mich., assignor to American Chain Company, Inc., a Corporation of New York. Filed June 21, 1927. Serial No. 200,310. 5 Claims. (Cl. 293—55.)



1. In an automobile bumper, an impact member comprising a plurality of vertically aligned, transversely extending bars having loop ends thereon, a rear bar being forwardly bent to engage said impact member at its midsection and a pair of curved plates adapted to be secured to the ends of said impact members and said rear bar in vertical alignment.

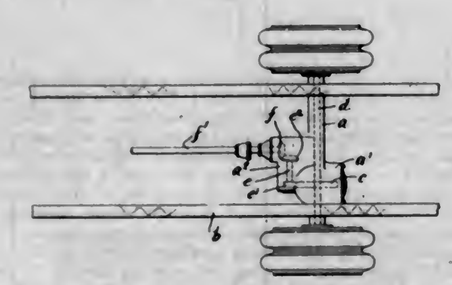
1,695,295. TEMPERATURE INDICATOR. EDWARD A. ROLLINS, Roxbury, Mass. Filed July 11, 1923. Serial No. 650,880. 2 Claims. (Cl. 177—351.)



1. A temperature indicator comprising a movable member arranged to vary its position as the temperature varies, a circuit having two contacts, one of which is carried by said movable member, and the other of which is stationarily mounted, said contacts being so relatively situated that at temperatures below a predetermined temperature they will be separated and the circuit will be opened, but at temperatures above said predetermined temperature they will be closed thus closing the circuit, one of said contacts being in the nature of a solid variable pressure rheostat, the resistance of which varies as the pressure thereon varies, whereby as the temperature rises the contacts will be pressed together with a varying pressure thereby to produce a corresponding change of resistance in the circuit.

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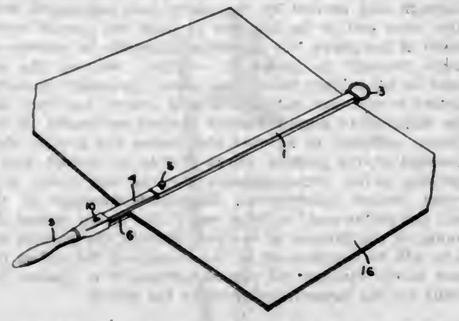
1,695,296. DRIVE FOR MOTOR VEHICLES. AZOR D. ROBBINS, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 11, 1925. Serial No. 8,329. 2 Claims. (Cl. 180—57.)



1. In a drive for a motor vehicle having a central longitudinal aisle section and wherein the elements thereof are constructed to provide maximum clearance between the frame and axle, the combination of a drive shaft disposed in the median plane of the vehicle and extending rearwardly to the final drive thereof, live axle sections, differential gearing for the live axle sections at one side of the longitudinal median plane of the vehicle and out of the aisle section, a shaft section below the horizontal plane including the axis of the live axle sections and parallel thereto, and gearing connecting the shaft section with the drive shaft and differential gearing.



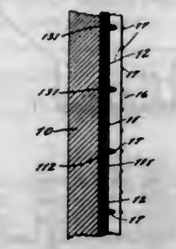
1,695,297. PERIODICAL HOLDER. KARL SCHACHTER, Dorchester, Mass. Filed Jan. 16, 1928. Serial No. 247,237. 10 Claims. (Cl. 129—36.)



1. A periodical holder comprising a pair of normally parallel clamping members each formed in telescoping sections, means pivotally connecting adjacent sections of said clamping members at one end, and means releasably connecting the opposite free ends of said clamping members.

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1,695,298. CASING. CHARLES H. SEIFERT, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 13, 1927. Serial No. 183,434. 11 Claims. (Cl. 72—16.)



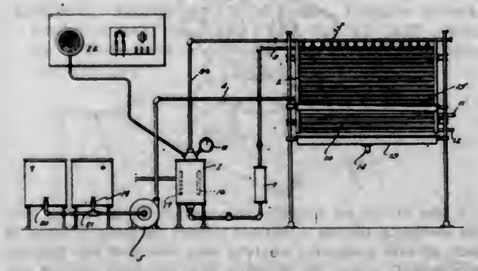
1. A casing comprising a plurality of rectangular panel plates, channel members located on opposite sides of said panel plates and overlapping the joints therebetween, channel members on each side of said plates extending in different directions and means for securing said channel members together and clamping them against opposite sides of said panel plates.

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1,695,299. [WITHDRAWN.]

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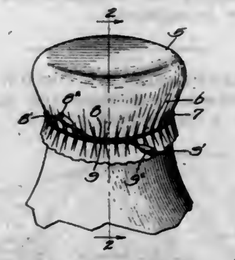
1,695,300. METHOD OF PASTEURIZING MILK. JOHN O. TEMPLETON, Detroit, Mich., assignor to Electropure Corporation, Detroit, Mich., a Corporation of Delaware. Filed Mar. 13, 1925. Serial No. 15,399. 6 Claims. (Cl. 99—15.)



1. In a method of treating milk in which the milk is to be passed between electrodes of an electric circuit to heat the same to a predetermined degree, the step consisting in passing a fluid between the said electrodes having an electrical conductivity approximately equal to that of the milk, for such period of time that the fluid rises to the predetermined temperature to which the milk is to be raised as it passes from the electrode, and then introducing the milk into the system.

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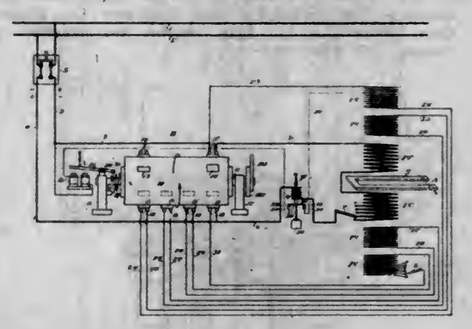
1,695,301. BOTTLE CLOSURE. OLOF N. TEVANDER, Chicago, Ill. Filed Mar. 28, 1928. Serial No. 265,270. 6 Claims. (Cl. 215—96.)



6. A bottle whose neck is externally enlarged at the mouth of the bottle; in combination with a skirted cap placed over the mouth of the bottle and about the bottle neck; and a split ring of wire having a coating of tin or the like substantially throughout its length and tightly contracted about the skirt of the cap and bottle neck and having mutually lapping portions extending circumferentially of the ring and terminating in an end that is free of the cap skirt, the tin or the like upon parts of said mutually lapping portions being fluxed together to hold the ring contracted, said coating of tin or the like being enlarged at said end of the wire to form a knob by which the wire may be grasped to loosen the ring.

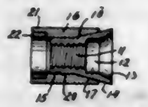
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1,695,302. ELECTRIC HEATER. FRANK W. THOMPSON, West Haven, Conn. Filed Apr. 12, 1922. Serial No. 551,864. 40 Claims. (Cl. 219—11.)



1. An electrode for electric heaters comprising a block of conducting material of higher resistivity than that of an article to be heated and having a face shaped to contact with such article, and a strip of material of lower resistivity than that of the block, said strip overlying and contacting with one side of said block but cut away from the face whereby it is out of contact with the article to be heated.

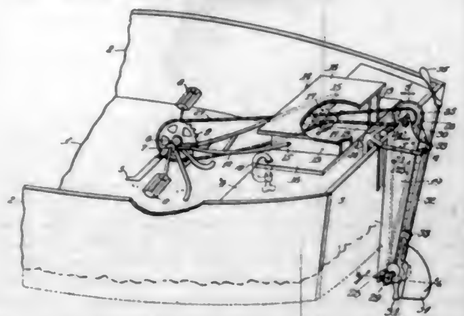
1,695,303. ANCHOR. CHARLES C. TOMKINSON, Plainfield, N. J., assignor to John Edward Ogden, Mountainville, N. Y. Filed Feb. 11, 1926. Serial No. 87,550. 14 Claims. (Cl. 72—105.)



7. An anchor comprising an expanding member, a ductile sleeve mounted thereon and extending beyond one end thereof, and a ring within the extended portion of the sleeve for preventing the intrusion of the metal thereof when the sleeve is expanded.

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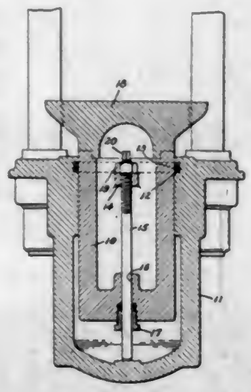
1,695,304. BOAT-PROPELLING DEVICE. CHARLES P. TURNER, Mishawaka, Ind. Filed Aug. 23, 1926. Serial No. 130,815. 8 Claims. (Cl. 115—25.)



1. In a foot operable boat propelling device, the combination with a seat, of a pedal assembly in front of said seat and having a supporting stand to rest on the bottom of the boat forward to said seat, a brace connecting the stand to and maintaining it spaced from said seat, said brace having a fork end at said seat and engaging over pins carried by the seat for releasably connecting the brace thereto, and a propelling mechanism to the rear of said seat and connected with the pedal assembly for operation thereby.

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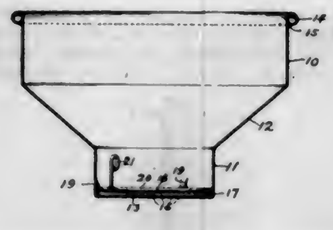
1,695,305. RAM. CHARLES B. UPTON, Piqua, Ohio, assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Filed Oct. 20, 1926. Serial No. 142,955. 3 Claims. (Cl. 138—10.)



1. A ram comprising an open-ended cylinder, a piston reciprocating in and closing the open end of the cylinder, the cylinder having an internal peripheral groove closely adjacent its open end, packing means in said groove acting against the piston to seal the cylinder, a limit rod threaded through and carried by the piston and engageable with the inner end of the cylinder to limit the inward movement of the piston, the rod being adjustable to various extents through the piston by rotation, whereby the rod may be set to limit the normal piston movement inwardly before it uncovers and exposes said groove, and may also be adjusted to permit further inward movement of the piston sufficient to uncover and expose the groove when renewal of the packing means therein is desired, and a packing device acting between the rod and piston at a point located between the threaded connection of the rod and piston and the inner end of the piston beyond the range of the threads of the rod, whereby the packing device will be uninfluenced by the threads of the rod as the rod moves through the piston sufficiently to change the limit for the inward movement of the piston.

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1,695,306. MILK STRAINER. LAWRENCE F. WIEMER, Burlington, Wis. Filed Jan. 12, 1925. Serial No. 1,896. 2 Claims. (Cl. 210—155.)



2. A milk strainer the body of which is constituted of a tubular member reduced at its lower end and provided with an integral perforated bottom and inward projections in the wall of the reduced end constructed as a unit, a perforated straining disc notched at its periphery to permit the disc to pass over the said projections, and a spring loop engaging under such projections to cause the disc to press a straining cloth against the bottom.

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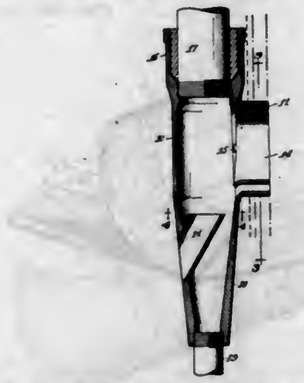
1,695,307. CHRISTMAS-TREE ORNAMENT. EDWIN BIRD WILSON, Forest Hills, N. Y., assignor to Design Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 29, 1927. Serial No. 209,282. 6 Claims. (Cl. 240—10.)



4. An article of manufacture comprising a pair of profile elements having a cut-out center portion, notches in each of said elements, whereby said elements are mutally interlocked, means for securing said elements against relative angular displacement and notches in the inner edge of said cut-out portion for holding a lamp socket.



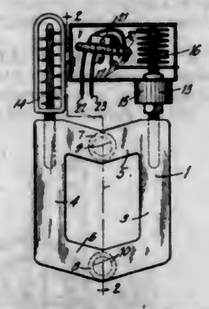
1,695,308. GAS VENT FOR GAS STOVES. FRANK E. WILT, Zanesville, Ohio. Filed Mar. 17, 1927. Serial No. 176,132. 2 Claims. (Cl. 126—307.)



1. An appliance of the class set forth, consisting of a tubular body having a lateral nipple at a point between its ends adapted for setting in the wall of a building to receive the gas-discharge pipe and also provided with an interiorly tapering depending leg or branch adapted at its lower end to be connected to a depending discharge-pipe whose interior diameter is at least equal to the diameter of the lower, tapered end of said leg to thus avoid forming an interior shoulder.

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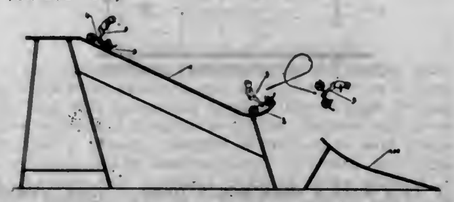
1,695,309. AUTOMATIC TEMPERATURE REGULATOR. JOHN H. P. WOOD, Albany, N. Y. Filed Nov. 19, 1927. Serial No. 234,441. 5 Claims. (Cl. 236—32.)



2. A thermostat support comprising a hollow, metal ring having openings in oppositely disposed portions thereof providing an entrance and an exit for water circulated through said ring, and having spaced openings adjacent said water entrance adapted to receive a thermostat and a calibrating thermometer therefor.

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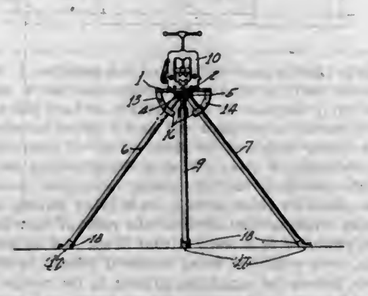
1,695,310. SOMERSAULTING TOY. PHILIPP WÜSTENDÖRFER, Furth, Germany. Filed Oct. 11, 1927. Serial No. 225,465, and in Germany May 4, 1927. 2 Claims. (Cl. 104—54.)



1. In a toy of the character set forth, in combination, an inclined, interrupted runway, comprising a main section and a runout section, a toy figure adapted to slide down said runway, including a trigger-controlled power device, and a releaser member on said main runway section for cooperation with said power device for sudden release thereof for causing the said toy figure to execute a complete backward somersault during its passage from the main section of the runway to the run-out section.

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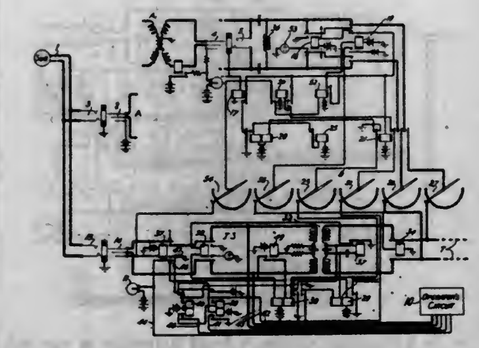
1,695,311. PIPE-VISE STAND. LEE C. YOUNG, St. Louis, Mo., assignor, by mesne assignments, to Western Wire Products Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 23, 1925. Serial No. 58,098. 4 Claims. (Cl. 81—41.)



2. In a stand for pipe-vises and the like, a head in the form of a flat plate, a plurality of supporting-legs pivotally attached at an end to and upon the under face of the head for swingable movement, the points of attachment of the legs to the head being spaced inwardly from the margin of the head, and bracket arms depending from the margin of the head for engagement by the legs for reinforcingly bracing the head.

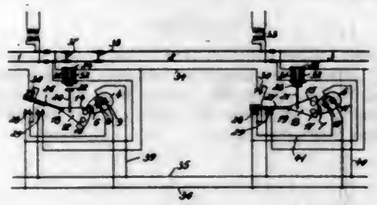
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1,695,312. TELEPHONE SYSTEM. HENRY H. ABBOTT, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 20, 1927. Serial No. 185,242. 7 Claims. (Cl. 179—27.)



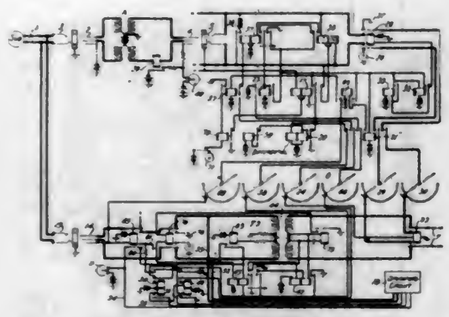
6. In a telephone system, a trunk accessible at one end from a first position and terminating at the same end at a second position and at the other end at a third position, means for establishing a telephonic connection from the first position to the third position over said trunk, and means for establishing a telephonic connection from the third position to the second position over said trunk and for disabling said first mentioned telephonic connection.

1,695,313. AUTOMATIC BLOCK SIGNAL SYSTEM. HERMANN ARNDT, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Mar. 1, 1927, Serial No. 171,772, and in Germany Feb. 22, 1926. 5 Claims. (Cl. 246—39.)



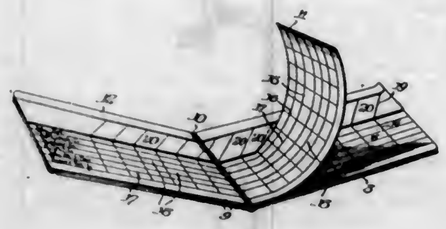
1. In a block signal system, in combination a railroad track electrically divided into independent block sections, a signal lamp disposed at the entrance of each block and a spectacle device carrying a red and a green roundel, and being movably disposed to place either of said roundels before the lamp, a relay for each block having an armature for operating the pertaining spectacle device, to clear or block its track section, said relay having a main energizing winding connected to the rails of that block to be short circuited by a train in that block, and an auxiliary winding, both windings being required jointly to energize the relay, means for supplying current to the relays, signal lamps and to the rail section of each block, and means for connecting the auxiliary winding of the relay of the block signal about to be cleared in series with the signal lamp of the next block entered by the train when the red roundel of that next block appears before its lamp, to complete the energization of said relay, so that even when the first-named block is cleared by the train, the signal clearance of that first block is initiated by and rendered dependent from the correct blocking signal position of the newly occupied block.

1,695,314. TELEPHONE SYSTEM. HENRY M. BASCOM, Brooklyn, and HENRY H. ABBOTT, New York, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 20, 1927. Serial No. 185,241. 9 Claims. (Cl. 179—27.)



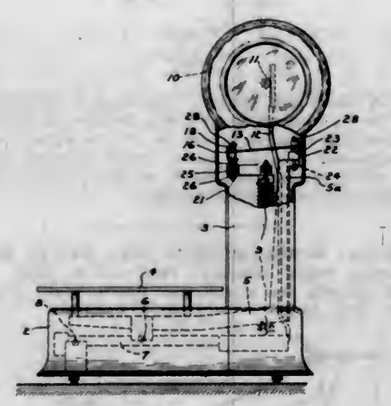
8. In a telephone system, a trunk accessible at one end from a first position and terminating at the same end at a second position and at the other end at a third position, means for establishing a telephonic connection from the first to the second position and from the first to the third position, a subscriber's line, means for connecting said subscriber's line to said trunk at the second position and preventing telephonic connection to the second position over the trunk, and means for reestablishing telephonic connection to the second position over said trunk from the third position only.

1,695,315. BOOKLET. MAX A. BERNS, Chicago, Ill. Filed June 26, 1926. Serial No. 118,695. 1 Claim. (Cl. 281—15.)



A book comprising a plurality of pages, each page being perforated in a longitudinal direction whereby the said page is divided into upper and lower sections, the said lower section having horizontal and vertical lines thereon whereby rows of spaces are formed in each direction on said page, and the upper section having lines thereon separating the said section in spaces adapted to receive headings, the said rows of vertical spaces in the lower section being in register with said spaces formed in said upper section, the said sheets being bound centrally thereof whereby when said sections are separated and turned the said headings are in register with the rows of spaces on adjacent pages, the said sheets being adapted to remain permanently in place in the said book.

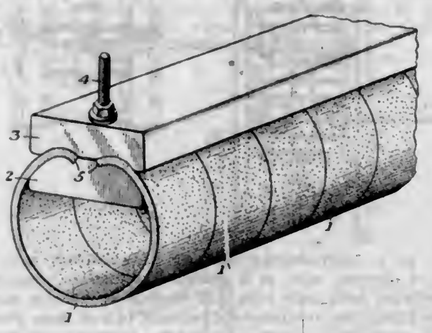
1,695,316. CHECK LINK FOR SCALES. ROBERT J. BURKE, Pittsburgh, Pa., assignor to Lincoln Scale Corporation, Pittsburgh, Pa., a Corporation of Delaware. Filed June 8, 1927. Serial No. 197,399. 6 Claims. (Cl. 265—61.)



1. In a scale, a check arm, a frame, a block pivotally mounted on the frame, and a check link rockable on the block.

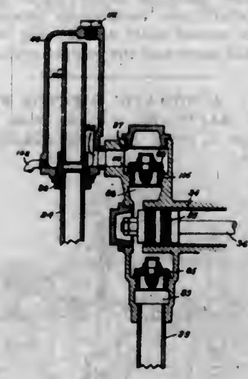


1,695,317. CORK FACING FOR ROLLS. HERMAN F. BUSCH, Millvale, Pa., assignor to Armstrong Cork Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1927. Serial No. 165,002. 7 Claims. (Cl. 19—143.)



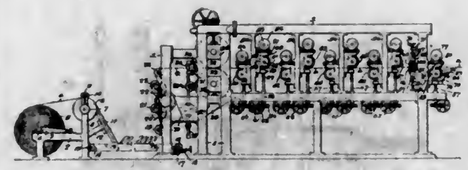
1. A preformed strip of compressed artificial cork for covering a roll, having its ends curled so that its end edges will lie snugly against the face of the roll to be covered.

1,695,318. PUMPING APPARATUS. GEORGE A. BUVINGER and CLARENCE WARNER, Dayton, Ohio, assignors to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Original application filed Nov. 18, 1921, Serial No. 516,159. Divided and this application filed Mar. 2, 1923. Serial No. 622,462. 4 Claims. (Cl. 103—203.)



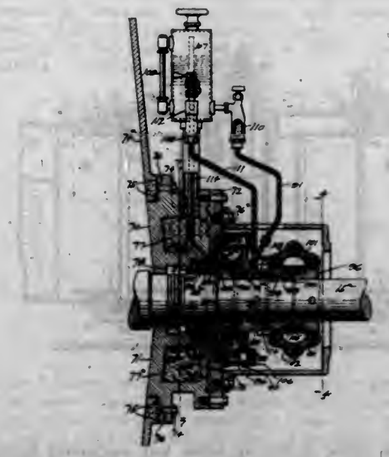
1. In combination, a pump including a pumping chamber, a discharge chamber, and a wall between said chambers, said wall having an opening therethrough for providing permanent intercommunication between the chambers, and a priming chamber located above said pumping chamber and in communication therewith, said priming chamber and discharge chamber being adapted to contain sufficient quantity of liquid for priming said pumping chamber.

1,695,319. COATING MACHINE. LYNN B. CASE, New Brunswick, N. J., assignor to John Waldron Corporation, New Brunswick, N. J., a Corporation of New Jersey. Filed Feb. 10, 1926. Serial No. 87,392. 13 Claims. (Cl. 91—23.)



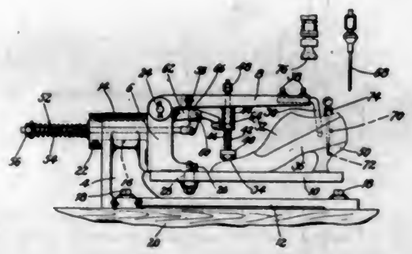
1. In a machine for coating web material, the combination of a coating head comprising a spray nozzle for applying a coating preparation to the surface of the material; means for distributing the coating reparation evenly over the surface of the material comprising a pair of cooperating rolls between which the material passes; and means for applying a finish to the coated surface of the material, comprising a series of smooth face rolls adapted to be rotated in engagement with the surface of the material, some of said rolls being rotated in a manner to produce relative movement between the faces of these rolls and the surface of the material.

1,695,320. STUFFING BOX OR SEALING MEANS FOR COMPRESSORS AND THE LIKE. WILLIS H. CARRIER, Essex Fells, N. J., assignor to Carrier Engineering Corporation, Newark, N. J. Original application filed Apr. 5, 1921, Serial No. 458,679. Divided and this application filed Jan. 9, 1926. Serial No. 80,384. 10 Claims. (Cl. 286—9.)



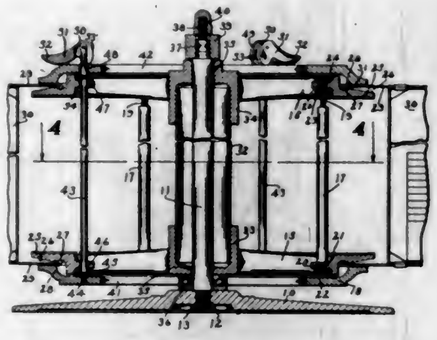
1. The combination with a fluid compressor having a rotary shaft extending through an opening in the compressor casing, of a valve and valve seat which surround said shaft and cooperate when the valve is seated to form a closure for said shaft opening, mechanism for holding said valve and valve seat out of contact when the compressor is running, and an impeller which rotates with said shaft and maintains a circulation of sealing liquid between said valve and valve seat and forms a liquid seal for said shaft opening when the compressor is running.

1,695,321. WORK-HOLDING DEVICE. CHARLES E. CONNER, Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 29, 1924. Serial No. 716,672. 11 Claims. (Cl. 12—125.)



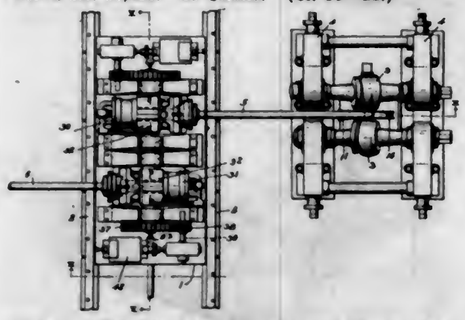
1. In a device of the class described, a stationary support, a member carried by the support for holding a shoe in position for the assembling of a heel therewith, a second member for holding the heel in place upon the shoe, said members being movable in unison to reposition the assembled shoe and heel for the performance of a subsequent operation thereon, and yielding means for urging one of said members toward the other to clamp the heel to the shoe.

1,695,322. INDEX OR FILE. WILLIAM H. DAY, East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed July 27, 1925. Serial No. 46,337. 16 Claims. (Cl. 40—72.)



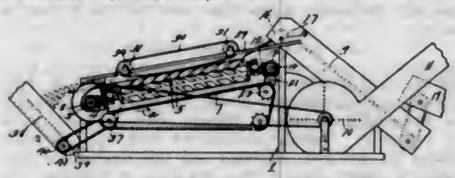
5. In an index or file, an index leaf supporting frame comprising an upper supporting member, a lower supporting member, said members being connected together and cooperating to engage a pair of arm-like extensions of an index leaf or the like to support the same, a locking member spaced from and parallel with each of said supporting members, and means connecting said locking members together, said means comprising a rod secured to one of said locking members and loosely passing through the other of said locking members, said rod being controlled by a cam member whereby said locking members are caused to move toward and away from the supporting members respectively adjacent thereto as and for the purpose described.

1,695,323. PIERCING MILL. SAMUEL E. DIESCHER, Pittsburgh, Pa., assignor to S. Diescher & Sons, Pittsburgh, Pa., a Partnership consisting of Samuel E. Diescher and August P. Diescher. Filed Feb. 18, 1926. Serial No. 89,111. 18 Claims. (Cl. 80—13.)



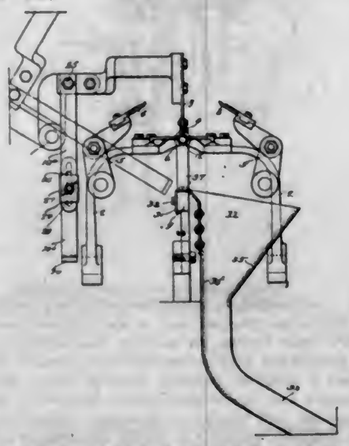
1. In a billet-piercing mill, the combination with a set of piercing rolls, of a plurality of mandrel supports associated with said rolls and each independently movable alternately in opposite directions to and from piercing and stripping positions whereby piercing and stripping operations may be simultaneously conducted.

1,695,324. CORN HUSKER. PHILIP F. DUERR, South Bend, Nebr. Filed Feb. 17, 1926. Serial No. 88,825. 2 Claims. (Cl. 130—5.)



1. A husking machine comprising a frame, a plurality of inclined husking rollers carried by said frame, a transversely disposed drive shaft, gear connections between adjacent rollers, gear connections between alternate rollers and the drive shaft, an endless apron above the rollers, a second shaft, gear connections between one of the rollers and the second shaft and driving connections between the second shaft and the endless apron.

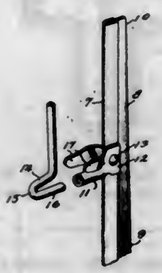
1,695,325. AUTOMATIC EJECTOR FOR BOTTLE-LABELING MACHINES. JOHN EDER, Philadelphia, Pa. Filed Oct. 1, 1927. Serial No. 223,360. 14 Claims. (Cl. 216—54.)



1. In combination with a bottle labeling machine having a bottle supporting anvil, means for placing a label on the bottle, means for wiping the label around the bottle and means for holding the label during the wiping operation; means, operable by the label holding means, for ejecting the bottle from the anvil.

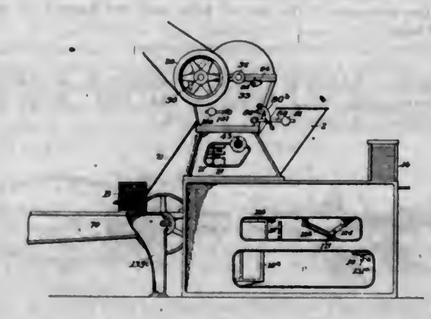


1,695,326. WINDSHIELD CLEANER. FREDERICK G. FOLBERTH and WILLIAM M. FOLBERTH, Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 29, 1924. Serial No. 702,872. 4 Claims. (Cl. 15—253.)



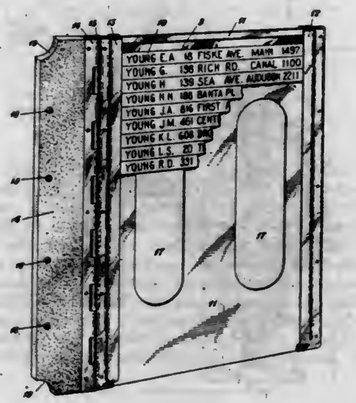
1. A windshield cleaner comprising a cleaner arm having a U-shaped extension vertical to said arm, a cleaner element, a holder for said cleaner element mounted near one end thereof and comprising a sleeve for receiving one leg of said U-shaped extension and projecting between the legs of the latter, and spaced limit stops extending from the holder and coacting with the other leg of said extension for limiting the swing movement of the cleaning element.

1,695,327. MOLDING MACHINE. DAVID C. GOLDSTON, Cambridge Springs, Pa., assignor to Blystone Manufacturing Company, Cambridge Springs, Pa., a Corporation of Pennsylvania. Filed Feb. 7, 1924. Serial No. 691,213. 45 Claims. (Cl. 25—84.)



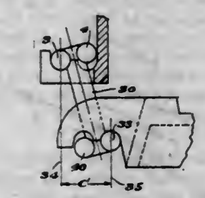
1. A molding machine including a source of material to be molded, a mold chamber, a movable feed box adapted to transfer material from the source to the mold chamber and having a movable closure, means for relatively moving the feed box and mold chamber to bring the feed box into cooperative position with relation to the mold chamber, and means for opening the closure to permit transfer of the material from the feed box to the mold chamber, substantially as described.

1,695,328. ADJUSTABLE REFERENCE BOOK. WALTER A. GORDON, Garden City, and JAMES J. MURPHY and PASCAL PERRONE, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed May 11, 1926. Serial No. 108,378. 3 Claims. (Cl. 129—34.)




3. A leaf for a visible index having channels at each edge thereof, data strips removably mounted in said channels, and a flexible member hinged to one edge of said leaf, said flexible member being adapted to be attached in a holder for a plurality of similar leaves so that the leaves may be readily accessible when it is desired to consult the information inscribed on said data strips.

1,695,329. CAR-COUPLER POSITIONING DEVICE. LESLIE B. GRAHAM, East Chicago, Ind., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed July 6, 1926. Serial No. 120,674. 10 Claims. (Cl. 213—21.)

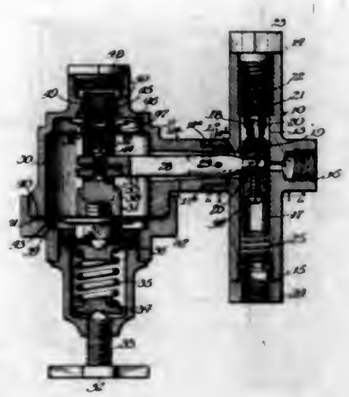


1. In a railway car, the combination of a car part having two pairs of parallel spaced apart journal bearings, a coupler carrier swingingly suspended from said car part by a pair of links, said links having spaced apart parallel trunnions at their upper ends engaging said journal bearings when the device is in normal position, one trunnion of each link moving out of engagement with its bearing when the carrier moves laterally.

1,695,330. FLUID-PRESSURE REGULATOR. PATRICK M. GRANT, Chicago, Ill., assignor of one-half to James G. Gilbert. Filed Feb. 19, 1926. Serial No. 89,313. 5 Claims. (Cl. 50—26.)

1. A liquid pressure regulator comprising a housing having a pressure chamber formed therein, a tubular por-

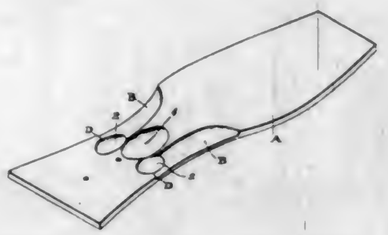
tion detachably connected intermediate its ends to said housing, an elongated valve member mounted in and slidable longitudinally with respect to said tubular portion, valve actuating means mounted in said chamber, and



a lever pivotally mounted intermediate its ends in said housing and co-operable with said actuating means and said valve in a manner to control the movement of the valve at all times according to the movement of said actuating means.

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1,695,331. MANUFACTURE OF SHOES. JOHN B. HADAWAY, Swampscott. Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 22, 1924. Serial No. 701,221. 8 Claims. (Cl. 36—22.)

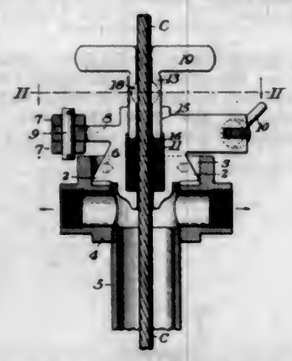


1. A shoe construction comprising an innersole, an upper attached to the innersole, and an outsole, the outsole being recessed locally adjacent to the breast line to relieve pressure between the outsole and parts of the innersole and upper and to prevent distortion of the outsole at the forward portion of the heel seat.

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1,695,332. OIL SAVER FOR OIL WELLS AND PACKING SCREWS THEREFOR. JOSEPH W. HEETER, Butler, Pa. Filed Aug. 15, 1924. Serial No. 732,184. 1 Claim. (Cl. 286—16.)

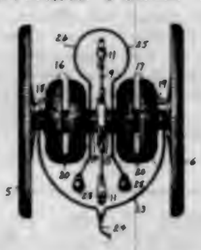
A clamping screw, comprising a pair of separable sections one of which is provided with a substantially circular boss having an opening therethrough for the reception of a cable, the other section having a substantially circular recess therein for reception of the boss whereby the two



sections may be fitted together about a cable, the boss and recess being adapted to permit relative rotation thereof into alignment.

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1,695,333. WHEELED TOY. WYMAN N. HILL, East Hampton, Conn., assignor to The N. N. Hill Brass Co., East Hampton, Conn., a Corporation. Filed May 9, 1928. Serial No. 276,388. 3 Claims. (Cl. 46—45.)



1. A wheeled toy, comprising a pair of wheels mounted upon an axle, a bar connected with said axle so as to turn therewith a figure on each end of the said bar, and an open hoop having leg portions loosely mounted on the axle on opposite sides of the bar connection and arranged for the passage of the bar or bars and the figures on the said bar.

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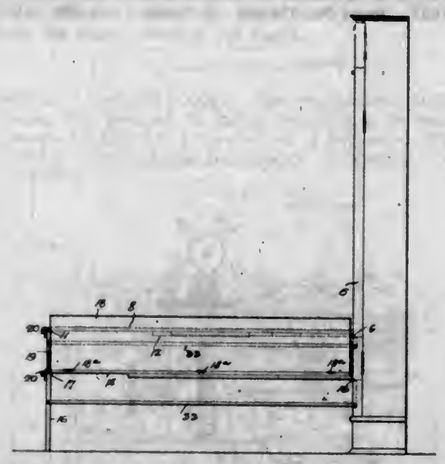
1,695,334. VACUUM TORCH. WATBURN E. JOHNSTON, Minneapolis, Minn. Filed Jan. 14, 1924. Serial No. 686,032. 9 Claims. (Cl. 158—76.)



1. A vacuum torch having an oil passage and a passage for compressed air therein, a discharge member having a recess in its rear end communicating with the oil passage, said torch having an annular recess therein in the rear of said discharge member, a plurality of circumferentially spaced passages of comparatively small diameter communicating with said annular recess, each of said latter passages having an enlarged portion at their onter ends, and a passage of comparatively small diameter extending from the recess in said discharge member to the enlarged portion of each of said latter passages substantially at the rear end of said enlarged portion.



1,695,335. COMBINATION CABINET. FREDERICK B. KAUFMAN, Philadelphia, Pa. Filed Dec. 30, 1925. Serial No. 78,451. 5 Claims. (Cl. 45—51.)



2. The combination with a supporting structure, of a substructure hinged on horizontal hinges to the support and adapted to occupy a vertical position against the face of the supporting structure and in a substantially horizontal position projecting outwardly therefrom, a leg member adapted to support the outer end of said sub-structure when in the horizontal position, and a rod pivotally connected to the said leg member and to the supporting structure whereby the leg member is automatically moved from the dependent position which it occupies when the substructure is elevated to a substantially vertical position supporting the outer end of said sub-structure in the horizontal position and vice versa.

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1,695,336. MICROMETER. GEORGE N. KOHLHAAS, Elmira, N. Y. Filed Mar. 4, 1927. Serial No. 172,898. 11 Claims. (Cl. 33—178.)



1. In combination in a micrometer gage, a tubular body portion having a head with radial guide grooves thereon, a washer having corresponding guide grooves opposing said first mentioned grooves, pins guided in said grooves, means for pressing the washer against the pins, said means comprising a combination lock nut and micrometer thimble, and means for forcing the pins outwardly.

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1,695,337. CARBURIZER. FREDERICK C. LANGENBERG, Watertown, Mass., assignor to E. F. Houghton and Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1927. Serial No. 177,469. 13 Claims. (Cl. 148—30.)

1. A carburizing material having therein an organic oxygen-containing salt of a carburizing oxide and a salt of a carburizing oxide having nitrogen and oxygen in the acid radical.
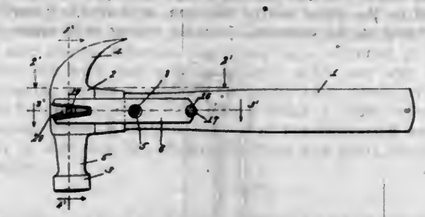
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1,695,338. CARBURIZER. FREDERICK C. LANGENBERG, Watertown, Mass., assignor to E. F. Houghton and Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1927. Serial No. 177,470. 8 Claims. (Cl. 148—30.)

1. A carburizing composition comprising carbonaceous material, energizing material and an organic salt of a metal (other than the alkali or alkaline earth metals).



1,695,339. NAIL-HOLDING ATTACHMENT FOR HAMMERS. ANDREW LOCHHEAD, Oakland, Calif. Filed Mar. 7, 1927. Serial No. 173,389. 3 Claims. (Cl. 145—31.)



3. In means of the character described, a plate having its midpart pivotally secured to one side of the handle of a hammer adjacent the head of the latter, whereby said plate may be rotated 360 degrees in a plane substantially parallel with said handle, opposed ends of said plate spring-pressing against said head and said handle when said plate is disposed in substantially longitudinal parallelism with said handle, one end of said plate adapted for operatively engaging and holding a nail against said head, and the opposite end thereof adapted to engage means on said handle for normally holding said plate against rotation.

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1,695,340. HOSE AND TUBE CLAMP. WILBUR G. MILLER, Los Angeles, Calif. Filed Jan. 17, 1927. Serial No. 161,575. 1 Claim. (Cl. 24—19.)



The clamp set forth comprising a U-shape yoke having a central bridge and an orifice through the bridge, and having legs extending parallel to each other from the ends of said bridge and terminating in crotches; and to disposed said collar entirely within said yoke when the nut is adjusted in one direction; a collar movable edgewise between the legs and adapted to fit upon a nipple-supported compressible tube; a threaded stem fixed to the edge of the collar and extending through the orifice; and a nut on the stem outside said yoke adapted to act upon the yoke to move the stem and collar relative to the crotches, and to compress the tube onto the nipple and between said nipple and the crotches.

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1,695,341. METHOD OF OBTAINING TITANIUM OXIDE. REGINALD HILL MONK, Montreal, Quebec, Canada. Filed July 7, 1926. Serial No. 121,058. 8 Claims. (Cl. 23—202.)

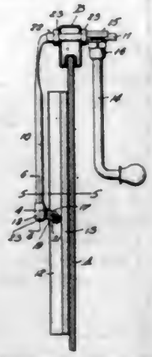
1. The method of converting refractory compounds of titanium after the elimination of impurities and a large portion of the iron content into water soluble sulphates, comprising mixing the comminuted compound with an alkali-metal sulphate and an acid solvent, heating the mixture at a temperature from 120° to 300° C., until a solid cake is formed, cooling and crushing the cake.

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1,695,342. WINDSHIELD WIPER. JOHN R. OISHEI, Buffalo, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y. Filed Mar. 8, 1924. Serial No. 697,883. 1 Claim. (Cl. 15—255.)

In a windshield wiper, a one-piece combined shaft and wiper carrying arm formed from a length of rod bent intermediate its ends to a substantially right angular form, said wiper carrying arm being flattened transversely immediately adjoining the shaft to define and provide an integral

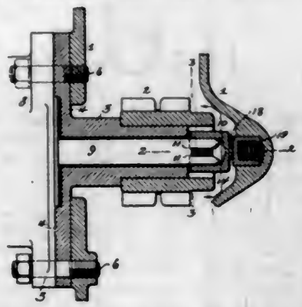
resilient portion, said resilient portion being bowed longitudinally to normally dispose the free end portion of the arm at an acute angle to the shaft, and a wiper element secured to the outer end of the arm, said resilient portion providing spring pressure yieldably urging said wiper ele-



ment against the windshield glass when said shaft is mounted thereon, said shaft being provided with an enlargement immediately adjacent said resilient portion for abutting against its windshield mounting to thereby gage and definitely determine the resilient pressure to be exerted on said wiper element.

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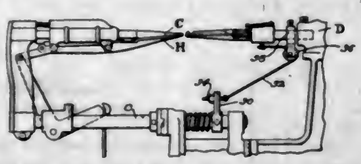
1,695,343. COUPLING. HAROLD S. PIERCE, Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 12, 1926. Serial No. 141,166. 4 Claims. (Cl. 64—100.)



1. The combination of a tubular bearing; a shaft rotatably mounted thereon and having a slotted end; a wheel mounted on the bearing and having a slotted extension projecting beyond the end of the bearing; two coupling plates extending into the slots; and a spring plate mounted between the two coupling plates.

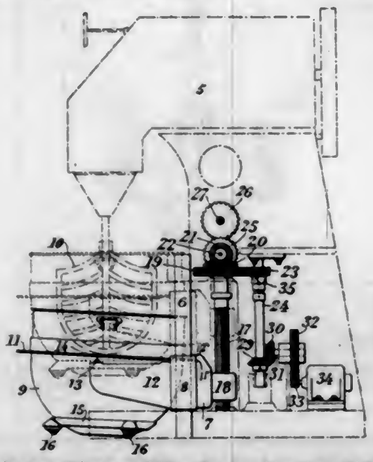
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1,695,344. MACHINE FOR TURNING SHOES. WALTER PROULX, Norridgewock, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 12, 1925, Serial No. 68,585. Renewed Mar. 5, 1928. 12 Claims. (Cl. 12—57.)



1. For use in turning shoes, a tapering forepart form constructed and arranged to expand to increase its angle of taper, and means constantly tending to expand the form.

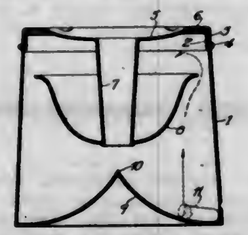
1,695,345. MIXING MACHINE. OTTO ROLAND READ, York, Pa., assignor to Read Machinery Co., Inc., York, Pa., a Corporation of Pennsylvania. Filed June 3, 1927. Serial No. 196,354. 2 Claims. (Cl. 259—107.)



1. In a mixing machine, the combination with a saddle having a projecting shoulder, of a bowl having an annular flange therearound, said bowl being adapted to be tilted while on a floor surface, so that a portion of said flange extends under said shoulder of the saddle, and means for raising said saddle, permitting said bowl to move from said tilted position to a second position wherein it is supported on said saddle.

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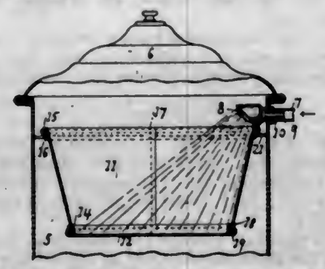
1,695,346. SMOKELESS RECEPTACLE. HENRY AUGUST REESE, Glendale, N. Y., assignor of one-half to Evan S. Webster, Long Island, N. Y. Filed June 21, 1927. Serial No. 200,312. 5 Claims. (Cl. 131—51.)



1. A receptacle of the character described having a cover, a tube leading downward therefrom and a flange within the receptacle engaging said tube and extending upward and outward therefrom.

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1,695,347. COFFEE URN AND BIGGIN. PETER G. ROUSSEAS, Brooklyn, N. Y. Filed July 28, 1927. Serial No. 209,037. 4 Claims. (Cl. 53—3.)



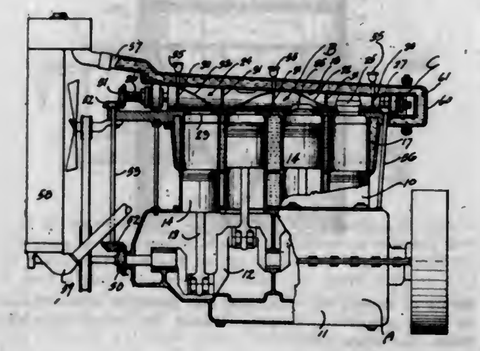
1. In a coffee urn the combination with a boiler having a biggin made of fabric with a substantially flat bottom



suspended therein, a water inlet pipe located on the upper side of the boiler, and a nozzle mounted on the inlet pipe having a perforated angular outlet positioned on one side of the biggin to spray the water downward so as to strike the entire bottom of the biggin.

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1,695,348. ROTARY VALVE. HERBERT SCHEEL, Maplewood, Mo., assignor, by mesne assignments, to Scheel Motors Corporation, a Corporation of Delaware. Filed Oct. 21, 1920. Serial No. 418,564. 7 Claims. (Cl. 123—80.)



1. In an internal combustion engine the combination of a plurality of cylinders and a cylinder head, having a longitudinal seat therein, of a rotary valve disposed in said seat, antifriction means for adjusting said valve to provide and maintain a practically uniform predetermined clearance between said valve and said seat, and means for maintaining said valve at a practically uniform temperature whether said engine is running free or running under varying loads.

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1,695,349. DIRECTION SIGNAL. SIGMOND SCHREIBER, Pittsburgh, Pa. Filed Feb. 29, 1928. Serial No. 257,974. 3 Claims. (Cl. 116—47.)




1. A vehicle direction indicator comprising a casing having an inner end wall, a marginal wall and an outer end wall, a shaft extending axially in the casing and projecting from the outer end wall thereof, bearings for said shaft in said casing against the inner faces of said end walls, one bearing having an arm extending beneath the shaft and formed with a bearing sleeve, a drive shaft extending into said casing through the marginal wall and journaled in the bearing sleeve, intermeshing gears carried by said shafts, direction indicating means carried by the outer end wall, and a hood for the outer end wall and indicating means carrird by the outer end portion of the first-mentioned shaft and formed with a sight opening through which a selected portion of the indicating means may be disclosed by rotating the hood and shaft carrying the hood.

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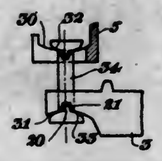
1,695,350. SAFETY CLAMP. GEORGE BARTRAM SHIVELY, Waynesboro, Pa. Filed Sept. 12, 1927. Serial No. 219,058. 3 Claims. (Cl. 24—3.)



1. A device of the kind described comprising a bill folder, an elongated strip attached thereto, a slidable clamp adapted to be positioned around said strip between the points at which it is attached to the bill folder and adapted to slide upon said strip, the clamp having an elongated upwardly extending portion having attached thereto means for securing the device upon the clothing of a person, substantially as set forth.

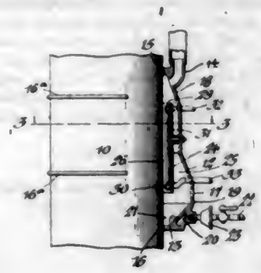
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1,695,351. POSITIONING DEVICE FOR RAILWAY-CAR COUPLERS. ARTHUR E. SMALL, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Original application filed June 16, 1926, Serial No. 116,407. Divided and this application filed Feb. 2, 1928. Serial No. 251,311. 4 Claims. (Cl. 213—21.)



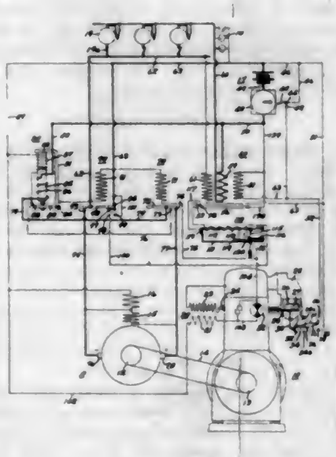
1. In a railway car; the combination of a car part element, a coupler carrier element, and a pair of links swingably suspending the opposite ends of the carrier thereto, eccentric engaging surfaces between one of said links and said elements, respectively, extending on both sides of the normal contacting lines between the respective parts whereby upon lateral swing of the links in either direction the engaging surfaces roll upon each other and gradually shift the contacting lines therebetween.

1,695,352. HEATER FOR DOMESTIC BOILERS. THOMAS H. STAMP, Buffalo, N. Y. Filed June 21, 1926. Serial No. 117,343. 2 Claims. (Cl. 122—20.)



1. A heater of the character described, comprising a jacket open at its inner side and having bearing faces conforming to a water boiler, the jacket being provided in its base with a burner and having air inlets in its lower portion above the burner, and an imperforate upright partition arranged in the jacket about midway between its outer wall and its bearing faces, forming an air passage between the jacket and the partition, the lower end of the latter terminating near said air inlets.

1,695,353. ELECTRICAL GENERATING SYSTEM. FRANK F. STARR, Dayton, Ohio, assignor to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Nov. 16, 1925. Serial No. 69,311. 6 Claims. (Cl. 290—30.)



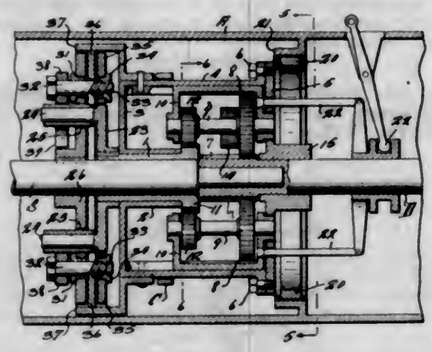
3. A power plant comprising, in combination, an internal-combustion engine, and a single temperature responsive means for controlling the engine fuel mixture proportions and for causing the engine to start and stop automatically in response to engine temperature.

1,695,354. BOILER-COMPOUND DISSOLVER. JOHN A. THOMASON, Atlanta, Ga. Filed June 7, 1927. Serial No. 197,195. 9 Claims. (Cl. 210—37.)

1. A boiler compound dissolver, comprising a container having a water inlet at its upper end, a steam inlet at a lower point, and an outlet for the dissolved compound, said container having arranged therein one above the other a series of separate and removable sections or compartments to receive the compound and provided with strainer or filter plates and arranged below the water inlet and above the steam inlet.



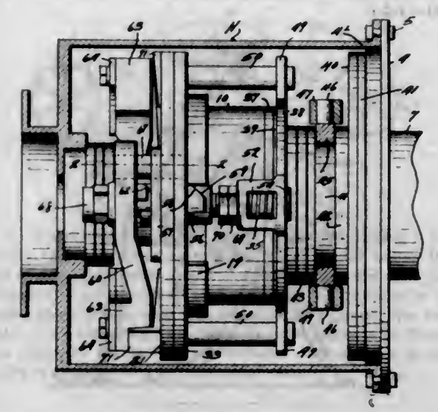
1,695,355. CLUTCH MECHANISM. WILLIAM ISIAH WHEELER, Scottville, Ill. Original application filed Jan. 2, 1923, Serial No. 610,249. Divided and this application filed Nov. 21, 1925. Serial No. 70,590. 3 Claims. (Cl. 192—105.)



1. In combination with a plurality of relatively rotatable members, one of said members being provided with a slot, a shaft carried by a second member and disposed through the slot of the first member, an articulated rod operatively connecting the shaft to the first named member, a head provided with a bill engageable with the shaft, means associated with the head for rocking the same in one direction under centrifugal force, another member supported for rotation independently of the first named rotatable members and including a part extending between said first named rotatable member and a third of said relatively rotatable members, and means operating upon such rocking movement of the head to bring the first and third of said rotatable members and the part of the last member extending therebetween into clutching engagement.

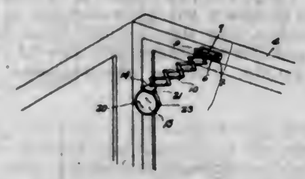


1,695,356. TRANSMISSION MECHANISM. WILLIAM I. WHEELER, Scottville, Ill. Filed July 26, 1927. Serial No. 208,621. 7 Claims. (Cl. 74—34.)



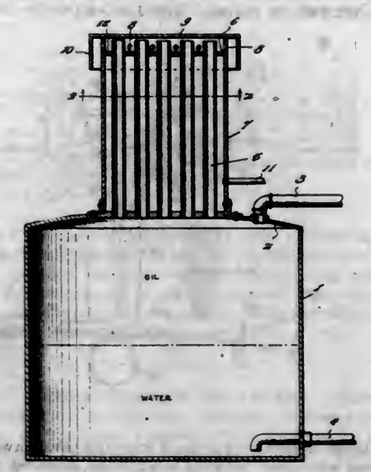
1. A transmission mechanism comprising, in combination, a drive element, a driven element, a member free to rotate with respect to the drive and driven elements, a gear assembly associated with the drive element and the member to rotate the driven element at a reduction when said member is held against rotation, an automatic clutch operable under centrifugal action to cause said member and the driven element to have direct rotation, a braking means for said member, and an operative connection between the braking means and the clutch, shifting the braking means to inoperative position when the clutching means is operative, said means for operating the clutch also operating under torque to release the clutching means and to applying the braking means.

1,695,357. AUTOMOBILE ANTIGLARE SHIELD. IRA L. WORDEN, Wichita, Kans. Filed Mar. 19, 1927. Serial No. 176,707. 1 Claim. (Cl. 296—97.)



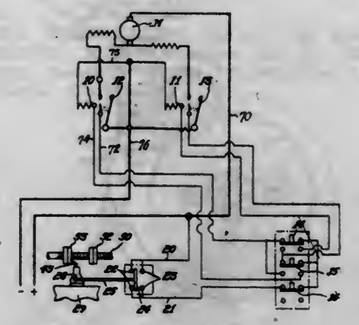
An automobile anti-glare shield comprising a fixed horizontal bracket having spaced projections, a horizontal pivot supoprted by the said projections, a clamp consisting of a plate doubled on itself to form a bearing sleeve and to provide a pair of spaced ears, the sleeve being arranged on the said pivot to permit a vertical swinging movement of the clamp and the latter being of a width less than the space between the projections to permit sliding movement of the clamp on the pivot, a lazy tong supporting member normally operating in a horizontal plane and having one end pivoted between the said ears for lateral swinging movement, the outer end of the lazy tong supporting member being free, a shield normally arranged in a vertical plane and depending from the free end of the lazy tong supporting member and provided at its top with a transverse pivot, and a clamp consisting of a plate doubled on itself to provide a bearing sleeve and a pair of ears, the bearing sleeve of the second clamp receiving the shield and the ears of the said second clamp receiving and pivoted to the free end of the lazy tong supporting member.

1,695,358. OIL-STORAGE TANK. BOYD K. APPLEMAN, Beaumont, Tex. Filed May 13, 1927. Serial No. 191,213. 3 Claims. (Cl. 220—85.)



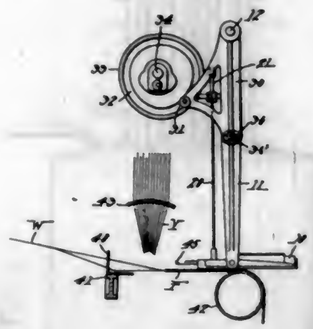

1. Means for storing oil comprising a tank, tubes fitted in the top of the tank and rising therefrom, and a water-jacketing housing mounted on the top of the tank around said tubes in spaced relation thereto, said housing being closed to the tank and provided with vent and overflow openings adjacent its upper end below the upper ends of the tubes.

1,695,359. MOTOR-CONTROL MECHANISM FOR MACHINE TOOLS. STANLEY W. BATH, Worcester, Mass., assignor, by mesne assignments, to John Bath. Filed Dec. 14, 1925. Serial No. 75,226. 11 Claims. (Cl. 172—239.)



1. In a machine tool having a member movable in opposite directions, and having a reversible electric motor to actuate said member, with normal control circuits therefor, the combination of a motor-controlled mechanism comprising control means effective to break a control circuit of the motor at either end of a predetermined range of travel of said member, and means responsive to said control means to break a circuit of said motor at a second point, said control means thereafter restoring said control circuit at the first break and thereby permitting subsequent manual control of said motor.

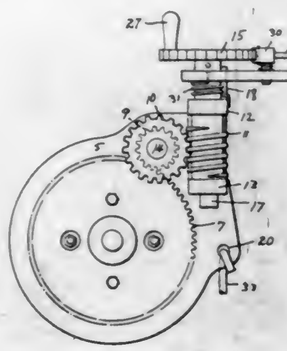
1,695,360. ACTUATING AND SUPPORTING MECHANISM FOR THE KNOTTING TABLES OF ORIENTAL-RUG LOOMS. MARIUS A. BAUER, Worcester, Mass., assignor to M. J. Whittall Associates, a Voluntary Association of Massachusetts. Filed May 18, 1927. Serial No. 192,446. 4 Claims. (Cl. 139—4.)



1. In an oriental rug loom, a knotting table having yarn severing and yarn twisting mechanism mounted thereon, said yarn severing mechanism operating prior to the operation of the yarn twisting mechanism, a rock shaft, a plurality of supporting arms depending from said rock shaft and to which said table is pivotally connected, a cam shaft rotatably mounted parallel to and at the rear of said rock shaft, cams on said cam shaft, and operating connections between each cam and the associated supporting arm by which said table is oscillated.

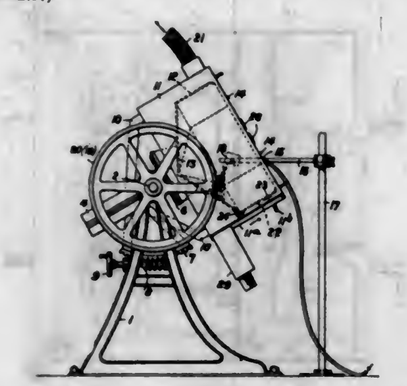
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1,695,361. WARP LET-OFF MECHANISM FOR LOOMS. JOHN BERNINI, Allentown, Pa. Filed Oct. 18, 1927. Serial No. 226,902. 3 Claims. (Cl. 139—110.)



1. A mechanism of the class described, including, in combination, a gear adapted to be secured to a warp beam, an annular member on the gear, a ring about the annular member, a pinion meshing with the gear, a lever, means pivotally mounting the lever on the ring, means for rotating the pinion by oscillation of the lever, spring means associated with the lever for holding it in a predetermined position, a link engaged with the ring, a lever, means for pivotally mounting the second mentioned lever at one end of the frame of a loom, and spring tension means engaged with the second mentioned lever at an angle thereto.

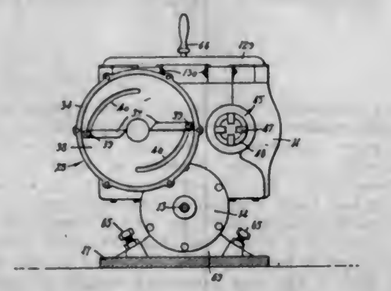
1,695,362. SEPARATING APPARATUS. CARL BOURGES, Hagen, Germany, assignor to Metallisator Berlin A. G., Berlin, Germany. Filed Feb. 24, 1927, Serial No. 170,723, and in Germany Apr. 9, 1926. 2 Claims. (Cl. 91—1.2.)



1. Apparatus for the treatment of a plurality of pieces of work by means of a jet of spraying bodies mixed with gases under pressure, comprising an obliquely supported rotatable container for the articles to be treated, said rotatable container being open at the upper end, a non-rotatable casing co-axial with and enclosing said rotatable container, means for varying the inclination of the common axis of said container and said casing, a spraying nozzle for discharging at the articles to be treated a jet of gases under pressure mixed with spraying bodies, a cover closing the upper end of said non-rotatable casing, said cover being formed with an aperture through which the spraying nozzle can be introduced, and means for adjusting the spraying nozzle at different inclinations to the bottom surface of the rotatable container so that the spraying nozzle can send out its jets as perpendicularly as possible to the parts of the rotatable container upon which they impinge.

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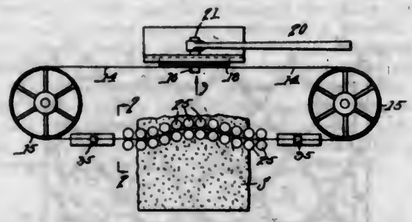
1,695,363. PIPE CUTTER. GUY M. CAUSEY, Salem, Oreg., and MONROE E. MILLER, Washington, D. C. Original application filed Mar. 1, 1926, Serial No. 91,524. Divided and this application filed July 10, 1926. Serial No. 121,675. 1 Claim. (Cl. 164—60.)



A pipe cutter comprising a casing, a tubular shaft mounted in said casing, a sleeve rotatable on said shaft, cooperable members on the outer ends of the shaft and sleeve on the exterior of the casing, a cutting member slidable radially in one of said members, the other member having a spiral slot engaging said cutting member to move the cutting member radially by the relative rotation of said shaft and sleeve, and gearing within the casing connecting said shaft and sleeve to rotate them at different relative speeds.



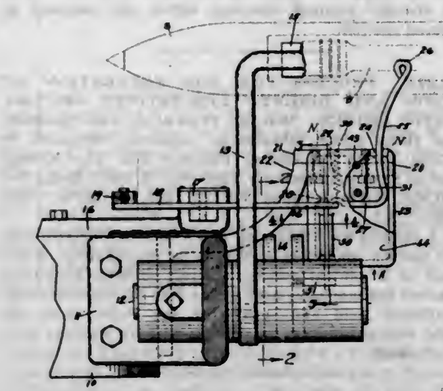
1,695,364. STONE-SAWING MACHINE. ELORY A. CHASE, Northfield, Vt. Filed Feb. 4, 1927. Serial No. 165,959. 5 Claims. (Cl. 125—16.)



1. A machine for sawing stone blocks comprising a relatively thin saw-plate of substantially greater width than the depth of the saw cut, means to reciprocate said plate lengthwise of the cut, and a plurality of guide rolls disposed at each side of said saw plate and adjacent the work, said rolls engaging the sides of said plate and forcing the plate to follow a predetermined curved path as said plate is reciprocated between said rolls.

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1,695,365. SIDE-SLIPPING WEFT DETECTOR FOR LOOMS. ALBERT CEDERLUND, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 30, 1926. Serial No. 125,853. 4 Claims. (Cl. 139—281.)

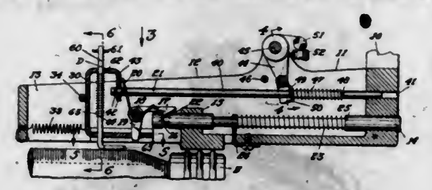


1. In a weft detector for looms having a support and a detector movable longitudinally in the support when sufficient weft is present and movable angularly with respect to the support when insufficient weft is present, an actuator having a regular movement on detecting beats of the loom, a controller carried by the support and operatively connected to the detector to be moved by the latter in a direction substantially parallel with the motion of the detector on non-indicating detecting beats of the loom and having a portion thereof normally operatively related to the actuator, said actuator having a portion extending laterally on both side of the cooperating part of the controller, and means to vary the position of the support and the detector, the controller and actuator maintaining operative relationship throughout a limited range of adjustment of the support.

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1,695,366. WEFT DETECTOR IN LOOM TRANSFERRER. ALBERT CEDERLUND, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1927. Serial No. 232,432. 6 Claims. (Cl. 139—271.)

1. In weft detecting mechanism for a loom having a regularly movable transferrer arm, an indicating plunger slidably mounted on the arm, a latch to hold the plunger in non-indicating position and yielding means to move the plunger to indicating position when the latch is moved to releasing position, a weft detector, and means to guide said weft detector on the transferrer arm to move in a direction substantially parallel to the surface being detected at the time of indication of weft exhaustion, said means maintaining the detector in substantially the same angular position relatively to the surface being detected as the detector moves along the surface being detected, said means moving into engagement with the latch when the detector moves to indicate exhaustion of weft.



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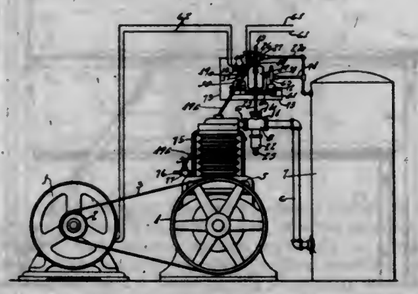
1,695,367. METAL-TESTING APPARATUS. GEORGE B. COLLINS, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 5, 1923. Serial No. 666,669. 7 Claims. (Cl. 73—51.)



7. Apparatus for testing strip metal comprising a base having a groove extending longitudinally thereof, oppositely disposed jaw members slidably mounted in said groove, means for securing an end of the metal strip to be tested to each of the slidable jaw members, and an eccentric cooperating with one of the slidable jaw members for effecting a limited and regular reciprocating movement of said member.

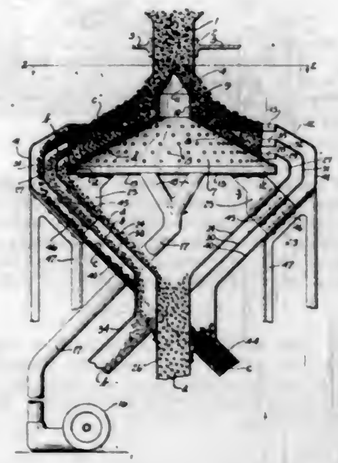
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1,695,368. CONTROLLING MECHANISM FOR COMPRESSORS. RUDOLPH CONRADER, Erie, Pa. Filed Dec. 3, 1923, Serial No. 678,369. Renewed May 11, 1928. 12 Claims. (Cl. 230—4.)



1. In a controlling mechanism for compressors, the combination of a compressor; an electric motor driving the compressor; an unloader for the compressor; an electric line supplying current to the motor; a regulator sensitive to pumped fluid controlling the unloader; and means acting independently of the regulator for actuating the unloader with a stoppage of the current in the line connected with the electric motor.

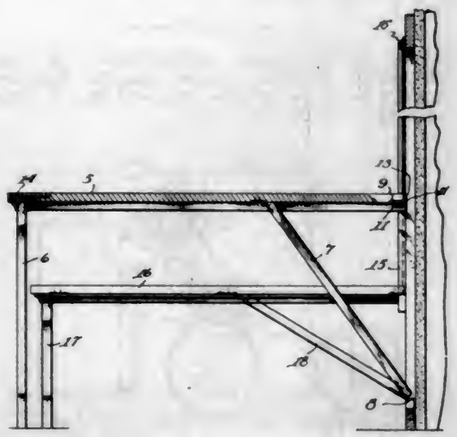
1,695,369. MECHANISM AND PROCESS FOR SEPARATING INTERMIXED DIVIDED MATERIALS. KENNETH DAVIS, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 8, 1921. Serial No. 520,932. 37 Claims. (Cl. 209—466.)



1. A dry separator for separating intermixed divided materials including in combination an annular, non-rotatable support, means tending to move the intermixed materials on the support transversely thereof for stratifying them, and means for separately receiving the separated materials from the strata.

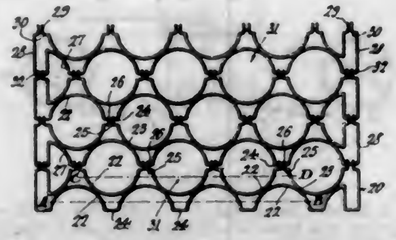
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1,695,370. CONCEALABLE FURNISHINGS. WALTER C. FAIN, Norfolk, Va. Filed Aug. 3, 1925. Serial No. 47,955. 3 Claims. (Cl. 45—51.)



1. The combination with a foldable board, and a grooved support for the same, of a brace iron extending continuously across the board and having pintles at its ends projecting laterally beyond the board and adapted to slide in said grooves, and means attaching said brace iron to one end of said board in such manner that said board may shrink and expand without resistance from said brace iron.

1,695,371. SCREEN. ANDREW L. FELDE, Barnesville, Minn. Filed Mar. 31, 1927. Serial No. 179,936. 2 Claims. (Cl. 209—84.)



1. A sorting belt of the class described, comprising transverse members each made up of two lines of semicircular parts, the semicircular parts in each line of each member being disposed in staggered relation to the semicircular parts of the other line of the same member, the semicircular parts of the lines having tangential contact and being joined together at their places of tangential contact, there being connections that unite the semicircular parts in each line, and means for uniting the connections in one line of each member with the connections of the other line of an adjoining member hingedly, to permit swinging movement between said members and to form circular grading openings which are disposed in staggered relation.

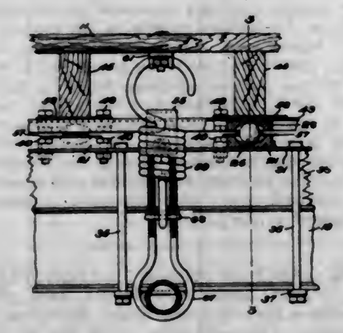
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1,695,372. PROCESS FOR THE SEPARATION OF MONO- AND DIALKYL DERIVATIVES OF AROMATIC AMINES. WALTER FLEMMING, Ludwigshafen, and HANS KLEIN, Mannheim, Germany, assignors to Silesia Verein Chemischer Fabriken Ida- und Marienhuette, Sarrau, Germany. Filed Nov. 3, 1927, Serial No. 230,923, and in Germany Nov. 19, 1926. 3 Claims. (Cl. 260—128.)

1. A process for separating mono- and di-alkylated aromatic amines consisting in dissolving the mixture of the amines in a neutral solvent, adding phthalic anhydride to convert the monoalkylated amine into the corresponding phthaliminic acid and separating the latter from the neutral solvent solution by shaking with an aqueous solution of alkali.

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1,695,373. VEHICLE BODY SUPPORT. WILLIAM D. HARPER, Waltham, Mass. Filed July 26, 1923. Serial No. 653,937. 4 Claims. (Cl. 296—35.)



1. In a road vehicle employing a support and a load-carrying body, a supporting unit permitting movement of the body from its normal position and a consequent lift of the body, said supporting unit comprising a pair of complementary bearing cups, one of which is adapted to be secured to the body and the other to the support, and an interposed ball member arranged to move about therein, said bearing members presenting a smooth, unbroken curved bearing surface of varying sharpness of curvature over which the ball may ride on relative movement of the bearing cups, the radius of curvature of the bearing surface of the cup towards its outer edges being less than the diameter of the ball but greater than the radius thereof and the radius of curvature of the mid portion being greater than the diameter of the ball.



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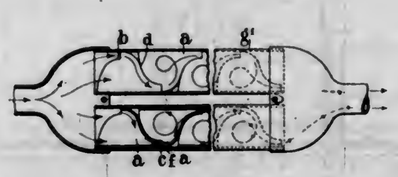
1,695,374. CAMP CONVENIENCE CHAIR. JOHN HARRISON, Roxbury, Mass. Filed Apr. 5, 1926. Serial No. 99,713. 1 Claim. (Cl. 155—31.)



A camp convenience chair consisting of two pair of legs, means permitting it to be used as a toilet seat consisting of two U shaped bars to which each pair of legs is connected, a rectangular piece of canvas with an aperture therein solidly connected to the U shaped members, and means permitting it to be used as a chair, without exerting any pressure on the toilet seat, consisting of a rectangular piece of canvas solidly connected on one side to the canvas of the toilet seat and detachably connected to the opposite end of the chair, said seat being shorter than the corresponding part of the toilet seat.

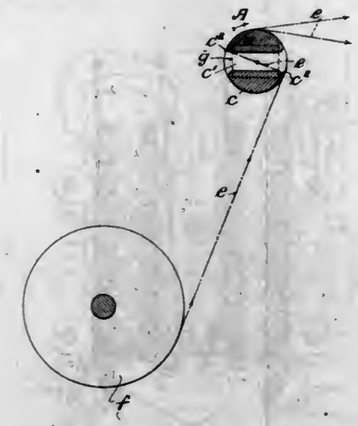
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1,695,375. EXHAUST SILENCER FOR INTERNAL-COMBUSTION OR OTHER ENGINES. FREDERICK HEATHER, Fulham, London, England. Filed Sept. 15, 1926, Serial No. 135,673, and in Great Britain Oct. 8, 1925. 8 Claims. (Cl. 137—160.)



1. An exhaust silencer comprising a plurality of similar sections of tubular form arranged in end to end abutting relation and adapted to provide for the gases an undivided path of wave-like form having the interior space of each section progressively and continuously diminishing in cross-sectional area from the part where the gases enter the space to the part where they leave said space the last mentioned part constituting an outlet and being located at an end of and to one side of said space.

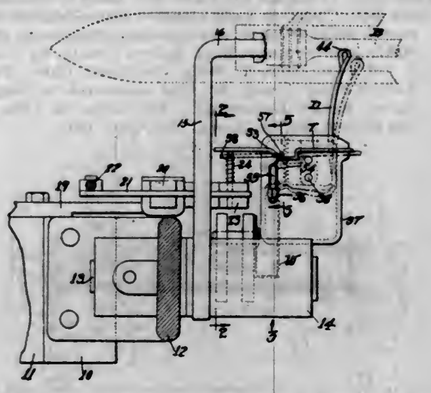
1,695,376. MEANS FOR REGULATING THE TENSION OF WARPS IN LOOMS FOR WEAVING. EDWARD HOLLINGWORTH, Dobeross, England, assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 24, 1926, Serial No. 118,312, and in Great Britain June 27, 1925. 4 Claims. (Cl. 139—97.)



1. A warp tension applying and regulating device comprising a revolubly mounted roll and weighting means therefor, said roll having a longitudinal slot through which the warp is passed diagonally in the manner set forth.

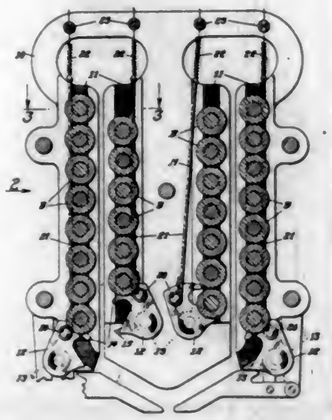
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1,695,377. SIDE-SLIP WEFT DETECTOR FOR LOOMS. VICTOR H. JENNINGS, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Original application filed May 13, 1926, Serial No. 108,942. Divided and this application filed Aug. 1, 1927. Serial No. 209,705. 5 Claims. (Cl. 139—281.)



1. In a side slip weft detector to effect a change in the operation of a loom, a support, a weft detector mounted on the support, said detector moving forwardly as a whole relatively to the support on non-indicating detecting beats of the loom and said detector having an angular movement about a part of the support as a center on indicating detecting beats of the loom, a laterally movable member to be engaged and moved by the detector when the latter moves angularly, an actuator, a controller therefor operatively disposed with respect to the member, said member having an inclined portion, and means fixed relatively to the support and engaging the inclined portion to cause the controller to be operatively related to the actuator when the member is moved laterally by an angular movement of the detector.

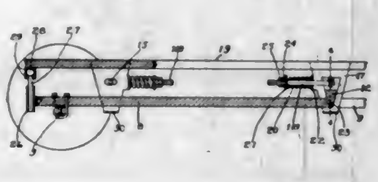
1,695,378. DEVICE TO PREVENT UNWINDING OF YARN FROM BOBBINS. ELMER JACOB, North Adams, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 10, 1927. Serial No. 218,769. 8 Claims. (Cl. 139—245.)



1. In a weft replenishing mechanism, means to guide a stack of bobbins which move toward transfer position by gravity, and flexible means resiliently mounted to engage the conical portions of the yarn on the bobbins adjacent the tips of the bobbins to prevent the winds of yarn adjacent the tips from unwinding.

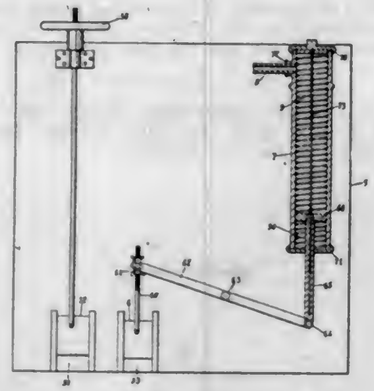
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1,695,379. VEHICLE SUSPENSION. MAX KECK, Covington, Ky.; Christian Keck, administrator of Max Keck, deceased, assignor, by direct and mesne assignments, of one-eighth each to Alwine Keck, Kenton County, Ky.; James J. Foley and Alma B. Foley, Cincinnati, Ohio; Martha Keck, Kenton County, Ky., and one-fourth to Joseph J. Stevee, Kenton County, Ky. Filed June 16, 1923. Serial No. 645,896. 8 Claims. (Cl. 280—124.)



1. In a device of the class described the combination of a front and a rear axle, a chassis comprising depending brackets at its front and rear ends, bell crank levers each comprising a long and a short arm, each lever being pivotally mounted at the junction of its said arms to one of the brackets, the long arms of the levers extending longitudinally of the chassis and substantially from end to end thereof and having their free ends mounted upon the axles, and yielding means expansible and contractible in a plane substantially parallel with the horizontal planes extending longitudinally of the chassis and the levers and having a connection with the free ends of the shorter arms of the levers.

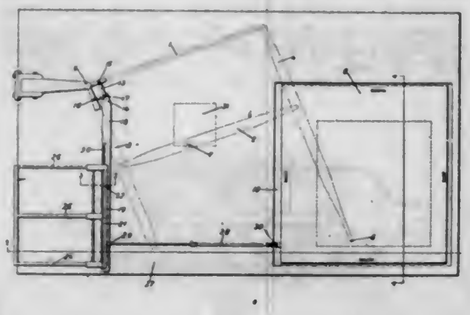
1,695,380. FEED CONTROL OF PAPER-MAKING MACHINES AND APPARATUS THEREFOR. AUGUST KOLITSCH, Port Alfred, Quebec, Canada. Filed Dec. 5, 1927, Serial No. 237,763, and in Canada Oct. 13, 1927. 7 Claims. (Cl. 92—46.)



1. In the process of paper making, the step of controlling the feed of stock to the machine, by means of the variation of vacuum in the suction devices.

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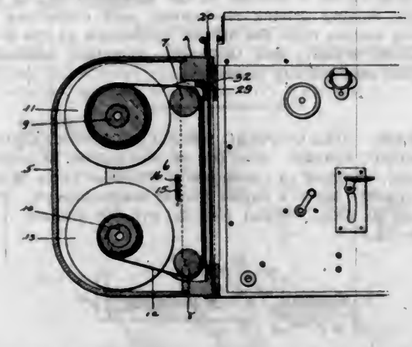
1,695,381. COMPENSATING APPARATUS FOR PANTOGRAPHS. JOHN H. LARRABEE, Washington, D. C. Filed Nov. 3, 1924. Serial No. 747,617. 4 Claims. (Cl. 33—25.)



1. A parallelogram type pantograph copying arrangement comprising interconnected arms, a tracing point and a reproducing point located on said arms, a movable copy-board and means connecting the interconnected arms and copy-board for imparting a progressive movement to the copy board in response to movement of the tracing point thereover.



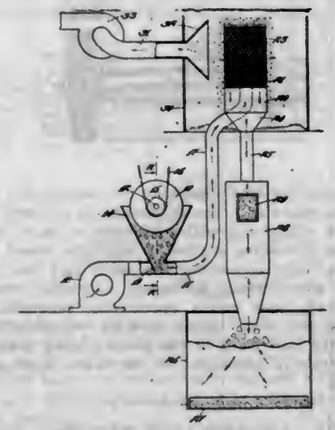
1,695,382. ROLL-HOLDING CAMERA. BYRON MCCANDLESS, Annapolis, Md. Filed Jan. 4, 1927. Serial No. 158,973. 3 Claims. (Cl. 95—34.)



1. A roll holding camera comprising a body portion, a casing detachably mounted adjacent to one side of the body portion, an intermediate frame member positioned between the body portion and casing, a sensitized paper roll holder removably mounted within the frame and covered by the casing, and means carried by the frame for indicating the extent of adjacent exposures on the sensitized paper.

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1,695,383. METHOD OF AND APPARATUS FOR SEPARATING AND CLEANING MICA. LOUIS MCCARTHY, Boston, Mass., assignor to The Macallen Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 27, 1922. Serial No. 603,485. 20 Claims. (Cl. 209—2.)

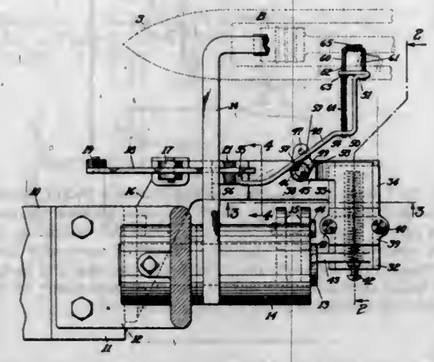


1. The herein described method of handling separated plates or leaves of mica and delivering the same without compaction or adhesion which consists in permitting the same to fall by gravity substantially to the point of delivery against an upward current of gaseous fluid.

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1,695,384. SIDE-SLIPPING WEFT DETECTOR FOR LOOMS. OSCAR V. PAYNE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 9, 1926. Serial No. 114,799. 2 Claims. (Cl. 139—285.)

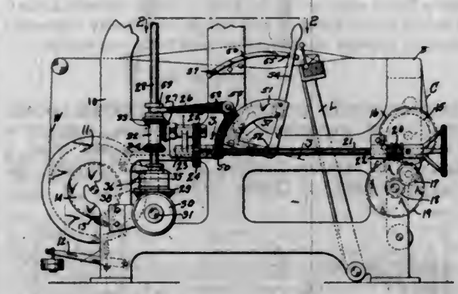
1. In a side slipping weft detector for looms, an actuator to effect a change in the operation of the loom, a pivoted carrier adjacent the actuator and having a controller end rigid therewith for said actuator, a detector slidably mounted on the carrier, said controller end of the carrier being normally out of the path of the actuator and movable into the path of said actuator when the carrier has a pivotal movement, said detector sliding on the carrier



when sufficient weft is present and preventing pivotal movement of the carrier by contact of the detector with the weft, and said detector sliding along a bobbin having insufficient weft to impart pivotal movement to the carrier to move the controller of said carrier under the actuator.

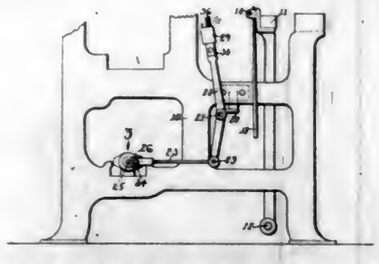
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1,695,385. PICK-OUT DEVICE FOR LOOMS. OSCAR V. PAYNE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 2, 1927. Serial No. 172,156. 10 Claims. (Cl. 139—316.)



1. In a take-up for looms, a take-up roll, means always in operative connection with said roll to rotate the same either forwardly or backwardly, and a device acting conjointly with said means to give the roll a predetermined reverse movement when changing from forward to backward rotation while the means is operatively connected to the take-up roll.

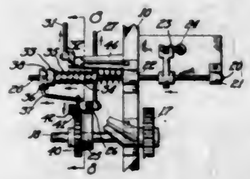
1,695,386. PICKER-ROD LUBRICATOR FOR LOOMS. OSCAR V. PAYNE, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1927. Serial No. 238,144. 9 Claims. (Cl. 139—146.)



1. In a loom having a lay provided with a picker spindle to be moved with the lay forwardly and backwardly each pick of the loom, an oil reservoir, a movable mounting for said reservoir, flexible elements extending upwardly from the reservoir to have contact with the spindle, and means to move said reservoir out of range of movement of the spindle on alternate beats of the loom.

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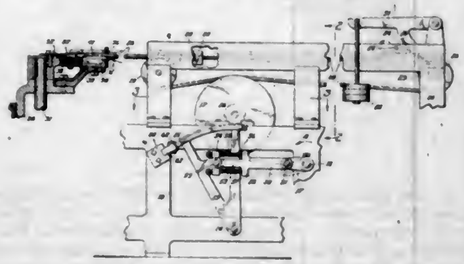
1,695,387. STOPPING MECHANISM FOR KNITTING MACHINES. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed July 27, 1925. Serial No. 46,218. 2 Claims. (Cl. 66—157.)



1. In a knitting machine, a reverse locking mechanism comprising a normally inoperative holding device, and means to render said holding device operative to prevent rearward movement of the machine as said machine is about to be stopped, said holding device comprising a ratchet wheel, a holding pawl, a sliding rod, a pawl-controlling finger mounted on said rod, a spring-pressed actuating device for said sliding rod, and automatically controlled means for holding and releasing said actuating device.

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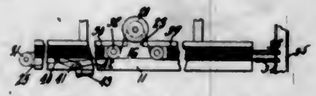
1,695,388. NEEDLE MOTION FOR AXMINSTER LOOMS. WILLIAM W. ROBERTSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed June 13, 1927. Serial No. 198,393. 19 Claims. (Cl. 139—124.)



1. In a needle motion for Axminster looms having a selvage shuttle, a constantly moving driving mechanism, operating mechanism for the needle, a stop for said operating mechanism, and a motion absorbing connection between the driving mechanism and the operating mechanism, said operating mechanism being brought into engagement with the stop during a portion of the movement of the constantly moving driving mechanism, said connection absorbing motion from the driving mechanism as the latter continues to move and the needle operating mechanism remains substantially at rest.

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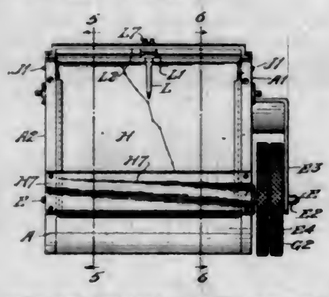
1,695,389. PILE-CUTTING MECHANISM FOR DOUBLE-FABRIC LOOMS. WILLIAM W. ROBERTSON, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 9, 1927. Serial No. 211,815. 8 Claims. (Cl. 26—14.)



1. In a loom for weaving double pile fabric, a rotatable cutter, a support for said cutter, and means to reciprocate said support and cutter across the loom between the upper and lower plies of said fabric, said reciprocating means directly engaging and simultaneously rotating said cutter.

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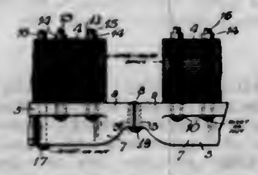
1,695,390. RADIO APPARATUS. ALFRED F. SANFORD, Knoxville, Tenn. Filed Dec. 17, 1925. Serial No. 76,099. 20 Claims. (Cl. 40—95.)



1. In a radio receiving apparatus, the combination of two members concerned with tuning, and to be set with reference to each other and with reference to wave lengths coming from a sending station, a movable record sheet, means operatively connecting the sheet and one tuning member for simultaneous movement, a pointer extending over the sheet, and means operatively connecting the pointer with the other tuning member for simultaneous movement, the movement of the pointer being transverse to the direction of movement of the sheet, substantially as described.

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1,695,391. SQUIRREL-CAGE WINDING. THEODOR SCHOU, Mansfield, Ohio, assignor to Ideal Electric & Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Filed July 14, 1920. Serial No. 396,250. 5 Claims. (Cl. 171—252.)



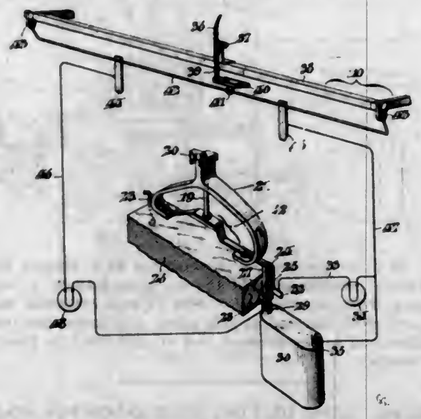
1. A squirrel cage winding including a segmental end connecting ring, the ends of the segments being disposed approximately in abutting relation with a conoidal aperture-



disposed perpendicularly to the plane of said ring at the joint, in combination with a conducting sleeve having a split side disposed in said aperture and a conoidal wedge fitting tightly within said sleeve to expand the same tightly against said segments.

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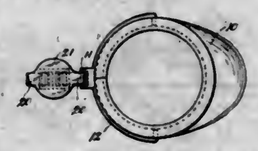
1,695,392. SIGNAL MEANS FOR TYPEWRITERS. ROBIN SEIDELINGER, Philadelphia, Pa. Filed Oct. 28, 1926. Serial No. 144,690. 4 Claims. (Cl. 197—187.)



1. The combination in a typewriter embodying a platen roller and carriage therefor; of signal means operative upon exhaustion of a paper sheet being typed including an actuating detector finger and co-operative pendulous member pivoted on the carriage and adapted to be outwardly flipped—to close an electric circuit through the signal means—by the trailing end of the sheet incidental to terminal passage of the latter about the platen roller.

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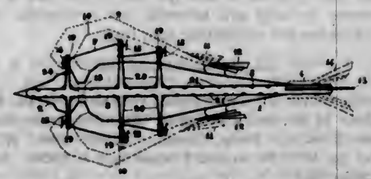
1,695,393. NOSE-PROTECTING STRAP FOR GOGGLES. HARRY F. SHINDEL, Reading, Pa., assignor to Willson Products, Inc., Reading, Pa., a Corporation of Pennsylvania. Filed Sept. 10, 1927. Serial No. 218,670. 1 Claim. (Cl. 2—14.)



In combination with separate lens framings; a connecting buckle-strap comprising a buckle adapted to adjustably engage the strap ends, and a strap having end portions of less width than said buckle and a widened midway portion forming a nose-rest which laterally overlaps the ends engaging buckle.

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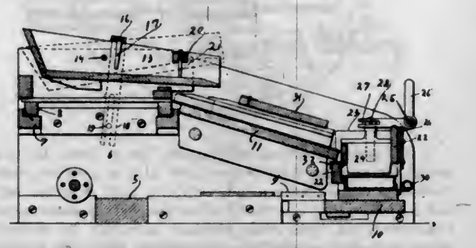
1,695,394. AIRSHIP WITH MIXED SUSTENTATION. GUIDO TALLEI, Rome, Italy. Filed Sept. 29, 1926, Serial No. 138,464, and in Italy Oct. 13, 1925. 5 Claims. (Cl. 244—5.)



1. An air ship with mixed sustentation, comprising an engine, supporting surfaces to supply in flight aerodynamical lifting power, an envelope of sheet metal and filled with air, a hollow tube extending along the longitudinal axis of the envelope, the exhaust gases of the engine being led to said longitudinal tube for the purpose of heating the air contained in the envelope and thus supplying aerostatic lifting power, ring shaped girders supporting the envelope, and spokes radiating from said hollow longitudinal tube for stiffening the girders.

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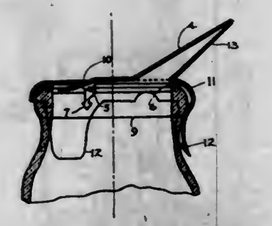
1,695,395. ASSORTING MACHINE. LEVERETT W. TIFFANY, Winsted, Conn. Filed Sept. 14, 1925. Serial No. 56,155. 3 Claims. (Cl. 226—2.)



1. An assorting machine for pins and the like, including in combination, a movable hopper, means providing a receiving compartment, means for effecting a delivery of articles from said hopper to said receiving compartment, and means forming a fixed part of the machine and extending into said hopper and in contact with said articles for disposing of said articles in predetermined positions.

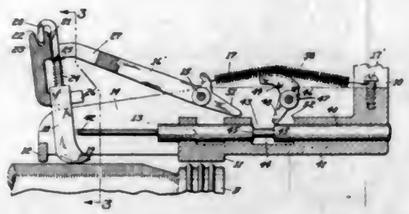
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1,695,396. BOTTLE COVER, ESPECIALLY ADAPTED FOR THE USE WITH MILK BOTTLES. LAZAR MARK TRAUB, Brookline, Mass., assignor to Traub Company Inc., Boston, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1926. Serial No. 135,970. 1 Claim. (Cl. 215—63.)



A cover for an open-topped receptacle comprising a cap adapted to seat on the open top of the receptacle and having means for securing the cap to the receptacle when seated on the said open top, the cap having an opening and an open spout extending from the opening, a flap intermediately hinged to opposite sides of the opening, the flap having a body portion for covering the opening, a lid on one side of the hinge for resting against the open spout to close the spout when the flap occupies its normal position, and an extension at the other side of the hinge that extends into the opening and under the cap to engage the underside of the cap when the flap occupies its normal position, the portion of the flap on the spout side of the hinge being heavier than the portion of the flap on the extension side of the hinge, whereby the flap is adapted to occupy its normal position by gravity when the receptacle occupies its normal position with its open top uppermost, and whereby, when the receptacle is tilted from its normal position, the flap will pivot from its normal position about the hinge in response to the pressure exerted upon the lid by the contents of the receptacle.

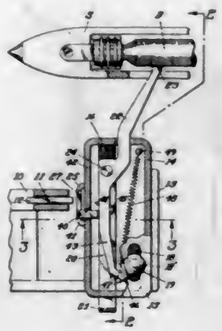
1,695,397. FEELER IN TRANSFERRER ARM. RICHARD G. TURNER, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 21, 1927. Serial No. 227,801. 8 Claims. (Cl. 139—271.)



1. In weft detecting mechanism for a loom having a regularly moving transferrer arm with a carrier pivoted thereto provided with a side slipping weft detector which has an indicating movement when the weft is substantially exhausted, an indicating plunger normally in retracted position and located for engagement with the detector when the latter has an indicating movement, a retaining device mounted on the transferrer arm independent of the carrier and having lateral engagement with the plunger, and a single resilient device to hold the carrier and detector normally raised with respect to the transferrer arm and also to hold the retaining device against the plunger to prevent accidental movement of the latter.

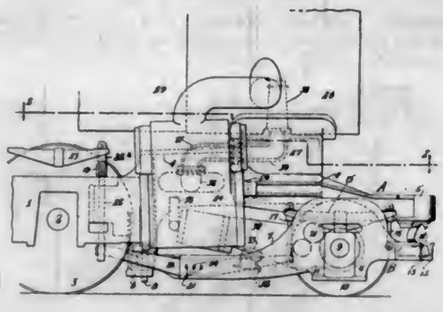
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1,695,398. SIDE-SLIP WEFT DETECTOR. KENNETH J. UNWIN, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 21, 1927. Serial No. 234,585. 2 Claims. (Cl. 139—286.)



1. In weft detecting mechanism a substantially closed casing in which is slidably mounted a detector carrier, a side slipping weft detector pivotally supported by the slide, cooperating means formed on the detector and slide to limit angular movement of the detector with respect to the slide in one direction, an arm integral with the detector and extending forwardly and located within the casing, said arm being provided with a plurality of notches which are at different distances from the center of rotation of said detector, and a tension spring located within the casing and having one end fast with respect to the casing and having the other end held by one of the notches.

1,695,399. LOCOMOTIVE CONSTRUCTION. HARRY S. VINCENT, Ridgewood, N. J., assignor to Franklin Railway Supply Company, a Corporation of Delaware. Filed Jan. 28, 1925. Serial No. 5,183. 18 Claims. (Cl. 105—44.)



1. In a locomotive, the combination of a unitary front extension member secured to the main frames, a radial leading truck pivoted to the rear of said extension member and receiving load at said pivot, and means for transmitting load to the forward end of said truck in front of its wheels.

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1,695,400. LINK DRIVING MECHANISM FOR WASHING MACHINES. WILLIAM H. VOSS, Davenport, Iowa. Filed Jan. 26, 1925. Serial No. 4,671. 2 Claims. (Cl. 74—14.)

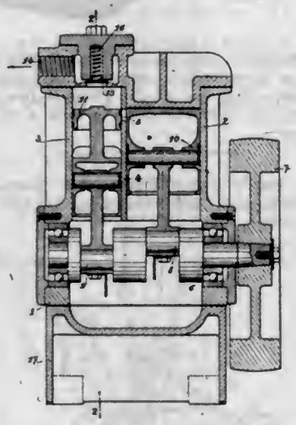


1. In a device of the class described, the combination of a support, a tub shiftably mounted thereon, a link having a bearing forming an axis of oscillation, said link being formed of two plates spaced apart and provided with registering slots extending longitudinally thereof from said axis of oscillation, a pin extending across said plates therebetween with its ends lying in said slots, a rod having a fork pivoted to said pin and to the tub, a control rod pivoted to said pin between the furcations of said fork and means for oscillating said link.

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1,695,401. AIR PUMP. PAUL VOREAUX, Paris, France, assignor of one-half to Société "Etablissements Samga & Bavox Réunis," Paris, France. Filed Mar. 17, 1927, Serial No. 176,186, and in France Nov. 6, 1926. 1 Claim. (Cl. 230—222.)

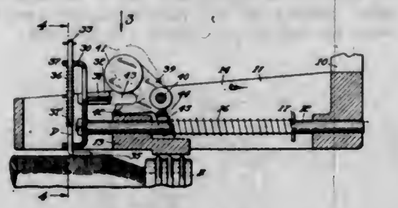
In an air pump, the combination of a low pressure cylinder, a high pressure cylinder arranged in parallelism with the said low pressure cylinder and juxtaposed to the latter, a piston of a large diameter in the said low pressure cylinder, a piston of small diameter in the said high-pressure cylinder, a crank-shaft adapted to operate the said pistons, the cranks of the said shaft being angularly displaced the one relatively to the other, and links connecting the said pistons to the respective cranks, the said high pressure cylinder having in its wall, in the plane of oscillation of the respective link, a suction port opening



to the exterior, and in the plane of the cylinder axes, a port opening into the top of the low pressure cylinder, and the said high pressure piston being provided in its cylindrical face with a very deep circular groove whose wall at the side of the upper end of the respective link is inclined in a direction parallel to the plane of rotation of this link, the lower part of this wall being situated on the suction port side and extending about to the level of the axis of articulation of the said high pressure piston with the respective link.

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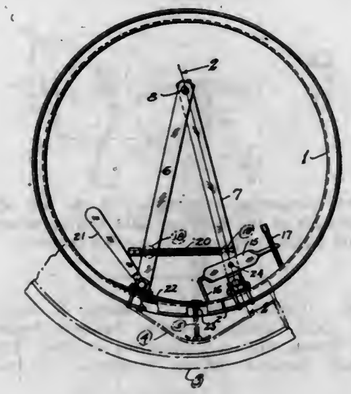
1,695,402. WEFT DETECTOR MOUNTED ON INDICATING PLUNGER OF REGULARLY-MOVING TRANSFERRER ARM. WALTER H. WAKEFIELD, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 10, 1927. Serial No. 232,422. 7 Claims. (Cl. 139—271.)



1. In a weft detecting mechanism for looms having a regularly moving transferrer arm, an indicating plunger slidably mounted on the transferrer arm, a weft detecting element, a carrier for the element supported by and movable with the indicating plunger, and means tending to move the indicating plunger from non-indicating to indicating position on each detecting beat of the loom, engagement of the detector with a sufficient supply of weft preventing movement of the plunger to indicating position.



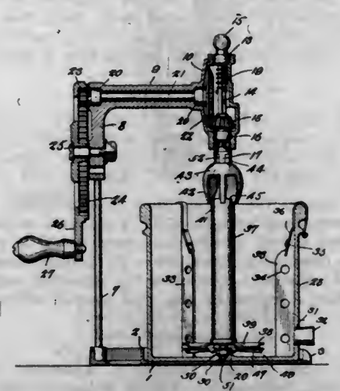
1,695,403. RIM TOOL. FRANCIS H. WEBSTER, St. Louis, Mo. Filed Dec. 14, 1927. Serial No. 239,928. 11 Claims. (Cl. 157—1.)



1. In a rim tool, means for overlapping the ends of a split rim, and a member controlled by said means for holding a tire valve stem outside of the rim.

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1,695,404. CHURN. GEORGE E. WHEELER, Burlington, Iowa, assignor to The Burlington Separator Co., Burlington, Iowa. Filed July 30, 1926. Serial No. 125,988. 3 Claims. (Cl. 259—96.)



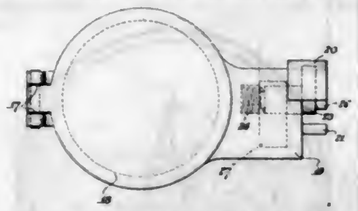
1. In a churn a dasher including a tubular stem, a member having spaced wings engaging one end of the stem and providing air inlets between them, a disk at the other end of the stem having depressions, a bottom disk bearing against the depressions to provide air outlets therebetween, cooperating interfitting means upon the disks for holding them against relative rotation, and an adjustable connection between the bottom disk and the stem engaging member for binding the disks together.

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1,695,405. LOCKING DEVICE FOR CLOSURES. JOHN A. WILLNESS, Philadelphia, Pa., assignor to Penn Utility Company, Conshohocken, Pa., a Corporation of Delaware. Filed Apr. 1, 1925. Serial No. 20,019. 3 Claims. (Cl. 202—109.)

1. In combination with a closure, a fixed formation and a movable formation, a key operated locking element

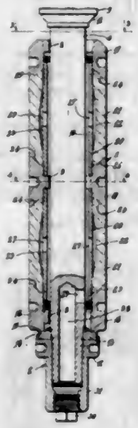
seated in one of said formations having both rotative and longitudinal movement therein and adapted to be brought into locking relation with the other formation and



means for permitting engagement of the key with and disengagement of the key from said locking element only when said locking element is in locking position.

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1,695,406. CASING SWAB. FORREST J. YOUNG, Torrance, Calif., assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 17, 1926. Serial No. 88,842. 6 Claims. (Cl. 103—225.)



1. In a swab, the combination of a mandrel, and a tubular sleeve longitudinally slidably mounted on the said mandrel and spaced therefrom to provide a fluid passage said sleeve comprising upper, lower and intermediate nuts, and sleeves adjustably connecting the said nuts, and packing cylinders mounted on the said sleeves between the said nuts.

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1,695,407. LIP STICK. GEORGE F. ANDERSON, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed July 27, 1926. Serial No. 125,247. 4 Claims. (Cl. 206—56.)



3. In a holder for cosmetics and the like, the combination of an outer casing, a rotatable tube in the casing having a longitudinal slot, a cosmetic holder in the tube and provided with a projection extending through the slot, a helix engaged by the projection for effecting a longitudinal movement of the holder in the casing, and shoulders on the helix arranged for engagement by the projection on application of pressure applied to a cosmetic carried in the holder to prevent the carrier from inward longitudinal movement during the use of the cosmetic.

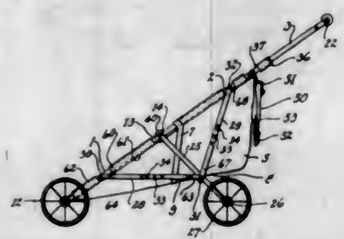
1,695,408. INNER SOLE AND METHOD OF MAKING THE SAME. HARRIE A. BALLARD, Beverly, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo., a Corporation of Delaware. Filed Mar. 17, 1921, Serial No. 452,946. Renewed Oct. 25, 1928. 8 Claims. (Cl. 36—22.)



1. The method of making an inner sole which comprises channeling a sole blank in opposite directions about its margin, compacting one of the channel lips so formed, and bending the other thereover to form a rib of the desired contour.

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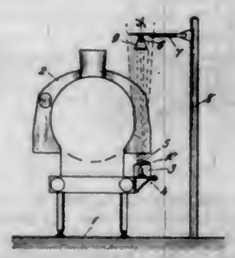
1,695,409. BABY CAB. HERBERT B. BANKS, Chicago, Ill. Filed Sept. 3, 1927. Serial No. 217,475. 4 Claims. (Cl. 280—41.)



4. A folding carriage comprising a pair of double jointed side bars, a front rod connecting one pair of adjacent ends of said bars, a handle rod connecting the other ends of said bars, a wheel bar pivoted to a joint of each side bar and normally extending angularly therefrom, an axle connecting the outer end of each wheel bar, a wheel mounted on each end of said axle, a pair of jointed spaced supporting bars pivoted to each side bar and to the wheel bar, a second rod connecting said side bars between said handle rod and said front rod, and a flexible fabric sheet depending from and supported by said front rod, said second rod and said side bars.

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1,695,410. TRAIN-CONTROLLING MEANS BY LIGHT RAYS. WOLFGANG BÄSELER, Munich, Germany, assignor to Lorenz-Zeiss-Zugsicherungs-G. m. b. H., Berlin-Tempelhof, Germany. Original application filed Feb. 12, 1927, Serial No. 167,759, and in Germany Feb. 16, 1927. Divided and this application filed Jan. 9, 1928. Serial No. 245,380. 3 Claims. (Cl. 246—29.)



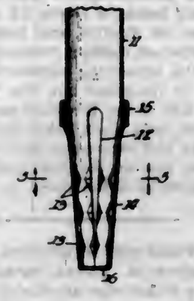
1. In an automatic train control system of the character described, the combination of electromechanical locomotive control means of the train brakes including a light-influenced element and actuatable only when said element is



influenced by the action of light, a light source arranged on the locomotive, a light-reflecting member having three reflecting planes positioned in a distinct angle relationship with respect to each other and adapted to reflect incoming light rays at a constant angle with respect to this incoming direction, said reflecting member being fixedly arranged on the track adjacent to a danger section or occupied block of a railway and being in its operative position under danger conditions to reflect light rays radiated by said light source on the locomotive in such a direction as to act upon said light influenced element.

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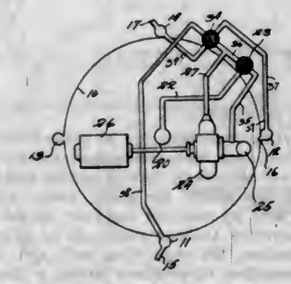
1,695,411. METAL FURNITURE. CHARLES H. BUSCH, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 2, 1921. Serial No. 449,072. 4 Claims. (Cl. 5—279.)



1. An article of furniture comprising a main frame provided with a depending tubular sheet metal post slitted longitudinally at its base to form a plurality of elongated fingers, and a continuous walled tapered tubular shell fitting over and contracting said base, said fingers having the lateral edges bent inwardly to reinforce same against contracting strain and thereby cause the fingers to frictionally interlock with the shell.

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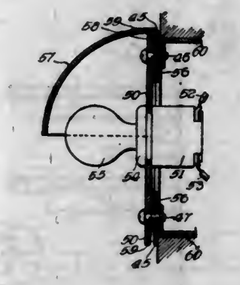
1,695,412. DISHWASHER. ROBERT L. COTTERILL, Philadelphia, Pa. Filed July 2, 1927. Serial No. 203,146. 5 Claims. (Cl. 141—9.)



1. A washing machine including a tank, the tank being formed to provide a water inlet leg at one point, having nozzles uniformly spaced in a vertical series on said leg and discharging tangentially with relation to the tank, a rack rotatably mounted, within the tank, and valve means whereby the passage of water from the nozzles and through the tank may be controlled.



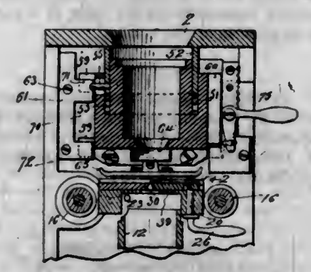
1,695,413. ELECTRIC-LIGHT FIXTURE. WILLIAM P. CROCKETT, Chicago, Ill. Filed Apr. 4, 1927. Serial No. 180,672. 8 Claims. (Cl. 240—73.)



2. In an electric light fixture of the class described, the combination of a wall plate, said wall plate being apertured, a face plate also apertured and adapted to receive an electric light socket and lamp, a ring interposed between said wall and face plates, said ring being of a lesser dimension than both of said wall and face plates and of a sufficient thickness to furnish a shoulder on its outer perimeter, said shoulder and outwardly extending portions of said wall and face plates forming a groove, a shade, an inwardly extending flange on said shade, the inner perimeter of said flange being adapted to contact with the outer perimeter of said intermediate ring, said wall plate, face plate, shade flange and intermediate ring having frictional contact to permit the rotation of said shade and flange in said groove to any place desired.

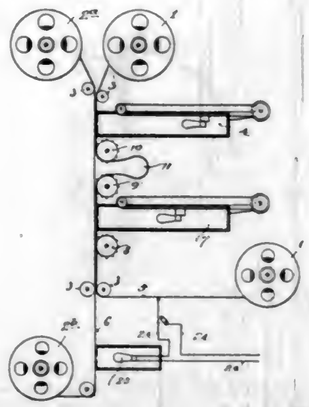
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1,695,414. TALKING-MOVING-PICTURE MACHINE. LEE DE FOREST, New York, N. Y., assignor to De Forest Phonofilm Corporation, a Corporation of Delaware. Filed Dec. 7, 1923. Serial No. 679,260. 18 Claims. (Cl. 179—100.1.)



2. In a light slit assembly for a sound picture attachment, a supporting plate with an orifice therethrough, a light slit plate positioned in front of said supporting plate and formed with a slot therethrough extending to the area of said orifice, a slidable slit forming member mounted in said slot, and means for moving said member in said slot to adjust the size of the slit formed thereby.

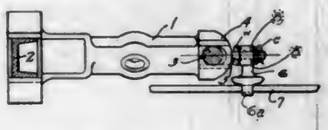
1,695,415. TALKING-MOTION-PICTURE RECORD. LEE DE FOREST, New York, N. Y., assignor to De Forest Phonofilm Corporation, New York, N. Y., a Corporation of Delaware. Filed May 17, 1924. Serial No. 713,887. 9 Claims. (Cl. 95—75.)



1. The method of preventing the production of ground noises from positive photographic films having sound records separated by unexposed portions, which comprises subjecting the positive film to light exposure at the unexposed portions corresponding to the silent portions of the negative to blacken those portions of the film.

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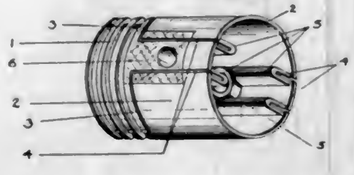
1,695,416. BRAKE-BEAM STRUCTURE. FREDERIC T. DE LONG, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 4, 1927. Serial No. 188,682. 15 Claims. (Cl. 188—213.)



1. In a brake beam, a third or fourth point support chair angularly adjustable on the beam in a vertical plane extending lengthwise of the beam.

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1,695,417. PISTON. JAMES EDWARDS DIAMOND, Mount Vernon, N. Y., assignor to The Cleveland Trust Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 18, 1922, Serial No. 561,997. Renewed Sept. 14, 1927. 3 Claims. (Cl. 74—108.)



1. A piston for an internal combustion engine, having a head, a skirt and piston pin bosses on the skirt, said skirt having slots therein extending into the piston pin bosses and forming grooves therein.

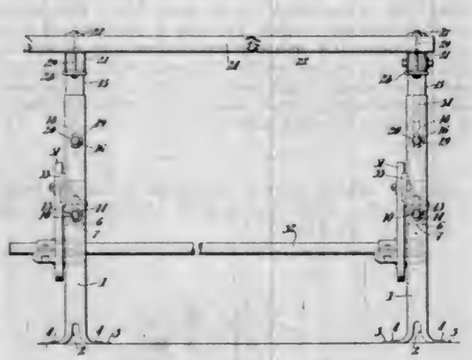
1,695,418. RESILIENT MOUNTING FOR THE STYLUS HOLDER OF TALKING MACHINES. JOSEPH DURHAM, Roselle, near Sydney, New South Wales, Australia. Original application filed Apr. 17, 1923, Serial No. 632,646, and in Australia Oct. 14, 1922. Divided and this application filed Sept. 23, 1924. Serial No. 739,356. 1 Claim. (Cl. 274—35.)



In a mounting for a stylus holder on a sound box, a sound box having parallel spaced lugs extending laterally therefrom, a block having a recess for mounting a stylus therein, a stylus bar fixed in and carried by the block, a U-shaped member of resilient material having the legs diverging from the connecting portion thereof, pivots adjustably carried by the sound box lugs for engagement of the ends of the legs of the U-shaped member to pivotally support the same, said block being engaged within said U-shaped member and secured to the connecting portion thereof with the legs of the U-shaped member free of and extending laterally of the block.

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1,695,419. SUPPORTING STRUCTURE FOR POWER TABLES. GEORGE M. EAMES, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Mar. 19, 1926. Serial No. 95,848. 14 Claims. (Cl. 45—31.)

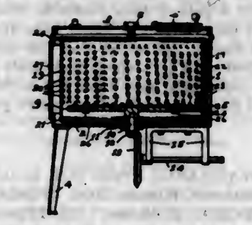


1. A supporting structure for a power-table consisting of supporting legs each comprising substantially vertical primary and secondary channel-bar leg-members slidingly disposed one within the other, means for adjustably securing said leg-members together, spaced supporting rails of inverted U-shape sustained by pairs of secondary leg-members, the supporting rails and the upper ends of the secondary leg-members having a channel-wall fitting engagement of one within the other, and a table-top secured upon said spaced rails.

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1,695,420. POTATO PEELER. ANTON ECKERT, Pittsburgh, Pa. Filed Mar. 24, 1927. Serial No. 177,868. 3 Claims. (Cl. 146—49.)

1. A vegetable peeler comprising a casing, a grater cylinder mounted therein, a flat, apertured rotatable grater disk positioned within and in proximity to the lower end of said cylinders, and driving means for said

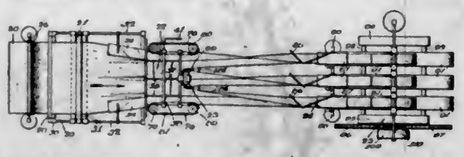


disk, said cylinder being split, and a grater plate carried by said casing and extending into said cylinder between the split ends thereof and above said disk.

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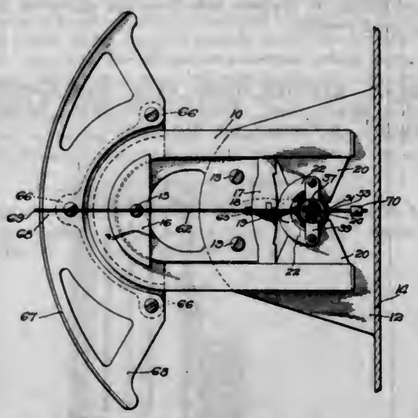
1,695,421. MACHINE FOR SLITTING AND FOLDING FABRIC. JOHN F. GAIL, Evanston, Ill., assignor to Simmons Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 5, 1925. Serial No. 60,382. 12 Claims. (Cl. 270—86.)



1. In a machine of the character described, means for furrowing the fabric supply strip, means for guiding the edges of said strip as it is narrowed by the furrowing operation, means for slitting the strip intermediate the furrow and an edge of the strip, and means for adjusting the furrowing operation to render the edge guiding and slitting mechanism operable for guiding and slitting supply strips of various widths.

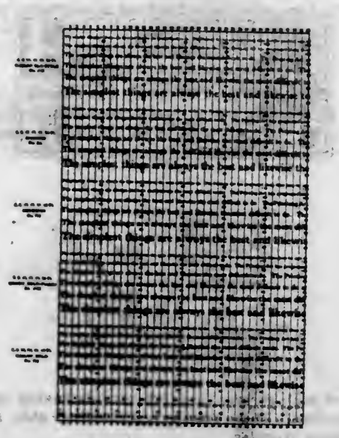
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1,695,422. ELECTRIC METER. GEORGE W. GRISDALE and ELMER SCHNEIDER, Chicago, Ill., assignors to Republic Flow Meters Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 25, 1924. Serial No. 733,903. 12 Claims. (Cl. 171—95.)



1. An electrical measuring instrument comprising a magnet having opposed pole pieces, a web of non-magnetic material arranged adjacent said pole piece and bridging the space between the arms of said magnet, said web being spaced from said pole pieces adjacent the central portion thereof, and a galvanometer element slidably connected with said web and movable into and out of position between said pole pieces.

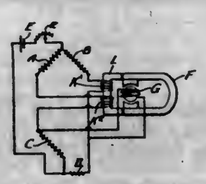
1,695,423. PRINTING CHART. WALLACE W. GYLLENBERG, Detroit, Mich. Filed Sept. 12, 1927 Serial No. 218,910. 6 Claims. (Cl. 283—1.)



4. A chart for printing having arranged on its face a plurality of sets of characters representing different styles and points of printing type and a numeral associated with the type of each style and point indicating the number of characters of such style and point in an average line of a given length.

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1,695,424. WHEATSTONE BRIDGE METER SYSTEM. THOMAS R. HARRISON, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1925. Serial No. 18,626. 4 Claims. (Cl. 171—95.)



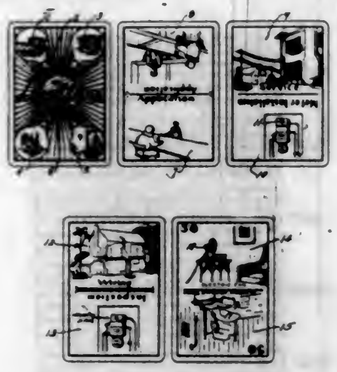
1. In a meter system comprising a Wheatstone bridge having two pairs of opposing arm junctions, a source of energizing current connected between the two junctions forming one of said pairs and a deflecting galvanometer connected between the other two junctions, the improvement which consists in a winding electro-magnetically associated with the galvanometer and energized by said source of energy and adapted to produce an effect on the galvanometer deflection opposite to that produced by the bridge as a result of fluctuations in the energizing current and in substantially constant proportion to the total flow of current through said bridge from said source.

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1,695,425. PLAYING CARD. MARGARET T. HARTNACKE, Grand Rapids, Mich. Filed Aug. 17, 1928. Serial No. 300,330. 3 Claims. (Cl. 273—152.)

1. A pack of playing cards having upon their faces pictorial illustrations representing various phases in the procedure of securing service of electric current, other cards having upon their faces pictorial illustrations showing

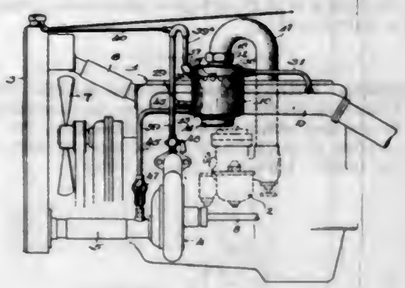
household appliances and devices used by consumers of current, other cards having upon their faces pictorial illustrations representing sources of trouble encountered in



the use of such current, and other cards having upon their faces pictorial illustrations representing aids for overcoming such troubles.

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1,695,426. AIR CONDITIONER. DREW HEAD, Chicago, Ill. Filed Jan. 3, 1927. Serial No. 158,448. 11 Claims. (Cl. 123—25).



1. An air conditioning device for internal combustion motors comprising a casing having a plurality of connected chambers therein, forming a circuitous air passage from the atmosphere to the carburetor of said motor and including a central passgae through which the air passes in an upward direction, a nozzle arranged axially of said central passage and connected with a source of water supply, a water receptacle below said central passage and connected with said source of water supply, and a heat chamber in said casing intermediate two of said air passages and having inlet and outlet connections with a source of heat from said motor.

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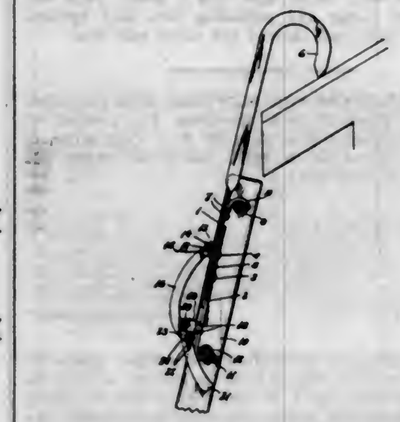
1,695,427. PEROGEN DOUGH CUTTING AND TRIMMING TOOL. SOLOMON HELFGOTT, New York, N. Y. Filed Nov. 15, 1926. Serial No. 148,391. 1 Claim. (Cl. 107—49.)



A dough cutting and trimming tool of the class described comprising a handle formed by two spring arms of metal integrally connected at one end, said arms being bowed outwardly at a point adjacent the opposite end of the handle, a pivot pin carried at the inner end of one of the arms and adapted to be locked in an aperture in the end of the opposite arm, a pair of discs rotatably mounted on said pin, one of said discs having a fluted edge and the second disc being of a smaller diameter than the first mentioned disc and provided with a toothed periphery, locking pins for detachably connecting said discs and a clamping sleeve for locking said discs as a unit on the pivot pin at the end of said arms.

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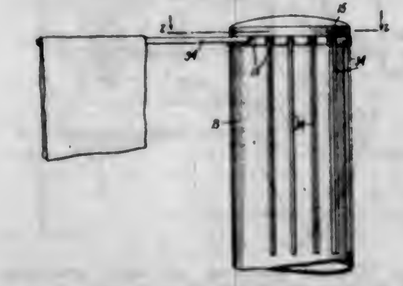
1,695,428. DETACHABLE HOOK FOR ROOF LADDERS. JOSEPH A. JOHNSON, Weston, Mass. Filed Oct. 25, 1927. Serial No. 228,569. 2 Claims. (Cl. 228—51.)



1. A detachable hook for roof ladders, comprising two members movably secured together and longitudinally slidable upon each other, one of said members having its free end portion in form of a hook to engage a round of a ladder, the other of said members having its free end portion in the form of a hook to engage a support, as a roof, and a hook to engage another round of the ladder; a hand lever pivoted to one member; and an operating bar pivoted to the other member, and having its free end portion pivotally connected to the hand lever, whereby opposite movements of the hand lever will cause said hook members to slide longitudinally in opposite directions, and engage or disengage said rounds.

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1,695,429. KITCHEN TOWEL RACK. OTTO KARTZMARK, West Haven, Conn. Filed Nov. 22, 1926. Serial No. 149,913. 9 Claims. (Cl. 211—110.)



4. In a towel rack of the nature set forth, the combination with a supporting band, of a series of sheet metal socket pieces secured thereto in spaced relation, and a series of arms, one for each socket piece pivotally and slidably movable therein respectively, each socket piece having a pair of spaced parallel cheek pieces having registering



slots remote from the band, a pivot pin extending through said slots and arm for connecting the arm to the socket piece, the socket piece having an inbent abutment formed therein and the arm having a notch complemental to the abutment and having a nose projecting into the space between the abutment and the band, and the cheek pieces being formed with positive supporting means adjacent to the slots for positively holding the pivot pin in such position as to prevent accidental withdrawal of the arm from the abutment when in supporting position.

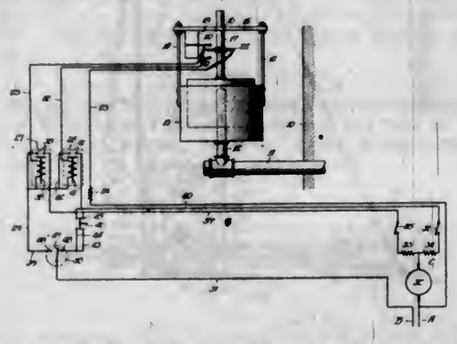
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1,695,430. AGENT FOR CLEANING AND IMPARTING RUST-INHIBITIVE PROPERTIES TO STEEL. JAMES D. KLINGER, Detroit, Mich. Filed June 27, 1924. Serial No. 722,720. 6 Claims. (Cl. 148—8.)

5. A solution to be used for cleaning and imparting rust resisting properties to steel containing a hydroxycarboxylic acid.

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1,695,431. COMBUSTION CONTROL IN STEAM-BOILER FURNACES. FRED H. LINLEY, Duluth, Minn. Filed Oct. 5, 1926. Serial No. 139,672. 7 Claims. (Cl. 236—15.)



1. In combustion control mechanism, means for operating a damper comprising a motor having two circuits, one for each direction of rotation, each circuit being adapted to be connected to a source of current by a relay, means for operating one or the other of said relays depending upon pressure conditions in a combustion chamber, comprising a double switch mechanism having two fixed contact points and a movable contact point, the movable contact point and one of said two contact points being connected when the pressure in said combustion chamber increases a certain predetermined extent and the movable contact point and the other of said two contact points being connected when said pressure in said combustion chamber diminishes to a certain predetermined extent.

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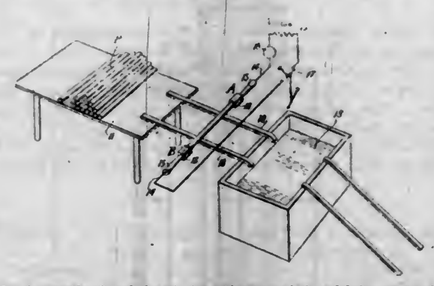
1,695,432. TOILET-PAPER HOLDER. ARTHUR W. LOVEJOY, Lowell, Mass. Filed Mar. 18, 1924. Serial No. 700,017. 1 Claim. (Cl. 220—43.)



A toilet paper holder comprising a box of tube type having a closure flap consisting of a panel hinged to the back, a second panel hinged to the first said panel, each panel having a hole therein, which holes are in mating relation when the panels are folded against each other, a slot being formed in the hinge line between the back and the first said panel of the closure flap, and a tab on the said second panel and insertible in said slot when the panels are folded against each other, whereby said folded panels will constitute a means for suspending the holder.

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1,695,433. HEAT TREATMENT OF METALS. ANGUS S. MACDONALD, Great Neck, N. Y., assignor to Snead & Company, a Corporation of New Jersey. Filed Oct. 11, 1924. Serial No. 742,966. 2 Claims. (Cl. 148—4.)



1. A method of heat treating metal which comprises heating the body of metal to be treated, by passage of current therethrough, up to a temperature at which the desired grain structure effect is quickly brought about, and thereupon quenching it before shutting off the current.

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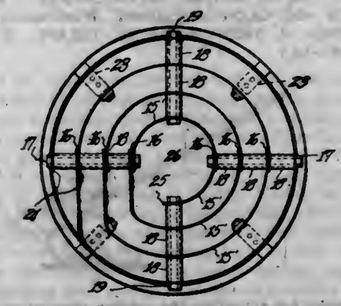
1,695,434. AIR PREHEATER FOR FURNACES. LEON T. MART, Kansas City, Mo. Filed May 23, 1925. Serial No. 32,522. 3 Claims. (Cl. 257—167.)



3. In a preheater for heating inlet air by flue gases, a flue for hot gas, upper and lower walls of which are apertured and free from threads, the apertures in the upper wall being the larger, in combination with tubes passing through the apertures in the upper wall and extending above its apertures and a covering of heat insulation sealing material between the tube extensions and the apertures in the upper wall.

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1,695,435. SILENCER. HIRAM PERCY MAXIM, Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 8, 1925. Serial No. 55,042. 6 Claims. (Cl. 137—160.)

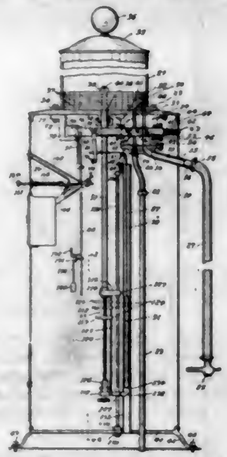


1. A silencer comprising a spiral sheet scroll interposed between header plates to form a continuous closed unin-

terrupted spiral passage from an axial chamber to a lateral peripheral opening, the wall of said scroll being made up of sections each forming part of the continuous convolutions of said scroll, the joints of the adjacent sections in each successive convolution of said scroll being located in radial alignment, and means for fastening said sections together at said joints.

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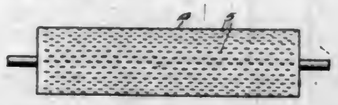
1,695,436. GASOLINE-DISPENSING DEVICE. IRA F. NEWTON, St. Paul, Minn. Filed Apr. 13, 1921. Serial No. 460,978. 15 Claims. (Cl. 221—103.)



13. A liquid dispensing machine comprising a measuring device, a plurality of members for regulating the amount of liquid dispensed by said measuring device and means for simultaneously adjusting the said regulating devices to proportionally increase or decrease the volume of liquid dispensed by the machine.

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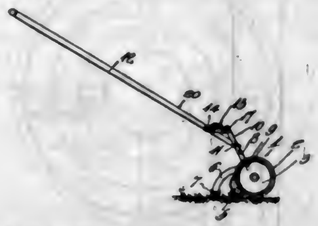
1,695,437. PRINTING ROLLER. JOHN P. NISSEN, Jr., Philadelphia, Pa. Filed Jan. 17, 1925. Serial No. 3,053. 1 Claim. (Cl. 91—67.8.)



An inking roller for printing presses comprising a substantially cylindrical solid body of resilient rubber-like material, having integral outstanding peripheral walls of said yielding material forming ink-holding pockets in its periphery that are elongated longitudinally of the axis of rotation of the roller and open through its periphery.

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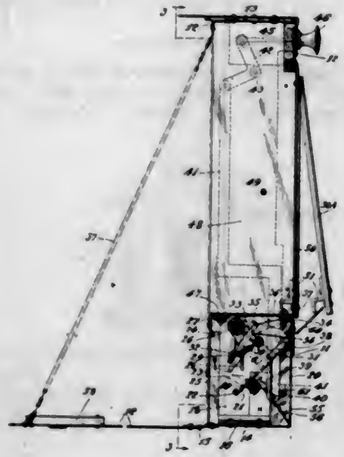
1,695,438. LAWN-MOWER ATTACHMENT. ANATOLE PANALLE and GRANT ALEXANDER, Washington, D. C. Filed Sept. 3, 1926. Serial No. 133,476. 1 Claim. (Cl. 306—14.)



In a device for adjusting the cutting element of a lawn mower with respect to a lawn, the combination of a handle, two identically constructed plates having apertures therein, a toothed rack formed on the plates, a bolt adapted to pass through the handle and engage the plates on each side thereof and a second bolt adapted to rest in the rack of the plates and bear on the handle, and a third bolt adapted to engage the bail of the mower, whereby positioning of the mower at various angles with respect to the handle and lawn is accomplished by moving the second bolt along the rack so as to engage various teeth thereof.

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1,695,439. COIN-OPERATIVE DEVICE. FELIX Q. RABT, New York, N. Y. Filed Mar. 17, 1927. Serial No. 176,073. 6 Claims. (Cl. 194—65.)



1. In a coin-operative device, in combination, a casing, a plurality of compartments within the casing, a hinged door covering the front opening of each compartment, a coin slot for each front door, a revoluble rod passing longitudinally of the device and below the compartments, a coin rest fixedly attached to said rod beneath each compartment capable of receiving a coin passed through a coin slot, means operatable exteriorly of the casing revolving said rod, means whereby the revolution of said rod will cause a coin deposited upon a coin rest to unlock a front door, means inoperative from the front of the casing and operative from the rear of the casing for locking each front door, means preventing the insertion of a coin into a coin slot when its front door is open and a door covering the rear openings of the compartments.

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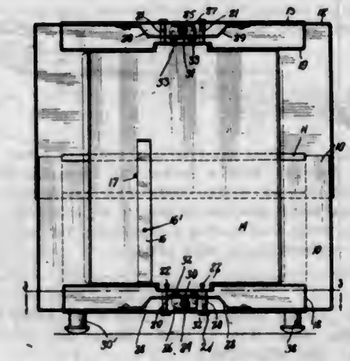
1,695,440. GUN SIGHT. JOHN H. REDFIELD, Denver, Colo., assignor to Frank P. Kellogg, Denver, Colo. Filed Aug. 14, 1926. Serial No. 129,119. 5 Claims. (Cl. 33—54.)



3. In a gun sight, a base block provided with a groove for receiving a leaf spring, said groove having an arcuate bottom and the extremities of said bottom where it merges with the surface of the block being inwardly-turned whereby to engage the ends of a leaf spring and retain the same in said groove.



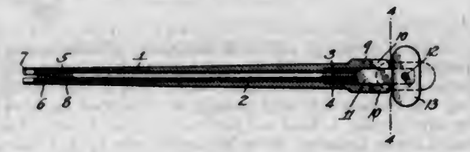
1,695,441. LOOSE-LEAF CONTAINER. SAMUEL S. REESE, Brooklyn, N. Y. Filed Oct. 2, 1926. Serial No. 139,102. 7 Claims. (Cl. 129—43.)



1. A tray for holding loose leaves comprising a box-like member, the said member having a laterally movable side wall and means adapted to adjust the distance between said side walls and to hold them in adjusted position.

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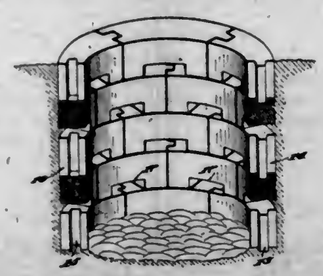
1,695,442. HAIR CURLER. LEOPOLD STEINER, Brooklyn, N. Y., assignor to John M. Ohlenbusch, New York, N. Y. Filed Jan. 24, 1925. Serial No. 4,473. Renewed May 14, 1928. 12 Claims. (Cl. 132—34.)



1. A hair curler comprising two relatively rotatable spindles having portions arranged one within the other, one of said spindles being provided at an end with a locking recess, the other spindle extending beyond the first-named spindle at said end, and means pivotally mounted on said extension on an axis transverse to the spindle and rotatable about said axis into engagement in said recess to lock said two spindles against relative rotation.

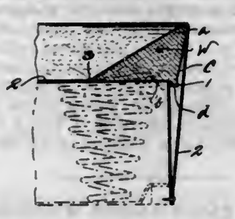
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1,695,443. BUILDING BLOCK. GILBERT STUDLEY, Jr., Yarmouth, Mass. Filed Sept. 16, 1927. Serial No. 219,878. 3 Claims. (Cl. 210—6.)



2. A molded cementitious block for the purpose specified, comprising a curved elongated block having a tongue at one end and a groove on the other, and provided in its bottom wall with an elongated drainage slot extended through the body thereof, said slot being provided with beveled end walls for the purpose specified.

1,695,444. UPHOLSTERING WELT. JAMES W. TREW, Baltimore, Md. Filed July 14, 1927. Serial No. 205,685. 3 Claims. (Cl. 155—184.)



1. In combination with a member provided with a side face, a welt mounted upon said member and having a marginal bead providing a shoulder for contact with the side face of said member, and a lamination secured to said member and disposed over the applied welt, means for connecting the lamination to the member adjacent to the inner marginal portion of the applied welt and to the side face of the member at a point away from the welt.

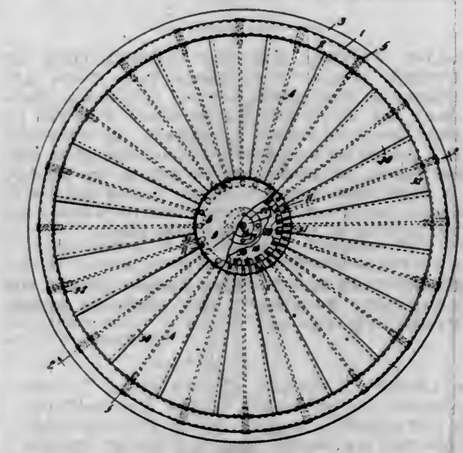
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1,695,445. FOOD PRODUCT. HOWARD F. WEISS, Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn., a Corporation of Delaware. Filed Apr. 20, 1918. Serial No. 220,760. 2 Claims. (Cl. 99—11.)

2. A stock food comprising the composite sugar products of hydrolysis of western larch wood, including galactose, in a concentrated state and in admixture with finely divided hydrolyzed larch wood residue.

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1,695,446. COOLING-SYSTEM CONTROL. FREDERICK W. WESTON, Chicago, Ill. Filed June 8, 1922. Serial No. 566,884. 9 Claims. (Cl. 123—174.)



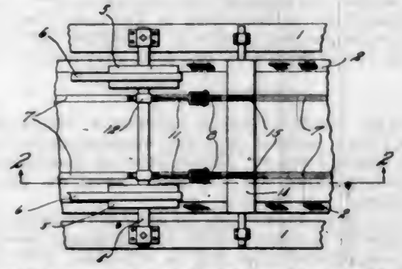
1. In an apparatus for automatically controlling the temperature of internal combustion engines, the combination with a cooling system, including a radiator adapted to have a motor-cooling fluid circulate therethrough, said radiator being subject to a cooling air current for cooling said fluid; of means for cutting off the air current comprising an annular series of shutter blades, each of said blades being rotatable on a longitudinal axis thereof; a heat responsive device associated with said cooling system so as to be in the circulatory path of said fluid; and suction operated mechanism controlled by said device for operating said means to rotate said blades to adjust the same and thereby regulate the temperature of the engine.

1,695,447. CATALYST FOR SYNTHETIC METHANOL PRODUCTION. JOHN C. WOODRUFF, GROVER BLOOMFIELD, and WILLIAM J. BANNISTER, Terre Haute, Ind., assignors to Commerical Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland. Filed Oct. 25, 1926. Serial No. 144,165. 3 Claims. (Cl. 260—156.)

1. A process for the production of synthetic methanol which comprises passing a mixture of hydrogen and carbon oxides at a pressure in excess of 50 atmospheres and at a temperature of 250–450° C. over a catalyst containing nickel reduced at a temperature of 300–950° C.

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1,695,448. PAPER-MAKING MACHINE. LEON M. YOERG, Holyoke, Mass., assignor, by mesne assignments, to American Writing Paper Company, Incorporated, Holyoke, Mass., a Corporation of Delaware. Filed Mar. 21, 1927. Serial No. 177,049. 6 Claims. (Cl. 92—44.)



3. The combination in a Fourdrinier paper making machine of means to reduce the thickness of the material on the Fourdrinier wire longitudinally thereof, with means for engaging the material after the latter has been acted upon by said reducing means to produce an appearance of narrow lines of alternate thin and thicker material in said reduced portion of the material.

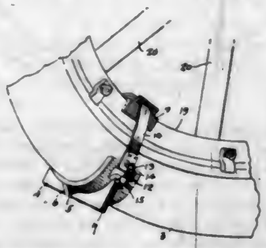
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1,695,449. PROCESS FOR THE MANUFACTURE OF ESTERS. WILLIAM J. BANNISTER, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a Corporation of Maryland. Filed Feb. 18, 1927. Serial No. 169,409. 12 Claims. (Cl. 260—106.)

1. A process for the production of an ester which comprises heating an alcohol and an acid in the presence of a liquid which forms a constant boiling mixture of minimum boiling point with water and the alcohol, and in the presence of a solid dehydrating agent.

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1,695,450. TIRE SHOE. FRANK HERBERT BRYANT, Mill Valley, Calif. Filed May 16, 1927. Serial No. 191,898. 1 Claim. (Cl. 152—14.)



A tire shoe comprising a ground-gripping member, a flexible strap adjustably secured to said member for holding it on a wheel, and a rim protector mounted on the rim of the wheel and having eyelets for slidably receiving a strap, the portion of said protector disposed between said eyelets being rounded, said protector being channel shaped.

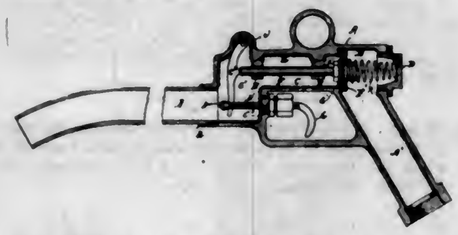
1,695,451. DENTAL MIRROR. EARL F. B. CAMPBELL, New Kensington, Pa., assignor of one-half to Evan J. Francis, New Kensington, Pa. Filed July 18, 1927. Serial No. 206,490. 2 Claims. (Cl. 132—84.)



1. Mirror structure comprising a reflector plate having a holder provided with a socket-like extension disposed at approximately 45° to the plane of the plate, said socket-like portion being adapted to receive a perforated handle of a tooth brush and having a depression for engagement with the perforation in said handle.

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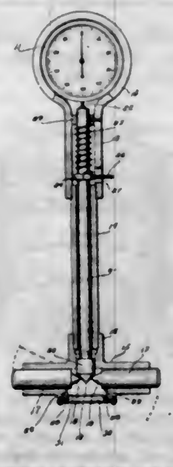
1,695,452. HOSE NOZZLE. ALMUS T. CARNES, Kansas City, Mo. Filed Nov. 1, 1927. Serial No. 230,293. 2 Claims. (Cl. 251—134.)



1. In a device of the class described, a valve housing having a passage therethrough, an annular valve seat shoulder around said passage, valve stem guides extending transversely into said passage, a valve stem supported in said guides, a head on said valve stem, a valve having a screw threaded cavity to receive said head, a sleeve having its interior diameter greater than the diameter of said valve stem and engaging the threads in said cavity whereby said valve is flexibly secured on said valve stem, and a spring between said valve and the closure cap of said passage.

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1,695,453. GAUGE. TSUNAUSKI Z. CARPENTER, Providence, R. I. Filed Mar. 10, 1922. Serial No. 542,612. 2 Claims. (Cl. 33—178.)



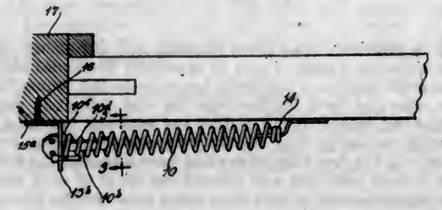
1. A bore measuring indicating gauge comprising an indicator having an operating pin, a transmitting rod



in engagement therewith, a pair of oppositely disposed aligned feelers extending laterally of said rod and having tapered ends engaging the opposite end thereof, a spring for moving the rod into engagement with said feelers, the work-engaging extremities of said feelers being rounded to form a portion of a sphere of substantially the radius of the bore to be measured.

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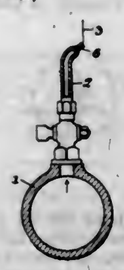
1,695,454. DOOR SPRING. EDWARD J. COYNE, Brooklyn, N. Y. Filed May 23, 1927. Serial No. 193,426. 12 Claims. (Cl. 267—69.)



5. The combination with a spring of the class described of brackets fashioned from sheet metal for supporting the end portions of said spring in connection with predetermined supports, a member movably supported with reference to one of said brackets having a part extending into and secured to one end of said spring for coupling the said bracket to said spring, said bracket being supported in connection with said member under tension, and means for retaining said member in predetermined positions of adjustment with reference to said bracket.

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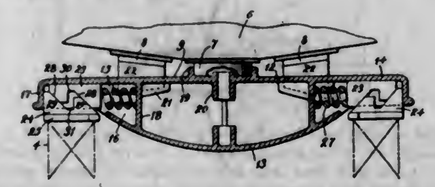
1,695,455. APPARATUS FOR THE MANUFACTURE OF ARTIFICIAL FILAMENTS. JACQUES DELPECH, Rennes, France. Filed Dec. 7, 1925. Serial No. 73,907. 1 Claim. (Cl. 18—8.)



A device for spinning filaments from cellulose solutions comprising a spinneret having its delivery end bent at an angle to the axis of the body thereof and a guide for said filament located in a line substantially parallel to the said axis, so that the filament is caused to change its direction of movement as it issues from said orifice.

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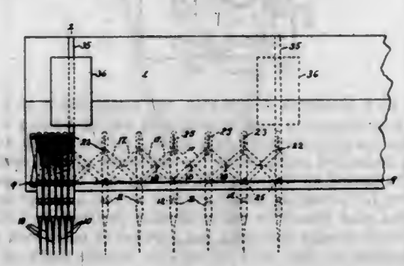
1,695,456. BOLSTER WITH ABSORPTION MECHANISM. PERCY R. DRENNING, Baltimore, Md., assignor to T. H. Symington & Son, Inc., Baltimore, Md., a Corporation of Maryland. Filed Sept. 2, 1927. Serial No. 217,173. 10 Claims. (Cl. 105—185.)



1. In combination, a body bolster having a center plate, a truck bolster having a center bearing closely receiving the center plate, said truck bolster being mounted for lateral motion within a truck, supporting springs beneath the truck bolster, outwardly spring pressed wedge members located within the truck bolster, and wedge members engaged upon the truck springs and cooperating with said first named wedge members.

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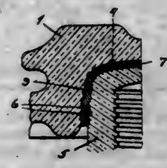
1,695,457. AUTOMATIC PEN-SETTING ATTACHMENT. MERRITT E. DUNCAN, Atlanta, Ga. Filed July 13, 1927. Serial No. 205,519. 3 Claims. (Cl. 33—45.)



1. Automatic pen setting mechanism comprising a support having a groove therein, a series of bars, pens carried by the bars, cross bars with bolts passing through both said bars and cross bars and extending into the groove in the support and having means thereon to clamp the edges of the groove.

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1,695,458. INSULATOR. WALTER T. GODDARD, Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Jan. 6, 1923. Serial No. 611,132. 5 Claims. (Cl. 22—202.)



1. The method of connecting an insulating unit to an adjacent member which consists in assembling said unit and said member in nested relation with spacing means therebetween, and finally connecting adjacent surfaces of said unit and member at spaced intervals by pouring molten metal therebetween.

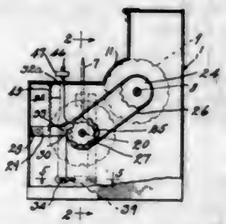
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1,695,459. ARCH BRICK. RALEIGH J. HIMMELRIGHT, New York, N. Y., assignor to American Arch Company, a Corporation of Delaware. Original application filed May 23, 1922, Serial No. 568,043. Divided and this application filed Jan. 8, 1925. Serial No. 1,146. 5 Claims. (Cl. 110—87.)



1. A refractory member composed of laminæ of different lengths.

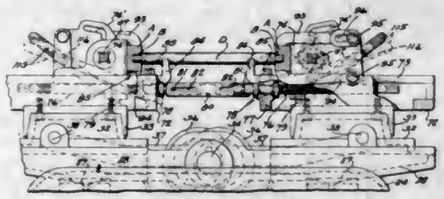
1,695,460. TOOTHPICK DISTRIBUTOR. JOSEPH IWANICKI, Detroit, Mich. Filed Aug. 11, 1927. Serial No. 212,167. 5 Claims. (Cl. 312—84.)



1. In a toothpick distributor, the combination of a casing, a container in said casing, said casing having a discharge opening therethrough, means for conveying toothpicks from said container to the underside of said opening, a slide having an inclined face at its upper end, an operating rod for actuating said conveying means, a spring for returning said operating rod to normal position, and means connected to said operating rod adapted to move said slide downwards so that its inclined face presses down on one end of a toothpick under said discharge opening and moves the latter into an inclined position projecting partly through said opening as said rod is returned to normal position.

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1,695,461. EXTENSION-LADDER-ASSEMBLING MACHINE. JOHN E. KALGREN, Minneapolis, Minn., assignor to J. R. Clark Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 14, 1927. Serial No. 205,828. 16 Claims. (Cl. 144—2.)



1. In an extension ladder assembling machine, two rows of squeezing abutments, operating means for moving at least one row of said abutments alternately toward and from the other row thereof, rung supports between the two rows of squeezing abutments, and automatic means for transversely centering a pair of ladder side bars in respect to the rung supports.

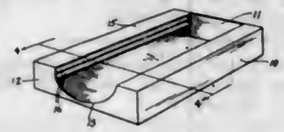
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1,695,462. CHAIN. REINHARD KOLLMAR, Irvington, N. J., assignor to Forstner Chain Corporation, Irvington, N. J., a Corporation of New Jersey. Filed Sept. 14, 1926. Serial No. 135,424. 5 Claims. (Cl. 59—80.)



5. An ornamental chain having elongated loop links, decoration for said links comprising a U-shaped member having a reduced central connecting portion, slots formed in the sides of said U-member, an elongated notched bar positioned in the loop link and protruding each side thereof, the protruding portions of said bar extending into the slots in the U-member, the free ends of the U-member being seated in the notches of said elongated bar, and a ring link engaging the reduced connecting portion of the U-member to connect each adjacent elongated link of the chain.

1,695,463. DISPLAY AND VENDING DEVICE. DAVID LIPSCHUTZ, Louisville, Ky., assignor to The L. & R. Company, Louisville, Ky., a Corporation. Filed Dec. 14, 1925. Serial No. 75,338. 2 Claims. (Cl. 206—44.)



1. A relatively open faced shipping and dispensing carton including a back, a pair of oppositely positioned sides connected thereto, a relatively imperforate end connecting the sides and back together, another and oppositely positioned end connected to the sides and back and including a central cut out portion therein with edges extending outwardly to the free edge of the end from adjacent the back and toward each side and terminating short of each side, top means secured to said sides along substantially the entire length thereof and extending inwardly towards each other but terminating short of projecting beyond the cut out for display and dispensing purposes, and partition means extending the full length of the carton upon opposite sides and extending inwardly towards each other and terminating short of meeting engagement, the space therebetween registering with the top spacing between the top means and in alignment with the end cut out for display and dispensing purposes.

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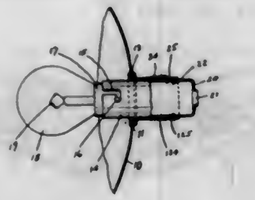
1,695,464. NONGLARE ELECTRIC LAMP FOR HEADLIGHTS. ROBERT P. MCCURDY, Pittsburgh, Pa., and FREDERICK W. HOCHSTETTER, Dayton, Ohio, assignors, by mesne assignments, to said Hochstetter. Filed May 23, 1924. Serial No. 715,406. 1 Claim. (Cl. 176—34.)



An electric filament lamp for use in headlights having the usual central filament projecting from the filament-base, and a light-filtering non-glare shield composed of a piece of ray filtering material supported on a forwardly-projecting offset from the top of said filament-base in front of said filament, for the purpose set forth.

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1,695,465. REFLECTOR-SUPPORTED LIGHT-SOCKET MOUNTING. FREDERICK W. C. NEUNER, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind. Filed Apr. 15, 1927. Serial No. 184,001. 1 Claim. (Cl. 240—41.)

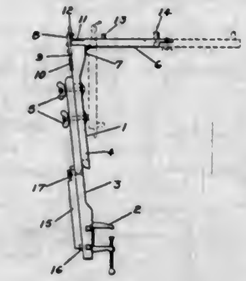


In a lamp structure, the combination with a reflector and a bulb having a filament, of means for removably supporting said bulb in fixed relation in respect to said reflector including a tubular sleeve having a double flanged head extending into and centrally of the reflector, said double flanged head adapted to embrace the adjacent portion of the reflector so as to securely unite said reflector and sleeve, a pair of oppositely disposed spring arms stamped out from the body of said sleeve and provided with latching teeth on the free ends thereof, and a bulb receiving socket extending through said sleeve, the body of said socket being provided with openings for receiving said teeth and causing the same to interlock said socket and sleeve, said latching teeth being arranged oppositely to each other whereby one of said teeth will prevent longitudinal movement between the sleeve and socket in one direction and the other tooth will prevent movement in the opposite direction.



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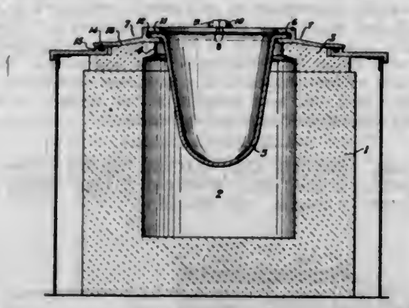
1,695,466. WALL-PAPER BRACKET. WILLIAM O'FARIEL, Braddock, Pa. Filed Oct. 2, 1924, Serial No. 741,146. Renewed May 11, 1928. 3 Claims. (Cl. 216—4.)



1. A bracket comprising a clamp, a vertical support attached thereto, means for varying the height of the support, an arm hinged to the top of the support, a resilient latching means for automatically engaging and retaining the arm in horizontal position when it is moved thereto.

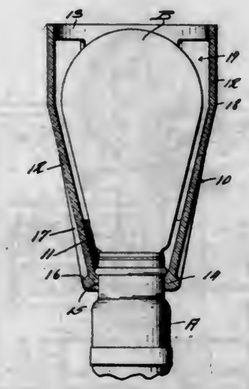
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1,695,467. SUPPORTING AND SEALING MEANS FOR CYANIDE POTS. FREDOLF J. PETERSON, Detroit, Mich. Filed May 3, 1928. Serial No. 274,797. 2 Claims. (Cl. 263—11.)



1. In combination with a pot having a peripheral flange thereon, a ring formed of two separable parts for supporting the pot in a furnace or the like, said ring being provided with an annular channel to receive said flange, and means for compressing a gasket between the flange and channel to form a seal between the pot and ring.

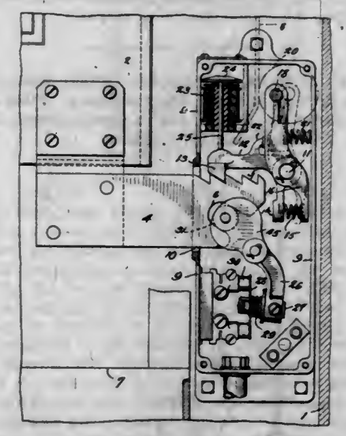
1,695,468. ELECTRIC-LAMP GUARD. ROBERT W. REEVES, Newport, R. I. Filed Aug. 11, 1927. Serial No. 212,814. 4 Claims. (Cl. 240—102.)



1. A guard for electric lamps formed of elastic insulating material, the guard being formed to provide a bulb-enclosing portion and the rear end portion having an aperture to receive an electric lamp socket, the wall of the aperture being elastic so as to be expanded over and to elastically clamp upon the socket.

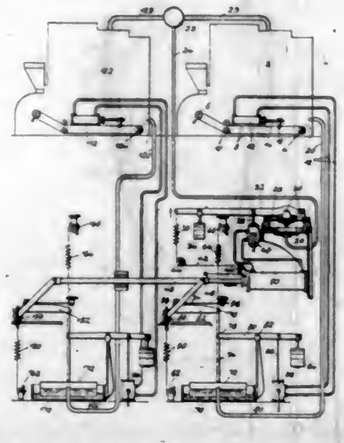
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1,695,469. INTERLOCK FOR ELEVATORS. MARTIN J. ROBERTSON, Louisville, Ky., assignor to American Elevator and Machine Co., Louisville, Ky. Filed Aug. 30, 1926. Serial No. 132,564. 8 Claims. (Cl. 187—31.)



5. A lock for elevator doors including a housing, a member having a longitudinal series of teeth for attachment to a door insertible into the housing when the door is closed, separate contacts within the housing for electrical connection to the car switch, a lever fulcrumed in the housing, means carried thereby for engaging and closing the circuit between the contacts, means for releasing the door upon failure of current, and cooperating means upon the toothed member and the lever for electrically connecting the contacts positively when the toothed member is inserted into the housing and for automatically and positively breaking the connection between the contacts when the toothed member is withdrawn from the housing.

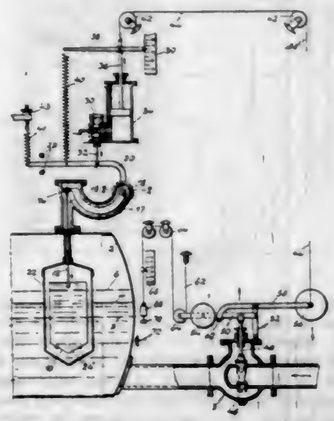
1,695,470. MEANS FOR REGULATING COMBUSTION. ERICH ROUČKA, Blansko, Czechoslovakia. Filed Apr. 20, 1925, Serial No. 24,629, and in Czechoslovakia May 13, 1924. 12 Claims. (Cl. 236—14.)



1. Furnace controlling apparatus comprising means for varying a pressure in a furnace, means movably responsive to said pressure, means including a lever system and spring means associated therewith to produce a variable mechanical force cooperating with said responsive means to balance the same, a governor actuated by cooperation of said responsive means and the third-mentioned means upon departures from balanced relation thereof to control the first-mentioned means, means responsive to variations in the heat demand, and movable means controlled by the last-mentioned responsive means in accordance with variations in the heat demand to cooperate with the third-mentioned means and vary the mechanical force exerted by said spring means upon the second-mentioned means.

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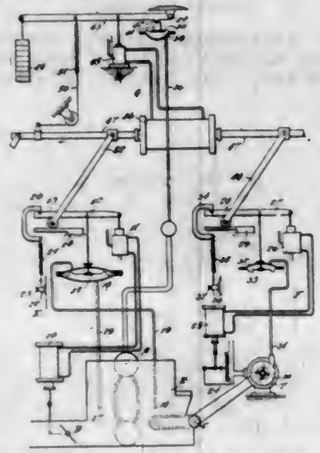
1,695,471. AUTOMATIC LIQUID FEED REGULATOR. ERICH ROUČKA, Blansko, Czechoslovakia. Filed Apr. 20, 1925, Serial No. 24,630, and in Czechoslovakia May 13, 1924. 7 Claims. (Cl. 137—101.)



1. Apparatus for regulating the supply of a liquid to a container, comprising means or controlling the supply of liquid to the said container, means movably responsive to variations in the level of said liquid for producing a mechanical force upon variations in the level of said liquid, means for producing a variable auxiliary force cooperating with said responsive means to balance the same, a governor actuated by and in accordance with departures from balanced relation of said responsive means and the balancing means due to variations in the level of liquid, a pilot motor controlled by said governor, and operative connections between said pilot motor and both said liquid supply controlling means and said balancing means to vary the supply of liquid and to vary said auxiliary force and restore said balanced relation of said responsive means and said balancing means.

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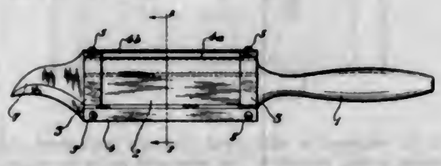
1,695,472. FURNACE-CONTROLLING APPARATUS. ERICH ROUČKA, Blansko, Czechoslovakia. Filed Aug. 23, 1927, Serial No. 214,930, and in Germany Sept. 1, 1926. 8 Claims. (Cl. 236—15.)



1. Furnace controlling apparatus, comprising means for varying the flow of combustion gases in a furnace, means responsive to variations in the pressure of said combustion gases, means cooperating with said responsive means to produce a normally balanced relation, a movable member for varying said relation, means actuated by cooperation of the two last-mentioned means upon departures from said balanced relation to cause actuation of the first-mentioned means, a fuel supplying means, means automatically responsive to the rate at which said fuel supplying means operates, means cooperating with the last-mentioned means to produce a normally balanced relation, a second movable member for varying the last-mentioned relation, means actuated by cooperation of said means responsive to the rate of fuel supply and said means producing a balanced relation to vary actuation of said fuel supplying means, a common means for actuating both of said movable members, and means responsive to a condition variable in accordance with the heat demand on the furnace or controlling actuation of said common means.

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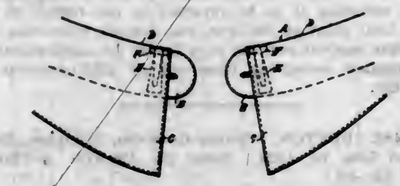
1,695,473. PARING AND SLICING KNIFE. STEFANO SANTILLI, Canton, Ohio. Filed Oct. 2, 1926. Serial No. 139,101. 2 Claims. (Cl. 30—20.)



1. A knife comprising a core portion provided with a plurality of faces, flange portions of different thicknesses at the ends of said faces, and cutting blades secured to said flanges and parallel with said faces.



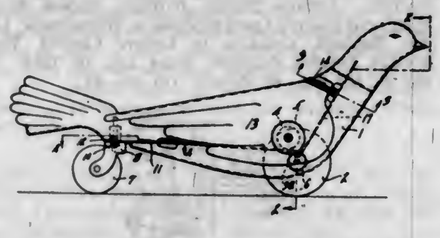
1,695,474. COLLAR. GEORGE THEODORE SWEETSER, New York, N. Y. Filed Apr. 23, 1926. Serial No. 104,115. 3 Claims. (Cl. 2—137.)



2. A soft fold collar comprising a band part and a collar part, a tape positioned near the ends of the collar and band parts, the ends of the tape being secured to the under side of the collar and outer sides of the band parts respectively with the intermediate portion of the tape being relatively loose with respect to the collar and band parts, and a cross strip of fabric bridging the tape intermediate the ends thereof.

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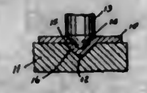
1,695,475. FIGURE WHEELED TOY. FERNAND H. VAUTRIN, Cleveland, Ohio. Filed Oct. 1, 1927. Serial No. 223,436. 3 Claims. (Cl. 46—45.)



3. A bird toy comprising a bird body, a pair of wheels supporting the front part of the body, wings hingedly mounted on the bird body and adapted for flapping movement, a swivelly mounted single wheel upon which the rear part of the body is mounted, said single wheel being mounted on substantially the longitudinal axis of the bird body so as to be adapted for steering, a motor and shaft operated thereby for rotating the front wheels, means operated from said shaft and connected to said wings for flapping same and means operated from said shaft and connected to the swivel mounting of said steering wheel so as to automatically vary the direction of movement of the bird during operation of the same, said connections to the wings and steering wheel being enclosed substantially within the bird body.

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1,695,476. PROCESS OF COUNTERSINKING HOLES IN METAL. LOUIS G. WINKLER, Indianapolis, Ind., assignor to Parts Corporation, Indianapolis, Ind., a Corporation. Filed Dec. 19, 1927. Serial No. 241,023. 1 Claim. (Cl. 29—148.)



The process of countersinking holes in metal plates, consisting of deforming the plate to form a conical recess in one face and a projection upon the opposite face, and thereafter removing the central portion of the recessed portion of the plate and all of the projected portion upon the opposite face.

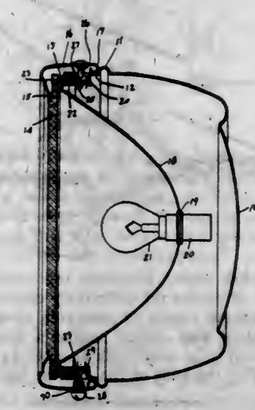
1,695,477. RECEPTACLE. ANTON ZEINDLHOFER, Vienna, Austria, assignor to Groove Lock Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 26, 1928. Serial No. 249,566. 9 Claims. (Cl. 782—83.)



1. A receptacle, comprising a body, a closure therefor, the body having a rim and the closure having a rib which covers said rim, and a sliding catch mounted on said rib to engage and release the rim.

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1,695,478. HEADLAMP CONSTRUCTION. EDWARD C. ALBRIGHT, Connersville, Ind., assignor to Indiana Lamp Corporation, Connersville, Ind., a Corporation. Filed Mar. 28, 1927. Serial No. 178,834. 1 Claim. (Cl. 240—41.)



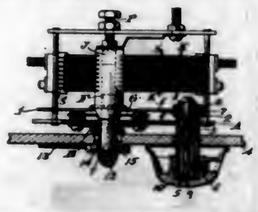
In a head lamp having a reflector and a closure and including a casing and a door rim nonrotatively connected together, the combination of a locking connection therebetween comprising an annular seat on the casing telescoped by the rim and teleacopically receiving the reflector, said rim bearing on the reflector through the closure, a plurality of depressions in said seat extending inwardly and engageable by the reflector for limiting inward movement thereof, and inwardly extending members carried by said rim and radially receivable by and extending into said depressions, said members and said depressions having a radially and inwardly directed wedging engagement for drawing the rim casing, closure and reflector together in clamped relation, one of said members being relatively and radially movable with respect to the rim for independent movement toward and away from the adjacent depression for rim and closure connection and disconnection.

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1,695,479. CONDENSER. MORRIS H. BENNETT, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 26, 1926. Serial No. 97,529. 3 Claims. (Cl. 74—7.)

1. In an electrical tuning device the combination with a rotor shaft, a slow-motion driven member connected to

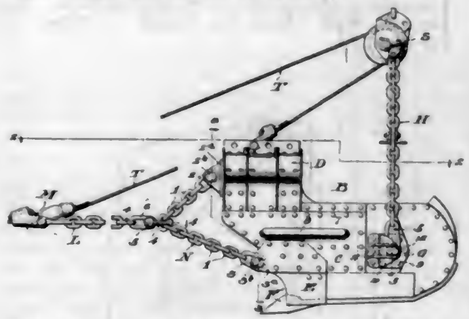
the rotor shaft, said member having a curved margin concentric with the rotor shaft, of a slow-motion driving mechanism comprising two friction disks of compressible elastic material arranged one on each side of the member



to contact with the opposite sides of the latter, a spacing member between the said disks, a screw passing through the disks and spacing member, a shaft into the end of which said screw is threaded, and means for rotating said shaft.

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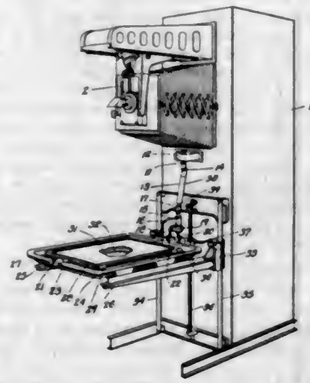
1,695,480. DRAG-LINE EXCAVATOR. CHESTER D. BUOY, Erie, Pa., assignor to G. H. Williams Company, Erie, Pa., a Corporation of Pennsylvania. Filed Oct. 30, 1926. Serial No. 145,258. 4 Claims. (Cl. 37—135.)



1. A drag-line bucket including the combination with a loading bail, of means for adjustably connecting the loading bail to spaced points at each side of the bucket, said means including side chains having a plurality of links therein adapted to be selectively engaged by connecting devices carried by the ends of the loading bail.

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1,695,481. PHOTOGRAPHIC COPYING MACHINE. ARTHUR W. CAPS, Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed June 26, 1925. Serial No. 39,753. 8 Claims. (Cl. 88—24.)



1. In a photographic copying machine, the combination with a camera body embodying a lens, of a reversible support for sensitized sheet material mounted within the casing in the focal plane of the lens, said holder being rotatable about a fixed axis, a multiple-faced copy holder arranged exteriorly of the camera body and having central pivots adapting it to be reversed in the region of the other focal point of the lens, and gearing connecting the reversible support and the copy holder for communicating synchronized movement from one of said elements to the other.

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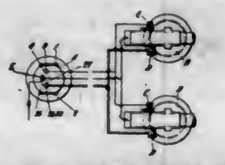
1,695,482. BUTTON. ERNEST CAVICCHI, Arlington, Mass. Filed June 16, 1927. Serial No. 199,373. 9 Claims. (Cl. 24—96.)



1. A button having a one-ply body portion provided on its back with two overlapping thread loop retaining arms, one situated between the body portion and the other arm, which arms form with the back of the body an eye to receive a loop of thread by which the button is anchored in place.

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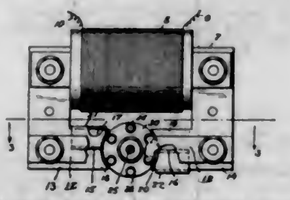
1,695,483. MEANS FOR USE IN THE LAYING OF ORDNANCE. ARTHUR TREVOR DAWSON, GEORGE EDWIN WATT, and ARTHUR LEONARD PERHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Aug. 13, 1920. Serial No. 403,432. 68 Claims. (Cl. 89—41.)



61. In a fire control system, an apparatus to be controlled from a distant station, controlling mechanism at the station including a pair of sighting devices adapted to be cooperatively actuated in train and elevation, transmitting means at the station operable from the actuation of the devices in train, means jointly responsive to the transmitting means and the corresponding movement of the apparatus for indicating the relative train of the sighting devices and the apparatus, and means for modifying the indications of the indicating means in accordance with correctional alterations in the relation between the devices and the apparatus.

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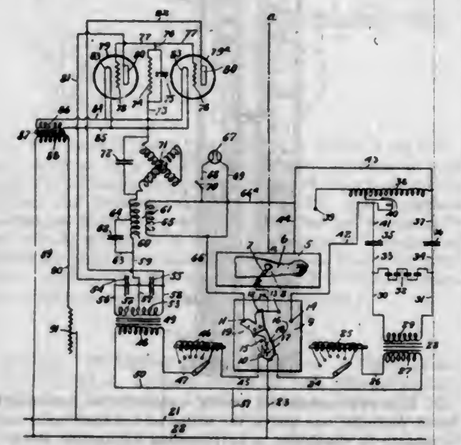
1,695,484. SELF-STARTING SYNCHRONOUS INDUCTION MOTOR. CHARLES FAYER, Flushing, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed May 2, 1924. Serial No. 710,534. 2 Claims. (Cl. 172—278.)



1. A single phase induction-synchronous motor comprising a primary member having means for producing a strongly pulsating, shifting magnetic field, and a secondary member carrying a squirrel cage winding, the squirrel cage winding being composed of tubular conductors of such cross-section as to give the secondary member a salient pole effect.



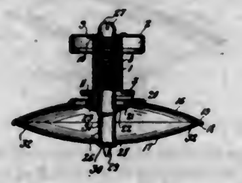
1,695,485. ELECTROSURGICAL APPARATUS. CHARLES FAYER, Flushing, N. Y., assignor to Wappler Electric Company, Inc., a Corporation of New York. Filed Aug. 6, 1924. Serial No. 730,359. 11 Claims. (Cl. 174—177.)



1. In an electro-surgical apparatus the combination of mechanism for producing damped oscillations, mechanism for producing undamped oscillations, a surgical electrode common to both of said mechanisms, and a switch connected with both of said first mentioned mechanism and with said surgical electrode, for enabling said surgical electrode to be energized by said first mentioned mechanisms alternately.

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1,695,486. TOP. ELMER W. GIBBS, Canton, Ohio, assignor to The Gibbs Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Feb. 17, 1926. Serial No. 88,759. 2 Claims. (Cl. 46—32.)



1. In combination with a spinning top having a stem and a body portion thereon, said body portion having an aperture and a series of indentations in its upper side, a twisting head including a spring barrel, a disk permanently attached at each end of the barrel, a peripheral flange upon the upper disk, a toothed flange upon the lower disk for engagement with said indentations, and a twisting spring in the barrel connected thereto at its upper end, the lower end of the spring being received in said aperture.

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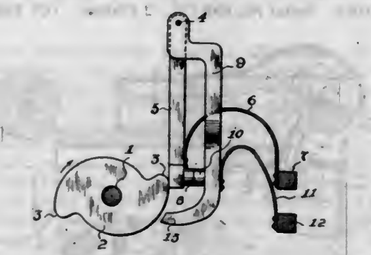
1,695,487. WRIST-WATCH STRAP. ART HADLEY, Providence, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 18, 1927. Serial No. 184,548. 1 Claim. (Cl. 24—71.)



In combination with a wrist watch strap, extensible strap-connecting means comprising a cover plate having side walls, means for securing a section of the strap between said side walls adjacent one end of the cover plate, an intermediate connector plate pivoted between said side walls adjacent the opposite ends of the cover plate, a second substantially flat connector plate hinged at one end to said intermediate plate and connected at its opposite end to a second strap section, the intermediate connector plate having a centrally disposed aperture adjacent its cover plate pivot, and a centrally disposed stud fixed in the other connector plate adjacent its strap connection and adapted frictionally to engage said aperture when the parts are in overlapped relation, thereby to lock said connector plates together.

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1,695,488. CIRCUIT-CONTROLLING MEANS. THOMAS RANDOLPH HARRISON, Philadelphia, Pa., assignor to Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 4, 1924. Serial No. 717,901. 4 Claims. (Cl. 200—30.)



1. In combination, a lever, carrying a contact, a second lever carrying a contact, a rotating cam member, spring means for urging said levers into cooperation with said cam members, said cam member having a single steep sloping side cooperating with said spring means to move said contacts to engage and disengage each other with a snap action.

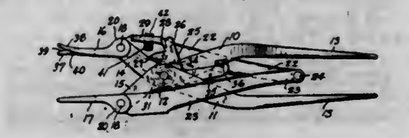
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1,695,489. PROCESS OF CURING RIPE OLIVES. GEORGE S. HEWETT, Corning, Calif. Filed Dec. 28, 1925. Serial No. 78,000. 4 Claims. (Cl. 99—11.)

1. The herein described process of treating olives from which the natural bitterness has been removed comprising immersing them in a boiling brine, removing them from the boiling brine and subjecting them to a high heat until crisp.

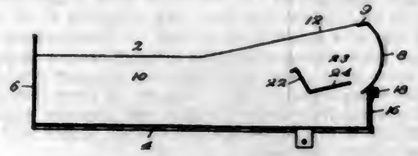
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1,695,490. VALVE LIFTER. WILLIS F. HOBBS and JOHN A. ANDERSON, Bridgeport, Conn., assignors to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn., a Corporation of Connecticut. Filed Feb. 17, 1928. Serial No. 254,946. 6 Claims. (Cl. 29—86.3.)



1. In a valve lifting tool, a pair of levers pivoted together including handles on one side of the pivot and extensions on the opposite side of the pivot arranged to move away from each other as the handles are moved together, jaws pivoted to said extensions and each having an arm extending beyond the pivot between the levers, and a pivot connecting said arms.

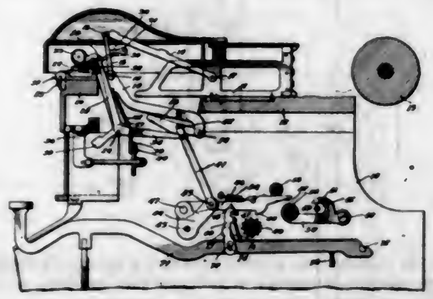
1,695,491. VEHICLE BODY. JOSEPH L. HOGLAND, Kansas City, Mo., assignor of one-half to Harry P. Thomson, Kansas City, Mo. Filed Feb. 3, 1928. Serial No. 251,605. 7 Claims. (Cl. 83—73.)



1. In combination, a vehicle body adapted to carry and discharge a previously mixed composition, and means extending entirely across said body for remixing the composition during the discharging operation.

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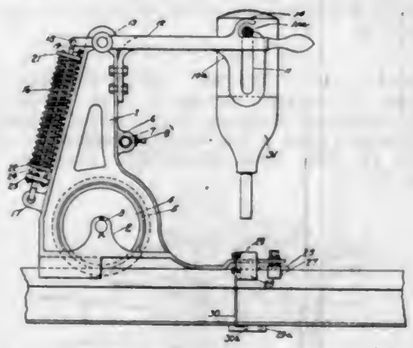
1,695,492. TYPEWRITER. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Mar. 17, 1924. Serial No. 699,727. 2 Claims. (Cl. 197—17.)



1. The combination with a sliding type carrier, of a vertically movable member for actuating said type carrier, a power drive, a horizontally movable actuator arranged to engage said power drive, a pivoted member connected with said actuator, and a link connecting said pivoted member and said vertically movable member.

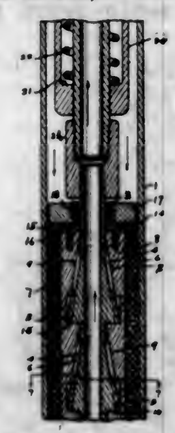
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1,695,493. CARRIAGE FOR DRILLING MECHANISM. EDWARD C. HOLMES, Cincinnati, Ohio. Filed July 16, 1925. Serial No. 43,985. 4 Claims. (Cl. 144—32.)



1. A screw spike driver carriage comprising, an upright member provided with a carrying wheel, a forked frame member secured to the upright member, vertical slots in the forked frame adapted to guide spider arms of a drilling mechanism or the like, and a pivoted rocker arm member with forked arms in alignment with the forked frame member extended so as to carry spider arms within the guiding slots.

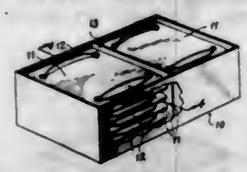
1,695,494. SWAB. GRANVILLE A. HUMASON, Houston, Tex. Filed June 21, 1926. Serial No. 117,467. 4 Claims. (Cl. 74—109.)



1. In a swab a mandrel having a plurality of downwardly flared sections, one above the other and whose lower ends terminate in shoulders, a surrounding expansible sleeve, a plurality of expansible sections around the mandrel having inside faces which work against the mandrel sections and formed with shoulders which oppose the shoulders of the mandrel, the lower ends of said expansible sections having upwardly facing grooves into which the lower end of the sleeve fits.

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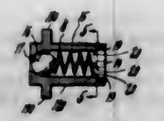
1,695,495. SHAPE-RETAINING PACKING DEVICE. BENJAMIN IKOWSKY, Brooklyn, and JULIUS JOSEPHS, Bronx, N. Y. Filed Sept. 23, 1927. Serial No. 221,438. 8 Claims. (Cl. 223—18.6.)



1. A cap-package comprising a relatively stiff flat member having a pair of elongated slits extending on opposite sides of a mid-portion thereof, and a cap having creased portions inserted in said slits, the crown of the cap abutting said mid-portion.

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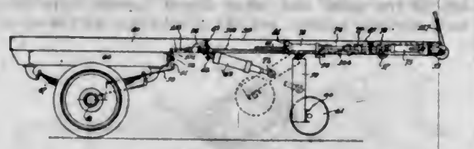
1,695,496. METHOD OF MAKING GREASE CUPS. RAYNALDO P. JACQUES, Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y., a Corporation of New York. Filed June 7, 1927. Serial No. 197,130. 4 Claims. (Cl. 29—156.)



1. The method of making a nipple-shaped grease cup, which consists in forming a one-piece bar of indeterminate length, including a substantially cylindical body portion and longitudinally extending wings integral with the body portion and projecting from opposite side portions thereof, transversely severing said bar to form a blank for a single cup, removing portions of the wings from the blank to leave bayonet-joint studs on the body portion, screw-threading an end portion of the blank, and providing the blank with a longitudinal bore.



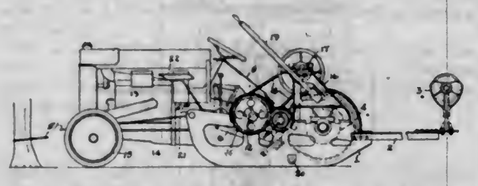
1,695,497. HYDRAULIC-CONTROLLED TRAILER LEG. CHARLES H. LAND, Detroit, Mich. Filed Mar. 16, 1927. Serial No. 175,744. 11 Claims. (Cl. 280—33.1.)



1. In a tractor trailer combination, a trailer, a leg structure adapted to be raised and lowered relative to said trailer, a hydraulic mechanism on said trailer adapted for raising and lowering said leg structure, said hydraulic mechanism including pivoted leg cylinders and reciprocable piston rods connected to said leg structure, a tractor, and means on said tractor engageable with said hydraulic mechanism adapted to actuate said hydraulic mechanism when said tractor is backed relative to said trailer.

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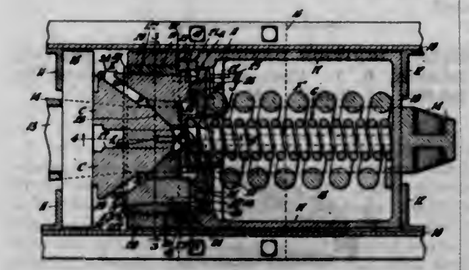
1,695,498. WINDING ENGINE. JOHN R. MCGIFFERT, Duluth, Minn., assignor to Clyde Iron Works, Duluth, Minn., a Corporation of Maine. Filed Dec. 16, 1925. Serial No. 75,712. 8 Claims. (Cl. 254—166.)



1. In apparatus of the character described, the combination of a winding drum, means for supporting said drum and for supporting the traction end of a motor-driven vehicle, said means comprising a skid non-rigidly and rockably connected to such vehicle by bearings adapted to receive the rear axle of such vehicle, means for communicating power from such axle to the said drum, and an outrigger and cable-guide projecting from the skid at one end.

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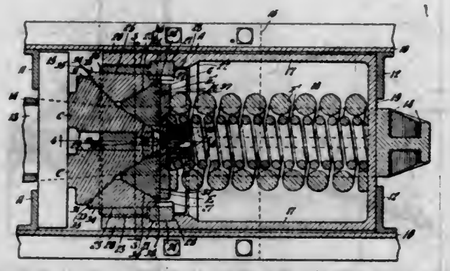
1,695,499. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 23, 1927. Serial No. 207,946. 11 Claims. (Cl. 213—31.)



1. In a friction shock absorbing mechanism, the combination with a combined friction shell and spring cage; of a central friction element; a pair of wedge pressure transmitting members movable relatively to the central element and having frictional engagement with said central friction element; a plurality of friction shoes cooperating with said wedge pressure transmitting members, said shoes having sliding frictional contact with each other, certain of said shoes having frictional engagement with the shell; and spring resistance means opposing inward movement of the shoes.



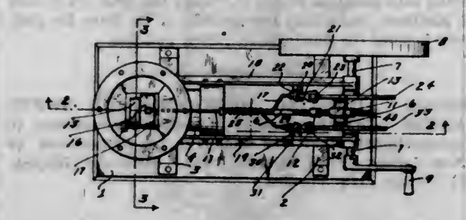
1,695,500. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 23, 1927. Serial No. 207,945. 5 Claims. (Cl. 213—31.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having interior friction surfaces; of friction shoes cooperating with said shell friction surfaces; a friction post; wedge pressure transmitting means movable relatively to the post and having frictional engagement therewith, said wedge pressure transmitting means and friction shoes having cooperating wedge faces; wedge blocks having wedging engagement with the friction shoes and wedge pressure transmitting means; and spring resistance means opposing relative movement of said shell and wedge blocks.

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1,695,501. AUTOMATIC VOLUMETRIC-MEASURING DEVICE. BERNHARD OPITZ, Portland, Oreg. Filed Oct. 20, 1925, Serial No. 63,656. Renewed May 14, 1928. 3 Claims. (Cl. 221—103.)



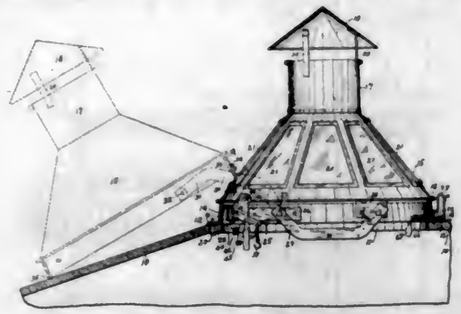
1. In an automatic volumetric measuring device, a cylinder, a cylinder head threadable to one end of the cylinder, a piston reciprocable within said cylinder, a revolubly mounted crank, a piston rod secured to said piston at its one end and to said crank at its opposite end, an inlet and an outlet port for said cylinder, valves to open and close said ports, a valve stem, a rocker arm and a revolving cam to close each of said valves, compression springs to open said valves, said cams being mounted on said crank shaft and having their cam surfaces oppositely disposed to close said valves oppositely, and means upon said piston rod to vary the stroke of said piston.

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1,695,502. CAP FOR SILOS. WILLIAM A. PARSONS, Fort Atkinson, Wis. Filed July 2, 1927. Serial No. 203,052. 8 Claims. (Cl. 98—1.)

1. The combination with an apertured roof structure, of a cap adapted to normally cover the aperture in the roof, and a set of substantially parallel links connecting the cap with the marginal portions of the roof, said links being

pivotally secured to the cap on the opposite side of a transverse diametrical center line from that at which the links are connected with the roof, and the central portions of the



links being downwardly offset to allow a bodily shifting movement of the cap to one side of the aperture without inversion.

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1,695,503. ADJUSTING MECHANISM FOR SWEEP RAKES. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 26, 1924. Serial No. 752,287. 22 Claims. (Cl. 56—398.)



1. In a rake, the combination of a frame, a rake platform pivoted thereto, a bracket pivoted to the frame, adjusting members carried by the bracket and connected to the platform, a lever on the bracket for adjusting the platform, an assisting means normally spaced from the lever, means for moving said assisting means to engage the lever for raising the platform, and means independent of the lever for positively locking the platform in raised position.

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1,695,504. ADJUSTING MECHANISM FOR SWEEP RAKES. CHARLES PEARSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed Nov. 26, 1924. Serial No. 752,288. 17 Claims. (Cl. 56—398.)



1. In a hay rake, the combination of a frame, a rake platform mounted thereon for up and down movement, a lever on the frame for adjusting the platform to raised position, means on the frame for assisting the lever to adjust the platform to this position, and means on the lever independent of the assisting means and operative upon movement of the lever by the assisting means for locking the lever to retain the platform in raised position.

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1,695,505. BRACELET CHAIN. EUGEN PRESTINARI, Irvington, N. J., assignor to New Jersey Chain Corporation, Newark, N. J., a Corporation of New Jersey. Filed Nov. 10, 1927. Serial No. 232,427. 4 Claims. (Cl. 59—79.)

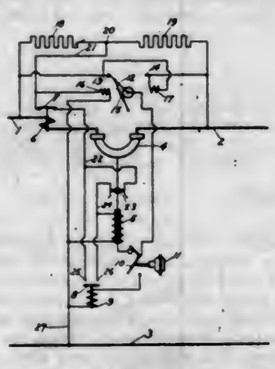
1. A bracelet chain structure comprising a series of extendible link units each having a guide link formed of sheet stock folded to provide front, rear and side walls and a narrow connecting neck portion forming part of one end wall, portions of the side walls at the opposite end of the guide link being folded inwardly providing hook-receiving pockets, one end of said rear wall being de-



pressible and arranged to control the entrance to said hook-receiving pockets to permit the passage of the hooks to and from said pockets and a slide link in said guide link having laterally extending hook portions shaped to enter and leave said pockets in the next adjacent guide link when the rear wall thereof is depressed.

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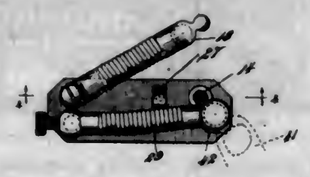
1,695,506. AUTOMATICALLY-RECLOSING CIRCUIT BREAKER. ESTELL C. RANEY, Columbus, Ohio. Filed Mar. 17, 1922. Serial No. 544,410. 25 Claims. (Cl. 175—294.)



1. In a system of electrical distribution having a plurality of sections, an automatically reclosing circuit breaker for connecting adjacent sections, a means for controlling reclosing of said breaker, and a means automatically responsive to change of direction of potential drop across adjacent sections to effect operation of said controlling means from the section having the lower potential.

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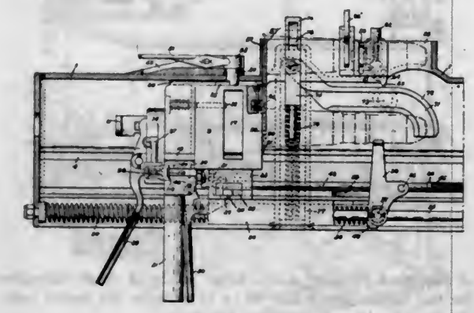
1,695,507. IGNITION DEVICE. JOSEPH M. REDINGER, Johnston, R. I. Filed July 18, 1927. Serial No. 206,503. 11 Claims. (Cl. 67—71.)



8. In an ignition device, a fuel reservoir, a wick extending therefrom, pyrophoric means for igniting the wick, a cover for said wick, means for hingedly supporting said cover including a resilient flexible section, a retaining post on the reservoir for holding said supporting means and cover in wick-covering position, said flexible section permitting the supporting means and cover to be lifted from covering position and swung to one side to expose the wick.



1,695,508. AUTOMATIC GUN. ASA H. SKINNER, Watervliet, and HENRY J. STAMBAUGH, Troy, N. Y. Filed Dec. 22, 1924. Serial No. 757,498. 39 Claims. (Cl. 89—3.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

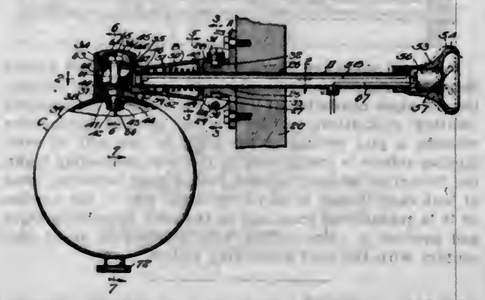


11. The combination of a cradle, a barrel therein having a breech formed with sockets, a movable breech block for the barrel, a breech lock including a pair of locking members pivoted in the block and adapted to fit in the barrel sockets, and means for actuating the breech lock in opening and closing.

37. A gun barrel, a breech block separable from the barrel, a breech lock in the block, means for actuating the breech lock and means carried by the block for holding the lock in unlocked position.

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1,695,509. DIRIGIBLY-MOUNTED LIGHT. CLIFFORD SKLAREK, Chicago, Ill., assignor to International Spotlight Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 29, 1921, Serial No. 504,194. Renewed June 9, 1928. 15 Claims. (Cl. 240—61.)

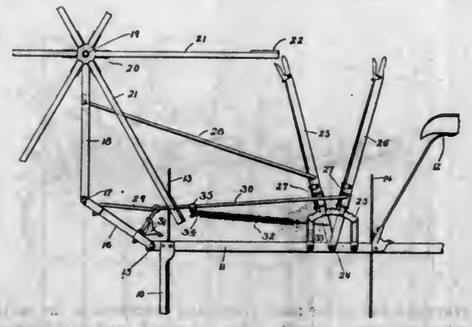


1. In a dirigible light, the combination with a supporting housing mounted for rotation about one axis and having driving means secured thereon, of a light holder mounted for rotation about an axis disposed at an angle to said first axis and having driving means secured thereon; and an operating member extending into said housing having a plurality of operating means fixed thereon, said means being shiftable into operative relation with the driving means on said support or said holder.

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1,695,510. ADJUSTING MECHANISM FOR HARVESTER REELS. DANIEL W. SMITH, Oak Park, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed May 3, 1926. Serial No. 106,191. 3 Claims. (Cl. 56—221.)

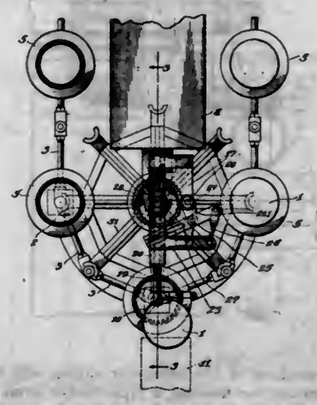
3. In a harvester having a frame, the combination of a reel carried by a support pivoted on the frame for up and down and fore and aft movement, a lever, a connection from the lever to the reel support for moving the reel fore and aft, a second lever, a connection therefrom to the reed support for moving the reel up and down, an anchor member



slidably carried on the second connection including a lock means, and a spring connected to the first lever and to said lock means, whereby the pull of the spring actuates said lock means to secure the anchor member on said second connection.

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1,695,511. DISCHARGE MECHANISM FOR PIE MACHINES AND THE LIKE. DENNIS W. SMITH, Wilmette, Ill., assignor to Colborne Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 28, 1927. Serial No. 194,991. 6 Claims. (Cl. 107—1.)



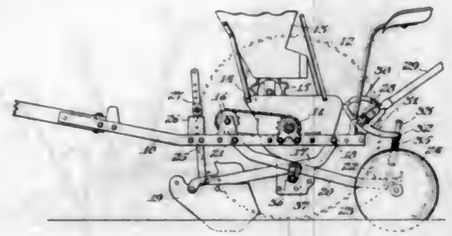
3. In a pie machine having pie supports mounted to travel about a fixed center, ejector means for cooperating with said supports, said means being mounted for adjustment about said center and having a positive driving connection with said supports so as to register with each support in any part of the adjusted positions.

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1,695,512. FRAME-ADJUSTING MEANS. JOHN STUBROCK, Chicago, Ill., assignor to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 9, 1924. Serial No. 731,059. 2 Claims. (Cl. 97—237.)

1. An implement of the class described comprising, in combination, a wheel supported main frame, an earth working element positioned near the rearward end of the main

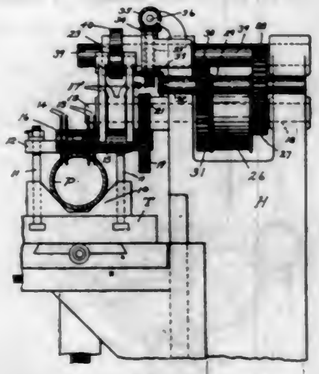
frame, a dragbar pivoted to the main frame and extending rearwardly to the earth working element, a furrow former positioned underneath the forward part of the main frame, a push bar pivoted near the rearward end of the main frame and extending forwardly to the furrow former, elevating and depressing means mounted on the



rearward end of the main frame and connected to the earth working element so as to raise or lower it, and anti-friction means secured to one of said bars and extending into the path of movement of the other bar so as to cause the earth working element and the furrow former to partake of joint and simultaneous upward movement.

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1,695,513. PIPE-SLOTTING MACHINE. BERTRAM C. TRAVIS, Los Angeles, Calif., assignor of one-half to Mark Levy, Los Angeles, Calif. Filed May 1, 1924. Serial No. 710,394. 2 Claims. (Cl. 29—69.)

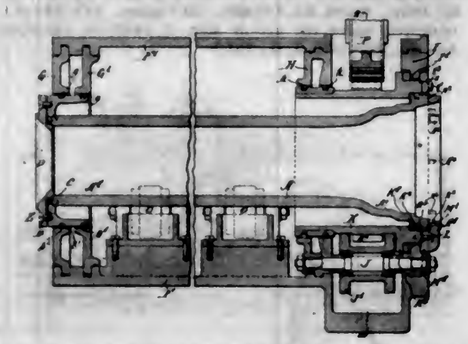


1. In a machine of the character shown and described, including means for holding a pipe, rocker arms movably mounted to be moved to and from said pipe, pipe slotting tools carried by said arms, means for driving said pipe slotting tools, means for moving said arms toward said pipe to force aid cutting tools into said pipe, said tools being spaced from each other transversely of the axis of said pipe, whereby said pipe can be turned to position the cut made by one tool in position to receive the other tool, for the purpose described.

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1,695,514. CENTRIFUGAL PIPE-CASTING MACHINE AND MOLD. JOHN H. UHRIG, Beverly, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Nov. 23, 1926. Serial No. 150,208. 3 Claims. (Cl. 22—65.)

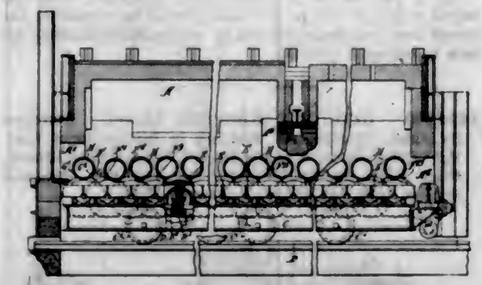
1. In a centrifugal pipe casting machine a casing forming a water jacket surrounding the mold, in combination with a bell ended pipe mold revolvably supported in the casing, and means connected to the bell and spigot ends



of the mold forming water tight joints of equal diameter for the water jacket and so as to balance the water pressure and avoid end thrust on the mold.

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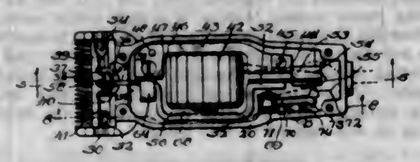
1,695,515. TRANSPORTING MECHANISM FOR PIPE-ANNEALING FURNACES. JOHN H. UHRIG, Beverly, N. J., assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J., a Corporation of New Jersey. Filed Dec. 28, 1926. Serial No. 157,450. 3 Claims. (Cl. 214—18.)



1. In an annealing furnace for cast iron pipes having means for supporting, rotating and progressively advancing the pipes consisting of a multiple series of overlapping rotating cylindrical rollers having notched peripheries whereby a pipe resting in the bight of one pair of overlapping rollers is transferred to the next succeeding bight, the formation of said notches with a pipe retaining crest at both ends thereof so as to retain the pipe in the notches as it is transferred from one to the next succeeding bight and prevent it from rolling with accelerated speed into contact with the next succeeding rollers.

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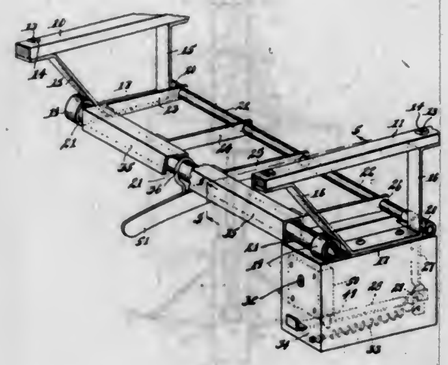
1,695,516. CLIPPER. WILLIAM J. VAN OSDEL, Chicago, Ill. Filed Dec. 27, 1926. Serial No. 157,069. 23 Claims. (Cl. 30—1.)



1. A device of the character described including a support, a reciprocable blade mounted on said support, means for reciprocating said blade comprising an electromagnet and an armature adapted to be vibrated thereby, a portion of the armature being non-resilient but pliable, a head connected with said portion, the bottom of said head being rounded and means for connecting said head directly with the said reciprocable blade.



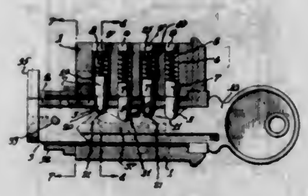
1,695,517. GARMENT HANGER AND PROTECTIVE DEVICE THEREFOR. CARL AUGUST WALDBAUER, Chicago, Ill. Filed Dec. 6, 1927. Serial No. 238,084. 5 Claims. (Cl. 211—124.)



2. A device of the kind described comprising a supporting frame, a second frame rockingly mounted on the supporting frame, a container secured to the supporting frame, said container having a reciprocating member actuated by a member connected to said second frame, and lock operated means within the container engageable in a notch on said reciprocating member.

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1,695,518. ELECTRIC LOCK. GLENN W. WATSON, Detroit, Mich. Filed Oct. 10, 1927. Serial No. 225,046. 8 Claims. (Cl. 70—50.)

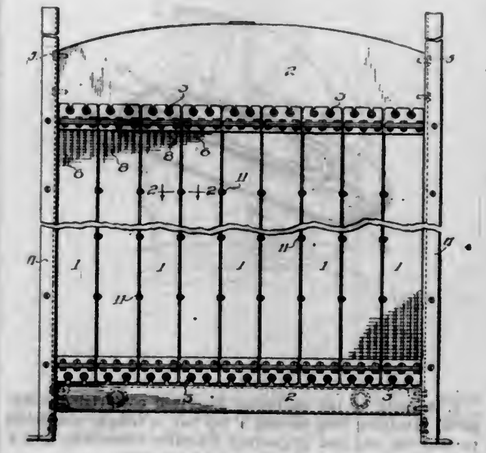


1. In a locking device, a body, a barrel rotatable therein, tumblers adapted to lock said barrel to the body, an auxiliary electrically controlled locking device between said body and barrel, a broken circuit connected to said auxiliary device, and a key insertable in said barrel and adapted to complete said circuit.

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1,695,519. SECTIONAL RADIATOR. FRED M. YOUNG, Racine, Wis., assignor to Perfex Corporation, Racine, Wis., a Corporation of Wisconsin. Filed Sept. 17, 1926. Serial No. 136,095. 3 Claims. (Cl. 257—130.)

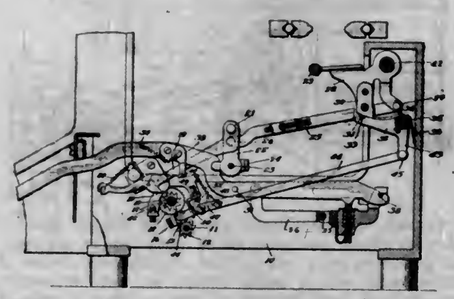
2. A radiator comprising a pair of mutually spaced headers in combination with a closely set series of directly connected interchangeable oblong core sections which are functionally independent of one another and which are connected at their ends to said headers wherewith they directly communicate and manually operable means to detachably secure said sections directly to one another and



to said headers, said sections having lengthwise outstanding side flanges to receive those said means which secure the sections directly to one another.

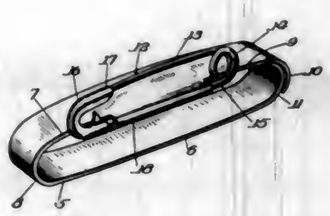
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1,695,520. CASE-SHIFT MECHANISM FOR TYPEWRITERS. CONRAD D. YOUNGBERG, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Jan. 2, 1925. Serial No. 31. 9 Claims. (Cl. 197—73.)



1. In a typewriting machine, a case shift member, a continuously operating power drive, an actuator for said case shift member, a key lever for establishing connection between said power drive and actuator, and power actuated means other than said actuator for controlling the return of said case shift member after operation of said actuator.

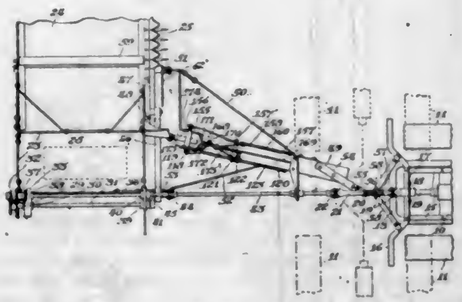
1,695,521. LINGERIE CLASP. FRANK W. BEMM, Milwaukee, Wis., assignor to Otto G. Stoffregen, Chicago, Ill. Filed May 25, 1927. Serial No. 193,970. 3 Claims. (Cl. 24—73.)



1. A clasp of the character described comprising a flat metal retaining loop having a top bar, a tongue connected to said top bar and projecting laterally therefrom, and a safety pin pivotally connected to the tongue.

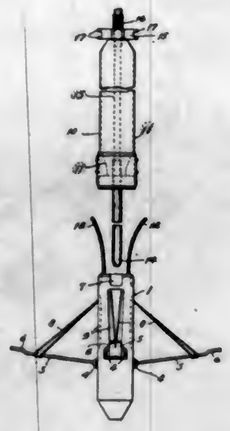
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1,695,522. POWER-DRIVE GRAIN BINDER. BERT R. BENJAMIN, Oak Park, CLEMMA R. RANEY, Chicago, and WILLIAM WEBBER, La Grange, Ill., assignors to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 3, 1923. Serial No. 616,645. 5 Claims. (Cl. 56—10.)



1. An implement having a plurality of movable elements, a tongue connected to said implement, a lever pivotally mounted on said tongue for adjusting one of said movable elements and having an angular extension beyond its pivot, and means including a prop pivoted to said tongue and a link pivotally connecting said prop with the extension on said lever for adjustably supporting the forward end of said implement.

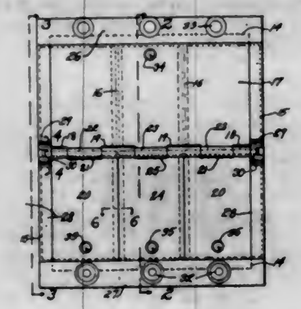
1,695,523. CONCRETE ANCHOR. WALTER E. BILHORN, St. Louis, Mo., assignor to Bilhorn Construction Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 28, 1925. Serial No. 52,977. 6 Claims. (Cl. 189—92.)



1. In combination, an anchor having flukes pivotally secured thereto and a removable cap, said cap having members overlapping the ends of said flukes.

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1,695,524. MAIL BOX. ALBERT EDGAR BLACKMAN, Mount Vernon, N. Y. Filed Feb. 16, 1927. Serial No. 168,632. 11 Claims. (Cl. 232—25.)



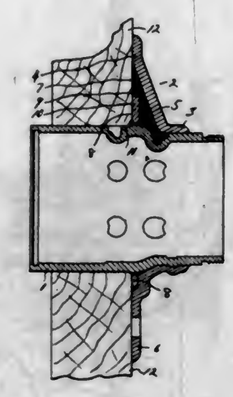
1. A mail box comprising a plurality of compartments opening at the front, a door unit mounted on the front of the box for closing said compartments, said door unit comprising a master door adapted to close the upper portions of said compartments, and tenant doors, one for each compartment, pivotally mounted at their upper ends upon the lower end of said master door for closing the lower portions of said compartments, and pivot means mounted upon the sides of the box with its axis forward of the front of the sidewalls of the box for pivotally supporting the master door at its lower corners.

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1,695,525. WHEEL HUB. WILLIAM N. BOOTH, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 3, 1925. Serial No. 47,936. 3 Claims. (Cl. 301—105.)

3. A wheel hub having, in combination, a barrel, a pressed flange secured upon said barrel and having an annular bearing face encircling said barrel and extending transversely of the axis thereof, and hollow reinforcing ribs extending from said bearing face to said barrel at an angle to said bearing face and forming recesses on the same side of said flange as said bearing face, a ring





encircling said barrel and having a bearing face in substantial alignment with said first-mentioned bearing face, said ring having radial projections engaging in the recesses formed by said ribs, and common means for securing said barrel, flange and ring to each other.

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1,695,526. BRAKE DRUM. WILLIAM N. BOOTH, Detroit, Mich., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich., a Corporation of New York. Filed Aug. 11, 1925. Serial No. 49,523. 9 Claims. (Cl. 188—218.)

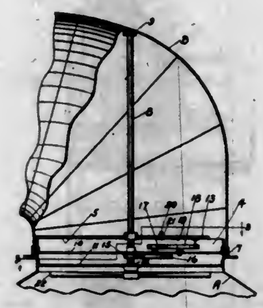


1. A brake drum formed from sheet steel having a circular brake flange and a web provided with pressed annular and radial ribs for reinforcing the web.

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1,695,527. OUTLET HOOD. NICHOLAS BRAUN, St. Louis, Mo. Filed May 14, 1927. Serial No. 191,488. 3 Claims. (Cl. 98—40.)

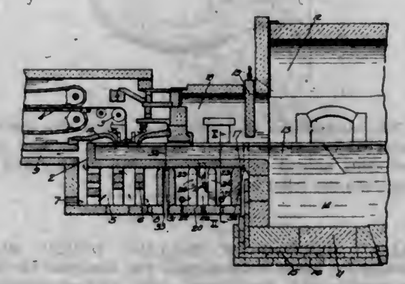
1. An outlet hood adapted to be mounted at the outlet of the heated gases from a heater, and means for automatically oscillating said hood relatively of the heater and comprising a spindle rotatably supporting said hood, a fan at the lower end of said spindle and operable by



the gases discharged through said outlet, and drive means intermediate said fan and hood for oscillating the latter during rotation of the fan.

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1,695,528. GLASS FURNACE. WILLIAM K. BROWNLEE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed May 21, 1923. Serial No. 640,347. 8 Claims. (Cl. 49—17.)



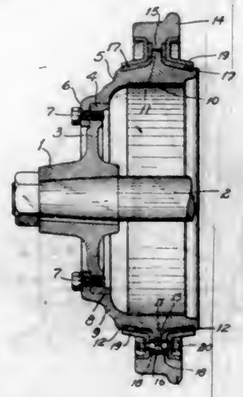
1. In the art of drawing sheet glass, the method of supplying molten glass to the pool from which the sheet is drawn, consisting in melting the glass producing materials, flowing the molten glass to the sheet source through a refining and cooling chamber, and simultaneously heating the lower strata and side portions of the flowing glass.

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1,695,529. CAR WHEEL. NELSON R. BROWNYER, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 8, 1927. Serial No. 211,332. 7 Claims. (Cl. 188—218.)

1. A car wheel comprising a hub portion, a web portion and a rim portion, said web portion having on its inner

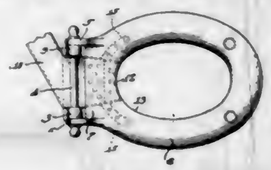
side a brake drum whose inner surface is adapted for cooperation with a brake member and whose outer surface has a circumferential rib at the middle part thereof



and thence tapers towards each end, said rim portion having an internal annular rib, and means engaging said rib to mount said rim on said drum.

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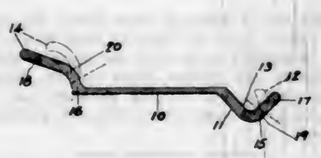
1,695,530. TOILET SEAT. AUGUST J. BRUDER, Holly, Mich. Filed Aug. 30, 1926. Serial No. 132,348. 2 Claims. (Cl. 4—217.)



1. The combination of a toilet seat, a box-like ventilating member embedded in the rear portion of said seat, curved arms carried by said ventilating member and extending into the toilet seat.

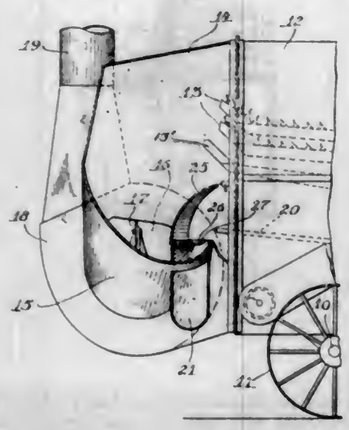
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1,695,531. METHOD OF ROLLING WHEEL RIMS. EDWARD G. BUDD, Philadelphia, Pa., assignor to Budd Wheel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1925. Serial No. 20,980. 4 Claims. (Cl. 80—60.)



1. The method of forming vehicle wheel rims having an upturned flange which consists in hot rolling the rim and the flange with the base of the flange only at a substantially final angle but with the top portion of the flange at an angle slightly less than the final angle, and thereafter cold rolling the top of the flange to its final angle.

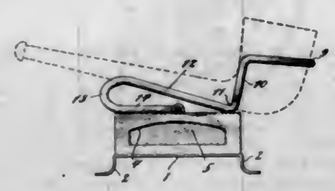
1,695,532. CHAFFER FOR THRASHERS. SHERMAN W. CADY, Richmond, Ind., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 6, 1927. Serial No. 196,671. 8 Claims. (Cl. 130—27.)



1. The combination with a thrasher having a straw discharge chute and a windstacker including a housing, of a chaffer screen, a chaff discharge chute, and a second windstacker, there being an opening in the straw windstacker housing whereby air under pressure is directed along the the chaffer chute in the direction of the second windstacker.

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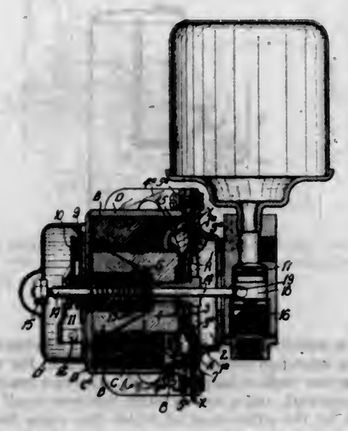
1,695,533. PIPE HOLDER. EDWIN CALDWELL, New York, N. Y. Filed Oct. 30, 1924. Serial No. 746,777. 3 Claims. (Cl. 131—12.)



1. In a pipe support, a base member having sockets, and a wire pipe bowl prop having its ends received in said sockets and intermediate of its ends bent to form a partial enclosure in which a pipe bowl may be supported in an upright position.



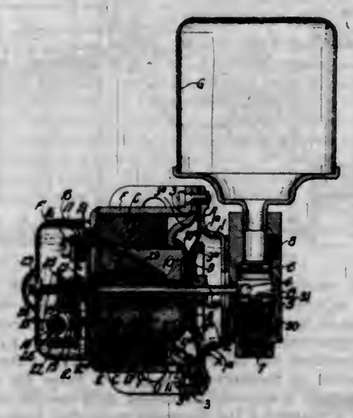
1,695,534. PUMP DIAPHRAGM. WILLIAM C. CARTER, Flint, Mich. Filed Feb. 27, 1925. Serial No. 12,056. 2 Claims. (Cl. 137—156.)



1. A laminated diaphragm composed of a plurality of layers of fabric treated with a linseed oil solution so as to render said layers impervious to liquids without making them stiff, brittle or inflexible.

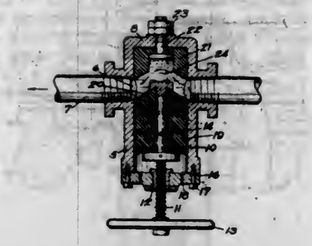
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1,695,535. LIQUID-FUEL-PUMPING APPARATUS. WILLIAM C. CARTER, Flint, Mich. Filed Feb. 27, 1925. Serial No. 12,057. 17 Claims. (Cl. 172—126.)



1. In an electrically-operated pump, a solenoid for operating the pumping element provided with a core composed of an actuating member and a floating member, a switch for intermittently opening and closing the circuit that energizes the solenoid, and means for utilizing the movement of said floating member produced by closing the energizing circuit for increasing the pressure of the contacts of said switch on each other.

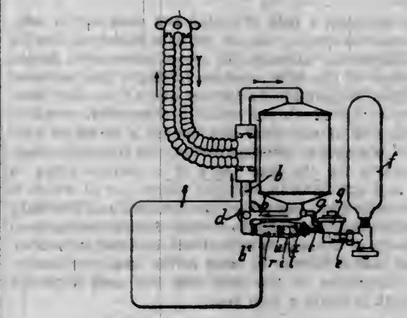
1,695,536. VALVE. JOSEPH P. CROWLEY, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 10, 1925. Serial No. 36,185. 8 Claims. (Cl. 251—77.)



8. A valve of the character described, comprising a housing provided with ports, a compressible valve seat and plunger therein, and means for moving the plunger to and from the valve seat to control the effective opening and the closing of said ports.

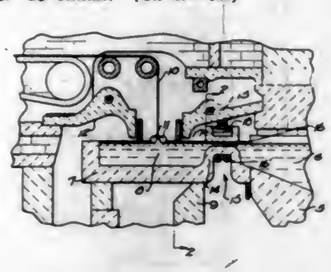
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1,695,537. SELF-CONTAINED LUNG-POWER BREATHING DEVICE. ALEXANDER BERNHARD DRÄGER, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed Nov. 15, 1922, Serial No. 601,030, and in Germany Dec. 10, 1921. 1 Claim. (Cl. 128—191.)



A self-contained breathing device adapted to prevent the breathing air from being overcharged with nitrogen, comprising in combination an air circuit system, a collapsible breathing bag in said system, an oxygen container, a reducing valve, a high-pressure connection from said container to the inlet side of said reducing valve, a continuously open connection from the outlet side of said reducing valve to said air circuit system constructed and arranged to continuously pass oxygen for revivifying the breathing air into said system in a predetermined constant amount per unit of time and an oxygen supply controlling device connected directly with said reducing valve connection and with said breathing bag independently of said continuously open connection and automatically operated by inspiration whereby additional oxygen is periodically supplied to the air circuit system in accordance with the breathing requirements prevailing at the time, said device comprising an auxiliary breathing bag having a collapsible wall, the said wall having a substantial area exposed to the atmosphere, a movable member therein adapted to be actuated by movement of said wall, and a valve controlled by said movable member.

1,695,538. METHOD AND MEANS FOR TREATING GLASS. JOHN L. DRAKE, Toledo, Ohio, assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 7, 1926. Serial No. 133,788. 15 Claims. (Cl. 49—53.)



1. In glass apparatus, a tank containing a mass of molten glass, a pot communicating therewith, an upwardly extending projection arranged in the glass and over which the glass flows, means for heating the glass as it passes over said projection, and means for drawing a sheet vertically from said pot.

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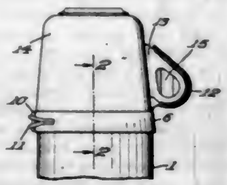
1,695,539. CALENDAR. WILLIAM H. DRAUGHON, Detroit, Mich. Filed Aug. 11, 1923. Serial No. 656,840. 2 Claims. (Cl. 40—108.)



1. In a calendar, a pair of cylindrical members in relatively rotatable relation, one of the said members bearing monthly indications arranged in seven consecutive spaces and the other of the said members having a like series of spaces aligned longitudinally thereof and at one end bearing the days of a month and week in consecutive order in said spaces and at the other end having a series of year indications arranged in consecutive order in the said spaces, the indications for the leap years of a century being in duplicate and occurring in adjacent spaces one of which is a different color from the other, the January and February month indications being also in a color distinguishing from the remainder of the month indications, and means in addition to the said difference in color of the leap year indications for indicating to the user that the said duplicate numbers both indicate a leap year.

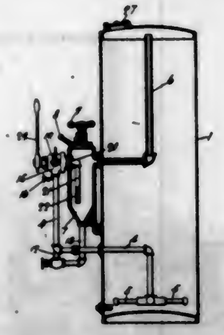
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1,695,540. VACUUM BOTTLE. EINAR EDQUIST, Chicago, Ill. Filed May 11, 1928. Serial No. 276,936. 4 Claims. (Cl. 215—13.)



1. In a vacuum bottle, an envelope formed with a channel at its junction with the bottle neck, a collar integral with said envelope but detached therefrom throughout a portion of its length, a locking lever connecting the ends of said collar whereby the detached end may be releasably clamped against the attached end of said member, and a cup handle bracket carried by said collar.

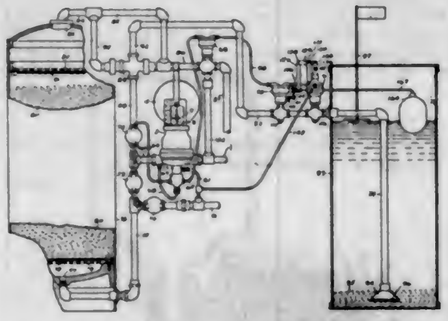
1,695,541. WATER-SOFTENER VALVE. CHARLES P. EISENHAUER, Dayton, Ohio. Filed Jan. 22, 1925. Serial No. 3,951. 9 Claims. (Cl. 210—24.)



1. In a water softener, a tank, conduits alternately employed as inlet and outlet conduits leading to the top and bottom of the tank, a supply conduit, a service conduit and a waste conduit, and a rotary valve common to all of said conduits, by the adjustment of which the water flow from said service pipe may be directed thru the tank inlet and outlet conduits in one direction and thence thru the service pipe or thru such tank inlet and outlet conduits in the opposite direction and thence thru the waste conduit or to entirely disconnect said service conduit.

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1,695,542. WATER-SOFTENING APPARATUS. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed July 22, 1925. Serial No. 45,154. 17 Claims. (Cl. 210—24.)



1. In an automatic water softening apparatus, a container for softening means, means to deliver hard water thereto, means to deliver regenerating material thereto, a source of regenerating material, a plurality of valves hydrostatically operated for controlling the period of softening and the period of regeneration, a control valve for said valves, electrical means for actuating said control valve and means actuated by the incoming water for rendering operative or inoperative said electrical means.

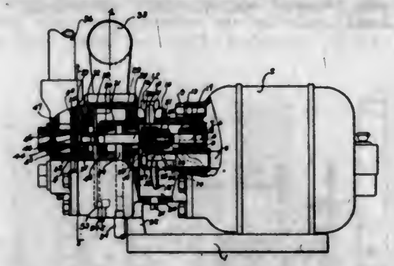
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1,695,543. PUMP. CHARLES P. EISENHAUER, Dayton, Ohio, assignor to The Duro Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 25, 1926. Serial No. 90,636. 18 Claims. (Cl. 103—183.)

1. In a pump, a common base, a motor and a pump mounted thereon, said pump structure carrying suction and discharge lines, said motor having its armature shaft directly connected to a plurality of pistons working in a

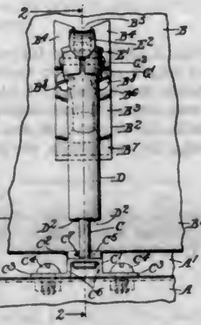


plurality of cylinders communicating with a common suction line and a common discharge line delivering fluid from one to the other by the successive operation of the successive pistons in the successive cylinders and independent valves for each cylinder operated independently of each other by the fluid pressure in each cylinder.



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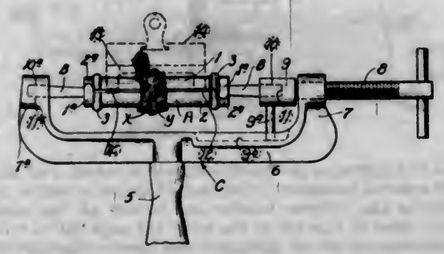
1,695,544. HOOD LATCH. CHARLES B. GILMORE, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 15, 1927. Serial No. 212,951. 14 Claims. (Cl. 292—114.)



1. In a hood latch member, a latch body comprising an open ended tube, a plug member in the upper portion of said tube, a handle secured to said plug member, and including a member adapted for securing engagement with the opposed automobile hood, an engaging member adapted for cam engagement with said automobile hood, said member including a portion surrounding the upper end of said cylinder, and a securing member passing through said cylinder, plug and surrounding portion.

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1,695,545. HAIR-CURLING DEVICE. ALEXANDER F. GODEFROY, St. Louis, Mo. Filed Nov. 5, 1927. Serial No. 231,271. 7 Claims. (Cl. 132—33.)



1. A hair curling device, consisting of an expansible member of substantially tubular shape, composed of a plurality of longitudinally-divided sections, said member being adapted to have strands of hair coiled around the same, wedges for expanding said member, and means for holding said member in an expanded condition after the wedges have been removed from said member.

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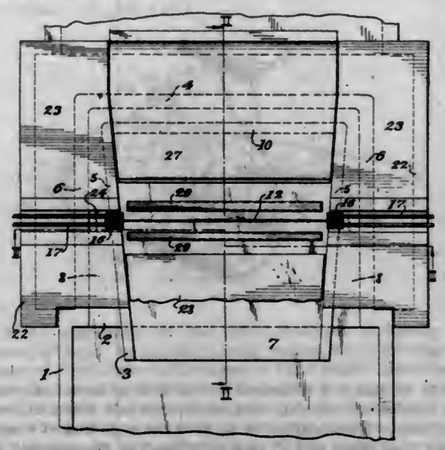
1,695,546. THERMOSTATIC CONTROL OF ELECTRIC CIRCUITS AND APPARATUS AND OTHER DEVICES. JULIAN G. GOODHUE, Evanston, Ill., assignor to trustees of The Electric Thermostatic Control Company, Chicago, Ill., a Trust Estate. Filed Jan. 15, 1923. Serial No. 612,574. 2 Claims. (Cl. 200—141.)



1. In a device of the class described, a container having two vertical chambers having their lower ends connected by a U-shaped passageway, a pair of electrical contacts permanently surrounded by mercury in recesses communicating with said passageway adjacent each of said chambers, a third contact in the lower portion of said passageway, mercury in said passageway, an insulating liquid in one of said chambers, and a gas and insulating liquid in the other, said liquid in the first named chamber being adapted to expand upon increase in temperature so as to break the mechanical and electrical connection of the mercury between one of said pairs of contacts and said third contact, and said chambers and said U-shaped passageway being adapted to permit portions of the insulating liquid to be transferred from one chamber to the other upon physical manipulation of the container.

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1,695,547. DRAWING SHEET GLASS. LAWRENCE A. GROLEMUND, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed June 18, 1923. Serial No. 646,027. 11 Claims. (Cl. 49—17.)

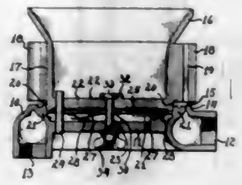


3. In a sheet glass drawing apparatus, an inner container for a pool of molten glass from which the sheet is

drawn, and an outer container surrounding the bottom and side walls of the inner containers but spaced therefrom, the space between the containers being filled with molten glass, and a heating chamber surrounding the bottom and side walls of the outer container, the sides of one of the containers being closer to the sides of the other container at their closed ends than at their open ends.

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1,695,548. GAS BURNER. ERNEST A. HALL and GORDON E. BURNS, Toledo, Ohio, assignors to The Hall Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 9, 1928. Serial No. 245,370. 12 Claims. (Cl. 158—99.)



1. In a gas burner, the combination of a burner casting comprising a hollow ring with outlet holes for discharging gas, a supplemental member having flues in alinement with said holes and spaced therefrom to provide for the mixture of air with the gas, said ring being formed with an annular series of inwardly facing shoulders, said supplemental member having a downward extension fitting within said series of shoulders, and means for adjusting the distance between said supplemental member and said casting to vary the proportion of air in the mixture.

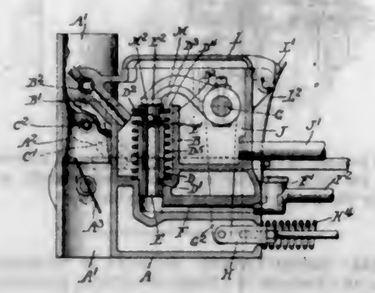
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1,695,549. ADJUSTABLE ARM REST FOR AUTOMOBILES. JOSEPH HAUSLER, Chicago, Ill. Filed May 13, 1927. Serial No. 190,991. 2 Claims. (Cl. 155—198.)



1. An arm rest formed of a strip of sheet metal of greater length than width tapered toward one end and bent to form a hook adapted to fit over the moulding of a window; the other end of said strip bent in the opposite direction to form a curved portion adapted to support the arm substantially as described.

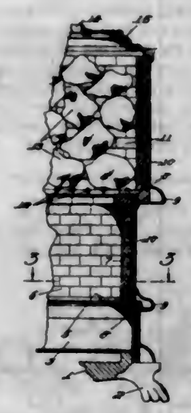
1,695,550. CARBURETOR. WILLIAM H. C. HIGGINS, Jr., La Porte, Ind., assignor to Advance-Rumely Company, La Porte, Ind., a Corporation of Indiana. Filed Apr. 7, 1824. Serial No. 704,602. 12 Claims. (Cl. 158—36.4.)



1. In a carburetor a plurality of fuel chambers in combination with fuel supply means for supplying a different fuel to each chamber, pumps one for each fuel chamber adapted to force fuel into said fuel chambers, said pumps located within the carburetor part of the actuating means of such pumps being located within the carburetor.

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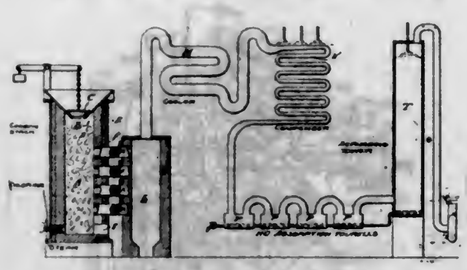
1,695,551. FURNACE. SAMUEL HILL and JUHA LATVALA, Twecoma, Mich. Filed Feb. 3, 1926. Serial No. 85,704. 1 Claim. (Cl. 126—58.)



A furnace section comprising a grate, walls supported upon the marginal portion thereof, and a lining for the walls supported upon the grate and disposed around the bars of the grate.



1,695,552. PROCESS OF PRODUCING HYDROCHLORIC ACID SYNTHETICALLY. WILHELM HIRSCHKIND, Antioch, and CARL W. SCHEDLER, Berkeley, Calif., assignors to Great Western Electro Chemical Company, San Francisco, Calif., a Corporation of California. Filed Sept. 14, 1925. Serial No. 56,376. 6 Claims. (Cl. 23—156.)



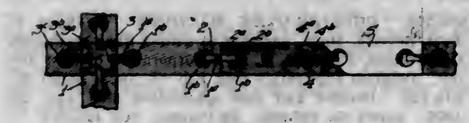
1. A process of producing hydrochloric acid synthetically from chlorine which comprises passing steam and chlorine through hot carbon in approximately the ratio required to balance the equation

$$C + 2H_2O + 2Cl_2 = 4HCl + CO_2$$

the gas being passed through an increased or diminished quantity of carbon to prevent the production of hydrogen and carbon monoxide.

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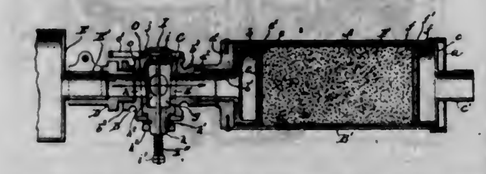
1,695,553. TOY BUILDING BLOCK AND WALL CONSTRUCTION. FRANCES E. JONES, San Diego, Calif., and FRANCIS D. JONES, Helena, Mont. Filed Aug. 11, 1926. Serial No. 128,564. 7 Claims. (Cl. 72—16.)



1. In toy building blocks, blocks having key slots in their ends, said slots being transverse to the length of said blocks, and key members, of a length greater than the width of said blocks, each having a plurality of separate key portions adapted to be inserted into the end slots of said blocks, for tying pairs of the latter together into walls with the long edges of the pairs adjacent each other, said key members forming an intermediate portion of the walls formed by said blocks.

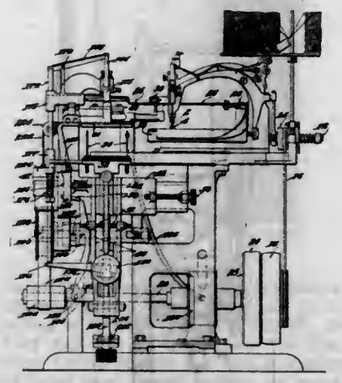
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1,695,554. EXHAUST PURIFIER. LEONARD MARKELS, New York, N. Y. Filed Aug. 31, 1923. Serial No. 660,300. 5 Claims. (Cl. 183—48.)



5. In a device of the class described, a purifying chamber, a hollow rotary by-pass valve interposed between the same and the flow of the exhaust thereto, and a relief valve seated upon the outer end of the said by pass valve and normally closed and supported by the by-pass valve and unaffected by the rotation of the latter, said by pass valve normally closing the vent to the atmosphere and the relief valve being opened by excess of exhaust pressure in the by pass valve chamber.

1,695,555. MACHINE FOR OPERATING ON PIECES OF SHEET MATERIAL. BENJAMIN F. MAYO, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 28, 1920. Serial No. 420,182. 34 Claims. (Cl. 112—2.)

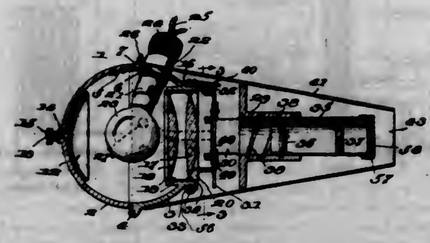


1. A machine for operating on sections of sheet material, having, in combination, means for operating on such material, a carrier for sections of such material movable from work receiving position to present the work to the operating means, movable to guide the work in its movement during the operation thereon and movable to restore the carrier to work receiving position after the completion of an operation and automatically actuated and controlled mechanism for imparting a complete cycle of movements to the carrier.

26. A machine for operating on sections of sheet material, having, in combination, means for operating on such material, a table for holding a stack of sections of such material, a carrier movable over the table and means for imparting a step-by-step upward movement to the table in successive cycles of operations to apply the topmost section on the stack to the carrier in each cycle.

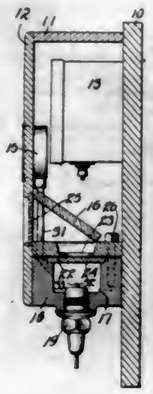
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1,695,556. APPARATUS FOR PROJECTING LIGHT. HAROLD A. MCGUNNIGLE, New York, N. Y., assignor to Artlite, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 21, 1926. Serial No. 103,546. 6 Claims. (Cl. 240—41.)



1. An apparatus of the class described including a source of light, an optical lensing system for projecting a beam of light from said source, a light shield associated with said lensing system and including a centrally apertured support through whose aperture the light beam is adapted to pass, a plurality of plate-like members carried by said support and adjustable in planes parallel to that of the support about said aperture, and means for independently adjusting said members relative to each other

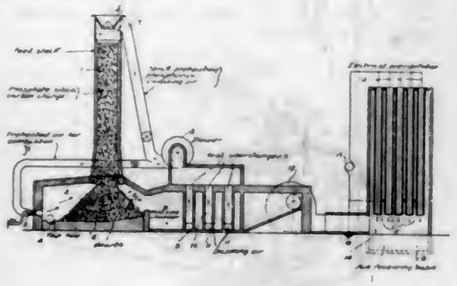
1,695,557. SPARK-PLUG-TESTING DEVICE. ROY H. MYERS, Hagerstown, Md., assignor to William H. Strauss, Waynesboro, Pa. Filed Apr. 16, 1926, Serial No. 102,529. Renewed Mar. 12, 1928. 5 Claims. (Cl. 175—183.)



1. A spark plug tester comprising a casing, a pressure chamber in said casing having a transparent wall portion, said casing having a transparent wall portion disposed at an angle to said transparent wall portion of the pressure chamber, and a mirror disposed in a position to permit the interior of the pressure chamber to be observed through both transparent wall portions, substantially as set forth.

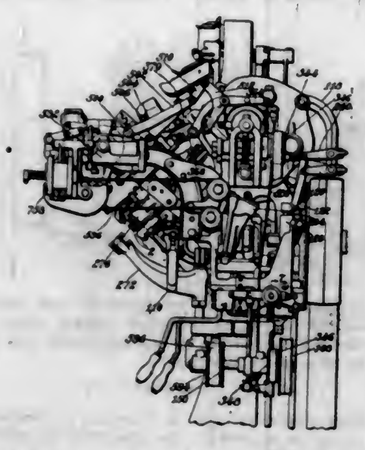
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1,695,558. PROCESS FOR THE PRODUCTION OF PHOSPHORIC ACID. ALBERT NOBLE, Anniston, Ala., assignor to Federal Phosphorus Company, Birmingham, Ala., a Corporation of Alabama. Filed Feb. 29, 1924. Serial No. 695,945. 5 Claims. (Cl. 23—165.)



1. A process for the manufacture of phosphoric acid, which consists in charging a mixture of phosphate rock, silica and carbon into a feed stack disposed over the hearth of a heating chamber, impinging a flame on the charge in the heating chamber, passing air downwardly through the feed stack, oxidizing the evolved gases during their sojourn in the heating chamber, transferring heat from the gases to preheat air for combustion of the fuel, and collecting the oxidized phosphorus compounds.

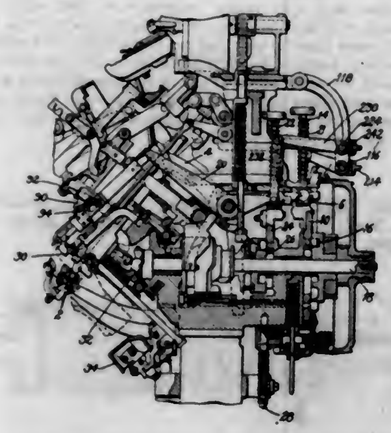
1,695,559. MACHINE FOR SHAPING UPPERS OVER LASTS. CHARLES F. PYM, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 15, 1923. Serial No. 619,120. 152 Claims. (Cl. 12—4.)



1. A pulling-over and toe lasting machine having, in combination, means for pulling-over an upper, toe-embracing wipers, and operating mechanism for imparting to said wipers in automatically determined time relation upwiping and over-wiping movements after the pulling-over operation has been substantially completed.

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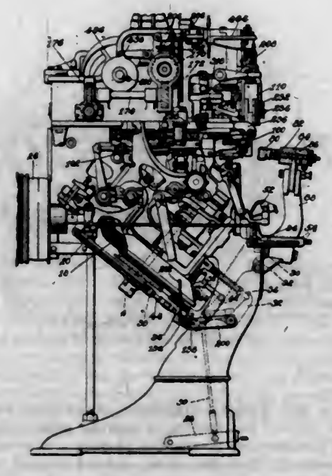
1,695,560. PULLING-OVER MACHINE. CHARLES F. PYM, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Feb. 15, 1923, Serial No. 619,120. Divided and this application filed Apr. 28, 1927. Serial No. 187,394. 39 Claims. (Cl. 12—9.)



1. In a machine of the class described, the combination with an upper-pulling gripper, of power-driven mechanism for moving said gripper at the will of the operator either in a direction to pull the upper or in a direction to relax the force of the pull, said mechanism comprising a power-driven pinion, racks connected to the gripper for moving it respectively in said different directions, and manual means for connecting the pinion to one or the other of said racks alternatively.



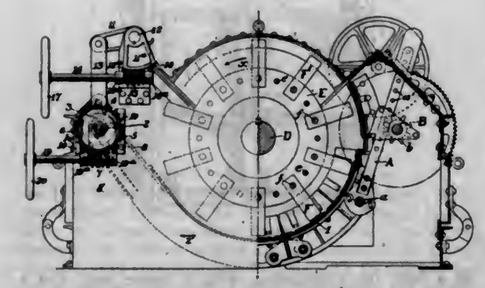
1,695,561. MACHINE FOR SHAPING UPPERS OVER LASTS. CHARLES F. PYM, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 8, 1924. Serial No. 730,929. 67 Claims. (Cl. 12—4.)



1. A pulling-over and toe lasting machine having, in combination, means for pulling an upper over a last, upwiping means and over wiping means movable as a unit heightwise of the toe with the upwiping means in engagement with the upper about the toe to wipe the upper to the edge of the insole, and power-driven mechanism for operating said upwiping means and overwiping means in automatically determined time relation to each other to upwipe the upper and to wipe its margin inwardly over the insole.

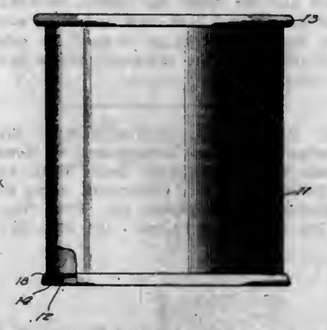
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1,695,562. CAGE-ADJUSTING MECHANISM FOR CRUSHING MACHINERY. CHARLES R. ROUSE, Swissvale, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y., a Corporation of New York. Filed June 21, 1926. Serial No. 117,374. 10 Claims. (Cl. 83—73.)



1. The combination, with a crushing machine having a cage or screen of the rigid type, and crushing means rotatable with respect to said cage, of rotative means operatively connected to one end of the cage for effecting adjustment of the cage with respect to the rotatable crushing means, and independent means for shifting the position of the cage-adjusting means; the resultant of the adjusting operations placing the cage in the desired position with respect to the crushing means.

1,695,563. CONTAINER. CHARLES STOLLBERG, New York, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 6, 1922. Serial No. 534,498. 4 Claims. (Cl. 220—67.)



1. A container for heavy materials, comprising a sheet metal body wall having a protruding curl at its top, a bottom having a shoulder fitting within the lower end of said body wall and welded thereto, the edge of said bottom being folded upward and thence downward and having its inner part pressed against the outer face of said body wall, the outer part of the flange of the bottom being engaged and braced by the end of said inner part and adapted to cooperate with the said curl at the top to permit the rolling of the container.

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1,695,564. TOOL-COUPLING DEVICE. CHARLES S. THOMAS, San Diego, Calif. Filed Feb. 26, 1927. Serial No. 171,222. 7 Claims. (Cl. 279—89.)



1. A device of the class described, including a brace shank, a tool, a cutout portion in said shank, notched portions in said tool adapted to fit in said cutout portions of said shank, and rigid and shiftable sleeve means non-rotatably mounted on said brace shank and shiftable into non-rotatable engagement with said tool for rigidly securing said shank to said tool.

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1,695,565. TOOL-COUPLING MEANS. CHARLES S. THOMAS, San Diego, Calif. Filed Feb. 26, 1927. Serial No. 171,223. 8 Claims. (Cl. 279—89.)



1. A device of the class described, including a brace shank provided with a dovetail female portion, a tool provided with a conforming dovetail male portion, a plurality of concentric slidably mounted sleeves on said shank, and screw and taper means in connection with said sleeves for locking said concentric sleeves over the joint of said shank and tool.

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1,695,566. PHENOLIC RESIN COMPOSITION. VICTOR H. TURKINGTON, Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y., a Corporation of Delaware. Filed May 24, 1926. Serial No. 111,373. 4 Claims. (Cl. 134—26.)

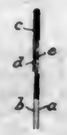
2. The hereindescribed varnish composition comprising a reactive phenol-mythylene resin, a volatile solvent therefor, and a di-alkyl ester of an organic acid.

1,695,567. ANIMAL FOOD. HARRY M. WEBER, Montclair, N. J., assignor to Ellis-Foster Company, Montclair, N. J., a Corporation of New Jersey. Filed Mar. 26, 1924. Serial No. 702,134. 1 Claim. (Cl. 99—11.)

A baked and air dried dog biscuit enriched in vitamines, having a glazed hard crust and being substantially free from fissures whereby in view of the substantially air impervious crust, the vitamine content is preserved against oxidation.

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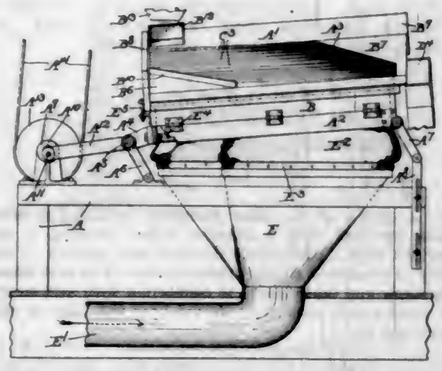
1,695,568. PAPER BAG. HOWARD A. WOLF, Elkins Park, Pa., assignor, by mesne assignments, to Howard Wolf, Benjamin Wolf, Elias Wolf, Louis Wolf, and Albert Wolf, Philadelphia, Pa., Copartners, doing business as Wolf Brothers, Philadelphia, Pa. Filed Nov. 9, 1926. Serial No. 147,207. 6 Claims. (Cl. 229—68.)




1. A paper bag including connected back and front walls separated at their upper ends to form an opening for the bag, a closing flap formed as an extension of the upper end of one of the walls, said flap being creased on a line adjacent the opening whereon it may be folded to close the opening, and a locking tongue hinged to the closing flap, said front and back walls being formed with aligning apertures spaced from the crease in the flap a distance less than that between the crease and the hinge line of the tongue, whereby, when the flap is folded over the opening along the crease and the tongue passed through the aligned apertures with its hinge line at the upper edge of an aperture, the flap will extend outwardly from the walls of the bag forming a handle.

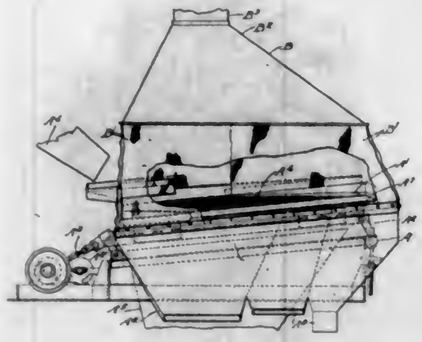
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1,695,569. DRY-SEPARATING MACHINE. RAY W. ARMS, Chicago, Ill., assignor to Roberts and Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1924. Serial No. 706,853. 31 Claims. (Cl. 209—467.)



7. In an air separating table, a pervious deck, means for discharging air upwardly under pressure therethrough, means for reducing the flow of air through the deck along one side thereof, riffles projecting upwardly from the deck and terminating at the zone of the lower pressure.

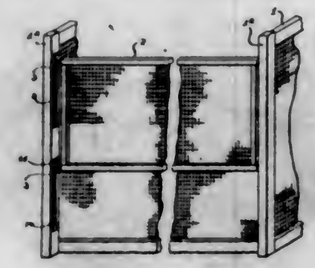
1,695,570. DUST-COLLECTING SYSTEM FOR DRY-CLEANING TABLES. RAY W. ARMS, Chicago, Ill., assignor to Roberts & Schaefer Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 9, 1926. Serial No. 80,138. 2 Claims. (Cl. 209—467.)



1. In a dry cleaning apparatus, a pervious reciprocating deck, means for feeding a flowing sheet of granular material thereacross, means for passing a moving column of air upwardly thru the sheet, a hood located above the deck containing an air settling chamber bounded on its underside by the sheet of material and means for withdrawing air from said hood at a point above the settling chamber and widely separated from the sheet of material, and a closure between the hood and the deck at all points about its periphery except the space thru which the sheet of material enters and is discharged from the deck, the hood being fixed in position independent of the movement of the deck.

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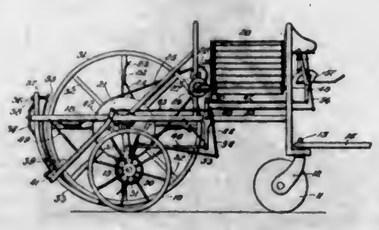
1,695,571. CRIB. WILLIAM C. BAXTER, Rochester, N. Y., assignor to E. M. Trimble Mfg. Co. Inc., Rochester, N. Y., a Corporation of New York. Filed Apr. 23, 1927. Serial No. 186,018. 1 Claim. (Cl. 5—100.)



In a crib, the combination with a corner post, and a guide on the corner post formed with a chamber and a slot leading through said chamber having an enlargement, of a side member having a headed projection, the head of the projection operating in the chamber of the guide and the reduced portion operating in the slot, the projection being adapted to be disconnected from the guide by withdrawal of the head of the projection through the enlargement of the slot, and a bumper arranged in said enlargement to prevent the withdrawal of the head of the projection from the chamber.



1,695,572. SHOCK LOADER. BERT C. BERRY, Calgary, Alberta, Canada, and HARRY S. DICKINSON, Moline, Ill., assignors, by direct and mesne assignments, to Peerless Shock Loader Company, Wilmington, Del., a Corporation of Delaware. Filed July 28, 1923. Serial No. 654,407. 11 Claims. (Cl. 56—356.)



11. In a loader, the combination of a frame, an elevator mounted on the frame, supporting wheels for the frame, a vertically adjustable ground engaging device for furnishing power to the elevator, means for effecting vertical adjustment of the ground engaging device, gathing teeth carried by the frame in proximate relation to the elevator, means for vertically adjusting the gathering teeth, and co-operating connections for simultaneously actuating the ground engaging lifting means and the means for lifting the gathering teeth, substantially as described.

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1,695,573. HOSE SUPPORTER. ABRAHAM D. BORENSTEIN, Brooklyn, N. Y. Filed Mar. 11, 1925. Serial No. 14,710. 2 Claims. (Cl. 24—245.)

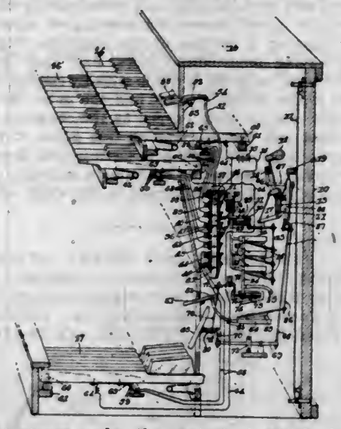


1. In a hose supporter the combination of a lower strap, a stud frame supported by the strap, a thimble having flanges at its ends extending from said frame, one of the flanges of the thimble bearing against a face of the frame, a tapered stud encircling the thimble with its smaller end bearing against the frame, a washer encircling the thimble interposed between the larger end of the stud and the adjacent flange of the thimble and a suspended clasp coacting with said stud.

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1,695,574. MUSICAL INSTRUMENT. CARLETON H. BULLIS, Cleveland, Ohio. Filed Apr. 27, 1922. Serial No. 556,910. 10 Claims. (Cl. 84—244.)

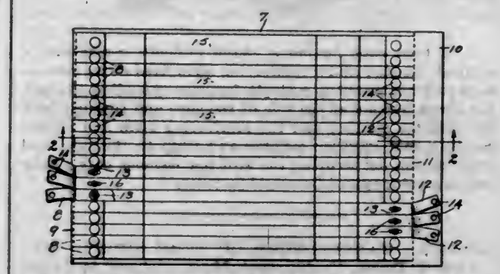
5. A self contained musical instrument for the purposes named, comprising a cabinet, a pneumatic action including a plurality of striker pneumatics within said cabinet, a manual and pedal keyboard attached to said cabinet, coupler mechanism for selectively placing said pneumatics in one



or more groups under the control of said keyboard, and stops for controlling the operation of said coupler mechanism.

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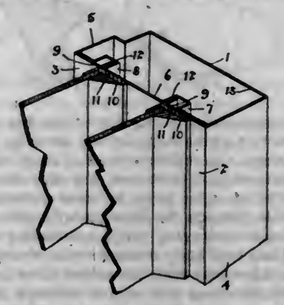
1,695,575. SECTIONAL PAGE. LEON COHEN, St. Louis, Mo. Filed Dec. 21, 1926. Serial No. 156,115. 3 Claims. (Cl. 281—44.)



1. A sectional page comprising a backing member, a plurality of page sections composed of strips extending across one face thereof, means for detachably securing each of said strips adjacent their ends to said backing member in parallel and abutting relation to each other, and an extension formed along one edge of said page whereby a plurality of pages can be assembled and secured together in book form.

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1,695,576. METAL-WINDOW CONSTRUCTION. JOHN EDWIN DENNIS, London, Ontario, Canada. Filed July 19, 1926. Serial No. 123,448. 2 Claims. (Cl. 189—72.)



1. A metal window, comprising a box frame formed of a single sheet of metal shaped into rectangular form and

having inwardly turned free edges spaced apart, a separate sheet of metal secured inside and bridging the space between the free inturned edges of the frame and having a pair of longitudinal ribs with parallel and rectangularly arranged sides parallelly spaced therein, the free spaced edges of the frame overlapping a portion of the channels formed by said ribs leaving longitudinal slots, and sash members formed of T bars, the webs of which slidably engage the face of the box frame in flat contact and the outer flanges of which extend into the slots formed by the channels in said separate sheet and the overlapping free edges of the box structure, the flanges of the T bars having their faces right angularly arranged in relation to the webs engaging a longitudinal face of the channels formed in the single sheet.

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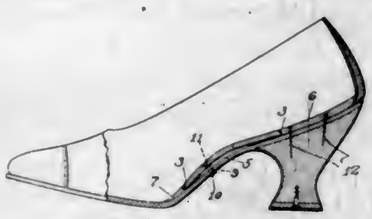
1,695,577. TURN SHOE AND SHANK STIFFENER THEREFOR. WILLIAM G. DODGE, Newburyport, Mass., assignor to United Shank & Findings Company, Boston, Mass., a Corporation of Massachusetts. Filed May 4, 1921. Serial No. 466,682. 5 Claims. (Cl. 36—76.)



1. A turn shoe having a shank stiffener comprising a stiffener member and a reinforcing strip fixed at its ends to said stiffener member, a single fastener extending through the shank portion of the sole of the shoe and through both the stiffener member and the reinforcing strip and rigidly securing said stiffener member and strip to the sole, and other means for securing the stiffener member only to the sole at a point spaced from said fastener.

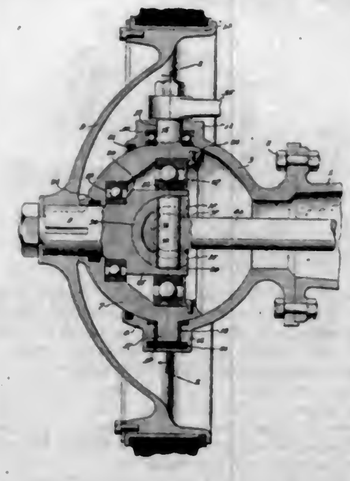
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1,695,578. MANUFACTURE OF TURN SHOES. WILLIAM G. DODGE, Newburyport, Mass., assignor to United Shank & Findings Company, Boston, Mass., a Corporation of Massachusetts. Original application filed May 4, 1921, Serial No. 466,682. Divided and this application filed Apr. 26, 1927. Serial No. 186,739. 6 Claims. (Cl. 12—142.)



1. That improvement in the art of making turn shoes which consists in forming a filler piece, blanking and punching a hole through a metallic reinforcing strip, forming said strip to the longitudinal curvature of a shoe shank, attaching the strip to the filler piece to form a shank stiffener, punching a hole through the filler piece in alinement with the hole in the reinforcing strip, positioning the shank stiffener within a turn shoe, making a hole through the sole of the shoe in alinement with the alined holes in the shank stiffener, and fastening the shank stiffener in position by a rivet passed through the holes in the sole and the shank stiffener.

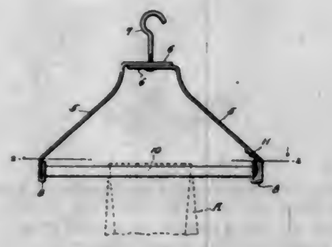
1,695,579. WHEEL ASSEMBLY. MAURICE G. DUSSEAU, Allston, Mass. Filed May 13, 1925. Serial No. 29,954. 2 Claims. (Cl. 180—48.)



1. In a wheel assembly, inner and outer knuckle members, steering means for the inner knuckle member, an extension shaft journaled in the inner knuckle member, a wheel fixed on said shaft, a drive shaft extending through said outer knuckle member into said inner knuckle member, a universal joint in said inner knuckle member articulating said shafts, an annular ball bearing supporting said joint in said inner knuckle member, said ball bearing having an inner race member on said extension shaft, and means carried by said joint and projecting laterally through said extension shaft for engaging the inner race member of said bearing whereby said joint may withdraw said bearing from said inner knuckle member.

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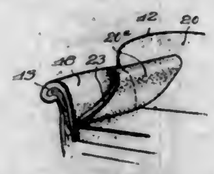
1,695,580. COMBINED COAT AND TROUSERS HANGER. RUBEN E. EDMUNDSON, St. Joseph, Mo. Filed Apr. 16, 1926. Serial No. 102,519. 2 Claims. (Cl. 223—62.)



1. A combined coat and trousers hanger, a coat hanger comprising a substantially V-shaped body including downwardly and outwardly diverging members, a pair of spaced parallel trouser supporting bars disposed between the lower ends of said members, one of said bars being rigidly mounted and the other bar being movably mounted in order to permit disengagement from the aforesaid coat hanger, said last named bar being movable in an endwise direction, and spring means interposed between one end of said movable bar and the complemental member.



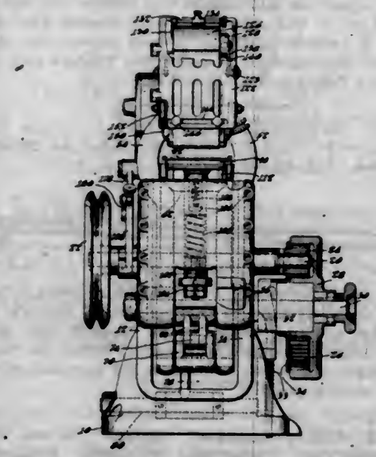
1,695,581. UPHOLSTERING. HAROLD P. FABIS, Chicago, Ill., assignor to Kroehler Manufacturing Company, Naperville, Ill., a Corporation of Illinois. Filed Feb. 27, 1928. Serial No. 257,131. 5 Claims. (Cl. 155—184.)



1. In combination with a piece of upholstered furniture, a cushion having relatively loose and light filling material extending across an upholstered face of said piece and secured to the latter along two opposite end edges of said cushion, but leaving the intermediate portions of said cushion unsecured so as to permit access between said cushion and said upholstered face.

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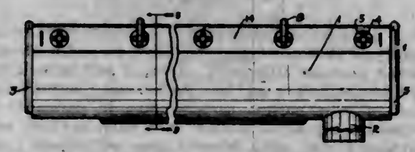
1,695,582. MARKING MACHINE. PERLEY R. GLASS, Wayland, and HARRY D. ELLIOTT, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 7, 1925. Serial No. 21,344. 14 Claims. (Cl. 41—7.)



1. In a marking machine, a frame, a work support on said frame, a die-carrying member slidably mounted on the frame, said member comprising an overhanging arm, an impression die carried by said overhanging arm, means for actuating said member comprising a toggle interposed between the frame and the lower end of the die-carrying member at a point directly underneath the point of contact between the die and a piece of work supported on the work support.

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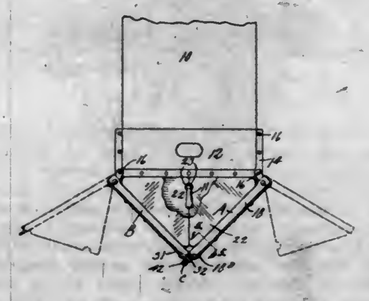
1,695,583. LIQUID RECEPTACLE. SAMUEL GOLDBERG and VICTOR GOLDBERG, Baltimore, Md.; said Victor Goldberg assignor to said Samuel Goldberg. Filed Oct. 17, 1927. Serial No. 226,706. 6 Claims. (Cl. 108—28.)



1. A conduit comprising layers of non-metallic material, backs of like non-metallic material formed with flaps secured to the open ends of said conduit, the flaps being inserted between the layers at the transverse ends thereof, said layers and flaps being intimately and securely joined together.

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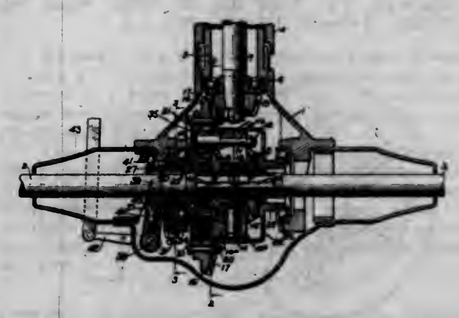
1,695,584. RADIATOR GUARD. CARL H. GUSTAFSON, Albert City, Iowa. Filed Feb. 27, 1928. Serial No. 257,270. 10 Claims. (Cl. 293—48.)



1. The combination with a radiator of a radiator guard comprising a pair of guard members each having one edge secured to a side of the radiator, said members extending forwardly and converging and having their free edges secured together and a bottom member between the lower ends of said guard members and said radiator.

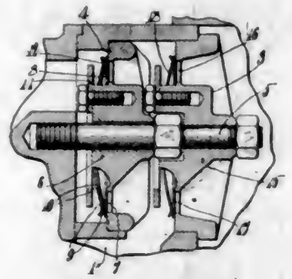
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1,695,585. CHANGE-SPEED AXLE. ELBERT J. HALL, Berkeley, Calif., assignor to Rockstell Sales and Manufacturing Company, Berkeley, Calif., a Corporation of California. Filed Nov. 11, 1925. Serial No. 68,308. 2 Claims. (Cl. 74—99.)



1. A differential gear system and a planetary gear system comprising in combination, a pair of coaxial bevel gears, a spider surrounding the bevel gears and carrying a plurality of bevel pinions in mesh with both bevel gears, a plurality of bolts in the spider, the ends of the bolts projecting beyond one face of the spider, a ring gear, a sun gear coaxial with the bevel gears, a plurality of pinions each rotatably mounted on one of the said bolt projections and in mesh with the ring gear and sun gear, and means optionally operative to hold the sun gear against rotation or to lock the sun gear and ring gear and their cooperating pinions to rotate only as a unit, the spider being floatingly supported entirely by the bevel pinions and their supporting axles.

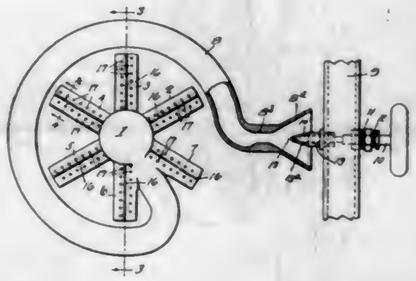
1,695,586. VALVE MECHANISM. FRANK A. HALLECK, Michigan City, Ind., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Feb. 9, 1924. Serial No. 691,622. 23 Claims. (Cl. 277—61.)



1. A valve mechanism comprising a member forming a ported valve seat, valve means on said seat, a stop member, and seating means for said valve means interposed between the latter and said stop member comprising a plurality of identical yieldable means having surfaces contacting with each other substantially over their entire areas when said valve means is seated.

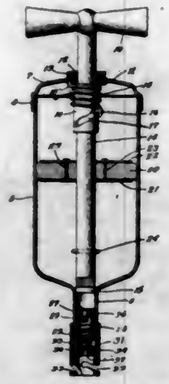
8. A valve mechanism comprising inlet valve structure and exhaust valve structure each of which includes a ported valve seat and a reciprocable valve disposed thereon, stop members for each of said valves, and means for seating said valves interposed between the latter and said stop members, the means for seating the exhaust valve comprising a plurality of separate yieldable seating members having mating surfaces contacting with each other over substantially their entire areas when the exhaust valve is seated, while the means for seating the inlet valve comprises a lesser number of said yieldable seating members.

1,695,587. GASEOUS-FUEL BURNER. JOHN HARRIS, Cleveland, Ohio, assignor of one-half to James R. Rose, Edgeworth, Pa. Filed Mar. 21, 1927. Serial No. 176,907. 5 Claims. (Cl. 158—99.)



1. A burner comprising, in combination, a central receiving chamber, a plurality of radial burner arms extending therefrom, a combined mixing and expansion tube communicating with said chamber between a pair of said arms and extending approximately around the said chamber and arms and in close proximity to said arms, and means for delivering a mixture of fluid fuel and air into the receiving end of said tube, each of the said burner arms being provided with a V-shaped groove in the top thereof, and being provided with burner orifices on opposite sides of said groove, the orifices on one side of the groove being arranged to discharge in proximity to the part of the arm opposite thereto and being staggered with respect to the orifices on the opposite side of said groove.

1,695,588. LUBRICANT COMPRESSOR. OTTO J. HERR, Chicago, Ill., assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Apr. 14, 1924. Serial No. 706,336. 10 Claims. (Cl. 221—47.4.)



8. A lubricant compressor, comprising a barrel having a closure at one end and a cylinder of small diameter at the other end, a plunger extending through said closure, coacting means on said closure and plunger for moving the inner end of said plunger into said cylinder when said plunger is rotated relatively to said barrel, and rigid means for effecting a sealed connection between said cylinder and a fitting to be lubricated.

1,695,589. ROTATABLE SIGN. FRED L. HINKS, Fort Dodge, Iowa. Filed June 2, 1928. Serial No. 282,366. 4 Claims. (Cl. 40—39.)



1. In a sign structure, a sign board, a vertical supporting shaft having one end extending through the board from one edge thereof to an opposite edge, antifriction elements surrounding the shaft within the board and adjacent said edges, and means for maintaining the shaft in vertical position.

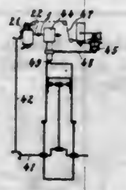
1,695,590. STAGE GARMENT. EDITH C. JENSEN, San Francisco, Calif. Filed Nov. 23, 1927. Serial No. 235,164. 3 Claims. (Cl. 2—74.)



3. A garment of the character described comprising a plurality of skirt portions, a belt portion, and a plurality of waist portions alternately arranged and secured with said skirt portions to said belt portion and adapted to each conceal a skirt portion corresponding in design to the next underlying waist portion, said waist portions being so arranged that when released they will expose a concealed skirt and then be concealed by the released skirt portion when the latter has assumed its normal position.

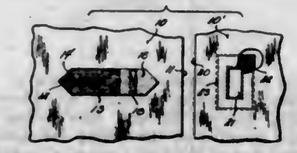


1,695,591. PRESSURE INDICATOR. KALMAN JUHASZ, Hamburg-Wandsbeck, Germany. Filed Oct. 1, 1923, Serial No. 665,844, and in Germany Feb. 15, 1923. 5 Claims. (Cl. 234—21.)



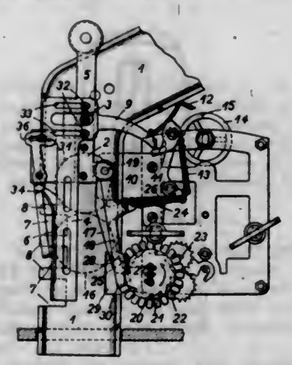
1. In a pressure indicator of the character described, a phase controller comprising a primary shaft driven by the engine under test, a secondary shaft for transmitting motion to a pressure controlling valve, gears on said shafts, a casing adjustable in an arc concentric with the shafts, a shaft journaled in the casing, gears carried by said shaft and meshing with the gears on the first-named shafts, and means for adjusting the casing and fixing it in adjusted position.

1,695,592. GARMENT FASTENER. GEORGE J. KROMER, Milwaukee, Wis. Filed May 24, 1928. Serial No. 280,357. 5 Claims. (Cl. 24—201.)



1. In a garment or the like having separable portions, the combination of a non-metallic fastener therefor comprising a flexible tongue attached at one end to one of said portions, a flexible elongated head applied lengthwise on said tongue, said head having a rearwardly extending end free from said tongue, and a head receiving opening on said other portion for coaction with the rear end of said head to lock said portions against accidental separation.

1,695,593. SAVINGS CLOCK. KURT LANDENBERGER, Schramberg, Germany, assignor to Hamburg-Amerikanische Uhrenfabrik, Schramberg, Germany. Filed Jan. 4, 1928, Serial No. 244,453, and in Germany Oct. 5, 1927. 4 Claims. (Cl. 194—19.)



1. In a savings clock, a coin channel, means for engaging the clock movement to prevent the clock from running, means actuated by the weight of a coin for moving said first mentioned means to permit the clock to run, two spring operated members for intercepting a coin in said channel, said members projecting a certain distance one above another into a lateral recess of said channel, and means actuated by the clock movement for moving said members into intercepting position alternatively.

1,695,594. STEEL AND METHOD OF MAKING THE SAME. FREDERICK C. LANGENBERG, New York, N. Y., and MARCUS A. GROSSMANN, Canton, Ohio. Filed June 1, 1927. Serial No. 195,859. 12 Claims. (Cl. 75—1.)

1. A non-hot-short steel containing carbon less than .05% and oxygen less than .03%.

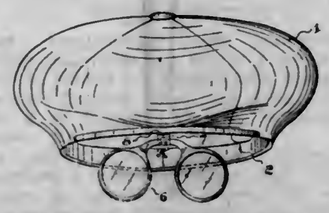
1,695,595. ELASTIC METAL STRINGING AND METHOD OF MAKING THE SAME. WILLIAM A. LARNED, Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio, a Corporation of Ohio. Filed July 12, 1923. Serial No. 651,036. 4 Claims. (Cl. 29—173.)



1. An elastic metal stringing comprising groups of wires that are first wound together in a loose state, and then stretched to a point beyond which they will torsionally engage each other to provide maintained elasticity under the action of a force.

2. The method of making an elastic metal stringing, which consists, first, in winding individual wires into groups, then winding the latter into a larger group, and then stretching the latter to a point beyond which the individual groups comprising it will torsionally engage each other to give maintained elasticity under the action of a force.

1,695,596. MOTORING CAP. JACOB LEVINSKY, Toronto, Ontario, Canada, assignor to Capital Caps Limited, Toronto, Canada. Filed Apr. 1, 1927. Serial No. 180,285. 1 Claim. (Cl. 2—10.)

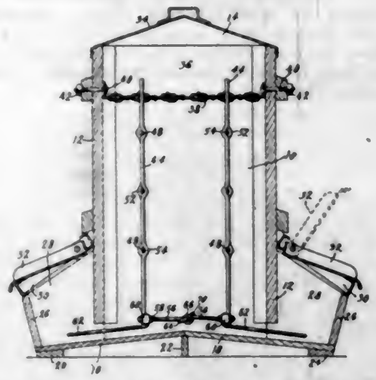


In a peaked cap the combination with its peak of a fastener comprising two parts adapted to be detachably

connected with one another, one of said parts being secured centrally to the underside of the peak, the eye glasses having their frame provided with a clip secured to the centre thereof, the complementary part of the fastener being secured to the clip, whereby the eye glasses may be detachably secured to the peak in front of the wearer's eyes, and the said clip being formed with a flat portion adapted to contact with the underside of the peak to level the eye glasses and prevent their twisting relative to the wearer's eyes.

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1,695,597. AGITATOR FOR FEEDERS. PATRICK C. LYDON, Des Moines, Iowa, assignor to Des Moines Silo & Manufacturing Company, Des Moines, Iowa, a Corporation of Iowa. Filed June 20, 1927. Serial No. 199,987. 8 Claims. (Cl. 119—54.)



1. In a structure of the class described, a hopper, troughs communicating with the lower part of the hopper on opposite sides thereof, a chain, means for supporting said chain in substantially horizontal position in the hopper, a pair of upright members loosely supported in spaced relation on said chain, and opposite laterally projecting actuator elements at the lower ends of said members projecting into the respective troughs and having jointed connection with each other.

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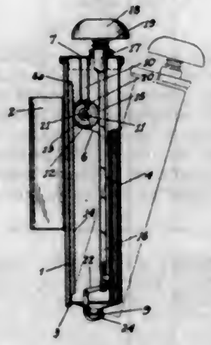
1,695,598. SAND WEDGE. EDWIN KERR MCCLAIN, Houston, Tex. Filed May 15, 1928. Serial No. 277,885. 3 Claims. (Cl. 273—77.)



1. A sand wedge including a shank, a blade thereon whose face is inclined upwardly toward the rear at a sharp angle, and a deflector or wing on the bottom side of the blade comprising a wing extending the length of the blade and separated from the rearward side of the blade by a cleft said wing being rounded at each end.

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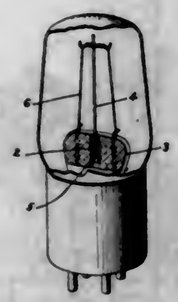
1,695,599. DISPENSER. EDWARD L. MEZOIAN, Porterville, Calif. Filed May 24, 1927. Serial No. 193,780. 8 Claims. (Cl. 221—60.)



1. A device for dispensing the contents of a flexible tube comprising a casing arranged to removably support the tube, one end of said tube having an open mouth, means mounted in the casing for squeezing the tube, operating means for said squeezing means movable in one direction to enable the squeezing means to be moved from the end of the tube opposite the mouth toward the mouth, a closure for the mouth, and means between the operating means and the closure for causing the latter to be moved clear of the mouth simultaneously with the movement of the operating means in said one direction.

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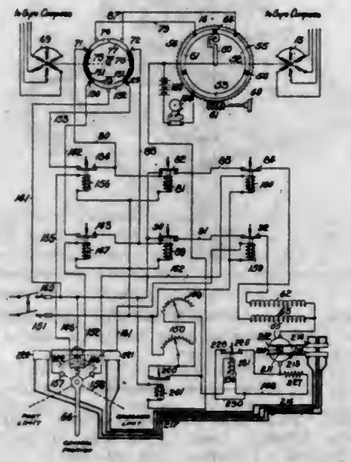
1,695,600. VIBRATION DAMPENER FOR VACUUM TUBES. HERBERT E. METCALF, San Leandro, Calif., assignor to The Magnavox Company, San Francisco, Calif., a Corporation of Arizona. Filed Mar. 23, 1927. Serial No. 177,591. 6 Claims. (Cl. 250—27.5.)



1. In a vacuum tube a hollow metal sleeve sealed into the stem of the tube and a filament support secured at a point adjacent the lower end of the sleeve.



1,695,601. AUTOMATIC STEERING FOR DIRIGIBLE CRAFT. CHESTER B. MILLS, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed June 19, 1922. Serial No. 569,295. 38 Claims. (Cl. 172—282.)



1. In an automatic steering mechanism, means responsive to the movement of a vessel off its course for opposing said movement and tending to return the vessel to its course, and means for rendering said first named means ineffective when said vessel starts on its return movement.

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1,695,602. BUMPER MOUNTING. ALGOT W. NORDGREN, St. Paul, Minn., assignor to Marquette Manufacturing Company, St. Paul, Minn. Filed Feb. 16, 1928. Serial No. 254,687. 4 Claims. (Cl. 293—55.)

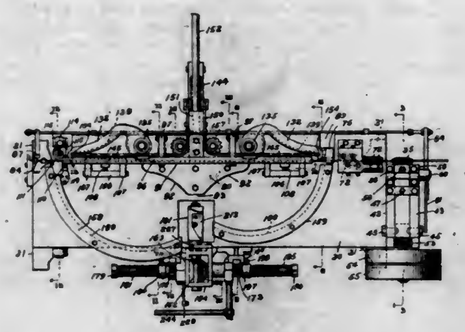


1. In combination with the chassis of an automobile having a recessed opening formed therein, of a bumper comprising a pair of spaced tubular bumper elements, a support having its ends connected at spaced points to said bumper elements, the intermediate portion of said support fitting into said recessed opening and means for clamping it therein.

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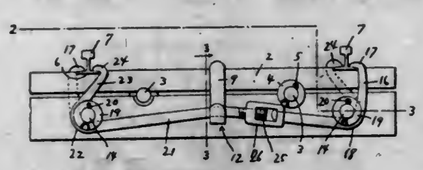
1,695,603. MACHINE FOR MANUFACTURING WIRE GARMENT HANGERS. FRANK MAGIDSON, Pittsburgh, Pa., assignor, by direct and mesne assignments, to Star Service Hanger Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 5, 1926. Serial No. 127,317. 18 Claims. (Cl. 140—71.)

1. In a machine for making wire garment hangers, means for feeding wire into the machine, simultaneously operating means for forming a hook on one end of the wire and severing the other end, a twister, means for bending the wire into the general form of a hanger and for forcing the ends thereof into said twister, means for rotating said twister to form a twist on the ends of the wire below the hook, hanger receiving means and means for swinging said twister from twisting position to discharging position and for discharging hangers onto said receiving means.



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1,695,604. CONCRETE AND STEEL SPRING RAIL TIE. FRANK C. MISH, Greenville, Va. Filed May 10, 1928. Serial No. 276,621. 3 Claims. (Cl. 238—48.)



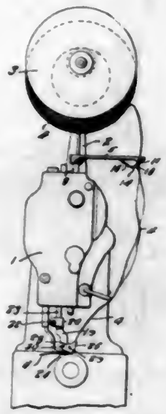
1. In a rail tie, a plastic base, a spring steel plate for disposition on top of the plastic base in spaced relation thereto, rails arranged transversely across the upper face of the steel plate, means for securing the rails against movement independently of the steel plate, said means including a substantially inverted U-shaped member arranged over the intermediate portion of the steel plate and the base, saddles formed on the free ends of the arms of the inverted U-shaped member, pins projecting transversely through the concrete base beneath the respective rails, rods arranged on opposite sides of the plastic base, the outer end portions of the rods being bent for disposition around the respective ends of the pins, laterally disposed base flange engaging feet formed on the upper end of the upwardly bent outer ends of the rods, the intermediate portions of the rods being adapted for rest within the respective saddles.

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1,695,605. ATTACHMENT FOR UTILIZING SHOE-SEWING MACHINES TO STICK A COLD-PROCESS TAPE ON SHOES TO REENFORCE SAME. BAOSAR PASHIGIAN, Haverhill, Mass., and HUBERT J. GALLANT, Exeter, N. H. Filed July 27, 1927. Serial No. 208,775. 3 Claims. (Cl. 154—42.)

1. As a new article of manufacture for a machine of the type described, a device for guiding tape comprising an arm, means for fastening the shank of the arm to the reciprocating rod of a sewing machine, the arm having its free end bifurcated, and having a downwardly extending

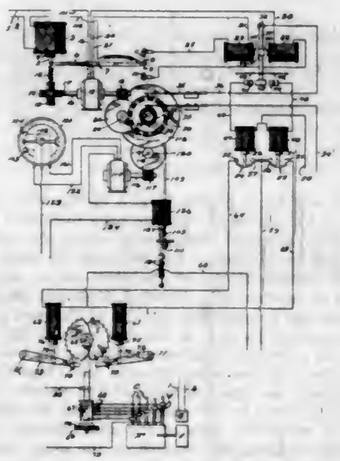
lip, and a flat finger mounted between the bifurcated portions of the end, a wire to which the finger is fastened, a spring fastened to the wire, and means for securing the



spring to the tape guide arm, whereby the finger will resiliently engage a strip of tape as it passes between the bifurcated portions of the arm to keep the tape smooth.

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1,695,606. PRESSURE AND TEMPERATURE CHANGE RESPONSIVE FURNACE-CONTROL MEANS. CHARLES H. QUINN, San Francisco, Calif. Filed Dec. 16, 1924. Serial No. 756,320. 12 Claims. (Cl. 236—26.)

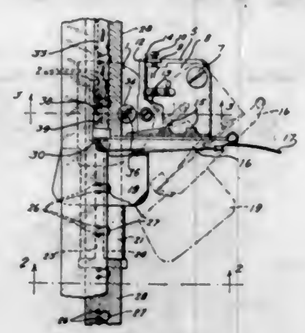


1. The combination with an electric means for controlling the feeding of fuel to a furnace, of pressure controlled electrically operated means responsive, to variations resulting from changes in the rate of fuel feeding to the furnace and to changes in the load on the furnace for operating the electric control means and correspondingly increasing or decreasing the fuel feed.

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1,695,607. ATTACHMENT FOR SEWING MACHINES. LOUIS M. RABINOWITZ, New York, N. Y. Filed Apr. 22, 1924. Serial No. 708,136. 7 Claims. (Cl. 112—138.)

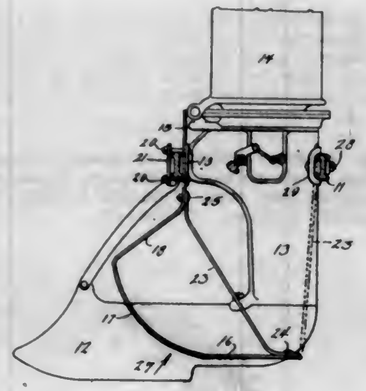
1. In a device of the class described, the combination with stitching means, of a table or platen adapted to support the work, a guide member carried by said table, said guide member being provided with a slot, and said guide member being adapted to receive a strip of hook or eye bearing fabric, with said hooks or eyes projecting through



said slot, a plate pivotally mounted upon said table, a binding folder mounted upon said plate, and a platform mounted upon said folder.

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1,695,608. PLANTER DEPTH GAUGE. ALBA A. RESSEGUIE, Schaller, Iowa. Filed Aug. 11, 1927. Serial No. 212,286. 4 Claims. (Cl. 97—190.)



1. A depth gauge attachment for a corn planter having a transverse, horizontal member, comprising a flat sheet of metal, bent to form a vertical portion, an integral downwardly and forwardly extending nose, and an integral downwardly and rearwardly curved runner, a clamp adapted to embrace and to urge into frictional engagement with each other, the vertical portion and said member, and a brace secured to the vertical portion just below the horizontal member, extending rearwardly and downwardly, and secured to the runner near its rear end, said brace having a slotted connection with the vertical portion.

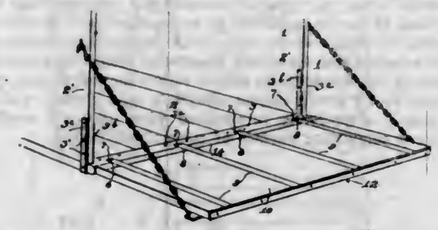
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1,695,609. TAILBOARD AND TAILBOARD MOUNTING FOR TRUCKS AND THE LIKE. FRANK RICHTER, Union, N. J. Filed June 27, 1927. Serial No. 201,880. 4 Claims. (Cl. 296—57.)

1. A tail-board and tail-board mounting embodying, in combination, a hinge member fastened at the edge of the tail of a truck and engaging upper and lower surfaces thereof, and another hinge member mounted at the edge of



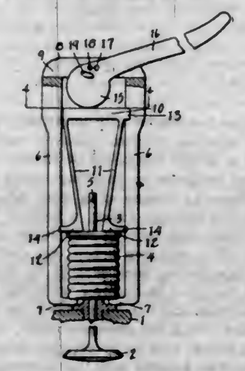
the tail-board and likewise engaging opposite surfaces thereof, one of such hinge members being provided with knuckles and a notch between such knuckles and the other member having a projecting knuckle fitting within said notch, and a pivot member extending across said notch and within the knuckles to connect the two members together



and to provide a close and strong connection between the edge of the truck and the adjacent edge of the tail-board, the hinge member secured to the edge of the tail of the truck extending beyond the face of the tail-board when in vertical position to thereby constitute a bumper or protective means for the truck and tail-board.

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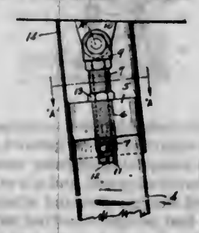
1,695,610. VALVE-SPRING-COMPRESSING DEVICE. IRA EDMUND RITTER, Kalamazoo, Mich. Filed July 20, 1927. Serial No. 207,217. 3 Claims. (Cl. 29—86.3.)



2. A valve spring compressing device comprising a yoke-like body having parallel arms with opposed inwardly projecting spaced spring engaging fingers at their outer ends, the cross member of said body being longitudinally slotted, a bifurcated thrust member slidably engaging the arms of said body, the legs of said thrust member terminating in outwardly projecting spring engaging feet slidably engaging the arms of said body and an eccentric pivotally mounted in the said slot to coact with said thrust member.

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1,695,611. ADJUSTABLE AIRPLANE STRUT TERMINAL. JOHN C. SANDERS, Seattle, Wash., assignor to Boeing Airplane Company, Seattle, Wash. Filed Dec. 8, 1927. Serial No. 238,519. 1 Claim. (Cl. 244—31.)



A strut terminal for air craft, comprising an internally threaded body member mounted within a strut extremity, a threaded tubular member adapted to be advanced or retarded within the internally threaded body member, means embraced by said threaded tubular member for engagement with a wing appendage, and means for compensating wear or end play between said tubular member and said means embraced by said tubular member, a means for locking said threaded tubular member in any of its advanced, retarded, or otherwise adjusted positions, and means of corresponding section to the strut 4 housing the terminal and preserving the continuity of the strut in any of its positions.

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1,695,612. METHOD OF PRODUCING REMEDIES FROM GLANDULAR ORGANS. GEORG SCHRÖDER, Schomber, near Wildbad, Germany. Filed Nov. 29, 1926, Serial No. 151,614, and in Germany Dec. 16, 1925. 8 Claims. (Cl. 167—7.)

1. The method of producing protective preparations and remedies comprising causing the suspension of cells of a glandular organ to freeze, allowing it to thaw and filtering.

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1,695,613. PELT STRETCHER. JOHN J. SMITH, Allston, Mass. Filed Aug. 7, 1926. Serial No. 127,938. 7 Claims. (Cl. 149—21.)



1. A pelt stretcher comprising a frame having spring arms and a spreader bar for connecting said arms, said bar being provided with notches to receive said arms, said notches having portions frictionally locking said arms when said bar is in one angular position with respect to the arms, and said arms being freely movable into and out of said notches when said bar is in another angular position.

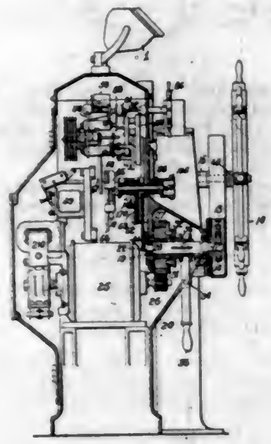
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1,695,614. APPARATUS FOR THE RECOVERY OF FINE VALUES FROM SAND. EDWIN A. SPERRY, Tientsin, China. Filed Mar. 4, 1927. Serial No. 172,724. 3 Claims. (Cl. 209—44.)



1. In a jig screen having a framework, a screen box having an open discharge end, means for supporting the screen box from the framework comprising straps normally inclined downwardly and forwardly, means for reciprocating the screen box, a panning and stratifying means comprising a plurality of alternate sections of imperforate and screen material located in the screen box and lying substantially in the same plane, and means for directing sprays of water against the upper surface of the screen sections.

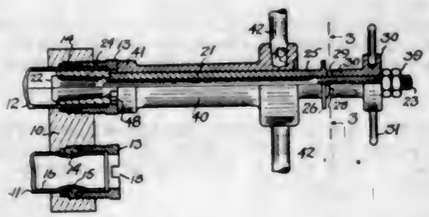
1,695,615. AUTOMATIC STEERING FOR DIRIGIBLE CRAFT. ELMER A. SPERRY, Jr., Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 9, 1923, Serial No. 630,853. Renewed Dec. 5, 1927. 35 Claims. (Cl. 172—282.)



1. In a ship's steering device, the combination with the rudder, of a controller for the rudder, compass actuated means therein, and variable speed gearing in the connections between the compass means and controller for causing a relatively greater movement of the rudder by a given movement of the ship when the rudder is near its central position than when it is displaced therefrom.

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1,695,616. METHOD OF AND TOOL FOR PACKING CONDENSER TUBES OR THE LIKE. HORACE A. STAPLES, Plainfield, N. J., assignor to National Electric Products Corporation, New York, N. Y., a Corporation of Delaware. Filed Mar. 14, 1927. Serial No. 175,355. 4 Claims. (Cl. 81—3.)

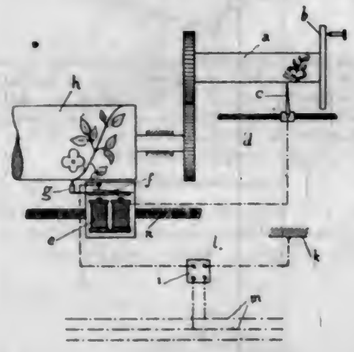


2. A tool of the class described in combination, an expanding mandrel with means to expand the mandrel, an independent wrench co-axial therewith and adapted to revolve and slide thereon without operating the mandrel.

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1,695,617. PROCESS OF AND APPARATUS FOR ENGRAVING PRINTING CYLINDERS. ALBERT TRISSÈRE and JEAN TRISSÈRE, St. Julien, France. Filed Sept. 18, 1925, Serial No. 57,178, and in France July 27, 1925. 2 Claims. (Cl. 78—13.1.)

1. The improved process of engraving printing rollers, consisting in providing a design composed of electric conducting and nonconducting surfaces upon a rotating pattern roller of conductive material, in causing a needle controlling a tool operating electrical circuit to travel lengthwise along the pattern roller in unison with its rotary movement, in positively rotating the roller to be engraved by means of a gear wheel transmission derived from the pattern roller, the ratio of transmission corresponding to the size of the reproduction to be obtained, and in reproducing the design on the roller to be engraved by means of a hammering tool travelling lengthwise along the printing roller in relation with its proper rotary movement and operated by an electromagnet placed in said circuit, which is closed, respectively interrupted when the said needle meets a conducting surface of the pattern design.



2. Apparatus for electrically engraving printing rollers, comprising a rotating pattern roller of conductive material and carrying a design composed of electric conducting and nonconducting surfaces, a rotating roller to be engraved positively driven by means of a gear wheel transmission derived from the pattern roller, a pointer in contact with the pattern roller and moving lengthwise along this roller under action of a rotating screw, an electromagnet with trembler, a hammering tool carried by the said trembler and adapted to enter in contact with the rotary printing roller, the electromagnet together with the said tool travelling lengthwise along the printing roller, under the action of a rotating screw, and an electrical circuit including the pattern roller, the pointer and the electromagnet, substantially as described.

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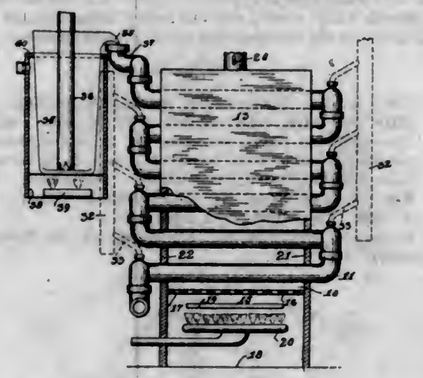
1,695,618. GLOVE-DISPLAY RACK. ROBERT E. THOMPSON, Des Moines, Iowa. Filed Dec. 5, 1927. Serial No. 237,733. 1 Claim. (Cl. 211—164.)



In a device of the class described, a support, a shaft, discs fixed thereto, rods adjacent the peripheries of said discs and indicating devices comprising angular members each having a portion mounted on a rod and a portion extended at right angles to said first portion and substantially parallel with its rod, said last portion coacting with the periphery of the disc to prevent pivotal movement of the indicating device on its rod.



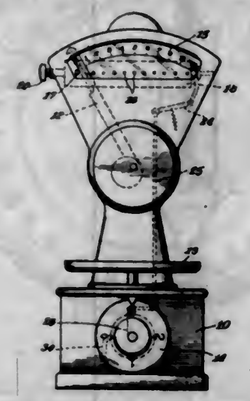
1,695,619. ACID-CONCENTRATING CHAMBER. OTTO C. TRAUTMANN, New York, N. Y. Filed Apr. 15, 1927. Serial No. 184,066. 14 Claims. (Cl. 23—274.)



1. In an acid concentrating chamber having a fire box with a source of heat and an exit for the heating gases, provided with regulating means, the combination comprising an inclined flue, connecting said fire box and exit, a plurality of concentrating chambers, having horizontally extending tubular parts joined and arranged in stair-way fashion and having only said horizontal parts arranged in said flue so as to have the joints located outside of the same, means for preheating the acid, means connecting aforesaid preheating arrangement with the uppermost concentrating chamber, and an aperture in each concentrating chamber for the escape of the vapors.

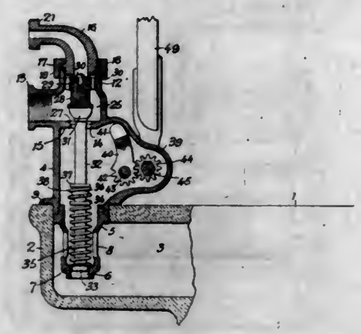
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1,695,620. COMPUTING SCALE. CORNELIS FRANCISCUS MARIA VAN BERKEL, Wassenaar, Netherlands, assignor to Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines Volgens van Berkel's Patent en van andere Werktuigen, Rotterdam, Netherlands, a Limited Liability Company of the Netherlands. Filed July 13, 1927, Serial No. 205,299, and in the Netherlands Mar. 5, 1926. 8 Claims. (Cl. 265—37.)



1. A weighing scale having a device for adjusting the capacity of said scale, an indicating dial having a table thereon of various unit prices of commodities and a table having numerals thereon arranged according to varying weighing capacities of said scale, means for adjusting said dial for different unit prices, and means for adjusting said dial corresponding with the weighing capacity for which said scale is set.

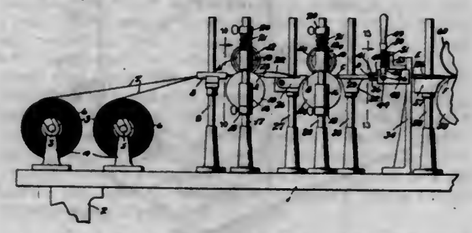
1,695,621. FLUSHING MECHANISM. JOSEPH A. VOGEL and ARTHUR J. JENNINGS, Wilmington, Del., assignors to Joseph A. Vogel Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 5, 1927. Serial No. 181,108. 14 Claims. (Cl. 4—21.)



1. In a flushing apparatus, a bowl, a valve casing extending vertically above the bowl and communicating at its lower end therewith, a valve device in said casing for controlling the flow of water from the casing to the bowl, a valve actuating rocker arm mounted in said casing, a rock shaft journaled in the casing, gearing between said rock shaft and rocker arm, and an actuating element connected to said rock shaft for imparting valve controlling movements through said gearing to the rocker arm.

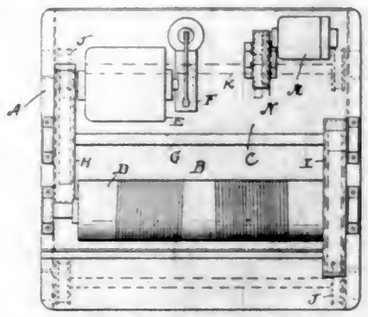
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1,695,622. ARTIFICIAL CANE-MAKING APPARATUS. ALBERT J. WACHSMUTH, Muskegon, Mich. Filed Jan. 21, 1924. Serial No. 687,467. 6 Claims. (Cl. 154—1.)



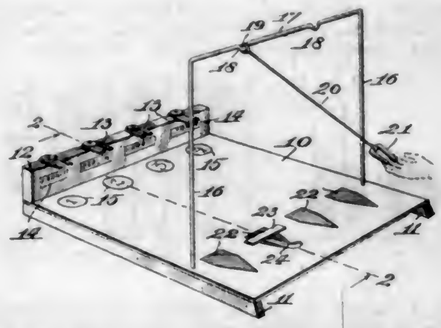
6. A machine for making artificial cane comprising, means to guide a relatively narrow strip of paper into the machine in a horizontal plane, a pair of rollers rotatable on horizontal axes between which the strip passes, one roller having a V-groove in its periphery and the other roller having a corresponding V-shaped periphery, a fixed die having a V-shaped entry end and a flat shaped exit end arranged in a horizontal plane, a second pair of rollers rotatable on horizontal axes between which the strip passes one roller having an annular V-groove in its periphery and the other roller having a corresponding V-shaped periphery, a second fixed die through which the strip passes, said second die having a V-shaped entry end and a flat shaped exit end arranged in a vertical plane, a third pair of rollers rotatable on vertical axes between which the strip passes, one of said rollers having a V-groove in its periphery and the other roller having a corresponding V-shaped periphery, a third fixed die through which the strip passes, said die having a relatively open entry end and a relatively closed flat exit end arranged in a horizontal plane and means for drawing the strip through the machine comprising a pair of driven rollers between which the strip passes, one of said rollers having an annular groove with a concave bottom and the other roller having an annular tongue adapted to enter said groove and press the folded strip against said concave bottom, the members being located in the machine and acting upon the strip in the order named.

1,695,623. HOIST-TROLLEY FRAME. WILLIAM G. WEHR, East Cleveland, Ohio, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio, a Corporation of Ohio. Filed July 11, 1927. Serial No. 204,783. 16 Claims. (Cl. 105—135.)



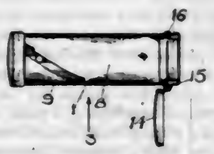
1. A fabricated hoist trolley frame having side and cross members integrally united by welding, and plates integrally united by welding along opposite edges to said side members and welded to said cross members.

1,695,624. GAME APPARATUS. WALTER W. WELPLEY, Hawthorne, Calif., assignor of one-half to H. C. Proulx, Pasadena, Calif. Filed Nov. 9, 1927. Serial No. 232,048. 7 Claims. (Cl. 273—97.)



1. In a game apparatus, a permanent magnet suspended so as to swing through a vertical arc, a relatively fixed permanent magnet positioned adjacent to the path of movement of the swinging magnet, and a game piece that is adapted to be attracted by said magnets.

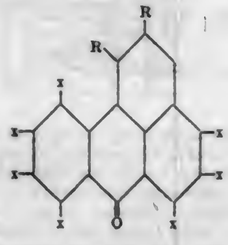
1,695,625. LIP-STICK CONTAINER. HENRY W. WILD, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed May 27, 1927. Serial No. 194,555. 4 Claims. (Cl. 206—56.)



3. In a holder for cosmetics and the like, the combination of an outer casing, a cosmetic holder in the casing, means for propelling the holder longitudinally in the casing to protrude and withdraw the cosmetic, and a member in the casing having sets of similarly arranged stops so that the member may be assembled in the casing either end to, said stops acting to prevent rearward movement of the cosmetic holder during use, the holder being released from the stops on the manipulation of the propelling means.

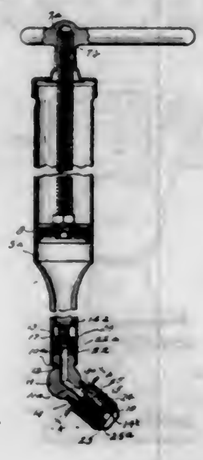
1,695,626. BZ-METHYL BENZANTHRONES AND PROCESS FOR PREPARING THE SAME. ARTHUR WOLFRAM and HEINRICH GREUNE, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 28, 1925, Serial No. 72,033, and in Germany Dec. 4, 1924. 10 Claims. (Cl. 260—61.)

8. As new products the compounds of the following formula:



wherein x represents hydrogen or any substituent and one R stands for a methyl group and the other for hydrogen.

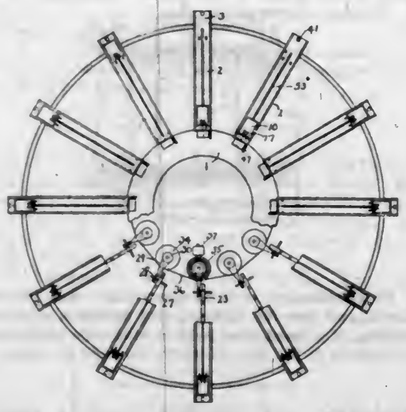
1,695,627. GREASE GUN. OSCAR ZERK, now, by judicial change of name, Oscar Ulysses Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 30, 1921. Serial No. 518,755. 2 Claims. (Cl. 221—47.4.)



1. In a lubricant compressor having a compressor barrel, a swivel member rotatably mounted coaxial with said compressor barrel, means for preventing leakage between the compressor barrel and said swivel member, and coupling means rigid with the latter and disposed at an obtuse angle to the axis thereof.

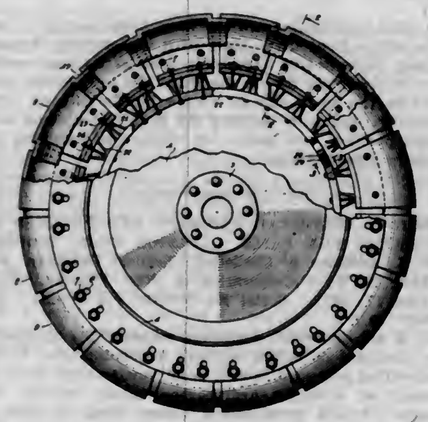


1,695,628. SERVING DEVICE. BENJAMIN HAWKINS ALLEN, Beaumont, Tex. Filed Apr. 16, 1926, Serial No. 102,455. Renewed Oct. 23, 1926. 10 Claims. (Cl. 186—1.)



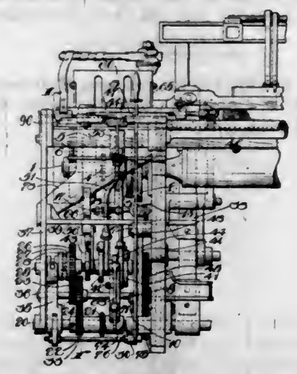
1. In an apparatus of the character described, a central service stand, a plurality of slideways radiating from said stand, service trays on said slideways, means to move said trays from said stand to the outer end of said slideways and separate means to return said trays to said stand.

1,695,629. RESILIENT WHEEL. JACK ALLEN, Brooklyn, N. Y. Filed Mar. 30, 1928. Serial No. 265,951. 5 Claims. (Cl. 152—29.)



1. A resilient wheel, comprising a body, a tire member associated with the body, said tire member being formed with a plurality of separate sections, certain of said sections being formed with underlapping extensions underlapping the adjacent sections, springs for normally holding said sections in an outer position, a floating ring for supporting said springs, a disk on each side of the floating ring and overlapping part of said tire member and a radially slidable connection between said disks and said tire member.

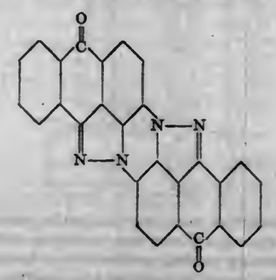
1,695,630. MECHANISM FOR AUTOMATICALLY REPLENISHING WEFT IN POWER LOOMS. HIKOSUKE ARIMA, Tokyo, Japan. Filed Apr. 14, 1925, Serial No. 22,989, and in Japan Apr. 24, 1924. 3 Claims. (Cl. 139—227.)



1. Mechanism for automatically replenishing the weft in a power loom, comprising, in combination, a main shaft, a driving pulley loosely mounted and slidable with a friction disc on the main shaft, a second friction disc fixed to the main shaft, a change-shaft, a clutch on the change-shaft a handle, links and levers connecting the handle with the aforesaid slidable pulley and disc on the main shaft, a clutch shifter connected to said handle for shifting one of the members of the aforesaid clutch of the change-shaft, means for transmitting motion from the driving pulley to the change-shaft through the clutch, means for moving the handle whenever the weft breaks or is missing to free the slidable disc to stop the weaving operation and let in the aforesaid clutch member to effect a change of shuttle, a cam rotatable from the change-shaft to reset the handle and restart the weaving operation, a shuttle box provided with a slidable board arranged to open and close the back of the box, a push rod adapted to move through the front wall of the box and push backward the shuttle in the box, cams on the change-shaft to actuate said slidable board and push rod, a reserve shuttle magazine, a shuttle transferrer and means on the change-shaft for moving the transferrer to carry a fresh shuttle from the magazine into the shuttle box upon the shuttle in the latter being ejected by means of the push rod.

1,695,631. VAT DYESTUFF DERIVED FROM 2-HALOGEN-1,9-PYRAZOLANTHRONE. ROBERT BERLINER, BERTHOLD STEIN, and WILLY TRAUTNER, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1927, Serial No. 166,005, and in Germany Mar. 3, 1926. 7 Claims. (Cl. 260—29.)

5. As a new product the vat dyestuff of the anthraquinone series having most probably the formula:

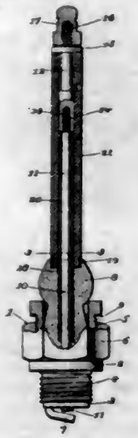


which dyestuff is in dry, purified form a reddish-brown powder only slightly soluble in the usual organic solvents,

soluble in boiling nitrobenzol with a green fluorescence, crystallizing therefrom upon cooling in the form of fine, small brownish-red needles which are soluble in concentrated sulphuric acid with a deep blue color, and dyes cotton from a blue vat blue shades changing upon oxidation into a powerful clear red shade of excellent fastness properties.

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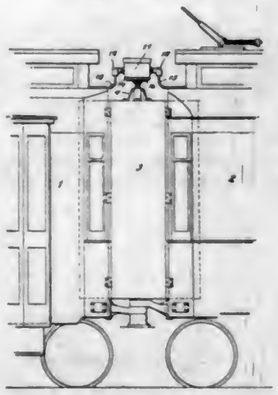
1,695,632. SPARK PLUG. CHARLES C. CAMPBELL, Washington, D. C. Filed Mar. 8, 1927. Serial No. 173,720. 3 Claims. (Cl. 123—169.)



1. A spark plug comprising a metallic shell provided with an outer electrode, a core of insulation secured in the shell, a central electrode extending through the said core and projecting from the outer end thereof and formed with a flange adjacent to its outer end, a pair of concentrically arranged sleeves of insulation interposed between the flange and the core, the inner of the said sleeves having its inner end extended from the inner end of the outer sleeve and the outer end of the outer sleeves extending from the outer end of the inner sleeve.

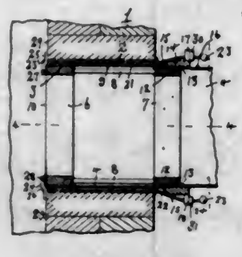
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1,695,633. JUNCTION-BOX MOUNTING. ALFRED T. CLARK, HENRY A. LEONHAUSER, and JOHN R. JESTER, Baltimore, Md. Filed June 6, 1925. Serial No. 35,474. 8 Claims. (Cl. 105—4.)



1. In combination with the conducting cables and conduits of an electric railway car including articulated sections each having its own conductors, a junction box for the conductors pivotally mounted at a position in line with the axis of the car with its axis in the axis of articulation of the car sections.
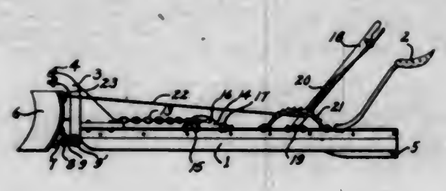
1,695,634. STOVEPIPE LOCK. EDWIN CORCORAN, Portland, Oreg. Filed Aug. 30, 1927. Serial No. 216,445. 7 Claims. (Cl. 126—318.)



1. In combination with a stove pipe, lock members, means in said pipe for carrying said members, said means consisting of a band ring held in said pipe and another ring clamped in the pipe to which the band is linked.

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1,695,635. ROAD SCRAPER. THOMAS L. DUFFIELD, Orient, Wash. Filed May 25, 1927. Serial No. 194,084. 2 Claims. (Cl. 37—177.)



1. The combination with a drag beam having a rear shoe and a front draw head, of a transversely disposed scraper blade having a coupling head at its rear center, a clevis pivoted to the coupling head and to the draw head whereby the blade may be swung horizontally or tilted vertically, means for holding the blade in adjusted horizontal position, and means for tilting and retaining the blade in tilted position.

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1,695,636. CHEMICAL PRODUCT AND PROCESS OF MAKING THE SAME. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Filed June 17, 1922. Serial No. 569,138. 3 Claims. (Cl. 106—23.)

3. A process which comprises substantially increasing the plasticity of rubber without dissolving same by incorporating with said rubber, in an unvulcanized state, an amount of aromatic hydrocarbon rubber solvent, the amount of said unvulcanized rubber being at least as great as the amount of said solvent, and then treating the plasticized material with chlorine under superatmospheric pressure until it is chlorinated to a stage above heptachlorcaoutchouc.

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1,695,637. CEMENT. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Mar. 22, 1924. Serial No. 701,020. 5 Claims. (Cl. 87—17.)

3. An adhesive composition comprising a solution of chlorinated rubber in a solvent for chlorinated rubber, in such proportions as to form an adhesive composition.



1,695,638. COATING COMPOSITION AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Filed Aug. 29, 1921. Serial No. 496,594. 23 Claims. (Cl. 134—17.)

6. A composition comprising a drying oil, a volatile solvent of a not readily inflammable character and chlorinated rubber.

15. A varnish comprising chlorinated rubber as an essential constituent of the total solids, incorporated with tung oil and a volatile thinner.

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1,695,639. LIQUID COMPOSITION CONTAINING CHLORINATED RUBBER. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y., a Corporation of West Virginia. Filed May 5, 1923. Serial No. 636,987. Renewed Apr. 30, 1925. 6 Claims. (Cl. 134—17.)

3. A composition adapted for coating straw hats which comprises a solution of a chlorinated rubber containing substantially over 66⅔% chlorine, in a volatile solvent and coloring matter also soluble in said solvent.

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1,695,640. CHLORINATED-RUBBER COMPOSITION CONTAINING LINSEED OIL. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Mar. 22, 1924. Serial No. 701,024. 2 Claims. (Cl. 134—17.)

2. A coating composition comprising a solution of chlorinated rubber and a drying oil in a volatile solvent, less of the drying oil being present than chlorinated rubber, such composition yielding a flat or dull finish.

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1,695,641. STABILIZED CHLORINATED RUBBER. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Mar. 22, 1924. Serial No. 701,021. 3 Claims. (Cl. 134—17.)

3. A composition containing chlorinated rubber of not substantially below 67% of chlorine, and an organic amino antacid material, both being soluble in a common solvent.

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1,695,642. VARNISH. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Mar. 22, 1924, Serial No. 701,028. Renewed Sept. 10, 1927. 6 Claims. (Cl. 134—26.)

2. A composition adapted for use as a varnish reviver, comprising chlorinated gutta percha, a solvent therefor and a resinous homogenizing agent.

5. A composition, adapted for use as a varnish reviver, comprising chlorinated gutta percha, and aromatic solvent therefor, a resin and a phenolic phosphate.

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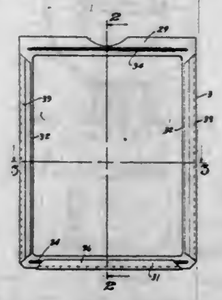
1,695,643. ARTIFICIAL FIBER AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Chadeloid Chemical Company, a Corporation of West Virginia. Filed Mar. 22, 1924, Serial No. 701,029. Renewed Oct. 9, 1926. 8 Claims. (Cl. 18—54.)

1. The process of making fibers which comprises forming a concentrated solution of chlorinated rubber into the shape of a fiber and removing the solvent therefrom.

4. As a new product an artificial thread comprising chlorinated rubber.

6. An artificial thread containing chlorinated rubber as an essential constituent of its composition.

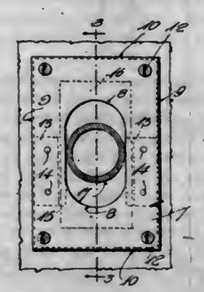
1,695,644. FRAME FOR PHOTOGRAPHIC FILMS. MERLE F. FABER, Daly City, and JOSEPH KUSBER, Jr., Colma, Calif. Filed Apr. 14, 1924. Serial No. 706,441. 1 Claim. (Cl. 95—100.)



In a device of the character described, a frame for holding a film comprising longitudinal and transverse frame members, marginal flanges of the longitudinal members turned upon the latter allowing the film to be slidably received between the flanges and the frame members and a flange on the remote transverse frame member formed to stop the film and to confine the upper edge thereof with beads projecting from the idle faces of the frame members for strengthening the structure of the frame, said beads being provided with inwardly extending flanges adapted to hold the film flat, said beads being adapted to hold adjacent portions of the frame members in spaced relation.

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1,695,645. PLATE THIMBLE FOR PIPES. JOHN W. FARLEY, Cleveland, Ohio. Filed Oct. 24, 1927. Serial No. 228,329. 3 Claims. (Cl. 126—314.)



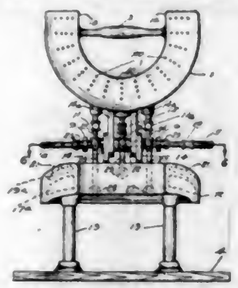
1. A device of the class described comprising a one-piece relatively large outer plate formed with a slot having its edges turned laterally in the same direction to provide side and end flanges, a one-piece relatively small inner resilient plate contacting slidably with the inner side of said outer plate within the confines of said flanges, said inner plate having an opening for registration with said slot, and guides for slidably mounting said inner plate, said guides being secured to said outer plate and lying against the inner side of said inner plate.

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1,695,646. HAT-RENOVATING MACHINE. LOUIS FLICKER, Los Angeles, Calif.; Annie Flicker administratrix of said Louis Flicker, deceased. Filed Dec. 13, 1923. Serial No. 680,406. 2 Claims. (Cl. 223—31.)

1. A hat renovating machine comprising superposed complemental steaming and pressing members shiftably mounted to occupy a renovating and a non-renovating position, each of the members having an arcuate portion designed to embrace approximately one-half of a hat brim,

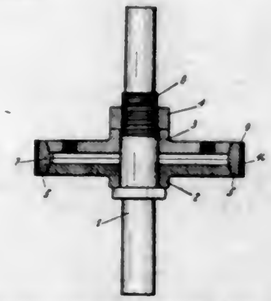
each member having substantially straight extensions beyond the ends of its arcuate portion, the extensions being substantially parallel, the extensions and the arcuate por-



tion being adapted to receive a hat presented endwise therebetween and together embracing a portion of the hat brim greater than one-half thereof.

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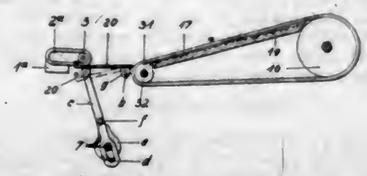
1,695,647. FILE, RASP, OR LIKE TOOL. EMIL FURLER, Zurich, Switzerland. Filed Nov. 4, 1926, Serial No. 146,217, and in Switzerland Nov. 15, 1925. 1 Claim. (Cl. 29—78.)



A tool of the class described comprising a file forming an open ring, an open ring on the periphery of which said file is arranged, a coupling piece between the ends of the open ring and to which the ends of the file are secured, a pair of discs on which said open ring is peripherally arranged, said discs being peripherally beveled in opposite directions and said ring being correspondingly beveled on its inner periphery so that movement of said discs toward each other causes said ring to be diametrically expanded, a shaft on which said discs are mounted and means coacting with the shafts to move the discs toward and from each other.

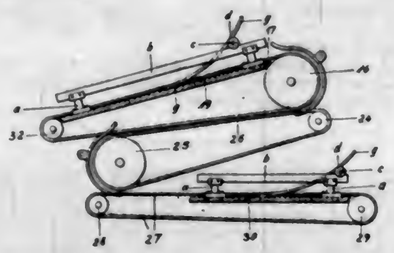
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1,695,648. APPARATUS FOR FEEDING PAPER SHEETS. JULIUS GIESECKE and HERMANN GIESECKE, Leipzig-Leutzsch, Germany. Filed Sept. 24, 1927, Serial No. 221,834, and in Germany Nov. 8, 1926. 2 Claims. (Cl. 271—50.)



1. In an apparatus for feeding paper sheets, the combination of lateral frame parts having horizontal elongated slots therein, a suction-rod having trunnions slidably mounted in said slots, a table plate located underneath said suction-rod and turnably mounted on a fixed fulcrum, substantially as set forth.

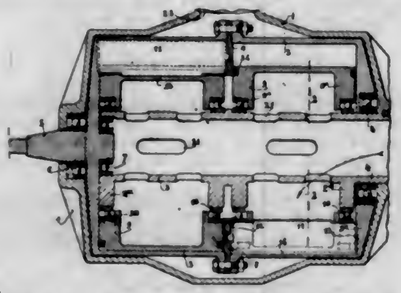
1,695,649. APPARATUS FOR FEEDING PAPER SHEETS. JULIUS GIESECKE and HERMANN GIESECKE, Leipzig-Leutzsch, Germany. Filed Sept. 24, 1927, Serial No. 821,835, and in Germany Nov. 5, 1926. 5 Claims. (Cl. 271—37.)



1. In an apparatus for feeding paper sheets, the combination with a conveyor ribbon and a table plate underneath its upper part, of fixed rails located on both sides of said table plate beyond said conveyor ribbon and directed parallel to the latter, a detachable weakly curved sheet-reception rake forming an inclined plane and during its use guided at its lower end on the conveyor ribbon and on the table plate respectively and at its upper end on said rails.

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1,695,650. PUMP AND THE LIKE. EDOUARD GODILLOT, Paris, France, assignor to Roland Laraque, Paris, France. Filed Feb. 14, 1927, Serial No. 168,147, and in France Feb. 18, 1926. 4 Claims. (Cl. 103—121.)



1. Apparatus of the class described comprising an outer cylinder having a port in its periphery, an inner cylinder arranged eccentrically in the outer cylinder and having a peripheral port, one of said cylinders being arranged for rotary movement with respect to the other and each of said cylinders having heads, a tubular element extending through the inner cylinder concentrically with the outer cylinder and having eccentrics on which said inner cylinder turns, said tubular element having ports, and a substantially radial vane bearing against the inner periphery of the outer cylinder and arranged in substantially radial recesses in the heads of the inner cylinder which recesses are of greater width than said vane to permit lateral play of said vane and packing means for said piston.

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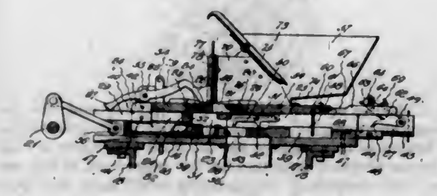
1,695,651. NUT-CRACKING MACHINE. WILEY NORTH GRADICK, Tyler, Tex., assignor to Alex Woldert Company, Tyler, Tex., a Corporation of Texas. Filed May 26, 1927. Serial No. 194,426. 27 Claims. (Cl. 146—12.)

4. A nut cracking machine comprising a horizontally elongated body hollow from end to end, the upper side of said body having a nut inlet and the lower side thereof being formed with a nut outlet spaced forwardly from said inlet, the upper portion of said body being formed with one longitudinal slot in rear of said inlet and with a second longitudinal slot in front of said inlet, a nut-cracking plunger slidable in the rear portion of said body





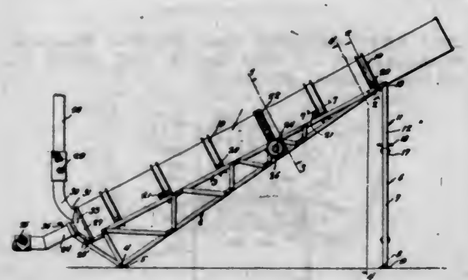
and having a lug projecting upwardly through said one slot, a transverse crank shaft mounted at the rear end of said body and a pitman connecting said crank shaft with said plunger, a floating anvil slidable in the front portion of said body and having a longitudinal slot under the second named slot, said anvil being co-operable with said plunger in cracking a nut received between plunger and anvil from said inlet, the front portion of said anvil having longitudinally spaced teeth, a dog pivoted to said body and co-operable with said teeth to arrest forward movement of the anvil under influence of the nut and plunger as the nut approaches the aforesaid outlet, a nut



hopper mounted over said body, a feed slide resting slidably on said body for feeding nuts one at a time to said inlet, the rear end of said feed slide being directly connected to the aforesaid lug whereby plunger and feed slide must move bodily, means at the front end of said feed slide for controlling the above-named dog and releasing it after cracking of the nut, permitting dropping of the cracked nut through said outlet, and a rigid pin projecting downwardly from said feed slide through said second slot and into the slot of said anvil, this slot and said pin serving to return the anvil to its initial nut-engaging position as the plunger and slide again move rearwardly.

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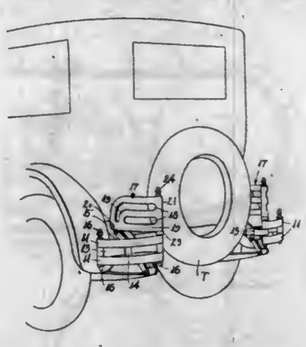
1,695,652. DRYING APPARATUS. SHERWOOD GREEN, Berkeley, Calif. Filed Jan. 13, 1928. Serial No. 246,568. 12 Claims. (Cl. 34—6.)



1. In drying apparatus, a rotary inclined drying chamber, means for delivering the material to be dried to the lower portion of the chamber, and means for delivering a blast of air into the chamber in a direction to provide for a current of air flowing longitudinally within the chamber toward the upper end thereof.



1,695,653. AUTOMOBILE BUMPER. JOHN N. HELTZEL, Warren, Ohio. Filed Oct. 28, 1925, Serial No. 65,358. Renewed Nov. 28, 1927. 16 Claims. (Cl. 293—55.)

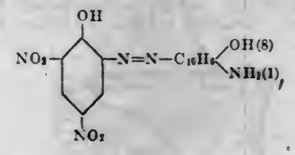


1. The combination with an automobile bumper and its means for attachment to the frame of an automobile, of an attachment offset vertically out of the horizontal plane of the bumper comprising a plate adapted to be secured at one end to the frame and having means at its other end connected to the bumper.

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1,695,654. AZO DYESTUFF AND CELLULOSE DERIVATIVES DYED THEREWITH. WINFRID HENTRICH, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 4, 1927, Serial No. 166,013, and in Germany Feb. 26, 1926. 4 Claims. (Cl. 260—92.)

2. As a new product, a dyestuff substantially identical with a dyestuff obtainable by coupling the diazo-compound of 4.6-dinitro-2-amino-1-hydroxybenzol with 1-amino-8-hydroxynaphthalene having most probably the formula:



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1,695,655. MATERIAL FOR TANNING AND PROCESS OF MAKING THE SAME. CLARENCE J. HERRLY and ARTHUR MARSHALL MATHESON, Niagara Falls, N. Y., assignors to Niacet Chemicals Corp., a Corporation of New York. Filed Mar. 7, 1928. Serial No. 259,917. 11 Claims. (Cl. 260—4.)

1. The process of making a tanning material which comprises condensing a phenolic body containing one hydroxyl group and an aldehyde containing one or more carbon atoms at a temperature of 40° to 65° C. in the presence of a small amount of a condensing agent, and adding the condensed material to an excess of sulphuric acid at said temperature to form a soluble product.

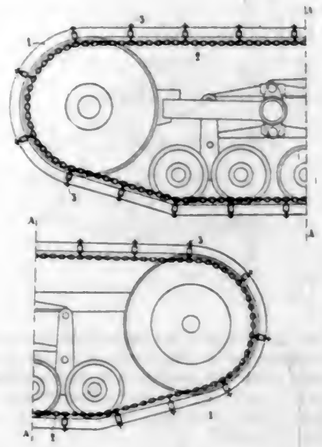
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1,695,656. METHOD OF PRODUCING NARCOTICA. ERICH HESSE, Breslau, Germany, assignor to the Firm Gehe & Co. A.-G., Dresden, Germany. Filed Nov. 17, 1927, Serial No. 234,039, and in Germany Mar. 10, 1927. 5 Claims. (Cl. 167—7.)

1. A method of producing anæsthetic remedies, consisting in treating cocaine-containing substances with adonidine.

5. As a commercial product, an anæsthetic remedy containing cocaine and adonidine.

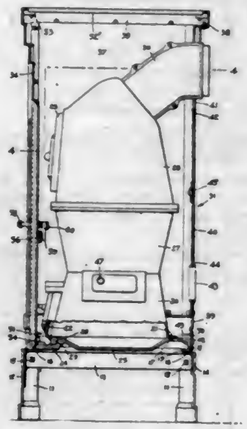
**1,695,657. TRACTION-INCREASING DEVICE FOR ENDLESS FLEXIBLE TRACK BELTS.** ADOLPHE KEGRESSE, Paris, France. Filed Apr. 2, 1926, Serial No. 99,283, and in France Apr. 6, 1925. 1 Claim. (Cl. 305—10.)



The combination of an endless, flexible track belt; and an endless, flexible non-skid device fitting around and conformably over the belt on the outside thereof and embodying spaced, longitudinal side members disposed inwardly of the belt between its stretches and cross-pieces connecting the same, said side members having a developed length which is appreciably less than that of the belt so as to produce a relative displacement of mathematically-determined extent betweeen the belt and the non-skid device at each complete revolution of the two.

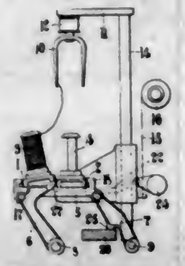
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**1,695,658. HEATER.** HENRY LANGE, Quincy, Ill. Filed Jan. 6, 1927. Serial No. 159,403. 3 Claims. (Cl. 126—67.)



1. A heater comprising a stove having a fuel door and an ashpit door, a casing surrounding the stove and having an opening to expose said doors, a pair of doors hingedly mounted at the opposite side edges of said opening of the casing, a bar extending across said opening intermediate said fuel and ashpit doors and having its terminals secured to the casing behind the edge portions thereof at said opening, and means for latching said pair of doors to said bar.

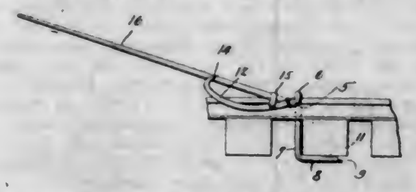
**1,695,659. DOFFING MECHANISM FOR SPINNING, TWISTING, AND LIKE MACHINES.** JOHN PRINGLE MACKIE, commonly known as Jack P. Mackie, Belfast, Ireland, assignor to James Mackie and Sons, Limited, Belfast, Ireland, a British Company. Filed Apr. 30, 1927, Serial No. 187,945, and in Great Britain July 19, 1926. 7 Claims. (Cl. 118—18.)



1. A doffing motion for spinning, twisting and like machines, comprising in combination, a pair of interchangeable bobbin rails, a support for the same comprising a rocking frame pivotally mounted on the framework of the machine, and mechanism for swinging said frame into positions required during the transfer and doffing operations.

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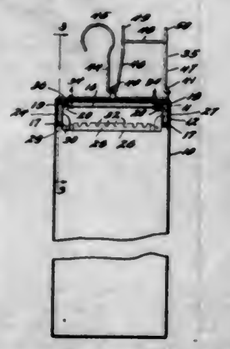
**1,695,660. TIE NIPPER.** WILLIAM W. MAJOR and JAMES C. CARPENTER, Jr., Clifton Forge, Va. Filed Aug. 9, 1927. Serial No. 211,750. 2 Claims. (Cl. 254—121.)



1. In a tool of the class described, a bar having a curved end portion, a right angled portion forming a continuation of the curved portion, a jaw forming a continuation of the right angled portion, said jaw embodying a downwardly and forwardly extended portion, said right angled portion adapted to rest on a railway rail, and said forwardly extended portion adapted to engage under a tie when the bar is swung downwardly, to move the tie into engagement with the rail.

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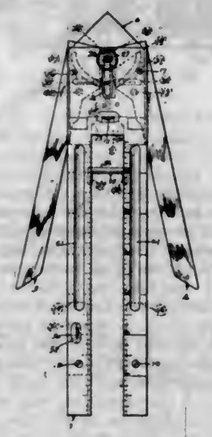
**1,695,661. GARMENT BAG.** HENRY C. MONTAGUE, Washington, D. C. Filed Mar. 1, 1927. Serial No. 171,840. 6 Claims. (Cl. 312—5.)



3. A clothing receptacle comprising a flexible envelope, a spreader inside the envelope, means connected thereto providing a pair of suspension apertures exterior of said bag and a wire passing through said apertures, one end of the wire forming a supporting hook, and the portion of the wire between said apertures forming a two-point suspension means.

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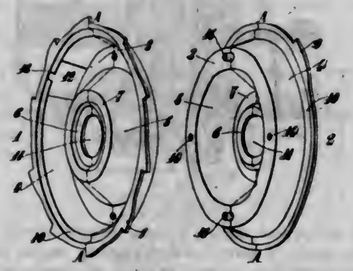
**1,695,662. COMBINATION TOOL.** EDGAR G. MORIN, Jr., San Francisco, Calif. Filed Feb. 12, 1927. Serial No. 167,794. 1 Claim. (Cl. 83—91.)



In a combination tool, a frame, a member having slots therein and being fixedly secured to said frame, an adjustable member slidable in said frame and having a slideway formed therein, a block disposed in said slideway, adjustable blades having their ends pivoted on said block, said adjustable member having arcuate slots formed therein, and pins secured to said blades and extending into said slots in both the fixedly secured and the adjustable members.

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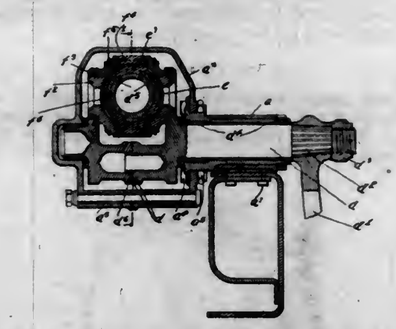
**1,695,663. REGISTER WHEEL.** CHARLES HILAIRE HENRI RODANET, Versailles, France, assignor to Societe Anonyme Etablissements Ed. Jaeger, Paris, France, a Company of France. Filed July 21, 1927, Serial No. 207,555, and in France July 30, 1926. 2 Claims. (Cl. 235—1.)



1. Register wheel comprising two pressed discs forming the side members, and a rim formed by a metal band the ends of which hook on the said side members characterized in that each disc is in the shape of a bowl having a flat bottom and a projecting central portion; the flat bottom of each disc fitting against the corresponding flat bottom of the other disc, while the plane face of central portion constitutes a driving friction surface, the ledges of the bowls respectively carrying ratchet teeth and a single tooth for carrying operations.



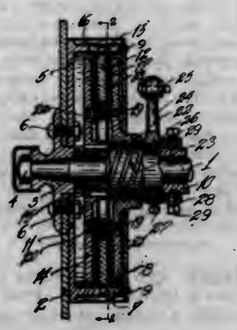
**1,695,664. STEERING MECHANISM FOR MECHANICALLY-DRIVEN ROAD VEHICLES.** FREDERICK HENRY ROYCE, West Wittering, near Chichester, England, assignor to Rolls-Royce Limited, Derby, England. Filed July 2, 1926, Serial No. 120,158, and in Great Britain July 10, 1925. 13 Claims. (Cl. 74—79.)



1. Steering mechanism for motor vehicles including a support, a steering shaft journaled in said support and provided with screw threads, a nut engaging said screw threads, a rock shaft journaled in said support and adapted to be operatively connected to the vehicle wheels, and means in which said nut is mounted to rotate about mutually perpendicular axes concurrent with the axis of said nut and operably connecting said rock shaft to said nut.

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**1,695,665. BRAKE.** WALTER RUEPPEL and LORIS CONE, Princeton, Idaho, assignors, by mesne assignments, of one-sixth to Bennie M. Cone and one-sixth to Gifford A. Cone, Princeton, Idaho. Filed Nov. 17, 1926. Serial No. 148,866. 1 Claim. (Cl. 188—72.)



The combination with a drum having ribs and a friction ring having complementary notches, of an axle housing and a friction disk keyed thereon at one side of the ring, a disk located at the other side of the ring and laterally extending pins rigid therewith, said pins projecting into guide holes of the first disk and separating springs coiled about the pins between said disks, a threaded hub on one disk and a threaded sleeve within the hub mounted to turn on the housing, and a brake lever connected to said sleeve.

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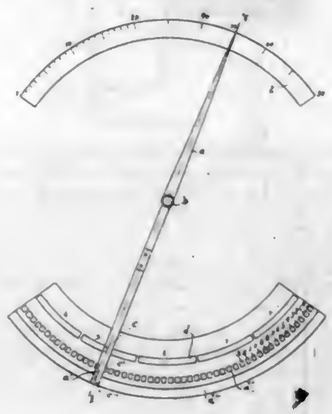
**1,695,666. PROCESS OF PRODUCING A NEW CATALYST.** KARL SCHIRMACHER and FRIEDRICH STOLZ, Hochst-on-the-Main, and HANS SCHLICHENMAIER and WALTER KROHS, Soden-on-the-Taunus, Germany, assignors to I. G. Farbenindustrie Aktien-Gesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed July 19, 1926, Serial No. 123,591, and in Germany July 22, 1925. 12 Claims. (Cl. 23—236.)

1. A process of making a highly active nickel catalyst which comprises subjecting to reduction a finely crystalline nickel compound associated with an inert substratum.

1,695,667. PROCESS FOR MAKING ELECTROLYTES. RICKARD SCHUSTER, Berlin-Halensee, Germany, Filed Nov. 13, 1923, Serial No. 674,578, and in Germany July 22, 1925. Renewed Aug. 8, 1928. 3 Claims. (Cl. 136—136.)

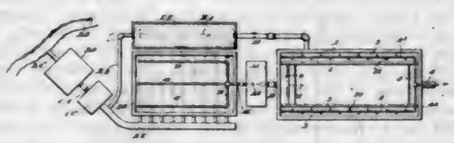
1. The process of making an electrolyte which comprises adding water and sulphuric acid and a silicate to a solution of bicromate of soda, and heating the same to evaporate enough water to produce a solid mass.

1,695,668. ELECTRICAL REGISTERING DEVICE. WILLIBALD SIEBERS, Amsterdam, Netherlands. Filed Sept. 7, 1926, Serial No. 134,090, and in Belgium Sept. 11, 1925. 2 Claims. (Cl. 234—1.)



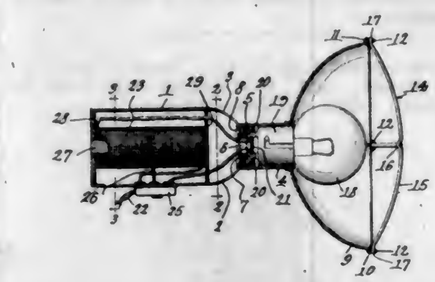
1. An electrical recorder of different positions of a movable body, comprising in combination, said movable body, a plurality of series of fixed contact studs communicating electrically with the recording apparatus, two or more conductor members carried by said movable body and moving at the distance of a spark gap from the respective series of fixed contact studs, one of the studs of each series of fixed contact studs being selectively brought into an energized circuit at a time determined by the position of the conductor members carried by said movable body.

1,695,669. SYSTEM AND APPARATUS FOR SEWAGE. GEORGE G. SMITH, Littleton, Colo. Filed Mar. 24, 1925. Serial No. 18,028. 4 Claims. (Cl. 210—5.)



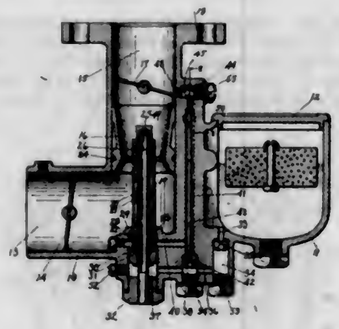
1. In a sewage disposal system, in combination, a main tank for the reception for the sewage, means therein for settling the scud of the sewage to the bottom of said tank, a filter tank containing a filter bed, connecting means between said tanks for passing the liquid sewage from the reception tank to the filter tank, said means including a spray device for distributing the liquid sewage substantially uniformly over the filter bed, and a scud tank connected to the main tank for periodically receiving the scud from said main tank.

1,695,670. AUTO REPAIR LIGHT. EDWARD P. TABOR, Worcester, Mass. Filed Sept. 26, 1925. Serial No. 58,853. 1 Claim. (Cl. 240—8.18.)



In a light of the class described, a tubular lamp holder, a partition in the holder, a handle comprising a tubular shell provided with a convexed spherical terminal having an elongated opening, the holder having an end wall mounted to slide upon the outer surface of the aforesaid spherical terminal, the said end wall being concaved, a terminal on the partition, a conductor extended through the neck and connected to the terminal, the aforesaid neck being mounted on the end wall of the holder and being movable in the opening, a concaved washer on the neck and in slidable engagement with the inner surface of the convexed terminal of the shell, the neck having a flange which retains and overlaps the washer, the partition being located in front of the neck and closing the neck as to the outer end of the holder.

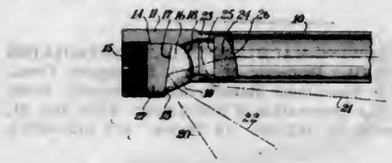
1,695,671. CARBURETOR. HARRY C. TILLOTSON, EARL A. RULLISON, and CHARLES W. MCKINLEY, Toledo, Ohio, assignors to The Tillotson Manufacturing Co., Toledo, Ohio, a Corporation of Ohio. Filed Mar. 31, 1922. Serial No. 548,271. 4 Claims. (Cl. 261—41.)



2. A carburetor having a main nozzle; a fuel supply for said nozzle; a main mixing chamber; means for throttling mixture flow to the engine; an auxiliary mixing passageway; a separate auxiliary liquid fuel delivery means from said fuel supply for said auxiliary mixing passageway; means for admitting air to said auxiliary liquid fuel; outlet means from said auxiliary passageway arranged to discharge into said mixing chamber when said throttle is in idling position; and additional outlet means from said auxiliary passageway, said latter means being substantially closed against intake therethrough, by said throttling means in said idling position, but opened to discharge from said auxiliary passageway when said throttle is opened from said idling position.

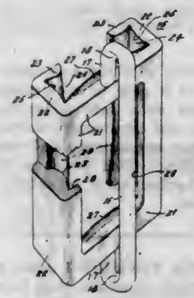


1,695,672. REARWARD-VISION SURGICAL TELESCOPE. REINHOLD H. WAPPLER, Yonkers, N. Y., assignor to American Cystoscope Makers, Inc., Long Island City, N. Y., a Corporation of New York. Filed July 22, 1927. Serial No. 207,608. 11 Claims. (Cl. 128—5.)



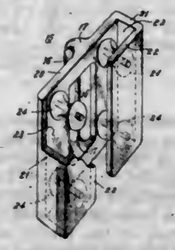
1. In a surgical telescope, a tube having a front enlarged end, said end having an opening in its exposed rear surface, and an objective system which comprises (1) a substantially hemispherical lens having a portion in said opening and being arranged and constructed to command a rearward field of vision and to direct the light rays by internal reflection obliquely rearwardly into the tube, and (2) auxiliary optical means back of said lens for receiving said rays and directing them longitudinally through the tube.

1,695,673. TRAVELING SAIL-SECURING DEVICE. PRESCOTT C. WILSON, Brooklyn, N. Y. Filed Feb. 10, 1927. Serial No. 167,346. 14 Claims. (Cl. 114—112.)



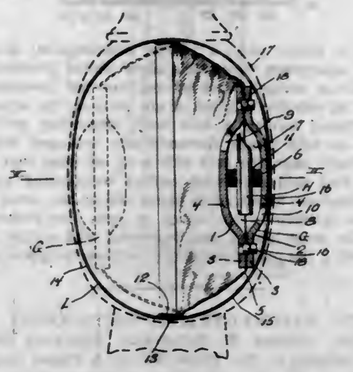
1. A traveler slide for securing devices having a plurality of angularly disposed faces, each provided with one or more dome-like projections providing point contact surfaces.

1,695,674. TRAVELER SLIDE FOR SAIL ATTACHMENTS. PRESCOTT C. WILSON, Brooklyn, N. Y. Filed May 24, 1927. Serial No. 193,775. 11 Claims. (Cl. 114—112.)



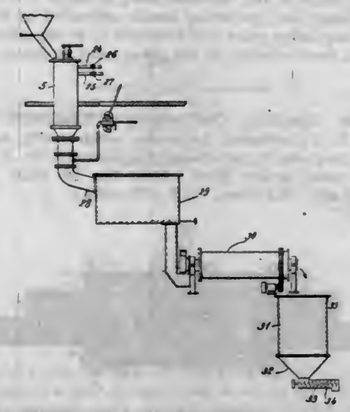
1. In a device of the character described, in combination, an elongated guideway mounted upon a mast, or the like, a runner adapted to be attached to a sail, and means for attaching said runner to said guideway for movement therealong in opposite directions, said attaching means including a pair of rollers mounted at each side of said runner and engaging said guideway at laterally spaced parts thereof, said rollers having wide open channels for receiving said guideways and permitting limited torsional or twisting movement of the runner relatively to the guideway so as to reduce binding and friction.

1,695,675. CRIER. JOHN H. WILHELM, Long Island, N. Y., assignor to Markon Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed July 3, 1926. Serial No. 120,341. 5 Claims. (Cl. 46—46.)



1. A doll comprising a body member consisting of a hollow shell, a gravity movable weight within said shell, a bellows cloth connected directly with said shell and weight to support the weight and to permit free movement of the weight within the shell to thereby displace air, the weight being hollow and having openings by which the displaced air may flow therethrough, and a reed mounted within the hollow of the weight arranged to be operated by the displaced air.

1,695,676. RECOVERY OF RUBBER. WILLIAM HENRY YEANDLE, Torreon, Mexico, assignor to Intercontinental Rubber Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 13, 1927. Serial No. 239,806. 10 Claims. (Cl. 18—50.)



10. The method of recovering rubber from plants in which the rubber is enclosed within the plant cells, which

comprises permeating the plant material with steam, increasing the gaseous pressure to which the material is subjected, releasing the pressure substantially instantaneously to disintegrate the material and disrupt the cells and separating the rubber thus released from the plant material.

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1,695,677. VANITY CASE. EDMUND R. BARANY, Brooklyn, N. Y. Filed Sept. 28, 1926. Serial No. 138,153. 4 Claims. (Cl. 132—83.)



1. In a vanity case, a powder compartment having a pair of superposed depressible cover plates provided with perforations normally out of registry but movable into registry by relative rotation of one plate on the other, said compartment having a side wall, depending peripheral flanges on said plates concentrically arranged with the outer flange engaging said side wall, at least one of the flanges and said side wall having cooperating pin and slot formations arranged to cause one of the cover plates to move relative to the other to open the perforations when the cover plates are depressed, and spring means for pressing the plates outwardly to close the perforations.

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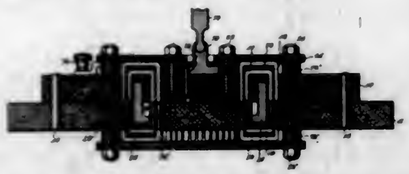
1,695,678. RAILWAY-TRAFFIC-CONTROLLING APPARATUS. GEORGE W. BAUGHMAN, Edgewood Borough, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 29, 1926, Serial No. 125,675. Renewed May 15, 1928. 24 Claims. (Cl. 246—63.)



4. Railway traffic controlling apparatus comprising a stretch of railway track, means for supplying the rails of the stretch with alternating current interrupted at different frequencies, a train carried relay controlled by current received from the trackway, a transformer having its primary controlled by the relay, a frequency selective relay and another relay in circuit with the transformer secondary, the frequency responsive relay having a plurality of contacts and the other relay having a front and a back contact, and governing means controlled by the frequency responsive relay and arranged to be energized only when the front contact of the other relay is closed.

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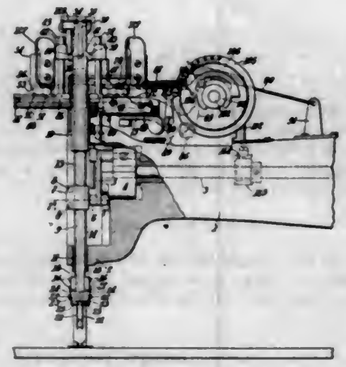
1,695,679. TESTING COIL. MAX E. BEALOWITZ, Belleville, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y., a Corporation of New York. Filed Jan. 26, 1926. Serial No. 83,888. 6 Claims. (Cl. 175—183.)



4. In a magnetic testing device two supporting frames of insulating material, inner and outer sets of substantially U-shaped conductors carried by each frame, means for electrically connecting the legs of each set of inner and outer U-shaped conductors to the legs of another set of inner and outer U-shaped conductors respectively, the conductors of each set being angularly disposed with respect to the conductors of the other corresponding set to form a helix when the two sets are connected, and a conductor adapted to connect said inner and outer sets.

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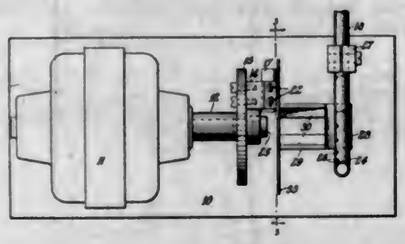
1,695,680. SEWING-MACHINE NEEDLE-CONTROLLING MECHANISM. FREDERIC M. CARD, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed Jan. 21, 1927. Serial No. 162,609. 13 Claims. (Cl. 112—221.)



1. The combination with the actuating mechanism of a sewing machine, of a pair of reciprocatory needles disconnectibly coupled with said actuating mechanism, a member operable in one direction to uncouple either needle from said actuating mechanism, and means for at will selectively determining which needle is disconnected from its actuating mechanism upon actuation of said member in said one direction.

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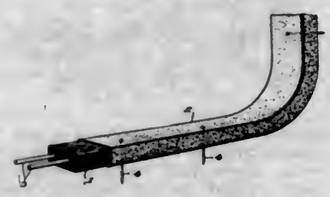
1,695,681. BOBBIN TRIMMING AND CLEANING MACHINE. SECONDO L. CASELLA, New York, N. Y., assignor to Yale Electric Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 6, 1927. Serial No. 211,106. 8 Claims. (Cl. 82—20.)



1. A battery bobbin trimming machine including a rotary cutter adapted to engage a corner of a bobbin and remove a portion of the depolarizing material from the bobbin in that vicinity, a support for supporting the bobbin as it is presented to said cutter, and fluid pressure means for removing loose particles of depolarizing material from the surface of the bobbin, said fluid pressure means including an annular perforated tube through which the bobbins are passed as they are presented to said cutter and through which the bobbins are withdrawn as they are retracted from said cutter.



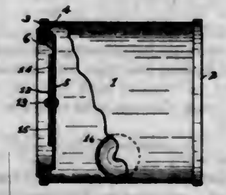
1,695,682. WINDOW MOLDING FOR AUTOMOBILES. EDGAR R. CREAMER, Connersville, Ind., assignor to The George R. Carter Company, Connersville, Ind., a Corporation of Indiana. Filed Mar. 24, 1927. Serial No. 177,874. 1 Claim. (Cl. 155—184.)



As a new article of manufacture, a finishing molding strip, the same consisting of a thick compact filler strip formed from paper, having a substantial amount of stretch, formed into a plurality of narrow folds, a plurality of independent metal members imbedded within the folds of papers and extending longitudinally through said strip, the said metal members having independent movement, one of the other, and independent of the paper strip whenever said strip is bent into an abnormal position.

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1,695,683. MECHANICAL GAME TOY. JOHN W. CULP, Johnstown, Pa. Filed Mar. 17, 1927. Serial No. 176,033. 2 Claims. (Cl. 273—143.)

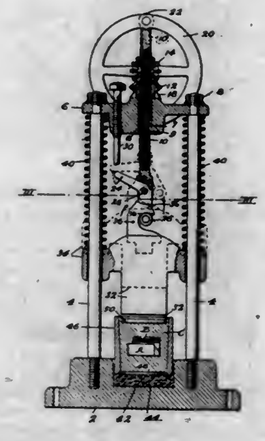


1. In combination, a mechanical toy of the character described comprising a hollow cylindrical body portion provided with a fixed rear end plate, an inset cover plate detachably secured to the front end of said body portion, the front face of said cover plate provided with a dial divided into equal areas, each of said areas having a designating indicia, an indicator member pivotally connected to said cover plate at the diametric center of the latter, said indicator disposed flatly against the outer side of said cover plate, and embodying means for maintaining the same perpendicularly suspended by gravity, and a spherical weight member loosely disposed in said body portion.

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1,695,684. SWAGING MACHINE FOR ARTIFICIAL DENTURES. LESLIE E. EATON, Kansas City, Mo., assignor of one-half to Cedric E. Griffin, Kansas City, Mo. Filed Feb. 7, 1925. Serial No. 7,583. 7 Claims. (Cl. 78—25.)

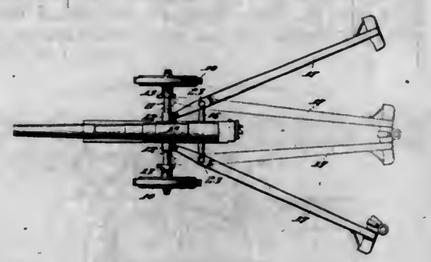
1. A machine of the character described consisting of a base adapted to support articles, guides extending upwardly from said base, a yoke uniting the upper ends of said guides, a screw free to move vertically but held from rotary movement in said yoke, rotary mechanism for moving said screw up and down, a ram operably mounted on the guides, means connected to the screw for raising



said ram and means for disengaging said raising means from the ram so that the same may descend and deliver a blow to an article on the base of the machine.

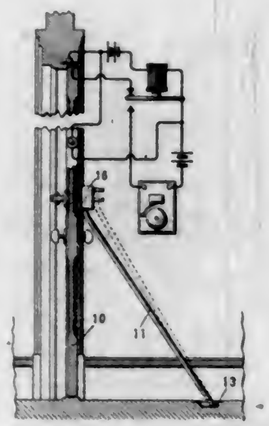
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1,695,685. GUN CARRIAGE. CLARENCE HERVY FROELICH, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa. Filed Aug. 8, 1925. Serial No. 49,049. 15 Claims. (Cl. 89—40.)



5. In a wheeled gun carriage having an axle, the combination of a pair of anchoring members slidably mounted on the carriage axle, a cross member jointed to each of said members, and a base member supported on the axle and on said cross member.

**1,695,686. DOOR SECURER.** SIMON B. HESS, New York, N. Y. Original application filed Sept. 7, 1922, Serial No. 586,573. Divided and this application filed Apr. 2, 1926. Serial No. 99,202. 5 Claims. (Cl. 292—338.)



1. In apparatus of the character disclosed, securing means operatively connected to a door, lock-controlled means for moving said securing means to protective position, said securing means being arranged to allow a limited opening of the closure before becoming operative.

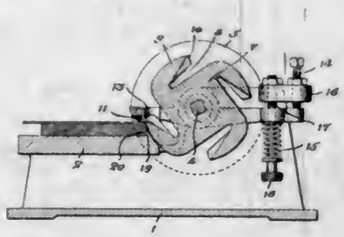
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**1,695,687. FILAMENT.** FREDERICK HOLBORN, Hackensack, N. J., assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J., a Corporation of Delaware. Filed Jan. 9, 1924. Serial No. 685,182. 1 Claim. (Cl. 250—27.5.)

A cathode comprising a combination of iron and lithium.

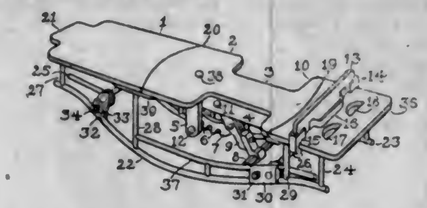
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**1,695,688. TRIMMING MACHINE.** PENROSE R. HOOPES, Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 30, 1923. Serial No. 660,075. 7 Claims. (Cl. 164—63.)



1. A trimming device, comprising, a rotary cutter, and a cooperating cutting edge mounted for rotary adjustment on an axis concentric with the axis of rotation of said cutter; a platform, and means to urge said cutting edge toward said platform.

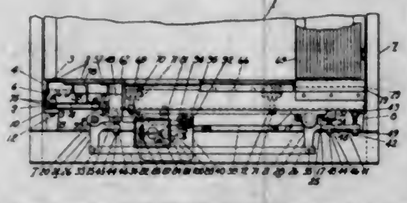
**1,695,689. SPORT RIDER.** HENRY N. HULANDER, Brooklyn, N. Y. Filed Mar. 17, 1926. Serial No. 95,442. 9 Claims. (Cl. 272—57.)



4. A gymnastic apparatus comprising a pair of curved runners surmounted by a seat board having a relatively narrow section intermediate the extremities thereof, a pendant pedal support movably mounted beneath said narrow section, a pair of pedals on said support, a toothed member pivoted to said support and a cross bar adapted to be engaged by said toothed member in different positions.

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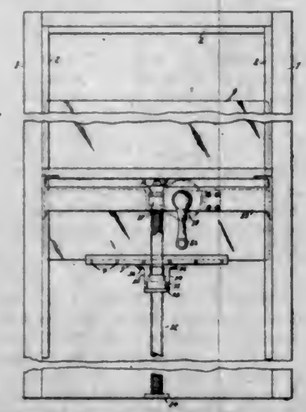
**1,695,690. ELEVATOR PLATFORM.** FREDERICK HYMANS, Yonkers, N. Y., and CARL T. WESTLIN, Westfield, N. J., assignors to Otis Elevator Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 22, 1927. Serial No. 185,794. 15 Claims. (Cl. 187—29.)



9. A platform for an elevator car comprising, a movable floor, a frame, self-aligning bearings carried by said frame, a shaft mounted in said bearings, and levers secured to said shaft and acting to support said movable floor, said floor, when moving, acting through said levers to turn said shaft in said bearings.

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**1,695,691. WINDOW OPENER.** WALDO L. KRAEMER, Brooklyn, N. Y., assignor to Kearfott Engineering Company, Inc., a Corporation of New York. Filed Dec. 23, 1926. Serial No. 156,641. 2 Claims. (Cl. 268—133.)



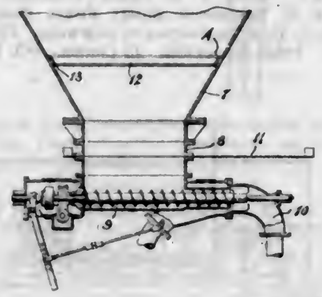
1. In a window opener, holding means adapted to receive the lower edge of the window pane, a travelling nut,



means for loosely connecting said nut with said holding means for operating the same in both upward and downward directions, a screw shaft for traversing said nut, a bearing for supporting the upper end of said shaft and sustaining the thrust thereof in both directions, a support rigid with said bearing, and means extending through said support and supported thereby for operating said shaft.

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**1,695,692. PULVERIZED-FUEL-FEEDING APPARATUS.** HENRY KREISINGER, Piermont, N. Y., assignor to International Combustion Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 12, 1925. Serial No. 55,906. 5 Claims. (Cl. 221—118.)



1. In coal handling apparatus, a gravity discharge bin or reservoir for pulverized coal, feeder mechanism therefor, and a grid in the bin above the feeder mechanism, said grid comprising a plurality of stationary spaced bars.

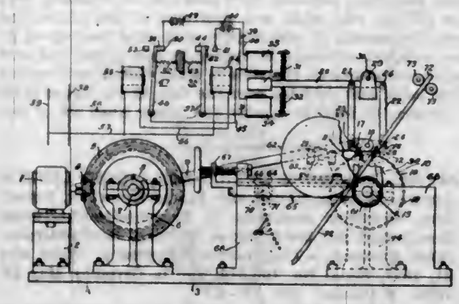
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**1,695,693. COMPOSITION OF MATTER.** HENRY R. LADISLAUS, Los Angeles, Calif. Filed July 8, 1924. Serial No. 724,897. 1 Claim. (Cl. 87—5.)

A cleaning composition consisting of hydrochloric acid, glycerine, pulverized antimony, oil of mirbane, vinegar, and machine oil.

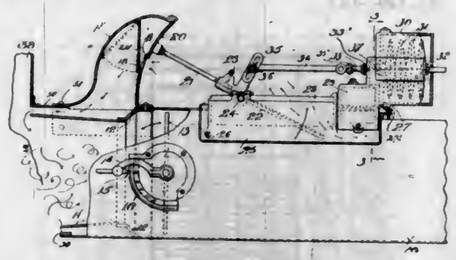
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**1,695,694. AUTOMATIC ELECTRIC WELDING APPARATUS.** ALLIS M. MACFARLAND, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 28, 1924. Serial No. 716,290. Renewed Nov. 3, 1928. 21 Claims. (Cl. 219—8.)



1. In an arc welding system including a fusible metal electrode, means for feeding the same to the work comprising a substantially constant speed motor device, a mechanism including a reciprocating element actuated by said device operatively connected to said electrode and means responsive to conditions in the arc for controlling the movement of the mechanism and electrode.

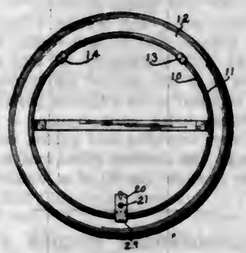
**1,695,695. FUEL ECONOMIZER.** GEORGE W. MEYERS, Rahway, N. J. Filed Jan. 3, 1922. Serial No. 526,724. 5 Claims. (Cl. 236—95.)



1. In an automatically controlled combustion mechanism having a combustion chamber, a member for conducting products of combustion from said chamber, means for conducting air over said member and into said chamber, said member and means being provided with a plurality of openings, independently controlled shutters for said openings, and means for operating said shutters in response to temperature changes.

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**1,695,696. PADLOCK FOR TIRE CARRIERS AND THE LIKE.** HARRY B. PAGE, East Haven, Conn., assignor to Sargent & Company, New Haven, Conn. Filed Feb. 11, 1924. Serial No. 692,005. 3 Claims. (Cl. 70—90.)



1. In a tire lock, a case, a pair of cooperating members, one of said members consisting of a straight headless post permanently secured to the case and the other of said members comprising a headed bolt completely detachable from the lock body but adapted to be locked thereto in spaced parallel relation with said first member and on the same side of the case.

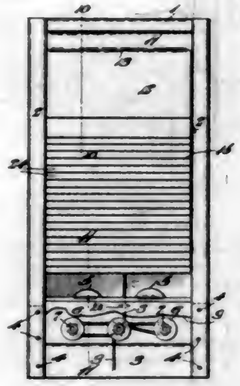
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**1,695,697. STITCH-DOWN WELTLESS SHOE.** EDWARD J. RAMSEY, New York, N. Y. Filed Feb. 18, 1927. Serial No. 169,155. 5 Claims. (Cl. 36—16.)



1. A stitch-down weltless shoe having structural elements including an outsole, an insole and an upper outturned to have marginal portions overlying edge portions of the two soles, said shoe also including a structural element located between the upper and the insole, and a plurality of lines of stitches each going through a plurality of said elements, two of said stitches going through said marginal portions and the two soles.

1,695,698. VISIBLE INDEX-CARD SYSTEM. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to Globe-Wernicke Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 11, 1924. Serial No. 691,895. 26 Claims. (Cl. 129—16.)



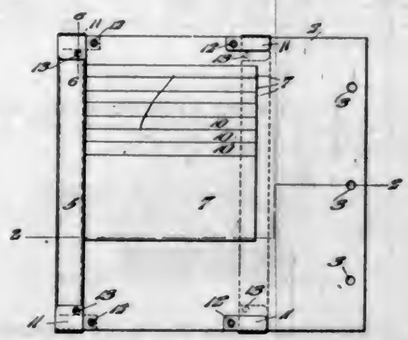
6. An index card having near one of its marginal edges a weakened line and a slit, substantially in alignment with said line, said slit forming a friction lip.

14. A plurality of card-holders arranged one above the other and having upwardly and forwardly projecting tongues, with the tongues of each card holder overhanging the tongues of the card holder above it.

18. In a visible index card syatem, a flat frame, a follower to move with respect to said frame, a cord secured to said follower, and a plurality of cord-engaging discs fixedly mounted near one end of the frame to cause the follower to be retained in its adjusted position.

19. In a visible index card system, a frame having guides, card-holders engaging said guides, cards carried by said card-holders and having slits, and a stop member having a tongue to enter the slit of a juxtaposed card.

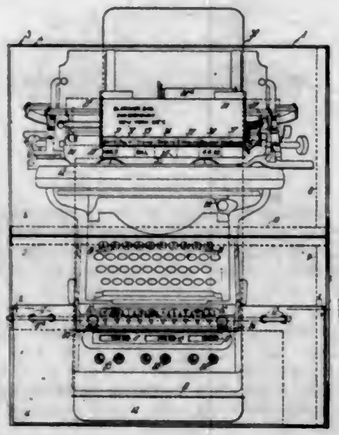
1,695,699. RECORD-SHEET HOLDER AND SHEETS THEREFOR. WILLIAM A. RINGLER, Philadelphia, Pa., assignor to The Globe-Wernicke Co., a Corporation of Ohio. Filed May 12, 1924. Serial No. 712,602. 13 Claims. (Cl. 129—34.)



1. A plurality of record sheets, each consisting of a sheet of material having at one end a fold extending transversely of the sheet, and a securing clip for each sheet to retain its fold against the juxtaposed portion of its sheet and to determine the amount of visibility of its sheet whereby when the sheets are assembled by nesting their folds one within the other the top edge of the fold of one sheet will have its relative lateral adjustment with the sheet above it limited in one direction by the clip of said sheet above it and thus determine the visibility of the sheet above it.

7. A holding device for record sheets including a holder sheet having each of two of its opposite margins folded over the sheet in opposite directions to form a holding flap on each of its opposite sides and having the free margin of each of said holding flaps folded under to form a locking flap of less width than the holding flap.

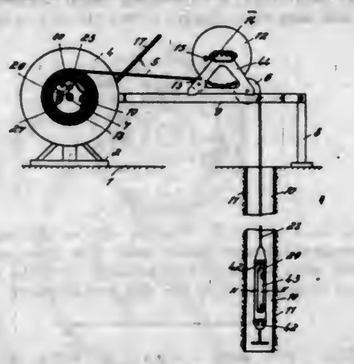
1,695,700. ACCOUNTING-MACHINE DEMONSTRATION CHART. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 20, 1925. Serial No. 44,682. 13 Claims. (Cl. 35—12.)



1. A demonstrating device for a bookkeeping machine including a frame having an upper layer and a second layer, said layers fastened together along one edge by a flexible fabric, to permit the second layer to fold under the upper layer, and a slide arranged between said layers, said upper layer having on its face a picture of said machine and being provided with elements for engaging with and guiding said slide, and apertures at the platen and register-elements of said picture, said slide bearing on its face numerals arranged to appear in said platen and said register-apertures as the slide is manipulated, said second layer being also foldable over the face of the upper layer to protect the same from wear and injury when out of use.

1,695,701. SOUNDING DEVICE FOR LIQUID LEVELS. LUDWIG STEINER, Berlin, and VICTOR GUTMANN, Nuremberg, Germany, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany, a Corporation of Germany. Filed May 31, 1927, Serial No. 195,514, and in Germany May 17, 1926. 8 Claims. (Cl. 73—5.)

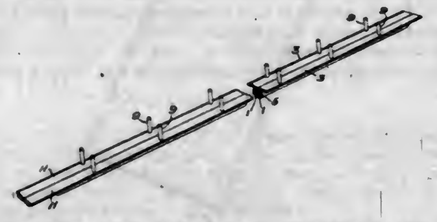
1. A sounding device for liquid levels, comprising in combination, a cable, a sounding weight attached to said cable, a member movably mounted on said sounding weight and adapted to be moved by the pressure of the liquid from a normal position into a deflected position, means for paying out said cable from a place above the level of the liquid, means for indicating the paid out length of said cable, an electric circuit containing a source of current, a switch connected with said movable member in such a manner that a switching operation takes place when said movable member is moved from one of its said positions



into the other, and a current indicating device, said parts of the circuit being connected together by the conductor or conductors of said cable.

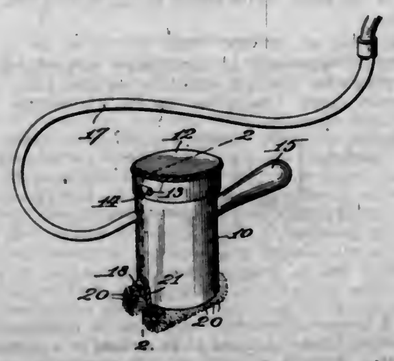


1,695,702. SHOE STICK. CLARENCE H. YOUNG, Boston, Mass. Filed Jan. 10, 1928. Serial No. 245,715. 6 Claims. (Cl. 211—34.)



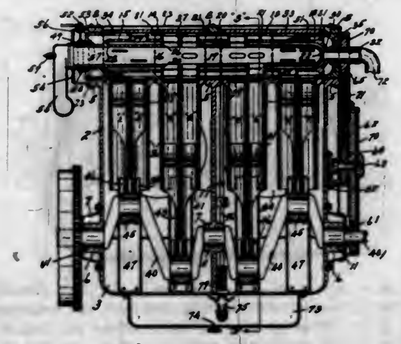
1. A shoe stick having, in combination, a pair of angle-irons secured to each other to present webs in substantially the same plane, the remaining webs at the end portions thereof being folded into parallelism with the end portions of the first mentioned webs, and means carried by said angle-irons for attaching lasts thereto.

1,695,703. DISHWASHING DEVICE. ALBERT M. AHERN, Santa Monica, Calif. Filed July 6, 1927. Serial No. 203,742. 4 Claims. (Cl. 15—129.)



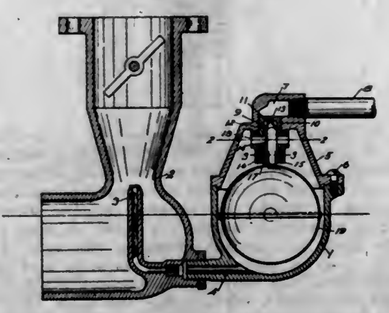
1. In a dish washing device, a container provided with a perforated bottom, a rod secured to and passing through the lower portion of the body of said container, the ends of which rod project outwardly from the body of the container and a brush carrying frame positioned beneath the bottom of the container with its end detachably mounted on the projecting ends of the said rod.

1,695,704. INTERNAL-COMBUSTION ENGINE. RAYMOND ARCHER, Redmond, Oreg. Filed Apr. 23, 1926. Serial No. 104,014. 5 Claims. (Cl. 123—42.)



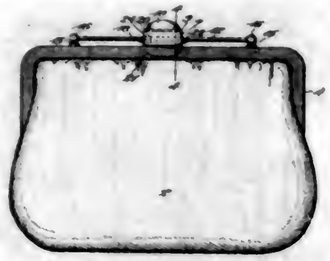
1. In an internal combustion engine as described, the combination with the cylinders of said engines, a rotary valve provided with intake and exhaust ports arranged in such a manner as to charge the combustion cylinders of the engine with combustible material once in every four revolutions of the crank shaft, and means for communicating said valve with said cylinders, of a stationary terminal connected with a magneto or battery and mounted on said engine; an insulated terminal ring of insulation material mounted on said rotary valve; and spark plugs mounted on said rotary valve; said ring being connected with said spark plugs in said rotary valve and adapted for engagement with the stationary terminal for firing said combustible material in said cylinders.

1,695,705. CONSTANT-LEVEL DEVICE. FREDERICK O. BALL and THOMAS M. BALL, Detroit, Mich., assignors to Ball & Ball Carburetor Company, a Partnership composed of Frederick O. Ball and Cornelia M. Ball, Detroit, Mich. Filed May 10, 1926. Serial No. 108,197. 1 Claim. (Cl. 137—104.)



In a constant level device, the combination of a float chamber; a cover for the chamber; a valve controlling the inflow to the chamber, said valve being mounted in and removable with the cover; and a spherical float guided by the chamber walls and controlling the valve by direct contact of the walls of the float with the valve, the float being free to move to vary the point of contact, the cover being cup-shaped and the part between the cover and the chamber being below the top of the float.

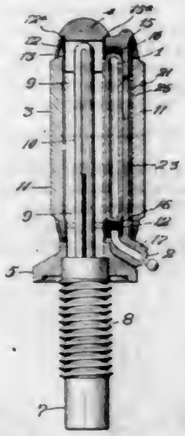
1,695,706. FASTENER FOR BAG FRAMES. BENJAMIN BLACHER, Providence, R. I., assignor to Blacher Brothers, a Partnership composed of Benjamin Blacher and Harry Blacher, Providence, R. I. Filed July 9, 1927. Serial No. 204,605. 6 Claims. (Cl. 292—147.)



1. In a clasp or fastening-device for bag frames or the like having opposite mating members, the combination of a guide extending longitudinally above the top of one member, a lug projecting vertically from the top of the other member, and a slide slidable on the guide and formed with a slot for engaging the opposite sides of the lug to secure the two members in closed relation.

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1,695,707. ILLUMINATING MEANS FOR MOTOR-HEAT INDICATORS. HARRISON H. BOYCE, Jericho, N. Y. Filed Sept. 27, 1923. Serial No. 665,254. 4 Claims. (Cl. 240—8.28.)



1. In combination, an instrument for indicating the heat of a vehicle motor, said instrument comprising a temperature indicator, a ring shaped casing enclosing said indicator, and an attachment including an elongated tube containing a rarefied gas adapted to glow when subjected to spark plug potential, a block, an open groove in the block for partially enclosing said tube, a rear crystal, a name plate interposed between said crystal and said block, and means passing through the block at a plurality of points for securing the block, the name plate and the crystal all to the rear wall of said casing.

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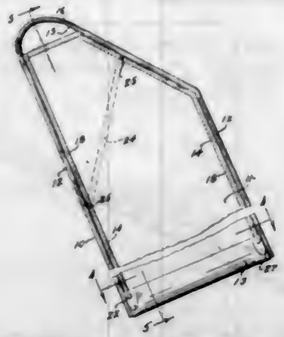
1,695,708. CONTACT DEVICE FOR MAGNETOS. ETTORE BUGATTI, Molsheim, France. Filed Jan. 8, 1925, Serial No. 1,259, and in France Jan. 19, 1924. 1 Claim. (Cl. 200—30.)

A make-and-break device for magnetos comprising a main supporting frame, a stationary contact which is slidable without rotation in a slot in the said frame, a two-arm swinging lever whose fulcrum has a cylindrical shape and is engaged in a recess of like shape which is formed in the said main frame, a movable contact disposed at the end of said lever, a cylindrical recess formed in said lever and adapted to receive a fibre cylinder, a spring urging the other arm of the lever, in such manner as to bring the two contacts into contact with each other, and a cam provided with bosses and cooperating with the said fibre cylinder in order to raise the said swinging lever.



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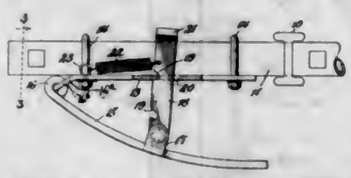
1,695,709. ICE RUG. FRANK H. FIELD, Jamestown, N. Y. Filed Sept. 26, 1927. Serial No. 221,905. 4 Claims. (Cl. 2—2.)



1. An ice rug comprising a body portion, rails formed from a flexible material enclosed within the seams of said body portion, the upper end of said rail forming a loop by which to grasp said rug and a trough formed along the lower edge of said rug, said trough being formed by doubling back upon itself the lower end of said body portion and a metal strip formed to engage said trough and having means by which to seal the vertical edges of said body portion and said metal strip whereby said trough may receive and retain water caused by the melting of a cake of ice.

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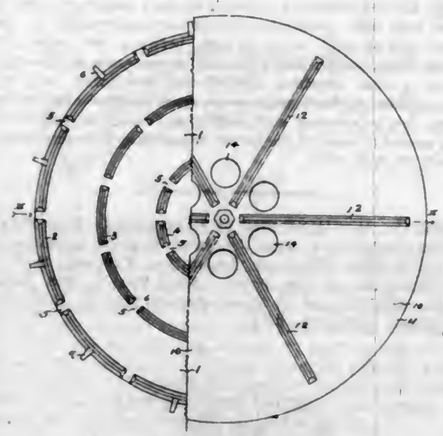
1,695,710. RUNNER ATTACHMENT FOR FARM IMPLEMENTS. HENRY C. GEORGIUS, Manning, Iowa. Filed June 3, 1927. Serial No. 196,358. 3 Claims. (Cl. 55—3.)



1. A harrow attachment comprising, in combination, a supporting bracket adapted to be secured to a tooth-bar; a runner pivotally mounted on said supporting member and arranged to open in a plane substantially at right angles to the plane of the harrow teeth; a notched latch bar pivoted to the runner and extending through an opening provided in said bracket; the extension presenting a handle to release the notched portions from engagement with the bracket; and a spring connected to the bar normally to hold it in latched engagement.



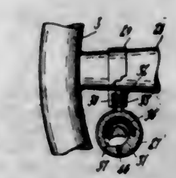
1,695,711. HOT PLATE. THOMAS JARBOE, San Francisco, Calif. Filed May 11, 1927. Serial No. 190,424. 3 Claims. (Cl. 126—215.)



1. A hot plate comprising a regenerative plate having a flat under surface; peripheral lugs extending beyond the edge of said plate; concentric segmental flanges extending above the top of said plate; a cover having openings in its center portion and a depending flange engaging said lugs.

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1,695,712. TRAFFIC SIGNAL. CHESTER W. JOHNSON, Allston, Mass., assignor, by mesne assignments, to The A. L. Smith Iron Works, Chelsea, Mass., a Corporation of Massachusetts. Filed Nov. 23, 1926. Serial No. 150,243. 13 Claims. (Cl. 177—339.)

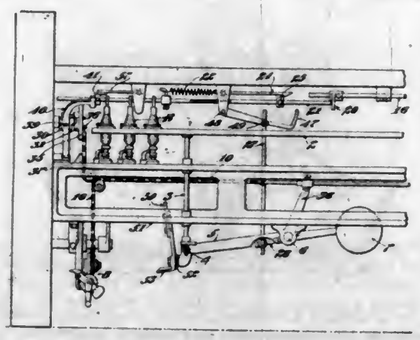


13. In an automobile signal system, the combination with the steering wheel shaft of the automobile having its axis in a position other than vertical, and an electric signal mounted on the automobile, of a circuit closer in electrical connection with said signal and a source of current, means mounting said circuit closer for movement with the steering wheel shaft in a plane substantially at right angles to the axis of said shaft, said circuit closer including a bent conductor, a movable gravity operated connector element normally out of contact therewith, and means for causing a gravity impelled movement of said connector element in a progressively curved path in contact with said conductor on movement of said shaft in one direction from normal and out of contact with said conductor on the movement of the shaft in the opposite direction.

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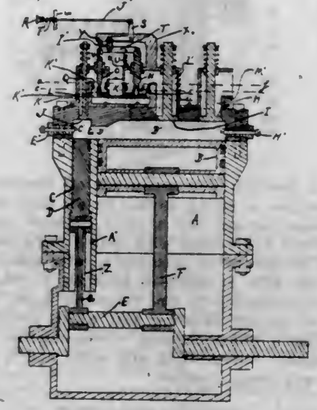
1,695,713. WIND-DOWN MECHANISM FOR SPINNING FRAMES. JOSEPH H. LALIBERTE, Nashua, N. H., assignor to Nashua Manufacturing Company, Boston, Mass., a Corporation of New Hampshire. Filed Nov. 13, 1925. Serial No. 68,898. 5 Claims. (Cl. 118—5.)

2. In a ring spinning machine, a mechanism for automatically winding down the ring rail comprising a part normally idle but mounted for rotary motion about an axis, a flexible connection between said part and the ring rail whereby the motion of said part may be utilized to lower said ring rail, a driven member rotatable about said axis, said member and part having cooperating clutch faces to engage each other, and mechanism operative automatically when the ring rail reaches a predetermined elevation to cause said clutch faces to engage each other.



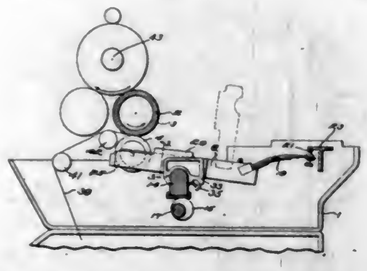
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1,695,714. CONSTANT-VOLUME AND CONSTANT-COMPRESSION ENGINE AND METHOD OF OPERATING SAME. JAMES HARRY KEIGHLEY MCCOLLUM, Long Branch, N. J., assignor of one-half to Bartley J. Wright, Long Branch, N. J., and one-fourth to Albert J. Baruth, Lawrence, N. Y. Filed Jan. 19, 1922, Serial No. 530,410. Renewed May 16, 1928. 16 Claims. (Cl. 123—53.)



1. An internal combustion engine of the compression type having in combination a main cylinder and piston reciprocating therein, an ignition chamber separate from, but having a substantially unrestricted connection with, said main cylinder, means for admitting charges of air at substantially atmospheric pressure simultaneously to both said main cylinder and said chamber during each cycle of operation of the engine, mechanism separate from, but operating synchronously with, the piston in said main cylinder for giving substantially the same degree of compression to the charge in said chamber as is given to that in said cylinder by the piston in the latter, apparatus for feeding graduated quantities of fuel to said chamber and an ignition device located in said chamber.

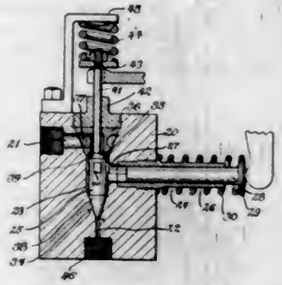
1,695,715. SLITTING MACHINE. FRANK W. MERRICK, Dorchester, Mass., assignor to American Stay Co., East Boston, Mass., a Corporation of Massachusetts. Filed Sept. 14, 1926. Serial No. 135,299. 14 Claims. (Cl. 164—60.)



1. In a slitting machine, a series of slitters, a platen member for cooperating with said slitters, holders for said slitters, and unitary separating means for a series of said slitters arranged to be inserted between said slitter holders and to be supported thereby after the latter have been assembled in the machine.

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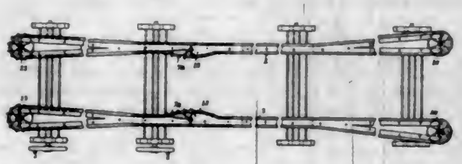
1,695,716. FUEL-OIL INJECTION PUMP. KRISTIAN RASMUSSEN, Buffalo, N. Y. Filed Aug. 31, 1927. Serial No. 216,619. 7 Claims. (Cl. 123—32.)



1. In a fuel injection pump for oil burning engines, in combination, a casing having an oil inlet passage, an oil discharge passage and a valve chamber intermediate said passages and formed with spaced seats communicating with the respective passages, a valve element in said chamber movable to different positions in which it has closing cooperation with the respective seats, said valve element having an operating part which projects beyond said casing, a pump chamber communicating with said valve chamber intermediate said seats and a pump element in said pump chamber.

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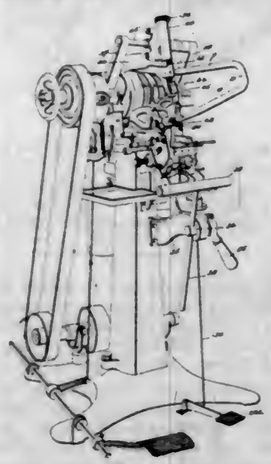
1,695,717. TENTERING MACHINE. EDMOND H. REYNIER, Passaic, N. J. Filed June 11, 1928. Serial No. 284,505. 2 Claims. (Cl. 26—57.)



1. A tentering machine comprising two side-by-side elongated structures having longitudinal spaced ways, tentering clips arranged to be guided by said ways and each adapted to undergo closing movement on each approach thereof to the corresponding way so as to hold the fabric while travelling along such way and to undergo fabric-releasing movement on each departure thereof from said way, means to control such movements of the clips one of said ways having, between the points at which said closing and releasing movements of the clips occur, a bend reaching toward the other way, and the clips guided by such ways being each adapted also to undergo fabric-releasing and closing movement at said bend, and means to control the latter releasing and closing movements of such clips.

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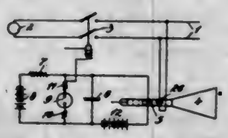
1,695,718. MACHINE FOR SEWING BAGS. FRED RICKS and ROBERT GOW. REID, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 8, 1923, Serial No. 617,702, and in Great Britain Mar. 2, 1922. 22 Claims. (Cl. 112—62.)



22. A machine for sewing bags or like articles having, in combination, stitch forming devices, means for externally supporting the work with both faces adjacent a corner at an inclination to and intersecting the needle path, an internal support past which the work is fed and means for retaining the support at the sewing point during the sewing of a straight edge while permitting it to shift to one side of the sewing point in the direction of feed as the seam approaches the end corner of the bag.

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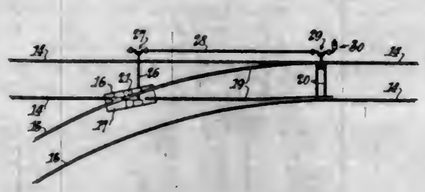
1,695,719. OSCILLOGRAPH. REINHOLD RÜDENBERG, Berlin-Grunewald, Germany, assignor to Siemens-schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany, a Corporation of Germany. Filed Dec. 1, 1925. Serial No. 72,609, and in Germany Dec. 20, 1924. 11 Claims. (Cl. 171—95.)



1. An oscillograph for observing transient phenomena having means for slowly advancing and quickly returning the light spot, means for releasing the transient phenomena and means for jointly controlling the light spot movement and said releasing means.



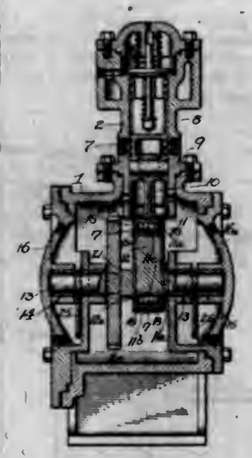
1,695,720. FROGLESS SWITCH. JOHN ASH SINGELLTON, Columbus, Ohio, assignor of one-fourth to Leland S. Dougan, Columbus, Ohio. Filed Feb. 17, 1928. Serial No. 255,100. 1 Claim. (Cl. 246—387.)



In railroad turnouts the combination with the intersecting rails and their extensions leading to switch points, of a pivoted rail section shiftable to align a selected intersecting rail with its extension, a longitudinal stop lug extending approximately the full length of the shiftable rail section and closely adjacent the said section at each side of its pivoted end and adapted to limit movement of the shiftable section at each rail extension aligning position, said lugs being reduced in height toward their ends adjacent the pivoted end of the shiftable rail section to permit free passage of wheel flanges thereover.

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1,695,721. COMPRESSOR. DAVID FRANKLIN SMITH, Washington, D. C. Filed Aug. 27, 1927. Serial No. 215,971. 5 Claims. (Cl. 230—206.)

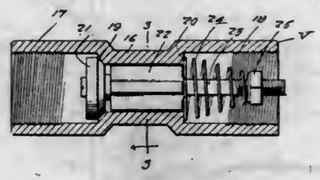


1. In combination in a compressor, a cylinder and piston, an eccentric drive for said piston, a shaft on which the eccentric drive is mounted, a casing enclosing said drive and having detachable heads having split bearings for said shaft, said heads having lubricant holding chambers, rings arranged in the split bearings and depending into the chambers, a pinion and gear connection for driving the shaft, a shaft carrying the pinion, a bearing for the said shaft integral with one of the heads, said bearing having a recess and a ring in said recess, and depending into the casing to lubricate the said bearing, substantially as described.

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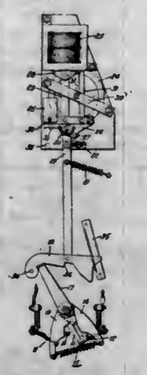
1,695,722. OIL-INJECTING APPARATUS FOR ASPHALT MIXERS. WALTER A. SMITH, Houston, Tex. Filed Nov. 29, 1927. Serial No. 236,435. 1 Claim. (Cl. 251—145.)

A valve structure of the class described including an elongated tubular casing having its bore reduced intermediate its ends to provide a pair of spaced shoulders, one of the shoulders forming a valve seat, a valve element closable against the seat and having a cruciform member connected thereto and slidable longitudinally in the reduced portion of the bore and terminating in a shank, a spring disposed about the shank abutting the other shoulder and means on the shank against which the spring impinges for normally holding the valve element closed.



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1,695,723. TIME-ELEMENT ELECTRORESPONSIVE DEVICE. GEORGE R. TOWNSEND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 14, 1925, Serial No. 56,102. Renewed May 4, 1928. 12 Claims. (Cl. 200—97.)

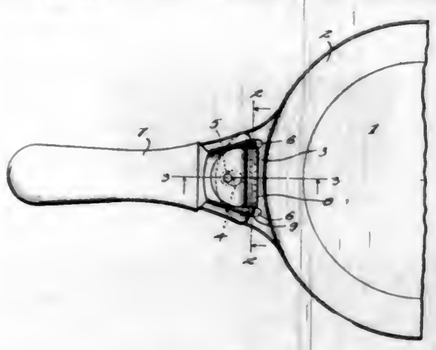


1. A time element electroresponsive device comprising a member movable in each of two directions, electroresponsive means for controlling the movement of the member, a movable inertia element, and connections between the inertia element and the member through which the inertia element resists both acceleration and deceleration of the member in one direction and permits unrestrained movement thereof in the other direction.

3. A time element electroresponsive device comprising a member movable between two positions, electroresponsive means for controlling the movement of the member, an inertia time delay element, and mechanism for automatically establishing a two-way driving connection between the member and the inertia element during movement of the member in one direction between said positions.

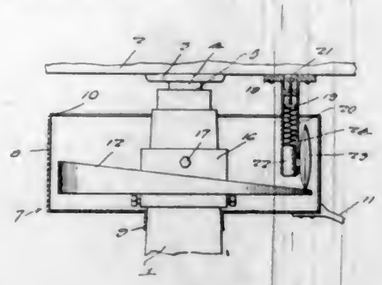
6. A time element electroresponsive device comprising an electromagnet, a member under the control of the electromagnet and operable to a predetermined position for effecting operation of the device responsive to a predetermined variation in the energization of the electromagnet, a movable inertia element, and mechanism controlled by the electromagnet for establishing a driving connection between the member and the inertia element to permit the inertia of the element to both retard the movement of the member to its operating position and supply energy to the member to operate the device.

1,695,724. FOLDING HANDLE FOR FRYING PANS AND THE LIKE. HARLEY H. TRENT, Bozeman, Mont. Filed Jan. 31, 1928. Serial No. 250,905. 7 Claims. (Cl. 53—7.)



4. In a cooking utensil, a handle, means providing a sliding and swinging connection between the handle and utensil, and means for latching the handle in operative position upon shifting the same transversely of the utensil.

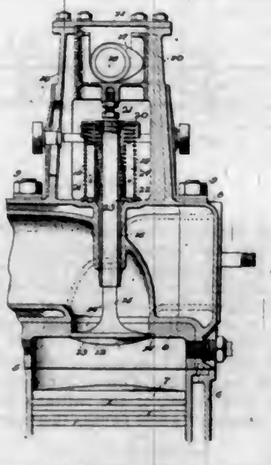
1,695,725. ROTARY CHAIR. OTTO L. WOLFE, San Francisco, Calif. Filed Apr. 30, 1926. Serial No. 105,772. 1 Claim. (Cl. 155—33.)



In a structure of the class described, in combination, a standard, a hollow form, a chair including a bottom, said bottom being provided on its under side with a bearing plate and a stub axle depending from the plate and slidably received in said standard, a beveled track ring surrounding the standard beneath the chair bottom and fastened to said standard, a casing also fastened to said standard and surrounding the track ring, spring pressed means carried by said chair bottom and engageable with the track and normally exerting an upward thrust upon the chair bottom to maintain said bearing in spaced relation to said standard, said casing being open at its top, and said means comprising a vertically disposed cylinder attached to the under side of the rotary chair bottom and disposed eccentrically with respect to the axis of rotation of said bottom, a plunger slidable in said cylinder, a spring in said cylinder cooperable with said plunger, and a roller carried by said plunger and rotatably contacting the upper side of said track ring.

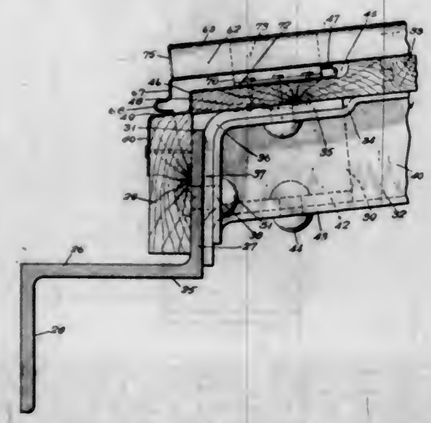
1,695,726. VALVE-OPERATING MECHANISM. LIONEL M. WOOLSON, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 17, 1926. Serial No. 109,769. 30 Claims. (Cl. 251—132.)

24. In a valve operating mechanism, means for opening the valve, a pair of spaced abutments mounted one on the valve stem and the other on a stationary part adjacent thereto, a plurality of inclined guide pins secured to one of said abutments and disposed about the valve stem ex-



teriorly of the same, and a plurality of valve rotating and closing springs interposed between said abutments and mounted on the inclined guide pins.

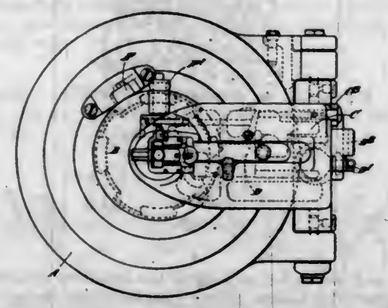
1,695,727. CAR ROOF. WILLIAM WRIGHT, Chicago, Ill., assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 18, 1924. Serial No. 744,301. 4 Claims. (Cl. 108—5.)



1. A car roof comprising, in combination, side plates, said side plates being connected by transversely extending carlines, a wooden inside roof secured to said carlines, the eaves edge of said inside roof being gained out longitudinally of the roof, a metallic flashing secured in the gained out portion, metallic roof sheets extending from ridge to eaves of the roof, one side of said roof sheets being flanged to provide an upwardly extending portion, said upwardly extending portion being rebent downwardly and inwardly over the sheet, an anchor having a base portion secured on the flashing in the gained out portion of the inside roof, the said base portion being in spaced relation to the general plane of the roof sheets, said anchor having a vertical transversely extending portion and having at its upper end a downwardly and outwardly extending hook engaging the side flange of the adjacent roof sheet, the other side of said sheets being flanged to provide an upwardly extending portion rebent at its upper end downwardly and outwardly away from the body of the sheet, said downwardly extending portion terminating in an inwardly and upwardly extending spaced hook, said last mentioned side flange fitting over the side flanging of the next adjacent sheet which is formed similar to the first mentioned side flange, the eaves edge of said roof sheets terminating in a depending flange.

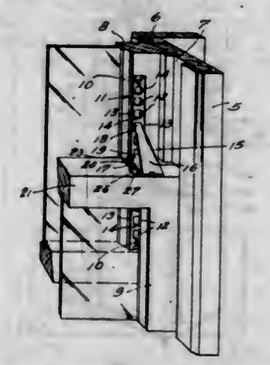


1,695,728. ORDNANCE BREECH MECHANISM. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C., a Corporation of Virginia. Filed Sept. 3, 1926, Serial No. 133,402, and in Great Britain Sept. 15, 1925. 7 Claims. (Cl. 89—20.)



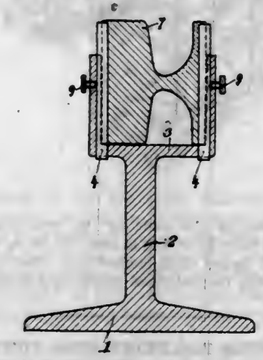
1. In power operated breech mechanism for guns, a hinged carrier, a breech screw mounted on the carrier, a transverse breech screw operating shaft mounted in the carrier, a cylinder and piston attached longitudinally to the gun on the same side as and forward of the carrier hinge, a crank pin on said shaft, and a swinging link mechanism through which the piston rod of said piston is connected to the crank pin.

1,695,729. WINDOW-SASH FASTENER. ARTHUR R. GLIDDEN, Seattle, Wash. Filed Dec. 9, 1925. Serial No. 74,271. 1 Claim. (Cl. 292—218.)



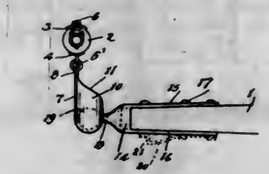
A sash-fastener comprising a strip member provided with a series of recesses, and means to secure said plate to the side rail of an upper sash, a plate member adapted to be secured to the parting rail of the lower sash, said plate being slotted to provide a tongue element therefor, a latch member mounted upon said plate, said latch being formed of a plate folded upon itself to provide two arm elements adapted for engagement in spaced apart recesses of the strip, a means for pivotally connecting the latch to said plate to turn about an axis in laterally offset relation with the strip whereby the latch is capable of being swung into and out of engaged relations with said strip, and a catch provided upon the tongue element of said plate for securing the latch in its engaged position and adapted to be disengaged from the latch by depressing said tongue element.

1,695,730. FIXATION DEVICE FOR RAILS WITH REMOVABLE HEADS. JOSEF GROHS, Vienna, Austria. Filed June 27, 1927, Serial No. 201,898, and in Austria July 2, 1926. 1 Claim. (Cl. 238—132.)



Fixation device for rails with interchangeable head, comprising in combination with the rail head having grooves, a rail consisting of a foot a web and a top portion and having grooves in said top portion alining with the above mentioned grooves, fixation bolts driven into said grooves of the rail head and the top portion of the rail and designed to be forced out in downward direction when said rail head has to be removed, and locking screws for securely holding said bolts in their position.

1,695,731. TONGUE AND NECK-YOKE COUPLING. ROBERT HAYDEN HOLLIS, Kamloops, British Columbia, Canada. Filed Mar. 26, 1926. Serial No. 97,690. 1 Claim. (Cl. 278—122.)

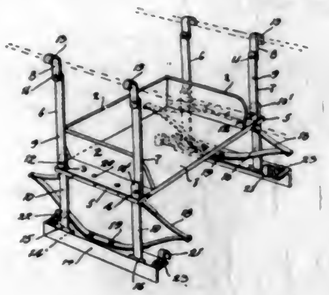


A tongue and neck yoke coupling comprising a socket-like member open at the upper end, the upper edge of said member being inclined downwardly from front to rear, the rear side thereof being provided with a vertical slot and the front side thereof being fitted at the upper end with spaced eyes, rings passing through the eyes, eye bolts passing through the rings and connecting the socket member centrally to the under side of the neck yoke and a head secured to the forward end of the tongue and presenting a horizontally extending neck terminating in a ball end, the ball being adapted to slidably enter the socket through the upper end thereof and the neck to pass downwardly through the slot.

1,695,732. WAGON SEAT. PETER HYNDMAN, Balcarres, Saskatchewan, Canada. Filed Nov. 26, 1926. Serial No. 150,981. 2 Claims. (Cl. 155—9.)

1. In combination, a wagon seat having slots in the corners thereof, elliptical springs underlying and secured to

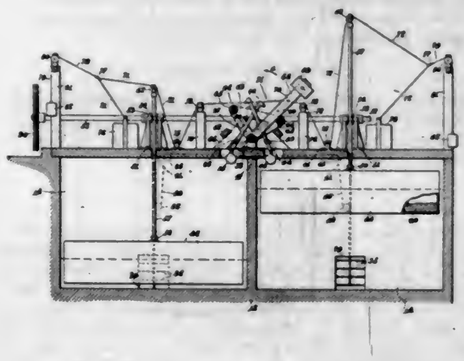
the ends of the seat, side bars underlying and secured to the springs, similar pairs of end hangers passing slidably



through the slots in the ends of the seat and slidably through aligned slots provided in the side bars, said hangers having their upper ends hooked and their lower ends enlarged and being formed from pivotally jointed sections.

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1,695,733. SYSTEM FOR DEVELOPING POWER FROM TIDES. JOHN A. KNOWLTON, Dorchester, Mass., assignor to said Knowlton, trustee for Universal Tide Power Co., Boston, Mass. Filed Feb. 25, 1926, Serial No. 90,557. Renewed May 17, 1928. 39 Claims. (Cl. 253—18.)

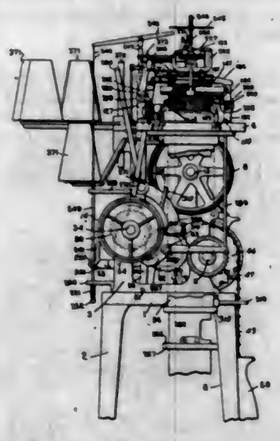


1. A system for utilizing the power of tides consisting of a pair of wells adapted to receive water from a high reservoir and subsequently discharge it into a low reservoir, an inlet gate to each well, an outlet gate from each well, means for simultaneously opening the inlet gate of one well and the outlet gate of the other well and subsequently closing said gates and opening the other gates, pistons in said wells adapted to operate independently of each other, and power creating mechanism actuated by said pistons only during the lowering thereof.

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1,695,734. KNITTING MACHINE. PATRICK P. LA MONTAGNE, Bourbonnais, Ill., assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill., a Corporation of Illinois. Filed Aug. 19, 1921. Serial No. 493,595. 16 Claims. (Cl. 66—24.)

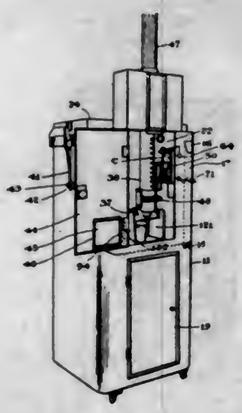
1. A circular knitting machine comprising two sets of needles, non-revoluble operating cams therefor, revoluble needle beds for said sets of needles and means for revolving them, means for causing the operation of said needles to produce either ribbed, plain circular or reciprocating work as desired, pattern controlled means for controlling the change from plain to ribbed work and from ribbed to plain



work, and means for suspending the operation of said pattern controlled means after a predetermined change from plain to ribbed work and for restoring the operation of said pattern controlled means upon the completion of the knitting of a predetermined measured length of ribbed work.

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1,695,735. LIQUID-VENDING MACHINE. LYNN T. LEET, Montreal, Quebec, Canada. Filed Apr. 29, 1926. Serial No. 105,518. 2 Claims. (Cl. 225—21.)



1. In a liquid vending machine, a sealed liquid reservoir, an agitating wheel rotatably mounted in said reservoir, paddles extending from the side of the wheel, a measuring bucket rotatably mounted on the side of the wheel, a toothed pinion secured to the bucket, a rack secured to the interior of the reservoir and adapted to contact with the toothed pinion to rotate the bucket through one complete revolution and means to rotate said agitating wheel.



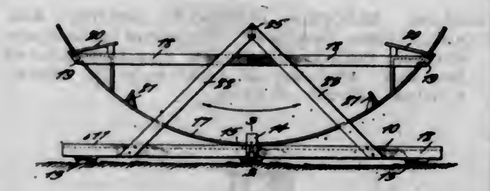
1,695,736. MATTRESS AND METHOD OF SIDE STITCHING THE SAME. WILFRED B. MATHEWSON, North Weymouth, Mass., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Dec. 28, 1923. Serial No. 683,180. 8 Claims. (Cl. 45—138.)



1. The process of side stitching a mattress which consists in indenting the side of a filled mattress at a plurality of separated points simultaneously so as to form a row of indentations and inserting a length of twine through the mattress body longitudinally of said row of indentations and in such position so as to cross each indentation near its inner end.

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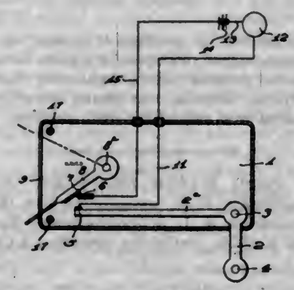
1,695,737. SEESAW. THEODORE C. MOLSDALE, Chattanooga, Tenn. Filed Dec. 18, 1926. Serial No. 155,614. 4 Claims. (Cl. 155—69.)



4. In an amusement device, an oscillatable element comprising a strip of material bowed to form a rocker, braces having their ends anchored to the said element near its end for holding the strip in a bowed shape, seats on the said oscillatable element, and a base narrower than the oscillatable element on which said oscillatable element is supported.

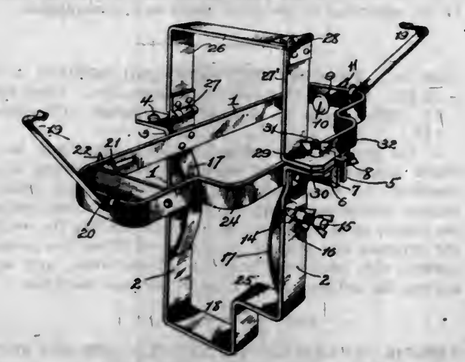
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1,695,738. METHOD OF CONTROLLING THE PROCESSING OF MATERIALS. MORITZ L. MUELLER, Seattle, Wash., assignor to Northwest Blower Kiln Company, Portland, Oreg., a Corporation of Washington. Filed Nov. 9, 1927. Serial No. 232,094. 6 Claims. (Cl. 34—24.)



1. The herein described method of controlling the processing of material subject to shrinkage or swelling in its treatment, which consists of applying to said material, while under treatment an element operable under the influence of the variations in dimensions of the material, and varying the treatment accorded to said material in accordance with the movement of said element.

1,695,739. HOLDER FOR RECEPTACLES. EDWARD R. OWEN, Nyack, N. Y. Filed May 5, 1925. Serial No. 28,197. 3 Claims. (Cl. 224—29.)



1. A holder of the character described comprising a horizontal frame having an intermediate offset portion in one side, a yoke secured to and depending from the side members of the frame and provided with a horizontal shoulder below the offset portion of the frame, and clamping means carried by the yoke and the frame to engage a side and an end of a can supported by the yoke within the frame.

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1,695,740. CATALYTIC AGENT AND PROCESS OF PREPARING THE SAME. WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Filed May 5, 1921. Serial No. 466,998. 8 Claims. (Cl. 23—233.)

1. The method of preparing a catalytic agent, which comprises treating a hard porous material which at most has been only partially dried, said material having pores of a size to adsorb water vapor to such an extent as to contain at 30° C. at least 21% of its own weight of water when in equilibrium with water vapor at a partial pressure of substantially 22 mm. of mercury, with a composition capable of forming catalytic material, and treating to form such catalytic material.

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1,695,741. WELL PACKER. JOHN P. PUGH and WILLIAM C. CLARK, Shreveport, La. Filed Mar. 19, 1927. Serial No. 176,646. 1 Claim. (Cl. 166—10.)



In a well packer, a bearing tube having upper and lower stops and perforations between said stops, a packer sleeve

slidable on the tube between said stops and arranged to normally uncover said perforations, and to cover the same when the sleeve is slid upwardly, and a frangible partition, at the upper end of the tube, above said perforations.

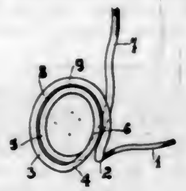
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1,695,742. PROCESS OF PRODUCING SODIUM ACETATE. FRANCIS G. RAWLING, Madison, Wis. Filed May 11, 1927. Serial No. 190,646. 16 Claims. (Cl. 260—119.)

1. The process of preparing sodium acetates from wood which process comprises treating liquor remaining after treatment of woody material with substantially neutral sodium containing extractive compounds by concentrating the liquor, adding caustic soda and lime, heating the resultant mixture and thereby producing water-soluble sodium acetate and relatively insoluble calcium salts, and separating the sodium acetate from the calcium materials.

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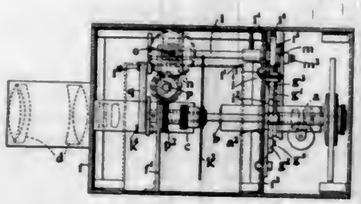
1,695,743. THREAD GUIDE AND CLEANER FOR SPINNING LOOMS AND THE LIKE MACHINES. JOSEPH AUGUSTE ROUGE, Remiremont, France. Filed July 28, 1927, Serial No. 209,125, and in France Aug. 4, 1926. 3 Claims. (Cl. 28—68.)



1. A guide and cleaner for threads comprising a member consisting of a length of wire shaped to form concentric and parallel convolutions in spaced relation to one another, the spaces between the said convolutions corresponding to the size of a thread to be guided and cleaned.

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1,695,744. STEREOSCOPIC CINEMATOGRAPHY. LAWRENCE FRANCIS SAVAGE, London, England. Filed Jan. 25, 1927, Serial No. 163,353, and in Great Britain Feb. 6, 1926. 4 Claims. (Cl. 88—16.6.)



1. An optical system for the production of stereoscopic cinematographic effects comprising in combination a set of separated objective lenses of equal focal length, another set of lenses in alignment with the said set of objective lenses and disposed in the focal planes thereof, said lenses being adapted for the reception of aerial images produced on the respective focal planes of the said objective lenses, a set of re-photographing lenses in alignment with the lenses of the respective sets before referred to and at a determined distance from the aerial images, and a superimposing lens disposed adjacent to the set of re-photographing lenses, substantially as described.

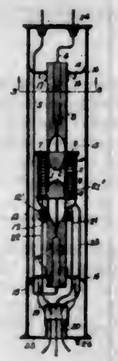
1,695,745. HOSE PROTECTOR. GEORGE E. SKINKLE, Cleveland, Ohio. Filed July 18, 1927. Serial No. 206,497. 2 Claims. (Cl. 36—2.)



1. In a hose protector, the combination of an elongated integrally formed tubular body portion of thin highly resilient rubber adapted to be worn over the hose of the wearer, and a foot portion integrally united with the lower end of the body portion and shaped to fit over the upper portion of the shoe of the wearer, said foot portion having a band adapted to be stretched around the shoe to snugly engage the same and a band adapted to extend under the instep of the shoe, one of said bands being formed of detachably connected parts.

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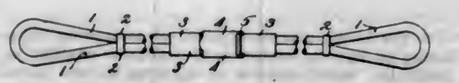
1,695,746. ELECTRON-DISCHARGE DEVICE. KIMBALL H. STARK, New York, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed May 13, 1919. Serial No. 296,846. 9 Claims. (Cl. 250—27.5.)



1. In combination, a gas-tight container, an anode element, a cathode element comprising a glass member having a photo-electric metallic coating sputtered thereon, a discharge-controlling element, and means comprising a spark gap for causing said cathode to emit electrons.

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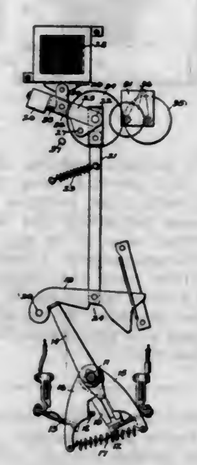
1,695,747. CORD WATCH BRACELET. CHARLES R. TOST, Centerdale, R. I., assignor to The Hadley Company, Providence, R. I., a Corporation of Rhode Island. Filed July 5, 1928. Serial No. 290,290. 4 Claims. (Cl. 24—123.)



1. A watch bracelet comprising a series of links pivoted together, the end links comprising oblong boxes substantially closed at the front and sides by the walls thereof and each substantially closed at its inner ends by the pivotal inter-connection with the next adjacent link, the outer ends of said end links being open respectively to receive the free ends of looped cords, a back pivoted to the sides of each end link near the outer end thereof and swinging toward the inner end to lock the ends of the cord near the outer end of the link, said backs closing the major portions of the rear openings in the end links approximately flush with the rear edges of said sides when in closed position, whereby the frayed ends of the cords are substantially enclosed and the cords are gripped at an appreciable distance from the tips of their frayed ends.

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1,695,748. TIME-ELEMENT ELECTRORESPONSIVE DEVICE. GEORGE R. TOWNSEND, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 5, 1925, Serial No. 48,422. Renewed July 20, 1928. 13 Claims. (Cl. 200—108.)

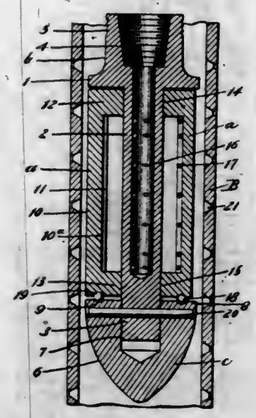


1. A time element electroresponsive device comprising a movable element biased to a predetermined position, means for holding the element in another position comprising a relatively movable member operable into the path of the element and arranged to be operated therefrom by movement of the element in accordance with its bias, means for locking the said relatively movable member against movement by the element, and electroresponsive means biased to render said locking means ineffective a time interval after a predetermined variation in the energization thereof.

13. In a potential starter the combination of a pivotally mounted switch member having an off position between a starting and a running position, said switch member being biased to the off position, a latch for holding the switch member in the running position and for preventing operation of the switch member to the running position before operation thereof to the starting position, a toggle connected to said latch and arranged when extended to hold the latch against movement when the said switch member is in the running position, a movable member normally biased to collapse said toggle, and an electro-magnet responsive to the voltage of the circuit controlled by the circuit in the running position for moving the said switch member to an inactive position when the voltage of the circuit is above a predetermined value, and time element means for delaying the return movement of said member to collapse said toggle for a time interval after a substantial reduction in the voltage of the controlled circuit.



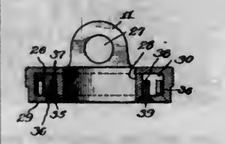
1,695,749. MEANS FOR CLEANING CASINGS. GEORGE D. WATSON, Torrance, Calif. Filed May 26, 1926. Serial No. 111,711. 2 Claims. (Cl. 166—20.)



2. In a well cleaning device, a box formed with a shaft, said box being provided with a flange, a head carried by the shaft, a rotor upon said shaft between the flange of the box and said head, the peripheral surface of said rotor being curved eccentrically relative to said shaft, and the maximum radius of said curved periphery lying in substantial alignment with the periphery of the flange and of the head.

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1,695,750. LUBRICATING DEVICE. ROBERT H. WHITELEY, Oak Park, Ill., assignor to himself as trustee. Filed May 2, 1928. Serial No. 274,410. 4 Claims. (Cl. 192—98.)



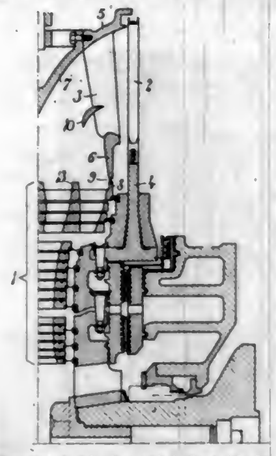
4. In a self lubricating clutch collar, the combination of a bearing member having a metallic body formed with a reservoir, a thrust bearing surface on said bearing member having conduits therein from said reservoir to said bearing surface, and lubricating members in said conduits consisting of initially plastic graphite compound pressed into said conduits in a plastic condition to conform to and fit within said conduits, said graphite compound being set in said conduit in intimate contact with the walls thereof, and said lubricating members being staggered and located to lubricate the bearing surface between said lubricating members.

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1,695,751. RADIAL FLOW TURBINE. OSCAR ANTON WIBERG, Finspong, Sweden. Filed Aug. 20, 1927, Serial No. 214,322, and in Great Britain Aug. 30, 1926. 6 Claims. (Cl. 253—16.5.)

1. In a radial flow elastic fluid turbine, the combination with an axial flow rotary blade system to be operated by the driving fluid after it has left the radial flow blade system, of a non-rotary guide-blade system divided into a plurality of concentric sections so dimensioned that a sec-

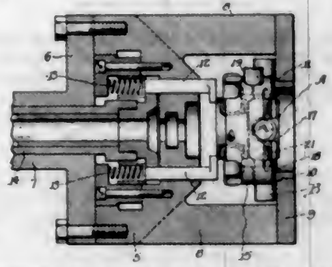
tion of a smaller diameter has a greater proportional increase in effective cross section than the section of a greater diameter so that the velocities of the driving medium



at different diameters of the axial flow blade wheel will be proportional to the peripheral velocities at said diameters.

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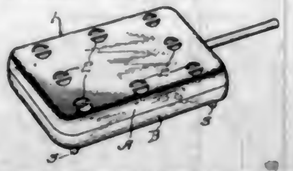
1,695,752. WORK HOLDER. RAYMOND M. WOTTICH, Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 4, 1925, Serial No. 6,674. Renewed Oct. 11, 1928. 12 Claims. (Cl. 82—40.)



5. A shuttle for holding irregular work blanks comprising, in combination, a body adapted to receive the work blanks one in each end and having a plurality of notches in its ends adapted to receive projections on said blanks to square up said blanks in the shuttle, said notches being of such a depth that the blanks project slightly beyond the ends of said body to adapt them to be engaged by the opposed end clamping means of a chuck to square up and clamp the shuttle and blanks in the chuck, and means for yieldingly retaining said blanks in said body.

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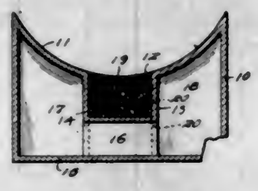
1,695,753. ELECTRICAL HEATER. JOHN M. BAKER, Columbus, Ohio. Filed Jan. 14, 1928. Serial No. 246,844. 2 Claims. (Cl. 219—41.)



1. An immersible water heater comprising a casing formed to include separable upper and lower sections, the walls of said sections being of perforate construction, registering bosses projecting inwardly from the walls of said sections, a plate of insulation clamped between the meeting surfaces of said bosses, a threaded connecting element arranged axially of said bosses for retaining said sections and plates in rigidly assembled relationship, and a plurality of electrically heated coils extending longitudinally across the upper and lower surfaces of said plate and spaced from the walls of said casing, said coils being arranged for direct contact with the liquid circulating through the casing.

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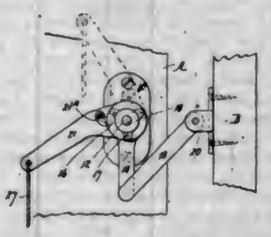
1,695,754. OIL CELLAR FOR JOURNAL BOXES. NOAH BENN, Anderson, Ind. Filed June 17, 1926. Serial No. 116,640. 1 Claim. (Cl. 308—83.)



An oil cellar for journals consisting of a casing having a top concaved wall provided along its median longitudinal dimension with a slot, partition walls located interiorly of the casing and joining with the top wall thereof at the longitudinal edges of the slot forming a recess packed with lubricating material, a conduit wall passing through the partition walls and bridging the space between them and located approximately midway between the ends of the slot and below the top wall, said partition walls being provided with perforations located beyond the sides of the conduit wall.

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1,695,755. OPERATING MEANS FOR FANLIGHTS AND THE LIKE. FRANK BIRD, Hamilton, New Zealand, assignor to Bird's Patents Limited, Auckland, New Zealand. Filed Nov. 18, 1927. Serial No. 234,221. 4 Claims. (Cl. 208—102.)



1. Fanlight or other hinged-sash operating means comprising a journal pivot secured to the main frame of the sash, a crank lever mounted upon such journal and having a ratchet wheel combined therewith, a connecting rod extending between the crank lever and the sash and pivotally attached thereto, an operating lever structually separate from and movable relatively to the crank lever and journalled on the said journal, a pawl pivoted on such operating lever and adapted to engage the said ratchet wheel when the operating lever is turned in one direction, and spring means for normally turning said operating lever in the reverse direction.

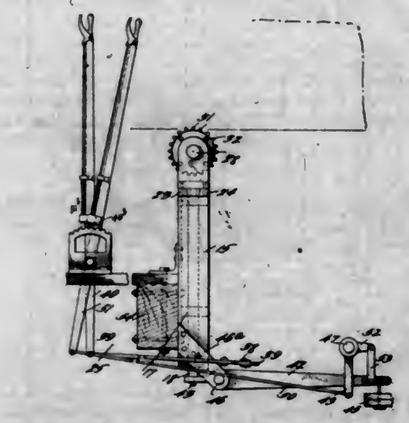


1,695,756. BLUISH SULPHURIZED INDOPHENOL DYES AND PROCESS OF MAKING THE SAME. HERMANN BOTS and ANDRÉ CATINEAU, Basel, Switzerland, assignors to the Firm Society of Chemical Industry in Basle, Basel, Switzerland. Filed Nov. 9, 1925, Serial No. 68,024, and in Switzerland Nov. 28, 1924. 8 Claims. (Cl. 260—19.)

1. The herein described process for the production of bluish sulphurized indophenol dyes by reducing the indophenols made from nitrosophenols and carbazole and sulphurizing the leucoderivative thus obtained in presence of aromatic aminocompounds corresponding to hydrocarbons having less than 12 carbon atoms at substantially 180°.

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1,695,757. CANT SUPPORT AND GUIDE. TROY EARL CAMP, Stephenson, Miss. Filed Nov. 7, 1927. Serial No. 231,613. 6 Claims. (Cl. 143—157.)

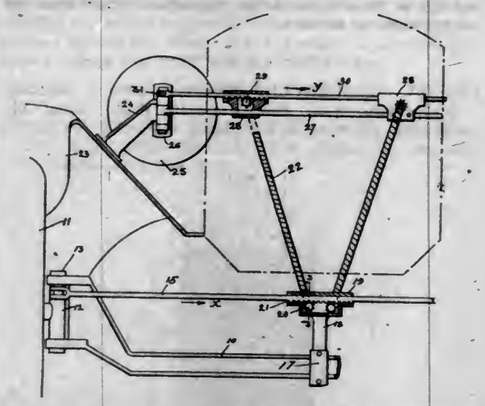


5. In a cant support and guide, a rotatably mounted roller on which a cant may travel, bearings in which the roller is supported, a vertically disposed rotatable shaft connected to a bearing near one end of the roller, a rotatably mounted cam shaft near the opposite end of said bearing, means for communicating the rotary motion of the cam shaft to the last mentioned bearing for oscillating the last mentioned bearing, means for rotating the cam shaft, means for supporting the said shafts in the bearings, and means for moving the said shafts axially and for retaining them in different positions of adjustment.

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1,695,758. AUTOMATICALLY-DIRIGIBLE HEADLIGHT FOR VEHICLES. PIO CANTINI S., Bogota, Colombia. Filed Sept. 6, 1917. Serial No. 217,867. 2 Claims. (Cl. 240—62.)

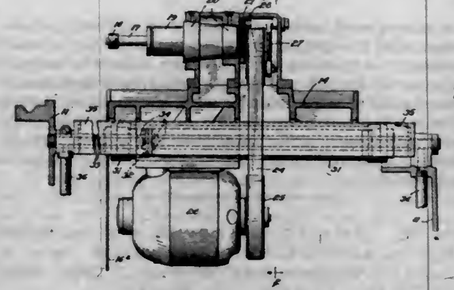
1. In a motor vehicle provided with a pair of steering wheels and a steering rod having positive connection with the wheels; of brackets secured to the vehicle, headlights journaled on the brackets, ears on the headlights, a toothed bar having hinged connection with said ears, a connecting member between the brackets, gear housings secured on said member permitting reciprocation of the toothed bar therein, pinions mounted with their axes horizontally in said housings meshing with the bar teeth, another gear housing fixedly mounted on the vehicle permitting reciprocation of the steering rod therein, said bar running substantially parallel with said rod and transversely of the vehicle, a tooth rack on the steering rod, pinions mounted with their axes horizontally in the second housing meshing with the tooth rack, and flexible shafts connecting the pinions in said other housing with the corresponding pinions in the first housings, said gear housing adapted to permit a limited movement of the toothed bar and the steering rod in axial direc-



tion of the pinions, whereby the headlights are caused to swing with the wheels and substantially the same angle, substantially as set forth.

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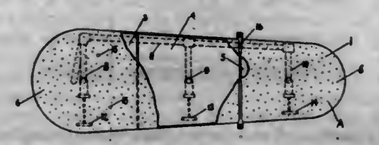
1,695,759. GRINDING MACHINE. PRENTICE CONRADSON, Evansville, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass., a Corporation of Massachusetts. Filed Feb. 15, 1923. Serial No. 619,124. 3 Claims. (Cl. 51—166.)



1. A machine of the character described having, in combination, a base, a carriage mounted for reciprocation on said base, a rotary spindle in said carriage, said carriage having a depending bracket extending into said base, a piston and cylinder unit having one element supported by said bracket and having the other element stationarily mounted on said base, a motor mounted on the under side of said bracket below said piston and cylinder unit, and means for supplying fluid to said cylinder and exhausting it therefrom to effect reciprocation of the carriage.

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1,695,760. BUCK FOR CLOTHES-PRESSING MACHINES. JOHN HERBERT ELLIS, Vancouver, British Columbia, Canada. Filed Dec. 11, 1926. Serial No. 154,173. 1 Claim. (Cl. 68—9.)

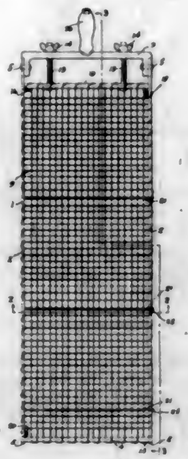


In a pressing machine a hollow buck having a perforated top plate, a wall dividing the buck into compartments,

means for passing a fluid through any one of said compartments, a padding on said plate and means parallel to a dividing wall and directly thereover adapted to clamp the padding to the plate to prevent the spread of fluid from one compartment to another.

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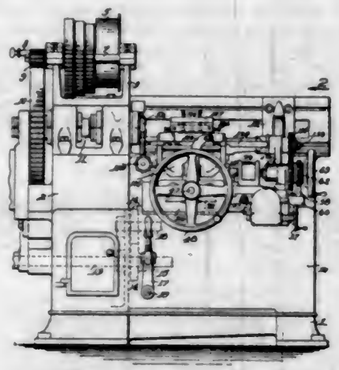
1,695,761. CHEESE-CURD KNIFE. JOHN H. HECKER, Gardnerville, Nev. Filed June 15, 1927. Serial No. 199,052. 1 Claim. (Cl. 31—48.)



A cheese curd knife comprising a rectangular portable frame, short in width and relatively long in length, a handle secured to the shorter end of said frame, and a wire wrapped transversely around said frame, and then longitudinally around said frame, the wires crossing each other for making squares, the squares on one side of the knife being staggered with respect to the squares on the opposite side for causing the knife to cut strips one-quarter of the area of said squares.

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1,695,762. BACKING-OFF DEVICE FOR CUTTERS HAVING ANGULARLY-DISPOSED TEETH. FRANK O. HOAGLAND, Worcester, Mass. Filed Mar. 27, 1924. Serial No. 702,441. 37 Claims. (Cl. 82—19.)

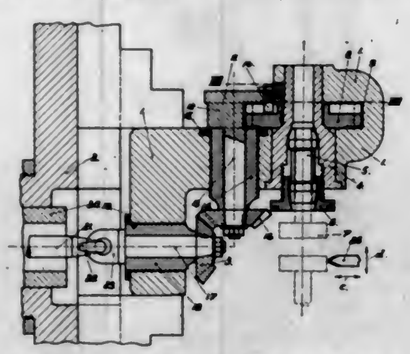


1. In a backing-off attachment, the combination of a slide and means for reciprocating the slide to cause a tool rigidly carried thereby to cut a proper backing-off surface on the end of a tooth on a cutter due to the motion of the slide, with a tool holder supported on the slide, means for changing the elevation of the tool holder on the slide and at the same time shifting the tool holder in the direction of reciprocation of the slide so as to change the position of the tool longitudinally as well as vertically on the slide.

35. The method of making a form tool for backing-off a rotary cutter which consists in providing a master tool having an outline the same as the form to be produced on the cutter, mounting it in stationary position, providing a blank for a form tool of a corresponding outline, rolling or rocking it on a long radius along the edge of the master tool and causing a relative transverse motion between the master tool and form blank to shape the surface of the form tool blank while the latter is rocking along the master tool.

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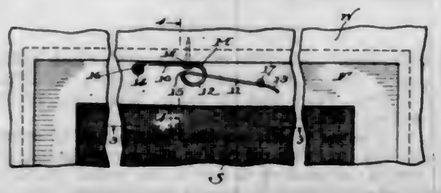
1,695,763. APPARATUS FOR MACHINING POLYGONAL PARTS ON ORDINARY LATHES. ALBERT CORNELIS HOFSTEE, The Hague, Netherlands. Filed Mar. 12, 1925, Serial No. 15,098, and in the Netherlands Mar. 25, 1924. 6 Claims. (Cl. 82—34.)



1. An apparatus for machining polygonal articles on an ordinary lathe comprising a work clamping device adapted to be rotated by a lathe spindle and to clamp the work in a position with its longitudinal axis perpendicularly intersecting the axis of rotation of the spindle, said clamping device being mounted to rotate with the work about the axis of the latter, and means for rotating the clamping device about the work axis in response to its rotation with the spindle about the lathe axis.

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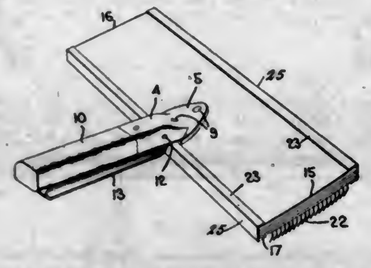
1,695,764. HANGING DEVICE FOR SCREENS. RUSSELL SIDNEY HOLCOMB, Los Angeles, Calif. Filed July 20, 1926. Serial No. 123,667. 5 Claims. (Cl. 156—14.)



3. A screen hanging device comprising a member having a pair of substantially oppositely disposed arms connected at their confronting ends by a curled resilient portion, the free end of one of the arms having an eye through which a fastening member is adapted to be extended to secure the device to a screen while said one of the arms is adapted to be engaged intermediate its ends with a projection secured to a window frame and the other of the arms with a projection secured to the screen, all in such manner that the screen will be hung by the device in the window frame and normally urged to closed position by the device.
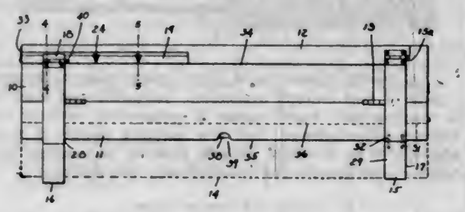


1,695,765. HAND CARD. IRVING C. HOWES, North Andover, Mass., assignor to Davis & Furber Machine Company, North Andover, Mass., a Corporation of Massachusetts. Filed Jan. 16, 1928. Serial No. 246,973. 5 Claims. (Cl. 119—93.)



1. A hand card comprising a laterally tapered flexible sheet of card clothing, a correspondingly laterally tapered body, a handle projecting from the body and two metal slides each secured to an edge of the sheet and fitted to slide therewith laterally on the edges of the body whereby, when the slides and sheet are slid on to the body, the sheet is stretched taut against the face of the body and is firmly held in position and whereby the sheet is readily removable and replaceable.

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1,695,766. PAPER-HANGER'S BOARD. EARLE S. JUDD and RALPH RUSSO, Southington, Conn. Filed Dec. 8, 1925. Serial No. 74,150. 19 Claims. (Cl. 304—38.)



1. A paper hanger's board comprising a main section, a guide section of appreciably less width than said main section, hinged by one of its edges to one of the edges of said main section, having a guide-edge for paper at the other free edge, and provided with an arm for overlying said paper that is connected to said other free edge of said guide section, and the parts being constructed and arranged so that said guide section can be opened out for serving as an extension of said main section.

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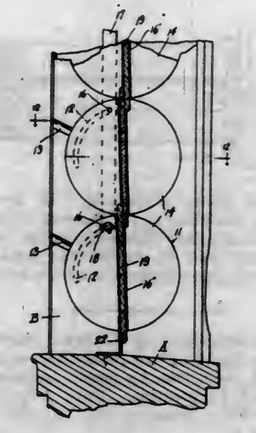
1,695,767. BOOKHOLDER. WILLIAM V. JOHNSON, Washington, D. C. Filed Sept. 1, 1927. Serial No. 216,979. 4 Claims. (Cl. 45—58.)



4. A book holder comprising two members having grooves in the opposed faces thereof, cross rods having enlargements slidably engaged within said grooves, a member pivotally connecting the crossed portions of the rods, an arm pivotally connected to said member for swinging movement in substantially a horizontal direction, a second arm connected to the outer portion of said first named arm, arms slidably disposed through the extremities of the second arm and provided with cross heads, means for slidably connecting said cross heads to the members, a supporting stand, and means for adjustably connecting the second named arm with said supporting stand.

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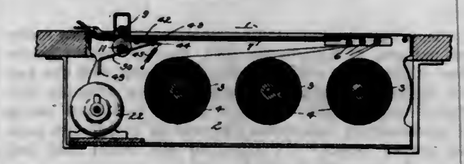
1,695,768. WINDOW SASH. RICHARD S. KELLY, Jersey City, N. J. Filed Mar. 10, 1928. Serial No. 260,629. 4 Claims. (Cl. 20—62.)



1. In a window sash of the character described, a pair of spaced parallel frame units, a plurality of longitudinally spaced members rotatably arranged within the inner faces of said frame units, horizontal glass panels arranged at their ends within said members, means whereby all of said members may be simultaneously rotated for moving the panels to open or closed position, the inner faces of said members being cross slotted for receiving the ends of the glass panels and said frame units being formed at their outer edges with slots whereby when the member channels are in alinement with said slots said panels may be removed therefrom.

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1,695,769. POWER-DRIVEN BILLING MACHINE. VIRGIL D. MANSFIELD, Columbus, Ohio. Filed Apr. 13, 1926. Serial No. 101,800. 4 Claims. (Cl. 192—127.)

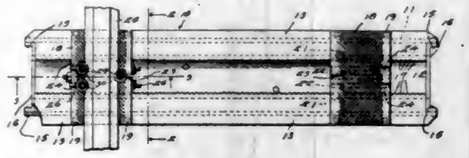


2. In an autographic register, a casing comprising a table, frictional feeding rollers arranged adjacent to one end of said table and adapted to have placed between them a record sheet, said sheet being provided at spaced intervals with perforations, a shaft journaled in said casing, an electric motor, power transmission devices between said motor and said shaft, a disk loosely mounted on said shaft and provided with a conical bore, a conical clutch member rotatable and longitudinally movable with respect to said shaft, spring means normally maintaining said clutch in engagement with said disk to drive the latter with said shaft, a switch for governing the oper-

ation of said motor, and movable link means cooperative with said switch and said clutch member to close the circuit of said motor when the clutch member is in driving engagement with said disk and to permit of the opening of said switch when said clutch member is disengaged with said disk, said link means being further arranged for engagement with the perforations in said record sheet to complete the opening of said switch.

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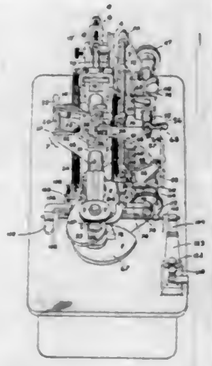
1,695,770. RAILWAY TIE. JOHN B. MASERANG, Belleville, Ill. Filed June 20, 1928. Serial No. 286,757. 3 Claims. (Cl. 238—79.)



1. A railway device comprising a tie having a channel, notches in the walls of the channel, a rail chair having teeth interchangeably engageable in the notches, means for securing the chair to the tie, and means carried by the chair for clamping engagement with a rail base.

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1,695,771. ENGRAVING MACHINE. SAMUEL C. MCKEOWN, New Rochelle, N. Y., and CHARLES C. BRUCKNER, Ironia, N. J., assignors, by mesne assignments, to The Engravograph Corporation. Filed July 14, 1922, Serial No. 574,977. Renewed July 13, 1928. 54 Claims. Cl. 90—24.4.)

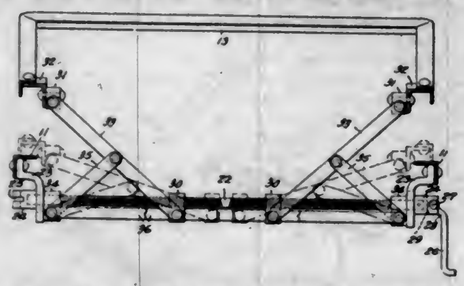


1. In a reproducing machine, a relatively movable tracer and pattern, a reproducing tool, means whereby movement of the tracer caused by its engagement with the pattern during their relative movement in one direction electrically controls the operation of the tool, and means for mechanically supporting the tool in inoperative position during relative movement of the tracer and pattern in the opposite direction.

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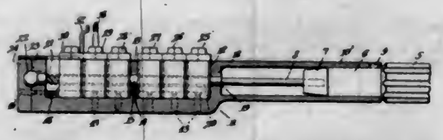
1,695,772. BED. WILLIAM MINGLE and HENRY M. JACKSON, Montreal, Quebec, Canada, assignors to Simmons Limited, Montreal, Quebec, Canada. Filed June 23, 1924. Serial No. 721,916. 3 Claims. (Cl. 5—77.)

1. In a bed, a main frame, an articulated bed bottom supported thereon, an adjusting gear for the bed bottom comprising a right- and left-hand screw disposed transversely of the bed, nuts thereon, linkage between said nuts and the sides of the bed bottom frame, thrust collars within which said screw turns, and further links half the length of said first links connected between the medial points of said first mentioned links and the thrust collars whereby the ends of said first links connected to the bottom frame are compelled to move vertically and the outward thrust of the nuts is transmitted to the collars, and links connecting the thrust collars on opposite sides of the bed.



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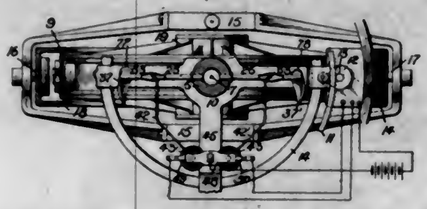
1,695,773. ATTACHMENT FOR DENTAL ENGINE HANDPIECES. WILLIAM C. MORGAN, Beeville, Tex., assignor of one-fourth to J. Sid Hall, Beeville, Tex. Filed Jan. 19, 1926. Serial No. 82,318. 23 Claims. (Cl. 32—11.)



6. A dental engine hand piece comprising a support, a pair of tool holders associated therewith and movable at substantially right angles to each other to vary the distance therebetween and the working depth of tools adapted to be mounted in said holders, and means carried by said support for rotating said tool holders.

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1,695,774. TRANSMISSION AND FOLLOW-UP SYSTEM FOR GYROCOMPASSES. THOMAS A. MORGAN and HERBERT H. THOMPSON, Brooklyn, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 25, 1922. Serial No. 531,748. 9 Claims. (Cl. 23—226.)



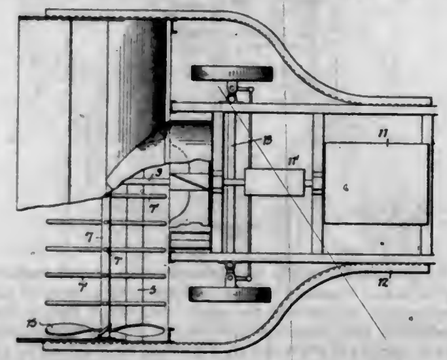
2. In a gyro-compass, the combination with the sensitive element, of means for transmitting the readings thereof to a distance comprising a follow-up element, means for rotating the same, normally balanced air pressure means for controlling said rotating means to render the same effective when the balance is disturbed, means for disturbing said pressure balance upon relative rotation of said sensitive and follow-up elements, and transmitting means driven by said follow-up element.

3. In a gyroscopic compass, the combination with the sensitive element, of means for transmitting to a distance the readings thereof, comprising a power driven follow-up supporting element, a transmitter, there being a plurality of ports on one of said elements, means for drawing air through said ports, cooperating valves on the other of said elements to vary the relative amount of air flowing through the ports on relative rotation of the elements, means for rotating said transmitter and said second mentioned element, and means actuated by the variations in the flow of air for controlling said rotating means.



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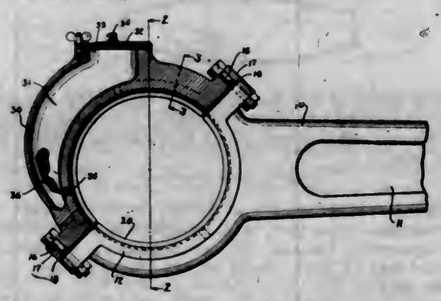
1,695,775. SNOWPLOW. JAMES MUSIL and DAVID HUTCHISON GILCHRIST, Olivia, Minn. Filed Sept. 27, 1927. Serial No. 222,339. 2 Claims. (Cl. 37—43.)



1. In a snow plow, in combination, a series of agitating arms, a rotatable shaft on which said arms are mounted, and fans mounted on said shaft at the ends thereof adapted to blow snow toward the central portion of the shaft, a casing within which the shaft, agitating arms and fans are mounted, means for rotating the shaft, agitating arms and fans, and means for conveying snow from the casing.

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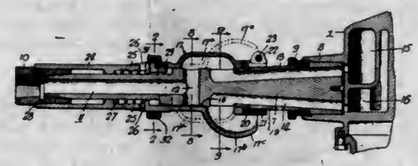
1,695,776. ECCENTRIC YOKE. FRED A. NEMEC, Brea, Calif. Filed Jan. 22, 1925. Serial No. 4,021. 1 Claim. (Cl. 308—125.)



In a device of the class described, an eccentric having a peripheral boss thereon, an eccentric bushing on said eccentric, said bushing having an inner peripheral recess corresponding to and fitting over the boss on said eccentric, a peripheral boss on said eccentric bushing, said eccentric bushing comprising a plurality of curved pieces of metal provided with anti-friction means, a yoke fitted about said eccentric bushing, said yoke having an inner peripheral recess adapted to fit over said peripheral boss on said eccentric bushing, said yoke comprising two portions, means to fasten said portions together to form a complete eccentric strap, one of said strap portions having a protuberance thereon, an oil cavity in said protuberance, a second bushing in said yoke, said yoke and said last named bushing having aligned apertures, an oil pipe in said apertures, a wick in said pipe, and means to prevent relative rotation between said last named bushing and said yoke.

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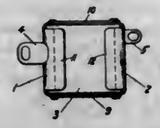
1,695,777. REVERSIBLE DRILL THROTTLE. REINHOLD A. NOALING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 6, 1922. Serial No. 550,190. 10 Claims. (Cl. 121—35.)



1. A reversible drill throttle, comprising a stem having a tapered portion between its ends and having supply and drill passages opening outward through said taper, a tubular valve member with a tapered bore fitting the taper of the stem over the open ends of said passages and having inlet and exhaust chambers for reversing the flow of air through the drill passages on turning the valve member, the taper of the stem and that of the bore being complementary and relatively slight so that the end areas of said valve chambers will be substantially the same, a relatively light spring at the smaller end of the taper for holding the valve member up on the same, and an end thrust bearing for the valve member at the larger end of the taper.

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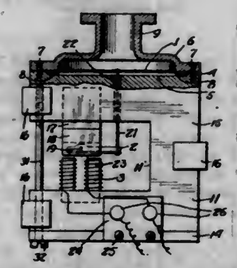
1,695,778. ELECTRICAL CONDENSER. EDWARD B. NOWOSIELSKI, Bloomfield, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Jan. 2, 1925. Serial No. 269. 6 Claims. (Cl. 175—41.)



1. An electrical condenser comprising a stack of insulating and conducting sheets, a pair of clamps embracing opposite ends of said stack and in electrical connection with said conducting sheets at the respective ends and holding members of insulating material independent of any members embraced by said clamps connected between said clamps.

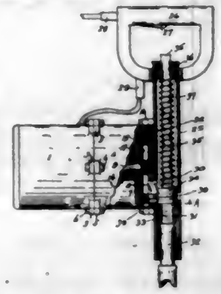
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1,695,779. LOUD SPEAKER. ALEXANDER NYMAN, New York, N. Y. Filed Nov. 24, 1925. Serial No. 71,240. 16 Claims. (Cl. 179—119.)



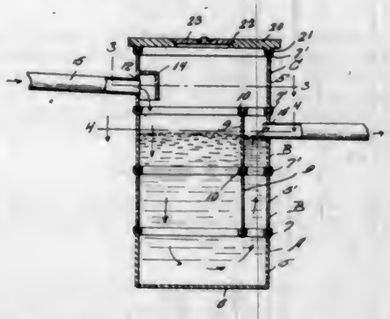
1. A loud speaker comprising a sound producing surface, a rocking armature connected thereto, a source of magnetic flux, means for providing additional magnetic flux, and a member under tension for controlling the effect of said flux and said means in the actuation of said surface.

1,695,780. ELECTRIC HAMMER. KONRAD OLSEN, Tacoma, Wash. Filed Aug. 16, 1926. Serial No. 129,545. 1 Claim. (Cl. 78—38.)



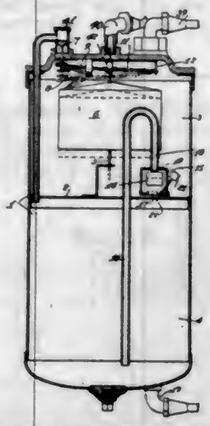
In an electric hammer, the combination of a main tube, having a handle attached to one end; a bushing in the other end of the tube and adapted to receive the tool; a bearing bushing adjacent said tool bushing; a second bearing bushing at the handle end of the tube; a hammer rod extending within said tube through both said bearing bushings, and adapted to reciprocate therein; a weight secured to said rod, between the bearing bushings and near the lower end thereof; a long helical spring mounted within said tube and surrounding said hammer rod and compressed between said upper bearing bushing and said weight, whereby said rod, with the weight, is actuated downward to engage the tool; a cam arranged adjacent said weight and rotating on an axis at right angles to the axis of said rod; and a pin secured to said weight and engaging said cam, whereby the weight is raised against the action of said spring and is released to be driven by said spring against said tool.

1,695,781. GREASE TRAP. JOHN EDWARD OTIS, West New York, N. J. Filed June 28, 1927. Serial No. 202,024. 6 Claims. (Cl. 210—56.)



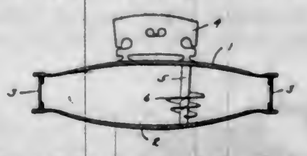
1. A grease trap of the class described formed of concrete comprising a bottom section having a cylindrical wall provided with a channel bead for its upper edge and a bottom at its lower edge, intermediate portions comprising a cylindrical wall having its lower edge receivable in the channel bead of the bottom section and having a channel bead formed on its upper edge, an arcuate partition in the second section eccentrically thereof, a third section having a cylindrical wall with its lower edge received in the channel bead of the second section and formed with a channel bead at its upper edge, the wall of the third section formed with an opening, and a shield extending inwardly from the wall of the third section above the opening and then downwardly to terminate below the opening, a disc-like cover having an annular rib depending from its lower surface to be received in the channeled bead of the third section, said second section having an opening adapted to receive an outlet pipe.

1,695,782. LIQUID-FEEDING DEVICE. VOLNEY A. SEARLES, Jackson, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 19, 1923. Serial No. 669,478. 3 Claims. (Cl. 103—236.)



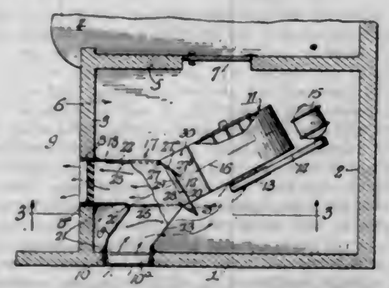
1. In a device of the class described, an upper chamber and a lower chamber, means for alternating vacuum and atmospheric pressure in the upper chamber, a siphon tube connecting said chambers and having one leg terminating in the upper chamber and its other leg terminating in the lower chamber, a float valve controlling communication of said siphon with the upper chamber, and means for holding said float-valve open when the level of liquid in the upper chamber is below a predetermined point.

1,695,783. SOUND POST FOR VIOLINS. RALPH W. STEPHENSON, Davenport, Iowa. Filed Apr. 21, 1927. Serial No. 185,371. 3 Claims. (Cl. 84—277.)



1. A device of the class described, comprising a soundpost adapted for support in the body of a stringed musical instrument, and a lamina wound in a continuous spiral on said post.

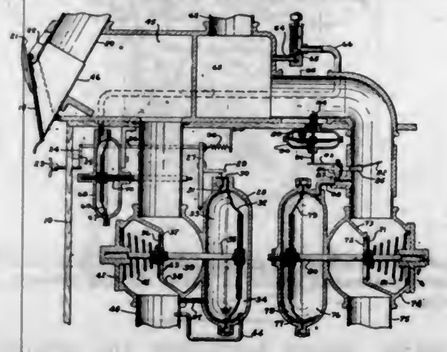
1,695,784. VENTILATING APPARATUS. IRVING C. STERNBERG, New York, N. Y., assignor to Arctic Nu-Air Corporation, Chicago, Ill., a Corporation of Illinois. Filed May 27, 1927. Serial No. 194,620. 8 Claims. (Cl. 98—33.)



1. In combination with building walls defining a compartment and having apertures therein, one leading to atmosphere and another leading to a room in said building to be ventilated, a blower in said compartment having an inlet and a discharge and means connecting said discharge to either of said apertures, thus bringing the other aperture into the influence of the inlet of said blower.



1,695,785. PRESSURE-VACUUM SYSTEM OF PNEUMATIC DISPATCH. JOSEPH J. STOETZEL, Bellaire, N. Y., assignor to G. & G. Atlas Systems, Inc., New York, N. Y., a Corporation of New York. Filed May 13, 1926. Serial No. 108,711. 3 Claims. (Cl. 243—2.)



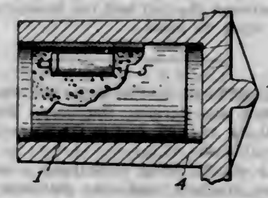
1. In pneumatic dispatch apparatus, a carrier transmitting line, means for causing a carrier-propelling flow of air under pressure through said line, a normally closed gate at the outlet of said line, a by-pass around said gate through which air in advance of a carrier being transmitted can escape, means actuated by the carrier as it approaches said outlet for temporarily cutting off said by-pass thereby causing a pressure surge in the line, and means operated by said pressure surge for cutting off said carrier-propelling flow.

1,695,786. BUMPER. GEORGE W. VEALE, Cleveland Heights, Ohio, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 22, 1927. Serial No. 214,534. 3 Claims. (Cl. 293—55.)



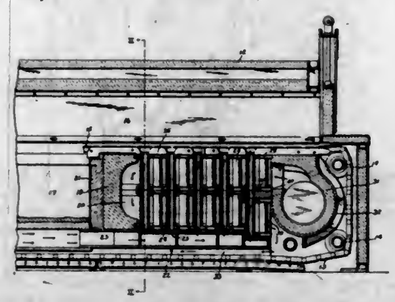
1. In a bumper for automobiles, a pair of substantially parallel impact bars spaced apart, each of said bars having a longitudinally extending groove in its outer face, and a clamp for said bars comprising a plate overlying the grooved surfaces of said bars, said plate being provided with bosses of a width to fit said grooves, a second plate overlying the opposite surfaces of said bars, and a bolt joining said plates between said bars.

1,695,787. METHOD OF MAKING PISTON RINGS. EDWARD M. WILLIAMS, Elyria, Ohio, assignor to Williams Alloy Products Company, Elyria, Ohio, a Corporation of Illinois. Filed Feb. 28, 1925. Serial No. 12,218. 1 Claim. (Cl. 29—156.6.)



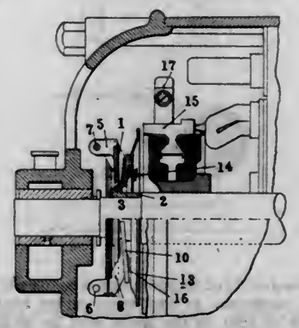
The method of manufacturing piston rings which consists in forming a metal cylinder, mounting the same for rotation, hammering the outer surface of the cylinder by imparting rapid blows to the cylinder while it is rotating upon the entire surface thereof, then taking the cylinder and mounting it for rotation so that the inside surface is exposed and subjecting the inside surface to a rapid hammering action over the entire surface while the cylinder is rotated, then removing the cylinder of metal and cutting it into individual rings and splitting the individual rings transversely of the ring.

1,695,788. GLASSWARE-ANNEALING LEER. PERCY Q. WILLIAMS, Toledo, Ohio, assignor to The Owens Bottle Company, Toledo, Ohio, a Corporation of Ohio. Filed Jan. 28, 1927. Serial No. 164,138. 18 Claims. (Cl. 49—47.)



18. A leer comprising an annealing tunnel, a heating unit below the forward end of the tunnel, a vertical tube recuperator associated with said unit and opening into said annealing tunnel through the floor of the latter, means causing continuous recirculation of atmospheric air through the recuperator and predetermined portions of the tunnel, and means including slide valves for eliminating certain of the recuperator tubes from the path of circulation of air.

1,695,789. SHORT-CIRCUITING MECHANISM. CARL H. WOLFF, St. Louis, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a Corporation of Delaware. Filed Jan. 16, 1924. Serial No. 686,505. 9 Claims. (Cl. 200—80.)

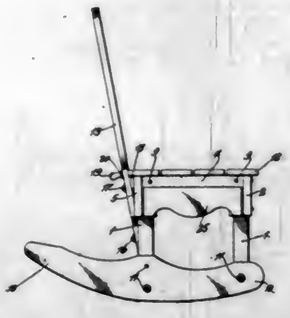


1. Circuit changing mechanism comprising a pivoted centrifugal member, and a circuit-closing member supported by the centrifugal member by means of a pin and slot connection.

1,695,790. CHAIR. ISABELLE KERN WURDACK, Normandy, Mo. Filed Nov. 11, 1925. Serial No. 68,294. 1 Claim. (Cl. 155—188.)

A chair comprising two front and two rear legs, a seat supported at the upper end of said legs, a transverse slat and a transverse guide attached to the rear sides of the front legs below the seat and having their lower and upper

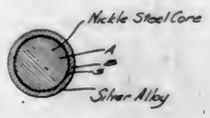
edges parallel and spaced apart, a transverse slat and a transverse guide attached to the rear sides of the rear legs below the seat and having their lower and upper edges parallel and spaced apart, a work support mounted on said guides for sliding movements, front and rear side walls for said support having their upper edges below and adjacent to the lower edges of and in the planes of said slats respectively, an outer end wall attached to said support and



having its ends extending beyond said side walls and arranged to extend across portions of the outer surfaces of said legs respectively and having its lower edge extending below said support and constituting a handle, and transverse members attached to the front sides of the front legs and rear sides of the rear legs respectively and having their ends extending laterally beyond said legs and terminating approximately in the plane of the outer surface of said outer end wall.

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1,695,791. LEADING-IN WIRES FOR EVACUATED CONTAINERS AND PROCESS OF MAKING SAME. JOHN ADAM YUNCK, South Orange, N. J. Filed Aug. 6, 1927. Serial No. 211,252. 8 Claims. (Cl. 176—36.)

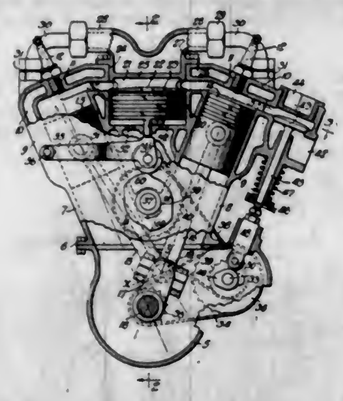



1. As a new article of manufacture, a composite wire having a mean coefficient of expansion under heat approximately equal to that of the glass used in making incandescent electric lamps, which wire comprises a core of approximately forty percent (40%) nickel and sixty percent (60%) iron, with a welded-on sheath formed of a silver alloy, the silver being the major constituent of said alloy.

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1,695,792. INTERNAL-COMBUSTION ENGINE. ANTON ZEMAN, Chicago, Ill. Filed Aug. 2, 1926. Serial No. 126,372. 14 Claims. (Cl. 123—78.)

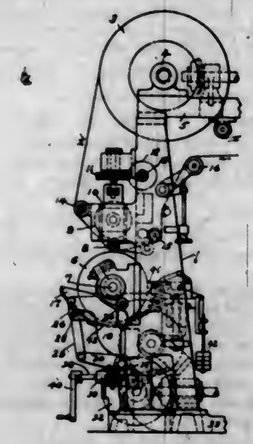
1. In a four-cycle internal combustion engine, a plurality of cylinders arranged in inclined relation, pistons working in said cylinders, and a shallow auxiliary compression member between pairs of said cylinders having connection with said cylinders to compress the gases therein when one of the pistons has moved over the dead-center



position on its working stroke and the other is in its dead center position to create an initial starting leverage on firing.

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1,695,793. INKING MECHANISM FOR INTAGLIO-PRINTING MACHINES. ADOLPH M. ZUCKERMAN, New York, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a Corporation of New York. Filed July 25, 1925. Serial No. 46,021. 6 Claims. (Cl. 101—157.)



1. In an intaglio printing machine, the combination of a printing couple including an engraved form cylinder and cooperating impression means, an ink fountain in which the form cylinder runs, a pivot for the ink fountain about which the fountain may be rocked, a worm, means for rotating the worm, a roll engaging the worm, and operating connections between the roll and the fountain for rocking the fountain about its pivot.

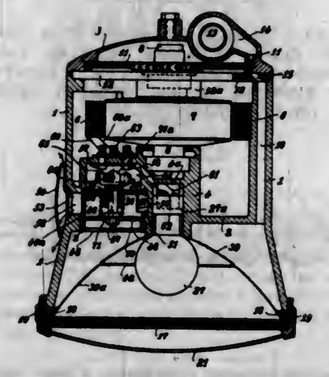
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1,695,794. ELECTRIC SAFETY LAMP FOR MINERS. OTTO BECKER, Jr., Barmen, Germany. Filed Apr. 28, 1927, Serial No. 187,202, and in Germany Nov. 4, 1925. 5 Claims. (Cl. 240—17.5.)

1. A safety electric lamp comprising a casing having separate motor, generator and lamp chambers, an air inlet to the motor chamber, an air conducting passage between the motor and lamp chambers and a lateral final air outlet



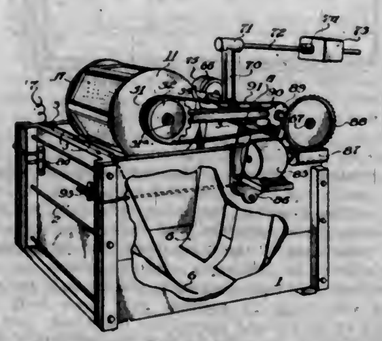
in rear of the lamp chamber, a turbine in the motor chamber, a current generator in the generator chamber driven by said motor, a lamp in the lamp chamber supplied with current from the generator, a lens closing the front of the lamp chamber, a reflector partition subdividing the lamp chamber into front and rear compartments, with which



rear compartment the air passage communicates, said partition being provided with an air gap connecting the two compartments and surrounding the lamp, a throttling device arranged in the line of flow of the air from the rear compartment to the final air outlet, and a switch device controlling the supply of current to the lamp and governed in action by said throttling device.

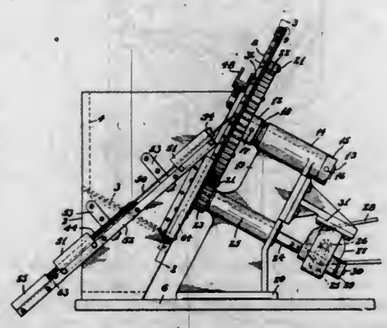
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1,695,795. PLATING TANK. WILLIAM E. BELKE, Chicago, Ill. Filed Apr. 14, 1927. Serial No. 183,731. 2 Claims. (Cl. 204—11.)



1. In an electroplating device, a tank for an electrolytic solution, an anode for contacting the solution, a pair of supporting arms each having a transverse shaft journaled thereto, a container for the pieces to be electroplated rotatably mounted on said shafts, an arbor having depending slotted ends adapted to be detachably supported by said shafts, a plurality of contact fingers depending from the arbor, means for immersing the container in the solution, and means for rotating the container.

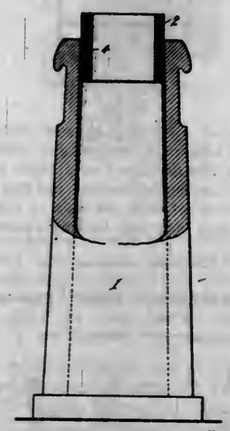
1,695,796. STRINGING MACHINE. EDWARD B. CARTER, Boston, Mass. Filed Apr. 23, 1927. Serial No. 186,125. 37 Claims. (Cl. 209—72.)



1. In a washer stringing machine, a washer carrying rotor, a wire associated with said rotor, and means to present the convex side of said washers to one end of said wire.

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1,695,797. SHRINK-HEAD CASING. FRED H. CHAPIN, Cleveland Heights, Ohio, assignor to The Bourne-Fuller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 29, 1924. Serial No. 758,594. 13 Claims. (Cl. 22—147.)



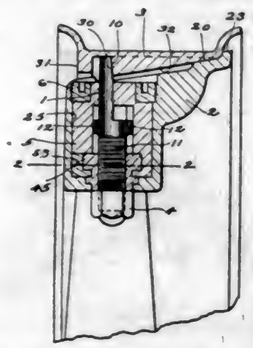
1. A shrink head casing for ingot molds comprising a mixture of cement and slag in the proportions of substantially four parts of slag to one part of cement.

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1,695,798. MANUAL RIM LOCK. WILLIAM A. CLENCH, Vancouver, British Columbia, Canada. Filed Nov. 23, 1926. Serial No. 150,174. 2 Claims. (Cl. 301—21.)

1. A rim-locking device comprising, in combination with a rim and with the felly of a wheel having a socket opening at its outer periphery, a casing shouldered at its outer end and receivable in said socket, a securing nut secured in the mouth of said socket and engageable with the shoulder of said casing to retain it in its socket and lying

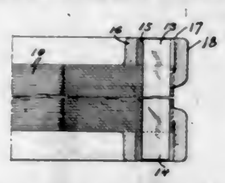
beneath the rim, a clamping nut swiveled in the inner end of said casing, and engageable from the inner periphery of the felly, a bolt threaded in said clamping nut and pro-



jectable and retractable through said casing from the outer periphery of the felly, and radially thereof, upon manipulation of said clamping nut.

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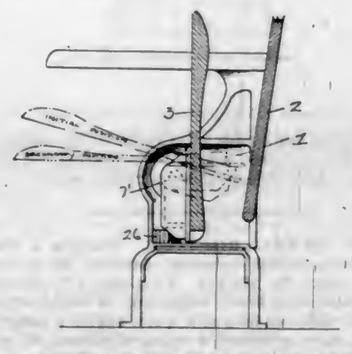
1,695,799. METHOD OF PRODUCING INTEGRAL BAR WINDINGS IN THE ROTORS OF ELECTRIC MOTORS. CARL L. DAUN, Milwaukee, Wis., assignor, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Filed Aug. 14, 1923. Serial No. 657,374. 5 Claims. (Cl. 29—155.5.)



3. The method of producing a rotor with integral bar windings, which comprises, inserting a circular series of metal bars about the periphery of a rotor body with the ends of said bars projecting beyond the end of said body, and fusing the metal of said bar ends to form an integral ring connecting said bars and bearing against the end of said body.

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1,695,800. SELF-RAISING SEAT. BERNARD J. DEVER, Oakland, Calif. Filed Dec. 13, 1926. Serial No. 154,456. 4 Claims. (Cl. 155—87.)



1. In combination a chair frame having a seat pivotally mounted thereon; a disc rotatably mounted on the seat pivot; a spiral spring around the seat pivot having one end thereof secured to said pivot and the other end secured to the disc; a jointed arm having one end pivotally secured to the chair frame and the other end pivotally secured to the disc; means on the chair seat to engage the jointed arm to move the arm and disc to wind the spring as the seat is swung from a vertical to a horizontal position; and means interposed between the wound spring and seat to swing the seat from a horizontal to a vertical position.

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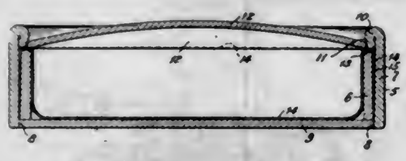
1,695,801. ELEMENT SUPPORT FOR ELECTRIC STOVES. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Nov. 18, 1926. Serial No. 149,025. 11 Claims. (Cl. 219—37.)



1. A heating element, comprising, a base member, a heating coil, and a plurality of supporting devices for supporting said heating coil on said base member, said supporting devices being formed to provide a tongue adapted to extend through the base member to receive a pin for securing the supporting devices to the base member and pins engaging said supporting devices.

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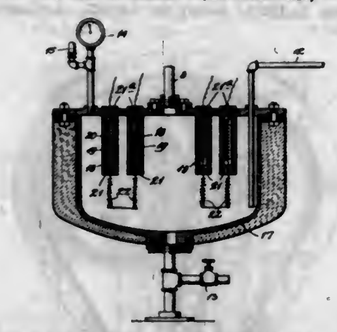
1,695,802. CONTAINER. ALEXANDER H. DREUX, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada, a Corporation. Filed May 18, 1926. Serial No. 109,846. 3 Claims. (Cl. 229—6.)



1. A container including, in combination, a body including outer and inner tubular body parts, a fabric lining positioned within the inner body part for lining the interior of the container, said lining overlapping the top or outer edge of the inner body part to provide a sealing member at said outer edge and having its edges lying between said outer and inner tubular body parts for securing the lining in position, said outer body part extending at its top end beyond the inner body part and being provided at the extended part thereof with a crimp or roll providing a closure retaining bead positioned adjacent said top edge of the inner body part and providing a closure seating groove between said bead and said sealing member, and a removable closure having edges positioned in said seating groove and adapted to engage yieldingly with the container whereby said closure can be snapped past said bead into or out of closing position, and said seating groove and closure having mutually engaging contact surfaces cooperating by virtue of the yielding engagement between the container and closure when the latter is in closing position to yieldingly press said closure into sealing contact with said sealing member.



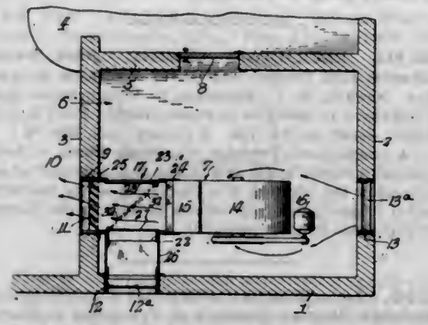
1,695,803. ELECTRIC PRESSURE GENERATOR. AUGUST EIMER, New York, N. Y. Filed May 10, 1924. Serial No. 712,289. 1 Claim. (Cl. 219—38.)



A generator comprising a boiler adapted to contain a liquid of low conductive capacity, a closure for said boiler, tubes depending from said closure and extending into the liquid and electrical heating elements mounted within said tubes, insulated and sealed therein, a portion of said elements extending below said tubes and being exposed to contact with the liquid.

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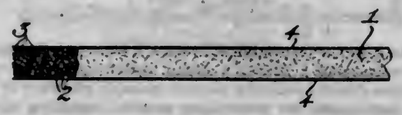
1,695,804. VENTILATING APPARATUS. ALLEN A. FEINBERG, Minneapolis, Minn., assignor to Arctic Nu-Air Corporation, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1927. Serial No. 195,955. 5 Claims. (Cl. 98—33.)



1. In combination with building walls, defining a compartment and having apertures therein, one leading to a room to be ventilated and other being closable and leading to atmosphere, a blower in said compartment and having a discharge neck, tubular means providing a continuation of said neck and connected to said first named aperture, said continuation having an opening in one said and a lateral extension on the other side connected to one of said other apertures, and a damper arrangement in said continuation and operable to either close off said opening and extension from said continuation or to connect said extension only with said neck through said continuation.

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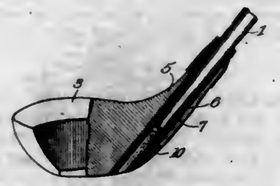
1,695,805. WADDING AND BAT. JOSEPH GATTI, New York, N. Y., assignor to Gatti Service Incorporated, New York, N. Y., a Corporation of New Jersey. Filed Feb. 2, 1928. Serial No. 251,270. 2 Claims. (Cl. 19—146.)



1. A wadding composed of granular wood pulp intermixed with long cotton fiber, the latter being in the majority and forming a binder to make a substantial fabric.



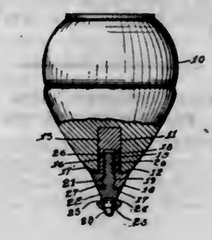
1,695,806. GOLF CLUB. PAUL E. HELLER, Newark, N. J. Filed Mar. 22, 1927. Serial No. 177,254. 4 Claims. (Cl. 273—80.)



1. A golf club comprising a shaft and a head member mounted thereon, said head member being formed with a connecting portion having a bore to receive the shaft end, a rubber sleeve fitted within the bore and interposed between the wall of the bore and the shaft, said shaft being of tubular metal and a tapered wedge forced into the lower end portion of the shaft for expanding the shaft end for securing the parts and to effect compression of the sleeve, substantially as described.

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1,695,807. TOP. JACOB L. KLEINMAN, New York, N. Y. Filed July 28, 1926. Serial No. 125,344. 14 Claims. (Cl. 46—32.)



1. A top comprising a body portion having a centrally disposed opening therein, a peg mounted in said opening, a spinning member loosely mounted in said peg and shock absorbing means operatively connected to said body portion, and peg.

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1,695,808. COMPOSITION TO BE ADDED TO CEMENT MIXINGS FOR COLD GLAZES OR THE LIKE. JOHN LANGBEIN, Hamburg, Germany. Filed May 20, 1925, Serial No. 31,707, and in France Feb. 18, 1925. 1 Claim. (Cl. 134—1.)

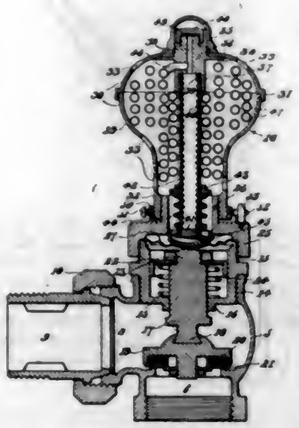
A composition of matter comprising a mixture of polymerized linseed oil, ammoniacal water, milk of lime, and infusorial earth in the proportions of 250 : 660 : 5750 : 1000 parts by weight respectively, for the purpose set forth.

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1,695,809. AUTOMATIC HEAT-CONTROLLING REGULATOR. JAMES J. LAWLER, Mount Vernon, N. Y., assignor to Direct-Control Valve Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 13, 1925. Serial No. 50,032. 13 Claims. (Cl. 236—42.)

1. In a device of the type described, a valve casing, a cage mounted in said casing, a reciprocating valve carried by the cage, a spring in the cage for opening the valve, a cap mounted on the cage and having a tubular stem in axial alinement with the valve, an actuator loosely posi-

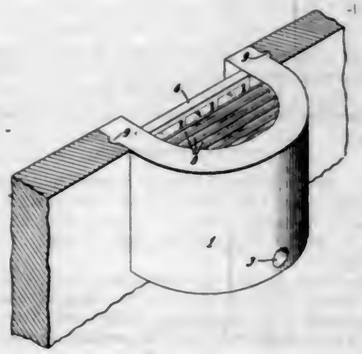
tioned in the bore of the stem, and a thermostatic unit bodily adjustably carried by the stem on said cap in axial alinement with said valve and functioning when being adjusted,



to seat the valve or permit the spring to unseat the valve, the unit automatically functioning to close the valve without being adjusted.

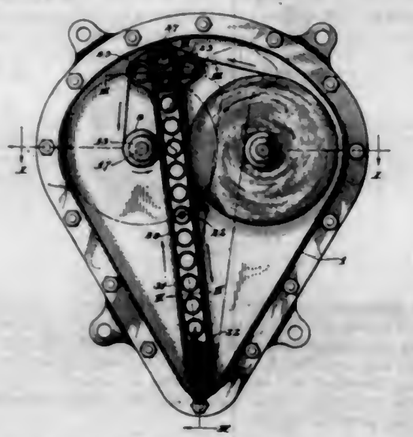
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1,695,810. AREAWAY CONSTRUCTION. URWIN J. MAGILL, Rye, N. Y. Filed Jan. 20, 1928. Serial No. 248,042. 3 Claims. (Cl. 72—0.5.)



1. In the combination of a foundation wall, having an opening therein leading to an areaway, a unitary areaway structure adapted to be set into the said opening, and form an integral part of the wall, comprising a cast shell having side walls fitting in said opening and formed to receive a window frame, and a bottom wall having its forward portion projecting into the opening and forming a window sill.

1,695,811. MAGAZINE FILTER. FRED W. MANNING, Berkeley, Calif., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 1, 1925. Serial No. 59,787. 4 Claims. (Cl. 210—197.)



1. In a filter, an enclosed chamber containing a filter wall in the form of a belt, a supply spool and a storage spool for the belt, an endless flexible drainage member forming a support for the belt between said spools, and a frame supporting said drainage member and pivoted to move between and toward and from the spools.

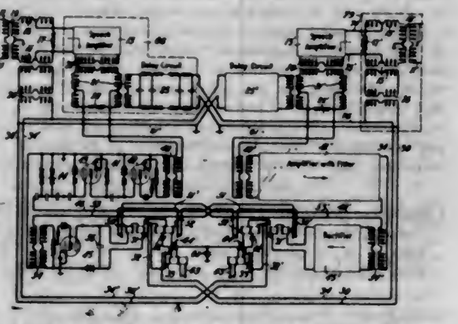
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1,695,812. REFRACTORY CEMENT. JOHN WESLEY MARDEN, East Orange, and HENRY KNEELAND RICHARDSON, Newark, N. J., assignors to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed June 25, 1923. Serial No. 647,744. 4 Claims. (Cl. 106—9.)

1. A composition of matter comprising thoria, a double halide salt adapted to act as a binder and suspender of said thoria upon the addition of a liquid and a dry ingredient adapted to precipitate any colloids present in the composition and cause them to coagulate.

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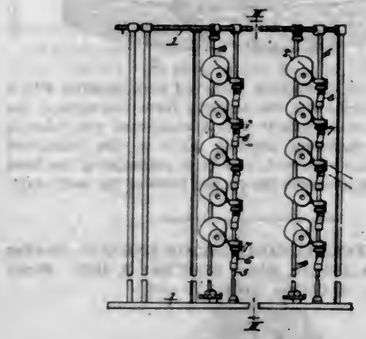
1,695,813. ELECTRIC-CURRENT TRANSMISSION. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1923. Serial No. 667,437. 38 Claims. (Cl. 178—44.)



2. In a signal transmission system, a signal transmission path comprising a normally closed switch contact in that condition directly reducing the transmission efficiency of the path, and means for translating received signaling variations into mechanical movement, and for directly mechanically employing the initial movement so produced, at its inception, to open said switch contact.



1,695,814. YARN-COMPENSATING DEVICE FOR CREELS. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Nov. 11, 1925. Serial No. 68,367. 2 Claims. (Cl. 242—131.)



1. A yarn supply, a yarn tension device located below the yarn supply and a vertically disposed rod around which the yarn is wrapped at least once as it passes from the yarn supply to the tension device, said rod operating to keep the yarn comparatively taut when the yarn is running and at rest, thereby tending to take out the kinks when running and to keep the yarn from kinking when at rest.

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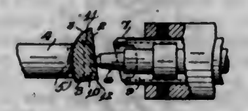
1,695,815. COLLAR FASTENER. ELWOOD BURTON NEWELL, Grand Rapids, Mich. Filed Jan. 14, 1928. Serial No. 246,691. 5 Claims. (Cl. 24—87.)



1. A collar comprising a neck band and a turned-over outer flap provided with keepers having their ends secured on the inner side of the adjacent edge portions respectively of the flap and having middle portions movable relatively to their secured ends into substantially the same plane by means for connecting said edge portions comprising hook members adapted to removably engage the middle portions of the keepers respectively.

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1,695,816. PRODUCTION OR MANUFACTURE OF DISKS OR BLANKS FOR BUTTONS OR THE LIKE FROM IRREGULARLY-SHAPED PIECES OF MATERIAL. HENRY T. NOYES and RICHARD STANFORTH, Rochester, N. Y., assignors to Art in Buttons Incorporated, Rochester, N. Y., a Corporation of New York. Filed Dec. 29, 1922. Serial No. 609,707. 33 Claims. (Cl. 79—1.)



1. In a method of producing disks, buttons, or the like from irregularly shaped nut pieces, each having a skin surface thereon, the steps which consist in establishing a base plane roughly parallel to the skin side of each nut piece, severing from each irregularly shaped nut piece a blank having substantially circular characteristics and diameters of different lengths and still retaining the skin side, during such severing providing on the blank a finished button face on the side opposite the skin side, and, while maintaining diameters of different lengths in the blank, providing by a separate operation a finished button face on that side of the blank having the skin side.

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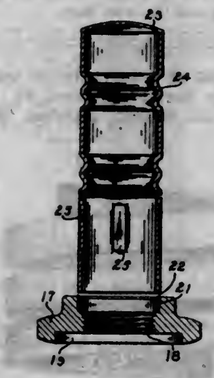
1,695,817. PRODUCTION OR MANUFACTURE OF DISKS OR BLANKS FOR BUTTONS OR THE LIKE FROM IRREGULARLY-SHAPED PIECES OF MATERIAL. HENRY T. NOYES, Rochester, N. Y., assignor to Art in Buttons Incorporated, Rochester, N. Y., a Corporation of New York. Filed Dec. 29, 1922. Serial No. 609,715. 22 Claims. (Cl. 79—1.)



1. In a method of producing disks, or blanks for buttons, or the like, from irregularly shaped material, the steps which consist in severing from such material, pieces having substantially regular and cylindrical characteristics but with more or less incomplete cylindrical edges, separating such cylindrical pieces with incomplete cylindrical edges from those having complete cylindrical edges and recutting said cylindrical pieces with incomplete cylindrical edges to provide cylindrical pieces having complete cylindrical edges, the circumference of each of which will substantially intersect the edge of the incomplete piece from which it is formed at the point of the smallest diameter of such piece.

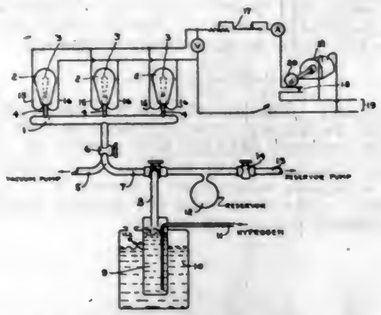
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1,695,818. DUST CAP FOR TIRE VALVES. ERASTUS G. OAKLEY, Southport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn. Filed July 9, 1924. Serial No. 725,076. 5 Claims. (Cl. 152—12.)



1. In combination, a valve stem, a resilient metal dust cap adapted to be placed thereon, the wall of said dust cap being depressed inwardly to provide non-resilient ribs projecting beyond the inner wall of the cap, said ribs being adapted to engage the valve stem and to distort the cap from its normal shape and thereby cause it to grip the stem, and a rim nut provided with an upwardly facing recess to receive the lower edge of the valve cap and urge it to its normal shape.

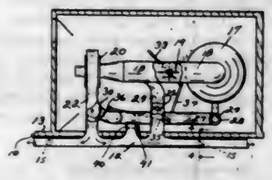
1,695,819. ACTIVATION OF FILAMENTS. GEORGE DEAN O'NEILL, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Apr. 1, 1927. Serial No. 180,252. 13 Claims. (Cl. 250—27.5.)



1. Method of activating thoriated tungsten filaments comprising intermittently incandescing said filaments in a carbon bearing atmosphere.

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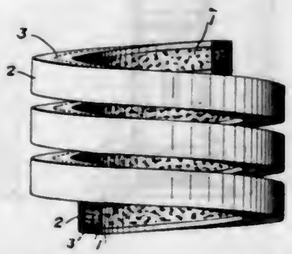
1,695,820. FORCED-VENTILATION SYSTEM. THOMAS JOSEPH POWER, Milwaukee, Wis. Filed June 29, 1925. Serial No. 40,233. 11 Claims. (Cl. 98—33.)



1. A ventilating system adapted for alternately delivering air into an apartment and withdrawing it therefrom, comprising the combination of an air forcing device having valved inlet and outlet ducts, a branch duct connected with said outlet duct, a main duct also connected with the outlet duct and a valved cross connection between the main duct and the inlet duct.

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1,695,821. PACKING AND METHOD OF MAKING THE SAME. CLEMENT RESTEIN, Hatboro, Pa. Filed Mar. 18, 1924. Serial No. 700,182. 2 Claims. (Cl. 154—2.)



1. Means for imparting curved form to a packing consisting of a cork strip and a flexible channeled strip hugging the cork strip on three sides which comprise a line of stitching extending through both the cork strip and the confronting walls of the channeled strip whereby circular form can be imparted to the cork strip even in dry condition, and a vulcanizable component for the channeled strip whereby it can be set in curved form to hold the cork strip in the curved form imparted to it.

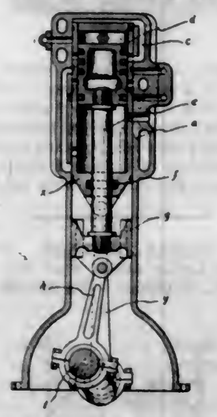
1,695,822. PACKING AND METHOD OF MAKING THE SAME. CLEMENT RESTEIN, Hatboro, Pa. Filed Mar. 18, 1924. Serial No. 700,183. 2 Claims. (Cl. 154—2.)



2. The method of making a curved cork packing which consists in distributing the bending force throughout the cork strip by reinforcing it with a connected vulcanizable flexible strip, applying bending force to the connected strips in the plane thereof, and then vulcanizing the bent flexible strips to preserve the curved form of the cork strip.

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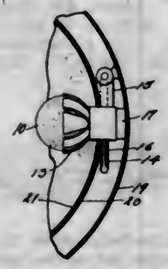
1,695,823. INTERNAL-COMBUSTION ENGINE. ROBERT A. REYNOLDS, Detroit, Mich. Filed Mar. 3, 1927. Serial No. 172,493. 6 Claims. (Cl. 123—50.)



1. In an internal combustion engine, the combination of a cylinder, a closed end sleeve and piston reciprocating in the cylinder at different speeds, the cylinder and sleeve provided with ports and by-passes arranged without valve control to take in a charge of air adjacent one end of the sleeve and a charge of fuel mixture adjacent the other end of the sleeve to compress one of these charges and by-pass the same into the combustion chamber to expel the burnt gases and by-pass the other charge into the combustion chamber to mix with the first-mentioned charge, and then compress the intermingled charges, fire the same and complete a two-cycle of operation.

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1,695,824. DIMMING HEADLIGHTS FOR AUTOMOBILES. JOHN ROCHE, Hoboken, N. J. Filed Mar. 3, 1928. Serial No. 258,710. 3 Claims. (Cl. 240—45.)



1. In a motor vehicle head light; a reflector; an electric lamp mounted at the center of said reflector, the bulb



of said lamp being partially coated with a light modifying substance; a shield for covering and uncovering the transparent portions of said bulb; an armature adapted to revolve said shield upon its axis; and a solenoid for operating said armature.

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1,695,825. ELECTRIC FUSE. JULIUS SCHÜRMANN, Berlin-Zehlendorf, Germany. Filed Nov. 2, 1926, Serial No. 145,792, and in Germany Feb. 24, 1925. 1 Claim. (Cl. 102—10.)



In an electric fuse of the type described, the combination with a non-combustible mass practically enclosing the inflammable fuse parts, of non-inflammable, non-combustible insulation enclosing the fuse-wires, a non-inflammable strip leading to and supporting the ignitible initial charge, conducting coatings covering the sides of said strip, and a conductor between said conducting coatings.

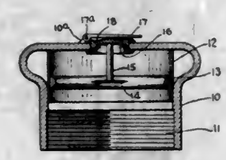
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1,695,826. UMBRELLA. FRANK E. SINCERE, Mount Vernon, N. Y. Filed June 6, 1922. Serial No. 566,402. 6 Claims. (Cl. 135—20.)



6. An umbrella of the class described comprising, in combination, a stick, a top constructed by a plurality of gores united along their adjacent edges, and having metallic ribs disposed therein along the line of union of said gores, the inner ends of said ribs being angularly bent, a plurality of stretchers having one end mounted in a runner on said stick, the other end being attached to said ribs, reinforcing members disposed on either face of said top, and centrally thereof, and a flared collar disposed on said stick and having a portion lying in contact with one of said reinforcing members and another portion engaging the bent ends of said ribs whereby to prevent the movement of said top along said stick.

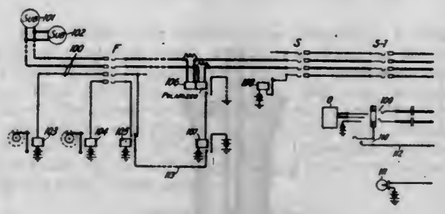
1,695,827. SIGNAL DEVICE. HARRY E. SIPE, New York, N. Y. Filed Dec. 1, 1927. Serial No. 236,954. 7 Claims. (Cl. 116—114.2.)



1. A signal device for radiator caps, said cap having a chamber opening into the chamber of the radiator and said device comprising a bimetallic member arranged in said chamber in a plane transversing the axis of said cap and actuated by the temperature conditions existing in the chamber of the radiator and extending into the chamber of said cap, a signal element in operative connection with said bimetallic member whereby when said member is exposed to predetermined degrees of heat, said signal element will be moved into operative position, the coupling of said element with said member being such as to automatically return the signal element into inoperative position when the temperature in said chambers is lowered, said signal element involving a member slidably engaging said radiator cap and means for forming a seal around said sliding member, said bimetallic member constituting a striplike body, and means involving a tube inserted into the cap for supporting one end of said striplike body.

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1,695,828. TELEPHONE-EXCHANGE SYSTEM. RAY L. STOKELY, Floral Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1927. Serial No. 205,541. 5 Claims. (Cl. 179—10.)



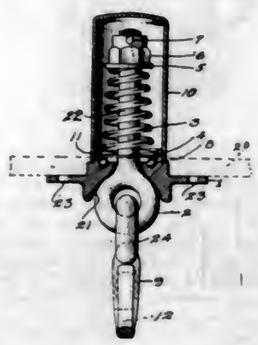
1. In a telephone system, a party line, a message register for each party, a revertive ringing machine, selector switches controlled by a subscriber on the party line for seizing said machine when a revertive call is made, an operator's position, means for signaling the operator if a connection is extended to said machine, and means controlled by the operator for selectively operating said message registers.

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1,695,829. SUSPENSION DEVICE FOR PUNCHING BAGS. JOSEPH THEODORE TAUDVIN, New York, N. Y. Filed Oct. 21, 1926. Serial No. 143,285. 2 Claims. (Cl. 272—78.)

2. In combination, in a suspension for a rope suspended punching bag, a support, an axially movable rope suspending swivel-pin rotative on said support, and a spring disposed resiliently to restrain axial movement of said pin engendered by blows on said bag, a ball race on said sup-

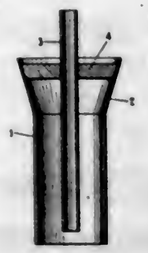
port, a bearing washer resting on ball bearings in said race, said pin passing through said washer, a retaining washer, said spring disposed between said two washers



and resting on said bearing washers and comprising a helix through which said pin passes, and a nut threaded on said pin outside said retaining washer.

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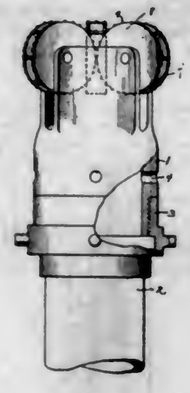
1,695,830. JOINT AND CONNECTION. GUY THÉODORE THURNEYSSEN, Paris, France. Filed Oct. 25, 1924, Serial No. 745,731, and in France Oct. 27, 1923. 4 Claims. (Cl. 49—92.)



1. In combination, a hollow metallic member having an enlarged portion with comparatively thin walls, a glass member of smaller external diameter than the internal diameter of said metallic member, an annular member of glass secured to said glass member and means for hermetically securing said annular glass member in the enlarged portion of said metallic member.

4. In a hermetically sealed vessel, a metallic member having a conical portion, an enamel coating applied to said conical portion and a cover plate fused to said enamel coating.

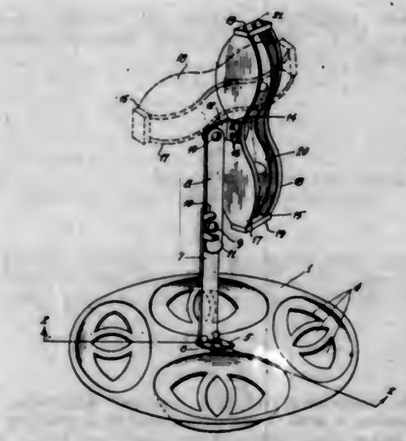
1,695,831. PIPE-CLEANING DEVICE. LEE R. TITCOMB, Brooklyn, and HARRY S. ASHMUN, New York, N. Y. Filed July 7, 1926. Serial No. 120,974. 5 Claims. (Cl. 15—104.12.)



3. A pipe cleaning device comprising a nozzle having a plurality of paddle wheels associated with the front end thereof, the said nozzle being adapted to have a body of water forced through and out therefrom, the said nozzle being open adjacent the inner peripheries of the said paddle wheels.

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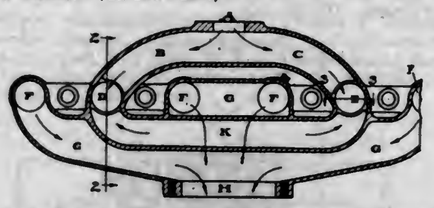
1,695,832. EGG BOILER. HEINRICH HUBERT WEBER, Maspeth, N. Y. Filed Feb. 29, 1928. Serial No. 257,997. 3 Claims. (Cl. 53—1.)



2. An egg boiler embodying a plate provided with depressions therein forming seats for eggs, an hour-glass, a holder for said hour-glass a toggle embodying links pivoted together at the elbow of the toggle, means for pivotally connecting one terminal of the toggle to the center of the plate, and means for pivotally connecting the other end of the toggle to the hour-glass holder.



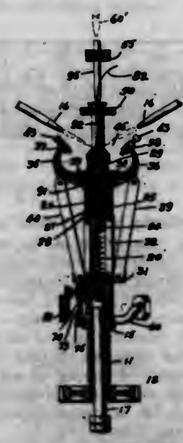
1,695,833. VAPORIZER. GEORGE R. WELCH, Detroit, Mich., assignor, by mesne assignments, to Handy Governor Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 25, 1924. Serial No. 694,995. 5 Claims. (Cl. 123—122.)



1. A vaporizer for a multicylinder internal combustion engine having external carbureting means, comprising a mixture entrance, an inlet manifold in the form of a loop, comprising an upper portion with which said mixture entrance communicates, a substantially horizontal lower portion into which liquid fuel is adapted to drain by gravity and in which the fuel mixture will oscillate, an exhaust manifold in heat relation with the lower portion of said manifold for vaporizing the fuel therein, a plurality of mixture outlets from said loop manifold located below said mixture entrance and above said heating passage.

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1,695,834. MACHINE FOR MANUFACTURING STEMS FOR TIPLESS LAMPS. JAMES BRYANT WHITMORE, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Apr. 9, 1924. Serial No. 705,322. 6 Claims. (Cl. 49—2.)

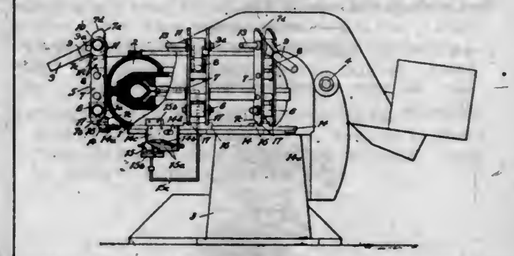


2. In an apparatus for the manufacture of incandescent lamp stems, the combination of a pair of arbor-holding jaws, a pair of flare-holding jaws, a temporary support for the arbor, the faces of the arbor-holding jaws having oppositely disposed grooves whereby the jaws, when closed, provide pockets to receive the ends of lead wires, and means for consolidating the work-parts to form a stem.

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1,695,835. VULCANIZING APPARATUS. HARRY WILLSHAW, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Mar. 16, 1927, Serial No. 175,749, and in Great Britain Mar. 22, 1926. 3 Claims. (Cl. 18—17.)

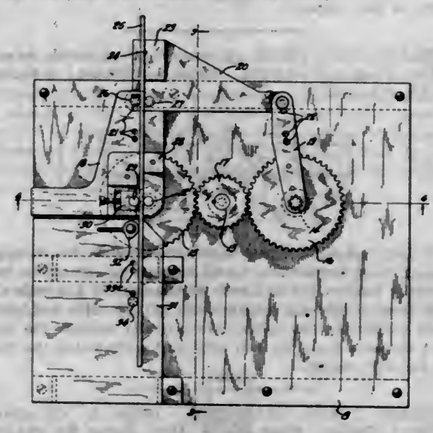
1. Vulcanizing apparatus of the character described including coacting mold chests one of which is movable relatively to the other, a valve operative to control the supply of fluid pressure to an inflatable member within the mold chests, actuating means for said valve, a locking member swingably mounted on one of said mold chests and carrying a clamping member adapted to coact with the other mold chest and co-operating parts carried by said



locking member and by said valve operating member whereby the actuation of one is dependent upon the position of the other.

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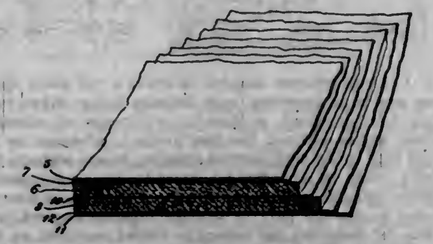
1,695,836. MACHINE FOR BENDING BARS. VICTOR M. WITMER, Milwaukee, Wis. Filed Jan. 10, 1927. Serial No. 160,226. 5 Claims. (Cl. 153—20.)



1. A machine for bending bars, comprising a base, a pair of connected gears revolubly mounted on the base, a lever secured to each of said gears, an intermediate lever pivotally connected with each of said first mentioned levers, the intermediate lever and one of the other levers being formed with guide means to receive a bar, and means on said levers to engage a bar at intermediate points to bend said bar at said engaged points when said levers are moved from normal position.

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1,695,837. BOX-BOARD OR CADDY STOCK. JAMES M. ANDREWS, Brooklyn, N. Y., assignor to Robert Gair Company, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1928. Serial No. 659,179. 7 Claims. (Cl. 154—45.9.)



3. In a stock for containers, in combination, a layer of kraft, a layer of chip cemented to the layer of kraft by

silicate of soda, a layer of news cemented to the layer of chip by silicate of soda, and a lining of hydrated highly calendered inelastic paper secured to the layer of news by flour paste having gum therein.
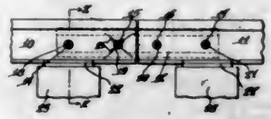
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1,695,838. TEMPERATURE-INDICATING MECHANISM. STANLEY FORSYTH BARKER, Chicago, Ill. Filed Sept. 20, 1921. Serial No. 501,938. 6 Claims. (Cl. 116—114.)



1. In a temperature indicating mechanism, a thermostatic element, a housing therefor, a vertically reciprocal signal in said housing, and a plurality of levers intermediate said signal and said element whereby the movement of said element is translated into a vertical displacement of said signal.

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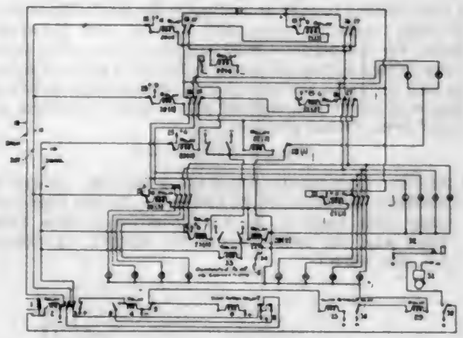
1,695,839. RAIL JOINT. EUGENE W. CARUTHERS, Secane, Pa. Filed July 26, 1928. Serial No. 295,401. 5 Claims. (Cl. 238—243.)



5. In a rail joint, a pair of rail ends, splice bars on opposite sides of these ends, a bolt supporting the splice bars laterally against the rail ends at the ends of the rails and free from transverse engagement by the rails and other bolts supporting the splice bars laterally against the rails at a distance from the rail ends and with which the rails tensionally engage.

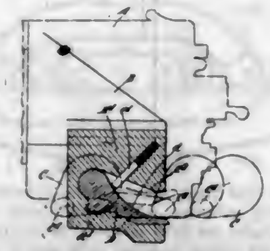
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1,695,840. CALL SELECTOR. LOUIS L. CHAUVEAU, Paris, France. Filed Jan. 8, 1923, Serial No. 611,538, and in France Jan. 19, 1922. 9 Claims. (Cl. 177—353.)



1. In a call selector adapted to select a call made up of from one to $n$ impulses, each impulse being either relatively long or short, a plurality of groups of selecting means, means whereby the first group is arranged to respond only to the first received impulse, means whereby the second group is arranged to respond only to the second received impulse, and means whereby the $n$th group is arranged to respond only to the $n$th impulse received, and means for restoring the system to initial condition on the receipt of the $n+1$ impulse within a predetermined time after the termination of the $n$th impulse.

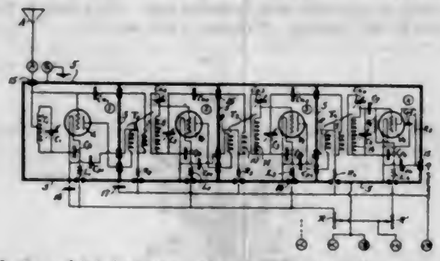
1,695,841. BREECH-LOADING ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Aug. 25, 1926, Serial No. 131,491, and in Great Britain Sept. 16, 1925. 8 Claims. (Cl. 89—4.)



1. In breech-loading ordnance of the semiautomatic type, a cradle for the gun, breech-actuating mechanism therefor, a crank connected to said mechanism, and means on said cradle and on said crank for giving said crank an initially slow and gentle opening movement, a gradually increasing angular acceleration, and a final high rate of angular movement, as and for the purposes specified.

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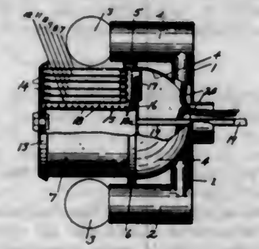
1,695,842. WAVE SIGNALING SYSTEM. JOHN F. DREYER, Jr., Brooklyn, N. Y., assignor to Hazeltine Corporation, a Corporation of Delaware. Filed Feb. 23, 1927. Serial No. 170,179. 5 Claims. (Cl. 179—171.)



2. In a high-frequency vacuum tube amplifier comprising more than two stages, means for coupling the first stage thereof to an antenna system, said first stage being designed to tune sharply to all frequencies within a predetermined band, individual means for tuning said first stage, means for successively coupling a plurality of the remaining stages in cascade, each of said plurality of remaining stages being designed to tune broadly (as compared to the sharpness of tuning of said first stage) at all of the frequencies within said predetermined band, and uni-controlled means for tuning simultaneously all of said plurality of remaining stages.

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1,695,843. SIGNAL ARM FOR VEHICLES. MADISON L. GOFF, Los Angeles, Calif. Filed Dec. 7, 1925. Serial No. 73,940. 11 Claims. (Cl. 116—39.)



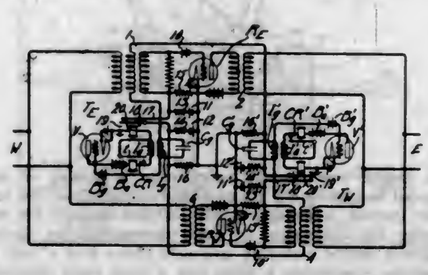
1. A signal arm adapted to be extended longitudinally and including a series of telescoping tubular members,



pneumatic means for intermittently extending the same at will, and lighting means adjacent and on the outside of said signal arm for illuminating the same from the outside.

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1,695,844. SIGNALING SYSTEM. WILLIAM S. GORTON, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 21, 1923. Serial No. 658,514. 14 Claims. (Cl. 179—170.)



1. In a signaling system comprising a current transmission path and a circuit-controlling device therefor having movable operating parts of substantial inertia, the method of operation of said system which comprises causing said parts to so move in response to flow of signaling current in said path as to make the operation of said device substantially independent of said inertia, and increasing the transmitting efficiency of said path immediately upon the operation of said circuit-controlling device.

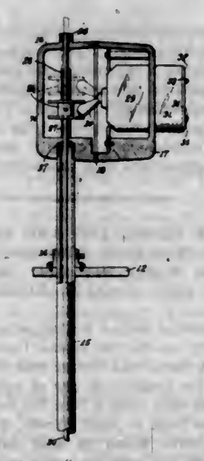
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1,695,845. ALLOY BASE FOR OXIDE-COATED CATHODES. GEORGE W. HALLOCK, Bloomfield, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Oct. 27, 1927. Serial No. 229,276. 4 Claims. (Cl. 250—27.5.)

1. An electrically conductive core for a thermionically active cathode comprising an alloy of nickel and silicon.

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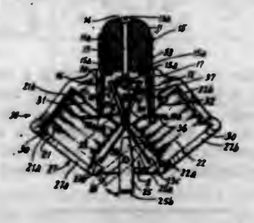
1,695,846. LIQUID-LEVEL CONTROL. LEONARD H. HARDING, Brooklyn, N. Y. Filed Sept. 21, 1926. Serial No. 136,782. 2 Claims. (Cl. 200—84.)



1. A liquid level control device comprising a casing, a height adjustable tube supporting the casing, a rod passing through said casing and tube packings in said casing for the tube, a snap switch in said casing, said switch having an oscillatable control lever, a flanged spool on said rod engaging said lever, adjustable stops on the lower exposed portion of said rod, a sleeve slidable on said rod to engage said stops and a float fixed intermediate the lengths of said sleeve.

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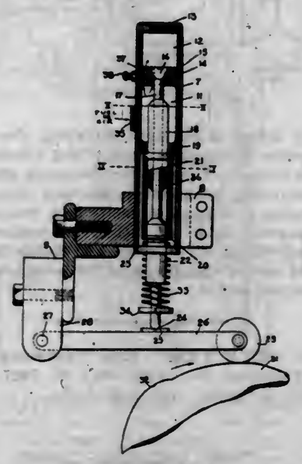
1,695,847. DETACHABLE ELECTRIC-PLUG FITTING. HARRY HERTZBERG, Brooklyn, N. Y., assignor to Morris Propp, New York, N. Y. Filed Aug. 11, 1926. Serial No. 128,544. 1 Claim. (Cl. 173—336.)



In an electric fitting, spaced current carrying receptacles, an electric switching mechanism mounted between said receptacles, said mechanism comprising a looped member having spring contact ends, each end being normally spaced from one of said receptacles, and a pair of levers positioned between said ends arranged so that each lever may be independently operated to flex one of said ends for contacting with a receptacle.

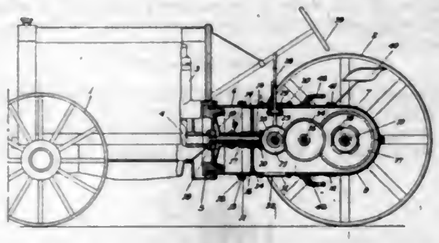
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1,695,848. GAS ECONOMIZER. JOHN JOSEPH HIGGINS, East Orange, N. J., assignor to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Nov. 1, 1924. Serial No. 747,263. 4 Claims. (Cl. 251—132.)



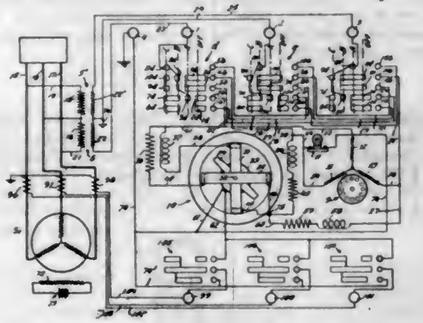
1. A fuel control device comprising a tubular member, a partition dividing said member to provide an inlet chamber and an outlet chamber, a valve seat in said partition, a valve stem within said member, a valve head on said stem for engagement with said valve seat, means for normally maintaining said head in contact with said seat, means for automatically lifting said head, a guide for said stem extending from said inlet chamber, means surrounding an end of said guide and a portion of said stem for sealing said inlet chamber from the atmosphere.

1,695,849. REVERSIBLE TRACTOR TRANSMISSION. BIRDDINE T. INSLEY, Stockton, Calif. Filed Aug. 2, 1927. Serial No. 210,053. 6 Claims. (Cl. 180—70.)



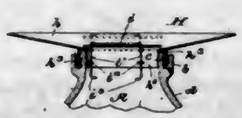
1. In a tractor, a power plant having a crank shaft, a rear wheel axle, a transmission mechanism from the crankshaft to the axle, and a housing in which said mechanism and axle are mounted arranged to be invertedly mounted in connection with the power plant without disturbing the positioning of the crank shaft and axle relative to each other.

1,695,850. PHASE INDICATOR AND METHOD OF DETERMINING THE PHASE RELATION OF ALTERNATING CURRENTS. WILLARD A. KATES, Philadelphia, Pa. Filed June 17, 1927. Serial No. 199,445. 14 Claims. (Cl. 172—245.)



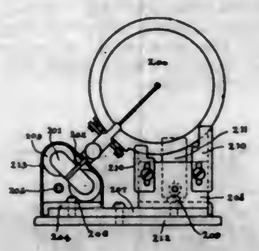
7. In a device of the type described, the combination with a source of polyphase current and a second source of polyphase current, of means for indicating phase rotation, means electrically connected to the said indicating means for producing a rotating magnetic field, means responsive to this magnetic field, and including a magnetizable vane and a magnetizing coil therefor, and means for selectively connecting each of the phases of the second source to said last mentioned means.

1,695,851. SCUM TRAP. CARL CHRISTOPH EMIL KERSTEN, Columbus, Ga. Filed May 28, 1927. Serial No. 195,126. 8 Claims. (Cl. 215—100.)



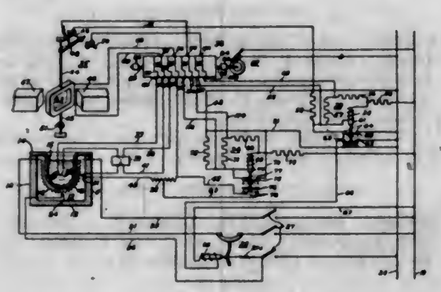
1. A scum-trap comprising an inwardly and downwardly sloping substantially conical plate formed with a central opening and inclined to a horizontal plane at an angle of substantially 15° or less, in combination with two substantially concentric vertical flanges extending downwardly from said conical plate, the slope of the plate extending to the central opening.

1,695,852. RADIO-PHONOGRAPH COMBINATION. WARD LEATHERS, Haworth, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed May 3, 1922. Serial No. 558,208. 1 Claim. (Cl. 179—100.1.)



A sound reproducing instrument comprising a base adapted to rest on the frame of a phonograph or the turn table thereof, adjustable means carried thereby for supporting the reproducer of such phonograph, an electromagnetic device including two pole pieces and a coil, an armature comprising a plate and a stem rigid therewith adapted to be clamped in place of the usual stylus by the stylus clamping means of the reproducer, and means for adjusting the distance between said pole pieces and the plate.

1,695,853. TEMPERATURE-CONTROL SYSTEM. ROLLO B. LINCOLN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 3, 1927. Serial No. 188,601. 9 Claims. (Cl. 236—15.)



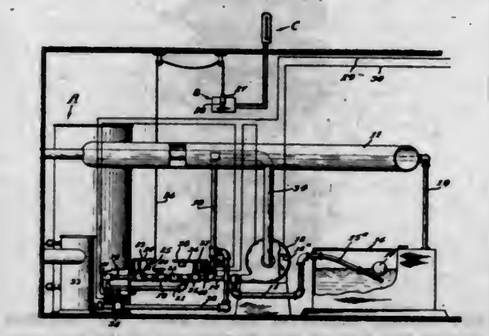
1. In a temperature control system, the combination with a medium, a heating means therefor, a body disposed in the medium to be heated, a thermo-couple subjected to the temperature of the medium and means actuable thereby for controlling the energization of the heating means, of means responsive to the temperature of the body for varying the resistance of a thermo-couple circuit when said body departs from a temperature of a predetermined value.

1,695,854. GAS PRODUCING AND HEATING APPLIANCE. JOHN MACKENZIE, Minneapolis, Minn., assignor of one-half to Walter Heynacher, Minneapolis, Minn. Filed May 22, 1925. Serial No. 32,125. 6 Claims. (Cl. 158—4.5.)

1. The combination with a heater, of a burner within the heater, a blower, an electric motor for driving the same, air pipes leading from said blower and dividing the output thereof, a tank for liquid fuel, one of said air pipe issuing into the liquid in said tank, a lead for conducting carbureted air from said tank to said burner, an electrically controlled safety valve fitted in said carbureted air lead and connected in the motor circuit, said valve being required to be opened manually, but adapted automatically to be held open during the maintenance of current in said circuit and automatically to close upon the interruption of

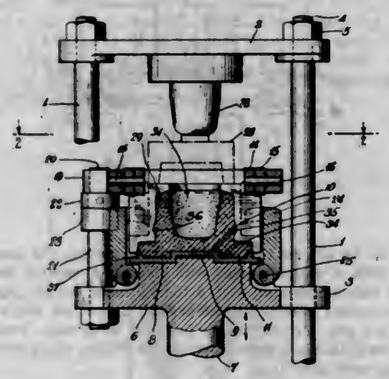


such current, the other of said air pipes being connected with said carbureted air lead at a point between said valve and burner, a check valve in the carbureted air lead between the safety valve and the junction of said second air pipe with said carbureted air lead, said check valve acting to permit only of the flow therethrough of carbureted air toward the



burner, a pilot lead taking off from the carbureted air lead at a point between the safety valve and said check valve, a cut-off valve fitted in the carbureted air lead between the burner and the junction of said second air pipe with said carbureted air lead, and means for opening and closing said cut-off valve to put the burner into and out of operation.

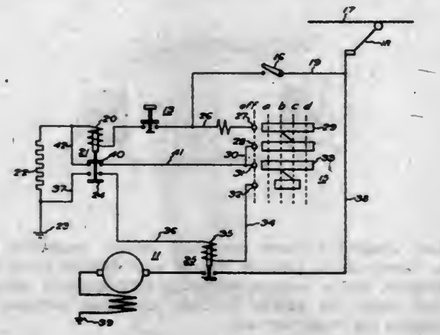
1,695,855. APPARATUS FOR MARKING PIPES. WILLIAM D. MOORE, JOSEPH B. LORING, and WILLIAM J. BOWERS, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y., a Corporation of Delaware. Filed June 3, 1926. Serial No. 113,411. 13 Claims. (Cl. 22—10.)



1. A mold for head cores for the bell ends of cast pipes of the bell and spigot type, including a hollow mold contoured to form at one end of the head core an annular marginal rib with a selected design on the face adjacent to the core, the mold sectional, the sections, relatively movable, means to impart relative movement to the sections to compress the rib, and independent means to move the sections apart to partially release the matrix from the design.

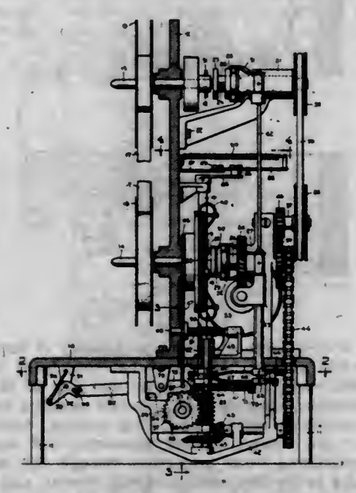
1,695,856. CONTROL SYSTEM. AMOS ALBERT PONSONBY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 21, 1927. Serial No. 169,964. 4 Claims. (Cl. 172—179.)

1. In a control system for a vehicle provided with a propelling motor, in combination, a line switch for controlling the operation of the motor, a line-switch-actuating circuit for operating the line switch, a drum for controlling the energization of the line-switch-actuating circuit, a relay disposed for interrupting the line-



switch-actuating circuit, an actuating circuit for the relay, a safety switch for controlling the relay-actuating circuit, and a shunt connected to prevent the energization of the relay-actuating circuit by the closure of the safety switch when the drum is in an active position.

1,695,857. FILM-REVERSING MECHANISM. BARTON A. PROCTOR, New York, N. Y., assignor, by mesne assignments, to The Automatic Advertiser, Incorporated, New York, N. Y., a Corporation of Delaware. Filed July 25, 1925. Serial No. 45,963. 38 Claims. (Cl. 242—55.)

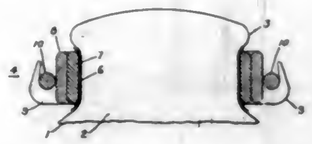


1. In mechanism for winding and rewinding film reels, actuating means for reversing the direction of winding, said means comprising two members constantly moving at different rates of speed, one of which initiates said reversal and the other of which controls the time intervals of said initiation.

1,695,858. INSULATOR. FRANZ REITER, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 14, 1925, Serial No. 69,054, and in Germany Jan. 28, 1925. 3 Claims. (Cl. 173—313.)

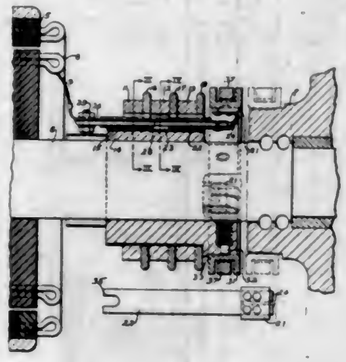
3. An insulator comprising a dielectric member including a body portion having a portion projecting there-

from and a portion projecting laterally from said projecting portion, and a composite structure including a divided inner ring element surrounding said first projecting portion, an outer element having a single integral ring portion adapted to pass over said lateral projection and to closely fit in position around said divided inner ring element, and a member extending longitudinally between said rings and having laterally extending portions for holding the rings together.



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1,695,859. SLIP-RING ASSEMBLY WITH SHORT-CIRCUITING CONTACT. HANS RICHTER, Behringersdorf, near Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 1, 1926, Serial No. 138,911, and in Germany Oct. 8, 1925. 3 Claims. (Cl. 172—280.)

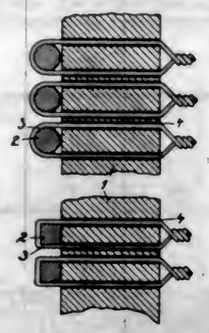


1. An electric machine having a plurality of slip-rings, a supporting member therefor, conducting leads for the several slip-rings, all extending to one side of the supporting member, short-circuiting contact members disposed at the other side of the supporting member, conducting leads for the several contact members, said last-mentioned conducting leads projecting through the supporting member to the first-mentioned side thereof, and means for removably connecting the slip-ring leads to the respective contact leads at said first-mentioned side of the supporting member.

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1,695,860. ELECTRIC ANNEALING OR HEATING FURNACE. WILHELM ROHN, Hanau-on-the-Main, Germany, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, a Corporation of Germany. Filed Oct. 23, 1925, Serial No. 64,350, and in Germany Dec. 15, 1924. 2 Claims. (Cl. 266—1.5.)

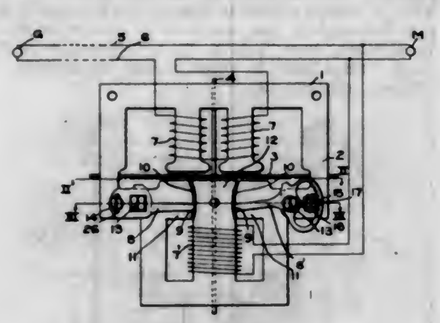
1. In an electric annealing furnace, a heating element therein comprising a plurality of convolutions of electrical resistance material of such dimensions that the total surface area of the element is at least as great as the area of the furnace chamber walls, means for supporting said element in operative position within said furnace comprising wires of metallic refractory material looped over



said heating element at spaced points and extending through the wall of said furnace and means for maintaining said wires in operative position.

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1,695,861. ELECTRICAL MEASURING INSTRUMENT. ARGYLE R. RUTTER, Forest Hills, and WALTER G. MYLIUS, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 29, 1927. Serial No. 216,292. 2 Claims. (Cl. 171—264.)



1. In an alternating-current-motor meter, the combination with a magnetisable core having a central member and a side member separated therefrom by an air gap, of a closed-circuit conductor comprising a portion movable in said air gap, an extension integral with said conductor and constituting a gear rack, and a pinion operatively engaging said gear rack.

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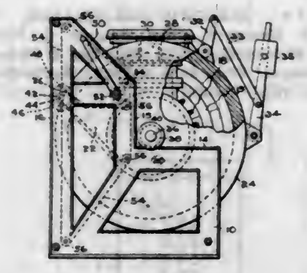
1,695,862. SLOT INSULATING CELL. MICHAEL SANDFIELD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 16, 1926. Serial No. 135,839. 3 Claims. (Cl. 171—206.)



1. A slot cell comprising a rectangular sheet of insulating material having two longitudinal bends forming the bottom of the cell and having end bends forming inwardly bent flaps which are wider at the bottom than at the tops.



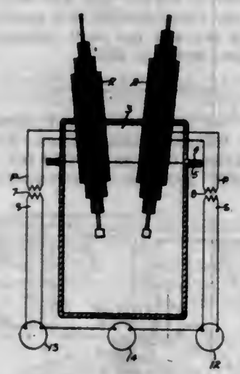
1,695,863. TILTABLE FURNACE. GEORG SCHMITT, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 16, 1927, Serial No. 168,591, and in Germany Apr. 20, 1926. 2 Claims. (Cl. 263—32.)



1. In a tiltable furnace, a base comprising spaced vertical members, a horizontally disposed bearing surface and a vertically disposed guiding surface formed on each of said members, a cylindrical furnace casing disposed between said spaced members, means carried by said casing on a horizontal line extending through the center of gravity thereof for supporting said casing upon said horisontally disposed bearing surfaces, means carried by said casing for engagement with said guiding surfaces, and means for tilting said casing about the center of gravity thereof.

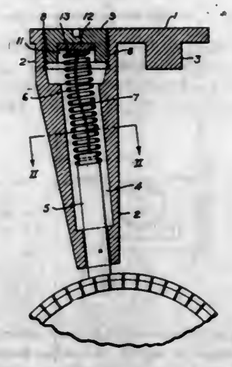
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1,695,864. INSTRUMENT-TRANSFORMER MOUNTING. JOHANNES SESSINGHAUS, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 23, 1926, Serial No. 104,113, and in Germany Oct. 27, 1925. 4 Claims. (Cl. 175—358.)



1. The combination with a circuit interrupter casing comprising a tank, condenser terminal bushings on said tank and an instrument, transformer mounted on the tank and having its primary winding connected across layers of a terminal bushing.

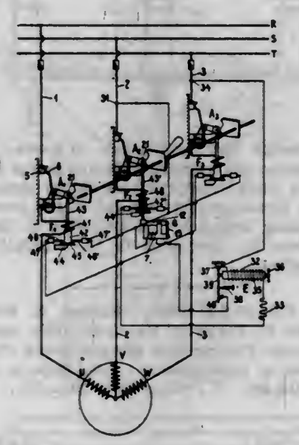
1,695,865. BRUSH HOLDER. HANS C. SPECHT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 10, 1927. Serial No. 174,107. 4 Claims. (Cl. 171—324.)



1. In a dynamo-electric machine, a machine frame having a plurality of openings therein, and a brush-holding device removably mounted in the said frame and having a plurality of projections arranged to fit in the said openings, whereby the device is maintained in any one of a plurality of positions.

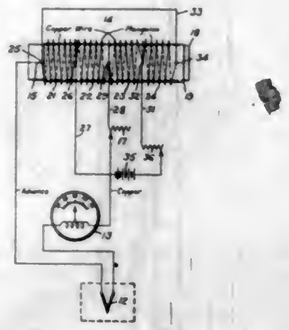
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1,695,866. AUTOMATIC SAFETY SWITCH FOR INDUCTION MOTORS. GOTTLIEB SPEISER, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y., a Corporation. Filed Aug. 1, 1925, Serial No. 47,611, and in Germany Feb. 5, 1924. 1 Claim. (Cl. 175—294.)



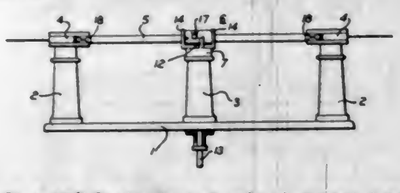
In an automatic switch of the class described, tripping mechanism, an electromagnet arranged to operate said tripping mechanism upon heavy overloads, contact members associated with said electromagnet, means including said electromagnet for operating said contact members at a lower current value than that required to operate the tripping mechanism, comprising a retarded relay connected to said contact members and a low-voltage magnet operated by said retarded relay and operative to control said tripping mechanism.

1,695,867. TEMPERATURE-MEASURING DEVICE. FERNALD S. STICKNEY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 6, 1927. Serial No. 181,317. 10 Claims. (Cl. 73—32.)



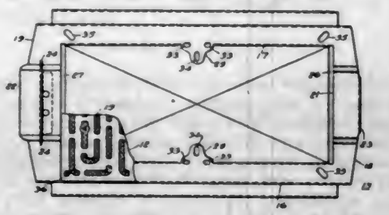
1. A temperature-measuring instrument comprising a Wheatstone bridge in which the sides have resistance elements of high and low temperature coefficients of resistance, respectively, a source of E. M. F. connected between two points of the bridge, a thermo-couple having its cold-junction connected to the bridge, an electrical instrument connected in circuit with the thermo-couple, and heat-storage means thermally associated with the bridge for rendering changes in temperature of the cold junction and the bridge sluggish.

1,695,868. DISCONNECTING SWITCH. JOSEPH STOLZ, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 1, 1925, Serial No. 59,844, and in Germany Nov. 1, 1924. 6 Claims. (Cl. 200—48.)



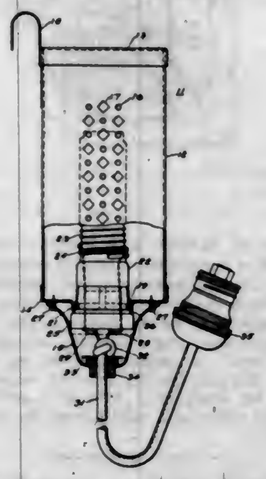
1. In a switch structure, a pair of contact jaws, an axially rotatable contact member having means for spreading the jaws when axially rotated during opening movement and a pivotal support for one of the contact members comprising means for turning one of the contact members about its axis prior to the separation of the contact members.

1,695,869. HEATING UNIT. ERNEST E. SUTHERLAND and FRANK F. FORSHEE, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 9, 1927. Serial No. 218,405. 3 Claims. (Cl. 219—37.)



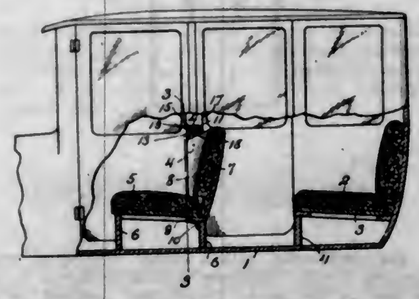
1. An electric heating unit comprising a sheet-metal base plate bent to comprise two spaced side portions, an integral cross member at one end shaped to constitute a handle, an integral cross-member at the other end bent to channel-shape, slots in the side walls of said cross member of channel-shape, a terminal-supporting bar having its ends fitting into said slots, a resistor operatively supported by the two side portions only, and terminal pins in said terminal-supporting bar.

1,695,870. ELECTRIC AIR HEATER. VICTOR G. VAUGHAN, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 4, 1927. Serial No. 196,482. 1 Claim. (Cl. 219—34.)



In an air heater, in combination, a casing, an apertured end cap therefor, a refractory-supporting member having one portion extending through the aperture into the casing and an expanded end portion of larger diameter than the aperture of said end cap located outside the casing, an end cover member of cup-shape invertedly presented to said apertured end cap, said cover member being provided with a seat to receive the expanded end portion of the resistor-supporting member, and means for securing the end cover member to the end cap whereby the expanded end portion of the resistor-supporting member is clamped between the end cap and the cover member to hold the supporting member firmly in place.

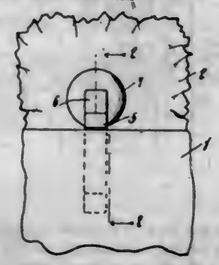
1,695,871. AUTOMOBILE SEAT CONSTRUCTION. CLARENCE J. WALKER, Salina, Kans., and GEORGE F. TRAUTWEIN, Kansas City, Mo. Filed Dec. 6, 1926. Serial No. 152,868. 4 Claims. (Cl. 155—7.)



1. The combination with an automobile body, of a seat back vertically slidably pivotally mounted therein, an attaching member fastened to the inner side of said body and having an inwardly extending threaded stud, a plate fastened to said seat back and having a transverse edge slot provided with an upwardly extending angular extension, said stud being adapted to enter said slot and to pass into said extension when the seat back is moved to an upright position and then lowered, and a nut adapted to be mounted on said stud and to bear against the inner side of said plate.

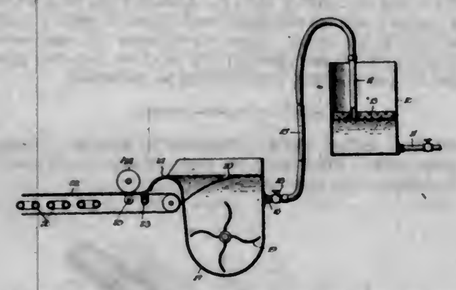


1,695,872. ANTIRATTLER FOR DOORS AND WINDOWS. HENRY WHITE, Jr., Buffalo, N. Y. Filed May 5, 1927. Serial No. 189,023. 4 Claims. (Cl. 292—343.)



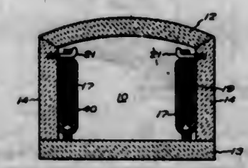
1. An anti-rattler comprising a rubber body having its outer side grooved to provide upwardly and outwardly extending lips and provided at its upper end with a vacuum cup extending beyond its outer side.

1,695,873. PAPER-MAKING MACHINE. HARRISON R. WILLIAMS, Chicago, Ill. Filed Mar. 24, 1926. Serial No. 96,912. 4 Claims. (Cl. 92—38.)



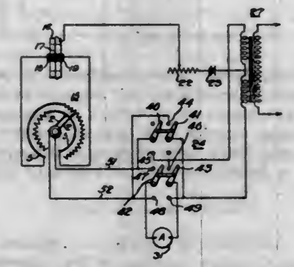
1. In a paper-making machine and the like, the combination of a movable reticulated conveyor, means to actuate said conveyor, a tank having a marginal curved lip over which the liquid in the tank may overflow on to said conveyor, an agitator in said tank, and a screen in said tank between said agitator and said lip.

1,695,874. ELECTRIC FURNACE. JAMES C. WOODSON, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 28, 1926. Serial No. 138,188. 5 Claims. (Cl. 266—1.5.)



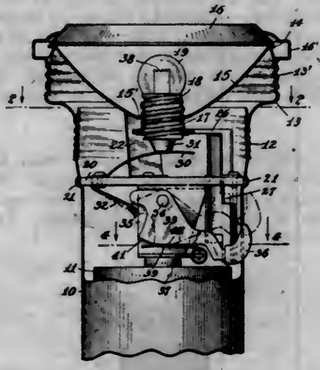
1. In an electric furnace provided with resistors, in combination, a resistor support comprising a pair of metallic sections, each section having a recess, means for holding said sections in assembled relation, the recesses of the assembled sections constituting a receptacle, and insulating blocks positioned in said receptacle and adapted to support a resistor, and means for removably supporting said resistor support in said furnace.

1,695,875. MICROPHONE SYSTEM. JOSEPH E. AIKEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 2, 1925. Serial No. 41,179. 5 Claims. (Cl. 179—81.)



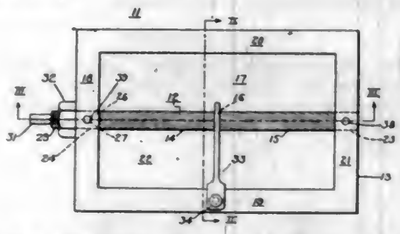
1. Regulating means for a differential microphone having an input terminal and output terminals comprising a rheostat connected to the input terminal, a duplex rheostat having two sections respectively connected to the output terminals of the microphone and being alternatively insertable in circuit therewith, and common control means for said rheostat.

1,695,876. ELECTRICAL HANDLAMP. EDMUND R. BARANY, Brooklyn, N. Y., assignor to French Battery Company, Madison, Wis., a Corporation of Wisconsin. Filed Jan. 31, 1925. Serial No. 5,943. 6 Claims. (Cl. 240—10.5.)



5. An electric hand lamp comprising a casing having one end equipped with a removable reflector, a dry cell in said casing, a lamp having a shank extending through said reflector, a partition member removably secured in said casing between said reflector and dry cell and equipped with a spacing-member engaging said dry cell, a switch pivotally mounted on said spacing member and having a thumb piece projecting laterally through a slot in said casing, and resilient means carried by said partition member and co-acting with said switch to establish electric connection from the central pole of said dry cell to the central terminal of said lamp.

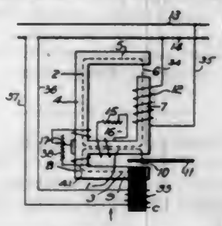
1,695,877. TEMPERATURE-RESPONSIVE DEVICE. PORTER H. BRACE, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1925. Serial No. 76,133. 10 Claims. (Cl. 297—15.)



1. In a temperature responsive device, in combination, actuable means, a bimetal member disposed to actuate said actuable means, means for applying a predetermined torque to said bimetal member, said bimetal member being responsive to said torque upon changes in temperature thereof to cause a twisting action for actuating said actuable means.

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1,695,878. INDUCTION METER. ALBERT CALLSEN, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 20, 1926, Serial No. 110,346, and in Germany May 22, 1925. 4 Claims. (Cl. 171—309.)



1. In an alternating current meter, a voltage magnet for adjusting the phase displacement between the line voltage and the voltage flux; comprising a magnetic circuit divided into two paths one of which is provided with an active air gap for a disc armature, the other of which carries a voltage exciter winding and a winding of variable impedance coupling the fluxes of the said paths of the magnetic circuit.

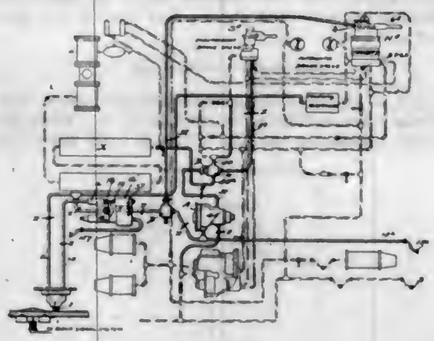
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1,695,879. THERMOSTATIC DEVICE. EARL K. CLARK, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1926. Serial No. 153,265. 11 Claims. (Cl. 200—122.)



1. The combination with a bimetallic member, a heating coil disposed therearound, and means for maintaining said bimetallic member normally in engagement with a fixed contact member, of a second bimetallic member disposed in thermal relation with the heating coil for so actuating said maintaining means that said first named bimetallic member is disengaged from said stationary contact member when said bimetallic members have reached a predetermined temperature.

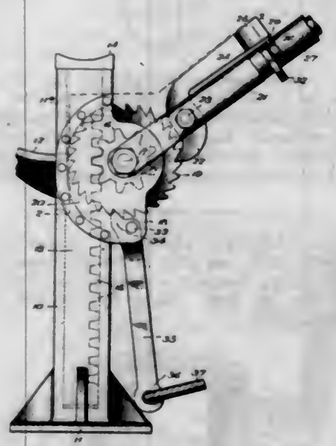
1,695,880. TRAIN-CONTROL APPARATUS. PATRICK J. CLIFFORD, Falls, Pa., assignor to Train Control Corporation of America, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1925, Serial No. 4,484. Renewed May 15, 1928. 3 Claims. (Cl. 246—190.)



1. In combination in an air brake apparatus, a main air reservoir, a train pipe, an automatic air release valve therefor, an engineer's disabling valve in the pipe leading from the main air reservoir to the engineer's automatic brake valve whereby the engineer will be prevented from recharging the train pipe but can make a further train pipe reduction when the automatic air release valve is operated, a valve for supplying air to the automatic air release valve and the engineer's disabling valve for operating them, an eliminating valve between said air supply valve and the automatic air release valve and engineer's disabling valve, an air pipe connection from the engineer's automatic brake valve to the eliminating valve for operating the same when the engineer sets his automatic brake valve in service position, and an air supply connection between the engineer's straight air valve and the disabling valve for restoring said valve to open position, substantially as described.

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1,695,881. AUTO JACK. CHARLES M. COFFMAN, Gallipolis, Ohio. Filed July 14, 1927. Serial No. 205,569. 4 Claims. (Cl. 254—95.)

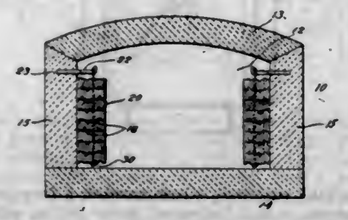


1. A lifting jack comprising a base, a sliding post mounted in the base and having a rack bar in one edge, a transverse shaft mounted at said edge of the base, a pinion on the shaft meshing with the rack bar, a ratchet wheel mounted on the shaft and connected to the pinion for turning therewith and having its teeth disposed in an anticlockwise direction, a locking pawl carried by the base and having a weight arm for normally urging the pawl into interlocking engagement with said ratchet wheel, a handle pivoted upon the base concentric to said ratchet wheel, a pawl pivotally mounted on the handle for interlocking engagement with the ratchet wheel and having a weight arm extending lengthwise of the handle for normally urging the pawl into interlocking engagement with the ratchet wheel, and a handle extension mounted on said handle for reciprocating the same and adapted to be turned, said handle extension having a cam thereon for engagement beneath the weight arm of said pawl on the handle to release the latter from the ratchet wheel.



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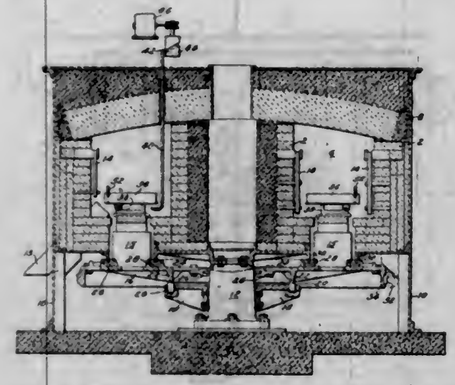
1,695,882. ELECTRIC FURNACE. ORA A. COLBY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 7, 1926. Serial No. 140,114. 7 Claims. (Cl. 266—15.)



1. In an electric heating furnace having walls of refractory insulating material, the combination of a plurality of securing members secured to said walls, supporting rods removably supported upon said securing members, a plurality of blocks of refractory insulating material supported by each of said rods, each of said blocks having grooves therein, and a pair of looped resistor members positioned in said grooves.

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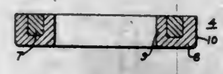
1,695,883. ROTARY-HEARTH FURNACE. ORA A. COLBY, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 14, 1927. Serial No. 205,552. 5 Claims. (Cl. 263—7.)



1. In a rotary-hearth furnace, the combination with a rotary hearth and a plurality of material-carrying trays pivotally mounted thereon, of a single means cooperating with a plurality of said trays for normally maintaining thereon material being heated, and means for tilting said trays to effect the discharge of said material.



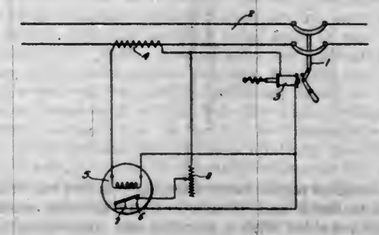
1,695,884. COLLECTOR RING. DAVID J. CONANT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1927. Serial No. 179,762. 4 Claims. (Cl. 171—322.)



4. An extruded copper slip ring having an embedded iron core.

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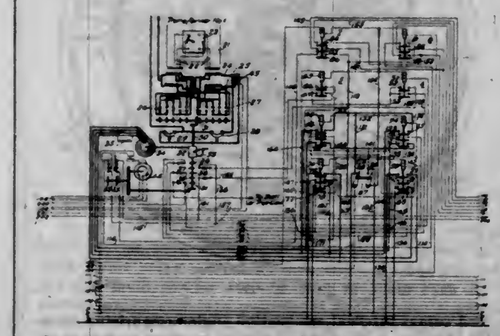
1,695,885. PROTECTIVE SYSTEM. LESLIE N. CRICHTON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 18, 1925. Serial No. 16,397. 1 Claim. (Cl. 175—294.)



The combination with a circuit to be protected and a circuit interrupter therefor provided with a trip coil, of an over-load-responsive relay having normally closed contacts, a shunt circuit for said trip coil comprising said contacts and an impedance device in series-circuit relation, said impedance device being so proportioned that, upon the occurrence of an abnormal over-load upon said circuit, said trip coil is operatively energized irrespective of the operation of said relay.

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1,695,886. TAP-CHANGER SYSTEM. WALTER M. DANN and LELAND H. HILL, Sharon, and EDMUND F. SIPHER, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1926. Serial No. 98,826. 9 Claims. (Cl. 171—119.)



1. In a transformer tap-changing system, a plurality of groups of windings, each winding having a plurality of tap connections, separate mechanisms for changing the tap connections of each group of windings and controlling means for simultaneously initiating the operations of said mechanisms but permitting the separate operation of the several mechanisms after the simultaneous initiation of their operations.

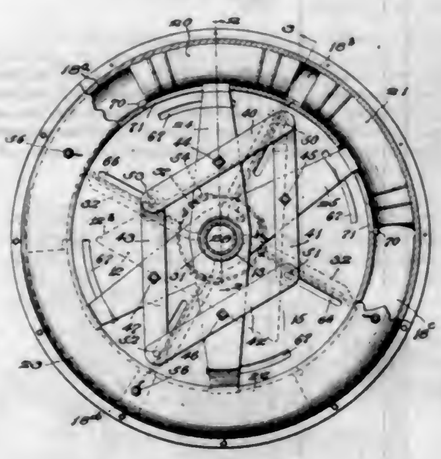
1,695,887. SURGICAL NEEDLE. CHARLES T. DAVIS, Brooklyn, N. Y., assignor to Davis & Geck, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 30, 1927. Serial No. 187,839. 3 Claims. (Cl. 128—330.)



1. A surgical needle formed from a rounded rod of homogeneous material and of substantially uniform cross section, and provided with a piercing end constituted by the edge of a cutaway surface of oval contour intersecting the needle at an acute angle to the axis thereof.

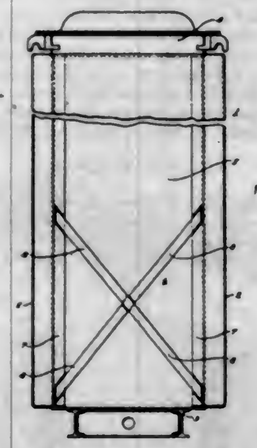
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1,695,888. ROTARY INTERNAL-COMBUSTION ENGINE. LANDON A. DOWDEY, Washington, D. C. Filed Dec. 13, 1927. Serial No. 239,791. 7 Claims. (Cl. 123—11.)



6. A rotary internal combustion engine comprising an annular chamber, a plurality of pistons movable in said chamber, means for causing an explosion between two adjacent pistons to cause one of said pistons to move away from the other, said means including an igniting device positioned intermediate said pistons, means for holding the other piston stationary during the explosion, and means for moving said igniting device in the same direction as the moving piston but at a speed one-half as great, whereby the igniting device remains equidistant from both pistons during the explosion.

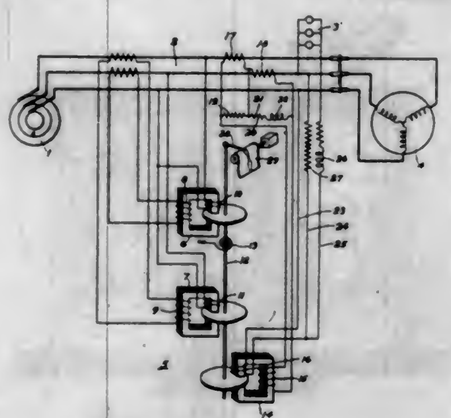
1,695,889. TRANSFORMER. WILLIAM J. FINNEN, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 31, 1926. Serial No. 98,669. 7 Claims. (Cl. 175—361.)



2. In a tank structure, a base member, a frame-work secured thereto, a fluid immersed device fitting within the frame-work without attachment thereto, a relatively thin tank wall mounted on the base member surrounding the frame-work without attachment thereto, and a header for the tank wall attached to the frame-work whereby the tank wall is protected by the frame-work from strains incidental to lifting the tank structure and to damage caused by shifting movements of the device within a tank.

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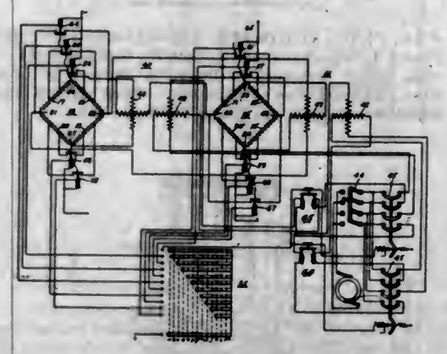
1,695,890. MEASURING INSTRUMENT. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 18, 1925. Serial No. 16,389. 10 Claims. (Cl. 171—34.)



2. A measuring instrument comprising a polyphase wattmeter and phase-sequence meter mechanically connected in opposition, the torques of said meters being equal under balanced circuit conditions.



1,695,891. CONTROL SYSTEM. CHARLES LE G. FORTESCUE, Pittsburgh, PA., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed Feb. 5, 1921, Serial No. 442,764. Divided and this application filed Aug. 28, 1925. Serial No. 53,061. 6 Claims. (Cl. 172—274.)

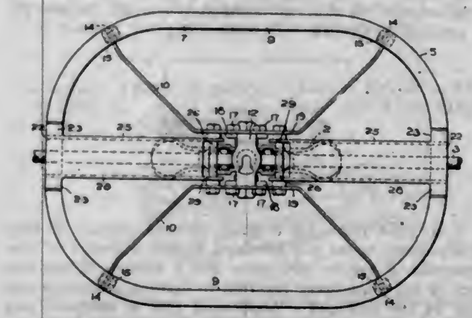


4. In a system of control for polyphase induction motors having primary and secondary phase windings, in combination, a resistor connected to a plurality of the phase windings to provide a plurality of circuits with a common resistor, and means for alternately and progressively short-circuiting sections of the resistor located in the respective circuits to control the current flowing in the phase windings.

5. In a system of control for polyphase induction motors having primary and secondary phase windings, in combination, a loop resistor connected to a plurality of the phase windings to provide a plurality of circuits with a common resistor, and means for alternately and progressively short-circuiting sections of the resistor located in the respective circuits to control the flow of current in the secondary when released.

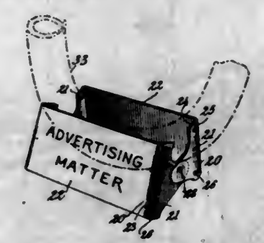
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1,695,892. TRANSMISSION-LINE DEVICE. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 23, 1927. Serial No. 235,300. 14 Claims. (Cl. 173—318.)



13. A transmission-line device comprising an annular electrostatic-field-control element including movable sections over the conductor, side sections between said first sections, means for supporting the side sections and arms disposed over, and in substantially parallel relation to, the conductor beneath said element having inner ends pivotally mounted adjacent to the center of the device and curved outer end portions connected to said movable sections.

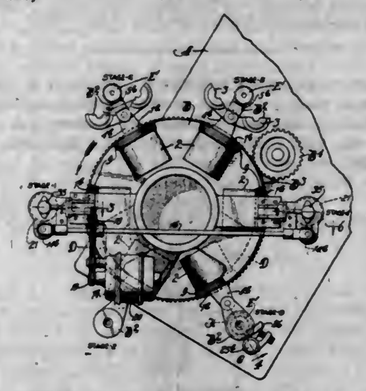
1,695,893. DISPLAY STAND. PHILIP GERMAIN, Jr., New York, N. Y. Filed June 3, 1926. Serial No. 113,364. 8 Claims. (Cl. 211—24.)




1. A foldable display pedestal comprising a pair of elements made of material having substantially the rigidity, toughness and flexibility of fibre-board, said elements having end portions and intermediate portions connected along lines of the material weakened, as by scoring, to form hinge-like joints, said end portions being bent at said lines of weakness into planes substantially perpendicular to the planes of the intermediate portions, the bent end portions being reinforced by having additional layers of material secured thereto and having their free ends overlapped and pivotally connected so as to form two oppositely-disposed sides of the pedestal having parts relatively movable about aligned axes, each of the pivotally-connected end portions being so formed as to provide a pair of upwardly-extending grippers and a pair of downwardly-directed widely separated supports, whereby the weight of an article supported in said grippers will tend to depress the unsupported pivoted portions of the pedestal elements and thereby cause the grippers to close and firmly grip the supported article.

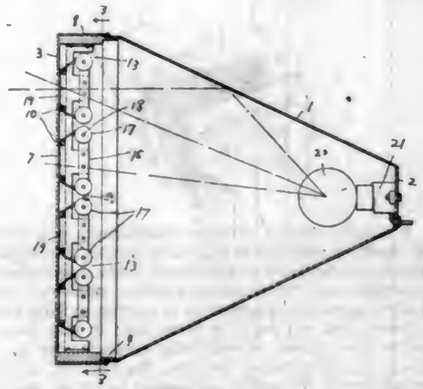
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1,695,894. MACHINE FOR MAKING GLASS CONTAINERS. WARREN E. GLASPEY, Bridgeton, N. J., assignor to Spring Stopper Company, a Corporation of Delaware. Filed Dec. 9, 1927. Serial No. 238,936. 1 Claim. (Cl. 49—36.)



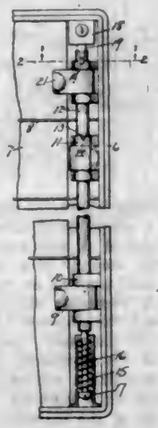
In a machine of the character set forth; a rotatable mold carrier with a plurality of invertible molds, one of such molds being located at each stage; means for rotating the mold carrier step by step to bring each of the molds successively into position at each stage; a mandrel with a threaded tip arranged above each mold; means at one stage to lower the mandrel to move the threaded tip into the neck of the mold; means to cause inversion of the mold in its movement toward a succeeding stage; means for inserting a charge of glass in the mold at a succeeding stage while inverted; means for unscrewing the threaded tip of the mandrel to loosen the same from the glass charge; means for righting the mold in its movement toward a succeeding stage; and means for raising the mandrel from the glass charge in the mold at a succeeding stage.

1,695,895. ELECTRIC SIGN. LOUIS GOLDSMITH, Altoona, Pa. Filed Feb. 18, 1928. Serial No. 255,353. 1 Claim. (Cl. 40—86.)



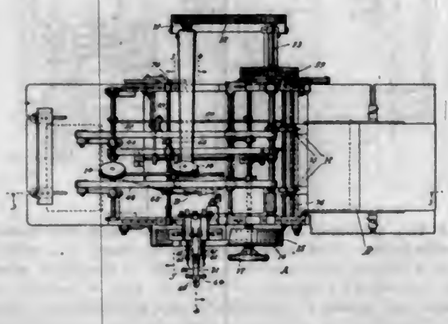
In a sign, a frame, a face plate at the front of the frame provided with displaying openings, a plurality of parallel spaced brackets arranged vertically in the frame on opposite sides of the aligned displaying openings, spring strips secured on opposite sides of the bracket and arranged in pairs, the free ends of the spring strips being flexed, upper and lower rotatable reels supported between each pair of spring strips above and below the displaying openings, an indicia carrying web operatively connected at the ends to the upper and lower reels of each pair, said web adapted to extend over the respective displaying openings, means for maintaining a portion of the web against the rear side of the face plate, said last mentioned means comprising a series of horizontally arranged rods extending across the vertical brackets directly above the upper and lower edges of the displaying openings and engaging with the inner side of the webs.

1,695,896. DRAWER FASTENER. BENEDICT M. HOLDEN, Hartford, Conn., assignor to The Gramarben Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 15, 1927. Serial No. 184,137. 8 Claims. (Cl. 45—94.)



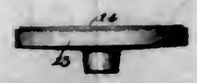
4. A case having a plurality of drawers therein, cooperating members including a locking member for each drawer and a longitudinally movable retainer member for all of said locking members and upon which retainer member each of said locking members is pivotally mounted, and an interengaging pin and notch connection between said cooperating members to independently secure or release either of said locking members in or from their open or closed positions by endwise movement of said retainer.

1,695,897. AUTOMATIC CALENDAR STITCHER. FRANK J. KRISTOFEK and OSCAR W. HAMMERQUIST, St. Paul, Minn., assignors to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Mar. 19, 1921. Serial No. 453,793. 14 Claims. (Cl. 1—7.)



1. A device of the class described comprising, a unit stitching head, a belt carrying means associated with said head in a manner to convey articles therebetween in a flat plane to be stitched by said stitching head and carried to and from said stitching head, a longitudinally extending stop gauge, and means for stopping the articles and simultaneously moving the same into engagement with said longitudinally extending stop gauge to hold the articles stationary momentarily in a set position when being stitched, said belt means continuing in operation to move said articles along said longitudinal stop gauge when released.

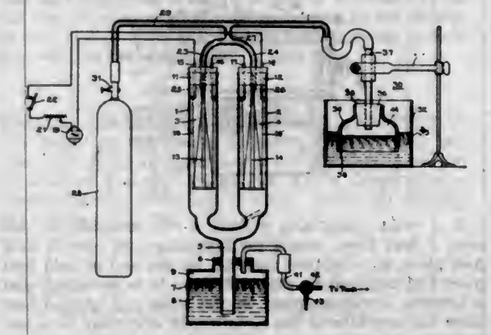
1,695,898. PLATE FOR MEAT-GRINDING MACHINES. CHARLES A. LAEMMEL, Brooklyn, N. Y., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 7, 1927. Serial No. 224,584. 2 Claims. (Cl. 146—189.)



1. An end plate for a meat chopper formed of relatively cheap metal and provided with a plurality of perforations, a hub in said plate and a portion of one surface of the plate being removed to leave a projecting portion of the hub and a peripherial rim, a hardened tool steel disc provided with a plurality of perforations, said disc provided with an opening adapted to be forced over said hub and the circular edge of said disc fitting tightly within the rim of the plate, and its outer surface extending beyond the rim of the plate the disc and plate being scored at one place on their periphery and the plate provided with small cut-out portions adjacent the score, the said disc provided with ears fitting within said cut-out portions, whereby after the disc is forced into place they are substantially integral one with the other.

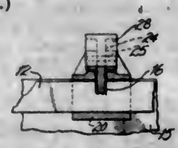


1,695,899. ELECTRON-EMITTING ELEMENT. LEON MCCULLOCH, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 27, 1922. Serial No. 590,777. 16 Claims. (Cl. 250—27.5.)



1. The steps in a method of treating a conducting element which consist in coating said element with an aqueous solution of at least one compound of at least one metal of the alkaline-earth group and subsequently heating said element to ignition temperature in an atmosphere of carbon dioxide.

1,695,900. SWITCH-LOCK DEVICE. EDWARD W. POWELL, Chicago, Ill., assignor to Pettibone Mulliken Company, Chicago, Ill., a Corporation of New York. Filed Oct. 14, 1927. Serial No. 226,138. 4 Claims. (Cl. 246—448.)



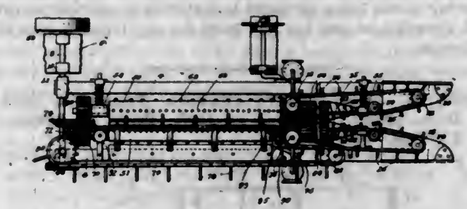
1. In a railway track, the combination with the point-rails of a switch therefor, of locking mechanism for said point-rails comprising a lock-rod operatively engaging said point-rails and provided with a notch, a stationary guide-member in which said rod is slidable longitudinally, and a pivoted locking member having a portion adapted to enter said notch and provided with flanges extending from its lateral edges laterally in opposite directions along the upper edge and the front edge of said member and overlapping said guide-member.

1,695,901. VEHICLE BRAKE. SVERRE QUISLING, Philadelphia, Pa. Filed June 6, 1924. Serial No. 718,361. 1 Claim. (Cl. 188—8.)



The combination with a sled having rigidly mounted runners provided with extensions at their rear ends capable of flexing, of a pair of links fixed to the flexing extensions and extending toward each other and pivoted substantially midway between the two runners, a bar connected to said pivoted ends of the links and etending forwardly and terminating in an up-turned part operating in a slot formed in the top of the sled, whereby upon movement of the bar forwardly, the links will pull the flexing extensions of the runners toward each other and thereby exert a braking action on the ground.

1,695,902. CORN MACHINE. WILLIAM H. SANDIFUR, Medaryville, Ind. Filed June 25, 1924. Serial No. 722,292. 2 Claims. (Cl. 56—104.)



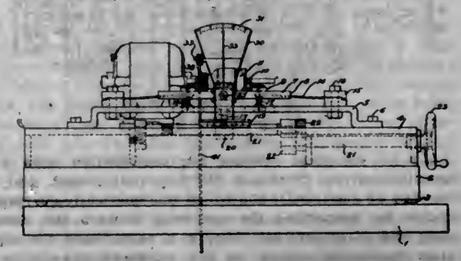
1. A corn harvester comprising a frame, rolls journaled thereon, a panel board located above the rolls and disposed longitudinally thereof, brackets mounted upon the panel boards, a guide bar carried by the bracket and having its lower edge spaced above the upper surface of the panel board, the guide bar being disposed in a plane at a right angle to the plane of the panel board, a chain mounted for movement upon the upper surface of the panel board, fingers carried at the side of the chain and resting directly upon the upper surface of the panel board, said fingers completely bridging the space between the upper surface of the panel board and the guide bar and said fingers passing through the space between the panel board and the guide bar.

1,695,903. WINDOW CONSTRUCTION. FRANK MCMURRAY SAWYER, Miami Beach, Fla. Filed Nov. 8, 1924. Serial No. 748,665. 2 Claims. (Cl. 72—99.)



1. In a window construction for concrete structures, an upper sashless pane fixed in position against movement, a lower sashless pane which extends into recesses at the sides of the window frame, a guide at each side of the window extending continuously the full height thereof and provided with a leg adapted to engage one face of the upper pane and press it against an abutment of the precast frame and said leg being also provided with a spring-tongue adapted to engage the full length of the adjacent vertical edge of the lower pane at all times, and precast side stops having flexible pads for engaging the face of the lower pane adjacent its vertical edges to retain the same in position.

1,695,904. BALANCING MACHINE. CARL RICHARD SODERBERG, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1923. Serial No. 633,617. 17 Claims. (Cl. 73—51.)

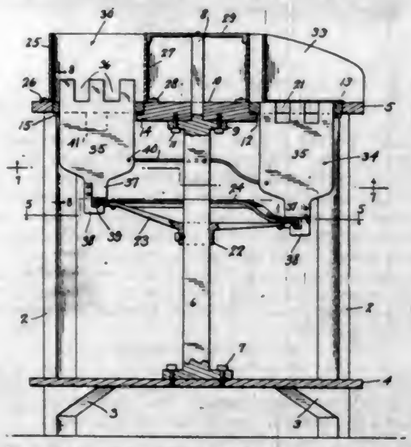


1. A balancing machine comprising a base, an oscillatory bed mounted thereon, means on said bed for rotatably

mounting a body to be balanced, spring means for yieldingly restraining said bed, and a movable fulcrum interposed between said bed and base with its axis in a plane at right angles to the axis of the body to be balanced, said spring means being arranged to maintain a constant period of vibration of said bed and body for any location of said fulcrum.

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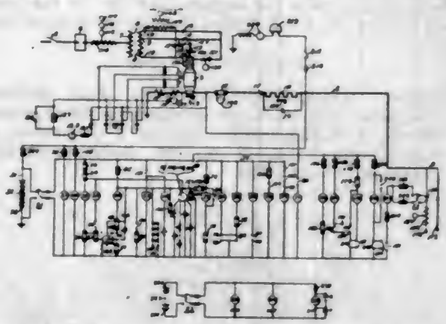
1,695,905. SEED-POTATO CUTTER. THOMAS A. TRUE, Declo, Idaho. Filed Apr. 11, 1928. Serial No. 269,038. 8 Claims. (Cl. 146—78.)



1. In a seed potato cutter, a stand, a rotatable potato receiving platform arranged on the stand, stationary spaced vertical cutting knives arranged above the platform, a vertically movable horizontal cutting knife disposed adjacent the stationary vertical cutting knives, means carried by the rotatable platform for feeding the potatoes one at a time to the cutting mechanism, and a potato engaging unit arranged forwardly of the cutting mechanism and being operatively connected with the horizontal cutting knife for actuating the same depending upon the size of the potato that is fed to the cutting mechanism.

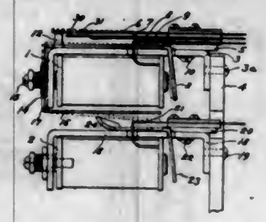
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1,695,906. PNEUMATICALLY-OPERATED STATION. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 1, 1923. Serial No. 665,842. 3 Claims. (Cl. 171—118.)



1. In an electrical system, the combination with an alternating-current circuit, a direct-current circuit, and a converter, of electrically-controlled pneumatically-operated switches for connecting the converter between the alternating and direct-current circuits, a compressor for supplying pneumatic energy to the pneumatically-operated switches and means connected to the direct-current circuit for operating the compressor.

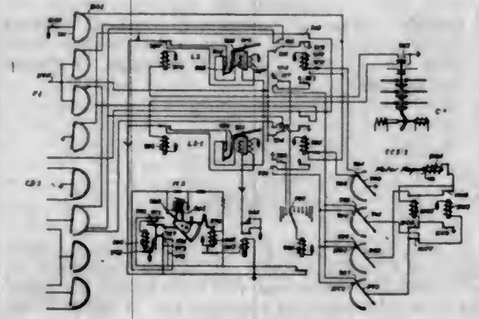
1,695,907. ELECTRICAL RELAY. ROY J. WENSLEY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 15, 1924. Serial No. 750,183. 7 Claims. (Cl. 200—106.)



1. A relay comprising a core, a coil mounted on said core, a heel piece, means for fastening said core to said heel piece, an armature mounted on one end of said heel piece and actuated by said coil when it is energized, and a latching device mounted on the other end of said heel piece for maintaining the armature of said relay in a predetermined position.

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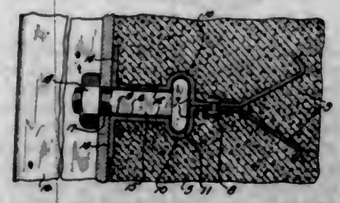
1,695,908. SUPERVISORY CONTROL SYSTEM. THOMAS U. WHITE, Pittsburgh, and JOHN E. GARDNER, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 21, 1924. Serial No. 707,806. 8 Claims. (Cl. 177—353.)



4. In an electrical control system, the combination with a station and three or more apparatus units in said station, automatic means for operating a plurality of apparatus units, said units being also operable from said office, of code-sending means operative upon the operation of one of said units for sending a code of impulses, and storing means for controlling the operation of said code-sending means so that codes of impulses are invariably sent out in accordance with the sequence in which said units operate irrespective of the time intervening between the operation of said units.

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1,695,909. ADJUSTABLE METAL INSERT FOR CONCRETE WORK. CHARLES H. BAUER, Milwaukee, Wis. Filed May 4, 1927. Serial No. 188,747. 2 Claims. (Cl. 72—105.)



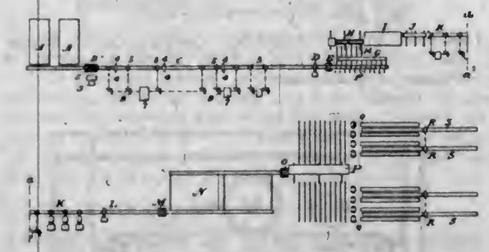
2. In a building construction, a concrete wall, a pair of insert members imbedded in said wall, each insert member



consisting of a pair of complementary plates secured together and having a slotted opening between portions of the same, the inner end portions of said plates being formed with angular diverging anchoring portions, a bolt vertically adjustably positioned within the slotted opening on each insert and projecting laterally therefrom exteriorly of the wall, and an angular shelf member secured on the projecting ends of a pair of bolts with its vertical flange immediately adjacent the outer surface of said wall.

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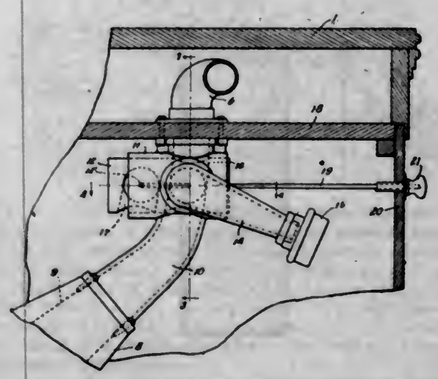
1,695,910. CONTINUOUS-SHEET MILL AND METHOD OF MAKING FINISHED SHEETS. FLORENCE C. BIGGERT, Jr., Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 7, 1923. Serial No. 661,406. 20 Claims. (Cl. 29—17.)



1. In a mill, a support arranged to receive a pack of sheets, a clamping member, means for positioning said clamping member across an intermediate portion of said pack, means cooperating with said clamping member for automatically forcing the same into clamping engagement with said pack, and roller means for doubling said pack about said clamping member, substantially as described.

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1,695,911. COMBINED PHONOGRAPH AND RADIO APPARATUS. JOSEPH W. BISHOP and BYRON C. BOOTH, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Wilmington, Del., a Corporation of Delaware. Filed June 30, 1924. Serial No. 723,104. 3 Claims. (Cl. 179—100.1.)



1. In a device of the character described, an oscillatory tone-arm, a fixed amplifying horn, a neck connecting said tone-arm to said amplifying horn, a radio loud speaker connected to said neck, a one piece valve slidable in said neck and having passageways to operatively connect said horn with either said tone-arm or said loud speaker, and means for limiting the movement of said valve, said means comprising a pin on said valve engaging a slot in said neck.

1,695,912. METHOD OF TREATING FIBROUS MATERIAL. ARTHUR L. BROWN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 16, 1923. Serial No. 625,621. 5 Claims. (Cl. 91—70.)

1. A method of treating fibrous material which comprises impregnating the same with a catalytic agent, impregnating the treated material with a mixture comprising a phenolic body and a polymerizable oil and then heating.

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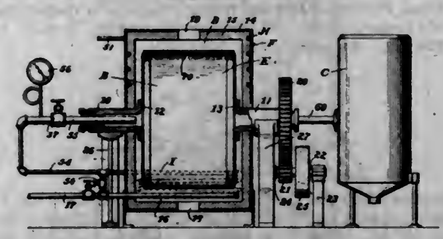
1,695,913. FOUNTAIN PEN. NORA T. BURKE, Stoneham, Mass. Filed Aug. 31, 1928. Serial No. 303,279. 3 Claims. (Cl. 120—52.)



1. A fountain pen having a casing, a finger piece at the end of the casing, a feeder piece and a pen point carried by and within the finger piece, the two latter being exposed from and beyond the end of the finger piece and a cast-in-place plug for sealing the joint between the pen point, feeder piece and finger piece.

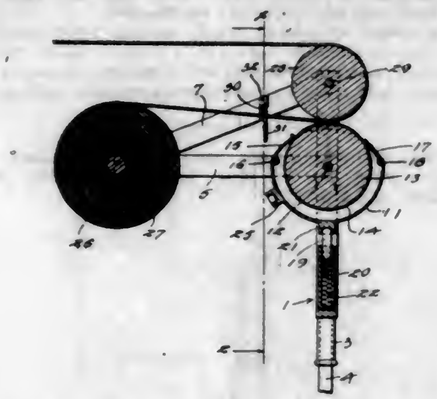
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1,695,914. PROCESS FOR PRODUCING GAS. LINUS P. BURROWS, deceased, Erie, Pa., by Lenah B. Archer, executrix, now, by change of name, Lenah Burrows, Navarre, Ohio. Filed Nov. 13, 1922, Serial No. 600,727. Renewed Jan. 13, 1928. 1 Claim. (Cl. 48—202.)



A process for producing combustible gas, which comprises surrounding a retort in a furnace with a high temperature heat zone, generating steam and conducting said steam through iron pipes embedded in the furnace walls, the temperature of said zone and said walls being sufficiently high whereby a portion of said steam is decomposed into hydrogen and oxygen, the former passing on through the pipes, the latter combining with the iron to form iron oxide, and the remaining portion of said steam is superheated, conducting the hydrogen and superheated steam resulting from passage through the pipes into the retort, positively agitating coal in said retort while maintaining the heat and flow of superheated steam and hydrogen, thereby producing combustible gases, and removing said gases from said retort.

**1,695,915. MACHINE FOR HANGING WALL PAPER.** WILLIAM A. COLE, Belding, Mich. Filed Jan. 12, 1928. Serial No. 246,232. 8 Claims. (Cl. 216—6.)



1. A machine for hanging wall paper, comprising a frame, a paste receptacle rockably supported within the frame, means to hold the receptacle against rocking movement, a pasting roller rotatably supported within the paste receptacle, a smoothing roller rotatively supported within the frame above the pasting roller, arms extending rearwardly from the sides of the frame, and a paper roll supporting spindle journaled in the rear ends of the arms.

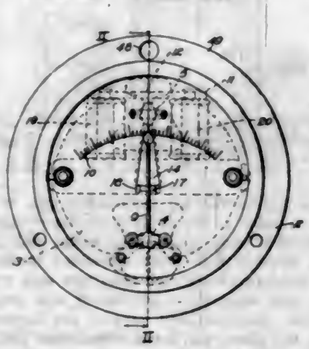
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1,695,916. ALLOY STEEL. GREGORY J. COMSTOCK, Pittsburgh, Pa., assignor to Firth-Sterling Steel Company, McKeesport, Pa., a Corporation of Pennsylvania. Filed June 30, 1927. Serial No. 202,762. 5 Claims. (Cl. 75—1.)

1. An alloy steel containing carbon about 1.20 to 1.80%, chromium about 10 to 14%, vanadium about .75 to 1.25%, and molybdenum about .50 to 1.25%, and having the capability for air hardening even in fairly large sections and the capability for being annealed sufficiently soft for easy machining.

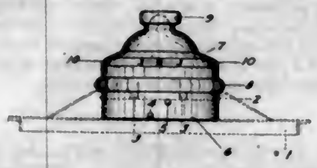
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1,695,917. ELECTRICAL MEASURING INSTRUMENT. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 31, 1921. Serial No. 526,232. 6 Claims. (Cl. 171—95.)



2. An electrical measuring instrument comprising a single homogeneous permanent magnet member having a plurality of portions of substantially C-shape, the ends of each of which are of opposite polarity, said portions having a common intermediate section, and indicating means cooperating with each of said portions.

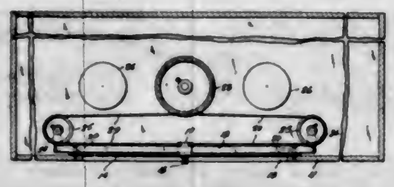
**1,695,918. PERCOLATOR TOP.** WILLIAM F. CONRADT, Davenport, Iowa. Filed Mar. 5, 1928. Serial No. 259,164. 5 Claims. (Cl. 53—3.)



1. A percolator top having a flange for insertion into a percolator cover, said flange having holding lugs on its exterior surface, and said lugs being spaced longitudinally and transversely of the flange.

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1,695,919. TUNING DEVICE. LESLIE A. GOULD, Bridgeport, Conn. Filed Aug. 7, 1925. Serial No. 48,775. 6 Claims. (Cl. 250—40.)



1. The combination with a radio receiving mechanism including a tuning device having a rotary element, a panel at one side of said device, a support in the rear of the panel, a member mounted to slide on said support, means accessible at the front of the panel for sliding said member on its support, and a driving connection from said member to the rotary element for adjusting the same by said sliding movement.

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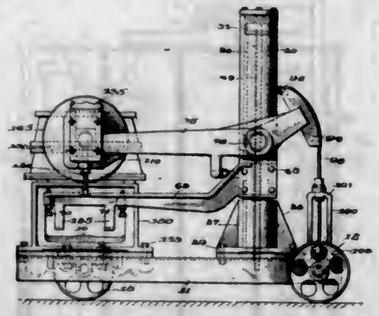
1,695,920. METALLIC MILK BOTTLE. THOMAS N. HARRISON, Jr., Littleton, N. C. Filed Feb. 25, 1926. Serial No. 90,568. 1 Claim. (Cl. 215—11.)



A metallic nursing bottle having a flat base portion, said flat base portion having secured thereto a second supporting base portion, the wall portions of the bottle and the base portion being connected to each other by a gradual curve and being integral with each other, the upper end of the bottle having its edges rolled outwardly until the upper edges of the bottle fit snugly against the outer wall portion to form a sanitary and smooth edge for the mouth of the bottle.



**1,695,921. MOLDING MACHINE.** EDWARD HARMES, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company, a Corporation of New Jersey. Filed Apr. 9, 1927. Serial No. 182,261. 13 Claims. (Cl. 22—32.)



1. In a molding machine, a two-part flask, flask supporting means, means for moving said flask linearly, means cooperating therewith and called into action thereby for varying the path of travel of said flask, means for drawing a pattern from both flask parts, and means for assembling the two flask parts to close the mold.

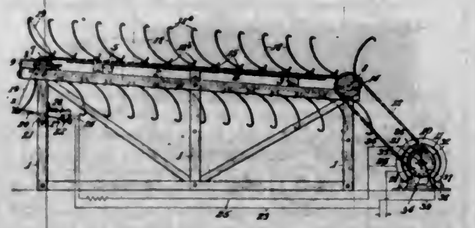
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**1,695,922. PROCESS OF HEAT TREATING STEEL.** LE BARON W. KINNEY, Cleveland, and GEORGE H. BIERMAN, East Cleveland, Ohio, assignors to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 27, 1926. Serial No. 138,117. 3 Claims. (Cl. 148—1.)

2. A composition for preventing decarbonization during heat treatment consisting entirely of kieselguhr, water, and borax.

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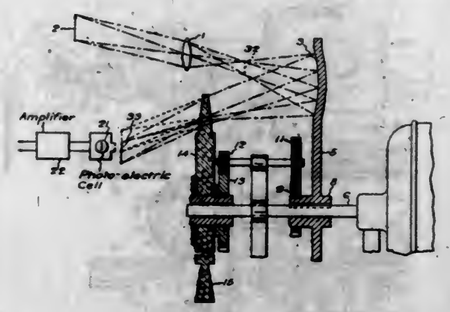
**1,695,923. PLATE REVERSING AND COOLING MECHANISM.** CHARLES W. KINTER and CHARLES H. MANION, Follansbee, W. Va., assignors to Follansbee Brothers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed May 20, 1927. Serial No. 193,044. 5 Claims. (Cl. 198—134.)



1. In a plate reversing and cooling mechanism, endless conveyor chains, a plurality of supporting members mounted on said chains in uniformly spaced relation, a pair of fingers constituting a plate carrier mounted on each supporting member in upstanding relation to the latter, each finger having at its opposite ends plate-edge-receiving terminals of hook-like form, and means for intermittently advancing said chains throughout the distance between successive plate carriers.

3. In a plate reversing and cooling mechanism, endless traveling chains, a plurality of plate carriers borne by said chains in uniformly spaced relation, each carrier comprising a suitable support and a pair of fingers, the latter having their lower end portions rigidly mounted on and occupying inclined upstanding relation to said support, each finger having at its opposite ends seats for the reception of opposite edges of a plate, and means for intermittently advancing said chains throughout the distance between successive carriers.

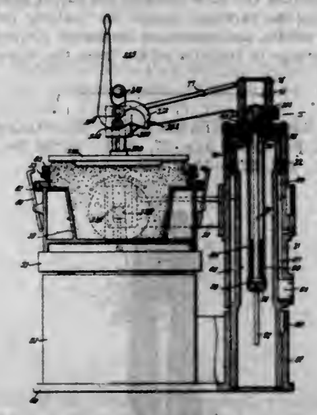
**1,695,924. TELEVISION APPARATUS.** SAMUEL M. KINTNER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 15, 1926. Serial No. 141,728. 9 Claims. (Cl. 178—6.)




1. In a translating device for picture transference, a rotatable member of approximately disc form and a series of reflecting devices disposed in rotative sequence on said rotatable member, each of said reflecting devices having its reflecting surface a surface of revolution, whereby each reflecting device is capable of producing a point focus.

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1,695,925. MOLDING MACHINE. JOHN J. LAWLOR, Plainfield, N. J., assignor to New Process Multi-Castings Company, a Corporation of New Jersey. Filed Oct. 20, 1926. Serial No. 142,907. 5 Claims. (Cl. 22—43.)



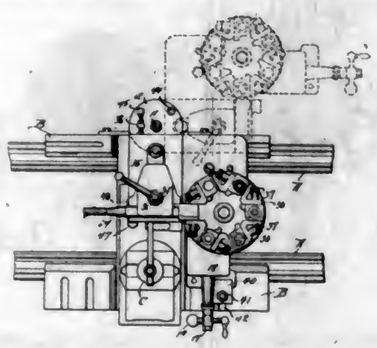
1. In a molding machine, a jarring table for jarring a flask containing molding sand, relatively movable piston and cylinder members, a flask carried by one of said members and movable vertically with respect thereto, and a sand packing follower member carried by one of said members and freely vertically movable with respect thereto, for packing sand in said flask during jarring thereof.

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1,695,926. TURRET ATTACHMENT FOR LATHES. ARTHUR J. LIBERT, Green Bay, Wis. Filed Nov. 24, 1925, Serial No. 71,076. Renewed Aug. 24, 1928. 4 Claims. (Cl. 29—48.)

1. The combination of a bracket adapted to be secured to the carriage of a lathe, and having a horizontal base, a turret having a turn table portion pivotally connected with the base for the horisontal swinging of said turret on and from the carriage, a saddle adjustable on the turret

and having a platform, a swinging table eccentrically pivoted to the platform, a tool holder rotatable on the table, means for latching the latter in two positions on the platform, and means for clamping a selected tool from the tool holder on the saddle when the table is in one position on the platform.



4. The combination of a bracket adapted to be secured to the carriage of a lathe, and having a horizontal base, a turret having a turn table portion pivotally connected with the base for the horizontal swinging of said turret on and from the carriage, a saddle adjustably engaged on the turret and having a platform, a swinging table eccentrically pivoted to the platform, a tool holder rotatable on the table, means for latching the latter in different positions on the platform, means for clamping a selected tool upon the saddle when said tool has been lowered from the holder and the table is in one position on the platform, means for locking the turn table of the turret when swung off of or onto the carriage, means for limiting the adjustment of the saddle, and means on the turret and engageable with the carriage to transfer strain from the turret to said carriage.

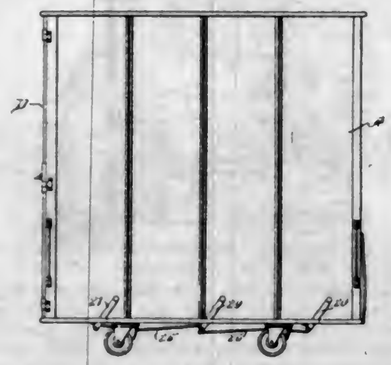
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1,695,927. NECKTIE STRETCHER. WLADYSLAW LYJAK, Braddock, Pa. Filed Jan. 27, 1927. Serial No. 163,923. 2 Claims. (Cl. 223—19.)



1. In a necktie stretcher, a pair of relatively movable connected channel-like members, and a removable wedging member positioned within the stretcher body, said wedging member having a curved contacting channel engaging portion.

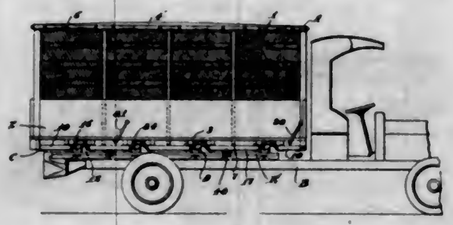
1,695,928. ROLLING CONTAINER. DONALD W. PERIN, Brookline, Mass., assignor to Perin-Walsh Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 18, 1924. Serial No. 738,395. 19 Claims. (Cl. 280—49.)



1. A container having a plurality of swivel rollers and means for positively locking a set of the rollers against swiveling when said rollers are in a predetermined position, said means comprising lugs, selectively operable linkage adapted to press said lugs in yieldable engagement with surfaces upon swiveling portions of the rollers, and recesses in said surfaces adapted to be engaged by said lugs when the rollers are swiveled to the predetermined positions, whereby one or more of the rollers in the set may be locked in position when swiveled to said predetermined position.

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1,695,929. REMOVABLE CONTAINER FOR VEHICLES. DONALD W. PERIN, Brookline, Mass., assignor to Perin-Walsh Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 25, 1924. Serial No. 739,804. 6 Claims. (Cl. 280—49.)

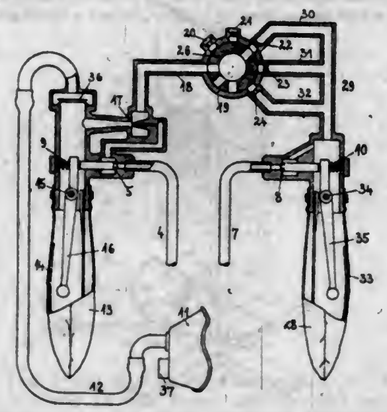


1. A container having swivel rollers, means for locking said rollers against swiveling movement, and an actuator projecting from said means to engage a fixed stop when the container is rolled on a vehicle thereby automatically to lock the rollers.

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1,695,930. INHALING DEVICE FOR ADMINISTERING GASES AND THE LIKE. HANS WILHELM CHRISTIAN SCHRÖDER, Lubeck, Germany, assignor to Alexander Bernhard Dräger, Finkenberg, Lubeck, Germany; Elfriede Dräger, née Stange, executrix of said Dräger, deceased. Filed Nov. 13, 1925, Serial No. 68,918, and in Germany Nov. 15, 1924. 5 Claims. (Cl. 128—203.)

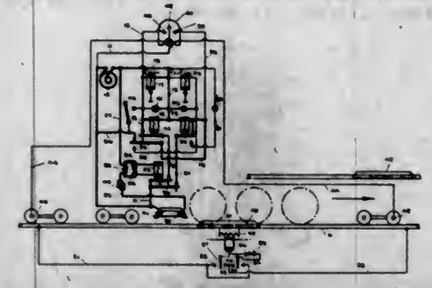
1. A breathing apparatus comprising an injector, a source supplying a gas under pressure to said injector to actuate it, a collapsible breathing bag adapted to receive gas from said injector, a valve mechanism coordinated with, and actuated by, the collapse of said bag for controlling the flow of said actuating gas to said injector, a conduit through which a second gas is drawn by the action of



said injector to be injected thereby into said breathing bag, and an adjustable valve in said conduit for determining the flow of said second gas.

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1,695,931. TRAIN-CONTROLLING APPARATUS. DANIEL HERBERT SCHWEYER, Easton, Pa. Filed Aug. 13, 1923. Serial No. 657,229. 11 Claims. (Cl. 246—63.)



1. The combination of a vehicle track, a controlled track-side circuit at each control station including an electrically continuous portion of the track and having a source of electrical energy, and a vehicle equipment including a normally deenergized vehicle-carried partial circuit connected at its terminals to the track to cooperate with the trackside circuit in parallel with and shunting said portion of the track when passing the control station, means operable when said vehicle-carried circuit passes said portion of the track to produce danger vehicle controlling conditions, and means controlled by electrical energy flowing in said vehicle-carried circuit for obtaining other vehicle controlling conditions.

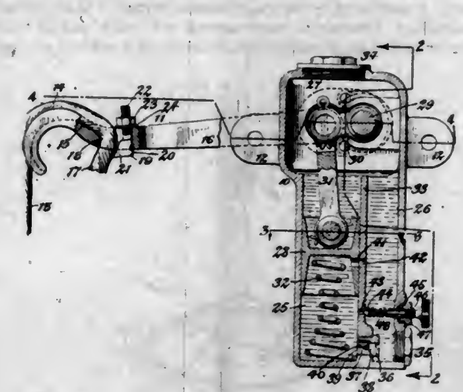
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1,695,932. EXPLOSIVE. ALEXANDER CRUICKSHANK SCOTT, London, England, assignor to Mexico Limited, London, England, a British Company. Filed July 28, 1926, Serial No. 125,586, and in Great Britain Aug. 12, 1925. 14 Claims. (Cl. 52—12.)

1. In a process for impregnating explosive cartridges of the kind described with a liquid nitro-body, effecting the impregnation of the cartridge by the aid of a liquid spreading agent, which agent has the property of assisting the nitro-body to creep over the surfaces of the crystals and thereby to become evenly disseminated throughout the mass of said crystals.



1,695,933. SHOCK ABSORBER. ALBERT B. SHULTZ, Buffalo, N. Y. Filed Dec. 5, 1921. Serial No. 519,839. 7 Claims. (Cl. 267—8.)



1. A shock absorber adapted to be arranged between two relatively movable members, comprising a cylinder adapted to be connected with one of said members, a piston arranged in said cylinder and adapted to be connected with the other member, and a liquid reservoir, said piston having a port and said cylinder having a port leading to said reservoir, said ports being adapted to register and place said cylinder and reservoir in communication with each other during the central part of the stroke of said piston in the cylinder but to cut off communication through these ports between the cylinder and reservoir when the piston is at either end of its stroke.

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1,695,934. FURRING AND FASTENING DEVICE. SARAH B. SULLIVAN, Berkeley, Calif. Filed Jan. 16, 1926. Serial No. 81,639. 1 Claim. (Cl. 72—118.)



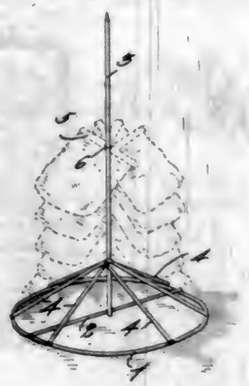
In a device of the character described, a spacing member comprising a triangular tube formed of a strip of sheet metal with the ends recessed and abutting at one of the corners, a fastener comprising a pointed and headed shank passing through the said spacer recesses and the side opposite said corner, said side being adjacent the pointed end of the shank whereby it may lie against the wall when the device is operatively disposed, and means incorporated with the spacer for holding the strip ends together.

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1,695,935. DISPLAY STAND. CHARLES J. VESLEY, Portland, Oreg. Filed May 18, 1927. Serial No. 192,362. 2 Claims. (Cl. 211—59.)

1. A display stand comprising a ring-like base, a brace rod extending diametrically across the ring-like base, an article receiving spindle having its lower end secured to the intermediate portion of the brace rod and extending upwardly therefrom, and a series of additional brace rods extending diametrically across the ring-like base, the free

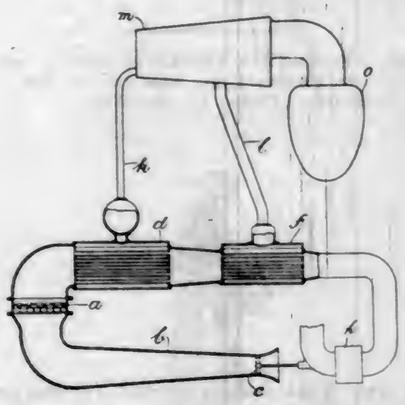
ends of the additional brace rods being secured to the ring-like base at diametrically opposite points, the intermediate portions of the additional brace rods being bent and inter-



secting one another, the intersecting portions of the additional brace rods being secured to the spindle at a point above the lower end thereof.

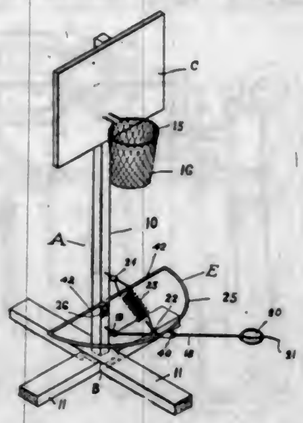
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1,695,936. POWER PLANT. JAMES GEORGE WEIR, Cathcart, Glasgow, Scotland, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Filed Jan. 23, 1926, Serial No. 83,408, and in Great Britain Feb. 25, 1925. 6 Claims. (Cl. 122—1.)



1. In the employment for power production of the hot gases resulting from the combustion of fuel and comprising non-condensable gases and water vapour, the method of operation consisting in passing the said gases first through, and utilizing them in, an ordinary boiler and then passing them through, and further utilizing them in, a low-pressure boiler, burning the fuel at a pressure substantially above atmospheric and maintaining the hot gases at a pressure substantially above atmospheric in their passage through the two boilers, utilizing the energy due to the pressure of the said gases, after they have left the said low-pressure boiler, in a turbine placed in the discharge flue of said low-pressure boiler, said turbine acting to maintain the pressure of said gases in their passage through the two boilers, and operating the said low-pressure boiler at such a pressure of steam generation that the temperature is sufficiently low to allow of the condensation of the water vapour in the said hot gases.

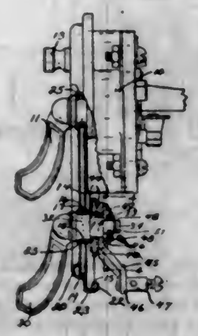
1,695,937. TOY GAME. FRANK M. WELCH, St. Paul, Minn. Filed Mar. 17, 1927. Serial No. 176,028. 12 Claims. (Cl. 273—101.)



9. A toy including, a standard, a separable base for supporting said standard, a tossing arm pivotally connected to said standard, and a stop shoulder for said tossing arms removably supported to said standard above said tossing arm.

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1,695,938. CONTROL MECHANISM. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Co., Milwaukee, Wis. Filed June 1, 1925. Serial No. 34,064. 2 Claims. (Cl. 74—39.)



1. The combination with a face plate assembly provided with an aperture, of a shaft extending through said aperture and provided with a hand lever exteriorly thereof, a friction plate spaced interiorly of said assembly and having an aperture for said shaft, washers splined to said shaft and in frictional engagement with said friction plate, a spring confined between a portion of said shaft and one of said washers and acting thereon in a direction to force said washer toward said friction plate, and means upon said shaft adapted to transmit to the other of said washers the reaction of said spring, whereby said shaft is axially positioned with reference to said friction plate irrespective of said mounting plate assembly.

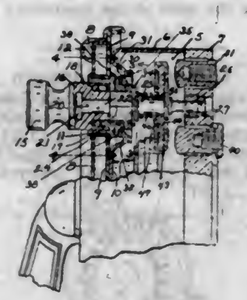
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1,695,939. DASH SWITCH. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis. Filed June 25, 1925. Serial No. 39,470. 20 Claims. (Cl. 200—159.)

20. In a switch device, the combination with an apertured casing wall, of a bearing aligned with said aperture,



a handle reciprocably and rotatably mounted in said bearing, a shaft secured to said handle and extending through said aperture and into the exterior of said casing, a compression spring confined between said casing and handle, a cam comprising a portion carried by said casing and a portion carried by said shaft and arranged to move said shaft axially inwardly of said casing upon manual rotation thereof, contacts carried by said casing, and a circuit closer carried by said shaft and adapted to engage said contacts upon inward movement of said shaft.



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1,695,940. ELECTRIC SWITCH. ROBERT K. WINNING, Wauwatosa, Wis., assignor to Clum Manufacturing Co., Milwaukee, Wis. Original application filed Dec. 18, 1922, Serial No. 607,563. Divided and this application filed Aug. 31, 1925. Serial No. 53,507. 26 Claims. (Cl. 200—14.)

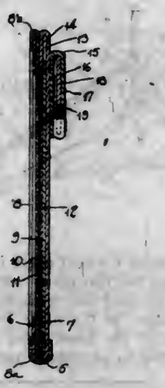


8. In a device of the character described, the combination with a terminal head providing a plurality of arcuately equidistant stations, certain of which comprise terminals and certain of which do not, conductors connecting terminals in two separate pairs at four consecutive stations, a conductor connecting terminals at another pair of stations spaced from the stations aforesaid, and a movable switch contactor rotatable with respect to said terminal head and provided with contact elements complementary to said stations, certain of said elements being interconnected and adapted to establish a plurality of circuits between said terminals while maintaining certain of said terminals in electrical connection throughout a plurality of successive positions, two of said elements being arcuately spaced for a distance equivalent to the spacing between two consecutive stations and two others of said elements being arcuately spaced a distance equivalent to the distance between three consecutive stations.

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1,695,941. AUTOMOBILE LICENSE-CERTIFICATE HOLDER. ORVILLE E. ABBEY, Corning, Iowa. Filed Aug. 1, 1927. Serial No. 209,862. 3 Claims. (Cl. 40—10.)

1. An automobile license certificate holder comprising a flat flexible envelope adapted to receive a license certificate and having an opening and a transparent sheet of material in the rear of said opening through which the certificate is visible, said envelope having an inlet at the top, a "sticker" adhesively secured to the upper portion of the back of the envelope and adapted to be adhesively secured to the automobile, said "sticker" embodying a sheet of adhesive material folded upon an intermediate transverse horizontal line to provide a front portion attached to the back of the



envelope and a back portion adapted to be secured to the automobile, and a stiffening sheet disposed between said front and back portions and having cut away lower corners, the lower corners of said back portion being folded around said corners and adhesively secured to said front portion.

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1,695,942. PROCESS FOR PROTECTING LAWNS. JOHN H. ATWATER, Jamestown, N. Y. Filed Jan. 7, 1927. Serial No. 159,744. 2 Claims. (Cl. 47—58.)

2. The process of making lawns consisting in preparing the ground, sowing seed thereon, covering the newly seeded ground with coarse textured fabric having moisture absorbing and retaining properties which rests directly on the ground, and which is woven to provide interstices between the warp and woof of a size to permit tender grass sprouts to freely pass therethrough, keeping said fabric moist, and allowing it to remain upon the ground until the seeds germinate.

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1,695,943. SPRING SHACKLE. ALBERT C. BALLY, Toledo, Ohio. Filed June 29, 1925. Serial No. 40,183. 8 Claims. (Cl. 267—56.)



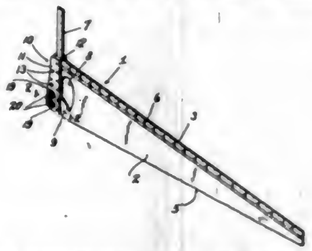
1. In a spring suspension for vehicles, a leaf spring having at one end thereof, a circular eye, a mounting bracket having therein a circular socket of less diameter than the normal diameter of the eye in which the eye of the spring is enclosed under compression for relative locking movement, said mounting bracket having closure heads at opposite sides of the spring, and serving to close the eye of such spring, and a compensating connection for the opposite end of the spring accommodating the extension and contraction of the spring under varying load tension.

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1,695,944. CARPENTER'S COMBINATION TOOL. OSCAR W. BANE, Cumberland, Md. Filed Jan. 18, 1928. Serial No. 247,625. 2 Claims. (Cl. 7—13.)

1. In a carpenter's combination tool, a saw blade having an upper horizontal straight edge, one end of the blade

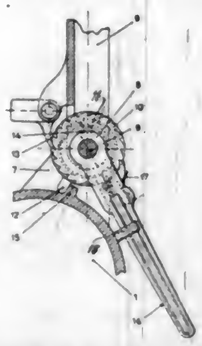
being disposed at right angles to said straight edge, an extension formed on said end of the blade and extending upwardly from the horizontal straight edge at right angles thereto, said end of the blade being formed with a hand hole, a handle employing a pair of complementary plate sections secured on the opposite sides of the said ends of



the blades, the inner vertical edges of said plates being disposed in the same vertical plane with the inner edge of the extension, said vertical inner edges of the extension, said vertical inner edges of the plate lying flush with the adjacent side edge of the hand hole, the outer edges of the plate being shaped to provide a hand grip.

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1,695,945. SPRING-BELT STRETCHER. HENRI BENIT, Paris, France, assignor to Compagnie Generale d'Electricite, Paris, France. Filed July 19, 1926, Serial No. 123,533, and in France July 25, 1925. 2 Claims. (Cl. 308—11.)



1. A tension regulating device for driving belts comprising a support bracket, a pulley supporting member pivotally connected with the bracket, a ratchet rotatably mounted on the pivot including a cylindrical body and a toothed wheel fixed on one end of the body, a tension spring wound about the body having one end secured thereto and the opposite end attached to the pulley supporting member, means for securing the ratchet wheel against rotation in one direction, and a lever operatively associated with the pivot and ratchet wheel separated to permit rotation of the ratchet wheel in opposite direction to increase the tension of the spring.

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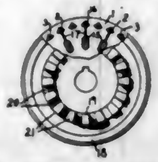
1,695,946. INDUCTION MOTOR. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 29, 1924. Serial No. 752,993. 5 Claims. (Cl. 172—120.)



4. In an induction motor, a rotor having a circumferential row of inner openings, each opening having a long narrow portion extending radially outward therefrom, and having outer openings arranged near the periphery and arranged radially opposite the spaces between the inner openings, conductors in said openings, end rings of relatively low resistance connecting the ends of the conductors in the inner openings and end rings of relatively high resistance connecting the ends of the conductors in the outer openings.

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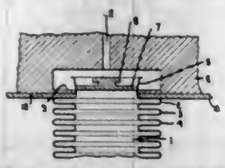
1,695,947. METHOD OF FORMING INDUCTION MOTORS. SVEN R. BERGMAN, Nahant, Mass., assignor to General Electric Company, a Corporation of New York. Original application filed Nov. 29, 1924, Serial No. 752,993. Divided and this application filed Feb. 27, 1928. Serial No. 257,203. 2 Claims. (Cl. 29—155.5.)



1. The method of forming an induction motor squirrel cage on a magnetic core having deep conductor receiving openings therethrough, which consists in casting conductors in said conductor receiving openings and integral end rings of large cross-section, one at each end of said core, and thereafter separating each of the end rings into separate rings, one formed with the portions of the conductors in the top of the conductor receiving openings and the other formed with the portions of the conductors in the bottom of the conductor receiving openings.

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1,695,948. CLOSED METALLIC CORRUGATED WALL AND METHOD OF MAKING SAME. FRED K. BEZZENBERGER, Cleveland Heights, Ohio, assignor, by mesne assignments, to The Fulton Sylphon Company, Knoxville, Tenn., a Corporation of Delaware. Filed Aug. 21, 1924. Serial No. 733,322. 3 Claims. (Cl. 22—203.)



1. In a method of forming an integral closure about the end of a metal bellows, the steps which consist in snugly fitting within the projecting end portion of a bellows a metal plate, mounting such end within a mold chamber fitting snugly against the end portion of said tube adjacent a convolution therein, and then pouring molten metal within said chamber about said end while protecting the adjacent convolution of said bellows from the heat of the molten metal.

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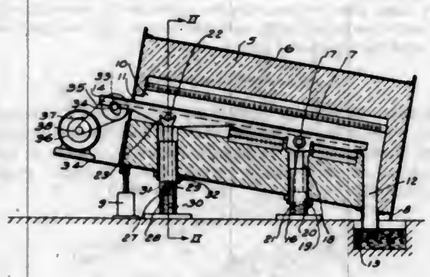
1,695,949. DUPLEX SCREW DRIVER. PETER E. BORKLUND, Spokane, Wash. Filed Jan. 16, 1928. Serial No. 247,082. 7 Claims. (Cl. 145—52.)



1. In a duplex screw driver; a bit bar having a bit on each end thereof, a sleeve encasing said bar and having a set of screw holding fingers on each end thereof and being slidable on said bar to dispose either set of fingers in coacting or retracted relation with the respective bit thereof, a forked holding shank, means pivoting said bar in the fork of said shank for end for end adjustment of said bar with respect to said shank to dispose either bit in projecting relation from said shank, and a ferrule slidable on said shank for locking said bar in its adjusted position.



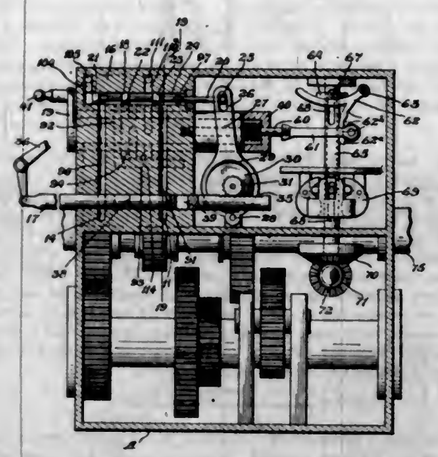
1,695,950. FURNACE. CRANSTON H. CARPENTER, Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 17, 1926. Serial No. 123,218. 8 Claims. (Cl. 263—6.)



1. In a furnace, in combination, an inclined plate having corrugations forming article-receiving paths, and means to agitate said plate to cause the articles to travel along said paths.

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1,695,951. POWER TRANSMISSION. PHILIP JOHN CUNNINGHAM, New York, N. Y. Filed July 29, 1927. Serial No. 209,360. 12 Claims. (Cl. 74—97.)

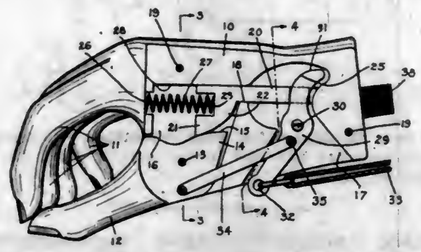


1. A transmission unit for motor vehicles and the like, adapted to transmit power to motor vehicles at various speeds, comprising a casing, transmission gearing operatively mounted within the casing, including sliding gears, a solid block formed in the casing provided with a pair of cylinders, a series of bores, and a sereis of conducting passageways, pistons in said cylinders, and a series of intercommunicating valves in said bores, rod means connecting the pistons with the transmission sliding gears, operating means associated with said valves, and a master control lever adapted to control the operativeness of the transmission.

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1,695,952. ARTIFICIAL HAND. DAVID W. DORRANCE, Minneapolis, Minn. Filed Feb. 5, 1926. Serial No. 86,214. 4 Claims. (Cl. 3—12.)

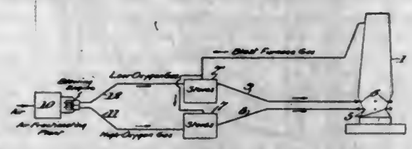
1. An artificial hand including a main portion provided with fingers and with a thumb pivoted thereon and formed with a cam surface, a traveler reciprocably mounted within said main portion and formed with a cam thereon adapted to coact with said cam surface to resist opening swinging movement of said thumb by extraneous force, also to impart closing swinging movement to the thumb upon movement of the traveler in one direction, an expansion spring



operating against said traveler to move the same in that direction, and an actuating lever pivoted on said main portion, one end of said lever co-operating with said traveler to shift the same against the action of said spring and thereby free the traveler from the thumb.

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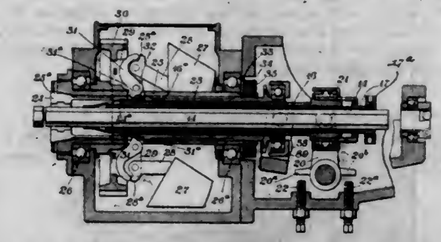
1,695,953. METHOD OF PREHEATING THE CHARGE IN SHAFT FURNACES. ALEXANDER L. FEILD, Jackson Heights, N. Y., assignor to The Linde Air Products Company, a Corporation of Ohio. Filed Apr. 25, 1924. Serial No. 709,012. 8 Claims. (Cl. 75—14.)



1. Process of preheating the charge in shaft furnaces, comprising passing a hot, non-smelting gas comprising an oxygen-nitrogen mixture in which the ratio of oxygen to nitrogen is less than that in atmospheric air into the furnace above the smelting zone.

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1,695,954. CLUTCH MECHANISM FOR BAR MACHINES. LEE A. FRAYER, Columbus, Ohio. Filed Mar. 23, 1925. Serial No. 17,569. 8 Claims. (Cl. 29—62.)



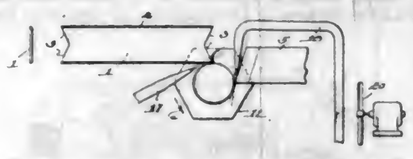
1. In a bar feeding machine, the combination, of bar feeding means, a chuck tube and chuck and rotating means therefor, a lever pivoted with the rotating means and engaging the chucking member and a centrifugal element to act on said lever to cause the chucking of the fed bar, said centrifugal element being movable independently of said lever.

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1,695,955. METHOD OF BLANKING METALLIC ARTICLES. LEE A. FRAYER, Columbus, Ohio. Filed June 11, 1925. Serial No. 36,529. 4 Claims. (Cl. 29—1.)

1. The method of cutting metal, which consists in producing a cut in a metallic body by a primary tool having a

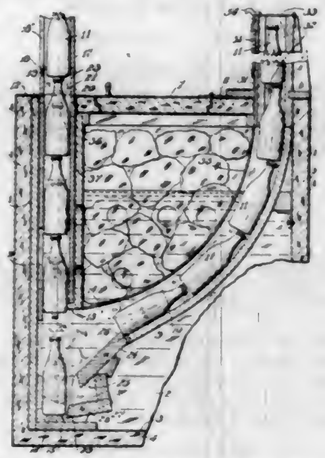
V-shaped cutting edge, in finishing the cut by means of a secondary relatively wider cutting tool operating in the cut produced by the primary tool and simultaneously



therewith, the primary tool being so arranged with respect to the secondary tool that it can only cut along its V-shaped cutting edges.

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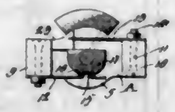
1,695,956. BOTTLE-DISPENSING REFRIGERATOR. CHESTER A. FRICK, Muncie, Ind., assignor to Glascock Brothers Mfg. Company, Muncie, Ind., a Corporation of Indiana. Filed Aug. 18, 1924. Serial No. 732,641. 9 Claims. (Cl. 312—36.)



1. In a bottle dispensing refrigerator, the combination with a refrigerating container, of a bottle lifting means reciprocally mounted to discharge the top-most of a stack of bottles vertically disposed in said container one on top of the other, said means having means for engaging the bottom bottle in said stack to lift the stack vertically, and means for delivering a bottle in a vertical position beneath the lifted stack.

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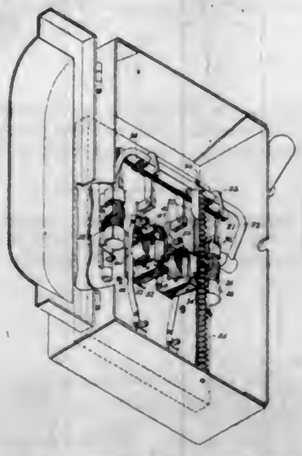
1,695,957. SWITCH. HUGO GERNSBACK, New York, N. Y. Filed Oct. 26, 1925. Serial No. 64,980. 4 Claims. (Cl. 200—155.)



1. A switch comprising a flat body of insulation, rearwardly projecting blocks having vertical bores therein formed on the rear face of the body at the opposite ends thereof, the body between said blocks being provided with an opening, a hub sleeve fitted in said opening and projecting forwardly from the front face of the block, a shaft rotatably mounted in said hub sleeve, and a manipulating crank at the front end of said shaft, a semicircular shaped bridge piece carried by the inner end of the shaft, a contact spring secured to the upper face of one block and projecting inwardly therefrom and arranged at the front of said bridge piece, a second switch contact secured to the lower face of the other block and extending inwardly therefrom, said last mentioned spring contact having an inwardly struck tit formed therein, the bridge piece having a notch formed therein for the reception of said tit, and a name plate having an axial opening for receiving said hub sleeve provided with suitable indicia for co-operation with said manipulating crank.

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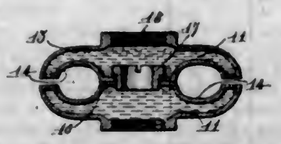
1,695,958. ELECTRIC SWITCH. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a Corporation of Connecticut. Filed Apr. 23, 1924. Serial No. 708,355. 3 Claims. (Cl. 175—294.)



1. An enclosed switch comprising four movable switch members, a hand operable crank therefor, a spring tending to move said switch to open circuit position, an electromagnet in shunt with two of said switch members for holding all of said members in a closed circuit position, a supplemental switch in circuit with said magnet, a second electromagnet connected in shunt with the other two switch members for controlling said supplemental switch, an overload relay in series with each of two of said switch members, each relay having a heating element and a thermostatic member adapted to automatically open the circuits through one of said electromagnets.

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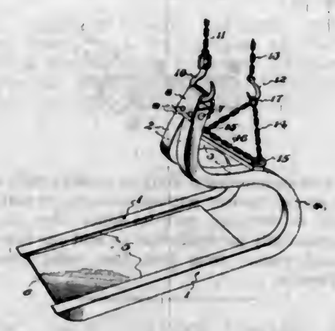
1,695,959. RADIATOR. JOSEPH WILLIAM GUIMONT, Lachine, Quebec, Canada, assignor to Ludger Lemieux, Montreal, Canada. Filed Nov. 18, 1927. Serial No. 234,267. 3 Claims. (Cl. 257—151.)



2. A radiator section comprising a pair of complementary longitudinally divided semi-sections, each semi-section including a rectangular shaped conduit having longitudinally directed inwardly projecting corrugations formed in the interior wall at the sides thereof, means for detachably connecting the semi-sections so that the corrugations will be arranged in opposed positions to form a circulating duct communicating with the atmosphere through a recess formed between the marginal interior sides of the semi-sections, and means for connecting the assembled sections to form a radiator unit.



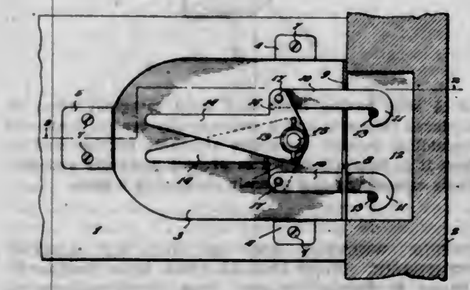
1,695,960. DEVICE FOR HANDLING RAILROAD TIES. JESSE HACKWORTH and WILLIAM KUEHNE, Ironton, Ohio; said Hackworth assignor to said Kuehne. Filed Aug. 6, 1927. Serial No. 211,223. 1 Claim. (Cl. 294—67.)



An article handling device comprising a hook consisting of bars joined at their upper ends and consisting of bars joined at their upper ends and bent rearwardly and then downwardly in spaced relation and forwardly to provide a vertical shank and horizontal tines projecting forwardly beyond the shank and adapted to extend beneath articles to be lifted, means for connecting the upper end of said hook with a suspending member, a cross bar extending between and secured to the rearwardly extending portions of said bars, adjacent the downwardly bent portion thereof, eyes being provided at the ends of the cross bar, and a flexible member threaded through the eyes of said cross bar and extending upwardly therefrom and adapted to be engaged with a suspending member.

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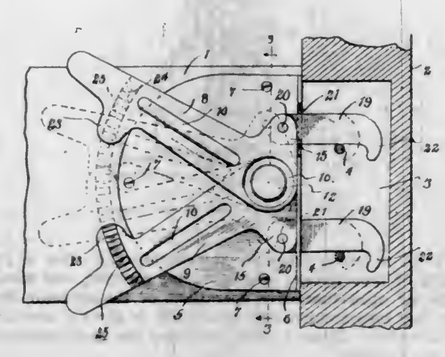
1,695,961. SIDE-RAIL FASTENER FOR BEDS. PHILIP M. HOWSE, Nashville, Tenn., assignor to Hol-Fast Bedlock Company, Nashville, Tenn., a Corporation of Tennessee. Filed May 5, 1927. Serial No. 189,055. 8 Claims. (Cl. 5—298.)



1. A fastener comprising a body adapted to be secured to an article to be supported, a flange extending transversely from said body and formed with slots, a stem extending from said body, levers pivotally carried by said stem and having handle portions movable towards and away from each other, arms pivotally connected with said levers and extending through said slots and having their outer end portions provided with support-engaging means, and means carried by said stem to releasably secure the levers in a set position.



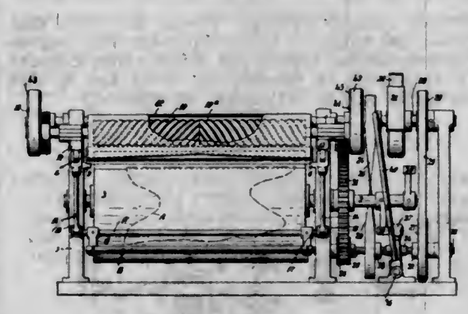
1,695,962. SIDE-RAIL FASTENER FOR BEDS. PHILIP M. HOWSE, Nashville, Tenn., assignor to Hol-Fast Bedlock Company, Nashville, Tenn., a Corporation of Tennessee. Filed June 8, 1927. Serial No. 197,395. 9 Claims. (Cl. 5—298.)



1. A bed rail fastener comprising a body adapted to be secured against a bed rail and having a flange at one end to bear against a bed post and formed with slots, levers disposed one against the other and at one end pivoted to said body about a common pivot, the pivoted ends of said levers having arcuate edges bearing against said flange, anchors pivoted to said levers and projecting from said flange, and the levers being formed with side extensions adjacent their free ends and stamped to form racks extending transversely across said levers and side extensions and having teeth to interlock and releasably retain the levers in a set position.

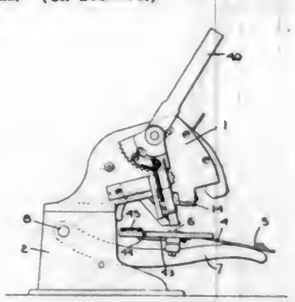
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1,695,963. HIDE SETTING-OUT AND OILING MACHINE. KARL WILLIAM KOENIGER, Orange, N. J., assignor to The Turner Tanning Machinery Company, Portland, Me., a Corporation of Maine. Filed Aug. 30, 1924. Serial No. 735,080. 28 Claims. (Cl. 149—20.)



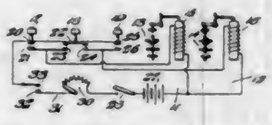
1. A machine of the character specified comprising a member to support hides, means to removably secure the hides to said member, means to set out the hides on said member, mechanism to actuate said member with respect to said setting out means, and means to apply oil to the set out hides.

1,695,964. PRINTING MACHINE. GEORGE H. LANO, Boston, Mass. Filed Nov. 7, 1925. Serial No. 67,503. 20 Claims. (Cl. 101—72.)



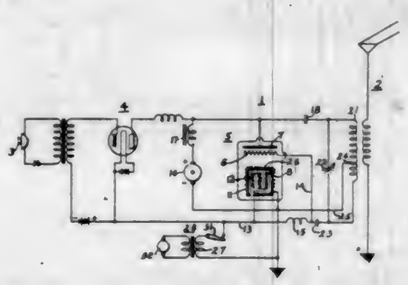
1. In a listing machine, the combination with a plurality of type wheels, of an actuator therefor, and means whereby upon successive operations of the actuator first one and then another type wheel will be given a plurality of successive forward steps, one step for each operation of the actuator.

1,695,965. CONTACT MECHANISM FOR TYPEWRITER-KEY PUNCHES. WILLIAM W. LASKER and CHARLES A. MEZGER, Brooklyn, N. Y., assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y., a Corporation of Delaware. Filed Feb. 10, 1925. Serial No. 8,310. 12 Claims. (164—113.)



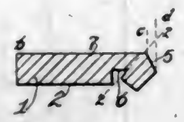
1. In a typewriter key punch mechanism, the combination of a punch, electrical means for operating said punch, a circuit including said means, keys for operating a typewriter, a contact means controlled by one of said keys for partially closing said circuit, and contact means automatically operated for completing the closing of said circuit.

1,695,966. RADIO SYSTEM. DONALD G. LITTLE, Edgewood, and ROBERT L. DAVIS, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 6, 1927. Serial No. 181,364. 11 Claims. (Cl. 250—27.)



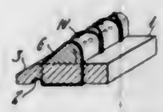
1. In combination, a thermionic device having an electron-emissive cathode, a grid leak resistor, and means whereby energy dissipated in said resistor may be utilized to heat said cathode.

1,695,967. WELT AND METHOD OF MAKING. HARRY LYON, Brockton, Mass., assignor to John A. Barbour, Brookline, Mass., and Perley E. Barbour, Quincy, Mass., doing business as a Copartnership under the name and style of Barbour Welting Company, Brockton, Mass. Filed Aug. 14, 1924. Serial No. 731,932. 10 Claims. (Cl. 36—78.)



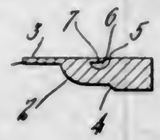
1. Welting comprising a strip of substantially rectangular cross section incised without removal of material longitudinally in one face near its inner edge, the incision being substantially perpendicular to said one face adjacent thereto and remote from that face being substantially parallel thereto.

1,695,968. BEADED WELTING. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass. Filed Oct. 7, 1925. Serial No. 61,064. 8 Claims. (Cl. 36—78.)



1. Welting comprising a base strip, and a bead fixed to one face and parallel to one edge of the base strip by a continuous strand fastening laced over said bead.

1,695,969. REVERSE WELTING AND METHOD OF MAKING. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass. Filed Oct. 7, 1925. Serial No. 61,065. 15 Claims. (Cl. 36—78.)



1. A welt having inner and outer marginal areas of unreduced thickness and a substantially central weakened longitudinal portion to receive attaching stitches and at which it is laterally folded to present upwardly and outwardly extending edges when in position in a shoe.

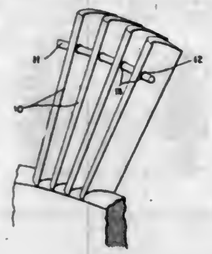
1,695,970. WELTING AND METHOD OF MAKING THE SAME. HARRY LYON, Holbrook, Mass., assignor to Perley E. Barbour, Quincy, Mass., doing business as Barbour Welting Company. Filed Dec. 23, 1926. Serial No. 156,712. 4 Claims. (Cl. 36—78.)



1. Welting for boots and shoes comprising a strip of grain leather having a grain corner removed at its inner edge, a longitudinal incision near said edge extending from the flesh side inwardly and then turning toward said edge, and having the marginal portion between said incision and inner edge displaced toward the grain side with the entire inner edge positioned oblique to the grain side and said incision opened to present a stitch-receiving groove.

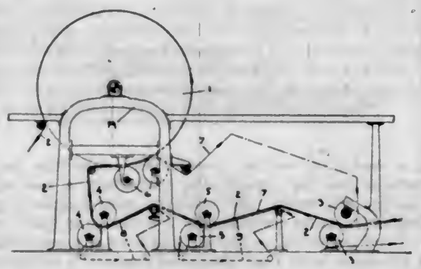


1,695,971. TURBINE-BLADE LASHING. NORMAN L. MOCHEL, Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 28, 1927. Serial No. 229,466. 2 Claims. (Cl. 253—77.)



1. In a turbine the combination of a group of turbine blades, made of relatively non-corrosive iron alloy and a substantially homogeneous nickel lashing member connected to the blades.

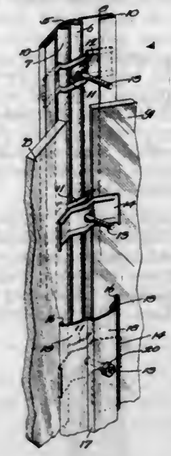
1,695,972. PAPER-MAKING MACHINERY. ÉRIK ALEXANDER ÖHLIN and FRANS OSKAR CARLSSON, Hyltebruk, Sweden. Filed Mar. 29, 1928, Serial No. 265,715, and in Sweden Apr. 9, 1927. 2 Claims. (Cl. 92—49.)



2. An improved paper making machinery comprising a single drying cylinder, a couching press, a plurality of intermediate presses between said couching press and said drying cylinder, a common upper drying felt and separate under felts for said intermediate presses, the felt for the intermediate press adjacent to the couching press being of comparatively loose stuff produced by hard-twisted yarn, and the felt for the intermediate press adjacent to the drying cylinder made by a more tight-woven felt material with a smooth surface.

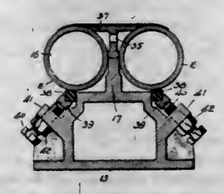
1,695,973. ADJUSTABLE CORNER BAR FOR PLATE-GLASS WINDOWS. HARRY A. OLSSON, Chicago, Ill. Filed May 9, 1927. Serial No. 189,769. 14 Claims. (Cl. 189—78.)

1. In a device of the class described, a center strip having an outer face portion and tubular marginal portions, side wings for bracing glass panes from one side, said wings having marginal tubular portions swivelingly engaging the external surface of the tubular portions of the center strip, means at the outer extremities of the wings for



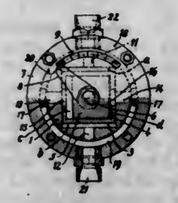
holding said wings to their work, means for bracing the glass from the opposite side, and means for holding said parts assembled.

1,695,974. ROLLER VACUUM EXTRACTOR. GEORGE PEEBLES, Elizabeth, N. J., assignor to Selbec, Inc., New York, N. Y., a Corporation of New York. Filed Sept. 23, 1925. Serial No. 58,119. 11 Claims. (Cl. 92—51.)



1. In a machine for extracting liquid from saturated fabric, in combination, a vacuum box having side and end walls, spaced rollers journalled in said end walls and each thereof having its upper surface tangent with the fabric sealing means arranged between each side wall and the adjacent surface of a roller comprising a strip of rectangular compressible section sealing material, a backing strip for the sealing material and adjustable means carried by the side walls of the box and engaged with the backing to hold the sealing material in contact with both the surfaces of the roller and side wall.

1,695,975. REVOLVING-CYLINDER AND RECIPROCATING-PISTON PUMP. EDUARD PELICH, Prague, Czechoslovakia. Filed Oct. 26, 1925, Serial No. 64,942, and in Czechoslovakia Oct. 27, 1924. 6 Claims. (Cl. 103—163.)



1. In a revolving piston pump with reciprocating prismatic pistons arranged slidably at right angles to each

other in a driven disc rotatably mounted in an outer casing, the inner prismatic piston being rotatably arranged on a journal eccentrically mounted in the casing of the pump; the combination of distributing means on the outside of the rotatable disc, the suction and discharge passages of said distributing means being in communication with the suction and discharge passages of the casing; openings in the rotatable disc in front of the working faces of the prismatic piston sliding in said disc, and openings in the said rotatable disc and in the said prismatic piston in front of the second, inner prismatic piston sliding in the first named prismatic piston, said openings connecting the working spaces of both prismatic pistons with the passages of the distributing means.

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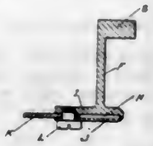
1,695,976. CONTAINER FOR LUBRICANTS. HARRISON O. PRESTON, Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y., a Corporation of Delaware. Filed July 31, 1924. Serial No. 729,241. 1 Claim. (Cl. 206—56.)



A grease gun cartridge comprising a shell having a cylindrical body portion adapted to be inserted substantially full length into a grease gun, an external annular flange at the lower end of the shell for preventing the further insertion of the same into said grease gun, a disk movable within the shell and an internal annular constriction at the lower end thereof for preventing movement of said disk in an outward direction.

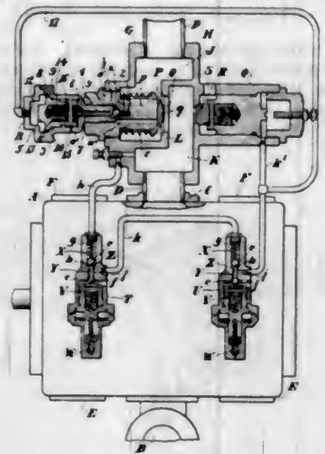
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1,695,977. FRENCH CORD BINDER. WILLIAM J. REAGAN, Lynn, Mass. Filed Aug. 5, 1927. Serial No. 210,972. 1 Claim. (Cl. 112—139.)



An attachment for sewing machines, comprising a bracket for mounting on the foot of a sewing machine, a part integral with and extending at an angle to the body of the bracket and having spaced apart relatively parallel portions forming a U-shaped, channeled construction in cross-section between which binding material is guided to the needle of the machine, and a filler member between the portions to adjust the width of the channel receiving the binding, said member being slotted to receive a holding screw for fixing it in adjusted position, and a handle portion integral with the filler member for manipulating the same.

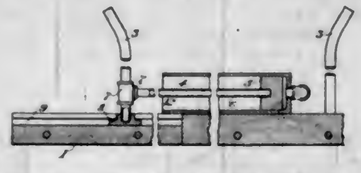
1,695,978. DAMPER FOR CHECK VALVES. SNOWDEN B. REDFIELD, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 17, 1928. Serial No. 262,436. 11 Claims. (Cl. 230—27.)



1. In a compressor, the combination of a cylinder and a discharge line, a check valve controlling communication between the cylinder and the discharge line, and pressure actuated means to maintain the check valve closed during the acceleratiog, stopping and idle periods of the compressor and to enable said check valve to remain constantly open during the running period of the compressor.

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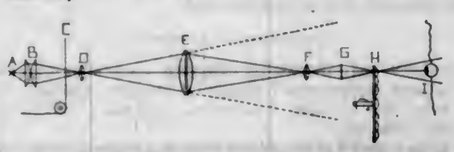
1,695,979. TUBE-TESTING MACHINE. MATTHEW REID, Vancouver, British Columbia, Canada. Filed Aug. 12, 1926. Serial No. 128,806. 1 Claim. (Cl. 73—51.)



In a device for testing a submersed inner tube for an automobile tire the combination comprising, a base member having two metal tubes forming right angularly projecting supports for and adapted to receive said inner tube, one of said projecting supports being fixed and one slidable in a direction to or from said fixed support, a cylinder of relatively thin metal, a piston engaging said cylinder, a rod secured to said piston, said rod being attached to said slidable support by a T-piece pipe fitting, means for admitting and releasing compressed air respectively to and from said cylinder, and means secured to the said base member for suitably guiding said slidable support.

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1,695,980. LIGHT-CONVERGING-LENS SYSTEM. CHARLES FRANCIS JENKINS, Washington, D. C. Filed June 5, 1925. Serial No. 35,118. 11 Claims. (Cl. 178—6.)



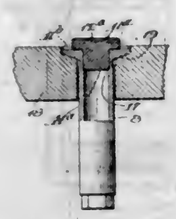

1. The continuation of means for forming an image of an object, means for giving linear movement to said image,



means for forming an image of said first image, means for giving linear movement to said second image a plurality of time and at approximately right angles to the movement of said first image, a light sensitive cell located to be swept by said second image, and a convex lens located in the plane of the first image, and being adapted to cause more of the imaging light to be projected through the second image forming means and to the light sensitive cell without affecting the focusing operation of the first and second image forming means.

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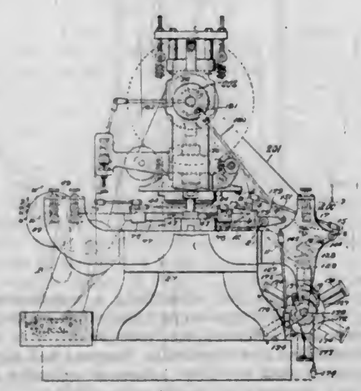
1,695,981. METHOD OF MAKING VALVE TAPPETS. GEORGE R. RICH, Battle Creek, Mich., assignor, by mesne assignments, to Wilcox-Rich Corporation, a Corporation of Michigan. Filed Oct. 8, 1927. Serial No. 224,999. 1 Claim. (Cl. 29—156.7.)



The method of producing hollow, composite metal headed valve tappets, which consists in boring out the shank of a headed tappet body, inserting the neck of a headed cast iron plug into the bore, and fusing the head of the plug to the head portion of the tappet body, said neck portion of the plug acting as a retainer for preventing the molten portion of the plug from escaping through the bore of the tappet body during the welding process.

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1,695,982. MECHANISM FOR COUNTING AND STACKING ARTICLES. HARRY E. RUCKERT, Philadelphia, Pa., assignor to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Original application filed July 18, 1924, Serial No. 726,863. Divided and this application filed Mar. 30, 1927. Serial No. 179,670. 13 Claims. (Cl. 93—93.)



1. In a machine of the character described, the combination with mechanism for delivering articles, of a plurality of containers each having a cross-section corresponding to the outline of the articles to be stacked, automatic means for moving said containers successively into position to receive said articles as they are delivered, and means for packing said articles in said containers.

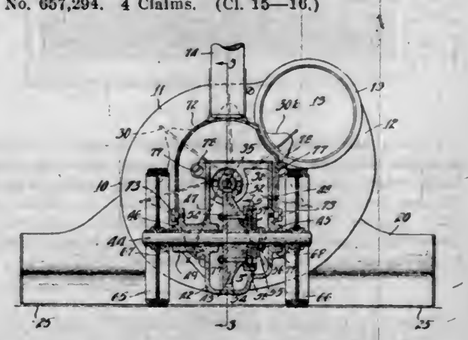
1,695,983. METHOD OF MAKING BOBBED-HAIR HOLDERS. HARUKO SAITO, Tokyo, Japan. Filed Sept. 24, 1925. Serial No. 58,331. 1 Claim. (Cl. 132—20.)




A method of making a comb consisting in forming it by bending a steel wire into M form with any desired space between two adjacent bendings, repeating the process until a desired length is reached, twisting all the bendings into teeth, leaving the two outer legs longer than the teeth, and tempering it.

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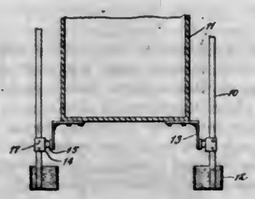
1,695,984. SUCTION CLEANER. WILLIAM E. SHERBONDY, Cleveland, Ohio. Filed Aug. 14, 1923. Serial No. 657,294. 4 Claims. (Cl. 15—16.)



3. In a suction cleaner, the combination with a fan casing and a suction nozzle communicating therewith, of a detachable plate forming the rear wall of the fan casing and provided with an opening surrounded by a rearwardly extending annular flange to make a discharge passage from the fan chamber, a gear casing secured to said removable closure plate, a fan shaft journalled in the gear casing and projecting into the fan chamber, a fan on the fan shaft within the fan chamber, and means for driving the fan shaft.

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1,695,985. FRICTION-GUIDE LUBRICATOR. WILLIAM SPULLIES, Maywood, N. J. Filed July 1, 1927. Serial No. 202,892. 1 Claim. (Cl. 184—21.)

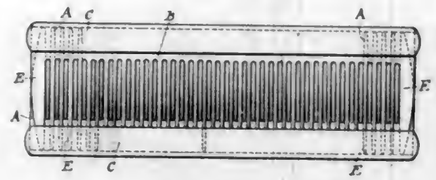


The combination of stationary lubricant containers with guide lubricators for elevators dipping into said containers at the end of the downward motion, said lubricators each comprising a chambered body adapted to be secured to the elevator car, means for supplying the chamber of said body with the lubricant, slidable blocks in said chamber having depressions on the inner faces of said blocks, communications between said depressions and said lubricant supply means, hollow pins in said body on which said blocks are

mounted, springs wound about said pins for pressing said blocks into frictional engagement with the elevator guide, on opposite sides thereof, a substantially centrally located chambered block in said chamber, means for pressing said center block into frictional engagement with the rear edge of the elevator guide bar for lubricating the same by lubricant from its channel communicating with the lubricant supplying means, and a plurality of vertically disposed screws in said lubricant supply means and said communications for allowing a thorough lubrication of three sides of the guide by a thin coat of lubricant and preventing smearing.

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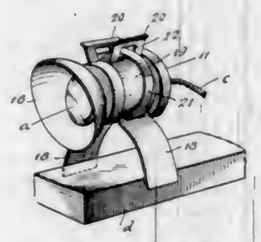
1,695,986. COMB SLIDE, BINDER, OR THE LIKE FOR LADIES' HAIR. CHARLES ERNEST STACEY, London, England, assignor to Du Pont Viscoloid Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 7, 1927, Serial No. 231,703, and in Great Britain Nov. 30, 1926. 6 Claims. (Cl. 132—21.)



1. In a hair waver, in combination, a pair of mating comb-like members adapted to lie the one upon the other tooth-to-back, one of said members having a portion upon its back overlying the body of the member, to receive the other member between said portion and body, and means upstanding from one of said members in proximity to said overlying portion, to engage the other member.

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1,695,987. PORTABLE ELECTRIC LAMP. ULAICH F. L. STEINDORFF, New York, N. Y. Filed Oct. 20, 1924. Serial No. 744,687. 4 Claims. (Cl. 240—52.)

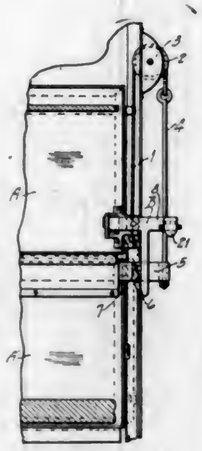


2. A portable electric lamp comprising in combination, a member arranged for detachable connection, at one end, with a source of electricity and, at its other end, to removably receive an electric lamp, a pair of opposed bearing members engaging said member and together constituting a bearing in which the latter is frictionally mounted, opposed clamping members extending from said bearing members and arranged to project outwardly from said first mentioned member, and a spring for developing a resilient clamping action in said clamping members and said bearing members.

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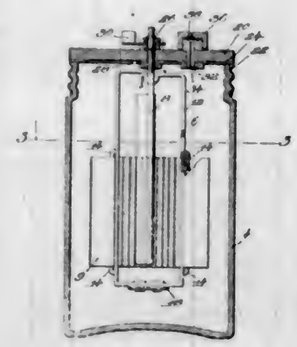
1,695,988. ELEVATOR-DOOR-OPERATING MECHANISM. HERMAN C. WALDMAN, St. Louis, Mo. Filed Aug. 4, 1927. Serial No. 210,562. 9 Claims. (Cl. 187—52.)

5. In an elevator structure, an elevator shaft provided with two doors located at opposite sides of the shaft at the same level or floor, a car that travels in said shaft, two separate and distinct door operating mechanisms on said car, each of which comprises a pair of door operating members, which, after being engaged with their co-operating door, will move in a direction to open the door, an electric motor on the car, and clutches by which the operator in charge of the car can connect said motor with either of said door operating mechanisms.



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1,695,989. ELECTROLYTIC CELL. SAMUEL T. WOODHULL, Winchester, Mass., assignor to The Amrad Corporation, Medford, Mass., a Corporation of Ohio. Filed June 23, 1926. Serial No. 117,987. 5 Claims. (Cl. 175—315.)

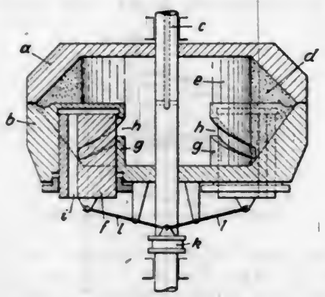


2. An electrolytic cell comprising a non-filming electrode, a filming electrode support including a plurality of rigid arms, and a filming electrode including a unitary sheet surrounding and attached to the arms and connected together at its ends, the sheet having an extended surface formed by a plurality of closely spaced folds.

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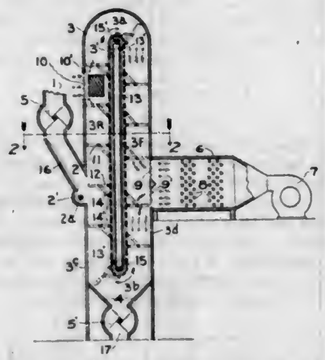
1,695,990. CENTRIFUGE. LUDWIG ALTPETER, Trier, Germany. Filed Jan. 26, 1927, Serial No. 163,603, and in Germany Jan. 30, 1926. 5 Claims. (Cl. 233—47.)

1. A centrifugal machine, comprising in combination, a two-part horizontally separable drum mounted for rotation, a movable member disposed in the lower part of said drum and having an outlet passage therethrough normally out of communication with the drum, and means for moving said member to carry its outlet passage into communication with the drum at varying distances from the center of said drum.



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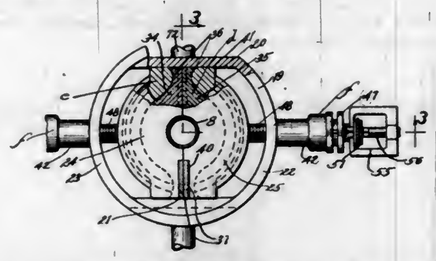
1,695,991. SEED-COTTON-DRYING APPARATUS. CHARLES ABEL BENNETT, Tallulah, La., dedicated, by assignment, to the Government and the People of the United States of America. Filed Mar. 22, 1928. Serial No. 263,811. 3 Claims. (Cl. 34—12.) (Granted under the act of Mar. 3, 1883.)



1. A cotton drying apparatus of the character described including an enclosed vertical cabinet with substantially air-tight means for introducing and discharging seed-cotton therefrom, endless conveyors arranged within said vertical cabinet and provided with a series of perforated trays or skeleton screened frames attached at substantially right angles to said endless conveyors, a partition or center division centrally located with respect to said vertical cabinet and located between the shafts of said endless conveyors, means for loading the series of skeleton screened frames or trays with seed-cotton, means for conveying said tray loads of seed-cotton from the cotton inlet to the cotton discharge outlet, a heated atmosphere generator or radiation elements, inlets and outlets for continuous passage of heated atmosphere through the several passages within the said vertical cabinet, means for introducing said heated atmosphere into said vertical cabinet and discharging heated atmosphere therefrom without loss of seed-cotton, means for rearranging and turning over of the seed-cotton during its passage through the said vertical cabinet, means for securing direct penetrating of the trays of seed-cotton by the currents of heated atmosphere so that the dryest heated atmosphere contacts with the dryest cotton, and means for dumping said trays at the conclusion of the drying exposure within the said vertical cabinet.



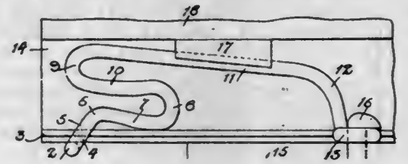
1,695,992. COMBINED CASING-HEAD PACKER AND BLOW-OUT PREVENTER. JOHN BERGSTEN, Redondo Beach, Calif., assignor of one-half to N. W. Hendershot, Lomita, Calif. Filed Oct. 27, 1924. Serial No. 745,974. 3 Claims. (Cl. 166—15.)



1. In a device of the character disclosed, a casing head formed with an enclosure, packing means formed of flexible material and constituting a split annulus within said enclosure, upper and lower slotted discs for said packing means, said upper and lower discs enclosing the said packing means, and further means received between said discs and adapted to bear against the periphery of said packing means to compress the same to in part force the packing means through the slotted portions of the discs into engagement with the casing head.

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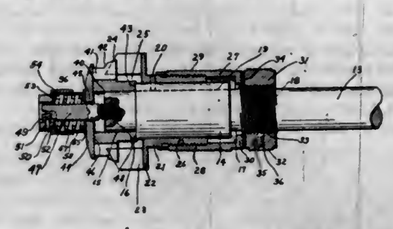
1,695,993. ANTI-RAIL-CREEPING DEVICE. JAMES B. BROWNRIDGE, Toronto, Ontario, Canada. Filed Aug. 6, 1928. Serial No. 297,667. 6 Claims. (Cl. 238—315.)



1. An anti-rail-creeping device, embracing a transverse bottom bar adapted to rest in contact with the underside of the bottom flange of a rail, and with each end of which is connected an inward-upward extending transverse section, the said sections being spaced above said bar; a longitudinally-disposed loop connected with each of the said sections and located one at each side of the vertical flange of a rail, and adapted to rest in contact with the top side of said bottom flange; a lever section connected with each of the said loops, and means whereby each of the said lever sections is coupled to a fixed support therefor pinching the bottom flange of said rail between said loops and said transverse bar.

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1,695,994. CUTTER-GUARD CONSTRUCTION. FRANK CATANZARITE, Danville, Ind. Filed Dec. 23, 1927. Serial No. 242,146. 8 Claims. (Cl. 12—92.)

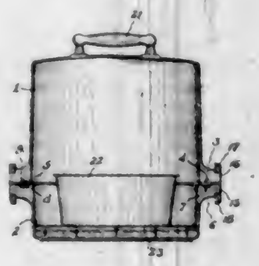


1. In combination with a rotatable driving shaft, a radially toothed guard rigid thereon for rotation there-

with and a radially toothed cutter-wheel carried by the shaft for rotation, means for longitudinally adjusting the guard on said shaft and relative to the cutter, means for locking the adjusting means in the adjusted position, means for clamping the cutter to the spindle, and other means having a quickly detachable and attachable connection with said shaft for securing the clamping means in clamping relation.

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1,695,995. COOKING VESSEL. EARL V. COULSTON, Shaker Heights, Ohio. Filed Oct. 9, 1926. Serial No. 140,463. 7 Claims. (Cl. 53—1.)



1. A steam retaining vessel comprising upper and lower sections whose outer edges are provided with outwardly diverging surfaces, a gasket interposed between said outer edges and having surfaces engaging said diverging surfaces, said gasket having a coefficient of expansion less than the sections of the vessel, and means to secure the vessel sections together, the construction being such as to cause the deformation of the vessel sections, within elastic limits, at a predetermined pressure to permit the escape of steam at the joint formed by the gasket and the diverging surfaces.

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1,695,996. SHOE SHANK. ROBERT DAVIS and ISAAC TAPMAN, Brooklyn, N. Y. Filed May 13, 1927. Serial No. 190,977. 4 Claims. (Cl. 36—76.)

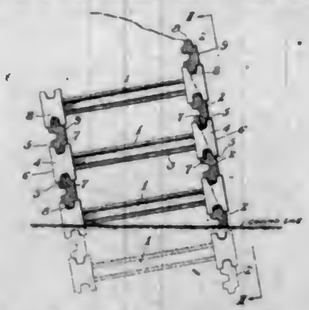


2. A shoe shank comprising separately constituted sections, one a leather heel seat arranged with the grain side of the same upward and the other a leather forepart arranged with the flesh side of the same upward, said parts being shaped and united to constitute one an extension of the other.

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1,695,997. RETAINING-WALL STRUCTURE. WILLIAM H. EVERS and JOHN W. SHIMER, Lakewood, Ohio, assignors to the R. C. Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 2, 1925. Serial No. 20,038. 10 Claims. (Cl. 61—39.)

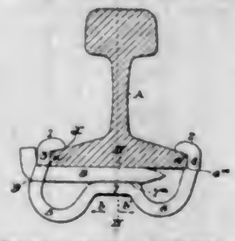
8. A retaining wall structure comprising upwardly and downwardly spaced stretchers and laterally spaced headers, the headers being laid between successively occurring stretchers; each stretcher being provided in its top and bottom with a longitudinal tongue; each header having



a portion provided with a top and bottom groove engaging the bottom and top tongues respectively of adjacent stretchers.

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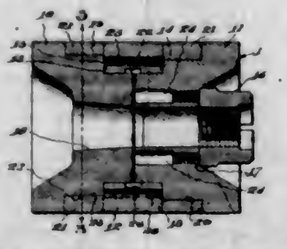
1,695,998. RAIL ANCHOR. FRANK G. FREESE, Aldan, and RUSSEL C. PAXSON, Llanerch, Pa. Filed Apr. 27, 1928. Serial No. 273,375. 6 Claims. (Cl. 238—324.)



5. A rail anchor comprising a resilient member having inwardly turned terminal lips joined by an intermediate section made up of vertical-walled sections adjacent said lips, curved sections, and a section substantially straight underlying the base of the rail; said curved sections being adapted to flex under the pressure exerted by a key driven transversely of the rail between the bottom thereof and the intermediate portion of the anchor and said intermediate portion being slightly grooved to guide the key.

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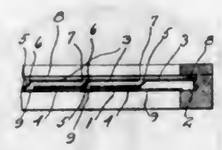
1,695,999. PUMP PISTON. WALTER C. GAGE, Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed June 22, 1926. Serial No. 117,672. 2 Claims. (Cl. 74—109.)



1. A pump piston of composite construction comprising a pair of elements provided with annular recesses in their perimeters on their adjacent ends to form a groove, a centering ring in said groove overlapping the joint between the elements, each of said elements provided with an eccentric, annular groove adjacent the annular recesses therein, said grooves disposed whereby the shallowest portion of one groove will be opposed to the deepest portion of the other groove, and snap rings in said eccentric grooves.



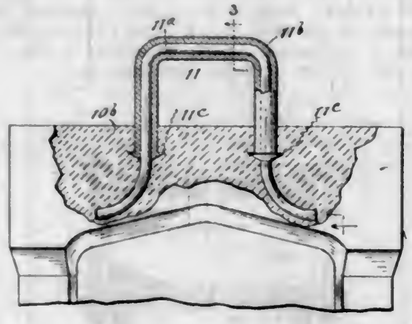
1,696,000. VENTILATOR. JOSEPH P. GLASER, Detroit, Mich., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 11, 1926. Serial No. 154,061. 2 Claims. (Cl. 98—101.)



1. A ventilator comprising a frame member practically L shaped in cross section and substantially rectangular in form, a second frame member rabbeted in one face at the inner edge to receive the first frame, means for holding the L shaped frame in the rabbet, the assembled frames providing a channel in the inner periphery, a series of metal plates each offset in substantially its central portion providing parallel spaced portions of substantially equal length, the series of plates being supported in the frame channel and so relatively arranged as to provide spaces between the plates, the edge of one plate being spaced relative to the aligned portion of an adjacent plate providing openings to the said spaces on opposite sides of the assembled plates, a third plate supported in the said frame channel on one side of the assembled plates and having apertures registerable with the said openings to said spaces, said third plate being slidable in the channel in face contact with the plate surfaces to bring the apertures into or out of registration with the said openings whereby the same may be opened or closed.

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1,696,001. STORAGE-BATTERY CASE. PAUL O. GUNKEL, Welland, Ontario, Canada, assignor to Joseph Stokes Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Aug. 10, 1925. Serial No. 49,220. 7 Claims. (Cl. 206—2.)

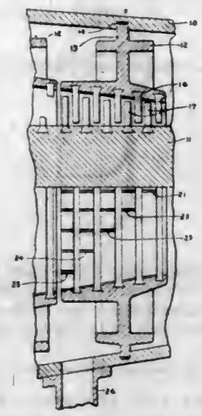


1. A storage battery case having handles with portions wholly embedded in the end walls, the handles being formed of metal with a covering of acid resistant material similar to the case composition, the handle coverings extending down into the case composition united directly therewith.

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1,696,002. TURBINE. HENRY J. HANZLIK, Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 1, 1925. Serial No. 47,578. 8 Claims. (Cl. 253—76.)

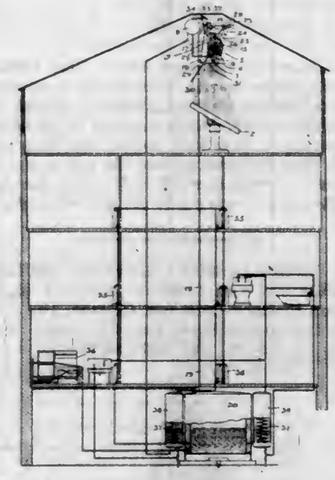
1. In a turbine, the combination with a casing, of a blade-carrying element having an inner axially-extending blade-carrying portion and an outer radially extending portion detachably connected to the casing, a plurality of rows of blades carried by the blade-carrying portion, and drain-



age means for each annular space between rows of blades and for the space at the leaving side of the last row of blades.

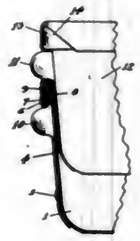
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1,696,003. SOLAR-HEAT-ACCUMULATING SYSTEM. WALTER J. HARVEY, Toronto, Ontario, Canada. Filed Oct. 21, 1924. Serial No. 744,997. 2 Claims. (Cl. 126—271.)



1. In a solar heat accumulating system, a diurnal reflector adapted to direct the sun's rays to a fixed point, a receiver adapted to contain a fluid heat absorbing medium, a circulating conduit connected with said receiver, a helically shaped tubular coil introduced in said conduit and arranged at said fixed point, a chamber connected with the upper end of said coil, tubes leading upwardly from said chamber, an annular chamber connected with the upper ends of said tubes, a pipe leading from the upper chamber and forming part of the circulating conduit, a pump arranged in said upper pipe, and means for operating said pump to effect the circulation of said heat absorbing fluid.

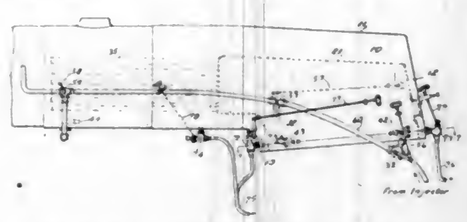
1,696,004. BAKING PAN. JOSEPH GEORGE JACKSON, Chicago, Ill., assignor to Edward Katzinger Company, Chicago, Ill., a Corporation of Illinois. Filed June 4, 1927. Serial No. 196,612. 2 Claims. (Cl. 53—6.)



1. In a set of baking pans a side plate located adjacent to the outer wall of the outer pans of said set, said side plate carrying a substantially flat horizontally extending supporting projection, reaching beyond the upper edge of said pan.

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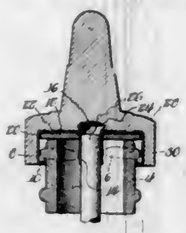
1,696,005. MEANS FOR REMOVING SLUDGE FROM BOILERS. CHARLES A. KOTHÉ, Meadville, Pa. Filed Apr. 28, 1924. Serial No. 709,691. 8 Claims. (Cl. 122—382.)



1. The method of removing sludge from boilers under pressure comprising heating a stream of water by passing it through a conduit disposed within the boiler, injecting the stream into a surrounding envelope of hot boiler water before releasing it from said conduit and then projecting the stream with its envelope into the region of the sludge and toward an open blow-off cock while the stream is heated sufficiently to not injure the hot boiler sheets.

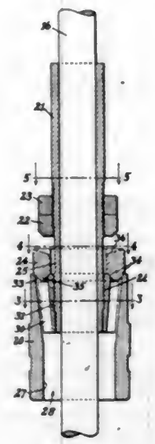
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1,696,006. STOPPER FOR INDIA-INK BOTTLES AND THE LIKE. ADOLPH LANGSNER, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 23, 1928. Serial No. 272,253. 11 Claims. (Cl. 215—58.)



7. A screw cap covering for india ink bottles having a separate metal sleeve passing through a central opening in the top of the cap with the upper portion of said sleeve peened in position, a washer of compressible material fitting around that portion of the cylinder lying within the cap, and a quill mounted on said cylinder with the top of the quill abutting said washer.

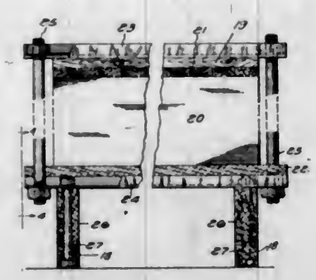
1,696,007. RELIEF VALVE FOR DEEP-WELL PUMPS. CHARLES B. LEWIS and EDGAR D. ROBERTSON, Los Angeles, Calif. Filed Sept. 20, 1926. Serial No. 136,516. 1 Claim. (Cl. 103—202.)



A relief valve for deep well pumps, comprising a fixed tubular member having a seat in its upper end, a central guide extending above said fixed member, said guide being adapted to receive the polish rod of a pump, and a vertically movable ring-flapper directed by said guide, said ring-flapper being adapted to seat on said seat, the upper end of said ring-flapper being provided with radial grooves, and a nut to limit the upper movement of said ring-flapper, said radial grooves equalizing the pressure on all sides of said ring-flapper when the latter is in contact with said nut.

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1,696,008. APPARATUS AND METHOD FOR PACKAGING PAPER. WILLIAM C. LUDWIG, Chillicothe, Ohio, assignor to The Mead Pulp & Paper Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 4, 1924. Serial No. 735,894. 6 Claims. (Cl. 206—60.)



1. Apparatus of the character described for packaging and transporting a stack of sheet paper, comprising means for holding the sheets of paper together under heavy compression during shipment, said means including a substantially rigid metallic band encircling said stack of paper and adapted to bear upon the upper and lower faces of said stack, and skids secured to said metallic band whereby to maintain the lower part of said frame and said stack a sufficient distance above the ground to receive an elevating truck thereunder.



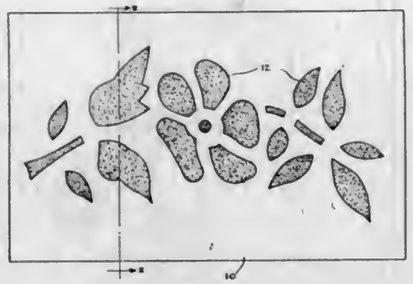
1,696,009. VEHICLE TIRE COVER. THOMAS J. MCCORMICK, Detroit, Mich. Filed July 15, 1927. Serial No. 205,986. 7 Claims. (Cl. 150—54.)



1. In a vehicle tire cover having a free edge adapted to be held contracted by means of an extensible and contractible element, a hem in said free edge, an extensible and contractible friction reducing bearing lining said hem, and an edge contracting element within said lining.

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1,696,010. DEVICE FOR DECORATING WALLS AND SIMILAR SURFACES. GEORGE A. NEWMAN, St. Paul, Minn. Filed Dec. 13, 1926. Serial No. 154,441. 1 Claim. (Cl. 101—401.)



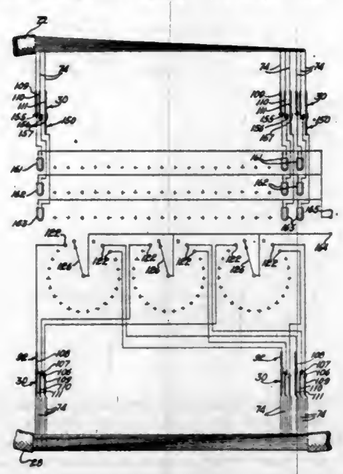
A device for decorating walls comprising a flat base member having a pattern outlined thereon and finely divided pieces of sponge secured by an adhesive to said base member, said pieces of sponge filling the space within the limits of said outlined pattern to produce a pattern in relief.

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1,696,011. ARC-WELDING ELECTRODE. HARRY R. PENNINGTON, Chicago, Ill., and CHARLES H. HOLLUP, Milwaukee, Wis., assignors to C. H. Hollup Corporation, a Corporation of Illinois. Filed Sept. 8, 1924. Serial No. 736,624. 1 Claim. (Cl. 219—8.)

A coating for welding rods comprising a mixture of barium carbonate, and powdered carbon in substantially equal volumes and a diluted solution of sodium silicate.

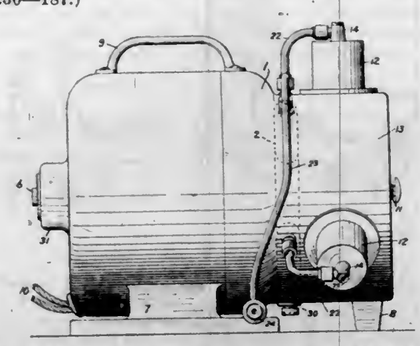
1,696,012. METHOD OF AND APPARATUS FOR INTERCONNECTING AND TESTING ELECTRICAL APPARATUS. WILLIAM HARRY RAY, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 10, 1926. Serial No. 101,052. 7 Claims. (Cl. 179—175.)



5. A method of interconnecting and testing a plurality of electrical parts, consisting in establishing test conditions for indicating the nature of interconnections therebetween, and permanently interconnecting the parts during the maintenance of the test conditions.

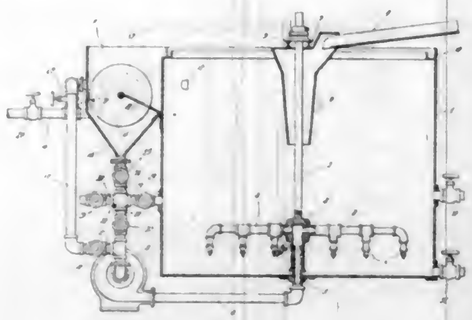
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1,696,013. AIR COMPRESSOR FOR DENTAL AND OTHER PURPOSES. JAMES E. REID, Moorestown, N. J. Filed Nov. 11, 1926. Serial No. 147,702. 4 Claims. (Cl. 230—187.)



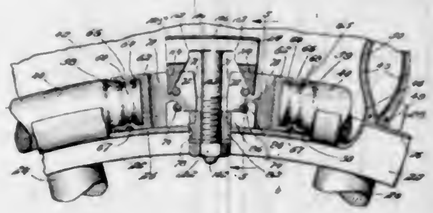
1. In an air compressor the combination of a generally cylindrical closed casing provided internally with a closed annular air chamber dividing it into motor and pump chambers and providing an opening for the passage of a motor shaft, a motor arranged in the motor chamber and having its shaft extending through said opening and into the pump chamber, a plurality of radially disposed immovable pump cylinders opening through the cylindrical wall of the pump chamber, crosshead guides radiating from said opening and arranged in the pump chamber and at the outside of one face of the air chamber, a crank pin, on the motor shaft and in the pump chamber, a disk on the crank pin, pump plungers having rigidly connected rods provided with crossheads working in said guides and riding on the disk, springs pressing the rods into following relation with the eccentric, valved pipe connections from the cylinders to the air chamber, and an air offtake pipe from the air chamber.

1,696,014. APPARATUS FOR THE TREATMENT OF SOLID-BEARING SOLUTIONS. WALTER L. REMICK, Philadelphia, Pa. Filed Sept. 17, 1925. Serial No. 56,917. 3 Claims. (Cl. 210—45.)



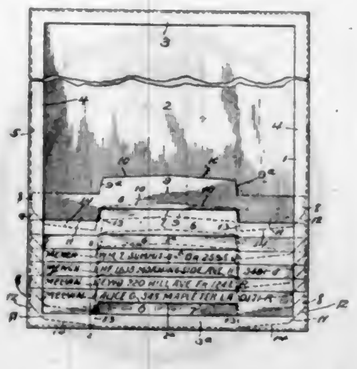
1. In an apparatus for the treatment of solid-bearing solutions, the combination of a tank; a filter so related to said tank as to receive material discharged from said tank and provided with a receptacle for the solids recovered by the filter; means adapted to convey the solids from the receptacle to said tank; and means adapted to return the filtered liquid discharged by the operation of said filter to said tank.

1,696,015. VEHICLE WHEEL RIM. WIRT RUSSELL ROBINSON, Providence, R. I. Filed June 10, 1924. Serial No. 719,156. 6 Claims. (Cl. 152—21.)



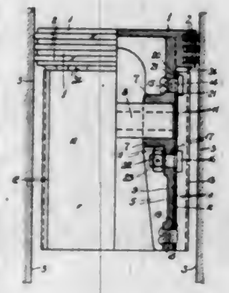
5. In a vehicle wheel, having a rim having a seating portion for a detachable flange having a hole therein, a detachable side flange for said rim having its ends longitudinally slotted and having outer and inner sets of rods extending transversely of said slots, a T-shaped locking bolt having lugs projecting downwardly from each end of the head thereof bevelled towards said head from the ends thereof adapted to contact said outer transverse rods to draw the ends of said flange together, grooves extending transversely of the lower inside portion of the head thereof adapted to receive said outer transverse rods to detachably lock the ends of said flange therein and a shank portion adapted to project through said hole in said flange seating portion of said rim to secure said detachable flange to said rim and a retaining member having a shank adapted to register in the hole in said groove around the shank of the T-bolt and an outer portion longitudinally slotted and having its outer side transversely grooved to receive the inner transverse rods of said flange to firmly retain the ends of the flange together before depression of the T-bolt and means to lock said bolt to said rim.

1,696,016. INDEX. ROBERT C. RUSSELL, Pittsburgh, Pa. Filed Mar. 5, 1926. Serial No. 92,489. 5 Claims. (Cl. 40—63.)



1. In an index, a series of index elements, each comprising a body portion, end members, a tongue above said body portion, and tongues depending from said end members to clear the first-mentioned tongue on a lower index element and pass behind the end members of said lower element to rest upon the same, said last mentioned tongues having beveled inner ends.

1,696,017. PISTON FOR USE IN THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES. PHILIP KEITH SAUNDERS, Johannesburg, Transvaal, South Africa. Filed Oct. 7, 1926, Serial No. 140,019, and in the Union of South Africa Aug. 11, 1926. 4 Claims. (Cl. 74—108.)

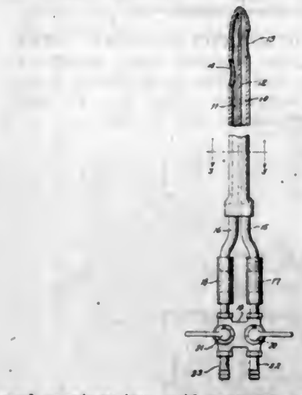


1. A piston for internal combustion engines, comprising a head portion made of a light metal or alloy and provided with projecting parts, piston rings arranged around said head, and a skirt, made of a hard and strong metal or alloy, arranged around and detachably connected to said head portion, the skirt being fashioned with inwardly directed longitudinal projections forming recesses at the outside and the projecting parts with grooves adapted to be engaged by said projections, the means for detachably connecting the skirt to the head being positioned in the recesses, as set forth.

1,696,018. COLONIC THERAPY APPARATUS. OSCAR BOTO SCHELLBERG, New York, N. Y. Filed July 10, 1926. Serial No. 121,585. 8 Claims. (Cl. 128—240.)

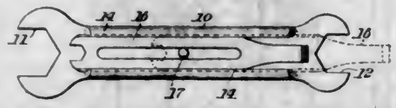
1. In an apparatus as characterized, a flexible tube elongated for extension through the colonic region of the intestinal tract, said tube having a plurality of passages extending lengthwise and open coincidently at the rear end thereof, said tube having a closed forward extremity,





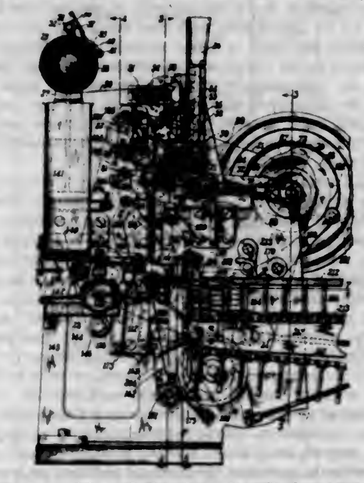
and openings into said passages, said openings being arranged in spaced relation to said closed extremity, and in staggered relation to one another.

1,696,019. TOOL. FREDRICK SIEVERN, McKeesport, Pa. Filed Jan. 7, 1927. Serial No. 159,546. 3 Claims. (Cl. 81—119.)



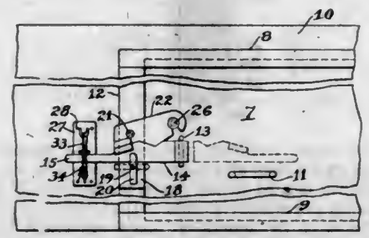
1. A tool comprising a bar having a nut-engaging recess in each end and serving as a grip member, the bar having a longitudinally-extending exposed channel in one side, and a second bar slidably supported in said channel and having a nut-engaging recess on each end, the second bar being of shorter length than the distance between the first-named recesses but movable to such positions that each of its ends will project beyond the adjacent ends of the first-named bar, and each of said nut-engaging recesses being complete in itself for the turning of a nut.

1,696,020. WRAPPING AND LABELING MACHINE. JOHN VAN BUREN, Brooklyn, N. Y. Filed Jan. 11, 1923. Serial No. 611,913. 18 Claims. (Cl. 93—2.)



1. In a machine of the class described, means for feeding a wrapper, means for feeding an object to be wrapped in a direction at an angle to the wrapper and across the path thereof and oscillatory means disposed in the path of movement of the object for receiving the object and wrapper prior to the folding of the wrapper and for partially folding the wrapper around the object.

1,696,021. FASTENER FOR SLIDING DOORS. DE QUINCEY VINING, Manchester, Ga. Filed Nov. 8, 1926. Serial No. 147,055. 7 Claims. (Cl. 92—282.)

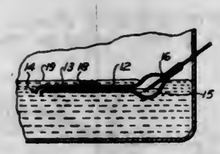


1. The combination, with a sliding door and a surface relative to which it is slidable of a hasp carried by said door, means for automatically securing said hasp to said surface by advancement of said door toward said securing means, and a seal adapted to be placed in position before the hasp is secured and automatically rendered effective by such advancement of the door to prevent release of the hasp until the seal is broken.

1,696,022. FERMENTATION PROCESS. ELLIOTT ROSS WEYER, Washington, Pa. Filed Mar. 4, 1927. Serial No. 172,934. 5 Claims. (Cl. 260—135.)

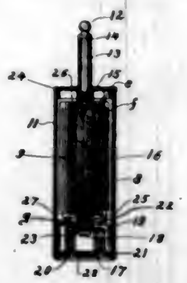
1. An improvement in the fermentation of carbohydrate mashes with selected cultures for the production of butyl alcohol and acetone, which comprises sterilizing the mash and treating the sterilized mash with an antiseptic non-toxic with respect to cultures active in this fermentation but toxic with respect to contaminating organisms.

1,696,023. MERCURY-ARC DEVICE. VLADIMIR K. ZWORYKIN, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 21, 1925. Serial No. 70,558. 3 Claims. (Cl. 176—45.)



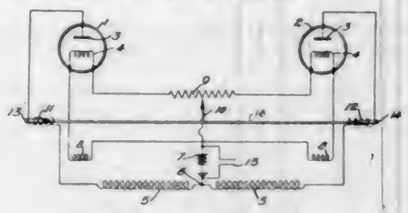
1. The combination with a mercury-arc discharge device comprising a vessel and a mercury electrode in said vessel, of a starting means for initiating electron emission upon the surface of the mercury, comprising a member of insulating material having a tubular perforation submerged in the mercury, said perforation being in communication with the body of mercury and so disposed that it is filled with a thread of mercury, an insulated lead-in connection for said member to provide a current path through said thread, said member having a portion opening above the surface of the mercury and communicating with said thread, whereby upon sending current through said thread, mercury is expelled through said opening and an arc is started on the mercury surface.

1,696,024. RECEPTION APPARATUS FOR TELEPHONE SYSTEMS. STRATFORD B. ALLEN, Cambridge, Mass. Filed Feb. 21, 1924. Serial No. 694,271. 6 Claims. (Cl. 250—16.)



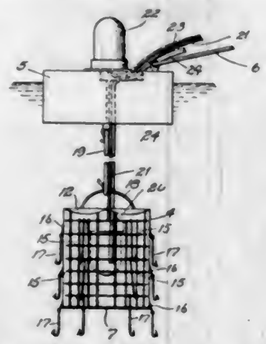
1. A telephone appliance comprising the combination, with a telephone plug, of a container mounted on the plug; an impedance located in the container and connected between the tip and sleeve elements of the plug; output terminals mounted on the container; and a condenser, through which one of the output terminals is connected in series to one end of the impedance, the other output terminal being connected to the other end of the impedance; the said output terminals being adapted for the connection to them of an external portion of the output circuit.

1,695,025. BALANCING MEANS FOR HOT-CATHODE RECTIFIERS. ALFRED L. ATHERTON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 20, 1920. Serial No. 425,496. 15 Claims. (Cl. 175—363.)



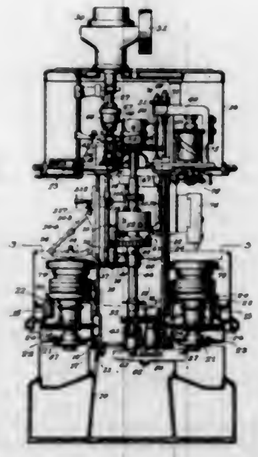
1. The combination with an A. C. source, a plurality of hot-cathode half-wave rectifiers supplying a common load connected between said rectifiers and the neutral of said source, of automatic means for varying the cathode heating currents upon the occurrence of differences in the bulb-potential-drops.

1,696,026. FISHING TACKLE. PETER J. BODE, St. Louis, Mo. Filed Oct. 5, 1927. Serial No. 224,066. 4 Claims. (Cl. 43—4.)



1. A bait element comprising a base plate and a top plate and garbage receptacles, the garbage receptacles having one end secured to the base plate and the other to the top plate, fish hooks secured to wires encircling the receptacles.

1,696,027. AUTOMATIC MULTIPLE-SPINDLE LATHE. EDWARD P. BULLARD, Jr., Stratford, Conn., assignor to The Bullard Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 13, 1924. Serial No. 755,626. 32 Claims. (Cl. 29—38.)

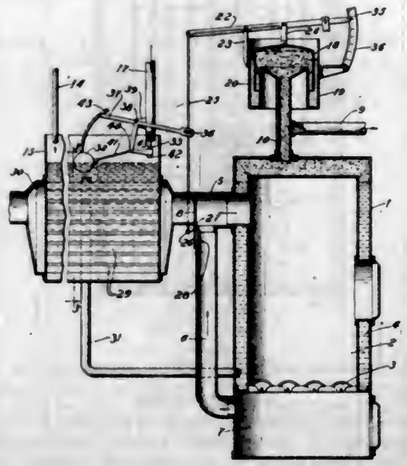


1. An automatic machine tool comprising a base, a rotary carrier mounted thereon, a series of rotary work carrying spindles supported in said carrier and each having a longitudinal opening extending therethrough and adapted to receive the work, indexing means for intermittently rotating said carrier to bring the spindles from one station to the next, tool slides including tools disposed at work stations adapted to move downwardly to engage the rotating work at its upper end, and tool means at one of the work stations adapted to move upwardly to engage the rotating work at its lower end simultaneously with its engagement by one of said downwardly moving tools and whereby the simultaneous operation of the downwardly and upwardly moving tools in relation to a single rotating work piece axially aligns and renders co-concentric the respective work thereon by said tools.

32. In an automatic machine tool of the character described, a work table, a work carrying spindle carried thereby adapted to receive the work, a chuck carried by said spindle adapted to secure and center the work, work seating means comprising a movably mounted member having a predetermined work seating position, adapted to be operated to press the work to a predetermined position with respect to said chuck, and to be moved from said seating position to inoperative position, cooperative mechanism associated with said work table, and locking means for said mechanism including a locking slide having a rack portion, a toothed segment meshing with said rack portion, and a lever connected to said seating member and adapted as said member is operated to rotate said segment to reciprocate said slide, and whereby in the seating position of said member said slide is operated to locking position to prevent operation of said mechanism and in the inoperative position is reciprocated to release said mechanism.

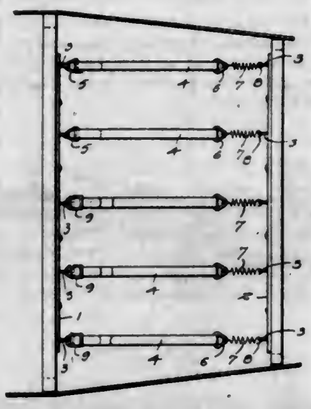


1,696,028. STEAM-HEATING SYSTEM. LOUIS W. CARROLL, Riverside, Ill., assignor of one-half to Glenn Muffly, Chicago, Ill. Original application filed Jan. 3, 1925, Serial No. 406. Divided and this application filed Dec. 23, 1926. Serial No. 156,080. 7 Claims. (Cl. 122—449.)



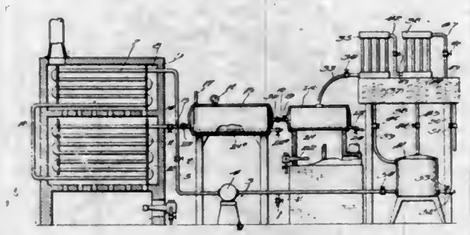
1. In combination, a furnace having a closed steam and water space, an open feed water tank connected to said space, means for supplying water to the tank and means operated by the pressure in the space to control said means for varying the water level in the feed water tank as the vapor pressure in the said space varies so as to maintain a constant water level in said space at different vapor pressures.

1,696,029. ARTICLE CARRIER. HARVEY V. CHANDLER, Sulphur Springs, Tex. Filed July 23, 1927. Serial No. 208,022. 3 Claims. (Cl. 224—29.)



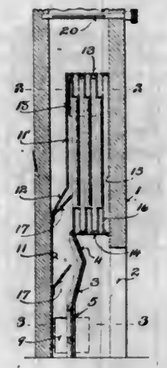
3. In an article carrier, parallel members having pairs of opposed hooks, a plurality of flexible loops each secured to a hook of one of the members and a spring slidably engaging each loop at one end and having its opposite end engaged with the hook of the pair which is secured to the other of the members.

1,696,030. PROCESS FOR TREATING PETROLEUM OILS. WALTER M. CROSS, Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del., a Corporation of Delaware. Filed Oct. 14, 1922. Serial No. 594,493. 5 Claims. (Cl. 196—65.)



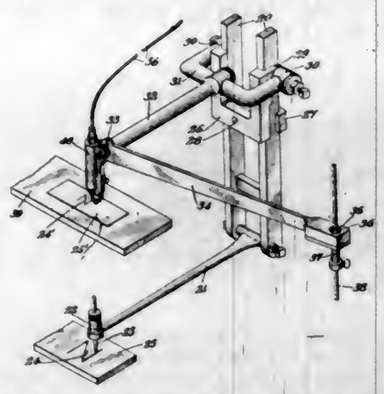
1. A process for treating petroleum oil consisting in raising the oil to a conversion temperature in a heating stage, passing the oil to a reacting stage and maintaining a pressure from 400 to 750 pounds per square inch upon the heating and reacting stages, introducing a combustion supporting gas to the reacting stage to raise the temperature therein in excess of the temperature in the heating stage, passing the converted product from the reacting stage to a distillation stage maintained under reduced pressure, refluxing the evolved vapors in separate stages of dephlegmation and collecting the separated products.

1,696,031. HEATING APPARATUS. MICHAEL N. FREEMAN, Racine, Wis. Filed Dec. 16, 1926. Serial No. 155,188. 1 Claim. (Cl. 126—121.)



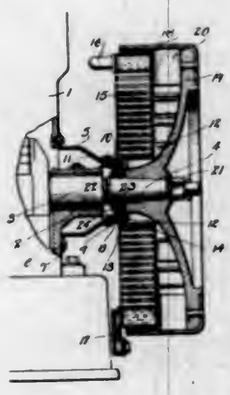
In a heating apparatus, the combination of a chimney, a fireplace adjacent the lower end of the chimney, said fireplace being spaced from and surrounded on three sides by the chimney allowing a free circulation of air around the three sides of the fireplace, a transverse plate adjoining the upper end of the fireplace with the front wall of the chimney, a plurality of tubes opening through said plate, an upper plate through which said tubes open, a casing joining said upper plate with said transverse plate and surrounding said tubes, said casing being spaced from the chimney walls on three sides and joining the rear wall of the chimney to form an air heating chamber, openings in the sides of said casing adjacent its upper end through which heated air may pass, said chimney having openings in its side walls adjacent its lower end through which the cool air may pass behind the walls of said fireplace, and a baffle plate positioned within and secured to the rear wall of the chimney to direct the cool air into contact with the casing of the fireplace.

1,696,032. ENGRAVING CUTTER HEAD AND DEPTH GAUGE. FRANK B. GLOVER, Brooklyn, N. Y. Filed Sept. 26, 1922. Serial No. 590,572. 7 Claims. (Cl. 90—13.2.)



1. In an engraving machine, a work support, a cutter head, a cutter carried by said head, means to guide the cutter over the work on the work support, a depth gauge carried by said cutter holder and adapted to bear on the work, means to adjust the head and depth gauge vertically independently, and means to lock the tool holder or gauge in adjusted positions.

1,696,033. RADIATOR AND FLYWHEEL. CLAIR R. GRANT, Clinton, Iowa, assignor to O. D. Collis, Clinton, Iowa. Filed Apr. 11, 1924. Serial No. 705,757. 2 Claims. (Cl. 123—170.)

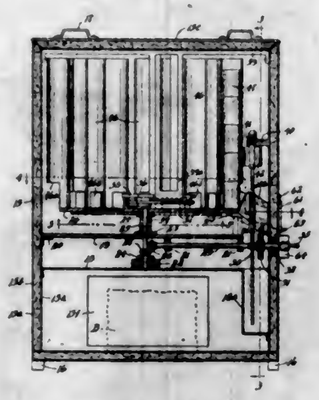


1. A mounting for the radiator of an engine having a crank shaft and a fan having a radiator-enclosing rim and an inwardly extending hub, comprising a cone-like cap supported by the engine block and provided with an external flange on its outer end, and an inwardly extending flange on the radiator for engagement with said cap flange for supporting the radiator and spacing the radiator from the shaft whereby the fan hub may be mounted on the shaft interiorly of the radiator.

1,696,034. PROCESS FOR PRODUCING OILED PIGMENTS. HAROLD GROSSMAN, Caldwell, N. J., assignor of one-fourth to William S. Pritchard, New York, N. Y. Filed Feb. 25, 1927. Serial No. 171,073. 14 Claims. (Cl. 134—39.)

1. The method of producing oiled pigments which comprises forming an emulsion of oil with a protective colloid, adding the emulsion to the pigment, and coagulating the colloid to break the emulsion and release the oil.

1,696,035. DISPENSING MACHINE FOR BOTTLED MILK. WALTER J. HAACK, Racine, Minn. Filed Aug. 28, 1925. Serial No. 53,172. 10 Claims. (Cl. 312—66.)

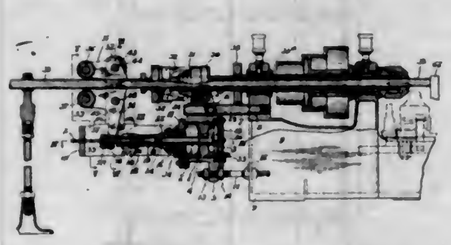


1. A dispensing machine of the character described, having in combination a casing, a rotatable table thereon, a plurality of magazines carried by said table, each of said magazines being adapted to contain a plurality of articles to be dispensed, a delivery chute, a mechanism for locking said table in fixed position, a rotatable disk normally adapted to close said delivery chute, but having an opening therein for the discharge of the articles to be dispensed when said disk and said table are rotated to a certain predetermined position, and means for rotating said table and disk and pushing an article from said mechanism into said chute.

1,696,036. PROCESS FOR RECONDITIONING IRON AND STEEL DRUMS. ROBERT C. HEINZMAN, Cincinnati, Ohio. Filed Oct. 15, 1927. Serial No. 226,405. 3 Claims. (Cl. 148—6.)

1. That process of reconditioning interiorly rusted drums which consists in applying a solution of oxalic acid evenly over the interior surface of the drum, and then applying aluminum acetate to the treated surface.

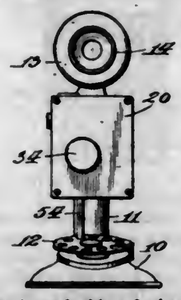
1,696,037. AUTOMATIC CHUCK AND ROLLER FEED. EARL J. HORNBERGER, Cleveland, Ohio, assignor to John G. Oliver, doing business as Bardons and Oliver, Cleveland, Ohio. Filed Dec. 6, 1926. Serial No. 152,880. 15 Claims. (Cl. 29—63.)



1. Stock-feeding and chucking apparatus comprising a chuck adapted to grip the stock, chuck-operating means, a driven stock-feeding roll adapted to engage the stock to feed it through the chuck, a fluid pressure cylinder, a source of supply of fluid under pressure, means controlling the flow of fluid into and out of said cylinder, a piston in said cylinder, connections between said piston, said stock-feeding roll and said chuck-operating means, comprising a piston rod, adjustable tappets on said rod, a lever pivoted to a fixed support, having one arm adapted to be engaged and moved by said tappets and the other arm adapted to move said stock-feeding roll into and out of engagement with the stock, a second lever pivoted to a fixed support having one arm connected to said piston rod and another arm connected to said chuck-operating means, and a spring interposed between one of said tappets and the arm of said roll operating lever.

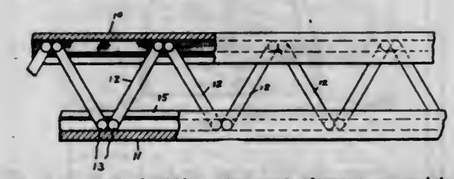


1,696,038. DIAL TELEPHONE LOCKING DEVICE. WILLIAM B. JAMES, Los Angeles, Calif., assignor to Alfred H. Aarons, Los Angeles, Calif. Filed May 31, 1928. Serial No. 281,999. 11 Claims. (Cl. 179—189.)



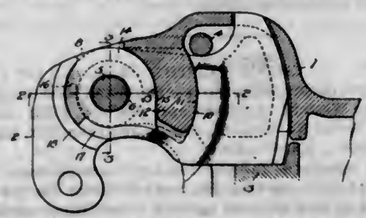
1. In a dial telephone locking device, a housing adapted to be positioned on a telephone above the dial thereof, a dial locking bolt arranged to move vertically within said housing and to swing rearwardly simultaneous with its upward movement, and coin controlled means within said housing and operable from the exterior thereof for controlling the movement of said dial locking bolt.

1,696,039. JOIST. THOMAS H. KANE, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a Corporation of Michigan. Filed June 29, 1925. Serial No. 40,171. 2 Claims. (Cl. 189—87.)



1. A metallic building structure element comprising a channel compression member, a channel tension member and a web composed of a plurality of similar bars each having cross heads formed on their ends, said cross heads being secured in said channels laterally of the channel, said bars being arranged diagonally and in zig-zag fashion and so that one end of each bar abuts an end of an adjacent bar.

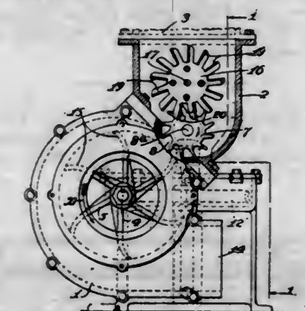
1,696,040. CAR COUPLER. WILLIAM KELSO, Pittsburgh, Pa., assignor to The McConway & Torley Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 26, 1925. Serial No. 52,645. 6 Claims. Cl. 213—152.)



1. A car coupler involving a coupler head, a knuckle, a lock for said knuckle, and a pivot pin for movably connecting said head and knuckle, said head and knuckle having openings for receiving said pivot pin, at least one of said openings being circular, said knuckle being adapted to move in the direction of length of the coupler as well as to rotate with respect to said head, said knuckle being provided with a circularly curved pulling shoulder concentric with said circular opening when the knuckle is in closed position and also being provided with a buffing shoulder, said head being provided with a shoulder curved to conform to said pulling shoulder and adapted to cooperate with the latter when the knuckle is subjected to draft forces, and said head also being provided with a shoulder conforming to said buffing shoulder and adapted to cooperate therewith when the knuckle is subjected to buffing forces, said pulling and buffing shoulders of the knuckle being spaced from each other and being intersected by a radial line extending from the center of said circular opening toward the knuckle engaging face of said lock when the parts are in coupled relation.

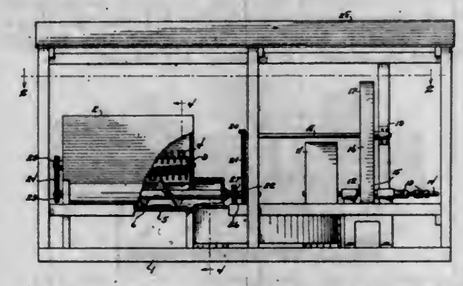


1,696,041. CARBURETOR FOR POWDERED COAL. OTTO A. KREUTZBERG, Lake Bluff, Ill. Filed Feb. 20, 1924. Serial No. 694,005. 3 Claims. (Cl. 110—104.)



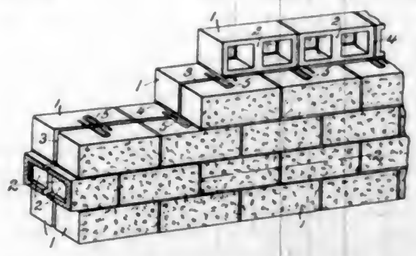
1. In an apparatus for mixing powdered fuel and air, an air blast wheel and a casing therefor having a tangential discharge mouth, a feed hopper for the fuel mounted adjacent the blast wheel casing and formed with an outlet positioned to direct the fuel toward the periphery of the blast wheel, and means for positively controlling the feed of fuel from the hopper in fixed relation to the speed of the blast wheel.

1,696,042. COTTONSEED-LOADING DEVICE. GEORGE H. KRISTEK, Ellinger, Tex. Filed Nov. 5, 1927. Serial No. 231,318. 1 Claim. (Cl. 302—50.)



A loading device comprising a hopper, a conveyor casing below the same and in communication therewith, an agitator in the hopper, a conveyor in the casing, a discharge spout below the discharge end of the casing, a fan, a trunk connecting the fan with the discharge spout, means for intermittently permitting the material to pass from the conveyor into the discharge spout, such means comprising a downwardly opening gate, a cam member for opening and closing the same and means for operating the cam member from the conveyor.

1,696,043. WALL. FRANK KROPF, Wamego, Kans. Filed Mar. 28, 1927. Serial No. 178,925. 1 Claim. (Cl. 72—101.)



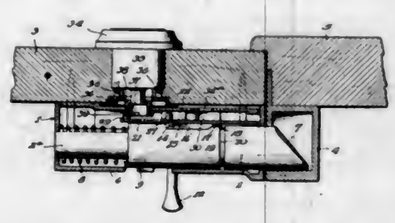
In a wall, two parallel vertical spaced tiers of hollow blocks, an air space between the tiers, each tier comprising horizontal rows of blocks cemented together one above the other, each block being open at the side next adjacent to the air space and closed at all of its other sides, the upper side of the bottom of each block inclining downwardly to said air space, each block being spaced throughout from the blocks in the opposite tier, and tying means across said air space connecting said tiers.

1,696,044. WINDSHIELD WIPER. DAVID KUSKIN, New York, N. Y., assignor to Full View Windshield Wiper, Inc., a Corporation. Filed July 1, 1927. Serial No. 202,873. 5 Claims. (Cl. 121—164.)



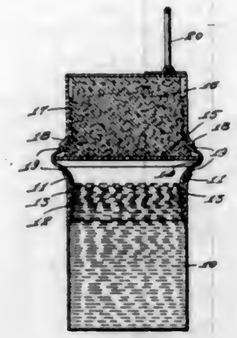
2. An operating mechanism for reciprocating windshield wipers including a pair of parallel cylinders each open at one end and closed at the other, the open end of each cylinder being arranged adjacent the closed end of the other, valve means for alternately admitting and exhausting air through the closed ends of the cylinders, a piston in each cylinder and a flexible device connecting the pistons, and pulleys at the open ends of the cylinders over which the flexible device is led.

1,696,045. LOCKING DEVICE. JOSEPH S. LACH, Bridgeport, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Aug. 19, 1925. Serial No. 51,215. 12 Claims. (Cl. 70—46.)



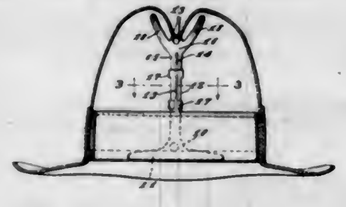
1. The combination of a manually operable bolt, means for deadlocking the same, outside key-controlled means, a slide mounted on the bolt and cooperating therewith to move the bolt to and from deadlocking position, longitudinally spaced pins on the slide, and a roll-back cam operated by said key-controlled means to successively engage the pins for unlocking and retracting the bolt.

1,696,046. DISTRIBUTOR ATTACHMENT FOR OIL CANS. FRANK W. LAWYER, Placerville, Calif. Filed June 10, 1927. Serial No. 197,919. 1 Claim. (Cl. 91—39.)



A device of the character described comprising a receptacle adapted to contain a liquid, a hollow tubular member threaded in and projecting from the open end of the receptacle, a perforated disk arranged within the tubular member, a wiping element comprising a coil of felt partly arranged within the tubular member and reposing upon said disk, and a cap normally covering said wiping element and removably associated with said tubular member.

1,696,047. HAT BRACE. HENRY MARTIN, Eddyville, Ky. Filed Aug. 24, 1927. Serial No. 215,209. 1 Claim. (Cl. 2—185.)

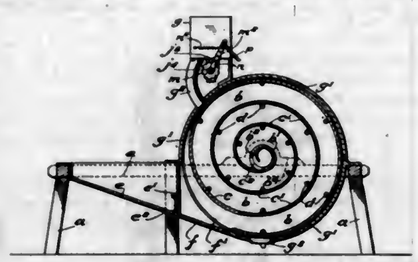


A brace device adapted for use within hats to retain the shapes of the crowns thereof comprising a brace member of substantially inverted T-shaped configuration adapted for reception within a pocket portion behind the sweat band, a crown engaging member having a depending portion disposed in juxtaposition to an upstanding portion of the brace member, the ends of said depending portion and upstanding portion of the brace member being adapted to be lapped one upon the other, arms outwardly converging from and carried by the crown engaging member being adapted to engage and conform to the configuration of hat crowns to retain the crease therein, and said depending portion and upstanding portion being depressed for interfitting engagement to prevent distortion of the device from a desired adjusted position.

1,696,048. MACHINE FOR THE PICKLING OF GRAIN. FRANCIS HENRY MCCORMICK and JAMES PATRICK DWYER, Perth, Western Australia, Australia. Filed Apr. 21, 1926, Serial No. 103,587, and in Australia Nov. 23, 1925. 8 Claims. (Cl. 83—28.)

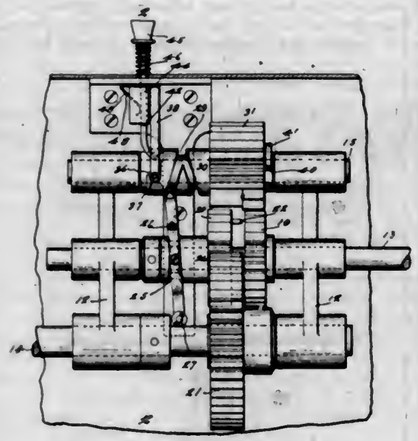
1. An apparatus for pickling grain, comprising a casing having an inlet opening for grain adjacent its lower portion and having an inlet opening for pickling agent at its upper portion, a hollow hub extending lengthwise of said casing and rotatable in the latter, said hub having an opening in its periphery and having one end open and its other end closed, a chamber surrounding said hub and rotatable therewith, said chamber having an opening in its





wall adapted, during the rotation of said chamber to successively register with the grain and pickling agent inlets of said casing.

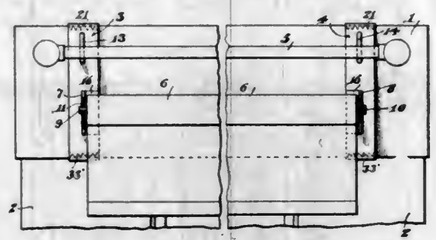
1,696,049. GEAR SHIFT. JAMES S. MILLER, Bedford, Ind. Filed Nov. 21, 1927. Serial No. 234,832. 4 Claims. (Cl. 74—7.)



1. In combination, a drive shaft, a driven shaft, an idler shaft, a normally inactive gear upon the idler shaft, means to lock the gear in inactive position, means to release the gear, a gear fast upon the drive shaft and normally disengaged from the gear upon the idler shaft, a gear fast upon the driven shaft, a second gear freely mounted upon the drive shaft and engaging a gear of the driven shaft and normally disengaged from the gear of the idler shaft, means to impart a positive initial rotary movement to the idler shaft gear to engage the latter with the gear fast upon the drive shaft to drive the idler gear, means operated by the idler gear to move the freely mounted gear of the drive shaft when the gear locking means is released and cause the idler gear to engage and rotate with the gear fast upon said drive shaft to operate the driven shaft, and means to lock the parts in position at the end of a complete revolution of the idler gear.

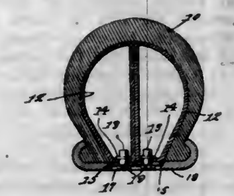
1,696,050. SHADE BRACKET. ADELARD MORIN, Nashua, N. H. Filed Nov. 1, 1927. Serial No. 230,282. 11 Claims. (Cl. 156—24.)

1. In a supporting bracket for the purpose set forth comprising a lengthwise adjustable body portion formed of inner and outer slidably connected telescopic sections of channel shaped cross section, the outer section closed at its top and the inner section closed at its bottom, a controlling spring common to said sections, arranged therein and having one end anchored to said top and its other end anchored to said bottom, said outer section having its top formed with a toothed flange to provide a clamping member, said inner section having its bottom



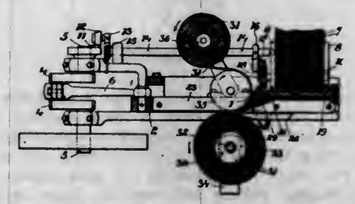
formed with a toothed flange providing a clamping member, said flanges extending inwardly at right angles with respect to said top and bottom, and a forwardly extending supporting arm carried by said outer section.

1,696,051. TIRE. LADISLAUS ORSZAG and PHILIP CURCURTO, Bronx, N. Y. Filed May 5, 1926. Serial No. 106,887. 1 Claim. (Cl. 152—22.)



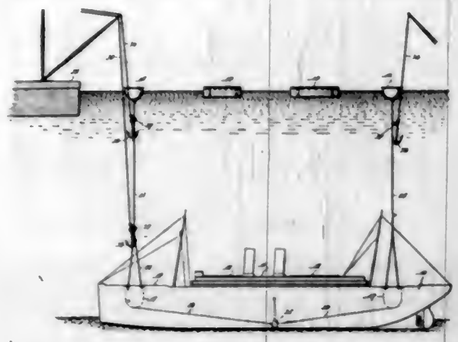
A valve stem housing construction comprising a tire rim having a series of beveled circular openings, the larger diameter of the openings being on the outside circumference of the rim, pairs of semi-circular beveled plates fitting each of the said openings, a valve stem passing through and secured to each one of each pair of semi-circular plates whereby the air pressure forces the valve stems outward and the beveled plates engage the sides of the openings, the said plates being arranged in each pair so that one may be removed or both may be removed at the same time, thereby allowing one section of the tube to be removed without disturbing the other section.

1,696,052. MACHINE FOR MANUFACTURING AND PACKING MATCHES. ALEXANDER OVTSCHINNIKOFF, Arnstadt, Germany. Filed Feb. 18, 1927, Serial No. 169,311, and in Germany Feb. 18, 1926. 5 Claims. (Cl. 144—57.)



1. In a machine for manufacturing match sticks, a reciprocating cutter, and a device for receiving a pack of sheets of wood and alternately displacing the edges of said sheets prior to the presentation thereof to the cutter, and means for operating the cutter to sever a strip of sticks at a time from said sheets, one stick from each sheet, said displacing means including two rotary grooved cylinders and between which the pack of sheets is received, the grooves of the two cylinders being alternately opposed to receive and thus alternately displace the edges of the sheets of wood.

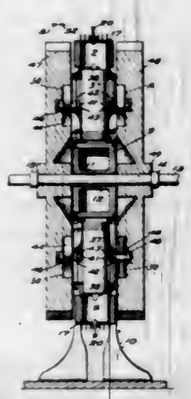
1,696,053. SHIP. JEROME PARINI, New York, N. Y. Filed June 3, 1927. Serial No. 196,312. 5 Claims. (Cl. 114—51.)



1. A ship having open-topped receptacles sunk in its deck, marking buoys received in said receptacles and normally lying flush with the deck, extended grooves in said deck for receiving chains, anchored at their ends to the ship, the intermediate portions of which are normally housed in the bottom of the compartment, and flexible devices connecting the buoys and the chains, said flexible devices adapted to serve as guiding means for guiding a grappling hook into engagement with the chains when salvaging the ship.

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1,696,054. INTERNAL-COMBUSTION ENGINE. HARRY A. PALMER, Dorchester, Mass., assignor to Palmer Inventions, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Feb. 11, 1927. Serial No. 167,503. 5 Claims. (Cl. 173—55.)

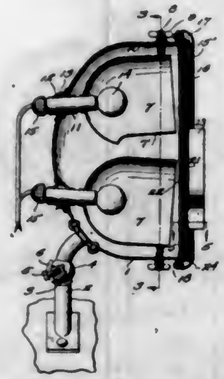


1. In an internal combustion engine, a stationary cylinder, a piston operating therein, a rotor opposing the cylinder, means bodily carried by the piston, extending through and projecting laterally from the cylinder and traveling against the rotor for operating it, said means including anti-friction rollers adjacent its outer ends, and guiding means integral with said cylinder and including bearing surfaces for said rollers.

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1,696,055. GLARELESS HEADLIGHT. BENJAMIN PORTER, Fullerton, N. Dak. Filed Jan. 31, 1927. Serial No. 164,907. 2 Claims. (Cl. 240—41.)

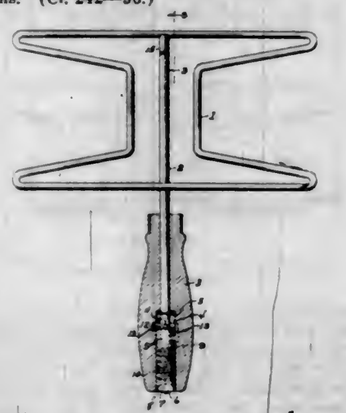
1. A lamp of the class described comprising a casing, transparent members covering the front of said casing, said members being arranged in pairs lying in spaced relation to each other, translucent means between the transparent members and said translucent means having portions cut away, one of said cut away portions being at the top and one at the bottom of the casing and a third at one side, a pair of reflectors within the casing mounted one



above the other and having ball and socket connection with said casing and means adjustably connecting said reflectors to said casing, one of said reflectors being cut away to permit the passage of light to said side opening.

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1,696,056. CLOTHESLINE HOLDER. JOHN W. PROCTOR, Pittsburgh, Pa. Filed Jan. 23, 1928. Serial No. 248,907. 3 Claims. (Cl. 242—96.)



1. A device of the class described comprising a reel having a stem, a handle rotatably mounted on the stem, means for locking the parts together when desired, such means comprising a pin on the stem and a slotted part in the handle having its slot adapted to receive the pin and spring means for normally holding the pin out of the slot.

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1,696,057. PROCESS FOR RESOLVING EMULSIONS OF TAR OR TAR OILS. HERBERT WILLIAM ROBINSON, Birmingham, and DERIC WILLIAM PARKES, West Bromwich, England. Filed Sept. 15, 1927, Serial No. 219,802, and in Great Britain Dec. 24, 1926. 6 Claims. (Cl. 196—4.)

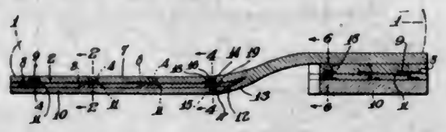
1. The method of resolving an emulsion of tar oils which consists in rendering the emulsion faintly acid, adding thereto a quantity, greater than 10 per cent by weight of the oleaginous phase, of a solid hydrocarbon soluble in the oleaginous phase of the emulsion and having a melting point below 100° C., heating the mixture thus formed above the melting point of said hydrocarbon, rapidly cooling said mixture to precipitate said hydrocarbon in a finely divided state, and settling out the water from the resulting stiff agglomerate of said oleaginous phase and said hydrocarbon.

6. In a process of resolving an emulsion of tar oils containing a quantity of naphthalene in solid form greater than 10 per cent by weight of the oleaginous phase, the steps which consist in bringing the naphthalene in a finely divided state into intimate contact with the emulsion, and settling out the water from the resulting stiff agglomerate of said oleaginous phase and said naphthalene.



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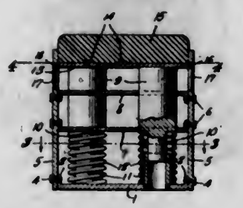
1,696,058. DETACHABLE TREAD MEMBER. BENJAMIN RUBIN, Philadelphia, Pa. Filed Aug. 29, 1927, Serial No. 216,188. 1 Claim. (Cl. 36—36.)



In a detachable tread member, a permanent base having on its under surface a plurality of grooves with their bottoms inclined slightly upwardly to provide deepened portions with adjoining shoulders at certain ends of the grooves, keepers with legs driven into the permanent base having transverse parts overlying across said deepened ends, certain edges of the transverse parts being immediately adjacent said shoulders, a tread member with angular tongues with said ends imbedded and fastened in one face of the tread member with their other ends tapered in thickness toward their extremities corresponding to the inclined bottoms of the grooves, one face of said tread member being grooved at points immediately under the tapered portions of the tongues to receive the transverse parts of the keepers, said second grooves at points beyond the extremities of the tapered parts of the tongues having their bottoms inclined, whereby the transverse parts of the keepers may enter the second grooves and the tapered portions of the tongue may cooperate with the under surface of the transverse part and the inclined bottoms of the first grooves to cause a wedging lock of the tongues with the keepers, said tongues and keepers cooperating to prevent movement of the tread member in one direction, and means for fastening the tread and base members together at one end to prevent movement in the opposite direction.

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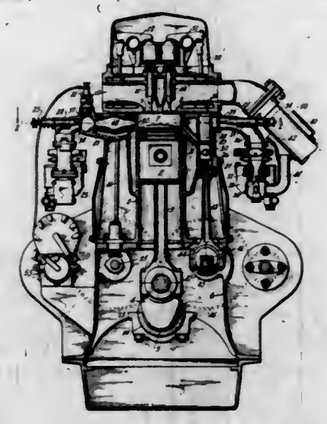
1,696,059. TIRE. JOHN SCHRANER, Tell City, Ind. Filed June 3, 1927. Serial No. 196,330. 2 Claims. (Cl. 152—8.)



1. A tire for vehicle wheels, comprising a body member which is substantially U-shaped in cross section and which has outwardly extending sockets, transverse members connected to and bracing the sides of the tire, plunger members arranged in opposite staggeredly related series guided through said brace members, stems on the plungers received in the sockets, coil springs surrounding the sockets and urging the plungers in an outward direction, segmental plates fixed on the outer ends of the plungers, coengaging means between said plates and the inner sides of the tire for limiting the movement of the plates in both directions with respect to the tire and a solid rubber tread having its sides received between the sides of the tire and secured on said plates.

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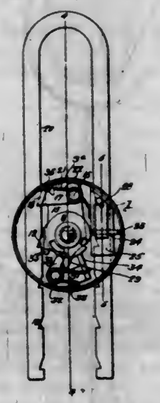
1,696,060. INTERNAL-COMBUSTION ENGINE. GEORGE W. SMITH, Jr., Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 21, 1925. Serial No. 76,909. 8 Claims. (Cl. 123—143.)



1. The method of introducing and firing a composite charge in the combustion chamber of an internal combustion engine, comprising the introduction and subsequent compression of a charge of atmospheric air, in then directing a stream of highly compressed over-rich mixture of hydrocarbon and air from one side of the compression chamber upwardly and inwardly toward the central portion of the head of the combustion chamber, in meanwhile providing a confined compressed minor charge of a more volatile mixture of hydrocarbon and air in communication with the compressed air being substantially unmixed therewith, and then igniting the said minor charge at a point remote from the chamber to introduce explosively the ignited volatile mixture to the mixture in the chamber.

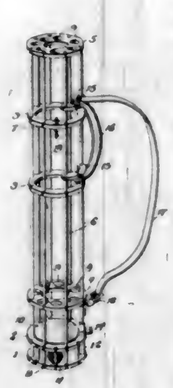
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1,696,061. COMBINATION PADLOCK. FRANK SOLEY, Philadelphia, Pa., assignor to the Yale & Towne Manufacturing Company, Stamford, Conn., a Corporation of Connecticut. Filed July 20, 1926. Serial No. 123,647. 5 Claims. (Cl. 70—113.)



1. The combination of a padlock of a casing; a shackle adapted to the casing; a pivotally mounted bolt-carrying lever; a bolt pivotally mounted thereon; a dog arranged to hold the bolt in the locked position; tumblers acting in conjunction with the dog; and means for actuating the tumblers to move them into locked or unlocked position.

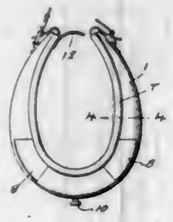
1,696,062. GOLF-CLUB CARRIER. LEWIS KELMUND THURLOW and JOHN P. AGNEW, Brooklyn, N. Y.; said Thurlow assignor to said Agnew. Filed Aug. 23, 1927. Serial No. 214,960. 3 Claims. (Cl. 150—1.5.)



1. A device of the character described, including a pair of spaced disks at the base thereof, a ring at the top thereof, rings intermediate the top and disks, and a circular series of rods connecting said disks and rings, said top ring and an intermediately positioned ring having circular series of openings adapted to receive golf clubs therein.

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1,696,063. HORSE COLLAR. ORISON H. THORP, Sr., Trenton, N. J. Filed Aug. 24, 1927. Serial No. 215,196. 1 Claim. (Cl. 54—19.)

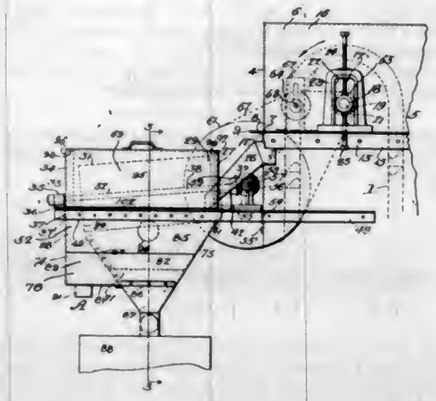


A draft animal collar of the character described comprising a hollow casing open its entire length, a hem formed by looping and sewing one of the edges of the casing upon itself, a bow arranged in said hem to provide a roll, a flap formed with said hem and adapted to receive the opposite edge of said casing in overlapped engagement therewith, said opposite edge being adapted to engage the roll to cooperate therewith to form a hames seat and being held accordingly by the engagement of hames with the said opposite edge and an elastic filler for said casing and being secured therein by said hames.

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1,696,064. SAND CLEANING AND RECLAIMING UNIT. HARRY W. TITGEN, Philadelphia, Pa. Filed Aug. 7, 1926. Serial No. 127,940. 5 Claims. (Cl. 209—247.)

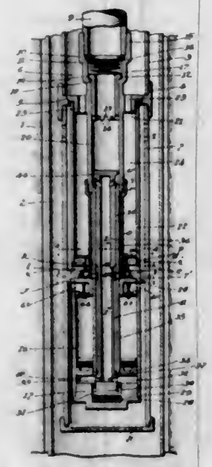
1. In a sand cleaning and reclaiming unit in combination, an elevator casing, a screen, a two-part housing therefor, one part of which comprises spaced side and end walls, and angles respectively secured to said side walls so that the flanges thereof provide elongated supporting



shoulders, at least one of said angles being extended to provide a supporting portion adapted to be secured to one wall of said elevator casing.

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1,696,065. EXHAUST SLEEVE FOR DEEP-WELL AIR PUMPS. RALPH T. TUCKER, Los Angeles, Calif. Filed Oct. 2, 1924. Serial No. 741,242. 9 Claims. (Cl. 103—46.)

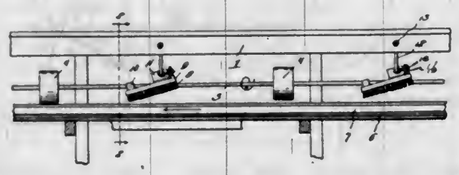


1. A pump of the class described, the combination with an oil tubing string and an air pipe string, of a coupling secured to the lower end of the oil tubing, an internal seat in the coupling, a housing extending downwardly from the coupling, a spider secured to the lower end of the air pipe and engaging the seat, a tubular cylinder extending from the air pipe through the spider, a cylinder supporting member extending from the spider downwardly, a cylinder head at the lower end of the supporting member and having inlet and outlet check valves, a piston cylinder extending downwardly from the cylinder head, means forming a head in the lower end of the cylinder, a spring buffer in the head, a piston in the piston cylinder, a hollow stem extending upwardly from the piston slidingly through the first cylinder head and slidingly into the air pipe cylinder, there being air outlet ports through the hollow stem above the first cylinder head, and a hollow valve closed at its upper end and extending slidingly through the hollow stem and adapted to be reciprocated in the stem by engagement with the buffers as the piston goes up and down, there being ports and port closing means operated by the reciprocation of the valve so as to let the air from the air pipe raise the piston and so as to exhaust the air to lower the piston, there being means for conducting the exhaust air to the open well outside of the pump mechanism.



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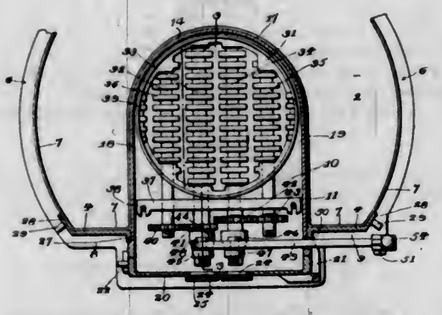
1,696,066. UPEDGING MEANS FOR FRUIT SIZERS. EDWIN M. WAYLAND, Covesville, Va. Filed Nov. 2, 1927. Serial No. 230,535. 15 Claims. (Cl. 209—91.)



1. In a fruit sizer, the combination of a trough, spaced gaging and ejecting means, a sizing belt, and means for engaging and bringing about spinning and up-edging apples and other fruit elements travelling on the sizing belt before such elements reach the gaging and ejecting means and insuring gaging and ejection of the apples or other fruit elements on the maximum diameters thereof.

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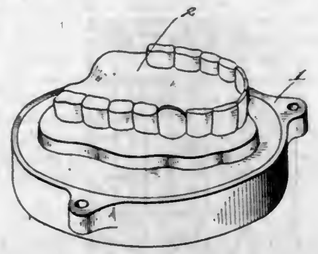
1,696,067. FURNACE. JOHN WILLIAM WESTWICK, Sr., Galena, Ill. Filed Apr. 18, 1927. Serial No. 184,648. 1 Claim. (Cl. 126—181.)



In a furnace means to provide a forwardly extending ash pit, a plurality of spaced pairs of intermeshing gears arranged in said means, each pair for connection with and for operating a pair of grate bars in opposite directions, a shiftable crank arm within said means for each pair of gears, a connecting bar pivotally attached to said arms for simultaneously operating them, said bar extending through and projecting outwardly from one side of said means, and an upstanding oscillatory lever pivotally connected at its lower end and further pivotally connected intermediate its ends to the outer end of said bar for the purpose of reciprocating it to provide for the shifting of said crank arm simultaneously.

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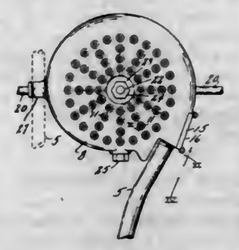
1,696,068. ARTIFICIAL DENTURE. ROBERT MORSE WITHYCOMBE, Sydney, New South Wales, Australia. Filed June 30, 1924. Serial No. 723,315. 3 Claims. (Cl. 32—4.)



1. A denture comprising a plate of material having the characteristics of vulcanite and formed integrally with a layer composed of sulphur and copper oxide to form a tissue contacting surface of a material superior to vulcanite in hardness and resiliency, which material progressively changes to a state of homogeneity with the vulcanite of the plate in the deeper parts of said layer.

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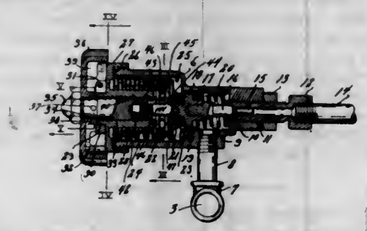
1,696,069. BURNER. JAMES A. WOOD, Toledo, Ohio, assignor to Liquo-Gas Company, Erie, Pa., a Corporation of Pennsylvania. Filed May 9, 1927. Serial No. 189,970. 6 Claims. (Cl. 158—108.)



1. A burner comprising as an integral structure a disk-shaped housing provided with a plurality of jet openings from upwardly extending cones in a plane, a circular chamber with which said openings communicate, the side of said housing below said openings having diametrically disposed pairs of burner-locating mounting lugs, a peripheral supply passage to said chamber extending in proximity to a plurality of jets for heating action therefrom, and a tangential leading-in fuel supply duct to said passage.

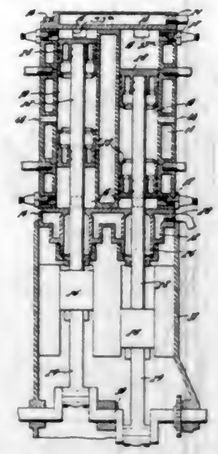
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1,696,070. VALVE. JAMES A. WOOD, Toledo, Ohio, assignor to Liquo-Gas Company, Erie, Pa., a Corporation of Pennsylvania. Filed May 9, 1927. Serial No. 189,971. 7 Claims. (Cl. 251—43.)



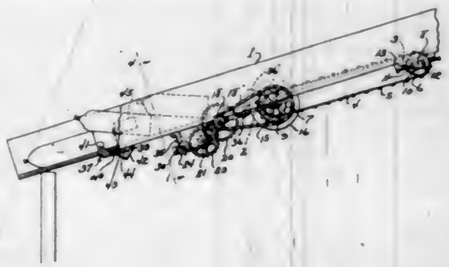
1. A valve having supply and discharge ports, a seat carrying member adjustable in one of said ports for varying the relationship of said seat and valve, a closure coacting with said seat, and a differential actuator for the closure.

1,696,071. ENGINE. FRANK H. WOOD and FRED C. BARNARD, Ithaca, N. Y. Filed July 3, 1925. Serial No. 41,338. 1 Claim. (Cl. 123—63.)



In an internal combustion engine, a block, a head fitting the block, the said block having inlet and exhaust ports and spark plug openings in the sides of the block, a single piston rod in each cylinder, two separate pistons carried on each rod, one firing on the up-stroke and the other on the down-stroke, and a means connecting the piston rods with the crank shaft, the said valve mechanism intake and exhaust ports being carried entirely on the sides of the engine so that the head is entirely free of any encumbrance.

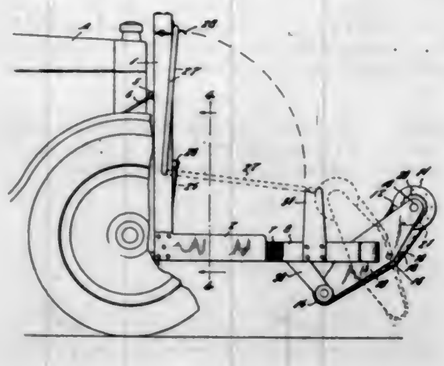
1,696,072. BRAKE FOR CONVEYERS. HOWARD ARMSTRONG, Humberstone, Ontario, Canada. Filed Jan. 31, 1927. Serial No. 164,937. 2 Claims. (Cl. 198—232.)



1. In a device for the purpose set forth, the combination with a chute having an endless conveyer therein and a fly wheel for the conveyer; of a brake for the conveyer comprising a shaft rotated by the movement of the conveyer, a weighted expansible governor on the shaft, a cable associated therewith, a pivoted brake shoe opposite the fly wheel connected with the cable and influenced into frictional engagement with the fly wheel when the cable is drawn taut by the expansion of the governor.

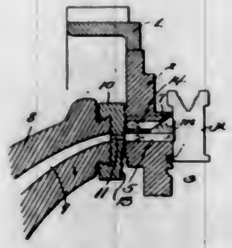
1,696,073. SAFETY DEVICE FOR VEHICLES. ANTON FRED AUGUST AUCHTER, Pittsburgh, Pa. Filed Feb. 8, 1928. Serial No. 252,854. 7 Claims. (Cl. 293—20.)

1. A safety device for motor vehicles comprising an upright frame, a horizontal frame secured to the upright frame, means for securing the frames to a motor vehicle, a pair of plates pivotally secured between the forward ends of the horizontal frame, a drum carried by one end of said plates, a belt trained about said drum, rollers receiving said belt, a seat loosely mounted and carried by the horizontal



frame, and a guard member carried by the upright frame and being moved to an operative position when weight is applied to said seat.

1,696,074. CASTING MEANS FOR TYPOGRAPHICAL MACHINES. FRANK E. BARBER, Brooklyn, N. Y., assignor to Intertype Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 10, 1928. Serial No. 260,769. 7 Claims. (Cl. 199—47.)



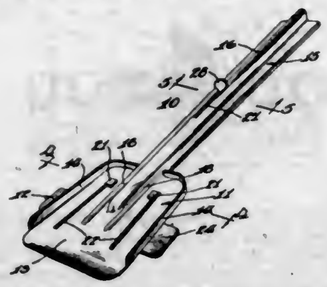
1. A mold for typographical machines having a cavity to receive metal and cast the body of a type bar therein, a recess to receive metal from said cavity, and a vent extending from said recess to the outside of the mold where it is non-communicative with the metal-receiving portion of said cavity.

1,696,075. METHOD OF MINING BORON COMPOUNDS. HENRY BLUMENBERG, Jr., Los Angeles, Calif. Filed Oct. 24, 1927. Serial No. 228,504. 3 Claims. (Cl. 262—3.)

1. A process of mining deposits of boron compounds containing kernite comprising subjecting the deposit to an alkaline solution of a compound of an alkali metal to convert the kernite to an easily soluble meta-borate and causing said meta-borate to go in solution, and removing said solution from the deposit.

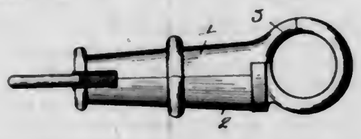


1,696,076. COMBINATION IMPLEMENT. PASQUALE BRUNI, Fort Lee, N. J. Filed Aug. 29, 1927. Serial No. 216,250. 3 Claims. (Cl. 15—105.)



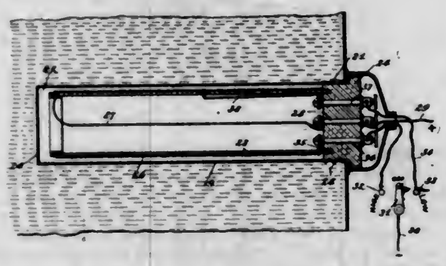
1. A combination implement comprising a shovel having a scoop, and handle extending therefrom, said scoop having converging slots therein, a holder slidably mounted on the underside of said shovel and provided with lugs passing through said slots, a flexible scraper carried by said holder, and manipulative means on said holder and operable from the said handle.

1,696,077. HOOK. HORACE DEAN, Laurier, Manitoba, Canada, assignor of one-half to Thomas Lloyd, Laurier, Manitoba, Canada. Filed Aug. 29, 1927, Serial No. 216,267, and in Canada Dec. 1, 1926. 1 Claim. (Cl. 24—239.)



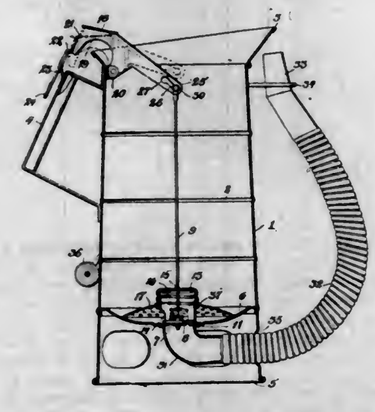
A hook comprising a circular hollow casing split in two sections having a recess formed therein, a ring segment carried by one of said sections, a rod disposed inside the sections one end of which terminates into a buckle and the other end into a ring section complementing the ring segment to form a complete circle, a loose washer on the rod, a spring surrounding said rod having one end secured thereto and the other end bearing against the loose washer, said washer being normally in engagement with the shoulder formed by the sections recess to urge the ring segment in a closed position, and means around the said sections for keeping same in a closely related position.

1,696,078. HEATING APPARATUS. JOSEPH DE RUVO, New York, N. Y. Filed May 21, 1927. Serial No. 193,157. 1 Claim. (Cl. 219—38.)



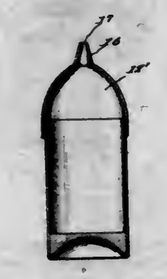
A water heater comprising a boiler, a tubular casing extending into the boiler from one of its ends, said casing having an open outer end and a closed inner end defining a heating chamber submerged in the water in the boiler, and an electric resistance heating device removably positioned within the casing and closing the outer end of the same to transmit the heat generated within the chamber through the chamber walls to the water in the boiler, the said electric resistance heating device including a base of insulating material constituting a plug having detachable threaded engagement within the outer open end of the casing for closing the same, a tubular inwardly projecting member of insulating material carried by said base, an electric resistance element helically wound upon said tubular member, a common feed conductor connected with said winding at the inner end, a pair of return conductors connected respectively to the outer end and to a point intermediate the ends of said winding, a common return conductor, and a switch including a pair of contacts and a movable switch arm.

1,696,079. MEASURING AND DISPENSING RECEPTACLE. CHARLES B. DOOLIN, San Antonio, Tex. Filed Apr. 30, 1927. Serial No. 188,005. 4 Claims. (Cl. 221—16.)



1. In a receptacle of the character described, a discharge outlet, a valve adapted to close said outlet, a spring adapted to resiliently hold said valve in operative position to prevent the flow of liquid through said outlet, a casing about the said spring and having openings in the bottom thereof through which the liquid may pass, a cap removably fitted on the top of said casing to hold the spring in position within the casing, a strainer for straining the liquid as it is being discharged the said strainer being positively held in operative position by an outwardly extending lip carried by the said cap which impinges against the upper surface of the strainer, thereby preventing disengagement of the strainer.

1,696,080. TOOTHPICK HOLDER. JOHN DRAGGIE, Pittsburgh, Pa. Filed Aug. 9, 1926. Serial No. 128,210. 1 Claim. (Cl. 312—73.)

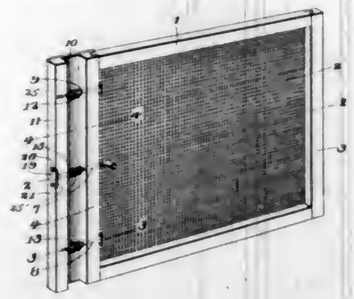


A tooth pick holder comprising a container open at its upper end, a weight member reposing upon the bottom of

the container, a cap substantially dome-shaped and having its lower portion of uniform diameter to accommodate itself to the upper portion of the receptacle, said cap providing a curved body portion projecting an appreciable distance above the container, and a relatively short substantially cone-shaped projection extending centrally from the cap, whereby the curved walls gradually arrest the movements of the tooth picks in the direction of the extension to prevent the tooth picks from jamming.

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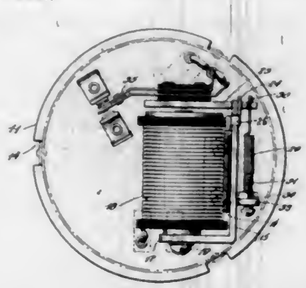
1,696,081. SIDE EXTENSION FOR WINDOW SCREENS. HORACE RAYMOND ELLIS, Meadville, Pa. Filed June 21, 1927. Serial No. 200,422. 3 Claims. (Cl. 156—38.)



1. An extension for window screens comprising a plate adapted to have its inner portion slidably positioned against one face of the screen frame, a bar secured to the outer portion of the inner face of said plate and adapted to oppose a side rail of the screen frame, a pair of spaced, combined coupling and stop members fixedly secured at their outer ends in said bar and of a length to slidably extend through said rail and formed with heads at their inner ends to abut said rail, an adjusting element rotatably mounted in and extending through and projecting from the inner side of said bar and having a head at its outer end abutting in outer side of said bar and having a head at its outer end abutting in outer side of said bar, said element of a length to extend through said rail and having a portion thereof threaded for threaded engagement with the rail and further provided with a handle at its inner end, and means secured to said bar for anchoring said element thereto.

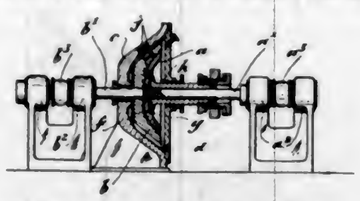
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1,696,082. ELECTRIC RELAY. EDWARD E. FORSTROM, Stratford, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 30, 1927. Serial No. 243,710. 6 Claims. (Cl. 175—336.)



1. In a relay, a supporting frame having lugs at one end, an armature notched to receive said lugs and a locking-plate apertured to pass over the end of the armature and having lugs engaging notches in the edges of the supporting frame.

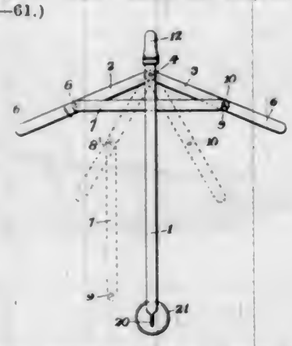
1,696,083. COLLOID MILL. ANDREW FRASER, Croyden, England. Filed Aug. 7, 1925, Serial No. 48,818, and in Great Britain Aug. 16, 1924. 5 Claims. (Cl. 83—13.)



2. A colloid mill comprising two co-operating disc members mounted on an axis common to both, a conduit to conduct material to the space between said faces and a conduit to conduct additional material to the said space at a point intermediate between the termination of the first conduit and periphery of said disc members, and means to admit light rays to the material passing through said space.

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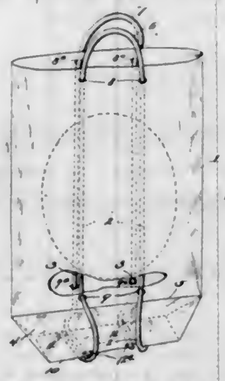
1,696,084. HANGER. FLORINDA GARDNER, Tampa, Fla., assignor of one-half to Mattie Nunn Mason, Tampa, Fla. Filed May 17, 1928. Serial No. 278,473. 2 Claims. (Cl. 223—61.)



1. A hanger comprising a pair of arms, a brace pivoted to one arm and adapted for removable connection with the other arm, and a supporting member for pivotally supporting the arms and for holding the brace in position.

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1,696,085. SHOPPING BAG. JAMES RALPH GIBSON, Brooklyn, and TRUE M. AVERY, Glens Falls, N. Y., assignors to Union Bag and Paper Corporation, New York, N. Y., a Corporation of New Jersey. Filed Dec. 6, 1926. Serial No. 152,966. 9 Claims. (Cl. 229—54.)



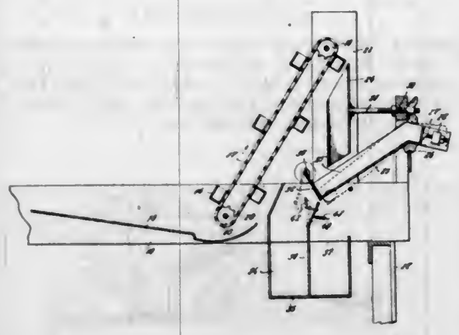
1. A bag of the class described having a flat bottom foldable along a line toward a side thereof, and load



sustaining cord means arranged beneath the bag bottom and extending therefrom to the inside of the bag through said side of the bag at such a level with respect to said line of fold as to permit the bag bottom to unfold substantially without pulling said cord means while tensioned.

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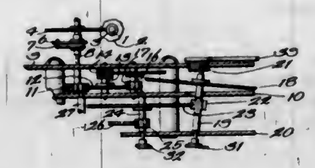
1,696,086. NUT GRADER AND SORTER. RALPH P. HARDY, Ocean Springs, Miss. Filed Oct. 24, 1927. Serial No. 228,403. 3 Claims. (Cl. 209—121.)



1. A machine of the character described comprising a trough, endless chains operating above the trough, buckets carried by each chain and adapted to singly receive nuts from the trough, a balanced beam arranged beneath each chain and upon which the nuts are singly deposited from said buckets, a gate normally closing the lower end of each beam, the heavy nuts tilting said beam to allow said nuts to fall therefrom, means for directing said nuts in a particular direction, and means for opening said gates at predetermined intervals to allow the lighter nuts to drop from said beams in a different direction from said heavy nuts.

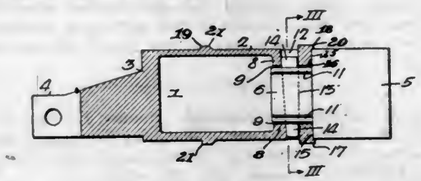
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1,696,087. TOTALIZING MECHANISM. JESSE HARRIS, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a Corporation of Illinois. Filed Aug. 12, 1926. Serial No. 128,845. 1 Claim. (Cl. 235—144.)



Totalizing mechanism including motion transmitting speed reducing gearing; a gear wheel in mesh with the final gear of said speed reducing gearing; an index upon the shaft of said gear wheel; and a bearing for said shaft and mounted to turn upon its own axis and upon which bearing this shaft is journaled excentrically to the axis of the bearing, said bearing and said gear wheel being relatively disposed to enable said gear wheel to be thrown out of connection with the aforesaid reducing gearing by suitably turning the aforesaid bearing, the axes of said bearing and gear wheel being substantially parallel when said gear wheel is in mesh.

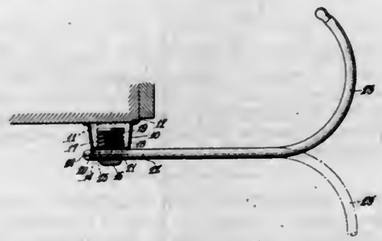
1,696,088. STOKER PLUNGER. CLIFFORD E. HARRISON, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 19, 1925. Serial No. 16,717. 14 Claims. (Cl. 198—226.)



1. A plunger comprising a hollow main body portion provided with an end wall having a recess, an extension for said main body portion, said extension having a projecting shoulder disposed in said recess, said shoulder and said main body end wall being provided with registering borings, and a locking element positioned in said borings.

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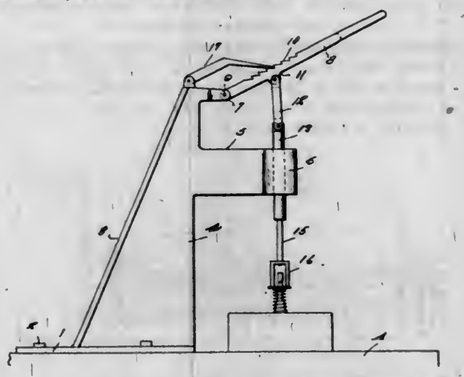
1,696,089. WINDOW-CURTAIN GUARD. HELEN T. HUEY, Stonehurst, Pa. Filed Mar. 31, 1926, Serial No. 98,775. Renewed Nov. 2, 1928. 3 Claims. (Cl. 156—33.)



1. In a window curtain guard, the combination with an inverted cup shaped base to be attached to a window frame, of a headed stud having a shank mounted in the end of the base, said shank provided with an opening in one of its ends and a head at its other end, a curtain engaging and holding member extending through said opening, spring means on the stud operable between said head and the end of the base, whereby sufficient tension is created to hold said member frictionally in engagement with the outer side of said end of the base either in a horizontal or a vertical position.

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1,696,090. VALVE-SPRING COMPRESSOR. ALVIN JONES, Fort Benton, Mont. Filed Apr. 6, 1928. Serial No. 267,935. 3 Claims. (Cl. 29—86.3.)



1. A spring compressor of the character described comprising a base, an upright formed with said base, a web

formed with said base and upright respectively, an extension formed with said web, a bearing sleeve on said extension, a plunger mounted for movement in said bearing sleeve and being provided with a bore, a handle having pivotal connection with said web and with said plunger respectively, a substantially U-shaped member providing a spring tool, and a shank formed with said U-shaped member and being detachably secured in the bore of said plunger.

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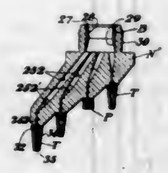
1,696,091. BLOWPIPE NOZZLE. ROBERT J. KEHL, Chicago, Ill., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed June 11, 1921. Serial No. 476,858. 4 Claims. (Cl. 158—274.)



1. A multiple flame blowpipe nozzle comprising a main gas passage, a series of outlet passages branching from said main passage, and tips and plugs having portions adapted and arranged to removably and interchangeably fit said outlet passages whereby the orifice arrangement of the nozzle may be varied.

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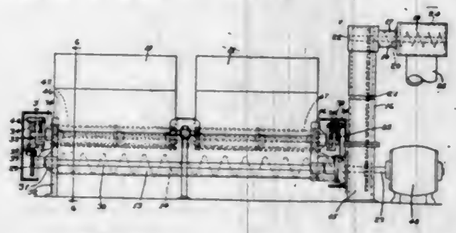
1,696,092. MULTIPLE-FLAME BLOWPIPE NOZZLE. ROBERT J. KEHL, Chicago, Ill., assignor to Oxweld Acetylene Company, a Corporation of West Virginia. Filed June 11, 1921. Serial No. 476,859. 6 Claims. (Cl. 158—27.4.)



1. A multiple flame blowpipe nozzle having an inlet cavity, outlet passages leading from said cavity, and a gas directing means in said cavity having a central passage therethrough tapering to a point intermediate its ends and then flaring to the entrances of said outlet passages.

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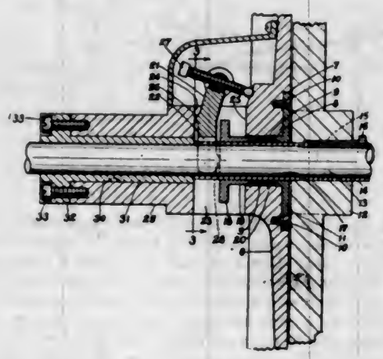
1,696,093. COMBINED BLENDING AND SIFTING DEVICE. WILLIAM G. KIRCHHOFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 14, 1924. Serial No. 732,072. 5 Claims. (Cl. 83—44.)



1. In a flour sifting and blending device the combination of a plurality of bins having relatively elongated discharge openings arranged in closely adjacent end to end relation, a trough extending beneath said opening, agitators in said bins, a shaft in the trough, a conveyor screw on said shaft, adjustable means operable from said shaft whereby to impart differential intermittent rotary movements to the several agitators for effecting discharge of substance over an extended portion of the conveyor screw, the several substances being subjected to mixing during and after discharge, an elevator for receiving the substance driven from and moving in synchronism with the conveyor shaft and a revolving screen member driven from the conveyor shaft whereby the substance from the elevator is uniformly sifted and aerated.

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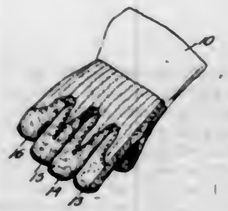
1,696,094. STUFFING BOX AND BEARING STRUCTURE. WILLIAM G. KIRCHHOFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 30, 1926. Serial No. 105,827. 3 Claims. (Cl. 308—134.)



1. In a stuffing box structure, the combination with a tank wall having a bore therethrough of a perforated plate of non-corroding metal having an annular flange extending into the bore in the tank wall, a steel shaft journaled exteriorly of the tank wall and extending through the bore therein, a sleeve of non-corroding metal carried by the shaft and terminating at its journaled bearing, a non-corroding hub on the sleeve adjacent the plate, means for securing the hub, sleeve and shaft against relative rotation and stuffing means comprising packing material and a gland, surrounding the sleeve in the bore in the wall for compressing the packing material against the annular flange.

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1,696,095. GLOVE. ARCH KYLE, Knoxville, Tenn., assignor to Knoxville Glove Company, Knoxville, Tenn., a Corporation. Filed Mar. 12, 1927. Serial No. 174,828. 1 Claim. (Cl. 2—161.)

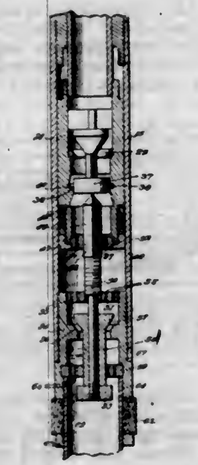


A glove comprising a piece of fabric of a size sufficient to form the front and back of the glove and slit along its outer edge adjacent the palm portion to form individual linings for the fronts of the fingers and slit on the same edge at the back to form individual linings for the backs of the fingers, a leather reinforcing member formed to cover the palm of the glove and slit at its outer edge to form an individual covering for the front of each finger, leather reinforcing members for the backs of the fingers each formed with a cut-out portion to leave the fabric covering the knuckle-joints uncovered on the backs of the fingers but covering the tips and sides of the fingers and extending to the crotch between the adjacent fingers, said back members being stitched to each other at the crotch-forming points and to the fabric forming the backs of the fingers adjacent the edges of the cut-out portions, the leather tips for protecting the backs and sides of the fingers being stitched to the leather members protecting the fronts of the fingers along the meeting edges and outside the edges of the finger back linings which are joined in the seam at the finger tips only, whereby the seams along the sides of the fingers are thus made of a comparatively flexible and pliable character, substantially as set forth.



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1,696,096. SAND-TESTER PUMP. GEORGE F. LE BUS, Electra, Tex. Filed Apr. 27, 1927. Serial No. 187,043. 7 Claims. (Cl. 103—221.)

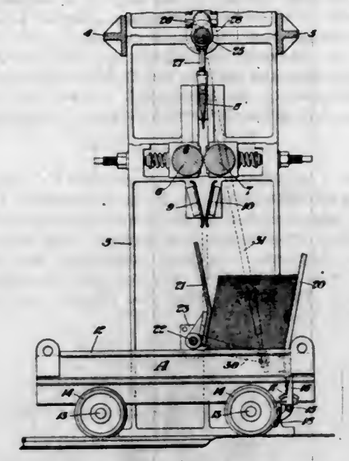


1. In a sand tester pump, a shell, a plunger in said shell adapted to be reciprocated and provided with a valve seat, a valve adapted to engage the seat, and means adapted to be rotated and force the valve and maintain said valve off the seat.

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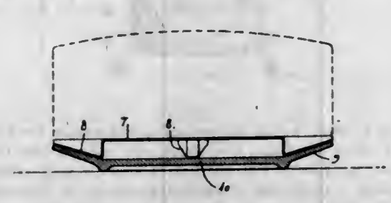
1,696,097. DOUBLING APPARATUS. ARTHUR R. MCARTHUR, Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Jan. 14, 1928. Serial No. 246,876. 4 Claims. (Cl. 153—21.)

2. A doubling apparatus for sheets and plates comprising, in combination, a housing, a doubling mechanism mounted on said housing, said mechanism including a doubling knife and doubling rolls, and means including a crank-shaft for operating said doubling mechanism, a shaft journaled on said housing, a packing head secured on said shaft, said head being adapted to be rocked back and forth to pack the doubled sheets, a lever secured to said last-named shaft, a pin mounted eccentrically on said crank-shaft, and a link connecting said pin and said lever so that said lever will be rocked by each revolution of said crank-shaft.



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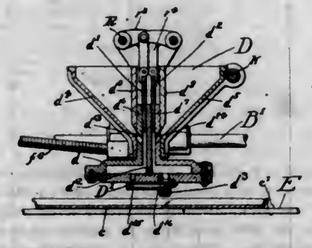
1,696,098. CAKE-PLATE LEVELER. JOHN R. MCGRANIGHAN, Philadelphia, Pa. Filed May 31, 1927. Serial No. 195,482. 1 Claim. (Cl. 65—53.)



A cake support comprising a sheet metal disk adapted to support a cake thereon and having integral depressed portions at spaced points of its margin, said portions extending inwardly from the edge of the dish and increasing in depth inwardly so that the bottoms of said portions are inclined to seat on the inclined rim of a dish.

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1,696,099. CAKE FORMING AND DEPOSITING MACHINE. JOEL MOORES, Norwood, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Feb. 21, 1920. Serial No. 360,536. 36 Claims. (Cl. 107—1.)

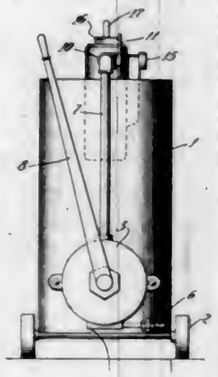


1. In a cake forming and depositing machine the combination of a hopper, a means for reciprocating the hopper,

a conveyor adapted to be fed continuously beneath the hopper, the hopper having in its bottom a die adapted to be moved from an upper to a lower position and vice versa through the bottom of the hopper, the hopper having a port in its wall opened in the upper and closed in the lower position of the die, plungers adapted to draw a charge of dough from the hopper through the port into the die and to discharge the charge upon the pan, means adapted to raise the die and the plungers upon the backward movement of the hopper and to lower the die and the plungers upon the forward movement of the hopper.

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1,696,100. METHOD FOR CLEANING LUBRICANT CASES OF ENGINES. WILLIAM L. OSBORNE, Los Angeles, Calif., assignor, by direct and mesne assignments, to Osborne Process, Inc., Los Angeles, Calif., a Corporation of California. Original application filed July 3, 1924, Serial No. 724,089. Divided and this application filed Jan. 15, 1927. Serial No. 161,331. 10 Claims. (Cl. 184—1.5.)



1. A process which comprises withdrawing used lubricant from a lubricant container, and preventing the return of any substantial portion thereof to said container, thereafter introducing a limited quantity of flushing liquid into said lubricant container, no substantial amount of which had heretofore been used in said container, maintaining a cyclic circulation of said limited quantity of flushing liquid from said container through a filtering medium and back to said container, and finally withdrawing said flushing liquid and thereafter preventing the return of any substantial portion thereof to said container.

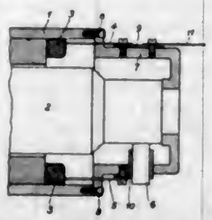
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1,696,101. LIFTING JACK. HENRY PERCIVAL SALSBURY, London, England. Filed Dec. 5, 1927, Serial No. 237,916, and in Great Britain Nov. 23, 1926. 1 Claim. (Cl. 254—113.)



In combination a vehicle spring, an elongated channelled guiding member firmly secured at one end to the spring, a member on the jack movably engaged with said guiding member whereby the jack may be guided into operative position beneath the spring, and a wedge-shaped member inserted between the vehicle spring and the guide member inwardly of the opposite end of the latter.

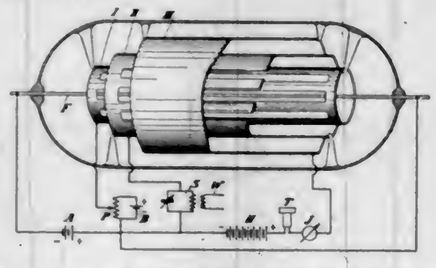
1,696,102. CONTINUOUS-CURRENT DYNAMO-ELECTRIC MACHINE. ANTON SCHMID and ADOLF STOLL, Stuttgart, Germany, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Apr. 5, 1927, Serial No. 181,054, and in Germany Apr. 15, 1926. 4 Claims. (Cl. 172—36.)



1. A continuous-current dynamo-electric machine adapted for rotation in forward or reverse direction, said machine comprising a bearing support for the armature, a field winding, and connecting pieces for the ends of said field winding, said connecting pieces being provided on said armature bearing support and positioned diametrically relatively to each other and to the axis of rotation of said machine, and means for securing said connecting pieces in positions with respect to the field-winding which are displayed by 180° relatively to each other, whereby the field-winding connections may be reversed with respect to the armature.

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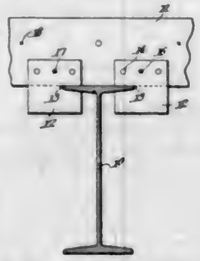
1,696,103. ELECTRIC DISCHARGE TUBE. GEORG SEIBT, Berlin-Schoneberg, Germany. Original application filed Aug. 26, 1921, Serial No. 495,504, and in Germany Oct. 24, 1913. Divided and this application filed Sept. 25, 1924. Serial No. 739,882. 4 Claims. (Cl. 250—27.5.)



4. An electron discharge device having an electron emitting cathode, a control electrode, an anode, and a cylindrical electrode made up of conducting slats said electrode being interposed between said cathode and said anode.

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1,696,104. CLIP FOR SECURING WOOD TO IRON BEAMS. ROY R. SEWARD and JOHN A. BOOE, Indianapolis, Ind. Filed June 15, 1927. Serial No. 199,066. 1 Claim. (Cl. 185—35.)



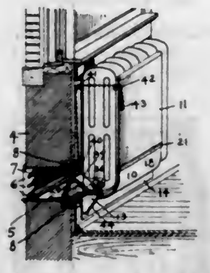
The combination of a supporting metal member having a laterally extending tapered flange, transverse wooden



members extending across the flange, and means for securing said wooden members on said flange, comprising a stamped sheet metal plate having an elongated tapered recess for receiving the flange and for engaging opposite sides of the same to form a tight fit, said member having spaced apertures to receive nails for entering one of the wooden members and an intermediate oppositely disposed projection integrally formed on the metal plate adapted to pierce an adjacent wooden member when it is forced against said intermediate projection, substantially as set forth.

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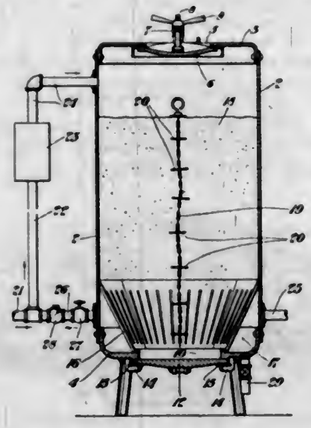
1,696,105. COMBINED BOX BASE AND DAMPER. CLARENCE C. SHIPP, Indianapolis, Ind. Filed Dec. 23, 1927. Serial No. 242,160. 9 Claims. (Cl. 257—135.)



4. The combination with a wall box, of a radiator box-base having a bottom opening and also having a lateral sleeve extension outside vertical flange on the sleeve extension, said sleeve extension telescopically assembled within the wall-box, into contact of the flange, means for fastening the flange to the wall, a door to close the opening hinged at its rear edge to the box-base, a valve seat in the sleeve extension, a hinged valve co-operating with the seat, a lever in the box-base pivoted at one end, means for elevating the free end of the lever, means connected with the lever for opening the hinged valve and means connected with the lever for closing the door when the valve is open.

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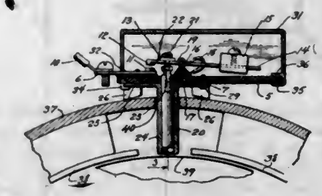
1,696,106. WATER-DEACTIVATING APPARATUS. FRANK N. SPELLER, Pittsburgh, Pa. Filed May 16, 1927. Serial No. 191,718. 5 Claims. (Cl. 210—16.)



1. A water deactivating apparatus comprising a tank having an inlet opening at one end for the admission of the deactivating material and an outlet opening at the other end for the discharge of the used deactivating material, removable closures for said openings, a frustoconical grid in the discharge end of said tank, said grid having its smaller end open and communicating with said outlet opening of asid tank and having the pefipheral edge of its larger end engaged with the side walls of said tank, thereby leaving a space between the side walls of said grid and said tank for the collection of deactivated water, an inlet at one end of said tank for water to be deactivated, and an outlet for the deactivated water at the other end of said tank and communicating with the space between the side walls of said grid and said tank.

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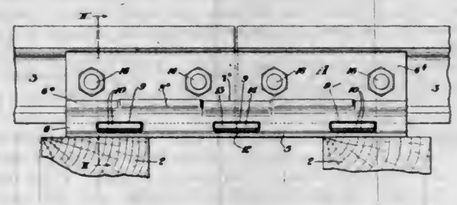
1,696,107. AUTOMATIC MAGNETIC SWITCH. RICHARD C. BIERBOWER, San Antonio, Tex. Filed Apr. 12, 1927. Serial No. 183,100. 7 Claims. (Cl. 171—313.)



4. The combination with a shunt-wound generator having an armature, a switch having contacts in the load circuit of the generator and including a magnetically-attractable member for closing the switch when attracted, said member being located in closely spaced relation with respect to the armature whereby the member will be attracted to close the switch by the direct magnetic action between said member and the armature.

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1,696,108. RAIL JOINT. JAMES K. BOYD, Wilkinsburg, and FRANK F. SLICK, North Braddock, Pa. Filed June 28, 1928. Serial No. 288,891. 6 Claims. (Cl. 238—205.)



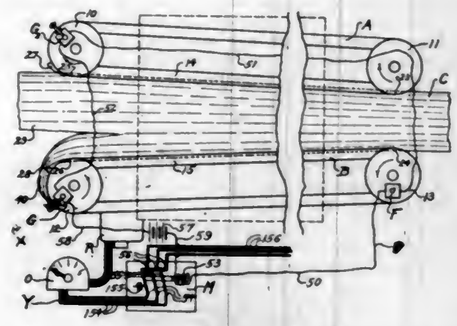
6. A rail joint comprising, in combination, a pair of rails, a fish-plate member connecting said rails, said fish-plate member having inwardly extending portions overlying the base flanges of said rails and upstanding web engaging portions, said inwardly extending portions of said fish-plate portions overlying the base flanges of said rails being provided with alternate projections and depressions so as to form definite points of contact and intermediate spaces of contraflexure for the rails.

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1,696,109. ELECTRIC STOPPING DEVICE FOR STRETCHING MACHINES. WILLIAM DEWHURST, Methuen, Mass. Filed July 5, 1928. Serial No. 290,675. 2 Claims. (Cl. 26—57.)

1. In a cloth stretching machine of a type wherein the cloth is carried along between endless chains of pincers, which pincers move around and away from the point where they normally release the cloth; the combination of two automatic electric stopping switches each positioned beyond said releasing point and each having a handle so

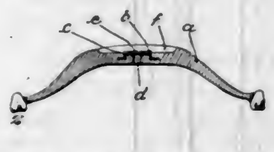
pivoted that it will be struck and thrown by any substantial piece of cloth which is carried away and around from said releasing point; a hand operable switch positioned at a third point on said machine; the automatic switches and said hand switch being interposed in a switch circuit from



a source of electric power, said circuit also passing through an electro-magnet which has an armature the operating member of a device for stopping and starting the cloth handling machine, the parts being so arranged that the machine is stopped when the switch circuit is open.

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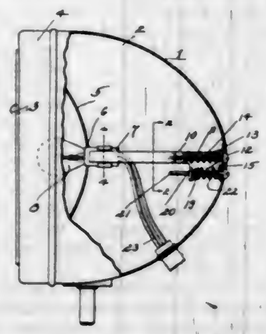
1,696,110. DENTAL PLATE WITH SUCKER. OTTO DÖBELE, Constance, Germany. Filed Oct. 7, 1927, Serial No. 224,682, and in Germany July 23, 1926. 2 Claims. (Cl. 32—4.)



1. In combination, a dental plate having a cavity, a membrane holder embedded in the plate, a suction membrane retained between the holder and plate, said holder having an opening therein, said membrane having a perforation in the portion exposed through the opening in the holder and said perforation being adapted to open to permit withdrawal of air from the cavity and being self-closing to prevent the subsequent return of air to said cavity.

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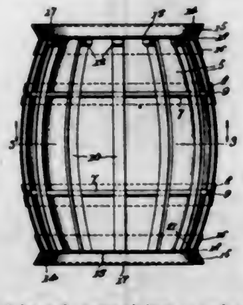
1,696,111. VEHICLE HEAD LAMP. HAROLD B. DONLEY, Columbus, Ohio, assignor to the John W. Brown Mfg. Co., Columbus, Ohio, a Corporation of Ohio. Filed Dec. 27, 1926. Serial No. 157,124. 1 Claim. (Cl. 240—44.)



In a lamp, a casing, a reflector mounted within said casing and provided with an axial opening, a bulb support freely movable within said opening and adapted to carry an incandescent bulb in advance of said reflector, an adjusting screw disposed axially within said casing between said reflector and the back wall of the casing, a connecting member having the forward end thereof secured to said support and the rear end thereof provided with a threaded bearing for the reception of the threaded shank of said screw, spring means for retaining said screw in its positions of adjustment, a member pivotally mounted contiguous to the rear wall of said casing and in horizontal alignment with said screw, the outer end of said pivoted member being associated with said bulb support to swing the latter vertically, a second screw engaged with a threaded bearing carried by said pivoted member, and sprag means for retaining said threaded screw in its various positions of adjustment.

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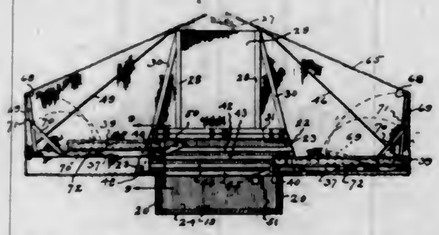
1,696,112. METALLIC BARREL. JAMES HENRY GEORGE, Orange, N. J. Filed Aug. 2, 1927. Serial No. 210,172. 1 Claim. (Cl. 220—73.)



An all metal barrel, comprising a series of staves having outwardly flared ends, and inwardly turned side flanges terminating short of said ends, locking strips of the same length as said flanges slidably engaging said flanges, pan shaped dished metal heads each having a flat base and sides flaring outward in the form of a truncated cone, with the circular angled edge of the head directly engaging the circular angled line of bend between the main body part and the flared out ends of the staves, each head having its base resting on the ends of said flanges, and its tapering sides fitting snugly between the flared out ends of said staves, with a cap for holding each head in position provided with an inwardly turned tapering portion having its free end abutting against the barrel head, said cap having its outer portion bent over the free ends of the staves and over the outer perimeter of the dished head and bent downwards to engage into and project below the groove formed at the base of the outward flare of the staves.

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1,696,113. AUTO CAMP TRAILER. EDWARD RAY GILKISON, Terre Haute, Ind. Filed July 6, 1926. Serial No. 120,645. 11 Claims. (Cl. 296—23.)



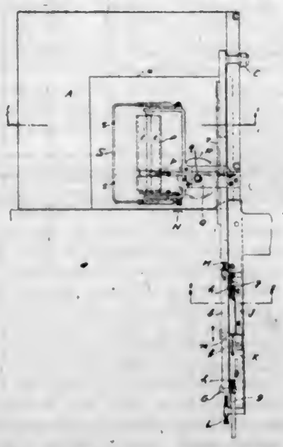
1. In a camp trailer, a floor, fixed ends projecting from the floor, an upper end fixed to each of said fixed ends adapted to swing inwardly toward each other, a bed slidingly retained between said fixed ends whereby the bed may



be pulled horizontally out to extend beyond and give access to the floor, a support permanently extending from the floor to under the bed to maintain the bed in a horizontal position while being moved in or out from the floor, means of limiting the outward travel of the bed, and a woven covering secured to said fixed and hinged ends passed over, around, and under said bed to form a complete tent enclosure when the bed is extended beyond the floor, said covering being adapted to be folded over the bed when the bed is positioned over the floor and the hinged ends are swung downwardly onto the bed.

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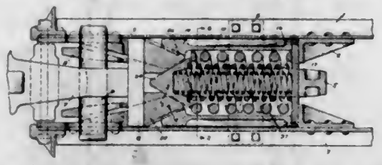
1,696,114. SHEET-FEEDING MECHANISM. SYDNEY FREDERICK HERBERT GOFFIN, St. Albans, England. Filed July 18, 1927, Serial No. 206,714, and in Great Britain July 27, 1926. 10 Claims. (Cl. 271—22.)



1. A sheet feeding mechanism comprising a reciprocating gripper, a spring-pressed guide for pressing the edge of a sheet against the gripper while it moves in one direction and hold-fast means for pressing said sheet against the guide and moving the sheet and guide out of contact with the gripper and holding the sheet stationary while the gripper returns.

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1,696,115. DRAFT GEAR. ERNEST G. GOODWIN, Pelham, N. Y., assignor to Standard Coupler Company, New York, N. Y., a Corporation of New Jersey. Filed July 11, 1924. Serial No. 725,447. 11 Claims. (Cl. 213—26.)

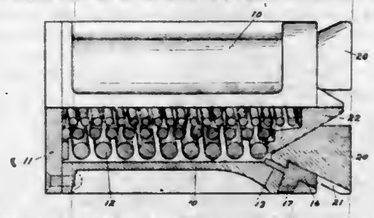


1. In a friction draft gear a spring barrel, a friction box, a block frictionally engaging said box, and a spring urged wedge frictionally engaging said block; said box and block having interengaging surfaces, one of said surfaces being concave while the other is convex, each curve having an average radius greater than the distance from the center of the gear to the outside surface of the spring barrel.

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1,696,116. WEAR PLATE. ERNEST G. GOODWIN, Pelham, N. Y., assignor to Standard Coupler Company, New York, N. Y., a Corporation of New Jersey. Filed June 29, 1926. Serial No. 119,396. 4 Claims. (Cl. 213—26.)

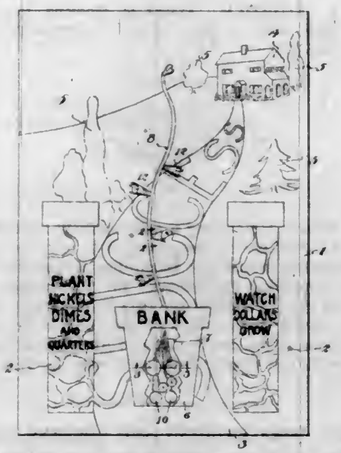
1. In a draft gear, a spring barrel having two outwardly diverging walls at the open end, each wall having a recess therein, a pair of wear plates each having a lug fitting one of said recesses, a center wedge, a spring engaging said wedge and the closed end of said barrel, a plurality of side wedges in engagement with said center



wedge each having a groove extending part-way only of its outer friction face, and a guiding rib on each plate opposite the lug for engaging said grooves to guide and limit movement of said side wedges.

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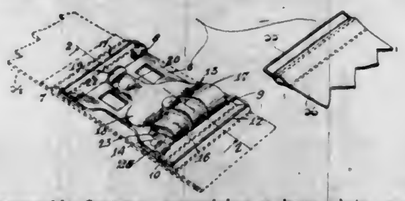
1,696,117. SIGN. JOSEPH E. GUY, Waynesboro, Pa. Filed Nov. 16, 1927. Serial No. 233,662. 2 Claims. (Cl. 40—126.)




1. An advertising device comprising a board having displayed thereon the representation of a potted plant and provided with coin-receiving pockets adjacent the representation of roots of the plant and being further provided along the representation of the stem of the plant with openings to receive currency.

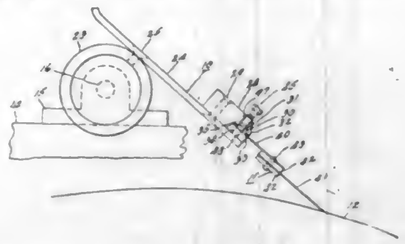
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1,696,118. SEPARABLE FASTENER. EDITH R. HEINTZ, Cincinnati, Ohio. Filed Apr. 30, 1926. Serial No. 105,816. 1 Claim. (Cl. 24—69.)



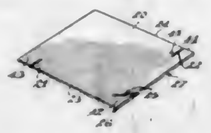
A separable fastener comprising a base plate, a substantially centrally positioned stationary hook at one end of the base plate, a forked clasp pivotally mounted at the hook end of the base plate with the hook between the branches of the fork, a spring adapted to move the clasp toward the base plate, and snap fastener elements on the base plate and clasp adapted to secure the clasp relatively to the base plate to prevent displacement of an article from the hook.

1,696,119. PAPER MACHINERY. RALPH E. HEISEL, Chillicothe, Ohio, assignor to the Mead Pulp & Paper Company, Dayton, Ohio, a Corporation of Ohio. Filed Mar. 7, 1927. Serial No. 173,400. 9 Claims. (Cl. 92—74.)



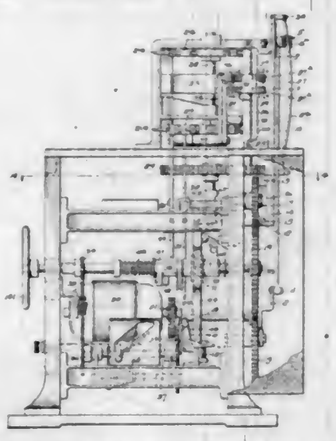
1. A doctor of the character described comprising a body portion, and a separate blade portion having interlocking engagement with an detachably connected to said body portion.

1,696,120. SHINGLE. JAMES E. HOOKER, Coral Gables, Fla. Filed Feb. 13, 1928. Serial No. 254,037. 2 Claims. (Cl. 108—7.)



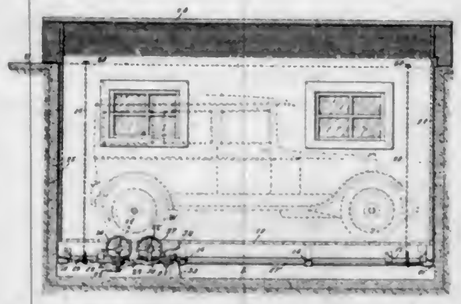
1. A shingle comprising a substantially square sheet of roofing material cut at three corners to provide a plurality of interlocking means, the remaining corner which is free of a cut providing an indicator for positioning the shingle on the roof, certain of the cuts forming slits which are at right angles to the edges of the shingle, the other slit being located at an acute angle to an edge of the shingle and extending inwardly from said edge towards an adjacent edge.

1,696,121. WIRE FOLDING AND CUTTING MACHINE. DANIEL D. HUYETT, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Aug. 4, 1925. Serial No. 48,108. 32 Claims. (Cl. 140—71.)



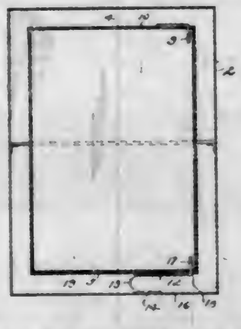
1. A machine of the character described, comprising a wire receiving support, a shuttle, a guide in which said shuttle is mounted, a reciprocatory connecting rod imparting vertical reciprocation to said shuttle along said guide, a cross-head, by which said guides are carried, a connecting rod for imparting horizontal reciprocation to said cross-head, outwardly bowed guides carried by and movable with the crosshead, and engaging a movable part of the shuttle to move said part outwardly with respect to the wire being wound, at substantially the central part of the vertical stroke of said shuttle.

1,696,122. ELEVATOR. ALFRED NORDLAND, De Smet, S. Dak. Filed July 25, 1927. Serial No. 208,322. 6 Claims. (Cl. 187—17.)



3. In an elevator, a shaft carried by the elevator, cables wound upon the shaft and adapted to raise or lower the elevator when the shaft is rotated, spaced shafts carried by the elevator and disposed at right angles to the cable wound shaft, gearing connecting one of the spaced shafts with the cable wound shaft, means carried by the spaced shafts for engagement by the wheels of an automobile to drive said spaced shafts and rotate the cable wound shaft in accordance with the direction of rotation of said drive wheels and means operable when the elevator reaches a landing to cause the drive wheels of the automobile to disengage the spaced shaft carried means and provide a brake to stop the operation of the cable wound shaft.

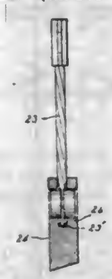
1,696,123. HINGE MOUNTING FOR CABINET DOORS. WILLIAM H. PACKER, Columbus, Ohio, assignor to Ohio State Stove Mfg. Co., Columbus, Ohio, a Corporation of Ohio. Filed Oct. 15, 1926. Serial No. 141,723. 4 Claims. (Cl. 312—141.)



1. In a cabinet of the character set forth, a casing structure having an opening in the front wall thereof, a door arranged in said opening, pivot means for supporting said door consisting of a fixed pintle and socket construction for one corner of said door, and a wire member for supporting the other corner of said door, said wire member being formed to include a pair of angularly disposed arms arranged within said casing structure and resiliently movable with respect to each other, one of said arms being provided at its outer end with a pintle arranged in registration with said first named pintle and removably positioned within a socket provided in one corner of said door.

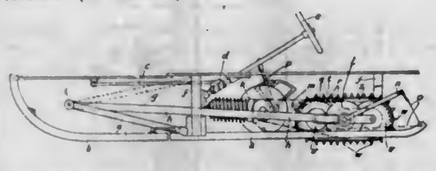


1,696,124. ELECTRICAL CONNECTION AND METHOD OF FORMING THE SAME. ALFRED G. PLIMMER, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Mar. 3, 1926. Serial No. 92,000. 4 Claims. (Cl. 171—326.)



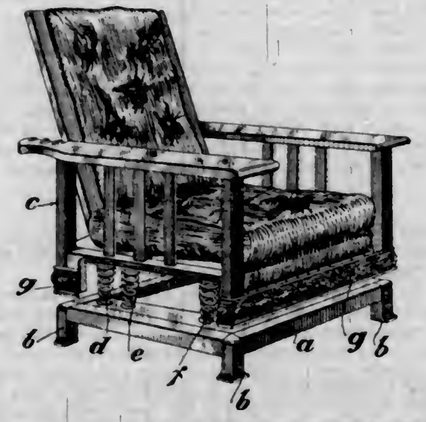
1. A conducting body having intersecting passages therein, a conductor in one of said passages, means in the other passage for gripping said conductor, said gripping means comprising a single piece of deformable material having opposed abutments gripping said conductor therebetween.

1,696,125. PROPELLING ARRARNGEMENT ON SLEIGHS. JAKOB RANTASA, Vienna, Austria. Filed Aug. 24, 1925, Serial No. 52,095, and in Austria Sept. 13, 1924. 5 Claims. (Cl. 180—5.)



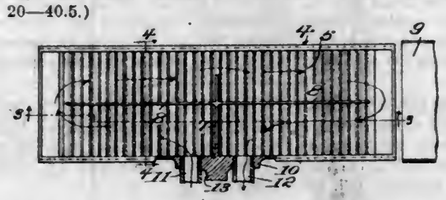
1. A sleigh having its runners provided with forwardly and upwardly extending arms, a frame arranged between the runners and pivotally mounted at its front end between the front ends of said arms, a motor on said frames, and a traction unit mounted at the rear end of said frame and comprising traction wheels having wedge-shaped peripheral grooves, and an endless traction band connecting said wheels, said band being provided on its inner side with such wedge-shaped projections arranged to enter said grooves.

1,696,126. SPRING SUPPORT FOR CHAIRS, COUCHES, AND THE LIKE. ALBERT HARRY SALMON, Twickenham Park, England. Filed Mar. 31, 1926, Serial No. 98,894, and in Great Britain May 25, 1925. 1 Claim. (Cl. 155—50.)



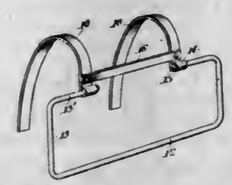
A chair comprising an integral under-structure including side rails and end rails, an integral over-structure including seat and back, a set of conical coil springs arranged tandem fashion on each side rail of said under-structure with their smaller ends resting on said side rail and their larger ends supporting said over-structure, the springs supporting the front end of aid over-structure being less in number but of heavier gauge than those supporting the rear end of said over-structure and the several springs of the two sets constituting the sole means for limiting relative movement between said two structures in a horizontal sense in all directions.

1,696,127. WINDSHIELD HEATER. DEVERE D. SAPPENFIELD and FRED M. SHEETS, Kansas City, Kans. Filed Sept. 23, 1927. Serial No. 221,544. 2 Claims. (Cl. 20—40.5.)



1. A windshield heater comprising a hollow body having one of its faces corrugated and having compressible strips frictionally received in the end corrugations and extending therethrough for contacting with the inner face of a windshield, means supporting the body, and means for directing heat through the body.

1,696,128. HANGER. PARKE E. SHEE, Lancaster, Pa. Filed Nov. 25, 1925. Serial No. 71,461. 4 Claims. (Cl. 211—123.)



1. A garment hanger of the class described, comprising a pair of substantially flat strap-like hooked arms adapted to be detachably connected to a seat back or door of a vehicle, and a cross bar pivotally connected to depending portions of said arms and movable about a substantially horizontal axis relative thereto said cross bar normally lying in substantially the same vertical plane as the depending portions of the hooked arms.

1,696,129. METHOD OF MAKING AUXILIARY HEEL LININGS. MYER S. SILVER, Boston, Mass. Filed Oct. 16, 1926. Serial No. 142,008. 3 Claims. (Cl. 12—146.)

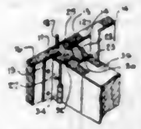


1. The method of making auxiliary heel linings which comprises forming a sheet of sponge rubber between two pieces of fabric to which the rubber is vulcanized, cutting from such sheet blanks of the desired shape, and then splitting each blank to form a lining having a face of sponge rubber and a fabric backing.

1,696,130. WINDOW CONSTRUCTION. LOUIS JOSEPH TURCOTTE, Montreal, Quebec, Canada. Filed Oct. 10, 1927. Serial No. 225,247. 1 Claim. (Cl. 20—50.)

A window structure comprising a window frame having sash grooves in opposite sides and metal strips secured to

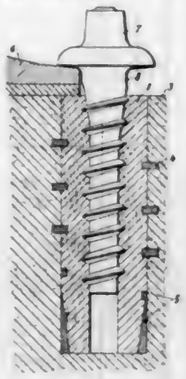
the frame partially closing in the grooves and forming guides, a sash having a vertical rabbet at one side, a wooden bracket forming a sash support and having metal facing strips forming vertical binding pieces running on said metal strips in the window frame and having a rabbet



registering with the vertical rabbet in said sash and completing a rabbet joint in the closed position and converging at the inner side to a neck, a runner forming a part of said wooden bracket and sliding in one of the window grooves and a hinged strip section having fasteners thereon locking the sash frame in the other of said window grooves.

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1,696,131. WOODEN PLUG FOR ANCHORING RAILS ON CONCRETE SUPPORTS. EDMOND FRANÇOIS LEOPOLD VAGNEUX, Paris, France. Filed Nov. 11, 1926, Serial No. 147,769, and in Great Britain Nov. 16, 1925. 4 Claims. (Cl. 238—370.)



1. A device for anchoring rails on concrete sleepers comprising a steel spiral bush the outer part of which is securely held throughout its length in the wall of a cylindrical smooth-walled recess in the concrete and the inner part of which projects inside the said recess, a smooth walled wooden plug forced into the nut-shaped recess formed by the concrete of the sleeper and the steel of the bush and a rail clamping part adapted to engage said plug.

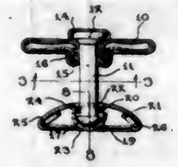
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1,696,132. MEASURING INSTRUMENT. WERNER WERMEILLE, St.-Aubin, Switzerland. Filed Sept. 12, 1927, Serial No. 219,049, and in Switzerland Nov. 10, 1926. 1 Claim. (Cl. 172—284.)



In a measuring instrument for liquids comprising a driving mechanism transmitting its motion by means of a magnetic coupling to the indicating mechanism, the combination of two cylindrical magnets, of which the cross-section comprises two annular segments of like radius connected together by an annular segment of smaller radius, said cylindrical magnets adapted to cooperate with two magnets of semi-annular cross-section separated from the said cylindrical magnets by a liquid tight diaphragm.

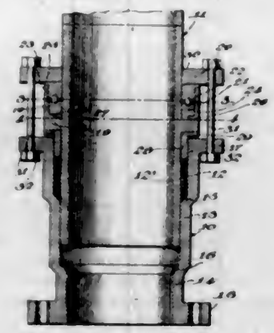
1,696,133. BUTTON. CHARLES E. YOUNG, Rochester, Minn. Filed Mar. 27, 1928. Serial No. 265,035. 1 Claim. (Cl. 24—108.)



A device of the kind described comprising a button, a stem connected at one end with the button, and a retainer detachable engaged with the remaining end of the stem, the stem having a tapered terminal and a shoulder just back of the same, and the retainer having a thimble in which the tapered terminal is received, and spring jaws engaging said shoulder, the spring jaws consisting of the free terminals of a spring carried by the retainer, and the thimble being slotted on diametrically opposite sides to provide clearance spaces for said jaws.

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1,696,134. PIPE COUPLING. HARRY D. ALGYRE, Holdenville, Okla. Filed May 6, 1927. Serial No. 189,830. 1 Claim. (Cl. 285—96.)



A pipe coupling comprising a nipple having sectional reduced portions toward one end, a pipe section adapted to be extended into the larger end of the nipple and to closely fit within the intermediate of said reduced portions thereof, a packing surrounding said pipe section and partially filling the larger of the said reduced portions, an annular flange about the pipe section, a bushing surrounding said pipe section and seated within the open end of the larger of said sectional reduced portions to confine said packing within the latter, an annular flange at the outer end of said bushing interposed between the outer end section of the nipple and said annular flange on said pipe section, an annular ball retaining raceway surrounding said pipe section and seated against the outer side of the annular flange on the latter, an annular collar surrounding said pipe section and seated against the outer side of said raceway, and means engageable with the larger end of said nipple and said collar for securing the parts together.

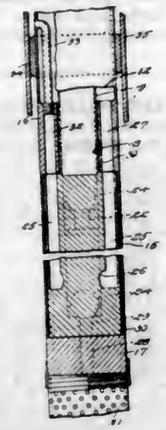
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1,696,135. OIL-WELL PUMP. DONALD D. BUACH, Earlsboro, Okla. Filed Feb. 2, 1928. Serial No. 251,307. 5 Claims. (Cl. 103—234.)

1. In a deep well pump and in combination, an assemblage adapted to be disposed in the fluid contained in the well comprising a barrel having heads at its opposite ends and having a port in each head, the upper head having an axial opening and a combined cylinder and control valve element rotatable within the barrel and having a neck extending through the opening of the upper head, said element having cylinder bores each having at its lower end a check-valved opening adapted to align with the port of



the lower head and at its upper end a check-valved outlet communicating with the neck and ports in said element opening through the upper end of the element and each



communicating at its lower end with one of the cylinders, said ports during rotation of the element alternately aligning with the port of the upper head.

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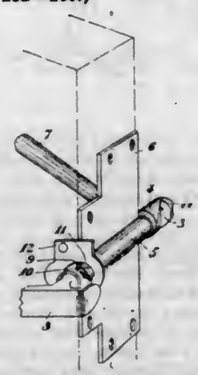
1,696,136. GOLF TEE. AZRO A. CONURN, Holyoke, Mass. Filed Apr. 12, 1928. Serial No. 269,561. 2 Claims. (Cl. 273—33.)



1. A golf tee having a transverse passage formed therethrough intermediate its top and bottom, a marker, and a cord doubled intermediate its length and having its doubled portion passed through the passage and formed with knots engaging the tee at opposite sides thereof, the free ends of the cord being secured to said marker and the doubled portion of the cord projecting from the opposite side of the tee from the marker forming a loop whereby the tee may be suspended from a support.

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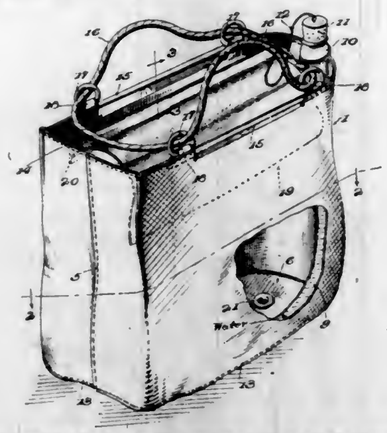
1,696,137. DOOR OR THE LIKE LATCHING DEVICE. VICTOR COLSON, Brussels, Belgium. Filed Nov. 14, 1925, Serial No. 69,106, and in Belgium Nov. 15, 1924. 2 Claims. (Cl. 292—169.)



1. Door latching devices comprising a keeper for attachment to a fixed supporting element and having an opening and a latch bolt to project into one side of said opening; a plate for attachment to the free edge of a door and having a bearing, a bolt operator mounted for rotation in said bearing and provided with means to prevent longitudinal movement of said bolt operator, said bolt operator having an end projecting from one side edge of said plate, arranged to enter the opening of said keeper and having a notch for engagement by the latch bolt of said keeper, and levers for turning said bolt and arranged substantially at the opposite ends thereof.

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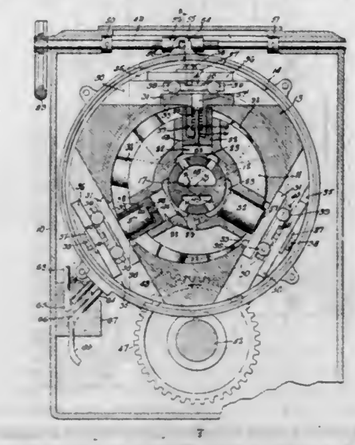
1,696,138. COMBINED WATER BAG AND FOOD COOLER. JOHN W. DAY and HAROLD K. DAY, Pocatello, Idaho. Filed Aug. 3, 1925. Serial No. 47,968. 3 Claims. (Cl. 150—48.)



1. A bag having a wall composed of a single length of fabric doubled upon itself and having the otherwise free ends connected at the place of doubling thereby to define a water space, a bottom, a seam connecting the bottom to the wall and closing the bottom of said space, a seam run along the top of the wall to completely close the water space, a spout appropriately incorporated in the wall at the top seam to permit filling the space with water, a flap connected to the wall at the inside providing a cover, and eyelets in the bottom providing for a circulation of air through the interior of the bag and out around the flap.

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1,696,139. PUMP OR MOTOR. WALTER FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 28, 1924. Serial No. 709,527. 17 Claims. (Cl. 103—161.)

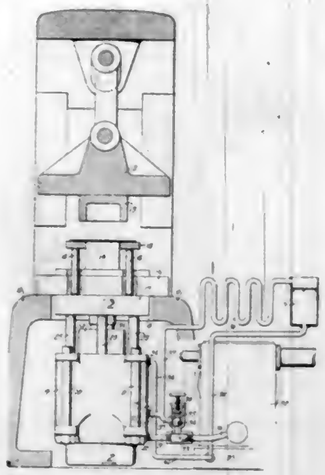


2. In a pump or motor the combination of a pintle, a cylinder barrel rotatable thereon and having an odd num-

ber of cylinders radially disposed and equally spaced about the axis of rotation thereof, said cylinders being arranged in groups disposed in planes offset along said axis, a piston reciprocable in each cylinder, and an impelling member cooperating with said pistons and cylinders to effect relative reciprocation therebetween.

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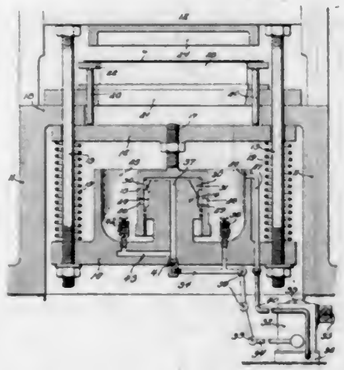
1,696,140. HYDRAULIC BLANK HOLDER. WALTER FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 12, 1926. Serial No. 115,487. 19 Claims. (Cl. 113—46.)



1. A hydraulic pressure pad for draw presses and the like comprising a pressure member, pressure sustaining means including a piston and cylinder, means permitting the escape of liquid from said cylinder, and means controlled by movement of said piston for throttling said escape means.

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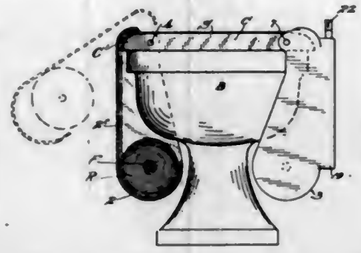
1,696,141. HYDRAULIC BLANK HOLDER. WALTER FERRIS, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Nov. 18, 1926. Serial No. 149,155. 10 Claims. (Cl. 113—46.)



1. In a draw press having cooperating dies a blank holder therefor comprising a blank holding and stripping member cooperating with one of the dies to grip the blank therebetween, a pressure sustaining member connected with the last mentioned die, hydraulic means for transmitting pressure between said members, means responsive to relative movement between the dies for controlling said pressure during the draw stroke, and means for effecting an increased pressure in said hydraulic means during the stripping operation.

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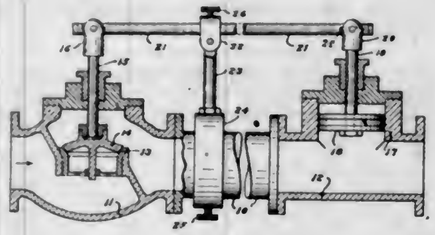
1,696,142. SANITARY TOILET SEAT. RAY O. HARPER and RALPH C. HITCHIN, Los Angeles, Calif. Filed Apr. 27, 1927. Serial No. 186,920. 5 Claims. (Cl. 4—247.)



1. The combination with a toilet seat, of a pair of vertical sheet chambers pivotally suspended from the opposite sides of the seat; said chambers being open at their inner sides and having roll pockets at the bottom swinging in under the toilet bowl; one swinging pocket having a winding means to draw the sheet over the seat from the other chamber and having a gear box lying along its outer side, and said winding means including a feed mechanism in said box and a hand lever therefor extending above the gear box and oscillating between the front and rear ends of the gear box.

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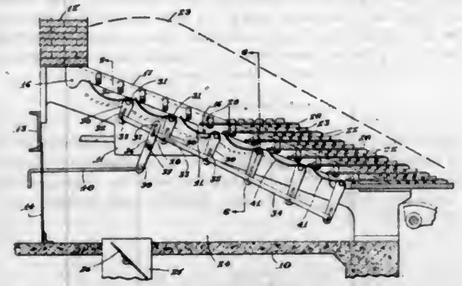
1,696,143. AUTOMATIC PRESSURE-REGULATOR VALVE. ALVA K. HINCHMAN, Gloucester City, N. J., assignor to J. H. Malone, Drexel Hill, Pa. Filed Sept. 18, 1922, Serial No. 588,946. Renewed May 11, 1928. 1 Claim. (Cl. 50—37.)



In an automatic pressure regulator valve, the combination with a steam line, of a plunger valve for controlling the passage of steam therethrough, a cylinder having communication with the steam line, a pressure operated piston movable in said cylinder, an upstanding stem on said plunger valve, an upstanding stem on said piston, a supporting yoke having a vertical standard thereon adjustably carried by said steam line for lateral movement from a point intermediate said valve and piston, means for holding the yoke in different position, a clevis bracket having a transverse opening in its upper end pivoted to the free end of said standard, a bar having slots adjacent its ends slidably and, extending through said opening, clevis brackets on said stems for slidably pivoting the stems to the slotted ends of the bar, and means carried by the first clevis bracket to retain such first bracket in adjusted relation to said bar.



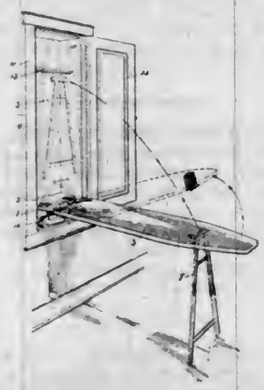
1,696,144. STOKER AIR CONTROL. OSCAR O. NYGAARD, Saugus, Mass., assignor to Combustion Engineering Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1925. Serial No. 47,265. 5 Claims. (Cl. 110—44.)



5. In an automatic stoker, a fuel trough, an air channel at each side thereof, frames mounted on the margins of said trough, tuyère forming blocks arranged in stacked relation mounted on said frames and capping said chambers, each of said blocks having a floor plate, dampers for closing said channels at will, and means located between adjacent floor plates for controlling the amount of air passing through the respective tuyères.

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1,696,145. IRONING BOARD. SAMUEL O. WAGONER, Pasadena, Calif., assignor, by direct and mesne assignments, of one-half to H. E. Robinson, Los Angeles, Calif., and one-half to Kyle Howard, Los Angeles, Calif. Filed July 30, 1924. Serial No. 729,176. 1 Claim. (Cl. 68—10.)



A cabinet ironing table and mounting therefor including a support, a flat attaching member hingedly connected to said support and adapted to be moved from a horizontal position to a vertical position, a pivot element carried by said flat attaching member, an ironing board, means at the end of said ironing board at the middle thereof and means at opposite sides thereof to receive said pivot element for adjustably attaching said ironing board to said flat attaching member, whereby said board can be attached to said pivot element at a corner thereof with its side parallel with the axis of said hinged attaching member.

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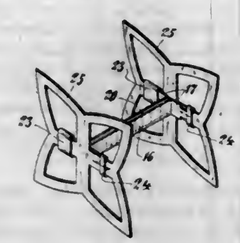
1,696,146. THERMOSTATICALLY-CONTROLLED HEATING PLUG. ERNST G. K. ANDERSON, Evanston, Ill., assignor to Appleton Electric Company, a Corporation of Illinois. Filed Apr. 14, 1927. Serial No. 183,826. 1 Claim. (Cl. 219—40.)

A heating stopper for a liquid container comprising a stopper body of insulating material, a tubular terminal projecting downwardly from said body, the material of the body being continued down around said terminal and underneath the free edge of the latter, a second terminal extending downwardly from said body at the center of the tubular terminal and having its lower end lying at a considerable distance above the lower end of the tubular terminal.



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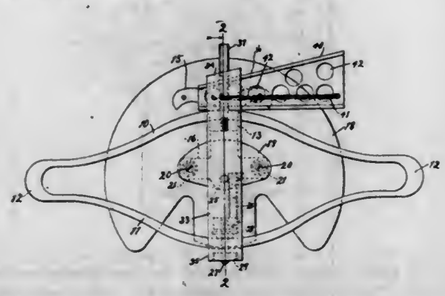
1,696,147. DISPENSING-TUBE BASE. BERTRAM F. BAKER, Tannersville, N. Y. Filed Jan. 19, 1927. Serial No. 161,995. 9 Claims. (Cl. 221—60.)



3. A base for collapsible tubes comprisnig a channel cross bar and means co-operating with the cross bar to hold the tube held thereby in erect position, the means cooperating with the cross bar being a pair of end pieces separable from the cross bar, the end pieces each having a plurality of symmetrical sides constituting selective supports.

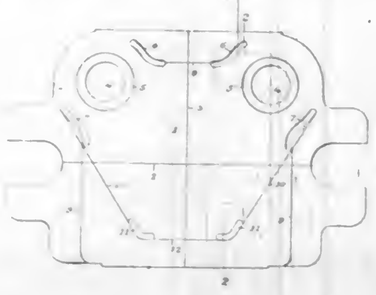
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1,696,148. DYNAMOMETER. PERCY B. CAMP, Maywood, Ill., assignor to Universal Draft Gear Attachment Co., a Corporation of Illinois. Filed May 21, 1925. Serial No. 31,765. 5 Claims. (Cl. 265—19.)



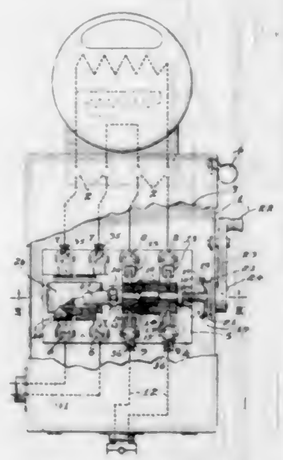
1. In a dynamometer, the combination of a spring including two elements adapted to move relatively under the force to be measured, means indicating such movement in suitable units and an adjustable safety connection between the elements of the spring including a device moving as they move to take up the space represented by their movement and thereby provent sudden recovery of the spring.

1,696,149. DRAWING TEMPLATE FOR DIE SETS. PHILO H. DANLY, Chicago, Ill., assignor to Danly Machine Specialties, Inc., Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1927. Serial No. 168,054. 5 Claims. (Cl. 33—174.)



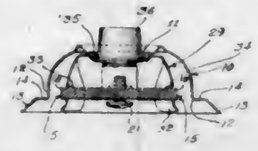
1. A template for use in making drawings of punch and die mountings, the same comprising a plate of transparent material having a border outline corresponding with the border outline of a standard die shoe, the plate being formed with orifices indicative of the position of the leader pins of said shoe, with a transverse guide line midway between said orifices, and with a longitudinal guide line in spaced relation to said orifices, said lines affording means for positioning the template on a drawing of a punch and die previous to the production on said drawing of the outlines of a suitable size of a die set and its orifices indicating the leader pins of said die set.

1,696,150. ELECTRIC SERVICE INSTALLATION. JOSEPH SACHS, Hartford, Conn. Filed July 28, 1922. Serial No. 578,125. 9 Claims. (Cl. 247—2.)



1. In a theft-proof electric meter service installation connectible between service and load wires, the combination of an enclosing cabinet having an openable cover adapted to be sealed in closed position, the said cabinet being provided with means for the protective association therewith of the terminal portion of an electric meter, circuit controlling means in the cabinet connectible in series with a meter protectively associated as aforesaid and including a movable circuit opening-and-closing member normally in circuit closing position, an automatic current responsive device in the cabinet connectible in series with the said controlling means and with the meter, means serving upon the passage of excessive current through the said current responsive device to move the said movable member to its circuit opening position, a handle outside of the cabinet accessible at all times for manual operation by the customer, and means enabling the handle to move the said movable member in the circuit closing direction, the last said means being inoperative to prevent movement of the said member in the circuit opening direction by the current responsive device.

1,696,151. PUSH-BUTTON-SWITCH CONSTRUCTION. FELIX STAEDELI, New York, N. Y., assignor to Francis Kell & Son, Inc., a Corporation of New York. Filed Oct. 10, 1925. Serial No. 61,627. 12 Claims. (Cl. 200—159.)

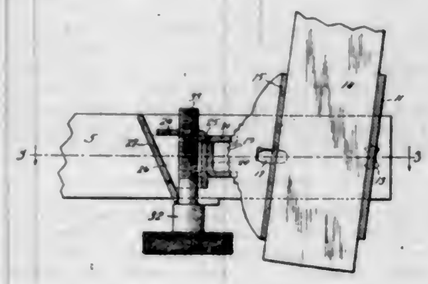


1. In a device of the character described, in combination, a casing having means adapted to permit it to be secured to a wall and provided with an opening in the upper part thereof, a push button in said opening, an insulating member carrying connecting mechanism adapted to be actuated by said push button and having a pair of oppositely disposed end portions of substantially rectangular cross-section, and means within said casing and arranged in depending relation with respect thereto for holding said member within said casing, said means including a pair of oppositely disposed members, each provided with a substantially rectangularly shaped opening to receive an end portion of said insulating member and each made of spring material and yieldably urged one toward the other.

1,696,152. LUBRICATING MIXTURE. ARTHUR W. SWANBERG, Youngstown, Ohio, assignor of one-half to B. P. Higby, Youngstown, Ohio. Filed Aug. 16, 1926. Serial No. 129,661. 2 Claims. (Cl. 252—5.)

1. A viscous mixture for shock absorbers of the fluid type or similar devices, said mixture comprising a viscous stable suspension of castor oil, and finely divided plaster of Paris in amount approximating twenty-five percent by weight of the castor oil.

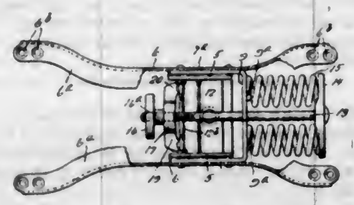
1,696,153. CHAIR. EDWARD D. BUMP, Lakewood, Ohio, assignor to The Bettcher Stamping & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 16, 1924. Serial No. 732,444. 13 Claims. (Cl. 155—157.)



1. In a chair, the combination, with opposite rearwardly-disposed arms, of a back post interposed between and vertically adjustable with respect to said arms, and means for securing the said post in adjusted position between said arms, the said means comprising a member adapted to engage the rear of said post and mounted to rock between said arms, a cooperating member pivotally supported by and between the said arms and adapted to engage the front of said post, and means for forcing one of the said members toward and from the other, thereby to secure the said post in adjusted position.

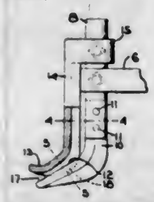


1,696,154. CHAIR-SEAT MOUNTING. SPENCER M. BUMP, Lakewood, Ohio, assignor to The Bettcher Stamping & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 15, 1926. Serial No. 141,732. 3 Claims. (Cl. 155—77.)



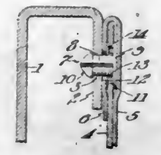
1. A rocking connecting member for use with one or more springs arranged to resist the backward movement of swivel chairs and with a bolt having a cross plate engaging such spring or springs and extending forwardly and beyond a cross member carried by the seat assembly, the said connecting member being formed from a single piece of metal having a forwardly projecting dome-shaped central portion provided with an aperture therethrough, the portion of such dome surrounding the said aperture, constituting an arch-supported thrust surface for engagement by an adjustable member on the front of said bolt, said connecting member having integral extensions adapted to bear against said cross member.

1,696,155. CLOTH-CUTTING ATTACHMENT FOR LOOMS. HARRY A. DAVIS, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 8, 1927. Serial No. 181,995. 1 Claim. (Cl. 164—38.)



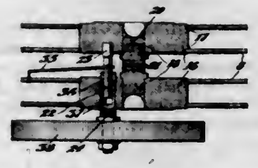
An attachment for looms for cutting the cloth longitudinally as it is woven comprising a knife blade adapted to be rigidly secured on a loom frame, having a forward and upward inclined cutting upper edge, the said knife blade standing vertical and parallel with the warps and with the cutting edge crossing, and at its rear end extending below, the plane of the cloth, and a guard presser foot rigidly secured upon the loom frame and extending rearward above, and up to the rear end of, the cutting edge of the knife blade, thus to protect the operative from any accidental engagement with the cutting edge, the rear end of said guard foot flaring upward to form with the knife blade beneath an open, forward converging mouth for guiding the cloth onto the cutting edge, the said guard foot having a depending rigid wing at each side of and spaced from the knife blade forwardly of said mouth, which wings act, as the cloth moves forward, to press the cloth down and thus stretch it taut as it rides against the cutting edge to insure the cloth being cut.

1,696,156. FLOATING-TRIM STUD. PAUL E. FENTON, Thomaston, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Nov. 14, 1927. Serial No. 233,194. 5 Claims. (Cl. 24—213.)



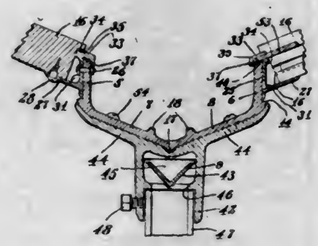
1. A floating trim stud, comprising a stud member having a base flange, a resilient shank and head rising therefrom, the head having a greater diameter than the diameter of the shank, and a spring washer adapted to be forced over the head and into resilient engagement with the shank while the shank is under compression and to hold the stud in floating position.

1,696,157. SPARK GAP. EDWIN S. FLARSHEIM, Cincinnati, Ohio, assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Jan. 18, 1927. Serial No. 161,931. 9 Claims. (Cl. 250—38.)



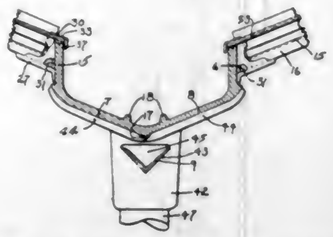
1. A spark gap comprising two electrodes, and an adjustable spacing member determining and controlling the gap between said electrodes, said spacing member exposed to the heat generated by the spark and adapted to expand and compensate for the electrode expansion thereby maintaining the gap relatively fixed over a wide temperature range.

1,696,158. COMBINATION GUTTER SUPPORT FOR GREENHOUSES. STEPHEN H. HART, Irvington, N. Y., assignor to Lord & Burnham Company, Irvington, N. Y., a Corporation of New York. Original application filed Apr. 5, 1926, Serial No. 99,688. Divided and this application filed July 27, 1928. Serial No. 295,797. 2 Claims. (Cl. 189—4.)



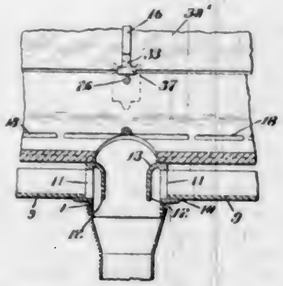
1. A bracket adapted to support a main gutter having a concentrating bead on the under side thereof and a drip gutter, said bracket comprising a casing forming a hollow body portion, and a seat for the gutter above the hollow body said seat having a recess therein spaced from the concentrating bead when the gutter is supported in the seat of the bracket whereby a passage is formed through the bracket for water concentrated on the bead on the gutter bottom, and a seat formed on opposite sides of the hollow casing for supporting the drip gutter below the main gutter.

1,696,159. COMBINATION OUTLET AND GUTTER CONSTRUCTION FOR GREENHOUSES. STEPHEN H. HART, Irvington, N. Y., assignor to Lord & Burnham Company, Irvington, N. Y., a Corporation of New York. Filed Apr. 5, 1926. Serial No. 99,688. 6 Claims. (Cl. 108—25.)



1. A gutter comprising upstanding side portions, a V-shaped bottom and a means comprising a dispersing ridge portion on the outer sides of the gutter near the bottom of the side portions, said dispersing ridges serving to spread and break up the larger bodies of the water of condensation flowing downwardly on the outer surface of the upright sides over the dispersing ridges to the under side of the gutter bottom.

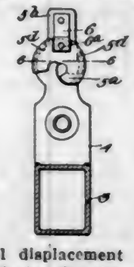
1,696,160. GREENHOUSE COMBINATION OUTLET. STEPHEN H. HART, Irvington, N. Y., assignor to Lord & Burnham Company, Irvington, N. Y., a Corporation of New York. Original application filed Apr. 5, 1926, Serial No. 99,688. Divided and this application filed July 27, 1928. Serial No. 295,796. 6 Claims. (Cl. 189—4.)



1. In the combination of main gutter and a supplemental gutter, a combination outlet adapted to carry off the water from both the main and supplemental gutters, said outlet forming a downspout and providing an unobstructed path from the main gutter to a point below the supplemental gutter, said downspout including walls forming an unobstructed central passage open at the top and in direct communication with the main gutter, and an outer chamber formed between the outer wall of the downspout and an inner wall forming the central passage for the outlet from the main gutter, said outer wall having an aperture communicating with said outer chamber through which the water from the supplemental gutter is discharged.

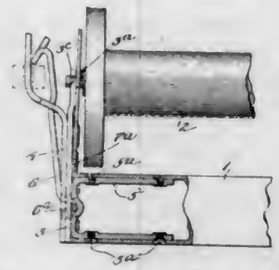
1,696,161. SPOOL-SUPPORTING MEANS FOR TUBE FRAMES. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 5, 1923. Serial No. 678,660. 2 Claims. (Cl. 308—24.)

1. Spool supporting means for a tube frame embracing in combination a spool bearing bracket provided with an open slot bearing recess for a spool journal, a partially rotatable keeper provided with peripheral means affording permanent interlocking exterior bearing engagement with the circular peripheral edge of the upper end of the bearing bracket whereby the keeper is retained by the bracket so as to permit rotative movement thereon and a detent mounted on the keeper and arranged to form yielding interlocking engagement with a cooperating recess of the bracket



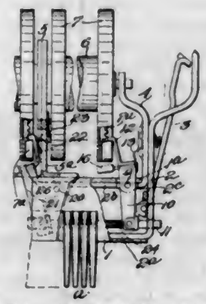
to prevent accidental displacement of the keeper, said detent being releasable by the circumferential thrust of the keeper when the operator rotates the keeper to open position.

1,696,162. TUBE FRAME. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 24, 1925. Serial No. 11,047. 2 Claims. (Cl. 308—24.)



1. A spool bearing bracket for a tuft tube frame embracing an arm adapted to be secured to a tube frame, a latch fulcrumed to swing transversely of the tube frame in close proximity to one face of said arm, said latch having its outer portion cut out to form a hook-like portion arranged to overhang a spool-journal, the corresponding portion of said arm being provided with an open bearing recess bounded by opposed jaws, the nearer jaw being offset to intersect the plane of movement of said latch and to interlockingly engage the hook-forming recess of the latch to positively retain the latch in journal overhanging position, substantially as described.

1,696,163. AXMINSTER TUBE FRAME. EDGAR F. HATHAWAY, Wellesley, Mass., assignor to Shawmut Engineering Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1927. Serial No. 180,151. 8 Claims. (Cl. 139—10.)



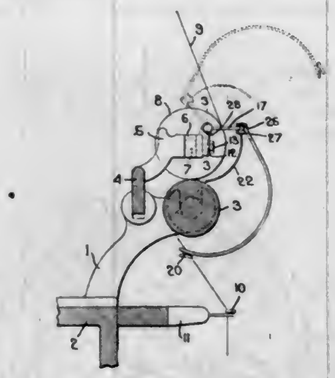
1. In an Axminster tube-frame embracing spool-bearing brackets and chain-engaging suspension members, the combination with a rotatable yarn-spool, a spool-locking dog releasably held in spool-locking engagement therewith to prevent spool rotation while the tube-frame is traveling with the supporting carrier chains, and coordinated means for releasing the suspension members from the chain and for releasing the dog from locking engagement with the spool to permit rotation of the spool for the delivery of yarn after the tube-frame is withdrawn from its carrier chains.



1,696,164. USE OF SULPHOXYLATES FOR STRIPPING DYES. CHARLES S. HOLLANDER, Philadelphia, Pa., assignor to Rohm & Haas Company, a Corporation of Delaware. Filed Feb. 5, 1927. Serial No. 166,272. 4 Claims. (Cl. 8—2.)

1. The process of stripping dyes from fibres which comprises the step of soaking such fibres in a heated bath comprising dissolved substances in equilibrium, such substances comprising sodium sulphoxylate formaldehyde and a soluble zinc salt on the one hand and soluble zinc sulphoxylate formaldehyde and a soluble sodium salt on the other hand.

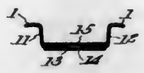
1,696,165. STOP MOTION FOR TWISTERS. RICHARD A. KEARSLEY, Milford, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 22, 1928. Serial No. 263,877. 6 claims. (Cl. 117—30.)



1. In a stop motion for twisters having top and bottom rolls and stands therefor, a guide pivotally mounted upon the top roll stand and normally supported at its lower end by the running yarn and having an intermediate open loop presenting narrowly spaced legs extending in parallelism with the axes of the rolls and an all sheet metal tongue formed at its upper end to present oppositely disposed parallel grooves to engage slidably and loosely the legs of the loop and be detachably retained thereby and presenting a free lower end adapted to enter between the rolls upon failure of the yarn to support the guide.
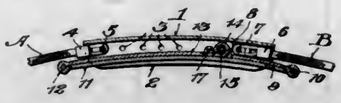
5. In a stop motion for twisters having top and bottom rolls and stands therefor, a guide pivotally mounted upon the top roll stand and normally supported at its lower end by the running yarn, a tongue loosely pivoted at its upper end in parallelism with the axes of the rolls on the guide and presenting a free lower end adapted to enter between said rolls upon failure of the yarn to support said guide and means for yieldingly locking the guide in an elevated inoperative position.

1,696,166. SLIDE BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed Oct. 31, 1927. Serial No. 230,020. 3 Claims. (Cl. 24—194.)



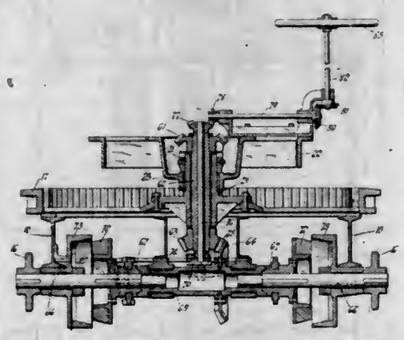
1. A slide buckle, having a frame, and a cross-bar formed of separate parts depressed from the sides of the frame to any desired depth greater than is possible in drawing an integral bar, and a transverse sleeve connecting said separate parts.

1,696,167. WATCH-BRACELET CLASP. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Co., North Attleboro, Mass. Filed Dec. 8, 1927. Serial No. 238,544. 7 Claims. (Cl. 24—71.)



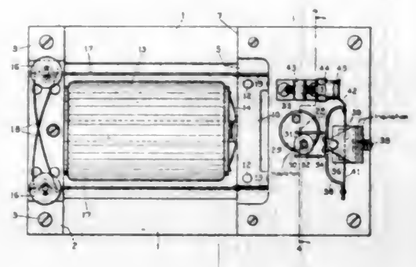
2. In a wrist watch bracelet clasp, a front member, means to connect one end of a bracelet to the front member, a back member, connecting means for said back member movably secured to said front member and to said back member so as to be foldable to lie between said members, means connecting the opposite end of the bracelet to the back member and also foldable to lie between said members, and means to latch the back member against movement.

1,696,168. TRACTOR STEERING CONTROL FOR REVOLVING EXCAVATORS OR CRANES. LEO A. KRUPP, Akron, Ohio, assignor to The Star Drilling Machine Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 22, 1925. Serial No. 64,075. 7 Claims. (Cl. 180—9.2.)



7. Apparatus of the class described, comprising a carriage, including a frame, wheeels, one on each side thereof for driving and steering the carriage, a deck revoluble on the carriage, a prime mover on the deck, a power shaft in the axis of the deck and adapted to be driven by the prime mover, a two part wheel driving shaft on the frame, meshed gears respectively on the power shaft and the wheel driving shaft, clutches on the wheel driving shaft respectively for each wheel and adapted to be connected to the gear on the wheel driving shaft, and means for controlling the clutches comprising a shaft extending through the axis of the deck having a pinion on its lower end, a rack plate on the carriage movable substantially parallel and close to the wheel shaft gear and meshed with said pinion, and means connecting the rack to the clutches.

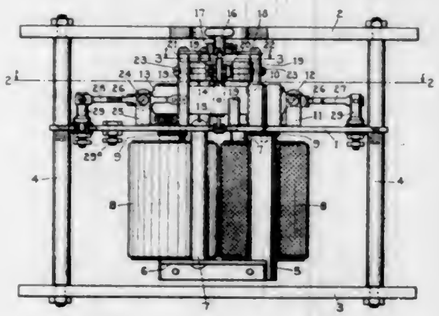
1,696,169. TRAIN-CONTROL RELAY. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Nov. 3, 1921. Serial No. 512,559. 19 Claims. (Cl. 200—103.)



1. A relay comprising a core, armatures balanced against each other and mechanically connected to move together, and mechanisms including pivotally mounted elements driven by said armatures and also balanced against each other, whereby the operation of the relay is unaffected by rectilinear or curvilinear vibratory disturbances.

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1,696,170. ENGINE RELAY. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Jan. 6, 1922. Serial No. 527,508. 20 Claims. (Cl. 200—87.)

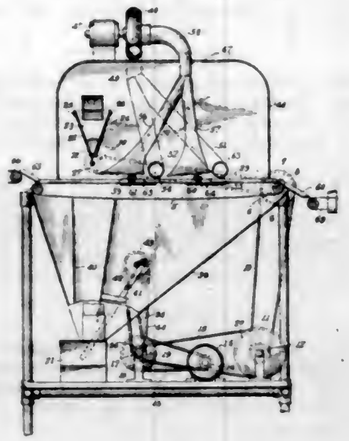


1. A relay comprising, a U-shaped core having pole pieces, a coil on said core, an armature pivoted at its middle between said pole pieces, adjustable stops on both sides of said armature to engage the armature directly and to adjust the pick-up and drop-away characteristics of the relay, and means operated by said armature including spring contact fingers for closing a circuit when said relay is energized, said spring contact fingers being disposed with respect to said armature so that said circuit is not opened in spite of slight vibration of said armature.

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1,696,171. AUTOMATIC POWDERING MACHINE. SAMUEL LIPSIUS, New York, N. Y. Filed Aug. 6, 1926. Serial No. 127,506. 28 Claims. (Cl. 91—59.)

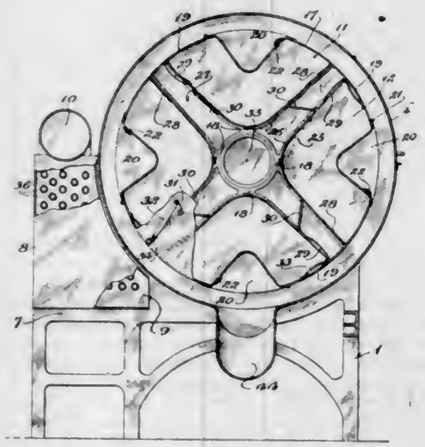
28. In a powdering machine, a foraminous travelling conveyer belt, a hopper having an outlet above the belt for depositing a thin layer of powder as sheets are carried under it by the conveyer, a blower having an outlet arranged close to the upper run of the conveyer for removing excess powder from the sheets, a suction pipe having an inlet immediately adjacent the blower outlet and



close to the conveyer, a hood surrounding the outlet of the hopper, the outlet of the blower and the inlet to the suction pipe, means for collecting the unused powder and means for returning the collected powder to the hopper.

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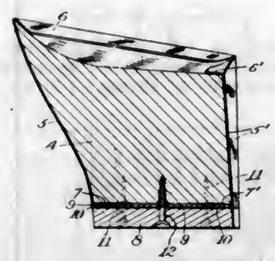
1,696,172. DRIER. CHARLES FRANCIS MORRISON, Chattanooga, Tenn., assignor to Morrison-Mertins, Inc., a Corporation of Tennessee. Filed Nov. 2, 1927. Serial No. 230,598. 16 Claims. (Cl. 34—5.)



1. A drier comprising a housing having air inlet and outlet means, a rotary tumbler mounted therein having a plurality of individual compartments arranged within the same and equi-spaced with respect to each other, the arrangement of said compartments within said tumbler constituting a central and branch air conducting ways therebetween, said branch conducting means communicating with the compartments and adjustable valve means cooperable with said conducting means and compartments for selectively establishing a circular coursing of air through the compartments individually or in series.



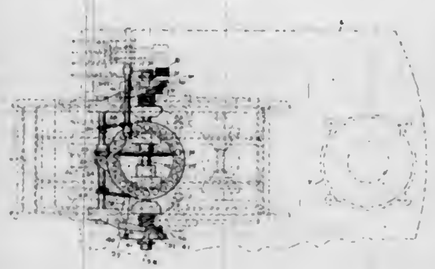
1,696,173. COMPOSITE ELASTIC TOP LIFT FOR SHOE HEELS. MAUDE RUDMAN, Indianapolis, Ind., assignor to Mark Rudman, Indianapolis, Ind. Filed Aug. 16, 1926. Serial No. 129,451. 3 Claims. (Cl. 36—35.)



1. A composite elastic top lift for shoe heels comprising an elastic main part, a film of rupturable adhesive substance separably attached to the back of the main part, and a relatively hard non-stretching backing part separably attached to the film of adhesive substance.

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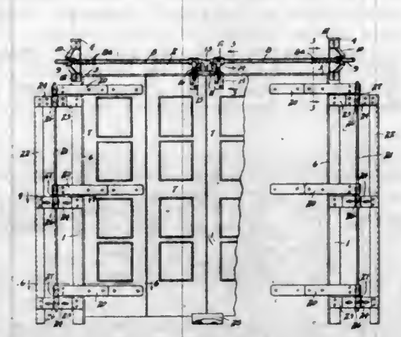
1,696,174. PORTABLE CRANE. LAYTON S. SHAFFER, Ravenna, Ohio, assignor to The Byers Machine Company, Ravenna, Ohio, a Corporation of Ohio. Filed July 31, 1922. Serial No. 578,645. 2 Claims. (Cl. 180—9.2.)



1. In a machine of the character described, a combination of a frame, traction devices, supporting the same, a turntable pivotally mounted on said frame, separate means for driving each of said traction devices, a power shaft having normally engaged connections with each said driving means, a gear mounted adjacent said turntable about its pivotal axis, said gear having a series of circularly arranged holes formed therein, a manually operated pin carried by said turntable adapted to be received in one of said holes to connect said gear to the turntable, and connections between said gear and said normally engaged connections adapted to selectively disconnect the latter upon rotation of the gear.

2. In a machine of the character described, the combination of a frame, traction devices supporting the same, a turntable pivotally mounted on said frame, separate means for driving each of said traction devices, means operable by said turntable adapted to disconnect one of said driving means from the device normally driven thereby irrespective of the position of said turntable, and means including a pivoted bell-crank having one arm thereof outwardly connected to said disconnecting means, and the other arm thereof actuated by said disconnecting means and adapted to lock the disconnected traction device against movement simultaneously with such disconnecting means.

1,696,175. DOOR-MOUNTING STRUCTURE. DAVID W. CAMPBELL, Minneapolis, Minn. Filed May 20, 1925. Serial No. 31,557. 18 Claims. (Cl. 189—46.)



1. A door mounting comprising spaced vertical members, a connecting top brace member, hinge pintles spaced outwardly of said vertical members and secured thereto to which the doors are hinged, means rigid with said frame for receiving said pintles and locating the same, and means adapted to be secured in a plurality of positions receiving said pintles for plumbing the same.

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1,696,176. DOOR-OPERATING MECHANISM. DAVID W. CAMPBELL Minneapolis, Minn. Filed Sept. 23, 1925. Serial No. 58,046. 28 Claims. (Cl. 268—63.)

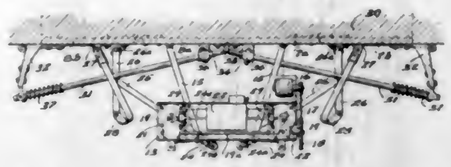
1. A door operating mechanism for a pair of swinging doors having in combination, a rotatable shaft for each door at the side of the door which it opens and rotating on an axis substantially parallel to the free edge of said door, a motor for driving both shafts through a belt, a reduction gearing, an arm on said shaft rotatable therewith, a link mechanism connecting each arm to its respective door, a switch for controlling said motor to stop the same, and an operating member for said switch actuated from both of said shafts.

5. A door operating mechanism for double doors comprising an arm for each door mounted for turning movement, said arms being movable in opposite directions about axes extending substantially parallel to the free edges of said doors toward which the doors open, articulated means connecting each arm to its respective door, a motor for driving said arms, a switch movable to position to start said motor, a cam movable with each of said arms, and a member engageable by both of said cams for moving said switch to position to stop said motor when said doors are in wide open and closed positions, respectively.

11. A door operating mechanism for opening and closing a folding door having in combination, a member pivoted about a fixed axis and adjacent the hinged edge of said door and closely adjacent the plane of said door when the door is closed, a driven arm turnable in a plane substantially at right angles to said axis and toward which the door opens, a track extending above said door toward its hinged end, means carried by said door adjacent the free edge thereof and movable on said track, a link connected to the end of said first mentioned member and to said door between the hinge thereof and said last mentioned means, and a link connecting said arm to an intermediate point on said last mentioned link, whereby when said arm is driven, said door is folded and opened.

18. A door operating mechanism for a hinged door having in combination, a driven shaft turnable about an axis toward which the door opens, an arm carried by said shaft and movable in a plane substantially at right angles to said axis, a member swinging about a fixed axis disposed between the free edge of the door and the hinged edge thereof when the door is closed, a member pivotally connected to said door between the free edge and hinged

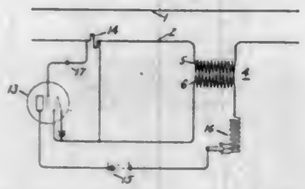
edge thereof and pivotally connected to said last mentioned member, a link connected to said first mentioned member at an intermediate point therein and pivotally connected to said arm, a motor, a driving mechanism between said motor and said shaft, means for reversing said motor whereby said shaft is rotated through a certain angle to open said door and then rotated reversely to close said door, said shaft and arm being capable of rotation through 360° upon failure of any part of the control mechanism to stop the motor.



23. A door operating mechanism for a hinged door having in combination, a driven shaft turnable about an axis extending substantially parallel to the axis about which the door swings, an arm carried by said shaft and movable in a plane substantially at right angles to said axis, an arm pivotally connected about a fixed axis at one end, said last named axis being disposed adjacent the plane of the door when the door is in closed position, a link connected to the other end of said last named arm and pivotally connected to the door, said link extending substantially at right angles to said door when said door is in closed position, and a second link pivotally connected at one end to said first named link intermediate the ends thereof and connected at its other end to said first named arm.

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1,696,177. SYSTEM OF DISTRIBUTION. EARL R. EVANS, Great Barrington, Mass. Filed Mar. 11, 1921. Serial No. 451,637. 27 Claims. (Cl. 171—242.)



1. A system of alternating current distribution comprising a source of alternating current, a line connected to said source, and reactive means in said line for instantaneously varying the reactance of said line from substantially zero to a relatively large value when an abnormal current flows therein.

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Patents Nos. 1,696,178 to 1,696,896.

# THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 377—No. 4. TUESDAY, DECEMBER 25, 1928. Price—$10 per year.

The OFFICIAL GAZETTE is mailed under the direction of the Superintendent of Documents, Government Printing Office, to whom all subscriptions should be made payable and all communications respecting the Gazette should be addressed. Issued weekly. Subscription, $10.00 per annum; including annual indexes, $11.50; single numbers, 25 cents each.

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| Patents | 719—No. | 1,696,178 to No. | 1,696,896, inclusive. |
| Total | 1,007 | | |

## Adverse Decisions in Interference.

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Reissue Pat. 16,589, A. K. Schaap, jr., Liquid-level gauge, decided October 31, 1928, claims 1 and 2.

Pat. 1,460,075, C. S. Oldroyd, Mining and quarrying machine, decided December 3, 1928, claim 8.

Pat. 1,460,076, C. S. Oldroyd, Mining and quarrying machine, decided December 3, 1928, claims 46, 47, 53, 54, 57, 59 to 63, inclusive.

Pat. 1,460,077, C. S. Oldroyd, Mining machine, decided December 3, 1928, claims 31, 34, 36, and 38.

Pat. 1,543,423, F. Coune, Hair-drying apparatus, decided November 12, 1928, claim 3.

Pat. 1,588,042, M. Morrell, Yarn winding, decided November 12, 1928, claims 9, 10, and 15.

## Adjudicated Patents.

(C. C. A. Pa.) Winters and Crampton patent, No. 1,385,102, for combination of door casing, keeper, and latch lever, *Held* not infringed, if valid. *Winters* v. *Dent Hardware Co.*, 28 F. (2d) 583.

(D. C. Minn.) Caesar patent, No. 1,668,490, for improvements in heating apparatus for automobiles, preliminary injunction granted. *Tropic-Aire, Inc.*, v. *Jumper*, 28 F. (2d) 631.

## Interference Notice.

U. S. PATENT OFFICE, *Washington, Dec. 6, 1928.*

*Standard Portland Cement Company, its assigns or legal representatives, take notice:*

An interference having been declared by this Office between the application of Missouri Portland Cement Company, of 1010 Pine Street, St. Louis, Mo., for registration of trade-mark and trade-mark registered October 20, 1914, No. 100,442, to Standard Portland Cement Company, of Charleston, S. C., and a notice of such declaration sent by registered mail to said Standard Portland Cement Company at the said address having been returned by the post office as undeliverable, and it being alleged that the Standard Portland Cement Company has been dissolved, notice is hereby given that unless said Standard Portland Cement Company, its assigns, or legal representatives shall enter an appearance therein within 30 days from the first publication of this order the interference will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Notice of Cancellation.

U. S. PATENT OFFICE, *Washington, Dec. 1, 1928.*

*Apex Steel Corporation, its assigns or legal representatives, take notice:*

A cancellation proceeding having been instituted by this Office upon the application of The Apex Electrical Manufacturing Company, of Cleveland, Ohio, to effect the cancellation of the trade-mark registration of Apex Steel Corporation, of 50 Church Street, New York, N. Y., No. 126,985, dated October 21, 1919, and the notice of such proceeding sent by registered mail to the said Apex Steel Corporation at the said address having been returned by the post office as undeliverable, notice is hereby given that unless said Apex Steel Corporation, its assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

WM. A. KINNAN,
*First Assistant Commissioner.*

## Condition of Applications Under Examination at Close of Business December 14, 1928.

| Room No. | (Total number of applications awaiting action, excluding Trade-Mark Division, 109,129; Trade-Mark Division, 1,914. Oldest new case, Feb. 11, 1928; oldest amended, Feb. 14, 1928. The dates given are 1928.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS. | Oldest new application and oldest action by applicant awaiting office action. New. | Amended. | No. of applications awaiting action. |
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| 112 | 1. LOEFFLER, F. A., Closure Operators; Fences; Gates; Tillage; Scattering Unloaders; Handling and Hoist Line Implements. | Mar. 23 | Apr. 9 | 1,523 |
| 126 | 2. HADEN, C. F., Bee Culture; Dairy; Preserving; Presses; Tobacco | Apr. 4 | Apr. 5 | 1,617 |
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| 106 | 7. JARBOE, C. G., Optics; Photography | Mar. 2 | Mar. 5 | 1,951 |
| 133 | 8. HENRY, C. C., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets | Apr. 4 | June 7 | 1,473 |
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| 307 | 17. RAFTER, G. S., Label Pasting and Paper Hanging; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting. | Mar. 24 | Apr. 2 | 1,376 |
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| 224* | 37. WEAVER, M. E., Electricity, Circuit Makers and Breakers | Mar. 2 | Mar. 3 | 2,364 |
| 145 | 38. KRAFFT, C. F., Animal Husbandry; Earth Boring; Hydraulic and Earth Engineering; Mining, Quarrying, and Ice Harvesting; Stoneworking; Wells. | Apr. 9 | Apr. 16 | 1,904 |
| 220 | 39. COWLES, A. W., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution | Mar. 12 | Mar. 10 | 1,930 |
| 262* | 40. OBERLIN, J. J., Bottles and Jars; Receptacles | Mar. 12 | May 3 | 2,717 |
| 125 | 41. BROWN, J. I., Land Vehicles, Wheels, and Axles; Resilient Tires and Wheels; Wheel Substitutes; Railway Draft Appliances. | Mar. 8 | Mar. 21 | 1,372 |
| 223* | 42. CUTTING, H. O., Electric Signaling | Mar. 15 | Apr. 6 | 1,531 |
| 128* | 43. HOPKINS, F. M., Baths, Closets, Sinks, and Spittoons; Sewerage; Electricity, Medical and Surgical; Medicines; Surgery; Dentistry; Artificial Body Members. | Mar. 1 | Apr. 2 | 2,321 |
| 253 | 44. SHAFFER, C. H., Dispensing; Filling and Closing Portable Receptacles; Refrigeration | Mar. 31 | Apr. 5 | 1,933 |
| 379 | 45. GILES, A. H., Pulleys and Shafting; Lubrication; Bearings and Guides; Spring Devices | Mar. 5 | Feb. 29 | 2,493 |
| 233 | 46. WOLCOTT, C. L., Concentrating Evaporators; Fluid Sprinkling, Spraying, and Diffusing; Fire Extinguishers; Liquid Heaters and Vaporizers. | Mar. 5 | Mar. 15 | 1,780 |
| 264 | 47. BARKER, H., Clutches and Power Stops; Brakes and Motors | Mar. 21 | Mar. 28 | 1,967 |
| 212* | 48. ROEPKE, O. B., Electricity, General Applications | Mar. 21 | Mar. 19 | 1,508 |
| 239 | 49. EDINBURG, F. P., Check-Controlled Apparatus; Domestic Cooking Vessels; Ventilation; Driers; Liquid Separation or Purification. | Apr. 23 | May 5 | 1,391 |
| 322 | 50. BLAKE, C. L., Plastic and Liquid Coating Compositions; Coating | Apr. 2 | Apr. 2 | 2,531 |
| 240* | 51. BACKUS, C. D., Radiant Energy, Wave Transmission | Mar. 10 | Mar. 6 | 2,206 |
| 144 | 52. MORGAN, E. T., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings. | Apr. 16 | Apr. 17 | 2,250 |
| 201* | 53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery, Educational Appliances; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens. | June 8 | June 1 | 1,759 |
| 241 | 54. LANE, C. H., Electric Lamps; Conductors; Vapor Electric Devices; Space Discharge Tubes | Mar. 7 | Mar. 19 | 2,278 |
| 102 | 55. BOWEN, S. T.— (Bread, Pastry, and Confection Making; Cutlery | Apr. 2 | Apr. 2 | 738 |
| | (Designs | Nov. 14 | Nov. 30 | 462 |
| 309 | 56. PORTER, F. J., Electrochemistry; Laminated Fabrics; Paper Making; Substance Preparation | Feb. 15 | Feb. 18 | 2,390 |
| 257* | 57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks. | Mar. 3 | Feb. 25 | 1,104 |
| 270* | 58. DOWELL, E. F., Abrading; Typewriting | Feb 27 | Feb. 25 | 1,359 |
| 315 | 59. RICHARD, V. L., Chemistry; Alcohol; Fertilizers; Oils, Fats, and Glue; Cement and Lime; Hides, Skins and Leather; Fuel. | Feb. 15 | Feb. 15 | 2,844 |
| 213* | 60. GLASS, R. L., Electricity, Heating, and Welding; Batteries; Resistances and Rheostats; Prime Mover Dynamo Plants; Conduits and Housings. | Mar. 5 | Mar. 6 | 1,687 |
| 269 | 61. PARKS, G. E., Elevators; Winding and Reeling; Pushing and Pulling; Fire Escapes; Ladders; Scaffolds; Velocipedes; Horology; Time-Controlling Apparatus. | Feb. 18 | Mar. 5 | 2,251 |
| 245* | 62. COCHRAN, W. W., Toys; Amusement Devices; Furniture; Fishing and Trapping; Baggage; Package and Article Carriers. | Feb. 11 | Apr. 4 | 2,632 |
| 163 | TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND (Trade-Marks | Nov. 5 | Dec. 1 | 1,819 |
| | (Labels and Prints | Nov. 30 | Dec. 7 | 96 |

* Refers to room numbers in the annex.



# DECISIONS IN PATENT AND TRADE-MARK CASES.

## Commissioner's Decision.

EX PARTE CHR. HANSEN'S LABORATORY, INC.

*Decided October 15, 1928.*

1. TRADE-MARKS—ACT OF 1920—WHAT MAY BE REGISTERED THEREUNDER.

The act of 1920 was intended to afford registration of descriptive terms not registrable under the 1905 act; but, to be registrable, such a term must have been used as a trade-mark and in a sense other than merely to name an article in common language.

2. SAME—"ICE CREAM RENNET"—NOT REGISTRABLE FOR EXTRACTS OF RENNET ENZYMES.

The term "Ice Cream Rennet" *Held* not registrable under the act of 1920, since it is merely a name of the preparation, and its use does not constitute trade-mark use.

ON APPEAL.

Application for registration of trade-mark for extracts of rennet enzymes filed May 28, 1925, Serial No. 215,008.

*Mr. Henry H. Snelling* for the applicant.

KINNAN, *First Assistant Commissioner:*

The applicant has appealed from the decision of the Examiner of Trade-Marks denying registration, under the act of March 19, 1920, of the notation "Ice Cream Rennet" used upon extracts of rennet enzymes. The specimens filed show the notation used in connection with the explanatory statement that the product is—

a pure extract of rennet enzyme, in handy liquid form, especially prepared and packed for the ice cream trade.

The Examiner denied registration upon the ground the notation is merely the name of the goods and that its use is not of the character to support the claim that such notation is a trade-mark.

[1] The Trade-Mark Act, under which registration is here sought, was intended to afford registration of descriptive names or terms which were not registrable under the 1905 act, and this fact is made clear enough by the record of the proceedings leading up to the enactment of this law of March 19, 1920. It is believed, however, that trade-mark use is essential to registration under this act as well as under the 1905 act as amended. The definition of a trade-mark would seem to be the same in connection with both acts.

The applicant has contended that no one ever used this name upon this class of goods previous to its adoption by the applicant, and that the purchasing public recognizes the name as indicating the origin of the applicant's goods. The distinction between a descriptive mark, registrable under the 1920 act, and one which is not registrable because it is not a trade-mark and not used in any sense other than to name an article in common language such as the public either has used or would readily use in referring to the article is not very easily defined. Where preparations, including the extract of rennet, especially designed for use in making ice cream are upon the market, and this fact is well known to those engaged in the business of manufacturing ice cream, it is obvious enough these parties would refer to such special preparations by the name the applicant uses and seeks to register as a trade-mark. It does not seem important that no instance is revealed of such actual use of these words, as they constitute just the natural terms the public would use in referring to such preparations and no one can obtain a monopoly upon the right to use them.

In the publication entitled "Milk," by Paul G. Heineman, director of the laboratories of the United States Standard Serum Company, Woodworth, Kenosha County, Wis., published by W. B. Saunders Company, on page 634, appears the statement:

So-called "ice-cream powders" for producing a rich and smooth ice-cream are purchasable in the market. * * * Some ice-cream powders contain starchy substances as well, such as flour or cornstarch. Some even have powdered rennet mixed with other stabilizers.

It should be noted the foregoing states these "ice-cream powders * * * are purchasable in the market. This indicates that special ice-cream preparations including rennet are purchasable in the market and are known in the trade as ice-cream powders. It would seem but an obvious step for those in the trade to designate the powders which have rennet in them as ice-cream rennet, since they are specially prepared powders for the making of ice cream. This would indicate that the applicant's notation is merely the name of the goods.

The patent to Frederiksen, No. 1,046,766, issued December 10, 1912, class 99, subclass 11, describes and claims a special composition to be used in the manufacture of ice cream, and this composition comprises rennet ferment and sugar. In the patent to Sanna, No. 1,414,213, April 25, 1922, same class, another special preparation is described to be used in the manufacture of ice cream, and this preparation is referred to as including pulverized milk to which are added enzymes, such as pepsin or rennet. In the United States Dispensatory, 20th edition, page 1539, a composition is referred to as being marketed under the name of "pegnin" and is referred to as "milk-sugar rennet." Again, on page 1405, reference is made to a "cheese rennet" stated to be of vegetable origin, and, finally, on page 1667, a substance is described as a "vegetable rennet."

[2] In view of the foregoing it seems proper to hold that specially-prepared compositions including rennet or a rennet enzyme for use in making ice cream are well known to those engaged in this industry and that to refer to any one of these as an ice-cream rennet would be to employ but the obviously descriptive

words or the obvious name of the goods. Notwithstanding, therefore, that this Office is not aware of any instance where this name has actually been used in connection with goods of the character here under consideration, yet it is deemed clear such notation as applicant seeks to register as a trade-mark involves merely the name of the preparation, and the use of such name does not constitute trade-mark use.

The decision of the Examiner of Trade-Marks is affirmed.

## U. S. Circuit Court of Appeals—Sixth Circuit.

LAKEWOOD ENGINEERING CO. *v.* WALKER ET. AL.

*No. 4,780. Decided January 4, 1928.*

[23 F. (2d) 623.]

1. PATENTABILITY—ROAD-SURFACING DEVICE.

Claims for a road-surfacing device *Held* patentable over prior art devices which do not respond to the letter of the claims, "because they are not road-surfacing devices," nor to the spirit of the claims "because they are in fields too far away."

2. SAME—INVENTION—MAY LIE IN CONCEPTION OF NEW USE.

The quality of invention *Held* properly found "to be present in this conception that the old material could be employed for this new use, coupled with the (thereupon) rather obvious mechanical changes which were necessary to make practical the application of the thought."

APPEAL from the District Court of the United States for the Eastern District of Michigan; Arthur J. Tuttle, judge.

Suit in equity by George C. Walker and another against the Lakewood Engineering Company. Decree for complainants, and defendant appeals. Decree modified, and, as so modified, affirmed.

For opinion below, see 14 F. (2d) 333.

*Mr. Frank E. Dennett* for the appellant.

*Mr. Stuart C. Barnes*, (*Messrs. Lucking, Hanlon, Lucking & Van Auken* and *Mr. Howell Van Auken* on the brief) for the appellees.

Before DENISON, DONAHUE, and MOORMAN, Circuit Judges.

DENISON, *C. J.*:

The defendant below appeals from the usual interlocutory decree for injunction and accounting, based upon Patent No. 1,234,984, dated July 31, 1917, issued to appellee Walker for a float for concrete pavements. This consists of a strip of flexible heavy material, which he called a strap, carrying a handle at each end, and intended to be pulled back and forth transversely over the surface of a new and soft concrete pavement, thereby working in the coarser particles and smoothing and floating the surface, as a mason floats the surface of a plastered wall. The defense is that the patent was invalid for lack of invention.

The substantial utility of the device, as compared with the formerly known methods, can not be seriously questioned. Concrete pavements, whether sidewalk or street, were built by placing the wet mixture between side guards, which made a form, and, after sufficiently even distribution and tamping or otherwise packing down of the material, the surface was smoothed and perfected in one of two ways: One was to take a rigid board or bar resting upon the edge forms and move it back and forth transversely and diagonally of the pavement, with a smoothing and floating effect. The other was to throw across, from form to form, a bridge upon which the workman could stand while he used hand trowels and floats to perfect the surface.

The patented device got a result as good as or better than the hand-tool floating, and with much less time and expense, and it had some inherent advantages over the rigid-bar float. Its flexibility enabled it to accommodate itself to inequalities and hard or soft spots in the surface, and reduce them to uniformity more gradually and more prefectly, its weight being sufficient to cause it to drag down high spots, reducing them less abruptly than a rigid bar would do; and its flexibility also permitted that, as it was given forward progress longitudinally of the pavement, as secondary to its transverse reciprocating motion, the forward edge could yield upwardly, or could be turned upwardly, and pass over some high spots, so as to reduce them, instead of carrying them along and piling them up ahead of the float.

[1] We have little difficulty with the earlier patents and devices which are set up as anticipations or as inconsistent with the existence of any invention in what Walker did. They do not respond to the letter of the claims,[1] because they are not road-surfacing devices[2]; nor to its spirit, because they are in fields too far away. They are: a short thin strip for shining shoes; a similar one, preferably six inches long, three-fourths of an inch wide, and one-sixteenth of an inch thick, for rubbing filler into the pores of wooden spokes; a flesh-rubbing belt, made of coarse strands of hair and apparently two or three feet long; and a belt for rubbing and thereby cleaning horses' legs, which also was relatively short, small, and light. Between these devices and the one patented there is such a difference in size, strength, and weight, and in purpose and manner of use, that they furnish no effective suggestion of either the means or the result which Walker accomplished. They operated under tension, and they applied the pressure which the muscles of the operator furnished. Considered as supporting the defense that Walker's plan was a mere double use of what they show, they are so much less effective than the one which is now to be considered that they may be passed without further comment.

[1] 1. As a new article of manufacture, a road-surfacing strap having provision at the ends thereof, so that said strap may be manipulated upon the surface of the road.
2. A road-surfacing device, comprising a flat pliable strap, and handle bars at the ends thereof.

[2] Many a claim to a device or an article has been sustained, because its reference to its purpose or use was thought enough to distinguish it patentably from earlier devices, which would be covered by its otherwise too broad words of structural description—e. g., an old continuous cement lining claimed in a pulp digester, *Munsing v. American Co.* (C. C. A. 6) 228 F. 700; an old bituminous composition, claimed as a street pavement, *Warren v. Owosso* (C. C. A. 6) 166 F. 309; an old compound claimed as a resistance element, *General Electric Co. v. Hoskins Co.* (C. C. A. 7) 224 F. 464.



The patent gives instructions that the device may be made by taking a piece of flexible and pliable belting, heavy enough so that its weight will work the material into the roadway, and attaching a handle at each end so that two workmen can pull it back and forth. As the district judge suggests, it is familiar knowledge that used thrashing-machine belts or similar power belts were commonly lying about, and it follows that all Walker did was to take one of these existing belts, attach handles, and use it for the new purpose. From this aspect of double use, the question of invention becomes a close one. Of course, there is no inventive conception in merely attaching a handle to make the belt more controllable, after the thought of using the belt for this purpose was developed; but it may be said that the handles, like the scale marking in *Dunn v. Standard* (C. C. A. 6) 204 F. 617, 623, indicate and characterize the novelty of the use and so join in creating a patentable combination. It is apparent now that these old belts would have been useful, not only for floating concrete pavements, but for smoothing up soft ground or many similar purposes. This useful means had been at hand all the years, but no one had ever thought of using it; and indeed it is a far cry from a power conveyer to a mason's trowel. Further, the very flexibility of the belt, which has turned out to be its best characteristic in the new use, might well have seemed to forbid that use.

[2] Judged by the objective and subjective tests which are applicable, and by which we have been guided as well as may be in other cases, we conclude that the district judge was right in finding the quality of invention to be present in this conception that the old material could be employed for this new use, coupled with the (thereupon) rather obvious mechanical changes which were necessary to make practical the application of the thought. See *Western Electric v. La Rue*, 139 U. S. 601, 55 O. G. 571; *Potts v. Creager*, 155 U. S. 597, 70 O. G. 494; *General Co. v. Bullock* (C. C. A.) 152 F. 427; *Aiken v. Nat. Tube Co.* (C. C. A.) 163 F. 254; *Herman v. Youngstown* (C. C. A.) 191 F. 579; *Lyman v. Bassick* (C. C. A.) 18 F. (2d) 29, 35. See, also, *In re Carr*, 57 App. D. C. 112, 17 F. (2d) 959; 359 O. G. 4.

The supposed rule of the *Locomotive Truck Co. Case*, 110 U. S. 493, 4 S. Ct. 220, 28 L. Ed. 222, is much pressed upon us; but that case, as well as *Potts v. Creager*, and all that follow, recognize that the application to a new use may be invention, if there be a sufficient lack of analogy and if there be some adaptation. It is not without importance that the novel thought here involved might well have been expressed in terms of method, and courts will be slow to invalidate a product patent, only because the claim took that form, instead of the method form.

As to infringement, we observe only one substantial question. The defendant uses a strike board or form which shapes the surface roughly, and follows this by a tamping device, and this by the characteristic reciprocating and transverse dragging of a strip of canvas belting. It is set at a slight angle, so that the forward edge is raised and performs substantially the work contemplated by the patent. It is of relatively light weight, and defendant claims that it only wipes off the water, and does not float the material to a substantial extent. This claim is not sustained by the evidence. The device produces results different in degree from those which would be produced by a heavier leather belt, but we have no doubt it has a substantial reducing, smoothing, and floating effect.

The decree should therefore be affirmed. We think, however, it should be modified, as we are now directing in appropriate cases, by providing that the master upon the accounting should ascertain and report what a reasonable royalty would be, if it should later seem to the court proper to adopt, in whole or in part, that measure of damages.

The decree, as so modified, is affirmed.

## Patent Suits.

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

860,929, Merrell & Merrell, Process and apparatus for separating the moisture from the constituent solids of liquids; 1,000,931, same, Apparatus for recovering the constituent solids of liquids and semiliquids, C. C. A., 6th Cir., Doc. 4994, *Merrell-Soule Co. v. Northland Dairy Co.* Patent 860,929 and claims 3 and 4 of 1,000,931 held valid and infringed Nov. 12, 1928.

1,000,931. (See 860,929.)

1,018,502, Just & Hanaman, Manufacture of incandescent electric lamps; 1,180,159, I. Langmuir, Incandescent electric lamp, C. C. A., 3d Cir., Doc. 3770, *Sunray Lamp Co., Inc., et al. v. General Electric Co.* Decree affirmed July 16, 1928.

1,019,406, L. H. Baekeland, Composite cardboard, D. C., S. D. N. Y., Doc. E 41/293, *Bakelite Corp. v. Insulating Co. of America, Inc., et al.* Consent decree for plaintiff (notice Nov. 12, 1928).

1,022,140, C. Hubert, Portable lighter, filed Sept. 17, 1928, D. C., N. D. Ill., E. Div., Doc. 8577, *M. E. Bernhardt Co. v. O. & K. Lighter Co. et al.* Same, filed Sept. 26, 1928, D. C., N. D. Ill., E. Div., Doc. 8587, *M. E. Bernhardt Co., Inc., v. King Mfg. Co.*

1,089,405, W. S. Ferguson, Reenforced-concrete dock or pier, filed Nov. 9, 1928, D. C., E. D. Mich., S. Div., Doc. 3049, *The Dock & Terminal Engineering Co. et al. v. Parker Bros. Co., Ltd.*

1,102,152, P. Jones, Process of pumping oil wells, filed Sept. 25, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–45–H, *Jones McLaughlin, Inc., v. G. F. Getty, Inc.*

1,125,476, G. Claude, System of illuminating by luminescent tubes, filed Nov. 14, 1928, D. C., N. D. Ohio, E. Div., Doc. 2763, *The Bellows-Claude Neon Co. v. The Day-Lo Sign Co.* Doc. 2764, *The Bellows-Claude Neon Co. v. National Neon, Inc.*

1,142,361, G. Ornstein, Process of antisepticizing water, D. C. Wash. (Seattle), Doc. 550, *Electro Bleaching Gas Co. et al. v. The City of Seattle.* Order of dismissal July 19, 1927.

1,180,159. (See 1,018,502.)

1,221,997, F. G. Koehler, Truck, filed Sept. 21, 1928, D. C., N. D. Ill., E. Div., Doc. 8580, *F. G. Koehler v. Mercury Mfg. Co.*

1,296,103, K. O. Muehlberg, Tube coupling, C. C. A., 6th Cir., Doc. 4855, *K. O. Muehlberg v. International Metal Hose Co.* Patent held not infringed Nov. 7, 1928.

1,296,863, W. T. Sears, Adjusting mechanism for drilling machines, C. C. A., 6th Cir., Doc. 5029, *The Carlton Machine Tool Co.* v. *Niles-Bement-Pond Co.* Decree modified and affirmed Nov. 7, 1928.

1,316,120, 1,359,546, F. W. Sutherland, Machine for and method of sealing waxed cartons, C. C. A., 6th Cir., Doc. 4956, *Michigan Carton Co.* v. *Sutherland Paper Co. et al.* Doc. 4957, *Sutherland Paper Co. et al.* v. *Michigan Carton Co.* Doc. 4958, *Sutherland Paper Co. et al.* v. *Michigan Carton Co.* Claim 10 of 1,316,120 and claims 10 and 11 of 1,359,546 held not infringed; claim 13 of 1,316,120 and claim 12 of 1,359,546 held valid and infringed, Nov. 7, 1928.

1,329,656, A. H. Fargo, Insulator; 1,429,369, W. M. Parker, Attaching device, C. C. A., 6th Cir., Doc. 4970–4972, *Porcelain Appliance Corp.* v. *Trenle Porcelain Co. et al.* Patent held invalid Nov. 7, 1928.

1,359,546. (See 1,316,120.)

1,420,612, A. Vanderveld, Measuring and computing machine; 1,443,332, same, Cloth or ribbon measuring machine, C. C. A., 6th Cir., Doc. 4942, *A. Vanderveld et al.* v. *The Rollman & Sons Co.* Doc. 4943, *The Rolman & Sons Co.* v. *A. Vanderveld et al.* Claims 2 and 23 of 1,420,612 held invalid; claim 7 of 1,443,332 held not infringed and claim 10 held valid and infringed Nov. 7, 1928.

1,424,144, B. Kunkel, Battery cover, C. C. A., 6th Cir., Doc. 4924, *B. Kunkel* v. *Ford Motor Co.* Patent held invalid Nov. 7, 1928.

1,426,143, E. J. Bliss, Device for measuring feet, C. C. A., 1st Cir., Doc. 2274, *Clarke-Emerson Mfg. Co.* v. *Regal Shoe Co.* Decree affirmed (notice Nov. 14, 1928).

1,429,369. (See 1,329,656.)

1,432,658, C. J. Bellar, Grease pump; 1,548,220, C. Spaeth, Liquid-dispensing appliance; Re. 16,284, same, Hose nozzle; 1,544,356, same, Hand truck, C. C. A., 6th Cir., Doc. 4959, *The Marvel Equipment Co.* v. *Merit Oil Equipment Co.* Doc. 4960, *Merit Oil Equipment Co.* v. *The Marvel Equipment Co.* Decrees affirmed Nov. 7, 1928.

1,439,406, H. E. Elrod, Sewage disposal plant and system, D. C., S. D. Calif. (Los Angeles), Doc. E L–100–J, *H. E. Elrod* v. *City of Pomona.* Dismissed without prejudice Nov. 30, 1928.

1,443,332. (See 1,420,612.)

1,481,962, J. W. Irvin, Valve-in-head motor, filed Nov. 12, 1928, D. C. Nebr. (Lincoln), Doc. E 282, *J. W. Irvin* v. *Nebraska Buick Auto Co. et. al.*

1,522,145, C. T. Rottler, Cutter head, D. C. Wash. (Seattle), Doc. 455, *C. T. Rottler* v. *M. H. Hansen et al.* Dismissed without prejudice July 28, 1926.

1,522,928, F. C. Wiggins, Method and apparatus for producing a resilient printing plate, C. C. A., 6th Cir., Doc. 4993, *Fulton Bag & Cotton Mills* v. *Werthan Bag Co.* Claims 15 and 22 held valid and infringed, product claims and method claim 10 held invalid, Nov. 12, 1928.

1,526,007, H. S. Mills, Reel for vending machine, filed Aug. 3, 1928, D. C., N. D. Ill., E. Div., Doc. 8533, *Mills Novelty Co.* v. *American Can Co.*

1,544,356. (See 1,432,658.)

1,548,220. (See 1,432,658.)

1,556,179, J. R. Titman, Combined choke and needle valve control, D. C., S. D. N. Y., Doc. E 36/206, *J. R. Titman et al.* v. *The Ford Motor Co.* Dismissed Nov. 9, 1928.

1,561,836, N. Q. Donnelly, Apron, filed Sept. 10, 1928, D. C., N. D. Ill., E. Div., Doc. 8564, *Donnelly Garment Co.* v. *H. A. Satin & Co. et al.* Doc. 8565, *Donnelly Garment Co.* v. *L. Levin et al.*

1,585,233, J. W. Coast, jr., Continuously distilling and cracking hydrocarbon oils, filed Aug. 25, 1928, D. C., N. D. Ill., E. Div., Doc. 8560, *Empire Refineries, Inc.*, v. *Universal Oil Products Co.*

1,601,575, L. C. Marshall, Piston packing, D. C. Wash. (Seattle), Doc. 628, *The Simplex Piston Ring Co. of America, Inc.*, v. *Triangle Automotive Parts Co.* Dismissed without prejudice Oct. 9, 1928.

1,603,324, W. J. David, Apron, filed Nov. 10, 1928, D. C. Nebr. (Omaha), Doc. E 996, *F. W. Peets* v. *Master Mfg. Co., Inc.*

1,627,456, G R. Philip, Sand-blast relief carving, filed Oct. 24, 1928, D. C. Vt. (Burlington), Doc. 108, *Cross Bros. Co.* v. *A. Gustafson (Johnson & Gustafson).*

1,655,369, J. H. Helfrich, Cosmetic, filed Aug. 15, 1928, D. C., N. D. Ill., E. Div., Doc. 8551, *J. H. Helfrich et al.* v. *L. A. Solo et al.*

1,677,142, Engel-Kron & Trey, Hand bag, filed Nov. 15, 1928, D. C., S. D. N. Y., Doc. —, *S. Trey* v. *A. A. Greenspan et al.* (*Greenspan & Branstein*).

1,677,362, H. D. Oberdorfer, Portable bleacher, filed Nov. 13, 1928, D. C., E. D. Ill. (Danville), Doc. 166–D, *H. D. Oberdorfer* v. *F. C. Vance et al.*

1,680,618, E. S. Hutton, Locking mechanism, filed Nov. 9, 1928, D. C., E. D. Mich., S. Div., Doc. 3050, *A. H. Pearson* v. *G. E. Swartz et al.*

Re. 15,533, J. B. Atkins, Rim structure, C. C. A., 6th Cir., Doc. 4986, *The G-H Rim Co.* v. *The Firestone Steel Products Co.* Patent held invalid Nov. 16, 1928.

Re. 15,824, S. H. Calkins, Pattern and guide strip, filed Nov. 13, 1928, D. C., S. D. N. Y., Doc. E 47/121, *The Trattel Marble Co.* v. *Manhattan Terrazzo Brass Strip Co., Inc.*

Re. 16,284. (See 1,432,658.)

Des. 43,459, Kellner & Worms, Knitted necktie, D. C., S. D. N. Y., Doc. E 39/226, *Franklin Knitting Mills, Inc.*, v. *White & White, Inc.* Consent order of discontinuance Oct. 13, 1928.

Des. 46,682, A. A. Kraenter, Handle for pliers, D. C., S. D. N. Y., Doc. E/324, *Kraenter & Co., Inc.*, v. *United Hardware & Tool Corp.* Consent decree for plaintiff (notice Nov. 15, 1928).

Des. 70,961, J. Y. Jenkins, Doll, filed Oct. 22, 1928, D. C., S. D. Calif. (Los Angeles), Doc. E O–63–H, *J. Y. Jenkins* v. *D. Lucchesi et al.*

Des. 73,930, D. E. Lindsay, Lantern, filed Nov. 14, 1928, D. C., S. D. N. Y., Doc. E 47/122, *Martin Mfg. Co., Inc.*, v. *Empire Lighting Fixture Co., Inc.*

# TRADE-MARKS

## OFFICIAL GAZETTE, DECEMBER 25, 1928.

[VOL. 377. No. 4.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for " under the ten-year proviso " are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

## CLASS 1.

### Raw or Partly-Prepared Materials.

Ser. No. 274,279. PREMOID PRODUCTS INC., West Springfield, Mass. Filed Oct. 25, 1928.

**PREMOID**

For Rubber-Containing Fibrous Material in Block or Sheet Form, Including Rubber-Containing Paper Rolls.
Claims use since Jan. 15, 1924.

## CLASS 3.

### Baggage, Animal Equipments, Portfolios, and Pocketbooks.

Ser. No. 254,018. U. S. HAME COMPANY, Buffalo, N. Y. Filed Aug. 26, 1927.

"BUFFALONIAN"

For Hames.
Claims use since Aug. 5, 1927.

## CLASS 4.

### Abrasive, Detergent, and Polishing Materials.

Ser. No. 263,622. JOSEF SJÖSTRÖM, Stockholm, Sweden. Filed Mar. 22, 1928.




The mark consists in a portrait supposed to be a likeness of a historical personage called "Prince of Parma."
For Soap, Soft Soap, Soap Powder, Washing Powder, Scouring Powder, Shaving Cream, and Creams for the Care of Leather.
Claims use since Feb. 10, 1928.

Ser. No. 269,943. CHERAMY, INC., New York, N. Y. Filed July 21, 1928.

**Ciel Bleu**

For Toilet Soaps.
Claims use since Dec. 30, 1924.

Ser. No. 269,944. CHERAMY, INC., New York, N. Y. Filed July 21, 1928.

**Blue Skies**

For Toilet Soaps.
Claims use since Oct. 4, 1927.

Ser. No. 271,351. FERD. MULHENS, INC., New York, N. Y. Filed Aug. 21, 1928.

RHINE GOLD

For Soaps.
Claims use since January, 1914.

Ser. No. 274,443. DOUBLE QUICK CLEANSER CORPORATION, Lynchburg, Va. Filed Oct. 29, 1928.




All wording appearing on the drawing except the words "Lucky Way" is disclaimed apart from the mark shown on the drawing.

For Preparation for Cleaning Clothing, Draperies, Rugs, Household Furniture, Tiles, Floors, Refrigerators, Sinks, Linoleum, Painted Surfaces, Glass Windows, Dishes, Silverware, and Automobile Bodies.

Claims use since Oct. 1, 1928.

## CLASS 6.

### Chemicals, Medicines, and Pharmaceutical Preparations.

Ser. No. 232,601. LEONARD BERGSTEIN, doing business as Len-May Laboratory, Detroit, Mich. Filed June 2, 1926.




The words "Use Hand Spray" and the word "Vermin" are disclaimed apart from the mark as shown without waiving any common law rights.

For Spray in Liquid Form for Protection Against Mosquitoes, Flies, Moths, Ants, Fleas, Bedbugs, and Roaches.

Claims use since May 5, 1926.

Ser. No. 249,711. SPENCER D. EMBREE, doing business as The Cheer Co., Elizabeth, N. J. Filed May 28, 1927.

Cheer

For Water Softeners.

Claims use since on or about May 24, 1927.

Ser. No. 252,869. BELVEDERE TOILET PRODUCTS INC., St. Paul, Minn. Filed Aug. 1, 1927.

GLOSSCO

For Hairdressing Preparations.

Claims use since about Sept. 1, 1925.

Ser. No. 261,424. DIAMALT-AKTIEN-GESELLSCHAFT, Munich, Germany. Filed Feb. 9, 1928.

„Diagum"

For Starch Grains, Starch Flour, Starch Paste, Gum Tragacanth, Gum-Tragacanth Substitutes, Gluten, Vegetable Gum, and Vegetable Glue, All Used in the Manufacture of Finishing Preparations for Textiles.

Claims use since Apr. 22, 1910.

Ser. No. 263,458. CHEMISCH-PHARMAZEUTISCHE A. G. BAD HOMBURG, Bad Homburg vor der Hohe, Germany. Filed Mar. 20, 1928.

Phosvitan

For Chemical Preparations Used as Rodent, Plant, and Insect Exterminators; Chemical Food Preservatives; Medicated Kidney, Corn, Bunion, and Rheumatism Plasters; Nutritive Tonics, and Medicinal Preparations Indicated in Repairing Tissues and Building Strength.

Claims use since Aug. 20, 1925.

Ser. No. 263,614. GEORGE T. O'CONNOR, Newark, N. J. Filed Mar. 22, 1928.




No registration rights are claimed for the words "Ecenchal, Items, Kit."

For Tooth Paste, Tooth Powder, Foot Powder, Talcum Powder, Face Powder; Compacts—viz, Compact Powders and Compact Rouges; Liquid Face Powder, Lip Sticks, Eyebrow Pencils, Mascara, Powder Refills and Rouge Refills, Sachet, Face Lotion, Cold Cream, Hair Tonic, Shampoo, Bleaching Liquid, Mouth Wash, Bath Crystals, Corn Remedy, Perfume, Toilet Water, Preparation for Removing the Cuticle, Nail Polish, Liniments, Ointments, and Medicinal Preparations for the Skin and Blood.

Claims use since Jan. 16, 1928.



Ser. No. 264,565. CRUMP LABORATORIES, INCORPORATED, Louisville, Ky. Filed Apr. 9, 1928.




For Medicinal Preparations for Coughs and Bronchial Colds, Laxatives, and Aspirin.

Claims use since 1914.

Ser. No. 264,988. AKIRA IMAZU, Osaka, Japan. Filed Apr. 17, 1928.




For Insecticide.

Claims use since Dec. 1, 1927.

Ser. No. 265,173. ANDREW M. STANNARD, New York, N. Y. Filed Apr. 20, 1928.

E-Z-GRIND

For Compound for Dentists' Use to be Applied to Teeth for the Purpose of Desensitizing the Teeth in the Preparation of Them for the Reception of Fillings and Crowns.

Claims use since Jan. 10, 1928.

Ser. No. 265,918. NIAGARA SPRAYER COMPANY, Middleport, N. Y. Filed May 4, 1928.

KOLOFORM

For Parasiticides.

Claims use since Feb. 2, 1927.

Ser. No. 267,214. SOCIÉTÉ ANONYME M. NAEF & CIE., Geneva, Switzerland. Filed May 29, 1928.

"INVARIA"

For Artificial and Synthetic Perfumes and Essential Oils.

Claims use since Jan. 20, 1928.

Ser. No. 271,947. SPRONCK & HAMBURGER, Utrecht, Netherlands. Filed Sept. 5, 1928.

EUVACCIN

For Chemical and Biological Substance for Use as a Preparation for the Diagnostic, the Prognostic, and the Treatment of Tuberculosis, Rheumatism, and Other Illnesses.

Claims use since May 1, 1928.

Ser. No. 271,948. SPRONCK & HAMBURGER, Utrecht, Netherlands. Filed Sept. 5, 1928.

VACCININE

For Chemical and Biological Substance for Use as a Preparation for the Diagnostic, the Prognostic, and the Treatment of Tuberculosis, Rheumatism, and Other Illnesses.

Claims use since May 1, 1928.

Ser. No. 271,949. SPRONCK & HAMBURGER, Utrecht, Netherlands. Filed Sept. 5, 1928.

VACCINOL

For Chemical and Biological Substance for Use as a Preparation for the Diagnostic, the Prognostic, and the Treatment of Tuberculosis, Rheumatism, and Other Illnesses.

Claims use since May 1, 1928.

Ser. No. 272,198. WILLIAM CHILDRESS, Corpus Christi, Tex. Filed Sept. 11, 1928.



The picture forming a part of the trade-mark is a portrait of the applicant.

For Liniment for Use in the Treatment of Rheumatism, Neuralgic Affections, and Parasitic Diseases of the Skin and for a Tonic for Use in the Treatment of the Blood.

Claims use since Sept. 1, 1927.

Ser. No. 272,199. FRANK C. COWDREY, doing business as Cowdrey Drug Co., Van Nuys, Calif. Filed Sept. 11, 1928.

POLLO-REM

For Poultry Tonic and Insecticidal Spray, Lice Powder, Worm Expeller, and Preparation for the Treatment of Colds, Pneumonia, and Coccidiosis in Poultry.
Claims use since May 1, 1928.

Ser. No. 272,673. SARGEANT ACNOID PHARMACEUTICAL CO. INC., East Orange, N. J. Filed Sept. 19, 1928.

LAPODO

For Ointment for Local Use to Relieve Pain and Soreness.
Claims use since Jan. 1, 1928.

Ser. No. 272,941. IRVING-CARL LABORATORIES, INC., Reading, Pa. Filed Sept. 25, 1928.

RIX

For Salve for the Treatment of Burns, Ulcers, Sunburn, Eczema, Cuts, Pimples, Chafed Skin, and Leg Ulcers.
Claims use since July 19, 1928.

Ser. No. 273,110. PAUL MANNING, doing business as The Manning Company, West Springfield, Mass. Filed Sept. 28, 1928.

ISTAROL

For Perfumes and Deodorants.
Claims use since Nov. 1, 1922.

Ser. No. 273,135. COFFMAN BROTHERS COMPANY, Waynesboro, Pa. Filed Sept. 29, 1928.

Chapatin

For Hand Lotion.
Claims use since about 1898.

Ser. No. 273,581. CRESTA BLANCA COMPANY, San Francisco, Calif. Filed Oct. 10, 1928.

MOUNT LASSEN

For General Medicinal Tonic Having a Wine Base.
Claims use since Oct. 4, 1928.

Ser. No. 273,637. LUYTIES PHARMACAL COMPANY, St. Louis, Mo. Filed Oct. 11, 1928.

DENTABS

For Dentifrice in Tablet Form.
Claims use since Oct. 2, 1928.

Ser. No. 273,676. VICTOR X-RAY CORPORATION, Chicago, Ill. Filed Oct. 11, 1928.

BARI-O-MEAL

The word "Meal" does not form a part of the registration sought apart from the trade-mark shown in the drawing.
For Mixture of Barium Sulphate with Cereal Adapted to be Used Internally for Producing Opacity Preliminary to X-Ray Photography.
Claims use since about Jan. 1, 1928.

Ser. No. 273,745. AVERY W. FROST, doing business as A. W. FROST CO., Chicago, Ill. Filed Oct. 12, 1928.

Colette

For Face Powder, Toilet Powder, Tissue Cream, Cleansing Cream, Liquid Rouge, Nail Enamel, Hand Lotion, and Brilliantine.
Claims use since Jan. 1, 1928.

Ser. No. 273,930. H. F. OWENS, doing business as H. F. Owens Company, Chicago, Ill. Filed Oct. 17, 1928.

SYRASCO (OWENS)

For Preparation for Use in the Treatment of Certain Forms of Colds, Coughs, and Fevers.
Claims use since Jan. 12, 1928.

Ser. No. 274,282. PRINCE MATCHABELLI PERFUMERY, New York, N. Y. Filed Oct. 25, 1928.

QUEEN OF GEORGIA

For Perfumes.
Claims use since Nov. 3, 1926.



Ser. No. 274,384. HORACE G. DODD, doing business as Anti-Pneumo Chemical Co., Richmond, Va. Filed Oct. 27, 1928.

ANTI-PNEUMO

For Medicinal Salves for Treating Bronchitis, Asthma, Croup, Sore Throat, Chest Colds, Congestion, Inflammation, Neuritis, Rheumatism, and Pneumonia.
Claims use since Aug. 1, 1924.

Ser. No. 274,406. SPICER AND COMPANY, Glendale, Calif. Filed Oct. 27, 1928.

ARETAL

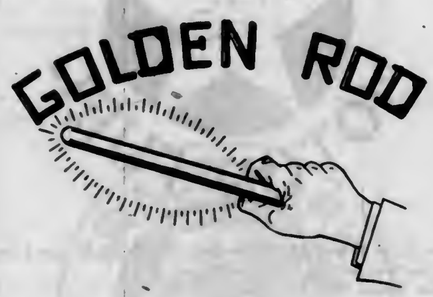
For Analgesic Synthetic Chemical for the Relief of Pain.
Claims use since Oct. 10, 1928.

Ser. No. 274,663. MIDLAND LABORATORIES, Cedar Rapids, Iowa. Fled Nov. 1, 1928.

CALATE

For Antacid Medicines.
Claims use since July 1, 1928.

Ser. No. 274,664. MINICK & GOWDY, New York, N. Y. Filed Nov. 1, 1928.




For Medicine for Rheumatism.
Claims use since Oct. 5, 1928.

Ser. No. 275,143. THE AMERICAN PRODUCTS COMPANY, doing business as Dentex Laboratories, Cincinnati, Ohio. Filed Nov. 12, 1928.

DENTEX

For Dentifrice.
Claims use since July 22, 1928.

## CLASS 9.

### Explosives, Firearms, Equipments, and Projectiles.

Ser. No. 274,681. UNEXCELLED MANUFACTURING COMPANY, New York, N. Y. Filed Nov. 1, 1928.

STORM KING

The letters of the word constituting the mark are bordered with red.
For Fireworks.
Claims use since May 1, 1928.

## CLASS 12.

### Construction Materials.

Ser. No. 266,218. SCOTTISH CANADIAN MAGNESITE COMPANY, LIMITED, Magnesite, Quebec, Canada. Filed May 10, 1928.

BASIFRAX

For Refractory Cement for Lining Furnaces or Ladles or for Similar Purposes, Mortar, and Bricks.
Claims use since June, 1926.

Ser. No. 266,219. SCOTTISH CANADIAN MAGNESITE COMPANY, LIMITED, Magnesite, Quebec, Canada. Filed May 10, 1928.

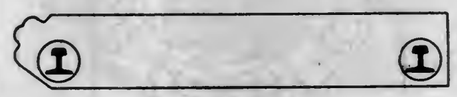
MAGNIFRAX

For Refractory Cement for Lining Furnaces or Ladles or for Similar Purposes, Mortars, and Bricks.
Claims use since June, 1926.

## CLASS 14.

### Metals and Metal Castings and Forgings.

Ser. No. 272,839. THE WEST VIRGINIA RAIL COMPANY, Huntington, W. Va. Filed Sept. 22, 1928.



The representation of the rail ends is disclaimed apart from the mark shown on the drawing.
For Steel and Metal Railroad Ties and Rails, Steel and Metal Mine Ties and Rails, Special Railroad Track Sections and Special Railroad Tracks, Railroad Frogs, and Railroad Switches.
Claims use since March, 1917.

## CLASS 15.

### Oils and Greases.

Ser. No. 245,883. APPALINE OIL COMPANY, Clarksburg, W. Va. Filed Mar. 17, 1927.




Applicant disclaims exclusive use of the words "Oil, Gasoline, Greases," and "Brand" except as they appear in connection with said trade-mark.
For Fuel Oils and Lubricating Oils and Greases.
Claims use since July 1, 1915.

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Ser. No. 256,521. GARLAND PETROLEUM COMPANY, INC., San Francisco, Calif. Filed Oct. 24, 1927.

GAROLINE



For Lubricating Oils and Greases, Kerosene, and Gasoline.
Claims use since May 1, 1926.

Ser. No. 265,813. SINCLAIR REFINING COMPANY, New York, N. Y. Filed May 2, 1928.




The word "Aircraft" is disclaimed apart from the mark as shown on the drawing.
For Gasoline.
Claims use since Apr. 3, 1928.

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Ser. No. 266,023. THE DERBY OIL COMPANY, Wichita, Kans., and Kansas City, Mo. Filed May 7, 1928.




No claim is made to the words "Motor Fuel" apart from the mark shown in the drawing.
For Motor-Fuel Oils and Fuel Oil.
Claims use since Feb. 1, 1928.

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Ser. No. 271,992. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 6, 1928.

POCOLENE

For Hydrocarbon Motor Fuels, Lubricating Oils, Lubricating Greases; Engine, Dynamo, Sewing-Machine, Transformer, Spindle, and Separator Lubricating Oils.
Claims use since Nov. 15, 1924.



Ser. No. 272,577. THE PURE OIL COMPANY, Chicago, Ill. Filed Sept. 17, 1928.

OPALUBE

For Hydrocarbon Motor-Fuel Oils, Lubricating Oils, Lubricating Greases; Engine, Dynamo, Gas-Engine, and Bearing Lubricants.
Claims since Sept. 10, 1924.

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Ser. No. 274,015. THE PENNZOIL COMPANY, Oil City, Pa. Filed Oct. 19, 1928.

TRANZPORT

For Lubricating Oils and Greases.
Claims use since on or about July, 1928.

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## CLASS 16.

### Paints and Painters' Materials.

Ser. No. 273,881. F. O. PIERCE COMPANY, New York, N. Y. Filed Oct. 16, 1928.




For Paint Enamel.
Claims use since about July 1, 1928.

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Ser. No. 274,244. THE J. R. WATKINS COMPANY, Winona, Minn. Filed Oct. 24, 1928.




No claim is made to the words "Trade-Mark" apart from the mark as shown. The mark consists of the portrait and signature of J. R. Watkins, deceased, the founder of the J. R. Watkins Company.
For Furniture Polishes.
Claims use since Mar. 9, 1924.

Ser. No. 274,278. PEPPER BROS., INC., New York, N. Y. Filed Oct. 25, 1928.

GRANALITE

For Ready-Mixed Enamel Paint.
Claims use since Oct. 1, 1928.

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Ser. No. 274,386. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Oct. 27, 1928.

DUOLITH

For Lithopone Pigment.
Claims use since Sept. 18, 1928.

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Ser. No. 274,660. WILLIAM P. MAGEE, East Machias, Me. Filed Nov. 1, 1928.




No claim is made to the exclusive right to the words "Maine's Best Auto Polish" separate and apart from the mark as shown in the drawings.
For Automobile Polish.
Claims use since Sept. 24, 1928.

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## CLASS 21.

### Electrical Apparatus, Machines, and Supplies.

Ser. No. 257,292. NICK KARMELE, Chicago, Ill. Filed Nov. 9, 1927.




No claim is made to the words "Quality, Service, Auto." and "Radio" apart from the mark as shown in the drawing.
For Automobile and Radio-Storage Batteries.
Claims use since Mar. 1, 1926.

Ser. No. 265,200. EDISON STORAGE BATTERY COMPANY, West Orange, N. J. Filed Apr. 21, 1928.

ESBACO

For Insulating Compound or Paint.
Claims use since Mar. 22, 1928.

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Ser. No. 268,421. CASCO PRODUCTS CORPORATION, Bridgeport, Conn. Filed June 21, 1928.

WIRELESS

For Electric Cigar Lighters.
Claims use since about Apr. 15, 1928.

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Ser. No. 270,542. FORD MOTOR COMPANY, Fordson, Mich. Filed Aug. 3, 1928.

Ford

Applicant is owner of trade-mark registrations Nos. 74,530, July 20, 1909; 74,765, Aug. 10, 1909; 115,500, Feb. 20, 1917; 119,602, Dec. 4, 1917; 119,956, Dec. 25, 1917; and 125,702, June 3, 1919.

For Spark Plugs, Electric Switches, Electric Starter Driving Mechanism, Starter Motors, Electric Wires and Cables, Distributors, Commutators, Electric Cut-Outs, Generators, Electric Horns, Electric Lamps and Bulbs, Electric-Light Emergency Kits, Dash Lights, Batteries, Coils, Coil Units, Spark-Plug Porcelains, Magnetos, and Parts of the Foregoing, Magneto Coil Assembly, Magneto Contact Assembly, Commutator Brushes.

Claims use since 1909 as to magnetos; since Jan. 22, 1915, as to electric horns; since 1919 as to electric starter driving mechanism, starter motors, electric cut-outs; since Dec. 1, 1927, as to distributors; since June 9, 1924, as to dash lights; and since about Feb. 15, 1895, as to the other goods mentioned.

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Ser. No. 270,818. CHARLES L. BANKS, doing business as P-B Superior Inc., St. Louis, Mo. Filed Aug. 10, 1928.

P B
SUPERIOR

Applicant makes no claim to the word "Superior" apart from the mark "P-B Superior," as shown in the drawing.

For Electric Hair Clippers, Electric-Hair-Clipper Parts, Electric-Hair-Clipper Cutting Plates, Electric Clipper Motors.

Claims use since July 24, 1925.

Ser. No. 273,055. BENJAMIN F. KLEIN, doing business as The Kayline Company, Cleveland, Ohio. Filed Sept. 27, 1928.

Radiolier

For Electrical Apparatus, Machines, and Supplies, and Particularly a Combination Lighting Fixture and Support for Radio Loud-Speaker Unit.
Claims use since Sept. 18, 1928.

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Ser. No. 273,761. THE CARBON PRODUCTS CO., Lancaster, Ohio. Filed Oct. 13, 1928.



ACE

For Flash Lights and Flash-Light Cases.
Claims use since November, 1927.

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Ser. No. 273,946. SYLVANIA PRODUCTS COMPANY, Emporium, Pa. Filed Oct. 17, 1928.

Sylvania

For Incandescent Electric Lamps.
Claims use since June 19, 1928.

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Ser. No. 273,965. HAROLD W. GROSS, doing business as Universal Electric Log Co., Chicago, Ill. Filed Oct. 18, 1928.

KOLOG

For Electric Logs Which are Adapted to be Used with or without Heating Elements Therein.
Claims use since Aug. 7, 1928.



Ser. No. 274,077. SPLITDORF RADIO CORPORATION, Newark, N. J. Filed Oct. 20, 1928.

Splitdorf

For Radio Receiving Sets and Parts Thereof and Loud Speakers Built into the Sets.
Claims use since latter part of June, 1927.

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Ser. No. 274,609. NOMA ELECTRIC CORPORATION, New York, N. Y. Filed Oct. 31, 1928.

CANDOLIER

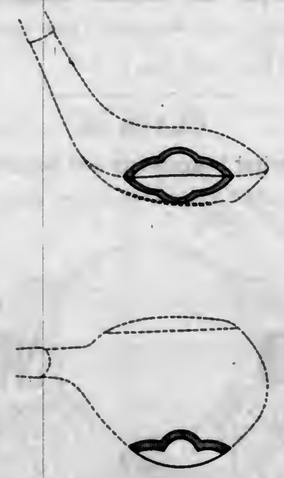
For Decorative Lighting Fixtures.
Claims use since about Aug. 15, 1928.

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## CLASS 22.

### Games, Toys, and Sporting Goods.

Ser. No. 257,210. WILSON-WESTERN SPORTING GOODS COMPANY, Chicago, Ill. Filed Nov. 7, 1927.



The mark is applied or affixed to the goods by arbitrarily applying a copper-colored or brass-colored strip or border to the outline of a white metal weight usually affixed to the trailing edge of the golf-club head. The applicant disclaims the representation of a golf club per se. The drawing is lined at the border to represent a copper color.

For Golf Clubs.
Claims use since Oct. 29, 1927.

Ser. No. 261,835. REGAL DOLL MANUFACTURING CO. INC., New York, N. Y. Filed Feb. 17, 1928.

KIDDIE PAL
DOLLY

No claim is made to the exclusive use of the word "Dolly" apart from the mark shown on the drawing.

For Dolls.
Claims use since about January, 1928.

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Ser. No. 271,434. FIRELITE FORTUNE TELLER CO., Medford, Mass. Filed Aug. 23, 1928.

Firelite

For Fortune-Telling Game.
Claims use since June 6, 1928.

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Ser. No. 273,905. THE DAYTON STEEL RACQUET COMPANY, Dayton, Ohio. Filed Oct. 17, 1928.

JUNIOR PILOT

For Tennis Racquets.
Claims use since on or about Sept. 1, 1928.

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Ser. No. 273,906. THE DAYTON STEEL RACQUET COMPANY, Dayton, Ohio. Filed Oct. 17, 1928.

PILOT

For Tennis Racquets.
Claims use since on or about Sept. 1, 1928.

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Ser. No. 273,907. THE DAYTON STEEL RACQUET COMPANY. Dayton, Ohio. Filed Oct. 17, 1928.

AVIATOR

For Tennis Racquets.
Claims use since on or about Sept. 1, 1928.

Ser. No. 273,908. THE DAYTON STEEL RACQUET COMPANY, Dayton, Ohio. Filed Oct. 17, 1928.

AIR FLIGHT

For Tennis Racquets.
Claims use since on or about Sept. 1, 1928.

Ser. No. 274,201. GARNET CARTER, doing business as Fairyland Mfg. Co., Lookout Mountain, Ga. Filed Oct. 24, 1928.

TOM THUMB

For Apparatus for Playing Indoor Golf.
Claims use since Oct. 10, 1928.

Ser. No. 274,570. PARKER BROTHERS INC., Portland, Me., and Salem, Mass. Filed Oct. 30, 1928.

WHO'S WHO

For Game Played with Cards.
Claims use since Oct. 15, 1928.

## CLASS 26.

### Measuring and Scientific Appliances.

Ser. No. 275,546. NAKKEN PATENTS CORPORATION, New York, N. Y. Filed Nov. 19, 1928.

LUMOPHONE

For Apparatus for Recording and Reproducing Sound Photographically.
Claims use since middle of October, 1928.

## CLASS 28.

### Jewelry and Precious-Metal Ware.

Ser. No. 268,706. SIGMA PHI SIGMA, Champaign, Ill. Filed June 26, 1928.

ΣΦΣ

For Fraternity Pins, Rings, and Pendants, and Badges, All Made of or Plated with Precious Metals.
Claims use since 1908.

## CLASS 29.

### Brooms, Brushes, and Dusters.

Ser. No. 271,285. BAKER BRUSH CO., INC., New York, N. Y. Filed Aug. 20, 1928.

OLD MASTER

For Artists' Brushes.
Claims use since about June 20, 1928.

Ser. No. 274,081. STOVER MANUFACTURING & ENGINE CO., Freeport, Ill. Filed Oct. 20, 1928. Under 10-year proviso.

STOVER

For Brushing, Scrubbing, and Cleaning Implements, Such as Mops, and Mopsticks.
Claims use since 1860.

## CLASS 31.

### Filters and Refrigerators.

Ser. No. 271,481. ERIE MANUFACTURING CORPORATION, Erie, Pa. Filed Aug. 24, 1928.

ACME AUTOMATIC

The word "Automatic" is disclaimed apart from the mark as shown. The lining in the drawing is for shading only.
For Refrigeration Machinery.
Claims use since June 1, 1928.

Ser. No. 272,753. COOLING DEVICES (AMERICA) LTD., New York, N. Y. Filed Sept. 21, 1928.

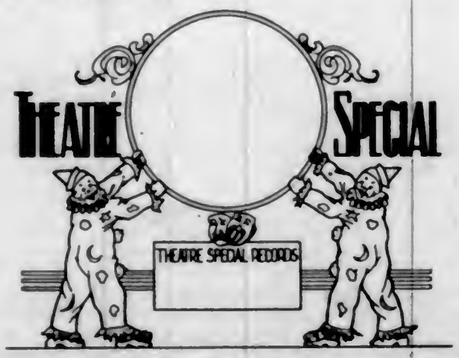
Freez-all

For Containers for Beverages Comprising Means for Cooling the Same.
Claims use since about Aug. 1, 1928.

## CLASS 36.

### Musical Instruments and Supplies.

Ser. No. 271,413. BERNARD TOMPKINS, New York, N. Y. Filed Aug. 22, 1928.




No claim is made to the words "Theatre Special Records" apart from the mark shown on the drawings.
For Phonograph Records.
Claims use since Feb. 1, 1928.



Ser. No. 271,794. BING WERKE VORM. GEBRÜDER BING A. G., Nuremberg, Germany. Filed Aug. 31, 1928.

Valoretta

For Phonographs, Talking Machines, and Their Accessories—Namely, Sound Boxes, Sound Plates, and Talking-Machine Needles.
Claims use since May 25, 1928.

Ser. No. 273,050. THE FRED. GRETSCH MFG. CO., New York, N. Y. Filed Sept. 27, 1928.

G
The Black Dot

For Violins.
Claims use since July 23, 1928.

## CLASS 37.

### Paper and Stationery.

Ser. No. 269,175. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed July 6, 1928.

Three Star

For Chalk.
Claims use since Jan. 1, 1908.

Ser. No. 270,168. THE BROWN BRIDGE MILLS, INC., Troy, Ohio. Filed July 26, 1928.




The trade-mark consists of a red background within the inner circle, as indicated in the drawing. No claim is made to the exclusive use of the terms "Brand" and "High Standard" apart from the mark shown.
For Gummed and Coated Paper and Cloth.
Claims use since May 18, 1928.



Ser. No. 273,440. BROWN COMPANY, Portland, Me., and Berlin, N. H. Filed Oct. 6, 1928.

BROWN COMPANY
FOUNDED 1852

For Paper Towels for Home and Office Use, Kraft Paper for the Wrapping of Merchandise, and Bond Paper for Use in the Making of Blank Books and General Stationery.
Claims use since on or about June 12, 1928, for paper towels, and since Sept. 25, 1928, for other products.

Ser. No. 273,949. WALTER T. VARNEY, San Francisco, Calif. Filed Oct. 17, 1928.

Airgram

The drawing is lined to indicate the colors red and blue.
For Letterheads, Mailing and Correspondence Envelopes, Post Cards, and Combined Letterhead and Envelope.
Claims use since July 1, 1927.

Ser. No. 274,836. WILLIAM T. MADDEN, doing business as Serv-U-Wel Markets, Zanesville, Ohio. Filed Nov. 5, 1928.

SERV-U-WEL

For Toilet Paper or Tissue.
Claims use since Nov. 1, 1927.

Ser. No. 275,157. CROMWELL PAPER COMPANY, Chicago, Ill. Filed Nov. 12, 1928.

DRAGONIDE

For Tympan Paper.
Claims use since June 7, 1928.

## CLASS 38.

### Prints and Publications.

Ser. No. 256,666. THE FINANCE PUBLISHING COMPANY, Cleveland, Ohio. Filed Oct. 27, 1927.

FINANCE & INDUSTRY

For Finance and Industry Publications Published Every Week.
Claims use since April, 1900.

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Ser. No. 266,852. CURTIS-MARTIN NEWSPAPERS, INC., Philadelphia, Pa. Filed May 23, 1928.

*Sonnysayings*

For Cartoons in Newspaper Publications.
Claims use since Mar. 29, 1926.

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Ser. No. 267 817. OSCAR D. WILLIAMS, New York, N. Y. Filed June 9, 1928.

New Story Magazine

For Periodical.
Claims use since April, 1927.

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Ser. No. 271,273. MARIOCA SCHALDACH, Seattle, Wash. Filed Aug. 18, 1928.



For Newspaper Section.
Claims use since July 1, 1922.

Ser. No. 272,596. ROBINE BALL, San Francisco, Calif. Filed Sept. 18, 1928.




For Printed Lesson Sheets and Charts Relating to the Art of Dancing.
Claims use since Feb. 1, 1927.

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Ser. No. 274,149. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed Oct. 23, 1928.

RADIO DIRECTORY

For Section of the Advertising Pages of Radio News.
Claims use since Aug. 25, 1928.

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Ser. No. 274,396. HARVEY F. MORRIS, Rochester, N. Y. Filed Oct. 27, 1928.




For Magazines Published Monthly.
Claims use since Oct. 10, 1928.

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Ser. No. 274,667. NEW YORK CIVIL SERVICE EMPLOYEES PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 1, 1928.

The Chief
THE CIVIL EMPLOYEES WEEKLY

For Weekly Newspaper.
Claims use since Apr. 24, 1897.

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Ser. No. 274,697. BAKERS' HELPER CO., Chicago, Ill. Filed Nov. 2, 1928.

BAKING

For Magazine Issued Every Other Week.
Claims use since Oct. 6, 1928.



Ser. No. 274,707. COVERAGE PUBLISHING CORPORATION, New York, N. Y. Filed Nov. 2, 1928.

TIRE and AUTO ACCESSORY TOPICS

For Periodical.
Claims use since Oct. 1, 1928.

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Ser. No. 274,715. HEATING JOURNALS, INC., New York, N. Y. Filed Nov. 2, 1928.

Oil Heat

For Publication Issued Monthly.
Claims use since Sept. 29, 1928.

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Ser. No. 274,817. THE ARCHITECTS' SMALL HOUSE SERVICE BUREAU OF THE UNITED STATES, INCORPORATED, Minneapolis, Minn. Filed Nov. 5, 1928.

THE SMALL HOME

For Publication Relating to Architectural Subjects.
Claims use since March, 1922.

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Ser. No. 274,826. DELTOX RUG COMPANY, Oshkosh, Wis. Filed Nov. 5, 1928.

Del Talks

For Periodicals.
Claims use since October, 1927.

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Ser. No. 274,853. THEATRE GUILD MAGAZINE, INC., New York, N. Y. Filed Nov. 5, 1928.



For Magazine Issued Periodically.
Claims use since Oct. 1, 1928.

Ser. No. 274,906. BAKER, JONES, HAUSAUER, INC., Buffalo, N. Y. Filed Nov. 7, 1928.

ENLIGHTENED HOMES

For Periodic Publications.
Claims use since Nov. 6, 1928.

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Ser. No. 274,957. THE AMERICAN CRAYON COMPANY, Sandusky, Ohio. Filed Nov. 8, 1928.




For Periodicals.
Claims use since Sept. 1, 1926.

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Ser. No. 275,026. EXPERIMENTER PUBLISHING COMPANY, INC., New York, N. Y. Filed Nov. 9, 1928.

Television Broadcast

For Magazine Section.
Claims use since Oct. 27, 1928.

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Ser. No. 275,194. TIBER PUBLISHING CORPORATION, New York, N. Y. Filed Nov. 12, 1928.

*CORRIERE D'AMERICA*

For Periodical Published Daily.
Claims use since Dec. 27, 1922.

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Ser. No. 275,406. POULTRY TRIBUNE COMPANY, Mount Morris and Chicago, Ill. Filed Nov. 16, 1928.

HATCHERY TRIBUNE

For Periodical.
Claims use since Oct. 1, 1927.

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Ser. No. 275,430. THE DRUG SALESMEN'S ASSOCIATION OF NEW YORK, INC., New York, N. Y. Filed Nov. 17, 1928.

*The* DRUG SALESMEN'S SAMPLE CASE

For Magazine Published Semimonthly.
Claims use since about November, 1925.

## CLASS 39.

### Clothing.

Ser. No. 242,212. REGAL SHOE COMPANY, Whitman and Boston, Mass. Filed Dec. 30, 1926.




No claim of exclusive right is made to the word "Fitted" apart from the remainder of the trade-mark illustrated.

For Boots and Shoes Made Wholly or in Part of Leather.

Claims use since Nov. 1, 1926.

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Ser. No. 243,766. LEVIN & HARRIS SHIRT CO., INC., New York, N. Y. Filed Feb. 3, 1927.




For Men's and Boys' Dress, Sport, Work, and Negligee Shirts.

Claims use since Dec. 21, 1926.

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Ser. No. 254,649. DIECKERHOFF, RAFFLOER & COMPANY, INC., New York, N. Y. Filed Sept. 12, 1927.



For Rubber Garments—Namely, Rubber Gloves and Rubber Aprons for Household and Similar Use, Rubber Baby Pants, Rubber Rompers, Rubber Rain Capes, and Rubber Bathing Caps.

Claims use since Aug. 2, 1926.

Ser. No. 254,668. DICKSON-JENKINS MANUFACTURING COMPANY, Fort Worth, Tex. Filed Sept. 13, 1927.




The words "Brand" and "Work and Play Clothes" are claimed only as associated with the trade-mark shown.

For Work and Dress Trousers, Overalls, Work and Dress Shirts, and Children's and Men's Overalls.

Claims use since March, 1923.

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Ser. No. 255,302. FLORA SHIRT CO., Oklahoma City, Okla. Filed Sept. 27, 1927.

Flora

For Men's Dress, Negligee, and Work Shirts.

Claims use since Sept. 12, 1927.

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Ser. No. 262,875. SOCIÉTÉ CADOLLE FRÈRES, Paris, France. Filed Mar. 9, 1928.

"BIEN-ETRE"

For Corsets, Belts for Outer Wear, Brassières, Underwear Made of Knitted and Textile Fabric for Women and Negligees for Women.

Claims use since Oct. 11, 1927.

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Ser. No. 263,367. I. H. BARNETT & BRO., New York, N. Y. Filed Mar. 19, 1928.

Connecticut Yankee

For Men's and Boys' Dress, Negligee, and Work Shirts.

Claims use since Apr. 19, 1927.

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Ser. No. 267,778. LIBERTY OVERALL COMPANY, Birmingham, Ala. Filed June 9, 1928.

SWAN HEAD



For Men's Overalls, Children's Overalls, Youths' Overalls, Men's Pants.

Claims use since June 1, 1928.



Ser. No. 268,577. BRONSTON BROS. AND CO., INC., New York, N. Y. Filed June 25, 1928.

PONJE

For Men's, Women's, and Children's Straw, Panama, and Felt Hats.

Claims use since July 1, 1926.

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Ser. No. 269,386. THE BADGER RAINCOAT CO., Port Washington, Wis. Filed July 11, 1928.

Badger Tex

For Waterproof Coats, Capes, Hats, Suits, and Ponchos.

Claims use since June 15, 1928.

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Ser. No. 269,774. FRANK G. DELBOS, Brooklyn, N. Y. Filed July 18, 1928.



The use of the descriptive words "Tarsal-Support" and the pictorial representation of a shoe sole is disclaimed apart from the mark as shown, including the right to exclusive use thereof.

For Leather Shoes.

Claims use since about May 21, 1928.

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Ser. No. 269,954. THE H. W. GOSSARD COMPANY, now, by change of name, Associated Apparel Industries, Inc., Chicago, Ill. Filed July 21, 1928.

WHERE STYLE BEGINS

The right to the exclusive use of the word "Style" is disclaimed except in association with the mark as shown.

For Corsets, Brassières, Combined Corsets and Brassières, and Garter Belts.

Claims use since Apr. 5, 1928.

Ser. No. 269,968. J. MANDLEBERG & CO. LIMITED, Manchester, England. Filed July 21, 1928.

VALSTAR

For Men's, Women's, and Children's Showerproof, Rainproof, and Waterproof Coats.

Claims use since Mar. 9, 1928.

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Ser. No. 270,003. AMERICAN TEXTILES, INC., Bay City, Mich. Filed July 23, 1928.

KIDDY-KOOLS

For Knitted and Textile Underwear and Hosiery for Men, Women, and Children.

Claims use since July 9, 1928.

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Ser. No. 270,726. F. SCHULBERG & SON, New York, N. Y. Filed Aug. 7, 1928.

TWIX-TEEN QUALITY CLOTHES

The descriptive term "Quality Clothes" is disclaimed apart from the mark as shown in the drawing.

For Men's and Boys' Clothing Consisting of Overcoats, Topcoats, and Suits, the Latter Consisting of Sack Coat, Vest, and Trousers, and All Made of Woolen Fabrics.

Claims use since July 30, 1928.

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Ser. No. 271,627. SCOTTS LIMITED, London, England. Filed Aug. 27, 1928. Under 10-year proviso.

SCOTTS

For Men's, Women's, and Boys' Caps, Hats, and Helmets.

Claims use since 1890.

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Ser. No. 272,342. NATIONAL TEXTILE DIST. CORP., New York, N. Y. Filed Sept. 13, 1928.

-TRAX-

For Athletic Shirts.

Claims use since about Aug. 22, 1928.

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Ser. No. 272,626. STERN-IMBREY CO., New York, N. Y. Filed Sept. 18, 1928.




No claim is made to the word "Dress" apart from the mark as shown.

For Women's and Misses' Dresses and Frocks.

Claims use since Aug. 8, 1928.

Ser. No. 272,842. WING'S KNITTING MILLS, INC., New York, N. Y. Filed Sept. 22, 1928.

**WINGS**

For Caps Including Caps of the All-Weather Type—Namely, Woven, Wool Knitted, Leather, Artificial-Leather, and Worsted Caps for Men, Boys, and Girls.
Claims use since June 6, 1928.

Ser. No. 273,116. ROBERT REIS & Co., New York, N. Y. Filed Sept. 28, 1928.

**JIMSUIT**

No claim is made to the exclusive right to use the word "Suit" apart from the mark shown.
For Underwear—Namely, Knitted and Textile Union Suits Worn by Men, Women, and Children.
Claims use since June 21, 1928.

Ser. No. 273,694. JOSEPH GIUFFRIDA, doing business as Jay Gee Hat Co., New York, N. Y. Filed Oct. 12, 1928.



The lining on the drawing is merely for shading purposes.
For Straw Hats, Felt Hats, Velour Hats, Cloth Hats, and Velvet Hats for Ladies, Misses, and Children.
Claims use since May, 1928.

Ser. No. 273,734. ABBEY SHIRT COMPANY, INC., New York, N. Y. Filed Oct. 12, 1928.

*Hillsax*

For Men's Dress Shirts.
Claims use since July 1, 1928.

Ser. No. 273,750. MILLER BROTHERS, Houston, Tex. Filed Oct. 12, 1928.

THE
**PINCH HITTER**

For Work Clothing—Namely, Men's and Boys' Overalls, Coats, One-Piece Suits, Lumberjacks, Pants, and Shirts.
Claims use since Sept. 1, 1928.

Ser. No. 273,752. HARRY L. NEWMAN, doing business as Harry L. Newman Co., New York, N. Y. Filed Oct. 12, 1928.

Hi Henry's

"New Yorker's Better Half"

For Men's, Women's, and Children's Hosiery; Men's, Women's, Misses', and Children's Knit and Textile Underwear; and Men's and Boys' Outer, Dress, Negligee, and Work Shirts and Overalls of Every Kind and Character; and Women's, Misses', and Children's Shirt Waists; and Men's, Women's, and Children's Neckties, Hats, and Sweaters.
Claims use since Sept. 4, 1928.

Ser. No. 273,870. WILLIAM GREILICH & SONS, INC., Brooklyn, N. Y. Filed Oct. 16, 1928.

**SNAP-O-SPAT**

No claim is made to the word "Spat" apart from the mark shown in the drawing.
For Gaiters.
Claims use since Mar. 1, 1928.

Ser. No. 273,896. THE ASBURY MILLS, New York, N. Y. Filed Oct. 17, 1928.

*Sun-Kist*

For Bathing Suits for Children, Misses, and Women; Bathing Shoes, Bathing Caps, Bathing Tights, and Bathing Capes.
Claims use since June, 1928.

Ser. No. 273,914. ABRAHAM ELBERG, San Francisco, Calif. Filed Oct. 17, 1928.




The drawing is lined to indicate the color orchid.
For Hosiery.
Claims use since July 16, 1928.



Ser. No. 274,004. DARTMOOR COAT CO., INC., New York, N. Y. Filed Oct. 19, 1928.

*Rumble Seat*

For Ladies' Dresses, Two-Piece Suits, Ensembles, Sport Suits, Knitted Sweaters, Parkas, Fur-Lined Coats, Waterproof Coats.
Claims use since May, 1928.

Ser. No. 274,072. MARTIN SELIGMAN, New York, N. Y. Filed Oct. 20, 1928.

**LOYAL BLUES**

Applicant disclaims the exclusive use of the word "Blues" apart from the mark as shown in the drawing.
For Men's and Young Men's Coats, Vests, Pants, Suits, Raincoats, and Overcoats.
Claims use since June 20, 1928.

Ser. No. 274,183. FINGER, CAHN CO. INC., New York, N. Y. Filed Oct. 23, 1928.

CAMELPELT
STYLED BY
*TOWNFIELD*

Applicant owns registration No. 158,952 for the word "Townfield." Applicant disclaims the right to the exclusive use of the expression "Styled by."
For Men's, Women's, and Children's Wearing Apparel—Namely, Suits, Dresses, Skirts for Outer Wear, Hats, Coats, Waists for Outer Wear, Sweaters, Belts for Outer Wear, Overcoats, Collars, Neckties, and Scarfs.
Claims use since Feb. 1, 1928.

Ser. No. 274,190. BEDFORD JOHNSON COMPANY, INC., New York, N. Y. Filed Oct. 24, 1928.



The words "Bedford Industrial Trousers, Lot, Scale," and "Price" are disclaimed apart from the mark as shown in the drawing. The lining shown on the drawing represents the color yellow.
For Dress Pants.
Claims use since Sept. 1, 1928.

Ser. No. 274,191. BEDFORD JOHNSON COMPANY, INC., New York, N. Y. Filed Oct. 24, 1928.




The words "Bedford Industrial Trousers" are disclaimed apart from the other features of the mark as shown on the drawing.
For Dress Pants.
Claims use since Sept. 1, 1928.

Ser. No. 274,193. BEDFORD JOHNSON COMPANY, INC., New York, N. Y. Filed Oct. 24, 1928.




The words "Bedford Tailored Trousers" are disclaimed apart from the mark as shown on the drawing.
For Dress Pants.
Claims use since Sept. 1, 1928.

Ser. No. 274,263. L. B. EVANS' SON COMPANY, Wakefield, Mass. Filed Oct. 25, 1928.

*Companionate*

For Leather Slippers for Men and Women.
Claims use since Aug. 15, 1928.

Ser. No. 274,269. INTERNATIONAL SHOE COMPANY, doing business as Great Northern Shoe Co., St. Louis, Mo., and Manchester, N. H. Filed Oct. 25, 1928.

WEATHERWEAR

For Leather Boots, Shoes, and Slippers.
Claims use since about Sept. 12, 1928.

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Ser. No. 274,300. SAM VIENER, New York, N. Y. Filed Oct. 25, 1928.

VEE-MODE

The word "Mode" is disclaimed apart from the mark shown in the drawing.
For Hosiery for Men, Women, and Children.
Claims use since Aug. 10, 1928.

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Ser. No. 274,349. LEBANON SHIRT COMPANY, Lebanon, Lititz, Lexington, and Hebron, Pa., and New York, N. Y. Filed Oct. 26, 1928.

RexWear

No claim is made to the word "Wear" apart from the mark as shown in the drawing.
For Men's Dress, Negligee, and Work Shirts; Men's, Women's, and Children's Pajamas; and Men's, Women's, and Children's Underwear Made of Knitted and Textile Fabric.
Claims use since Apr. 12, 1928.

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Ser. No. 274,352. MEEKS AND ALT, Compton, Calif. Filed Oct. 26, 1928.

Form-O-Uth

For Brassières.
Claims use since May 19, 1928.

Ser. No. 274,404. SOL A. ROTHSCHILD CO. INC., Chicago, Ill. Filed Oct. 27, 1928.

The HOUSE of ROTHSCHILD IMPORTERS

No claim is made to the exclusive right to the word "Importers" except as a part of the mark shown in the drawing.
For Leather Gloves and Fabric Gloves.
Claims use since Oct. 8, 1928.

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Ser. No. 274,447. FINESTONE HAHN CO., Boston, Mass. Filed Oct. 29, 1928.

BROW-EZE

For Men's and Boys' Caps.
Claims use since June 21, 1928.

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Ser. No. 274,559. MICHAEL E. HOWATT, New York, N. Y. Filed Oct. 30, 1928.

Desiré

For Men's, Women's, and Children's Hosiery, and Women's and Children's Underwear Made of Knitted and Textile Fabrics; Shawls, Scarfs, Slips, and Lingerie Made of Silk, Cotton, Rayon, or Any Combination Thereof.
Claims use since Aug. 3, 1928.

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Ser. No. 274,579. THE VAUGHAN-HINCKLEY COMPANY, Dallas, Tex. Filed Oct. 30, 1928.

Adorabelle

For Women's, Misses', and Children's Dresses.
Claims use since May, 1927.



Ser. No. 274,662. MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed Nov. 1, 1928.

PARK LANE

For Hosiery.
Claims use since Sept. 20, 1928.

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Ser. No. 274,785. MAVIS-DEAL HOSIERY COMPANY, New York, N. Y. Filed Nov. 3, 1928.

Modelym

For Hosiery.
Claims use since May 14, 1928.

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Ser. No. 274,834. LA SALLE CLOTHING CO., St. Louis, Mo. Filed Nov. 5, 1928.

LASALLE

For Men's Wearing Apparel—Namely, Suits, Topcoats, and Overcoats.
Claims use since Jan. 1, 1928.

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Ser. No. 274,896. ULLMAN-JESSEL, INC., New York, N. Y. Filed Nov. 6, 1928.

Dough Boy DRESSES

The word "Dresses" appearing on the drawing is disclaimed from the trade-mark.
For Clothing—to wit, Women's Dresses.
Claims use since Sept. 1, 1928.

Ser. No. 275,115. INTERNATIONAL SHOE CO., St. Louis, Mo. Filed Nov. 10, 1928.

Aida Walker HEALTH SHOE

Exclusive use of the words "Health Shoe" is not claimed except in association with the rest of the mark.
For Boots and Shoes of Leather.
Claims use since Oct. 31, 1928.

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Ser. No. 275,139. THE TRIMBLE HAT COMPANY, Orange, N. J. Filed Nov. 10, 1928.

SPECTRO-TONE FELT

No registration rights are claimed in the word "Felt" except in association with the other features of the mark.
For Men's Hats.
Claims use since Oct. 9, 1928.

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## CLASS 40.

### Fancy Goods, Furnishings, and Notions.

Ser. No. 271,177. JULIEN FREISS, Lausanne, Switzerland. Filed Aug. 17, 1928.

Moncoiffeur

For Hair Wavers and Curlers, Nonelectrical.
Claims use since February, 1928.

Ser. No. 271,549. HOOK FAST BELT CO., INC., New York, N. Y. Filed Aug. 25, 1928.

PLATI-CROYD

For Belt Buckles Made of Brass and Plated with Chromium, and Belt-Buckle Sets Consisting of a Belt Buckle, a Watch Guard, and Chain, All Made of Brass and Plated with Chromium.
Claims use since January, 1927.

## CLASS 42.

### Knitted, Netted, and Textile Fabrics.

Ser. No. 263,058. WAXAHACHIE COTTON MILLS CO., Dallas and Waxahachie, Tex. Filed Mar. 12, 1928.

WAXAHACHIE TEXAS



No claim is made to the exclusive use of the words "Waxahachie" and "Texas" apart from the mark as shown in the drawing.
For Cotton Duck in the Piece.
Claims use since February, 1903.

Ser. No. 266,118. THE ATLANTIC MILLS, Olneyville, R. I. and Stottville, N. Y. Filed May 9, 1928.

SOLITE

For Piece Goods of Silk and Wool.
Claims use since latter part of December, 1927.

Ser. No. 268,798. NATIONAL BELLAS HESS CO. INC., New York, N. Y. Filed June 28, 1928.

CHARMAINE Lingerie Cloth

No claim is made to the exclusive use of the words "Lingerie Cloth" apart from the mark shown on the drawing.
For Cotton Piece Goods.
Claims use since about May 28, 1928.

Ser. No. 273,271. T. TAYLOR LIMITED, Bolton, England. Filed Oct. 2, 1928.

CLAIR-de-LUNE

For Bedspreads.
Claims use since Mar. 10, 1928.

Ser. No. 275,348. IRVING CALLMAN, New York, N. Y. Filed Nov. 15, 1928.

Fairy-Tale Prints

No registration rights are claimed in the word "Prints" except in association with the rest of the mark.
For Silk, Cotton, Silk and Cotton, Rayon, Rayon and Cotton, and Rayon and Silk Piece Goods.
Claims use since Oct. 1, 1928.

Ser. No. 275,355. HOLDEN-LEONARD COMPANY, New York, N. Y. Filed Nov. 15, 1928.

INSHALLAH

For Worsted and Woolen Textile Fabrics.
Claims use since about July 15, 1928.

Ser. No. 275,374. WAGER & HIRSCH, INC., New York, N. Y. Filed Nov. 15, 1928.

ANTARCTIC PRINTS

No registration rights are claimed in the word "Prints" except in association with the other features of the mark.
For Silk Piece Goods.
Claims use since Aug. 17, 1928.



## CLASS 44.

### Dental, Medical, and Surgical Appliances.

Ser. No. 238,757. VELDOWN COMPANY, INC., New York, N. Y. Filed Oct. 16, 1926.

VELDOWN

For Catamenial Bandages.
Claims use since Oct. 11, 1926.

Ser. No. 255,822. DR. REED'S VITALECTONE COMPANY, Stockton, Calif. Filed Oct. 8, 1927.

DR. REED'S VITALECTONE EXERCISE WITHOUT EFFORT

Exclusive right to the use of the words "Exercise without Effort" is disclaimed apart from the mark shown.
For Apparatus for the Application of Electricity to the Human Body.
Claims use since on or about Sept. 1, 1927.

Ser. No. 268,926. HALLIWELL-SHELTON ELECTRIC CORPORATION, New York, N. Y. Filed June 30, 1928.

SPEE-JAX

For Electric Hair Dryers.
Claims use since May 8, 1928.

Ser. No. 270,353. LEWIS L. SCOTT, St. Louis, Mo. Filed July 30, 1928.

SCOTT INCORPORATED HEALTH-GLO

For Exercising and Massaging Machines Which are Used Primarily for Therapeutic Purposes.
Claims use since July 1, 1928.

Ser. No. 271,053. KINGSLEY NOVELTY CO., Jamaica, N. Y. Filed Aug. 15, 1928.

KINGSLEY

For Babies' Rubber Transparent Nipples, Babies' Rubber and Bone Pacifiers, and Babies' Teething Rings.
Claims use since Jan. 18, 1925.

Ser. No. 271,178. JULIEN FREISS, Lausanne, Switzerland. Filed Aug. 17, 1928.

Le Vampire

No claim is made to the representation of a roller apart from the mark as shown.
For Resilient Roller for Massaging the Body.
Claims use since Jan. 18, 1926.

## CLASS 46.

### Foods and Ingredients of Foods.

Ser. No. 235,115. CHULA VISTA CITRUS ASSOCIATION, Chula Vista, Calif. Filed July 26, 1926.

SUNDIAL

For Fresh Citrus Fruits—Namely, Oranges, Lemons, Grapefruit.
Claims use since Jan. 1, 1916.

Ser. No. 247,943. FRANKLIN BAKER COMPANY, Hoboken, N. J. Filed Apr. 25, 1927.

VITAPACK

For Nuts in the Shell, Shelled Nuts, Roasted and Salted Nuts—Namely, Cocoanuts, Cashew Nuts, Walnuts, Pecans, Brazil Nuts, Peanuts, Filberts, Almonds, Pignolias, Pistachio Nuts.
Claims use since about Jan. 1, 1926.

Ser. No. 253,375. KINGAN & CO., INCORPORATED, Indianapolis, Ind. Filed Aug. 12, 1927. Under section 5b of the act of 1905 as amended in 1920.




For Fresh Meats (Pork), Cured Meats (Beef and Pork), Cooked Meats (Beef, Pork, and Lamb), Canned Meats (Beef, Pork, and Lamb), Salted Meats (Beef and Pork), Sausages, Lard, Oleomargarine, Butter, Eggs, and Dressed Poultry.

Claims use since 1877 on all articles mentioned except oleomargarine, butter, eggs, and dressed poultry; on oleomargarine since about Jan. 1, 1895; on butter since Jan. 1, 1913; on eggs since Jan. 1, 1922; and on dressed poultry since Nov. 1, 1925.

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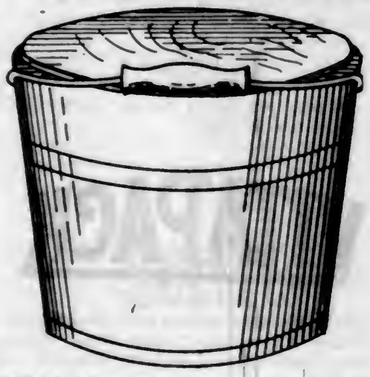
Ser. No. 260,243. R. SEELIG & HILLE, Dresden, Germany. Filed Jan. 17, 1928.




For Tea.
Claims use since 1888.

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Ser. No. 260,644. MAX AMS, INCORPORATED, New York, N. Y. Filed Jun. 25, 1928. Under 10-year proviso.



The pail is blue in color.
For Fruit Preserves Adapted for Use as Pie Fillings.
Claims use since December, 1894.

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Ser. No. 264,394. WILLIAM R. THOMAS, Los Angeles, Calif., assignor to Vegetable Products Corporation, Los Angeles, Calif. Filed Apr. 5, 1928.

VEGETIZED

For Bread, Wafers—Namely, Biscuits and Cookies.
Claims use since Feb. 21, 1928.

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Ser. No. 265,705. WILLIAM R. THOMAS, Los Angeles, Calif., assignor to Vegetable Products Corporation, Los Angeles, Calif. Filed Apr. 30, 1928.



For Bread, Wafers—Namely, Biscuits and Cookies.
Claims use since Feb. 21, 1928.

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Ser. No. 266,157. VAI BROS., doing business as California Medicinal Wine Co., Los Angeles, Calif. Filed May 9, 1928.

CALIFORNIA
PADRES

For Wine to Which Salt has been Added, Used as a Seasoning for Sauces and as a Flavoring for Meats, Etc.
Claims use since Feb. 1, 1928.

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Ser. No. 266,621. I. ROKEACH & SONS, INC., Brooklyn, N. Y. Filed May 18, 1928. Under section 5b of the act of 1905 as amended in 1920.

רזקח

The translation of the Hebrew word appearing on the drawing is "Rokeach."
For Fruit Preserves, Vegetable Fat; Salad Oil, a Cottonseed Product; Honey, and Cocoa.
Claims use since 1901.



Ser. No. 268,297. J. A. MEDINA COMPANY, New York, N. Y. Filed June 19, 1928.

L C

For Green Coffee.
Claims use since Sept. 1, 1927.

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Ser. No. 269,367. REICHARDT COCOA & CHOCOLATE CO. INC., doing business as Reichardt, New Brunswick, N. J. Filed July 10, 1928.

*For You*

For Candy.
Claims use since June 1, 1928.

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Ser. No. 269,445. MARGARET L. BURGESS, Washington, D. C. Filed July 12, 1928.




For Genuine Old English Chutney.
Claims use since Sept. 4, 1922.

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Ser. No. 270,140. MUTUAL STORES, INC., Oakland, Calif. Filed July 25, 1928.

MUTUAL



For Canned Evaporated Milk, Canned Vegetables, Canned Fruit, Canned Fish, Butter, Eggs, Bread, Ice Cream, Spices, Coffee.
Claims use since January, 1928.

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Ser. No. 270,330. GUION M. GEST, San Francisco, Calif. Filed July 30, 1928.

ELECTRO-KIST

For Electrically-Dehydrated Prunes, Apricots, and Walnuts.
Claims use since June 16, 1928.

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Ser. No. 270,963. GAEDKE AKTIENGESELLSCHAFT, Hamburg, Germany. Filed Aug. 13, 1928.

Nutrix

For Cacao and Cacao Products—Namely, Chocolate; Pralines, Fondants, and Bonbons; Cakes and Biscuits, Waffles, Macaroons, and Preserved Fruits.
Claims use since July 26, 1904.

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Ser. No. 271,365. SUTTER PACKING COMPANY, Mayfield, Calif. Filed Aug. 21, 1928.

*Blue Check*

The drawing is lined for the color blue.
For Canned Fruits.
Claims use since July 24, 1928.

Ser. No. 271,536. DIAMOND CRYSTAL SUGAR CO., INC., New York, N. Y. Filed Aug. 25, 1928.




No claim is made for the words "One, Pound, Net, Pure, Cane Crystals," and "Sugar" apart from the mark as shown.
For Sugar.
Claims use since June 8, 1928.

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Ser. No. 272,558. HALE-HALSELL COMPANY, McAlester, Okla. Filed Sept. 17, 1928.




PEABERRY

No claim is made to the word "Peaberry" apart from the mark as shown.
For Coffee.
Claims use since Dec. 15, 1927.

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Ser. No. 272,815. W. E. JACOBS CANDY CO., Chicago, Ill. Filed Sept. 22, 1928.




No claim is made to the notation "40 Bars" apart from the mark as shown.
For Candy.
Claims use since June 30, 1928.

Ser. No. 273,023. SUTTER PACKING CO., Mayfield, Calif. Filed Sept. 26, 1928.

Gold Check

For Canned Fruits.
Claims use since Aug. 15, 1928.

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Ser. No. 273,026. SUTTER PACKING CO., Mayfield, Calif. Filed Sept. 26, 1928.

SUNDOWN

For Canned Fruits.
Claims use since Aug. 20, 1928.

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Ser. No. 273,172. ALEXANDER POULTRY FARMS, INC., Caledonia, Wis. Filed Oct. 1, 1928.

AL-FA Eggs

Applicant makes no claim to the word "Eggs" apart from the mark shown on the drawing.
For Eggs.
Claims use since Mar. 12, 1928.

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Ser. No. 274,395. MILWAUKEE GRAINS & FEED COMPANY, Milwaukee, Wis. Filed Oct. 27, 1928.



For Horse and Dairy Feeds.
Claims use since Aug. 25, 1905.



Ser. No. 274,576. MARGARET L. SLACK, Providence, R. I. Filed Oct. 30, 1928.

M. L. S.

For a Dressing or Sauce for Use on Salads, Fish, Sea Food, Cold Meats, or Baked Beans.
Claims use since July 1, 1927.

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Ser. No. 274,634. J. N. COLLINS COMPANY, Minneapolis, Minn. Filed Nov. 1, 1928.

SHORTIES

For Candy.
Claims use since Aug. 1, 1928.

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Ser. No. 274,977. AUGUSTE FRANCOIS JACQUEMOUX, Miami, Fla. Filed Nov. 8, 1928.




The right to the exclusive use of the word "Pronounced" is disclaimed apart from the mark as shown in the drawing.
For Confections—Namely, Candies and Crystallized Fruits.
Claims use since November, 1924.

Ser. No. 275,098. JOHN M. BOUR, doing business as Central Milling Co., Toledo, Ohio. Filed Nov. 10, 1928.




For Wheat Flour.
Claims use since Aug. 18, 1928.

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Ser. No. 275,294. DAISY A. PENDERGAST, Los Angeles, Calif. Filed Nov. 14, 1928.

Besta Vol

For Bread.
Claims use since Oct. 1, 1928.

## CLASS 50.

### Merchandise Not Otherwise Classified.

Ser. No. 274,154. HAARTZ-MASON RUBBER MANUFACTURING COMPANY, Watertown, Mass. Filed Oct. 23, 1928.

PARABUCK

For Rubberized Fabrics.
Claims use since Oct. 5, 1928.

# TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

DECEMBER 25, 1928.

251,023. PREPARATION FOR USE IN GROWING HAIR. LAURA SUSAN CAHILL, doing business as Crowning Glory Manufacturing Company, Roanoke, Va.
Filed June 23, 1928. Serial No. 268,530. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,024. CHEMICAL PREPARATION FOR REMOVING WALL PAPER. HABERLAND MANUFACTURING COMPANY, Allwood, N. J.
Filed June 22, 1928. Serial No. 268,495. PUBLISHED OCTOBER 9, 1928. Class 6.

251,025. CHEMICAL PREPARATION FOR REMOVING WALL PAPER. HABERLAND MANUFACTURING COMPANY, Allwood, N. J.
Filed June 22, 1928. Serial No. 268,494. PUBLISHED OCTOBER 9, 1928. Class 6.

251,026. BOYS' DRESS SHIRTS, WORK SHIRTS, NEGLIGEE SHIRTS, BLOUSE SHIRTS, COLLARS, PANTS, SUITS, AND OVERALLS. HIGGINBOTHAM-BAILEY-LOGAN COMPANY, Dallas, Tex., and New York, N. Y.
Filed June 21, 1928. Serial No. 268,440. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,027. CHLORINATED LIME AND AMMONIA. GEORGE W. SIMMONS CORPORATION, New York, N. Y.
Filed June 20, 1928. Serial No. 268,397. PUBLISHED SEPTEMBER 11, 1928. Class 6.

251,028. COAL. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa.
Filed June 20, 1928. Serial No. 268,353. PUBLISHED AUGUST 28, 1928. Class 1.

251,029. COAL. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa.
Filed June 20, 1928. Serial No. 268,352. PUBLISHED AUGUST 28, 1928. Class 1.

251,030. COAL. CLOVER SPLINT COAL COMPANY, Pittsburgh, Pa.
Filed June 20, 1928. Serial No. 268,351. PUBLISHED AUGUST 28, 1928. Class 1.

251,031. WOMEN'S WEARING APPAREL—NAMELY, WOMEN'S DRESSES, COATS, AND UNDERWEAR OF KNITTED AND TEXTILE FABRIC, SWEATERS, WOMEN'S AND MISSES' HATS AND BLOUSES. MOSES BLUMBERG & SONS INC., New York, N. Y.
Filed June 19, 1928. Serial No. 268,267. PUBLISHED OCTOBER 9, 1928. Class 39.

251,032. HOSIERY AND KNIT AND WOVEN UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn.
Filed June 18, 1928. Serial No. 268,250. PUBLISHED OCTOBER 9, 1928. Class 39.

251,033. HOSIERY AND KNIT AND WOVEN UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. STRUTWEAR KNITTING COMPANY, Minneapolis, Minn.
Filed June 18, 1928. Serial No. 268,249. PUBLISHED OCTOBER 9, 1928. Class 39.

251,034. POULTRY, DAIRY, AND STOCK FEEDS. THE MCMILLEN CO., Fort Wayne, Ind.
Filed August 29, 1928. Serial No. 271,703. PUBLISHED OCTOBER 9, 1928. Class 46.

251,035. DOUGHNUTS. DAVIS STANDARD BREAD CO., INCORPORATED, Los Angeles, Calif.
Filed August 29, 1928. Serial No. 271,685. PUBLISHED OCTOBER 9, 1928. Class 46.

251,036. WHEAT FLOUR. THE MENNEL MILLING COMPANY, Toledo, Ohio.
Filed August 25, 1928. Serial No. 271,557. PUBLISHED OCTOBER 9, 1928. Class 46.

251,037. HOT-OIL SCALP TREATMENT. J. SCHANZENBACH & CO., INC., New York, N. Y.
Filed August 15, 1928. Serial No. 271,088. PUBLISHED OCTOBER 9, 1928. Class 6.

251,038. PREPARATION FOR THE TREATMENT OF ACHYLIA GASTRICA, ACHLORHYDIA, AND HYPOACIDITY. PITMAN-MOORE COMPANY, Indianapolis, Ind.
Filed August 15, 1928. Serial No. 271,081. PUBLISHED OCTOBER 9, 1928. Class 6.

251,039. EPSOM SALT. THE DRACKETT CHEMICAL COMPANY, Cincinnati, Ohio.
Filed August 13, 1928. Serial No. 270,960. PUBLISHED OCTOBER 9, 1928. Class 6.

251,040. COLLOIDAL IRON CACODYLATE. THE CUTTER LABORATORY, Berkeley, Calif.
Filed August 13, 1928. Serial No. 270,956. PUBLISHED OCTOBER 9, 1928. Class 6.

251,041. KNITTED FABRICS OF SILK, RAYON, AND MIXTURES OF THESE MATERIALS. TWENTIETH CENTURY RAYON TEXTILES, INC., New York, N. Y.
Filed August 11, 1928. Serial No. 270,899. PUBLISHED OCTOBER 9, 1928. Class 42.

251,042. SKIN CLEANSER AND TISSUE BUILDER IN THE NATURE OF A CREAM, LOTION, AND OINTMENT. B. M. SCHULENBERG, doing business as Swiss-Snow Laboratories, Chicago, Ill.
Filed August 10, 1928. Serial No. 270,862. PUBLISHED OCTOBER 9, 1928. Class 6.

251,043. WORK SHIRTS. ANNA STONE, doing business as Max Stone, Corona, N. Y.
Filed August 7, 1928. Serial No. 270,730. PUBLISHED OCTOBER 9, 1928. Class 39.

251,044. DRESS SHIRTS AND FLANNEL SHIRTS. BERNE MANUFACTURING COMPANY, Berne, Ind.
Filed August 6, 1928. Serial No. 270,624. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,045. CHEESE. GERBER & CO. INC., New York, N. Y.
Filed August 4, 1928. Serial No. 270,585. PUBLISHED OCTOBER 9, 1928. Class 46.

251,046. COATS OF VARIOUS KINDS FOR MEN AND WOMEN. PURITAN CLOTHING COMPANY, New York, N. Y.
Filed August 2, 1928. Serial No. 270,505. PUBLISHED OCTOBER 9, 1928. Class 39.

251,047. CHILDREN'S AND INFANTS' UNDERWEAR AND UNDERGARMENTS—NAMELY, KNITTED VESTS, KNITTED PANTIES, KNITTED FRENCH-STYLE STEP-INS, KNITTED UNION SUITS, KNITTED WAISTS, KNITTED PANTS, AND KNITTED SLEEPERS. EARNSHAW KNITTING COMPANY, Newton, Mass.
Filed August 2, 1928. Serial No. 270,472. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,048. MEN'S SUITS COMPRISING COATS, VESTS, TROUSERS, AND KNICKERS AND MEN'S TOPCOATS AND OVERCOATS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed August 1, 1928. Serial No. 270,426. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,049. MEN'S SUITS COMPRISING COATS, VESTS, TROUSERS, AND KNICKERS AND MEN'S TOPCOATS AND OVERCOATS. HICKEY-FREEMAN CO., Rochester, N. Y.
Filed August 1, 1928. Serial No. 270,425. PUBLISHED OCTOBER 9, 1928. Class 39.





251,050. MEN'S UNDERWEAR OF KNITTED OR TEXTILE FABRICS AND PAJAMAS. PHILLIPS-JONES CORPORATION, New York, N. Y.
Filed July 31, 1928. Serial No. 270,390. PUBLISHED OCTOBER 9, 1928. Class 39.

251,051. COTTON BLANKET BATH ROBES; WOOLEN, FLANNEL, AND RAYON BATH ROBES. ARRO ROBE CO., Philadelphia, Pa.
Filed July 31, 1928. Serial No. 270,868. PUBLISHED OCTOBER 2, 1928. Class 39.

251,052. BOYS' AND MEN'S COATS, VESTS, TROUSERS, TOPCOATS, AND OVERCOATS. WIENER & KATZ, New York, N. Y.
Filed July 30, 1928. Serial No. 270,362. PUBLISHED OCTOBER 9, 1928. Class 39.

251,053. MEN'S OVERALLS. UNIVERSAL OVERALLS COMPANY, Chicago, Ill.
Filed July 30, 1928. Serial No. 270,359. PUBLISHED OCTOBER 9, 1928. Class 39.

251,054. WOMEN'S AND MISSES' DRESSES. ARTHUR COHEN DRESS CORPORATION, New York, N. Y.
Filed July 28, 1928. Serial No. 270,280. PUBLISHED OCTOBER 9, 1928. Class 39.

251,055. ICE-CREAM CONES, PRETZELS, CAKE, PIE, POTATO CHIPS, AND NOODLES. AMERICAN CONE & PRETZEL COMPANY, Philadelphia, Pa.
Filed July 28, 1928. Serial No. 270,272. PUBLISHED OCTOBER 9, 1928. Class 46.

251,056. WORK AND DRESS SHIRTS, OVERALLS, TROUSERS, HOSIERY, AND UNDERWEAR OF KNITTED AND TEXTILE FABRICS FOR MEN, WOMEN, AND CHILDREN. E. W. KING COMPANY, Bristol, Tenn.
Filed July 27, 1928. Serial No. 270,250. PUBLISHED OCTOBER 9, 1928. Class 39.

251,057. HOSIERY. CHARLES F. BERG, Portland, Oreg.
Filed July 27, 1928. Serial No. 270,228. PUBLISHED OCTOBER 9, 1928. Class 39.

251,058. PLAIN AND SELF-RISING FLOURS. THE PAGE MILLING CO., Luray, Va.
Filed July 26, 1928. Serial No. 270,198. PUBLISHED OCTOBER 9, 1928. Class 46.

251,059. LADIES', MISSES', AND WOMEN'S DRESSES AND COATS. BEN ROTHBLUM, New York, N. Y.
Filed July 21, 1928. Serial No. 269,984. PUBLISHED OCTOBER 2, 1928. Class 39.

251,060. SOLVENT CLARIFIER FOR USE IN THE CLEANING TRADE. THE J. B. FORD COMPANY, Wyandotte, Mich.
Filed June 23, 1928. Serial No. 268,537. PUBLISHED OCTOBER 9, 1928. Class 6.

251,061. MEN'S AND BOYS' OUTER CLOTHING—NAMELY, OVERCOATS, COATS, RAINCOATS, SUITS, SWEATERS, TROUSERS, KNICKERS, AND CAPS. KRESGE DEPARTMENT STORE CORPORATION, Newark, N. J.
Filed July 21, 1928. Serial No. 269,964. PUBLISHED OCTOBER 9, 1928. Class 39.

251,062. ONE-PIECE OVERALL UNION SUITS FOR BOYS. BOY-TOGS MANUFACTURING COMPANY, Dallas, Tex.
Filed July 21, 1928. Serial No. 269,937. PUBLISHED OCTOBER 9, 1928. Class 39.

251,063. MEN'S, WOMEN'S, AND CHILDREN'S KNIT UNDERWEAR. ANTHONY BROTHERS INCORPORATED, also doing business as Biltmore Manufacturing Co., San Francisco, Calif.
Filed July 21, 1928. Serial No. 269,934. PUBLISHED OCTOBER 9, 1928. Class 39.

251,064. CHILDREN'S OUTER SUITS. J. TARTIKOFF & SONS, New York, N. Y.
Filed July 19, 1928. Serial No. 269,869. PUBLISHED OCTOBER 2, 1928. Class 39.

251,065. CLOTH LININGS FOR FUR COATS. HENBERT SILK CO., New York, N. Y.
Filed July 17, 1928. Serial No. 269,756. PUBLISHED OCTOBER 9, 1928. Class 39.

251,066. COUGH MEDICINE. LEO W. STALL, also doing business as H. E. B. Laboratory, Buffalo, N. Y.
Filed July 16, 1928. Serial No. 269,696. PUBLISHED OCTOBER 9, 1928. Class 6.

251,067. BUTTER. CONSUMERS BUTTER CO., INC., Minneapolis, Minn.
Filed July 16, 1928. Serial No. 269,637. PUBLISHED OCTOBER 9, 1928. Class 46.

251,068. SYNTHETIC OR CHEMICALLY-PREPARED RESINS. THE RESINOUS PRODUCTS & CHEMICAL COMPANY, Philadelphia, Pa.
Filed July 16, 1928. Serial No. 269,622. PUBLISHED OCTOBER 2, 1928. Class 6.

251,069. LINIMENTS FOR RELIEVING THE PAINS OF MUSCULAR RHEUMATISM, LUMBAGO, GOUT, SCIATICA, NEURITIS, STIFF NECK, SORE THROAT CAUSED BY CONGESTION DUE TO EXPOSURE, FATIGUED SORE MUSCLES, TIRED ACHING FEET, STIFF JOINTS, STRAINED LIGAMENTS, SPRAINS, AND BRUISES. ALEXANDER NAZAROFF, doing business as Colit Laboratories, New York, N. Y.
Filed July 14, 1928. Serial No. 269,598. PUBLISHED OCTOBER 9, 1928. Class 6.

251,070. PHARMACEUTICAL PREPARATIONS FOR THE TREATMENT OF GONORRHEA. A.-S. GEA (FARMACEUTISK-KEMISK FABRIK), Copenhagen, Denmark.
Filed July 14, 1928. Serial No. 269,566. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,071. SLEEPING GARMENTS FOR CHILDREN—TO WIT, ONE-PIECE SUITS PROVIDED WITH FEET. JAMES T. JOHNSON, Jr., Scranton, Pa.
Filed July 13, 1928. Serial No. 269,528. PUBLISHED OCTOBER 2, 1928. Class 39.

251,072. MEN'S, WOMEN'S, AND CHILDREN'S UNDERWEAR OF KNITTED OR WOVEN FABRIC. CHELTENHAM KNITTING CO., Philadelphia, Pa.
Filed July 13, 1928. Serial No. 269,509. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,073. WOMEN'S APRONS OF TEXTILE FABRICS. SOLOMON MFG. CO., St. Louis, Mo.
Filed July 12, 1928. Serial No. 269,488. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,074. EMULSION OF LIQUID PETROLATUM WITH AGAR FOR MEDICINAL USE. PARKE, DAVIS & COMPANY, Detroit, Mich.
Filed July 7, 1928. Serial No. 269,252. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,075. LADIES', MISSES', AND CHILDREN'S COATS. HILLER BROS. AND HILLER, New York, N. Y.
Filed July 7, 1928. Serial No. 269,237. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,076. MEN'S NECKTIES OF ALL SHAPES AND FORMS, INCLUDING BOW TIES AND BAND BOWS, AND MUFFLERS. MAX GELLES, doing business as Gelles Neckwear Co., Boston, Mass.
Filed July 7, 1928. Serial No. 269,233. PUBLISHED OCTOBER 2, 1928. Class 39.

251,077. MIXTURE OF DRIED AND COARSELY-GROUND ROOTS, HERBS, AND BARKS OF MEDICINAL VALUE FOR USE IN MAKING A TONIC AND LAXATIVE TEA. ROCCO TRILLO, doing business as Monaderb Company, North Merchantville, N. J.
Filed July 6, 1928. Serial No. 269,211. PUBLISHED OCTOBER 9, 1928. Class 6.

251,078. PREPARATION FOR USE IN THE TREATMENT OF DYSPEPSIA. ADDIE E. SMITH, doing business as Smith Bros., Berkeley and Oakland, Calif.
Filed July 6, 1928. Serial No. 269,209. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,079. STOMAID, A STOMACH PREPARATION. CHARLES ARTHUR HERRON, doing business as The Stomaid Laboratories, Wichita, Kans.
Filed July 6, 1928. Serial No. 269,189. PUBLISHED OCTOBER 9, 1928. Class 6.

251,080. MEDICINE USED IN THE TREATMENT OF CRAMPS, FLUX, DYSENTERY, AND COLITIS. CHARLES S. THROGMORTON, doing business as Bis-Ark Company, Brinkley, Ark.
Filed July 5, 1928. Serial No. 269,161. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,081. LADIES' FELT HAT BODIES. THE TUXEDO HAT BODY CORPORATION, New York, N. Y.
Filed June 6, 1928. Serial No. 267,617. PUBLISHED AUGUST 21, 1928. Class 39.

251,082. GASTROINTESTINAL ANTISEPTIC. BURROUGH BROTHERS MANUFACTURING COMPANY, Cleveland, Ohio, and Baltimore, Md.
Filed June 6, 1928. Serial No. 267,529. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,083. CANNED APRICOTS, PEARS, AND PEACHES. LANDAUER & Co., London, England.
Filed May 25, 1928. Serial No. 266,998. PUBLISHED SEPTEMBER 25, 1928. Class 46.

251,084. CHEMICAL DYE AIDS—NAMELY, MOISTENING PREPARATIONS, THREAD AND FIBRE PROTECTING PREPARATIONS, THREAD AND FIBRE PENETRATING PREPARATIONS, SMOOTHING PREPARATIONS, TANNING PREPARATIONS, AND PREPARATIONS FOR DISSOLVING DYESTUFFS. H. TH. BÖHME A. G., Chemnitz, Germany.
Filed May 22, 1928. Serial No. 266,786. PUBLISHED OCTOBER 9, 1928. Class 6.

251,085. WOMEN'S AND MISSES' DRESSES. B. F. SCHLESINGER & SONS, INC., New York, N. Y.
Filed May 16, 1928. Serial No. 266,484. PUBLISHED OCTOBER 9, 1928. Class 39.

251,086. MEN'S, WOMEN'S, AND CHILDREN'S RAINCOATS. NEW YORK MACKINTOSH CLOTHING COMPANY, New York, N. Y.
Filed May 16, 1928. Serial No. 266,474. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,087. MEN'S UNDERWEAR—NAMELY, DRAWERS AND UNION SUITS. CARMI MANUFACTURING COMPANY, INC., Carmi, Ill.
Filed May 14, 1928. Serial No. 266,354. PUBLISHED OCTOBER 9, 1928. Class 39.

251,088. EXTERNAL PREPARATION USED AS A HEALING ANTISEPTIC FOR SKIN IRRITATIONS, CUTS, AND BRUISES. CHARLES V. COLLIER, doing business as The Pynoil Company, St. Petersburg, Fla.
Filed May 9, 1928. Serial No. 266,126. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,089. PHARMACEUTICAL PREPARATION FOR DANDRUFF AND LOSS OF HAIR. MAX BAKST, doing business as Strobak Laboratories, New York, N. Y.
Filed April 6, 1928. Serial No. 264,413. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,090. MEN'S DRAWERS, TROUSERS, SHIRTS, ETC. I. & R. MORLEY, London, England.
Filed March 30, 1928. Serial No. 264,041. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,091. PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, NEURALGIA, SWELLINGS, INFLAMMATION, COMMON SORE THROAT, COLD IN CHEST, TENDER FEET, SPRAINS, BRUISES, AND SIMILAR AILMENTS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed March 23, 1928. Serial No. 263,665. PUBLISHED OCTOBER 9, 1928. Class 6.

251,092. PREPARATION FOR THE TREATMENT OF RHEUMATISM, LUMBAGO, NEURALGIA, SWELLINGS, INFLAMMATION, COMMON SORE THROAT, COLD IN CHEST, TENDER FEET, SPRAINS, BRUISES, AND SIMILAR AILMENTS. THE OMEGA CHEMICAL COMPANY, New York, N. Y.
Filed March 23, 1928. Serial No. 263,664. PUBLISHED OCTOBER 9, 1928. Class 6.

251,093. FOUNDATION GARMENTS—NAMELY, CORSETS, GIRDLES, BRASSIÈRES, GARMENTS IN NATURE OF CORSETS AND COMMONLY KNOWN AS STEP-INS, COMBINATIONS MADE UP OF A GIRDLE AND BRASSIÈRE UNITED, AND BANDEAUX. THE L. T. JENNINGS COMPANY, INC., Saginaw, Mich.
Filed March 23, 1928. Serial No. 263,654. PUBLISHED SEPTEMBER 18, 1928. Class 39.

251,094. INSECTICIDES. CLARK POULTRY RESEARCH LABORATORIES, INC., Cleveland, Ohio.
Filed March 23, 1928. Serial No. 263,640. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,095. DYES AND DYESTUFFS, CHEMICAL PRODUCTS FOR MAKING DYEINGS AND COLORINGS FAST TO RUBBING, MORDANTS, COMPOSITIONS FOR WATERPROOFING DYES AND COLORS AND YARNS AND FABRICS, BLEACHING COMPOSITIONS, SIZING AND FINISHING MATERIALS FOR PAPER AND TEXTILE FABRICS, AND STARCH PREPARATIONS FOR SIZING AND SIMILAR PURPOSES. CHEMISCHE FABRIK STOCKHAUSEN & CIE., Krefeld, Germany.
Filed March 20, 1928. Serial No. 263,459. PUBLISHED OCTOBER 9, 1928. Class 6.

251,096. PREPARATION FOR TREATING ROUP IN CHICKENS. ELLA MAY LONG, doing business as MRS. S. F. LONG, Chapel Hill, N. C.
Filed March 15, 1928. Serial No. 263,220. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,097. PIG AND HOG FEED. UNITED BI-PRODUCTS COMPANY, Kansas City, Mo.
Filed March 14, 1928. Serial No. 263,187. PUBLISHED OCTOBER 9, 1928. Class 46.

251,098. HOSIERY. BERKSHIRE KNITTING MILLS, Reading, Pa.
Filed February 24, 1928. Serial No. 262,148. PUBLISHED AUGUST 21, 1928. Class 39.

251,099. MEN'S, WOMEN'S, BOYS', AND GIRLS' SWEATERS AND BATHING SUITS. EVERLASTIK KNITTING MILLS, INC., Philadelphia, Pa.
Filed February 16, 1928. Serial No. 261,746. PUBLISHED OCTOBER 2, 1928. Class 39.

251,100. CHEESE. DANIEL A. CONNELL CO., Chicago, Ill.
Filed February 9, 1928. Serial No. 261,422. PUBLISHED JUNE 5, 1928. Class 46.

251,101. LINIMENT FOR RHEUMATISM, GOUT, NEURALGIA, LUMBAGO, COLDS, SPRAINS, BRUISES, CRAMPS IN THE STOMACH, AND SIMILAR AILMENTS. F. AD. RICHTER & CO. OF NEW YORK, Brooklyn, N. Y., now, by change of name, Fadrich Corporation, assignor to F. Ad. Richter & Co. Inc., Brooklyn, N. Y., a Corporation of New York.
Filed June 19, 1928. Serial No. 268,308. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,102. HOSIERY. RUFFUS W. SCOTT COMPANY, New York, N. Y.
Filed January 27, 1928. Serial No. 260,756. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,103. FACE POWDER, TALCUM POWDER, ROUGES, LIP STICKS, FACE CREAM, SKIN LOTIONS, AND PERFUMES. MILTON CAHN COMPANY, INC., New York, N. Y.
Filed January 16, 1928. Serial No. 260,161. PUBLISHED OCTOBER 9, 1928. Class 6.



251,104. LADIES' HOSIERY. NEW HAVEN SILK HOSIERY CO., New Haven, Ind.
Filed January 7, 1928. Serial No. 259,817. PUBLISHED OCTOBER 2, 1928. Class 39.

251,105. MEN'S AND BOYS' DRESS AND NEGLIGEE, SHIRTS AND WOMEN'S AND MISSES' COATS, SUITS, AND DRESSES. L. FEIBLEMAN & CO., INC., New Orleans, La.
Filed December 19, 1927. Serial No. 259,109. PUBLISHED OCTOBER 9, 1928. Class 39.

251,106. SERUM FOR TREATING SYPHILIS. FRANCISCO JAUREGUI and LUIS LANCELOTTI, Buenos Aires, Argentina.
Filed November 25, 1927. Serial No. 258,028. PUBLISHED SEPTEMBER 25, 1928. Class 6.

251,107. PILLS FOR ILLS RELATED TO THE LIVER AND DIGESTIVE AND ELIMINATIVE TRACTS, INCLUDING HEADACHE, SCROFULA, DROPSY, BILE, TORPIDITY, CONSTIPATION, DYSPEPSIA, SLUGGISHNESS, AND GIDDINESS. STEPHEN HERBERT PARKINSON, doing business as R. Parkinson & Sons, Burnley, England.
Filed November 8, 1927. Serial No. 257,250. PUBLISHED MAY 8, 1928. Class 6.

251,108. HAND AND GENERAL PURPOSE SOAP. IRA P. HUFF, Elm Grove, Wheeling, W. Va.
Filed October 20, 1927. Serial No. 256,321. PUBLISHED DECEMBER 13, 1927. Class 4.

251,109. SKIN CREAMS, NAIL POLISH, AND REMOVER. ACME LABORATORIES, New York, N. Y.
Filed October 5, 1927. Serial No. 255,621. PUBLISHED AUGUST 28, 1928. Class 6.

251,110. FACE POWDER. KEYSTONE LABORATORIES, Memphis, Tenn.
Filed September 19, 1927. Serial No. 254,918. PUBLISHED OCTOBER 9, 1928. Class 6.

251,111. SILK MUFFLERS AND SILK NECKTIES. GUEST NECKWEAR COMPANY, INC., Rochester, N. Y.
Filed August 27, 1927. Serial No. 254,036. PUBLISHED OCTOBER 9, 1928. Class 39.

251,112. MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY. WILLIAM T. TONNER, INC., Lansdale, Pa.
Filed May 31, 1927. Serial No. 249,823. PUBLISHED FEBRUARY 21, 1928. Class 39.

251,113. CHILDREN'S CAPS, WINDSOR TIES FOR CHILDREN, CORSETS, CHILDREN'S SHOES, ETC. S. BLECHMAN & SONS, INC., New York, N. Y.
Filed April 11, 1927. Serial No. 247,248. PUBLISHED AUGUST 23, 1927. Class 39.

251,114. LADIES' AND MISSES' CLOAKS, CAPES, SUITS, COATS, AND DRESSES, THE LATTER BEING MADE OF MATERIALS OTHER THAN KNITTED MATERIAL. SAMUEL GOLDBERG, Cincinnati, Ohio.
Filed February 3, 1927. Serial No. 243,756. PUBLISHED OCTOBER 2, 1928. Class 39.

251,115. CHILDREN'S AND INFANTS' BUNTINGS AND SACQUES. IDEAL BATH ROBE CO. INC., Brooklyn, N. Y.
Filed February 2, 1927. Serial No. 243,704. PUBLISHED OCTOBER 9, 1928. Class 39.

251,116. LOTIONS, CREAMS, AND POWDERS ALL FOR USE AFTER SHAVING. PAUL PETER MÜLHENS, doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany.
Filed December 29, 1926. Serial No. 242,098. PUBLISHED OCTOBER 9, 1928. Class 6.

251,117. GLOVES OF LEATHER, SILK, OR COTTON OF KNITTED OR TEXTILE FABRIC OR COMBINATIONS THEREOF. THE WILLIAM HENGERER COMPANY, Buffalo, N. Y.
Filed December 27, 1926. Serial No. 242,004. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,118. CLOTHING—NAMELY, SHOES MADE OF COMBINATIONS OF LEATHER AND FABRIC. ZION'S CO-OPERATIVE MERCANTILE INSTITUTION, Salt Lake City, Utah.
Filed December 11, 1926. Serial No. 241,365. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,119. HOSIERY. GOTHAM SILK HOSIERY CO. INC., New York, N. Y.
Filed November 2, 1926. Serial No. 239,579. PUBLISHED SEPTEMBER 25, 1928. Class 39.

251,120. BREAD. FISCHER BAKING CO., Newark, N. J.
Filed October 1, 1926. Serial No. 238,014. PUBLISHED APRIL 24, 1928. Class 46.

251,121. OVERALLS, WORK AND NEGLIGEE SHIRTS, PANTS, JUMPERS, AND UNIONALLS. THE BAYLY-UNDERHILL MFG. CO., Denver, Colo.
Filed December 19, 1925. Serial No. 224,893. PUBLISHED MARCH 2, 1926. Class 39.

251,122. PHONOGRAPHS AND PHONOGRAPH RECORDS. GRIGSBY-GRUNOW COMPANY, Chicago, Ill.
Filed July 5, 1928. Serial No. 269,114. PUBLISHED SEPTEMBER 18, 1928. Class 36.

251,123. SHIRTS—NAMELY, DRESS, NEGLIGEE, SPORT SHIRTS AND SHIRTS MADE TO ORDER. WHITE SWAN SHIRT COMPANY, Chicago, Ill.
Filed July 2, 1928. Serial No. 269,010. PUBLISHED OCTOBER 9, 1928. Class 39.

251,124. MIXED FEED, HORSE FEED, HORSE AND MULE FEED, GRIT, BARLEY CHOP, DAIRY FEED, CHICK FATTENER, CHICK STARTER AND GROWER, EGG MASH, CORN FEED MEAL, GROUND OATS, GROUND KAFFIR, RYE CHOP, AND PIGEON FEED. THE PITTSBURG ELEVATOR CO., Pittsburg, Kans.
Filed June 30, 1928. Serial No. 268,936. PUBLISHED OCTOBER 9, 1928. Class 46.

251,125. DOUGHNUT MIXTURE. DOUGHNUT MACHINE CORPORATION, New York, N. Y.
Filed June 29, 1928. Serial No. 268,854. PUBLISHED OCTOBER 9, 1928. Class 46.

251,126. HERBS OR TEA FOR STOMACH TROUBLE. LOUIS J. ROSENBERG, New York, N. Y.
Filed June 25, 1928. Serial No. 268,632. PUBLISHED SEPTEMBER 11, 1928. Class 6.

251,127. NECKWEAR AND MUFFLERS, NECKTIES, AND COLLARS. M. & H. BLOCK CO., New York, N. Y.
Filed June 26, 1928. Serial No. 268,672. PUBLISHED OCTOBER 9, 1928. Class 39.

251,128. OINTMENT AND SALVE FOR BURNS, CHAFING, NEURALGIA, HEMORRHOIDS, INSECT BITES, BRUISES, CUTS, SHINGLES, ACNE, ECZEMA, TOOTHACHE, SUNBURNS, SCALDS, ITCHING, BLISTERS, ABRASIONS, AND BROKEN OR INJURED SKIN SURFACES. NEV CHEMICAL CO., Brooklyn, N. Y.
Filed June 23, 1928. Serial No. 268,556. PUBLISHED SEPTEMBER 25, 1928. Class 6.

# TRADE-MARK REGISTRATIONS RENEWED

31,831. OLIVE OIL, ESSENTIAL OILS, SALAD OIL, AND SEED OILS. Registered August 2, 1898. GEORGE LUEDERS & CO., New York, N. Y., and Chicago, Ill. Renewed August 2, 1928, to George Lueders & Co., New York, N. Y., a Corporation of New York, assignee.

32,121. GLOVES. Registered November 8, 1898. FOWNES BROTHERS & CO., London, England. Renewed November 8, 1928, to Fownes Brothers & Co. Incorporated, New York, N. Y., a Corporation of New York, assignee.

32,136. CERTAIN NAMED MEDICAL COMPOUNDS. Registered November 8, 1898. THE WEAVER-MARKEL CHEMICAL COMPANY, Union Bridge, Md. Renewed November 8, 1928, to Charles D. Routzahn, Mount Airy, Md., successor.

32,318. CERTAIN NAMED MEDICINAL COMPOUNDS AND ARTICLES. Registered January 3, 1899. EDWARD WUNDERLICH, New Orleans, La. Renewed January 3, 1929.

32,438. SODA ASH, BICARBONATE OF SODA, AND CAUSTIC SODA. Registered January 31, 1899. MICHIGAN ALKALI COMPANY, Wyandotte, Mich., a Corporation of Michigan. Renewed January 31, 1929.

32,451. CHEMICAL AND PHARMACEUTICAL PREPARATIONS. Registered January 31, 1899. CHEMISCHE FABRIK VON HEYDEN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Radebeul, Germany. Renewed January 31, 1929, to Heyden Chemical Corporation, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

32,452. CHEMICAL AND PHARMACEUTICAL PREPARATIONS. Registered January 31, 1899. CHEMISCHE FABRIK VON HEYDEN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Radebeul near Dresden, Germany. Renewed January 31, 1929, to Heyden Chemical Corporation, New York, N. Y., a Corporation of New York, assignee by mesne assignments.

32,590. VARNISHES, JAPANS, COLORS, AND FILLING UP. Registered March 14, 1899. NOBLES & HOARE. Renewed March 14, 1929, to Nobles & Hoare Ltd., London, England, a Corporation of Great Britain, assignee.

32,813. CONDENSED MILK. Registered May 2, 1899. HENRI NESTLÉ, London, England; Christiania, Norway; and Vevey, Switzerland. Renewed May 2, 1929, to Nestle's Food Company, Inc., New York, N. Y., a Corporation of New York, assignee by mesne assignments.

70,823. HORSESHOE CALKS. Registered October 6, 1908. THE WILLIAMS DROP FORGING COMPANY, Scranton, Pa., a Corporation of Pennsylvania. Renewed October 6, 1928.

71,200. CERTAIN RUBBER GOODS. Registered November 10, 1908. HANNOVERSCHE GUMMI-KAMM-COMPAGNIE ACTIEN-GESELLSCHAFT, Hanover-Limmer, Germany. Renewed November 10, 1928, to Hanover Rubber Co. "Excelsior" Inc., New York N. Y., a Corporation of New York, assignee.

71,230. MEDICATED LOZENGES FOR COUGHS. Registered November 10, 1908. HENRY THAYER & COMPANY. Renewed November 10, 1928, to Henry Thayer & Co. Inc., Cambridge, Mass., a Corporation of Massachusetts, assignee.

71,552. A LIQUEUR CALLED BENEDICTINE. Registered December 1, 1908. SOCIÉTÉ ANONYME DE LA DISTILLERIÉ DE LA LIQUEUR BÉNÉDICTINE DE L'ABBAYE DE FÉCAMP. Renewed December 1, 1928, to Societe Anonyme De La Benedictine, Distillerie De La Liqueur De L'Ancienne Abbaye De Fecamp, Fecamp, France, a Corporation of France, successor.



71,553. A LIQUEUR CALLED BENEDICTINE. Registered December 1, 1908. SOCIÉTÉ ANONYME DE LA DISTILLERIÉ DE LA LIQUEUR BÉNÉDICTINE DE L'ABBAYE DE FÉCAMP. Renewed December 1, 1928, to Societe Anonyme De La Benedictine, Distillerie De La Liqueur De L'Ancienne Abbaye De Fecamp, Fecamp, France, a Corporation of France, successor.

71,554. A LIQUEUR CALLED BENEDICTINE. Registered December 1, 1908. SOCIÉTÉ ANONYME DE LA DISTILLERIÉ DE LA LIQUEUR BÉNÉDICTINE DE L'ABBAYE DE FÉCAMP. Renewed December 1, 1928, to Societe Anonyme De La Benedictine, Distillerie De La Liqueur De L'Ancienne Abbaye De Fecamp, Fecamp, France, a Corporation of France, successor.

71,933. LADIES' AND CHILDREN'S LEATHER SHOES. Registered December 22, 1908. JAMES E. ADAMS, Boston, Mass. Renewed December 22, 1928.

72,123. CANNED PEAS. Registered January 5, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed January 5, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

72,124. CANNED PEAS. Registered January 5, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed January 5, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

72,285. WRITING INK. Registered January 12, 1909. L. E. WATERMAN COMPANY, New York, N. Y., a Corporation of New York. Renewed January 12, 1929.

72,286. WRITING INK. Registered January 12, 1909. L. E. WATERMAN COMPANY, New York, N. Y., a Corporation of New York. Renewed January 12, 1929.

72,380. LUBRICATING GREASES AND OILS. Registered January 19, 1909. NEW YORK LUBRICATING OIL COMPANY, New York, N. Y., a Corporation of New York. Renewed January 19, 1929.

72,423. SOLE AND UPPER LEATHER AND TANNED HIDES. Registered January 26, 1909. B. FRANK & SONS, New York, N. Y. Renewed January 26, 1929, to Lindenold Sole Leather Co. Inc., Newark, N. J., a Corporation of New Jersey, assignee by mesne assignments.

72,472. REMEDIES FOR CERTAIN DISEASES. Registered January 26, 1909. ALICE PERSON. Renewed January 26, 1929, to Rufus M. Person, Charlotte, N. C., assignee.

72,490. COLORED WOVEN SHIRTING FABRICS. Registered January 26, 1909. MASSACHUSETTS COTTON MILLS, Lowell, Mass. Renewed January 26, 1929, to Pepperell Manufacturing Company, Boston, Mass., a Corporation of Massachusetts, assignee.

72,605. PREPARATIONS OF HYDROCARBON CONTAINING SULFUR. Registered February 9, 1909. ICHTHYOL GESELLSCHAFT CORDES, HERMANNI & CO., Hamburg, Germany. Renewed February 9, 1929, to The Ichthyol Co., Rahway, N. J., a Corporation of New Jersey, assignee.

72,693. CANNED PEAS AND CANNED CORN. Registered February 9, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed February 9, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

72,694. CANNED PEAS, CANNED BEANS, AND CANNED CORN. Registered February 9, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed February 9, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.



72,695. CANNED PEAS, CANNED CORN, AND CANNED TOMATOES. Registered February 9, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed February 9, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

72,916. WHEAT FLOUR. Registered March 2, 1909. WASHBURN CROSBY COMPANY. Renewed March 2, 1929, to General Mills, Inc., Minneapolis, Minn., a Corporation of Delaware, assignee.

73,121. CANNED PEAS, CORN, AND TOMATOES. Registered March 16, 1909. WAUKESHA CANNING CO., Waukesha, Wis. Renewed March 16, 1929, to The J. B. Inderrieden Co., Chicago, Ill., a Corporation of Illinois, assignee by mesne assignments.

73,139. BEER. Registered March 16, 1909. M. B. FOSTER & SONS, LIMITED. Renewed March 16, 1929, to M. B. Foster & Sons, Limited, London, England, a Corporation of Great Britain, assignee.

73,145. WRITING PENS. Registered March 16, 1909. TURNER AND HARRISON PEN MANUFACTURING COMPANY. Renewed March 16, 1929, to The Turner & Harrison Pen Manufacturing Company, Inc., Philadelphia, Pa., a Corporation of Pennsylvania, successor.

73,181. CERTAIN FOODS. Registered March 23, 1909. PEEK, FREAN & CO., LIMITED, London, England, a Corporation of Great Britain. Renewed March 23, 1929.

73,198. CALCIMINE. Registered March 30, 1909. THE MURALO COMPANY, New York, N. Y. Renewed March 30, 1929, to The Muralo Company, Inc., New Brighton, N. Y., a Corporation of New York, assignee.

73,240. SAUSAGE. Registered April 6, 1909. KRETSCHMAR SAUSAGE MANUFACTURING COMPANY, St. Louis, Mo. Renewed April 6, 1929.

73,291. CIGARS. Registered April 6, 1909. GARCIA & VEGA, New York, N. Y. Renewed April 6, 1929.

73,302. AN INSECTICIDE AND VERMIN DESTROYER. Registered April 6, 1909. SAMUEL SCHWARZ. Renewed April 6, 1929, to Schwarz Druggists, Inc., Newark, N. J., a Corporation of New Jersey, successor.

73,405. PRINTING INK. Registered April 20, 1909. THE AULT & WIBORG CO., Cincinnati, Ohio, a Corporation of Ohio. Renewed April 20, 1929.

73,474. A SPECIFIC FOR CERTAIN DISEASES. Registered April 20, 1909. HARRY MATUSOW, Philadelphia, Pa. Renewed April 20, 1929.

73,478. A DISINFECTANT. Registered April 20, 1909. PEARSON'S ANTISEPTIC CO. LIMITED, London, England. Renewed April 20, 1929, to The Creolin Co., Rahway, N. J., a Corporation of New Jersey, assignee.

73,551. WOVEN LABELS. Registered April 27, 1909. ALEXANDER L. KAHN. Renewed April 27, 1929, to Alkahn Silk Label Co. Inc., New York, N. Y., a Corporation of New York, assignee.

73,618. PERFUMES, TOILET CREAM, TOILET WATER, HAIR TONIC, AND FACE POWDER. Registered May 4, 1909. FREDERICK STEARNS & CO., Detroit, Mich., a Corporation of Michigan. Renewed May 4, 1929.

73,654. ABSORBENT COTTON. Registered May 4, 1909. UNITED DRUG COMPANY. Renewed May 4, 1929, to United Drug Company, Boston, Mass., a Corporation of Delaware, assignee by mesne assignments.

73,658. LOCKS. Registered May 4, 1909. THE E. T. FRAIM LOCK COMPANY, Lancaster, Pa., a Corporation of Pennsylvania. Renewed May 4, 1929.

73,662. KNITTED UNDERWEAR. Registered May 11, 1909. LITTLE FALLS MANUFACTURING CO., Little Falls, N. Y., a Corporation of New York. Renewed May 11, 1929.

# LABELS

## REGISTERED DECEMBER 25, 1928.

35,124.—*Title:* 8-HOUR EMANATION—OZO MIST—DIRECTIONS. For Inhalant for Treating Nasal and Bronchial Disorders. ADSON CHEMICAL COMPANY, INC., New York, N. Y. Published July 28, 1928.

35,125.—*Title:* BEDFORD TAILORED TROUSERS. For Men's Dress Pants. BEDFORD JOHNSON COMPANY, INC., New York, N. Y. Published September 15, 1928.

35,126.—*Title:* POWEROYL. For Combustion-Chamber-Lubricating Oil. NASIB BENANDIB, San Francisco, Calif. Published September 12, 1928.

35,127.—*Title:* TEN BURGESS SNAPLITE BATTERIES. For Flash-Light Batteries. BURGESS BATTERY COMPANY, Madison, Wis. Published November 1, 1928.

35,128.—*Title:* BLUE RIBBON BREAD. For Bread. CENTRAL WAXED PAPER COMPANY, Chicago, Ill. Published November 15, 1928.

35,129.—*Title:* HOMEPACK. For Canned Peaches. E. CLEMENS HORST CO., San Francisco, Calif. Published October 1, 1928.

35,130.—*Title:* FAMILY STYLE. For Tuna for Salad. COHN-HOPKINS, INC., San Diego, Calif. Published October 22, 1928.

35,131.—*Title:* RED E TO COOK. For Fish Fillets. COLLINS-LEE CO., Chelsea, Mass. Published October 1, 1928.

35,132.—*Title:* TRY ONE. For Fresh Pears. EARL FRUIT COMPANY, Wenatchee, Wash. Published November 13, 1928.

35,133.—*Title:* TRY ONE. For Fresh Apples. EARL FRUIT COMPANY, Wenatchee, Wash. Published November 13, 1928.

35,134.—*Title:* ENGELHARD'S BREAKFAST PACKAGE COFFEE. For Coffee. A. ENGELHARD & SONS CO., Louisville, Ky. Published November 1, 1928.

35,135.—*Title:* NIAGARA CHEWING GUM. For Chewing Gum. FORD VENDING MACHINE CORPORATION, Lockport, N. Y. Published October 1, 1928.

35,136.—*Title:* EVERYDAY. For Canned Peas. FRIDAY CANNING CORPORATION, New Richmond, Wis. Published October 15, 1928.

35,137.—*Title:* HARTS EZAPAIN BEST FOR PAIN. For a Medicinal Preparation in Tablet Form. HART DRUG COMPANY, Temple, Ga. Published October 15, 1928.

35,138.—*Title:* BULL-MEAT-BRAND-FLOUR. For Flour. B. HELLER & COMPANY, Chicago, Ill. Published November 1, 1928.

35,139.—*Title:* $1000.00 GUARANTEED MOTH KILLER. For Preparation in Liquid Form for Killing Moths. B. HELLER & COMPANY, Chicago, Ill. Published October 30, 1928.

35,140.—*Title:* ZANZIBAR BRAND ROYAL ZEST POULTRY SEASONING. For Poultry Seasoning. B. HELLER & COMPANY, Chicago, Ill. Published July 31, 1928.

35,141.—*Title:* SPRAYIT. For Insecticide. KEYSTONE CHEMICAL CO., INC., Cleveland, Ohio. Published August 1, 1928.

35,142.—*Title:* EAT MORE HONEY. For Comb Honey. G. B. LEWIS COMPANY, Watertown, Wis. Published April 18, 1928.

35,143.—*Title:* MALT LAX. For Laxative Cough and Cold Medicine. WILLIAM A. LIESCH, Chicago, Ill. Published March 24, 1928.

35,144.—*Title:* DIRECTIONS. For Canned Corn. THE MILFORD CANNING CO., Milford, Ill. Published August 11, 1928.

35,145.—*Title:* SCHOOL BOY PEANUT BUTTER. For Peanut Butter. THE ROGERS COMPANY, Seattle, Wash. Published October 1, 1928.

35,146.—*Title:* OH BOY. For Poultry Feeds. RUDY-PATRICK SEED COMPANY, Kansas City, Mo. Published October 15, 1928.

35,147.—*Title:* MISS SAYLOR'S UNUSUAL CHOCOLATES. For Chocolates. MISS SAYLOR'S CHOCOLATES INC., Alameda, Calif. Published September 1, 1928.

35,148.—*Title:* GOLD SHIELD. For Coffee. SCHWABACHER BROS. & CO. INC., Seattle, Wash. Published September 12, 1928.

35,149.—*Title:* SKOOKUM SYRUP. For Table Syrup. D. B. SCULLY SYRUP CO., Chicago, Ill. Published October 19, 1928.

35,150.—*Title:* PRIME-CUT BRAND SLICED SMOKED SALMON. For Sliced Smoked Salmon. STOBFOLD & GRONDAHL PKG. CO., Seattle, Wash. Published May 10, 1928.

35,151.—*Title:* WHITE STAR. For EGGS. WEINBERG & GOLDSMITH, Newark, N. J. Published September 25, 1928.

# PRINTS

## REGISTERED DECEMBER 25, 1928.

11,402.—*Title:* THE GIFT OF GIFTS—EXQUISITE BEAUTY. For Venetian Toilet Preparations. ELIZABETH ARDEN, INC., doing business as Elizabeth Arden, New York, N. Y. Published November 13, 1928.

11,403.—*Title:* THERE IS A GIFT THAT KINGS AND LOVERS AND WISE MEN HAVE GIVEN SINCE TIME BEGAN. For Jewelry. BLACK, STARR & FROST, New York, N. Y. Published November 15, 1928.

11,404.—*Title:* CADET CHEVRON. For Hosiery. THE CADET KNITTING COMPANY, Philadelphia, Pa. Published September 1, 1928.

11,405.—*Title:* CADET CUBIST. For Hosiery. THE CADET KNITTING COMPANY, Philadelphia, Pa. Published July 1, 1928.

11,406.—*Title:* ENGINEERING PLUS. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published September 29, 1928.

11,407.—*Title:* MILLIONS OF C G BUMPERS NOW IN USE. For Vehicle Bumpers. THE C. G. SPRING & BUMPER COMPANY, Detroit, Mich. Published October 27, 1928.

11,408.—*Title:* SPRING COLORS 1929. For Straw Braids and Body Hats. R. H. COMEY COMPANIES CONSOLIDATED, Brooklyn, N. Y. Published November 1, 1928.

11,409.—*Title:* SO SUCCESSFUL WITH PUPILS THAT OUR TEACHERS WANT TO REPEAT IT. For Wheat Breakfast Food. CREAM OF WHEAT CO., Minneapolis, Minn. Published November 10, 1928.

11,410.—*Title:* THE ART OF CREATIVE BEAUTY. For Cleansing Creams, Vanishing Creams, Cold Creams, Hand Creams, Weather Creams, Tissue Creams, Astringent Creams, Lip Sticks, Single Vanities, Face Powders, Skin Fresheners, Astringent Lotions, and Complexion Dressings. BARBARA GOULD, LTD., New York, N. Y. Published October 30, 1928.

11,411.—*Title:* TAKE YOUR FIRST BITE. For Mincemeat. H. J. HEINZ COMPANY, Pittsburgh, Pa. Published November 10, 1928.

11,412.—*Title:* FOOT COMFORT FOR THE ENTIRE FAMILY. For Slippers. LIND SHOE & SLIPPER COMPANY, INC., Worcester, Mass. Published November 10, 1928.

11,413.—*Title:* RAT KILLING MADE EASY. For Rat Killer. W. C. MCKEE, doing business as No. 9 Chemical Company, Columbus, Ga. Published November 16, 1928.

11,414.—*Title:* THE ART NEEDLEWORK FAIR. For Needlework. MOLTER-REINHARD CO., INC., Chicago, Ill. Published November 3, 1928.

11,415.—*Title:* THE CLEANSING OF THE TROPICS. For Cod-Liver Oil, Epsom Salt, Milk of Magnesia, Boric Acid, Bicarbonate of Soda, and Castor Oil. E. R. SQUIBB & SONS, New York, N. Y. Published September 1, 1928.

11,416.—*Title:* 6 MINUTES A DAY FOR THE TEETH . . . IS THAT TOO MUCH WHEN HEALTH AND BEAUTY ARE AT STAKE? For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published September 1, 1928.

11,417.—*Title:* IT CANNOT BE STATED TOO EMPHATICALLY. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 25, 1928.

11,418.—*Title:* A NIGHT CLUB FOR TIRED SMOKERS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 18, 1928.

11,419.—*Title:* GET THE NEWS. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 11, 1928.

11,420.—*Title:* KEEP THAT MORNING SPARKLE. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published August 4, 1928.

11,421.—*Title:* SO MANY WOMEN. For Dental Cream and Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published October 20, 1928.

11,422.—*Title:* FIRST AND LAST. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 28, 1928.

11,423.—*Title:* A SMOKING FORECAST. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 21, 1928.

11,424.—*Title:* A NEW APPETIZER FOR YOU. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 7, 1928.

11,425.—*Title:* THAT FIRST SMOKE IN THE MORNING. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published June 16, 1928.

11,426.—*Title:* NEGLECT OF BABY TEETH MAY EASILY MAR YOUR CHILDREN'S FUTURE. For Dental Cream and Milk of Magnesia. E. R. SQUIBB & SONS, New York, N. Y. Published September 15, 1928.

11,427.—*Title:* IT MAY SEEM STRANGE BUT ADULTS ARE BEGINNING TO TAKE CASTOR OIL. For Castor Oil. E. R. SQUIBB & SONS, New York, N. Y. Published August 1, 1928.

11,428.—*Title:* TO THE WISE SMOKER. For Dental Cream. E. R. SQUIBB & SONS, New York, N. Y. Published July 14, 1928.



11,429.—*Title:* CLEANSOL THE PERFECTED RADIATOR CLEANSER. For Preparation Used as a Cleanser of Automobile Radiators and Cooling Systems. SUMMIT OIL CORPORATION, Denver, Colo. Published November 10, 1928.

11,430.—*Title:* JUST RUB ON VICKS VAPO RUB. For Remedies for the Relief of Colds. VICK CHEMICAL COMPANY, Philadelphia, Pa. Published October 10, 1928.

11,431.—*Title:* MODERN HOSPITALS MAKE USE OF VITA GLASS IN REBUILDING THE HEALTH OF THEIR PATIENTS. For Glass. VITAGLASS CORPORATION, New York, N. Y. Published September 1, 1928.

11,432.—*Title:* YOUR SUNLIT ROOMS ARE SUNLESS. For Glass. VITAGLASS CORPORATION, New York, N. Y. Published June 1, 1928.

11,433.—*Title:* GIVE YOUR CHILD VACATION SUNSHINE ALL YEAR ROUND. For Glass. VITAGLASS CORPORATION, New York, N. Y. Published July 1, 1928.

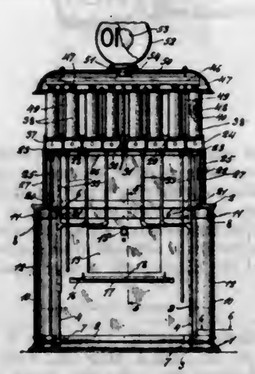
11,434.—*Title:* SCHOOL DAYS SHORTEN HIS HOURS OUTDOORS. For Glass. VITAGLASS CORPORATION, New York, N. Y. Published September 1, 1928.

11,435.—*Title:* IS YOUR CHILD TRYING TO GROW UP ON A HALF-RATION OF SUNSHINE? For Glass. VITAGLASS CORPORATION, New York, N. Y. Published August 1, 1928.

# REISSUES

## DECEMBER 25, 1928.

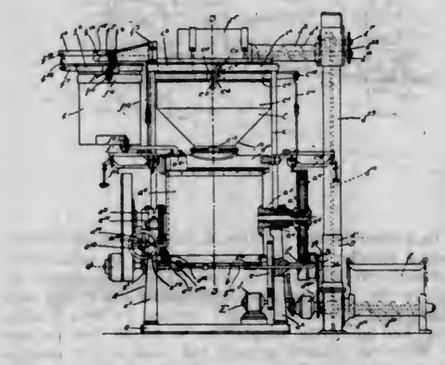
17,168. OIL-DISPENSING DEVICE. HAROLD G. DAVIS, Denver, Colo., assignor to The Davis and Son Manufacturing Company, Denver, Colo., a Corporation of Colorado. Filed Apr. 9, 1928. Serial No. 268,709. Original No. 1,601,200, dated Sept. 28, 1926, Serial No. 43,194, filed July 13, 1925. 5 Claims. (Cl. 221—69.)



1. An oil dispensing device comprising a drain board, means for supporting said board, said drain board having an elongated central opening, a flange surrounding said opening, lugs extending inwardly into said opening, supporting means secured to said lugs and projecting upwardly therefrom, a dispensing head secured to and supported by said supports, said dispensing head having a downwardly projecting flange corresponding in size and shape with the upwardly projecting flange on the drain board and side members secured to said flanges.

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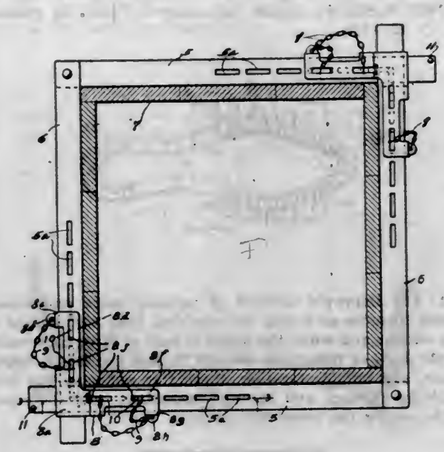
17,169. DOUGH MIXER. WILLIAM G. KIRCHHOFF, Cincinnati, Ohio, assignor to The J. H. Day Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 31, 1924. Serial No. 703,284. Original No. 1,481,556, dated Jan. 22, 1924, Serial No. 538,309, filed Feb. 21, 1922. 13 Claims. (Cl. 107—4.)



13. In a device of the class described the combination of a frame, a dough mixer carried by the frame, a flour weighing device carried by the frame above the mixer and adapted to discharge into the mixer, a sifter carried by the frame adapted to discharge into the flour weighing device, a flour bin, a conveyor for moving flour from the bin to the sifter, a fluid measuring device carried by the frame adapted to discharge into the mixer, and means for actuating the conveyor, the sifter and the mixer.

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17,170. COLUMN CLAMP WITH CASTINGS. HOWARD O. MCMILLAN, Minneapolis, Minn. Filed Sept. 24, 1928. Serial No. 308,105. Original No. 1,636,143, dated July 19, 1927, Serial No. 112,752, filed June 1, 1926. 16 Claims. (Cl. 144—291.)



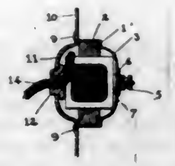
1. A clamp for a column form comprising two pairs of bars, the bars of each pair being pivoted together at one end, the pivoted ends of said bars being adapted to be disposed at opposite corners of said form with the bars extending along adjacent sides thereof, one bar of each pair overlapping a bar of the other pair at the other corners of said form, a member at each of said last mentioned corner having arms extending along the sides of the form embracing said overlapped bars and means acting on said arms and bars and disposed along the sides of said form for progressively drawing said bars toward said member and holding the same in clamping position.

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17,171. COMBINED TRANSFORMER AND CONDUIT-BOX COVER. ARTHUR E. RITTENHOUSE, Honeoye Falls, N. Y. Filed July 2, 1928. Serial No. 289,902. Original No. 1,661,268, dated Mar. 6, 1928, Serial No. 106,093, filed May 1, 1926. 12 Claims. (Cl. 247—20.)

12. The combination of a transformer having a core and windings, a flat cover plate for outlet boxes, said cover

plate having an aperture in the plane of the plate, the plate being adapted to receive and locate said transformer in a predetermined position on the plate by positive engage-



ment therewith with the core of the transformer resting on the rim of the aperture and means for clamping the transformer core in place on the plate in said predetermined position.

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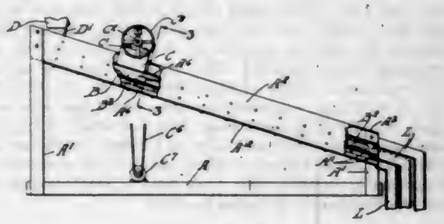
17,172. PROCESS OF SHOE MANUFACTURE. CHARLES B. SPALSBURY, St. Louis, Mo., assignor to Johnson, Stephens & Shinkle Shoe Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 2, 1927. Serial No. 230,671. Original No. 1,602,368, dated Oct. 5, 1926, Serial No. 41,998, filed July 7, 1925. 24 Claims. (Cl. 12—142.)



1. The improved method of making boots and shoes, which includes as a step the applying from the outside of the outsole and while the upper is held in close conformity to the last, of removable devices to hold the lasted upper, inner, and outsole together, thereafter removing the last, applying through and through fastenings, and thereupon withdrawing the removable devices.

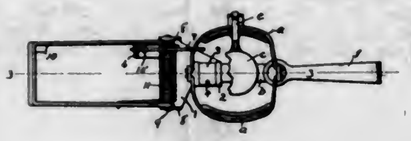
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17,173. SCREEN. JOHN BLAND, Tinton, S. Dak. Filed May 10, 1928. Serial No. 276,720. Original No. 1,610,353, dated Dec. 14, 1926, Serial No. 33,876, filed June 1, 1925. 21 Claims. (Cl. 209—347.)



1. In a screen, a screening member and a plurality of separated spring members each attached to said screen member throughout its length, and means for vibrating said spring members including an out-of-balance rotor adapted to act directly upon said spring members.

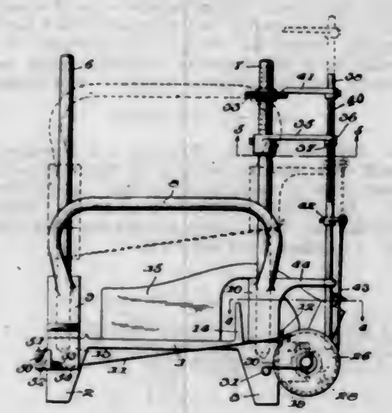
17,174. STRIKER ATTACHMENT FOR ANIMAL TRAPS. ARTHUR N. ARMSTRONG, Norwich, N. Y., assignor of one-half to Herman J. Sommers, Norwich, N. Y. Filed Sept. 12, 1928. Serial No. 305,546. Original No. 1,678,898, dated July 31, 1928, Serial No. 153,894, filed Dec. 10, 1926. 10 Claims. (Cl. 43—90.)



1. A striker attachment for animal traps of the twin jaw type, comprising a plate having at one end a loop open at one side for receiving a portion of the trap frame, movable means on the loop for locking it immovably to said frame, a spring-actuated striker pivoted to the plate, and means on the plate adapted to be controlled by one of the trap jaws for holding the striker against the action of its spring.

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17,175. CHEESE SLICER. CHARLES H. VON GLAHN, Brooklyn, N. Y. Filed May 25, 1928. Serial No. 280,626. Original No. 1,611,965, dated Dec. 28, 1926, Serial No. 78,883, filed Jan. 2, 1926. 9 Claims. (Cl. 31—20.)

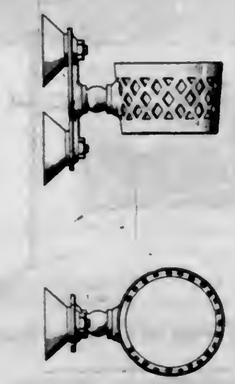


1. In a slicer having a frame, a cutter mounted thereon, a feeding member for advancing material to said cutter, a threaded rod journaled in said frame, and means operable by the movement of said cutter to rotate said threaded rod; a clutch member carried by said feeding member and normally adapted to be forced into engagement with the threads of said rod, said clutch member being movable out of engagement with said threads to permit retraction of said feeding member.

# DESIGNS

## DECEMBER 25, 1928.

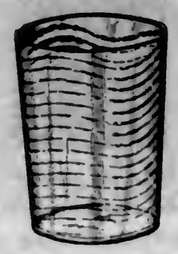
77,280. FLOWER-VASE HOLDER. EDWARD DAVID ANSON, Willamette, Oreg. Filed Sept. 14, 1928. Serial No. 28,142. Term of patent 7 years.



The ornamental design for a flower vase holder, as shown.

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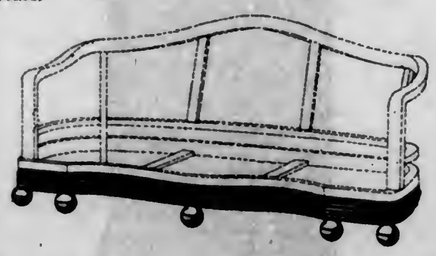
77,281. TUMBLER. EDWARD E. BARTLETT, Sapulpa, Okla., assignor to Bartlett-Collins Company, Sapulpa, Okla., a Corporation of Oklahoma. Filed Mar. 27, 1928. Serial No. 26,023. Term of patent 14 years.



The ornamental design for a tumbler, as shown.

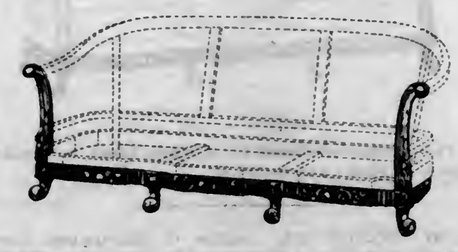
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77,282. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1928. Serial No. 28,392. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

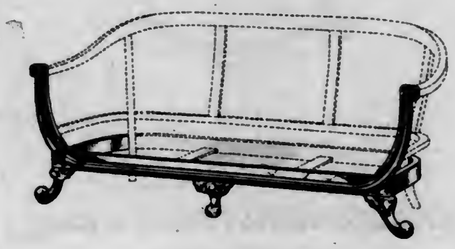
77,283. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 8, 1928. Serial No. 28,393. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

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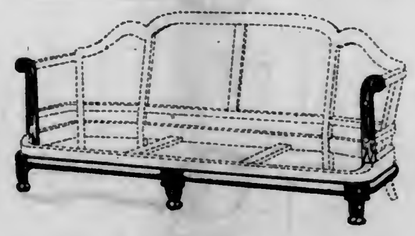
77,284. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1928. Serial No. 28,458. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

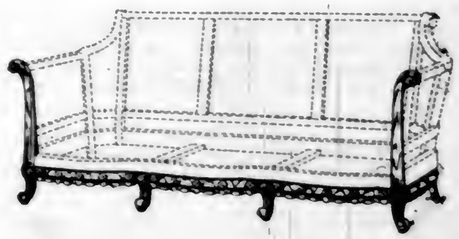
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77,285. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 11, 1928. Serial No. 28,459. Term of patent 3½ years.



The ornamental design for a settee frame or similar article as shown and described.

77,286. SETTEE FRAME OR SIMILAR ARTICLE. CARL BAUER, Chicago, Ill., assignor to Doetsch & Bauer Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 13, 1928. Serial No. 28,483. Term of patent 3½ years.



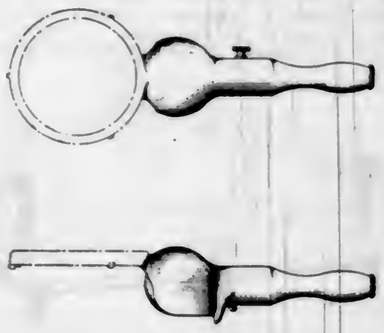
The ornamental design for a settee frame or similar article as shown and described.

77,287. WATCHCASE. ALFRED G. BERNHEIMER, New York, N. Y. Filed June 22, 1928. Serial No. 27,237. Term of patent 3½ years.



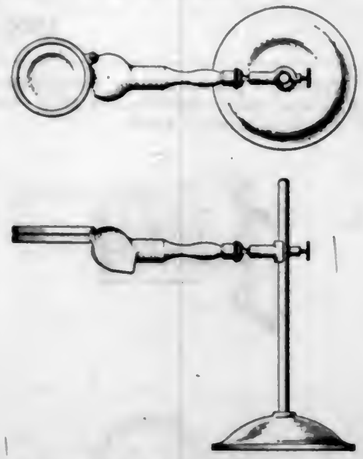
The ornamental design for a watchcase, as shown.

77,288. ILLUMINATED HAND GLASS. CHARLES T. BRADY, Detroit, Mich. Filed May 16, 1927. Serial No. 21,997. Term of patent 14 years.



The ornamental design for an illuminated hand glass, as shown.

77,289. DESK UNIT MAGNIFYING LAMP. CHARLES T. BRADY, Detroit, Mich. Filed June 9, 1927. Serial No. 22,372. Term of patent 14 years.



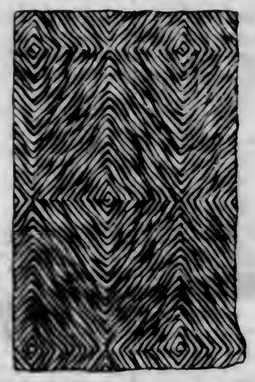
The ornamental design for a desk unit magnifying lamp, as shown.

77,290. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Aug. 8, 1928. Serial No. 27,742. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.

77,291. TEXTILE FABRIC. JAMES H. BUNTING, Clifton, N. J., assignor to Susquehanna Silk Mills, a Corporation of New York. Filed Aug. 8, 1928. Serial No. 27,743. Term of patent 3½ years.



The ornamental design for a textile fabric as shown.



77,292. WALL PAPER. CHARLES E. BURCHFIELD, Buffalo, N. Y., assignor to M. H. Birge & Sons Co., Buffalo, N. Y. Filed Apr. 18, 1928. Serial No. 26,365. Term of patent 14 years.



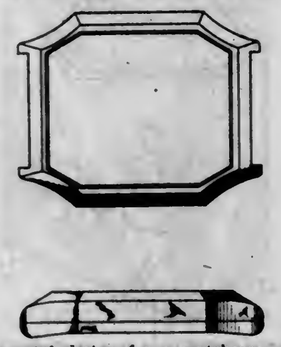
The ornamental design for wall paper, as shown.

77,293. TEXTILE FABRIC. EMILE COENE, Haledon, N. J., assignor to The Schwarzenbach Huber Co., West Hoboken, N. J., a Corporation of New New Jersey. Filed Oct. 17, 1928. Serial No. 28,520. Term of patent 14 years.



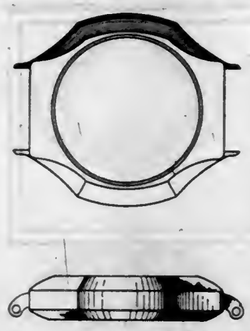
The ornamental design for a textile fabric as shown and described.

77,294. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Dec. 6, 1926. Serial No. 19,940. Term of patent 14 years.



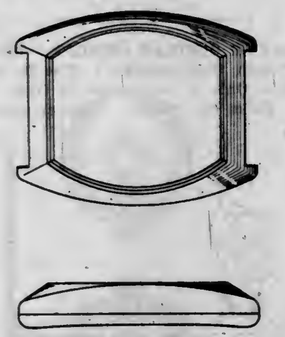
The ornamental design for a watchcase, substantially as shown.

77,295. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky., a Corporation of Kentucky. Filed Dec. 6, 1926. Serial No. 19,943. Term of patent 14 years.



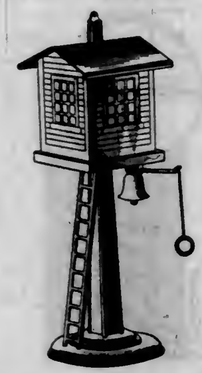
The ornamental design for a watchcase, substantially as shown.

77,296. WATCHCASE. ARTHUR P. CONANT, Fort Thomas, Ky., assignor to The Wadsworth Watch Case Company, Dayton, Ky. Filed Dec. 6, 1926. Serial No. 19,941. Term of patent 14 years.



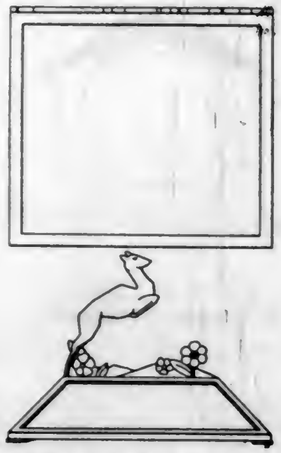
The ornamental design for a watchcase, substantially as shown.

77,297. TOY WATCHMAN'S TOWER. JAMES E. CUFF, Chicago, Ill., assignor to American Flyer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 2, 1928. Serial No. 26,965. Term of patent 7 years.



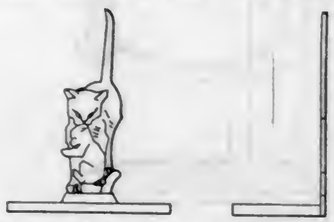
The ornamental design for a toy watchman's tower, as shown.

77,298. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,435. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

77,299. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,436. Term of patent 7 years.



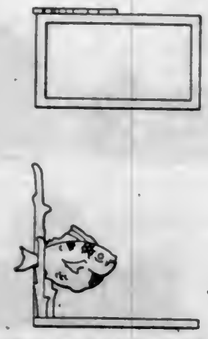
The ornamental design for a tray or similar article, substantially as shown.

77,300. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,437. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

77,301. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,438. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

77,302. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,439. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

77,303. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,440. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

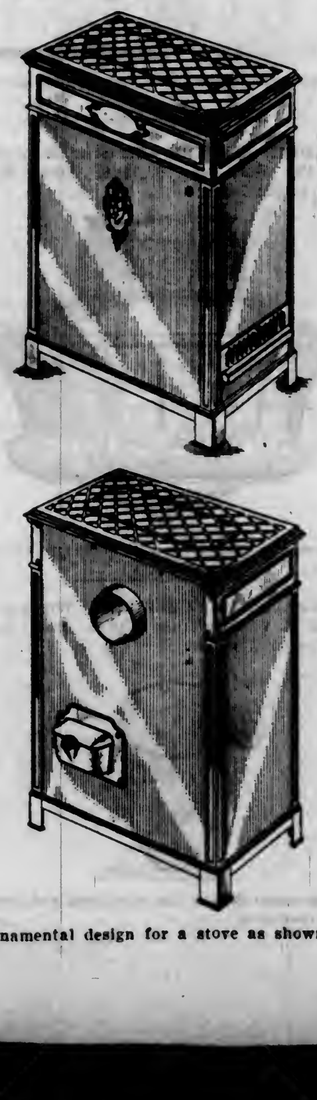


77,304. TRAY OR SIMILAR ARTICLE. THOMAS A. DE VILBISS, Toledo, Ohio, assignor to The De Vilbiss Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 10, 1928. Serial No. 28,449. Term of patent 7 years.



The ornamental design for a tray or similar article, substantially as shown.

77,305. STOVE. CLAUDE M. DIBBLE, Joliet, Ill., assignor to Moore Brothers Company, Joliet, Ill., a Corporation of Illinois. Filed Apr. 14, 1928. Serial No. 26,323. Term of patent 14 years.



The ornamental design for a stove as shown.

77,306. RADIATOR CAP. HENRY G. DIBELKA, Chicago, Ill., assignor to The Kingsley-Miller Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 5, 1928. Serial No. 28,375. Term of patent 7 years.



The ornamental design for a radiator cap, as shown.

77,307. RADIATOR CAP. HENRY G. DIBELKA, Chicago, Ill., assignor to The Kingsley-Miller Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 5, 1928. Serial No. 28,376. Term of patent 7 years.



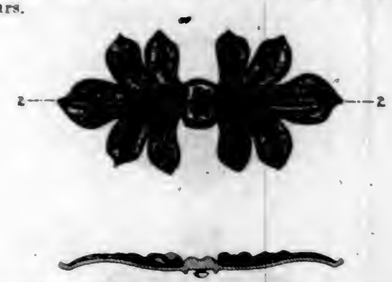
The ornamental design for a radiator cap, as shown.

77,308. PILE FABRIC. HUGO PAUL DICK, Lowell, Mass., assignor to Merrimack Manufacturing Company, Lowell, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1926. Serial No. 19,855. Term of patent 3½ years.



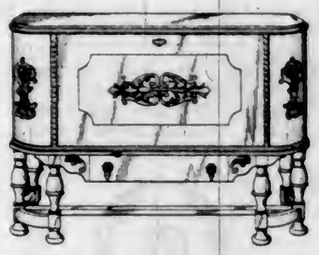
The ornamental design for a pile fabric as shown and described.

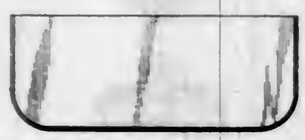
77,309. DRAPERY-POLE CENTER. AUGUST DLOUHY, Wallingford, Conn., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,218. Term of patent 3½ years.



The ornamental design for a drapery pole center, as shown.

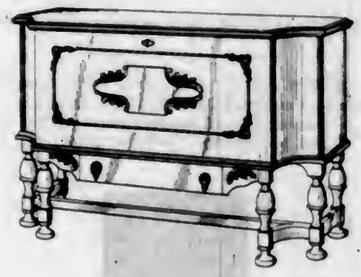
77,310. CEDAR CHEST. HYMAN DWORKIS, Chicago, Ill. Filed Sept. 24, 1928. Serial No. 28,260. Term of patent 7 years.





The ornamental design for a cedar chest, as shown.

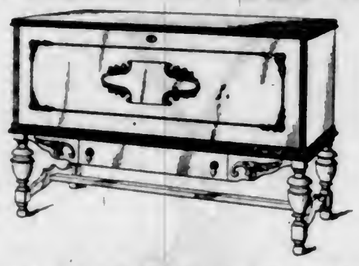
77,311. CEDAR CHEST. HYMAN DWORKIS, Chicago, Ill. Filed Sept. 24, 1928. Serial No. 28,261. Term of patent 7 years.





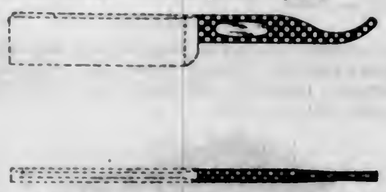
The ornamental design for a cedar chest, as shown.

77,312. CEDAR CHEST. HYMAN DWORKIS, Chicago, Ill. Filed Sept. 24, 1928. Serial No. 28,262. Term of patent 7 years.



The ornamental design for a cedar chest, as shown.

77,313. RAZOR BLADE. AUGUST F. ERN, Scarsdale, N. Y., assignor to K. C. Sealbach Company, New York, N. Y., a Corporation of New York. Filed June 15, 1927. Serial No. 22,436. Term of patent 7 years.



The ornamental design for a razor blade, as shown and described.

77,314. LIGHT FIXTURE. HERBERT M. FIRTH, Niles Center, Ill. Filed Mar. 8, 1928. Serial No. 25,762. Term of patent 7 years.



The ornamental design for a light fixture as shown.

77,315. TOBACCO-ASH RECEIVER. WILLIAM GORDON, New York, N. Y. Filed June 9, 1928. Serial No. 27,066. Term of patent 7 years.



The ornamental design for a tobacco ash receiver, as shown and described.

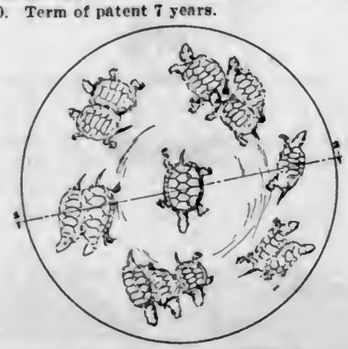


77,316. VANITY CASE. SAMUEL E. GUINN, Johnson City, Tenn. Filed Feb. 7, 1928. Serial No. 25,255. Term of patent 3½ years.



The ornamental design for a vanity case, as shown.

77,317. BOWL OR SIMILAR ARTICLE. EDWARD T. HURLEY, Cincinnati, Ohio. Filed Mar. 12, 1928. Serial No. 25,800. Term of patent 7 years.

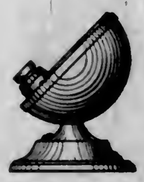




The ornamental design for a bowl or similar article as shown and described.

77,318. ADVERTISING CIGAR LIGHTER. ALDRICH L. JACKSON, St. Paul, Minn., assignor to Federal Manufacturing Company, a Copartnership consisting of Fred C. Nachtigall, Otto A. Blume, and Aldrich L. Jackson, St. Paul, Minn. Filed Mar. 16, 1927. Serial No. 21,158. Term of patent 3½ years.

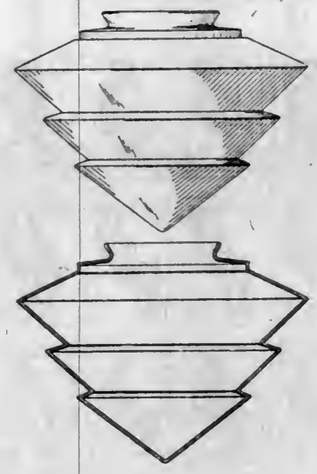




The ornamental design for an advertising cigar lighter, as shown.

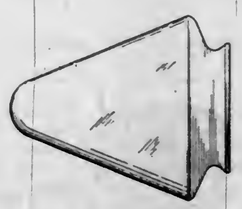
377 O. G.—52

77,319. LIGHTING-FIXTURE SHADE OR SIMILAR ARTICLE. NICHOLAS KOPP, Pittsburgh, Pa., assignor to Kopp Glass, Incorporated, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 12, 1928. Serial No. 25,802. Term of patent 14 years.



The ornamental design for a lighting fixture shade or similar article, as shown.

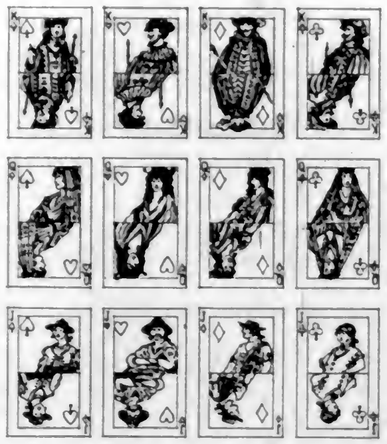
77,320. LIGHT SHADE OR SIMILAR ARTICLE. NICHOLAS KOPP, Pittsburgh, Pa., assignor to Kopp Glass, Inc., Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1928. Serial No. 25,946. Term of patent 14 years.





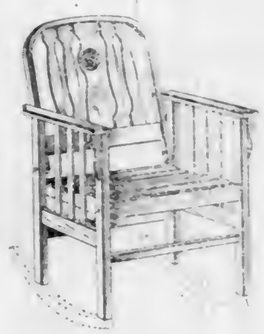
The ornamental design for a light shade or similar article as shown.

77,321. SET OF PLAYING CARDS. OTTO KUBATZKY, Tulsa, Okla., assignor to O. K. Playing Card Company, Tulsa, Okla., a Corporation of Delaware. Filed Aug. 5, 1927. Serial No. 23,007. Term of patent 14 years.



The ornamental design for a set of playing cards as shown.

77,322. CHAIR. ARTHUR J. LEHMAN, Cannelton, Ind. Filed Oct. 19, 1928. Serial No. 28,566. Term of patent 14 years.



The ornamental design for a chair, as shown.

77,323. ASH RECEPTACLE OR SIMILAR ARTICLE. ERNEST C. LEWIS, Meriden, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation of Ohio. Filed Sept. 22, 1928. Serial No. 28,248. Term of patent 14 years.



The ornamental design for an ash receptacle or similar article substantially as shown.

77,324. ASH RECEPTACLE OR ANALOGOUS ARTICLE. ERNEST C. LEWIS, Meriden, Conn., assignor to The Tubular Products Company, Southington, Conn., a Corporation of Ohio. Filed Sept. 22, 1928. Serial No. 28,249. Term of patent 14 years.



The ornamental design for an ash receptacle or analogous article substantially as shown.

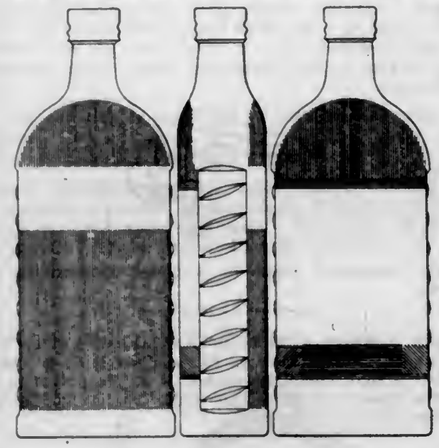


77,325. DOLL. GRACE LOVAT FRASER and CYNTHIA THIMBELBYE KENT, London, England. Filed Sept. 29, 1927. Serial No. 23,578. Term of patent 7 years.



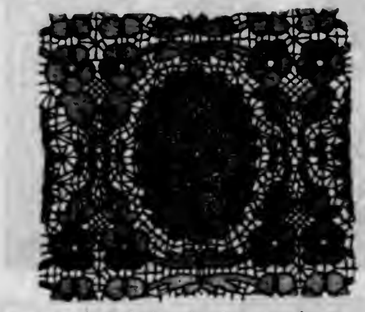
The ornamental design for a doll as shown.

77,326. BOTTLE. HARRY NEWMAN, Newark, N. J. Filed July 3, 1928. Serial No. 27,369. Term of patent 7 years.



The ornamental design for a bottle as shown.

77,327. LACE. WINSLOW A. PARSONS, Wellesley, Mass., assignor to Richmond Lace Works, Inc., Alton, R. I., a Corporation of Massachusetts. Filed Oct. 17, 1928. Serial No. 28,518. Term of patent 7 years.



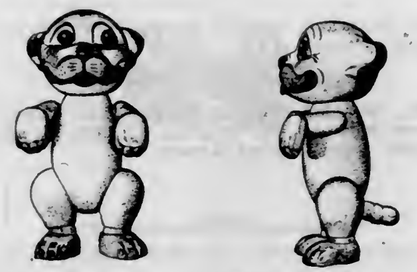
The ornamental design for lace as shown.

77,328. HEATER. GEORGE E. PICKUP, Newark, Ohio, assignor to The Wehrle Company, Newark, Ohio, a Corporation of Ohio. Filed May 3, 1928. Serial No. 26,551. Term of patent 7 years.



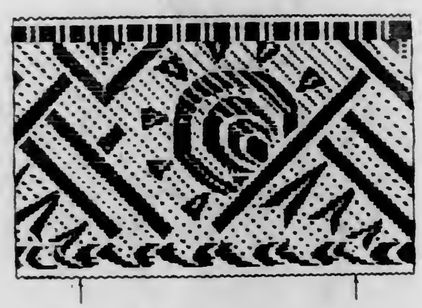
The ornamental design for a heater, substantially as shown.

77,329. TOY ANIMAL FIGURE. HARRY E. SCHOENHUT, Philadelphia, Pa., assignor to George E. Studdy, London, England. Filed Feb. 8, 1928. Serial No. 25,271. Term of patent 14 years.



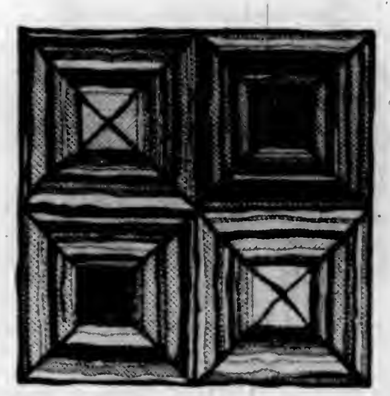
The ornamental design for a toy animal figure substantially as shown.

77,330. UPHOLSTERY BRAID. HERBERT O. SHULTS, Chicago, Ill., assignor to E. L. Mansure Company, Chicago, Ill., a Corporation of Illinois. Filed July 9, 1928. Serial No. 27,429. Term of patent 7 years.



The ornamental design for upholstery braid as shown and described.

77,331. PRINTED TEXTILE FABRIC OR THE LIKE. LOUIS JOSEPH SIRACUSANO, Astoria, N. Y., assignor to National Fabric and Finishing Company, New York, N. Y., a Corporation of Massachusetts. Filed Aug. 30, 1928. Serial No. 27,993. Term of patent 3½ years.



The ornamental design for a printed textile fabric or the like, as shown.

77,332. GOBLET OR SIMILAR ARTICLE. EDWIN E. SLICK, Pittsburgh, Pa. Filed Aug. 22, 1928. Serial No. 27,908. Term of patent 14 years.



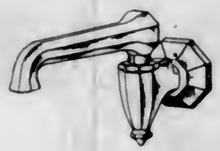
The ornamental design for a goblet or similar article, substantially as shown and described.

77,333. LEATHER OR SIMILAR ARTICLE. BERNARD STEMBER, New York, N. Y. Filed May 14, 1928. Serial No. 26,657. Term of patent 3½ years.



The ornamental design for leather or similar article, as shown and described.

77,334. FAUCET. WILLIAM O. THOMPSON, Pittsburgh, Pa., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 21, 1928. Serial No. 25,519. Term of patent 14 years.



The ornamental design for a faucet, substantially as shown.

77,335. TABLE COVER OR ANALOGOUS ARTICLE. EDWARD THORNE, Chicago, Ill., assignor to T. R. Goodlatte & Sons, (Inc.), Delawanna, N. J., a Corporation of New Jersey. Filed Jan. 9, 1928. Serial No. 24,791. Term of patent 3½ years.



The ornamental design for a table-cover or analogous article, substantially as shown.



77,336. ELECTRIC FLOOR LAMP. JOSEF TISSLER, Philadelphia, Pa. Filed Aug. 9, 1928. Serial No. 27,753. Term of patent 3½ years.



The ornamental design for an electric floor lamp, as shown.

77,337. MIRROR FRAME. JACOB TURNER, Chicago, Ill., assignor to Turner Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 25, 1928. Serial No. 27,274. Term of patent 3½ years.



The ornamental design for a mirror frame, as shown.

77,338. DRAPERY-POLE CENTER. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,252. Term of patent 3½ years.



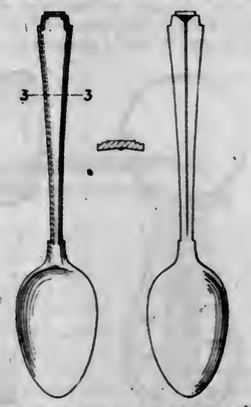
The ornamental design for a drapery pole center, as shown.

77,339. DRAPERY-POLE CENTER. RAYMOND H. VERMILLION, Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn., a Corporation of Delaware. Filed Apr. 10, 1928. Serial No. 26,250. Term of patent 3½ years.



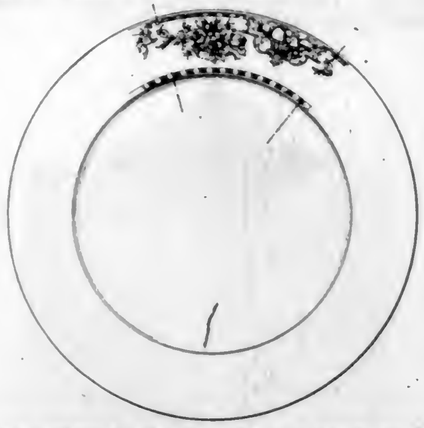
The ornamental design for a drapery pole center, as shown.

77,340. SPOON OR SIMILAR ARTICLE. WILLIAM S. WARREN, Meriden, Conn., assignor to R. Wallace & Sons Mfg. Co., Meriden, Conn., a Corporation. Filed Sept. 24, 1928. Serial No. 28,268. Term of patent 14 years.



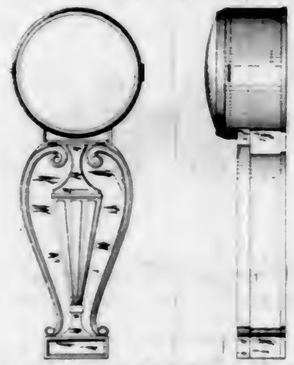

The ornamental design for a spoon or similar article as shown.

77,341. PLATE OR SIMILAR ARTICLE. CHARLES WEISS, New York, N. Y. Filed Oct. 24, 1928. Serial No. 28,611. Term of patent 7 years.



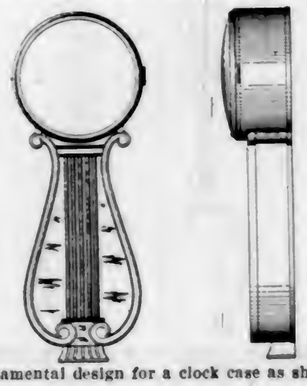
The ornamental design for a plate or similar article, as shown and described.

77,342. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed Oct. 2, 1928. Serial No. 28,350. Term of patent 14 years.



The ornamental design for a clock case as shown.

77,343. CLOCK CASE. RICHARD H. WHITEHEAD, New Haven, Conn., assignor to The New Haven Clock Co., New Haven, Conn., a Corporation. Filed Oct. 2, 1928. Serial No. 28,351. Term of patent 14 years.



The ornamental design for a clock case as shown.

77,344. WHISK-BROOM HOLDER. ELIZABETH WIENER, New York, N. Y. Filed Mar. 30, 1928. Serial No. 26,079. Term of patent 3½ years.



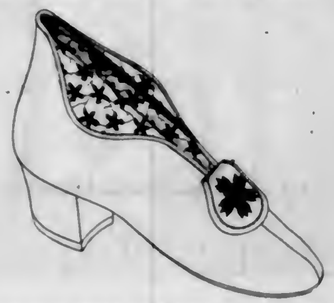
The ornamental design for a whisk-broom holder as shown.

77,345. SHOE. HERMAN WILHELM, New York, N. Y. Filed June 12, 1928. Serial No. 27,090. Term of patent 7 years.



The ornamental design for a shoe, substantially as shown.

77,346. BOUDOIR SLIPPER. SIMON WROBEL, New York, N. Y., assignor to S. Wrobel Slipper Co., Inc., New York, N. Y., a Corporation of New York. Filed June 14, 1928. Serial No. 27,129. Term of patent 3½ years.

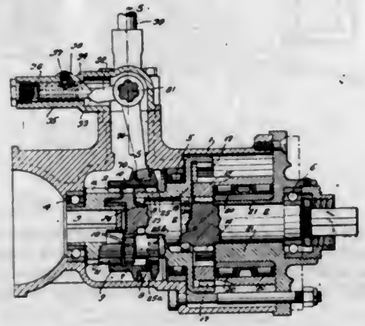


The ornamental design for a boudoir slipper, as shown.

# PATENTS

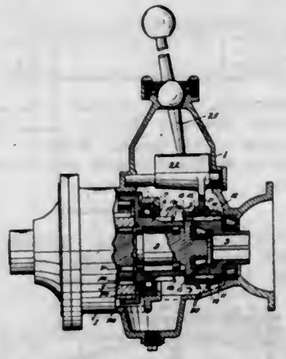
## GRANTED DECEMBER 25, 1928.

1,696,178. TRANSMISSION GEARING. CHARLES E. F. AHLM, Cleveland, Ohio, assignor to Automotive Patent Holding Company, Cleveland, Ohio, a Corporation of Delaware. Filed Mar. 14, 1925. Serial No. 15,480. 8 Claims. (Cl. 74—39.)



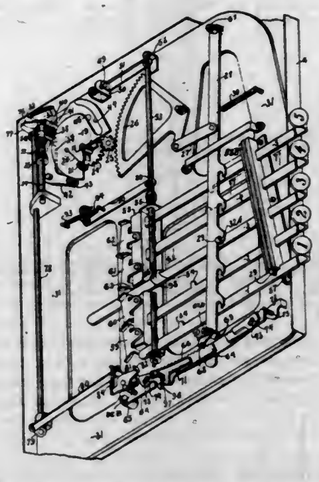
6. Shifting mechanism comprising a movably mounted member adapted to be connected with an element to be shifted, resiliently stressed means arranged to force said member away from a central position to two extreme positions, an operating member and a two way lost motion resilient connection between the operating member and the movably mounted member.

1,696,179. GEAR AND CLUTCH MECHANISM. CHARLES E. F. AHLM, Cleveland, Ohio, assignor to Automotive Patent Holding Company, Cleveland, Ohio, a Corporation of Delaware. Original application filed Mar. 14, 1925, Serial No. 15,480. Divided and this application filed Feb. 21, 1927. Serial No. 169,728. 3 Claims. (Cl. 192—48.)



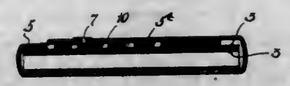
1. In a device of the character described, in combination two externally toothed members and a sleeve having two longitudinally separated sets of internal teeth of substantially identical contour and formed an equal pitch diameters, certain of the external teeth of each set extending longitudinally past others of the same set, each set of internal teeth on the sleeve being spaced circumferentially at least twice the distance of the external teeth, and a power transmitting member adapted to slidably engage one set of internal teeth as a spline, whereby such power transmitting member may be selectively connected with the externally toothed members through the other set of internal teeth.

1,696,180. TICKET-ISSUING MACHINE. JAMES S. ARCUS and ROBERT E. BEAUBIEN, Chicago, Ill.; said Beaubien assignor to said Arcus. Filed May 21, 1925. Serial No. 31,747. 18 Claims. (Cl. 164—42.)



1. In a ticket issuing machine, a plurality of reciprocable and interchangeably operable actuating members, and means for locking all except the selectively moved actuating member against movement until the selected one has returned to its starting position; the said means comprising pivoted latches disposed between the consecutive actuating members and behind the rear ends of all thereof when the actuating members are in their starting positions, the consecutive latches having arms abutting against one another, and stops for limiting the rocking movement of the latches about their pivots, the spread of the arms and the disposition of the stops being such that the separational movement of any two latches by the passing of a part of an actuating member between them will dispose the other latches so as to prevent the movement of any other latching member between any two of the said other latches.

1,696,181. FASTENING AND RELEASING MEANS FOR DOCUMENT RECEPTACLES. LEIGH MILLICAN BALLOWE, Dallas, Tex., assignor to T. G. Smith, Dallas, Tex. Filed Dec. 7, 1926. Serial No. 153,083. 1 Claim. (Cl. 24—17.)

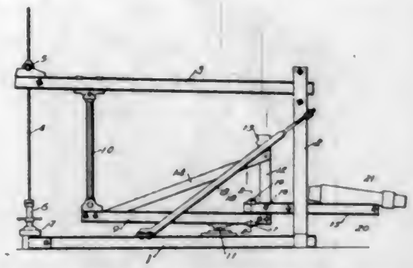



A receptacle of the character described, comprising overlying side flaps and end flaps, a grommet positioned within the body of one of said side flaps adjacent but spaced from the edge thereof, a hook comprising a base, a shank and an extremity, said base being formed as a hollow cylinder seated in said grommet, a portion of said cylinder being extended to form said shank and said extremity, a plurality of hook-receiving grommets seated in perforations spaced apart on the other of said side flaps, said shank being smooth and in substantial alignment with said cylindrical base portion, and said extremity extending at

substantially right angles to said shank for a distance less than the inner diameter of one of said hook-receiving grommets and in a direction away from the free edge of the flap carrying said hook to permit said hook with its shank and extremity to move freely through said hook-receiving grommet on pressure of the sides of said receptacle and to permit said extremity to engage under the edge of said hook receiving grommet to lock said hook in said hook-receiving grommet on release of said pressure.

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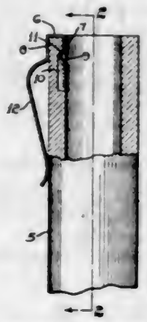
1,696,182. PUMPING JACK. WILLIAM R. BARNEY, Tulsa, Okla., assignor to Wilbur C. Norris, Tulsa, Okla. Filed Mar. 17, 1927. Serial No. 176,031. 2 Claims. (Cl. 74—5.)



1. In a pumping jack, the combination of a frame comprising a horizontal rocking member and a vertical member fixed therewith; a saddle on which the jack oscillates; means connecting the jack with a pumping rod; a counterbalance extension opposite the horizontal member, said horizontal member being formed of parallel bars and the counterbalance extension comprising parallel bars above and overlapping the bars of the horizontal member; and means securing the overlapping bars of the counterbalance extension to the horizontal member.

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1,696,183. CLIP FOR PENCILS AND THE LIKE. GERALD L. BASSETT. Toledo, Ohio, assignor to The Conklin Pen Company, Toledo, Ohio, a Corporation of Ohio. Filed May 28, 1928. Serial No. 281,081. 6 Claims. (Cl. 24—11.)

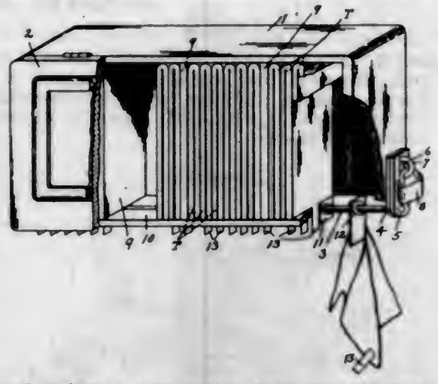


1. The combination with a hollow barrel member, open at one end, of a clip at said open end having legs bearing against the inner and outer surface of the barrel, one of said legs having a spur, said spur being inclined toward the end of the barrel and toward the wall thereof to permit the clip to be easily applied to the barrel and to prevent its removal therefrom.

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1,696,184. TOWEL HOLDING AND DISPENSING CABINET. CHARLES H. ASHLEY and LEIGH H. PHILLEO, Los Angeles, Calif. Filed Mar. 17, 1926. Serial No. 95,428. 2 Claims. (Cl. 312—37.)

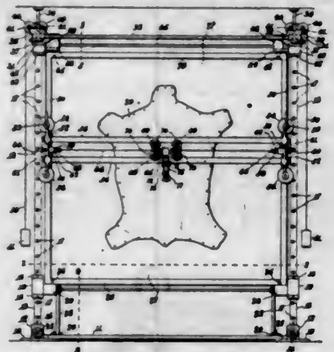
2. A towel holding cabinet comprising a box with open bottom, a cross strip narrower than said open bottom across said bottom from one end to the other to support folded towels edgewise thereupon within said box, a cross rod across said open bottom near said cross strip from one end to the other, detachably held in place and



adapted to have a part of each towel threaded thereon, whereby said towel can be pulled from said cross strip, through said open bottom with its part attached to said cross rod, and means for locking said cross rod in place.

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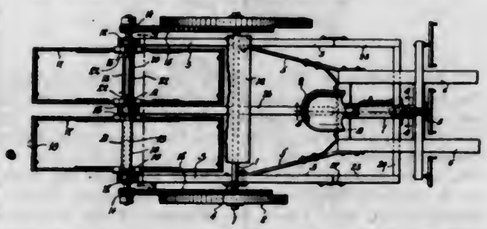
1,696,185. FRAME FOR LEATHER-SPRAYING DEVICES. PHILIP G. AULSON, Salem, Mass. Filed Aug 5, 1927. Serial No. 210,896. 28 Claims. (Cl. 91—60.)



1. The combination of two vertical guide members; a carriage movable vertically thereon; means for locking the opposite ends of said carriage directly to said guide members; and an air brush support movable horizontally on said carriage.

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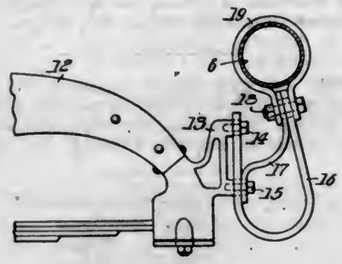
1,696,186. DOUBLE-ROW STALK CUTTER. PHYLANDER BLAKELY, Plano, Tex. Filed Apr. 23, 1927. Serial No. 186,036. 4 Claims. (Cl. 55—118.)



4. A stalk cutting machine of the character described and set forth in claim 3, a draft frame pivotally connected with said upper framework and a lever on the draft frame and connected to the lower framework by a connecting element on the forward part of the machine.



1,696,187. AUTOMOBILE BUMPER. FREDERICK G. BREMER, Pittsburgh, Pa., assignor to United States Chain & Forging Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 18, 1928. Serial No. 255,227. 8 Claims. (Cl. 293—55.)



1. Buffer spring structure comprising a yieldable member of yoke-like form, means for securing the inner end of said member to a vehicle frame, and means for connecting the outer end of said member to an impact bar, one of said securing means being adjustable in a direction longitudinally of said member.

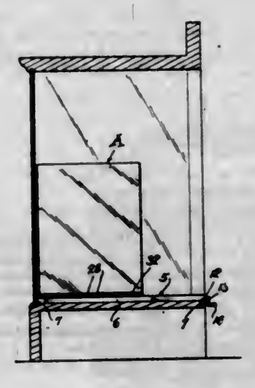
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1,696,188. PROCESS OF TREATING IRON ORES. THOMAS P. CAMPBELL, Denver, Colo. Filed May 19, 1927. Serial No. 192,804. 4 Claims. (Cl. 75—14.)

1. The process of treating ores containing iron, consisting of reducing comminuted ore to convert the iron into sponge, partially reoxidising the iron sponge and then passing the mixture over a magnetic separator.

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1,696,189. WINDOW-DISPLAY DEVICE. CESARE F. CASTAGNA, Hurley, Wis. Filed Feb. 14, 1928. Serial No. 254,172. 1 Claim. (Cl. 20—40.4.)



A window display device of the character set forth comprising grooved tracks, a sectional carriage slidably associated with the grooved tracks, a non-rotatable sleeve passing through the sections of the carriage and having a threaded interior bore and a substantially semi-circular pocket in the upper surface of each carriage section, a table associated with the carriage, a boss carried by the table and seated in the pockets of the carriage, a nut threaded on one end of the sleeve, a shaft threadedly associated with the bore of the sleeve, shaft supports carried by the tracks, a display device carried by the table and a crank secured to one end of the shaft.

1,696,190. FUSE-DISPENSING CABINET. MICHAEL J. CONNERY, Farley, Iowa. Filed Sept. 6, 1927. Serial No. 217,796. 4 Claims. (Cl. 312—42.)



1. In a cabinet of the kind described, a support, a series of spouts arranged in a row in spaced relation to each other upon the support, each spout having a closed lower end and an upper open end and also a forward elongated slot near the closed end of a length to permit free extraction of an article therethrough without endwise movement of the same, a head above the spouts, and tubes removably fitted in the head and telescoped in the upper open ends of the spouts.

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1,696,191. PACK. HUGH GEOFFREY COULSON, Newcastle, Ontario, Canada. Filed Mar. 1, 1928. Serial No. 258,311. 1 Claim. (Cl. 224—12.)



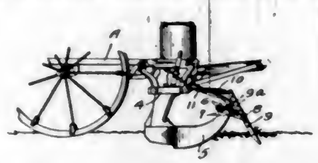
A suitcase attachment of the class described comprising a large ring disposed against one side of the suitcase intermediate of its width and at the top side of its longitudinal centre, a pair of straps extending therefrom and encompassing the suitcase, said straps being detachably connected together, a pair of diverging straps extending downwardly from said ring terminating short of the lower corners of the suitcase, small rings fitted to the divergent ends of the diverging straps, converging straps attached to said small rings and passed around the lower end of the suitcase and up the other side, a strap attached to the aforesaid large ring and passed over the upper end of the suitcase and detachably connected to the converging straps, means for holding the small rings in spaced relation, and shoulder straps attached to both the large and the small rings.

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1,696,192. CLEARING GUARD FOR PLANTER SHOES. PAUL DASEN, Ottosen, Iowa, assignor to Harry J. Dorweiler, Hamel, Minn. Filed June 9, 1927. Serial No. 197,617. 4 Claims. (Cl. 97—194.)

1. A clearing guard for planter shoes, comprising a clamp adapted to be secured to the forward end of a planter shoe, a tooth pivoted adjacent its medial portion in said clamp and having a portion adapted to extend downwardly

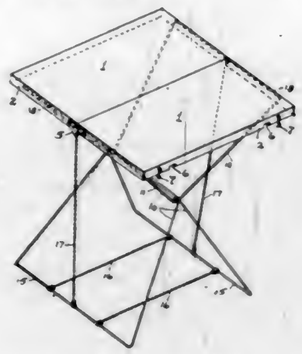
and forwardly therefrom into the ground in the path of said implement, said tooth having a portion projecting upwardly and rearwardly from said clamp, a coil spring con-



nected at one end with the upper end of said tooth member and a hook adapted to be adjustably connected at its one end with the frame of a planter and secured at its other end to the other end of said spring.

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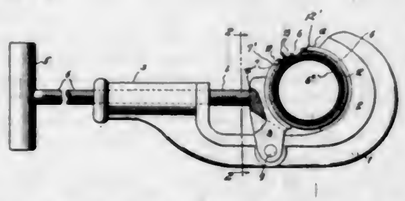
1,696,193. FOLDING TABLE. BENJAMIN DELAND, South Euclid, Ohio. Filed Oct. 23, 1924. Serial No. 745,369. 5 Claims. (Cl. 45—116.)



5. The combination of a folding table top consisting of two half members hinged together adapted to form a closed case when folded, each of said members having a depending flange around its edges and having complementary slots formed in two of said flanges, and a collapsible table support adapted to fit within said case with a portion of said support projecting through said slots to form a handle.

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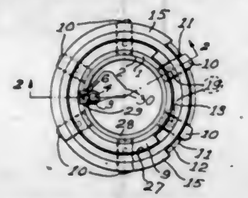
1,696,194. TOOL FOR APPLYING PATCHES TO FLEXIBLE HOSE. JOHN H. FOREMAN, Denison, Tex. Filed Nov. 26, 1926. Serial No. 150,733. 1 Claim. (Cl. 81—9.3.)



In a clamping tool for applying a strip to a hose the strip having lugs provided with notches, the combination with a body member, of a stationary jaw integral with said body member and curved to embrace a portion of said strip around said hose, a movable jaw pivoted to said body member and provided with an abutment, a shank integral with said body member and formed with a threaded opening therethrough, a rod in threaded engagement with said threaded opening and having its inner end abutting said abutment of said movable jaw and having its outer end provided with an operating handle, a reinforcing rib integral and coextensive with said body member and shank, said stationary jaw having an end portion extending beyond said body member and reinforcing rib, said end portion having its extreme end bevelled to engage in a notch in one of said lugs, said movable jaw having an end portion extending beyond said abutment and having its extreme end bevelled to engage in a notch in another of said lugs, whereby the ends of said strip are drawn together to clamp the same around the hose when the said handle is rotated to advance the said rod with its inner end in pressure-exerting contact with said movable jaw.

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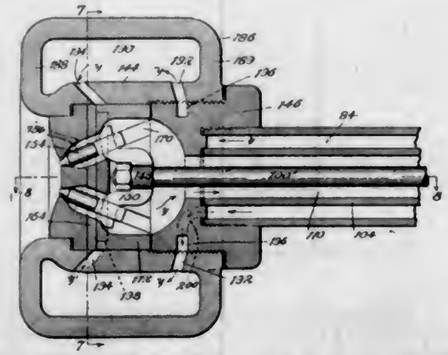
1,696,195. CUTTER HEAD. ALBERT F. FROUSSARD, St. Louis, Mo. Original application filed Feb. 6, 1922, Serial No. 534,466. Divided and this application filed Oct. 27, 1924. Serial No. 745,980. 4 Claims. (Cl. 77—58.)



1. A cutter head structure comprising an annular body having at its side an opening passing therethrough, the longitudinal dimension of said opening being disposed generally radially with relation to the body and pitched at an acute angle to the axis thereof, a plurality of cutters slidably insertible within said opening, each of said cutters having an inwardly directed projection presenting parallel top and bottom edges, a clamping ring having a downwardly directed bead for engaging the top edge of the projection on said cutter, a pin engaging the bottom edge of said projection, the points of engagement of said bead and said pin with the top and bottom edges of said projection being out of vertical alignment for forcing the cutter tightly in its respective opening and a collar mounted for sliding movement in the body in a direction parallel with the axis thereof and presenting a beveled end engaging the edge of said outer end portion of said cutter.

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1,696,196. LIQUID-FUEL BURNER. JAMES H. GRAY, Nice, France. Original application filed Apr. 21, 1922, Serial No. 555,803. Divided and this application filed Aug. 4, 1927. Serial No. 210,648. 3 Claims. (Cl. 158—73.)



1. A burner for liquid fuel comprising a tubular casing, a spray nozzle secured thereto, a plurality of converging chambers formed in said spray nozzle through which the fuel is adapted to be discharged, a jacket encircling said spray nozzle to form a chamber, ports in said jacket for permitting a circulation from said casing through said jacket and to said converging chambers and needle valve pins for controlling the discharge of fuel from said converging chambers.



1,696,197. PRODUCTION OF SODIUM NITRATE. ROBERT GRIESSBACH, Ludwigshafen-on-the-Rhine, and KUAT RÖHRE, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Sept. 22, 1927, Serial No. 221,394, and in Germany Oct. 14, 1926. 1 Claim. (Cl. 23—102.)

The process of recovering sodium nitrate from aqueous solutions containing it, which consists in precipitating sodium nitrate as a difficultly soluble double salt, by adding sodium sulfate, and decomposing the said double salt, by heating it with about the amount of water required for dissolving the sodium nitrate contained therein, the residual sulfate being separated by hot filtration and the sodium nitrate recovered by cooling the solution.

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1,696,198. COMBINATION CAP AND EYE SHIELD. OTTO GROSS, Dallas, Tex. Filed Feb. 18, 1928. Serial No. 255,269. 1 Claim. (Cl. 2—10.)



In a device of the class described, the combination with a cap provided with a vizor, protecting goggles provided with a frame pivotally connected with said vizor and and shaped to fit over the nose and to rest on the cheek, said goggles depending from said vizor in an operative position and being pivotally movable upward toward the front thereof to an inoperative position beneath said vizor, means for pivotally connecting said goggles with said vizor, said means comprising ears projecting downwardly from opposite sides of said vizor, rods extending outwardly from opposite ends of said frame, each of said rods having a pivot portion journaled in one of said ears, and a locking portion extending substantially at right angles to said pivot portion, a clip having an inner portion secured to said vizor adjacent each of said ears and an outer portion overhanging said locking portion of said rod, said outer portion of said clip being of resilient material and curved in the plane of movement of said locking portion for frictional engagement with the outer end of said locking portion to retain said goggles in operative position when swung upward beneath said vizor.

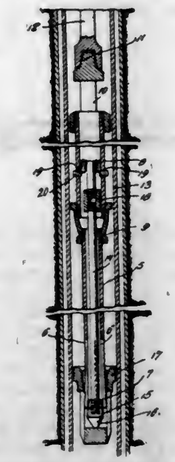
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1,696,199. AROMATIC SULPHONIC ACID. FRITZ GÜNTHER, Ludwigshafen-on-the-Rhine, and ADOLF CANTZLER, Mannheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a Corporation of Germany. Filed Nov. 18, 1926, Serial No. 149,268, and in Germany Nov. 21, 1925. 5 Claims. (Cl. 260—2.)

1. As new articles of manufacture, sulphonic acids of high cleansing, wetting and emulsifying power which are not dyestuffs and which are derived from aromatic compounds containing at least two aromatic nuclei linked together by a bridge and in which at least one aromatic nucleus contains at least 1 hydrogen atom substituted by a hydrocarbon residue with at least two carbon atoms.

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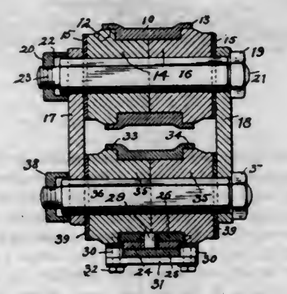
1,696,200. FISHING TOOL. GEORGE H. HAIFLEY, Eureka, Kans., assignor of one-half to George Bernard, Eureka, Kans. Filed Sept. 22, 1927. Serial No. 221,180. 3 Claims. (Cl. 294—94.)



1. A fishing tool for oil wells comprising a tubular body provided at its lower end with a plurality of gripping jaws, a cap removably applied to the upper end of the body and adapted for connection to a hoist line or the like, a rod freely longitudinally slidable in the body and projecting upwardly into the cap, a wedge rigid with the lower end of the rod adapted to be forced upwardly by impact with an object to expand the jaws, means to limit downward movement of the rod relative to the body, and a frangible member in the cap in the path of said rod to prevent accidental upward displacement of the wedge to jaw-extending position.

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1,696,201. PIVOTAL CONNECTION. HOWARD C. HARRIS, Akron, Ohio. Filed Sept. 28, 1925. Serial No. 59,004. 7 Claims. (Cl. 267—54.)



1. In apparatus of the class described, the combination of two relatively oscillatable members one of which has an eye of non-circular cross-section and the other a pintle of non-circular cross-section extending through said eye

and carrying radially extending adjustable abutments spaced from the ends of said eye, and a rubber bushing fitting said eye and said pintle so as to be non-rotatably connected therewith and having enlarged flanges engaging said abutments and the ends of said eye.

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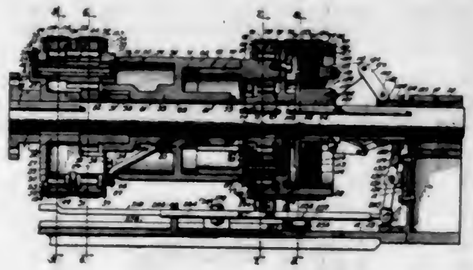
1,696,202. MEANS FOR PROTECTING WINDOW GLASS IN WINDOWS AND DOORS OF MOTOR VEHICLES WHEN PAINT IS APPLIED. RICHARD M. HARRIS, Dallas, Tex. Filed Oct. 24, 1927. Serial No. 228,190. 1 Claim. (Cl. 91—65.)



In a device of the class described the combination with a plate having a central upstanding longitudinal projection, said projection being hollow and having its upper surface provided with a slot, a second plate having a hollow central upstanding longitudinal projection, said last named projection adjacent one end thereof being provided with an opening in its upper side and having its under side open to straddle and ride upon said first named projection, and means for locking said plates together in adjusted position, comprising a lug having a head positioned within said first named projection and a shank extending through said opening and said slot, and a wing nut for engaging said shank to lock said plates together.

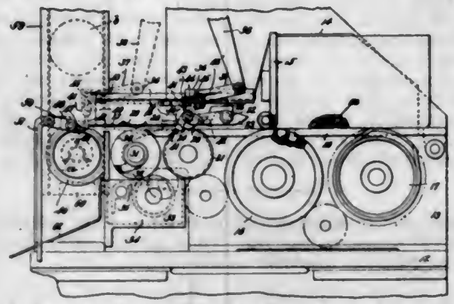
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1,696,203. VARIABLE-SPEED TRANSMISSION. GEORGE KRELL and GUY M. MARTINET, Sapulpa, Okla.; said Martinet assignor to said Krell. Filed Aug. 25, 1927. Serial No. 215,454. 4 Claims. (Cl. 74—34.)



1. In combination with a transmission shaft, a driven member rotatable on the shaft, a sun gear wheel rotatable on the shaft and keyed to the driven member, a carrier keyed to the shaft, a plurality of sets of planet gear wheels rotatably mounted on the carrier, the gear wheels of one planet set meshing with those of the other set and with the sun gear wheel, an orbit gear member for each set of planet gear wheels, a second sun gear wheel fixed to said shaft, a carrier fixed to said driven member, an orbit gear wheel rotatably mounted on the second carrier and meshing with the second sun gear wheel, an orbit gear member for said last named planet gear wheel, and means for selectively locking the orbit gear members to determine speed and direction of travel of the driven member for constant speed of the shaft.

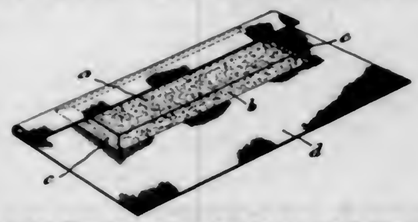
1,696,204. FEEDING AND FORMING BOX MACHINE. LEON E. LA BOMBARD and MELVIN H. SIDEBOTHAM, Chelsea, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Jan. 29, 1926. Serial No. 84,572. 8 Claims. (Cl. 93—39.)



1. In a machine of the character described; a hollow normally empty former having an opening, and means for pushing a blank through said opening to cause it to automatically partake of the shape of the inner wall of said former.

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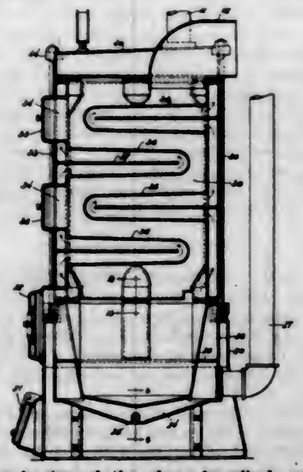
1,696,205. SANITARY NAPKIN. LEON E. LA BOMBARD and MELVIN H. SIDEBOTHAM, Chelsea, Mass., assignors to Specialty Automatic Machine Company, Chelsea, Mass., a Corporation of Massachusetts. Filed Dec. 6, 1926. Serial No. 152,748. 2 Claims. (Cl. 128—290.)



1. A flat filler for sanitary napkin pads, said filler having side edges beveled to present upper and lower surfaces of different areas, all portions of the pad, including the said edges, being of uniform density.

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1,696,206. WATER HEATER. HENRY J. LANGE, Lorain, Ohio. Filed Sept. 30, 1927. Serial No. 223,181. 4 Claims. (Cl. 122—209.)

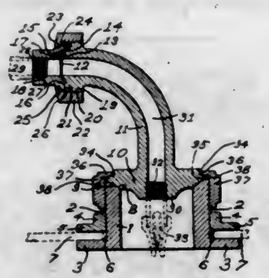


3. A water heater of the class described, comprising, in combination, a substantially rectangular base having an ash pit; a rectangular water fire-box section supported on the base and having water grate conduits cast integral therewith; separate front, rear and side water walls supported on the fire-box section communicating directly with the water space in said section through a plurality of separated openings; water baffles cast integral with the front and rear water walls and having partitions therein, said baffles on one wall being staggered with the baffles on the other wall to provide a zigzag gas pass; a horizontal dome section connected to said water walls and having an outlet flue therein; and means to secure all of said sections together.



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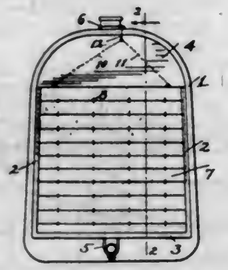
1,696,207. PIPE FITTING. DAVID LARKIN, St. Louis, Mo. Filed Mar. 13, 1925. Serial No. 15,377. 1 Claim. (Cl. 285—120.)



A pipe fitting structure of the class described comprising a flanged tubular member adapted for engagement with an apertured wall and terminating in an inclined seat portion, an elbow pipe provided at one end with a circumferential flange having a marginal inclined seat adapted to co-act with said inclined seat portion, the other end of said elbow pipe being adapted for removable connection with a pipe line, a boss projecting from the lower face of said circumferential flange and surrounding a centrally disposed threaded outlet somewhat smaller than the internal diameter of said tubular member and adapted to receive a projecting nozzle centrally spaced within said member, and means for clamping said tubular member to said elbow pipe.

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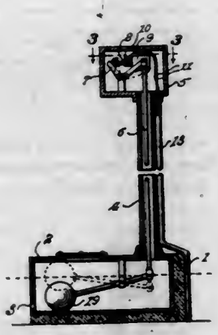
1,696,208. AIR-REGULATING DEVICE FOR AUTOMOBILE RADIATORS. GEORGE G. MARSHALL, Cleveland, Ohio. Filed Oct. 22, 1920. Serial No. 418,735. 1 Claim. (Cl. 20—58.)



An air regulating device for automobile radiators comprising a frame adapted to be secured upon the front of a radiator and having an opening, said frame having substantially vertical side members and a horizontal bottom member, said members being in the form of channels of uniform width with their open sides toward the opening, said side members having longitudinal guideways formed in the bottoms of the channels, a series of flexibly connected shutters mounted in the frame, each shutter being of a height less than the width of the channels, having its ends within the side channels and having pins projecting into the guideways in the bottoms of the side channels, flexible suspension members extending along the opposite ends of the shutters and connected to the pins projecting from the ends thereof, whereby the shutters may be suspended in vertical position one above the other to close the opening, or may fold into horizontal position one upon the other in the bottom channel.

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1,696,209. RAILROAD-WASHOUT SAFETY DEVICE. WILLIAM R. POOL, Ennis, and EARL W. MEALER, Dallas, Tex. Filed Mar. 19, 1928. Serial No. 262,855. 1 Claim. (Cl. 246—121.)



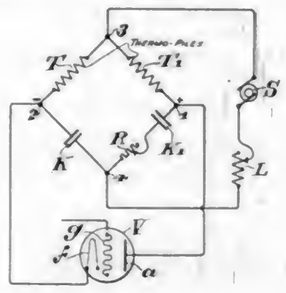
In a signal, the combination with a concrete box positioned at high-water level adjacent a railroad semaphore alongside track rails, of a hollow post supported on and extending upwardly from said box, a switch box mounted on the upper end of said post, a float arm pivoted intermediate its ends within said concrete box, said arm having one of its ends in the form of a float and its opposite end terminating below said post, a bell crank pivotally mounted in said switch box having legs extending at substantially right angles to each other, a switch comprising contact members and a pivoted handle mounted in said switch box for closing the circuit through said contact members, a roller bearing on said handle, a connecting rod projecting axially through said post having its lower end pivoted to the end of said float arm opposite said float, said connecting rod having its upper end pivoted to one of said legs, said roller bearing engaging the other of said legs to move said handle to close said switch when the bell crank is actuated by the float moving upwardly under the influence of water rising to a high-water level in said concrete box, said switch being in circuit with said rails and said semaphore, whereby the dangerous rise of water moving the said float to close said switch will automatically set the danger signal in said semaphore, said danger signal remaining in set position even after the float has dropped as a result of the dropping of the level of the water adjacent the signal, until said arm is manually moved to open said switch.

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1,696,210. CURRENT-RECTIFYING SYSTEM. HARRY F. PORTER, Trenton, N. J., assignor of one-half to Cornelius D. Ehret, Philadelphia, Pa. Filed Feb. 16, 1925. Serial No. 9,446. 15 Claims. (Cl. 250—27.)

1. In a system for deriving direct from fluctuating or alternating current comprising capacities and thermo-couples, the method which comprises passing fluctuating or alternat-

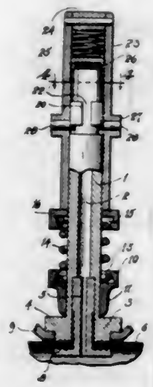
ing current through said capacities and thermo-couples while disposed in parallel paths with respect to the fluctuating or alternating current, effecting by said capacities zero




fluctuating or alternating potential differences between the remote terminals of the thermo-couple paths, and taking off direct current through said remote terminals.

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1,696,211. VALVE STEM FOR INNER TUBES OF PNEUMATIC TIRES. ARTHUR B. PREISSER, Dallas, Tex. Filed Aug. 26, 1927. Serial No. 215,676. 1 Claim. (Cl. 152—12.)

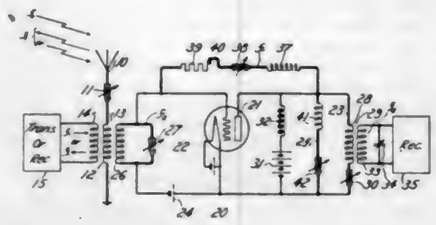


In mechanism adapted to be used with a valve cap for securing a valve stem formed with an enlarged base and a body portion to a tire rim provided with an aperture therethrough, the combination with upper and lower collars slidably fitting around said body portion, of a coiled spring interposed between said collars and having its upper and lower ends of larger diameter than its intermediate portion, the lower end of said upper collar provided with a centrally disposed dovetailed recess therein to detachably receive the enlarged upper end of said spring, the upper end of said lower collar provided with a centrally disposed dovetailed recess therein to detachably receive the enlarged lower end of said spring, said lower collar having its lower end tapered to seat in said tire rim aperture when said spring is compressed by the pressure exerted upon the upper end of said collar by said valve cap in position on said valve stem.

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1,696,212. SELECTIVE-TRANSLATION SYSTEM. JOHN PETER SCHAFER, Richmond Hill, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 22, 1923. Serial No. 682,180. 8 Claims. (Cl. 250—9.)

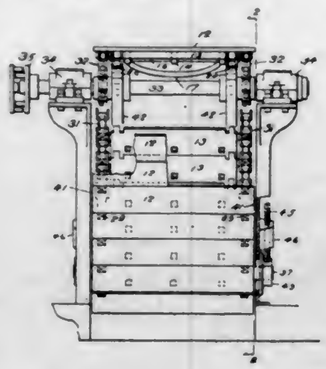
1. In an electric circuit, a relay device having input and output circuits, an impedance element connected between said circuits to prevent the flow of waves of given frequency through said output circuit, and an impedance ele-



ment connected to said output circuit to prevent the flow of waves harmonic to said given frequency in said output circuit.

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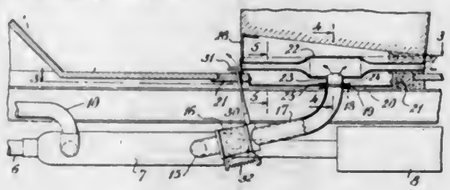
1,696,213. CRUSHER. HARRY J. SHELTON, University City, Mo. Filed Sept. 28, 1927. Serial No. 222,431. 16 Claims. (Cl. 83—11.)



1. A crusher comprising an endless series of vertically inclined travelling impact plates provided with supporting rollers near their ends and end extensions adapted for chain engagement projecting beyond said rollers, track beams for said rollers, removable driving chains detachably connected to and supported by said extensions, and means to operate said chains.

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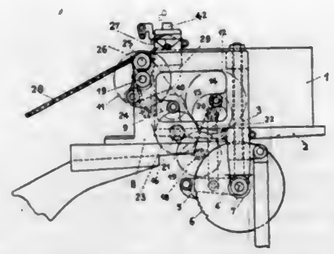
1,696,214. HEATER FOR AUTOMOBILES. SAMUEL A. SNELL, Detroit, Mich., assignor to Frederick C. Matthael, Detroit, Mich. Filed July 30, 1926. Serial No. 125,881. 10 Claims. (Cl. 98—2.)



1. A register for use in a closed automobile divided into compartments and having an air heater beneath the floor thereof and a conduit leading upwardly from the heater, which comprises a conduit member connected to the conduit to receive heated air from the heater, and a branch disposed between compartments and connected to the member and having a plurality of outlet openings above the level of the floor and arranged to deliver heated air into the several compartments of the automobile body horizontally over the floor.



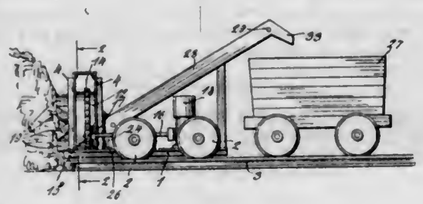
1,696,215. APPARATUS FOR REMOVING SHEETS FROM A PILE. GEORG SPIESS, Liepzig-Plagwitz, Germany. Filed May 28, 1927, Serial No. 195,094, and in Germany May 27, 1926. 14 Claims. (Cl. 271—27.)



1. An apparatus for removing sheets from a pile by means of suction, comprising suction devices arranged at the sides of the pile on transversely adjustable pivoted carrier arms, and adapted to seize the front edges of the sheets, lift them and pull the sheets from the pile by a swinging movement of the arms.

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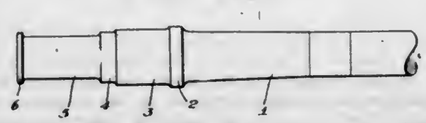
1,696,216. SHOVELING MACHINE. BENJAMIN C. STANHOPE, Denver, Colo. Filed Dec. 13, 1927. Serial No. 239,634. 3 Claims. (Cl. 198—0.)



1. An apparatus of the class described, comprising, in combination, a supporting frame work, a cylinder rotatably supported thereon, a plurality of spiral shovels secured to the inner surface of said cylinder and projecting from one end thereof, that portion of the shovels within the cylinder being enclosed, a shield covering a portion of the lower end of the cylinder opposite from the end where the shovels project and means for rotating said cylinder.

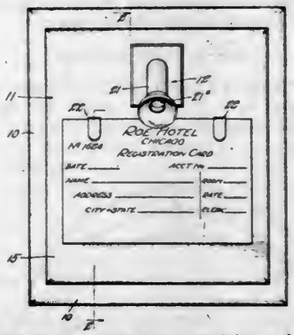
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1,696,217. METHOD OF RECLAIMING OF WORN CAR AXLES. WALTER H. STOCKING, Coraopolis, Pa., assignor to Pittsburgh Forgings Company, Coraopolis, Pa., a Corporation of Delaware. Filed Feb. 15, 1928. Serial No. 254,398. 2 Claims. (Cl. 29—105.)



1. The method herein described of reclaiming worn car axles which consists in trimming away the end collars, heating to forging temperature and while so heated upsetting the end portions with new end collars, swedging the medial body throughout all its extent, and finally machining the ends.

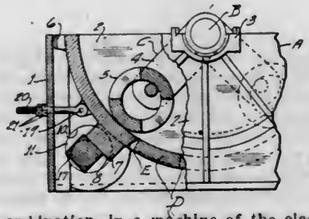
1,696,218. FOUNTAIN-PEN DESK SET. GEORGE E. SWEETNAM and JAMES ORECK, Chicago, Ill., assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a Corporation of Delaware. Filed Feb. 15, 1926. Serial No. 88,208. 5 Claims. (Cl. 120—108.)




1. A fountain pen desk set comprising a lower section, an upper section detachably secured to said lower section, a receptacle mounted in said upper section, and means secured to said upper section for securing said receptacle therein.

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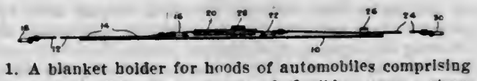
1,696,219. PULVERIZING MACHINE. JOSEPH TEIPEL, St. Louis, Mo., assignor to American Pulverizer Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 29, 1927. Serial No. 187,524. 2 Claims. (Cl. 83—11.)



1. In combination, in a machine of the class described, a casing, bosses oppositely presented outwardly from the side walls of the casing, said bosses having circular apertures aligned transversely of the machine, a hammer-mechanism mounted for operation within the casing, a grinding-plate mounted for adjustable movement pivotally within the casing in co-operative relation to the hammer-mechanism, and means for adjustably shifting the plate pivotally relatively to the hammer-mechanism, said means including cylindrical bushings mounted for rotatory movement in the apertures of the bosses and having openings aligned transversely of the machine and eccentrically disposed to the apertures of the bosses, spaced lugs projecting from the outer face of said plate, each of said lugs having a flat end-face obliquely disposed to the end wall of the casing, and a shaft extending transversely of and through the casing and having its ends disposed in the openings of the bushings, the shaft intermediate its ends being of non-circular section for flatwise plate-supporting engagement with the flat end-faces of said lugs, said shaft being shifted obliquely relatively to the lugs and said plate being shifted pivotally on rotatory actuation of said bushings.

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1,696,220. BLANKET HOLDER FOR HOODS OF AUTOMOBILES. HARRY A. TOWNSEND, Minneapolis, Minn. Filed Sept. 8, 1927. Serial No. 218,235. 2 Claims. (Cl. 24—73.)

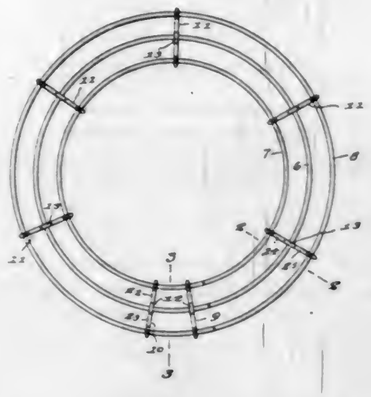


1. A blanket holder for hoods of automobiles comprising a central flexible strap, a second flexible narrow strap

sewed to one end of said central strap, rings attached to both ends of said second strap, a coiled spring disposed on the outer surface of said central strap and attached at one end to the inner one of said rings, a third flexible narrow strap, and rings attached to both ends of said third strap, the other end of said spring being attached to the inner one of said last mentioned rings.

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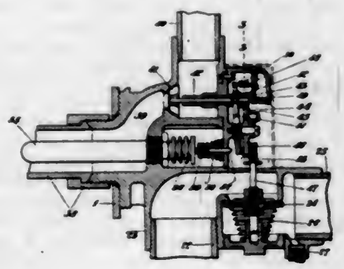
1,696,221. WREATH FORM. EARL D. TUBBS, New York, N. Y. Filed July 2, 1927. Serial No. 203,078. 2 Claims. (Cl. 41—12.)



1. An article of the class described, comprising three wires disposed in circular formation and having their ends overlapping, one of said wires being disposed centrally and without the plane of the other two wires, and cross-stays having eye portions to receive said central wire and having angular disposed side portions provided with loops for engaging the other two wires, said cross-stays also serving for clamping the overlapping ends of all the wires together.

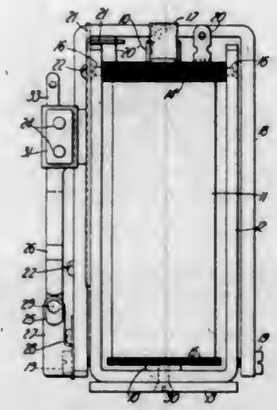
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1,696,222. TEMPERATURE CONTROL FOR WATER HEATERS. FRANK L. O. WADSWORTH, Pittsburgh, Pa. Filed May 19, 1923. Serial No. 640,079. 19 Claims. (Cl. 236—23.)



1. In a water heater the combination of a fuel burner, a heating unit positioned above said burner, a fuel control valve, a reciprocable rotor member positioned in the path of the water flow through the said heating unit and adapted to be actuated by the said flow, and means for effecting the opening and closing movements of the said fuel valve by a combination of the reciprocating and rotary movements of the said member.

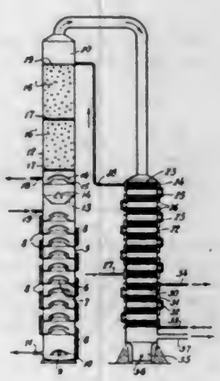
1,696,223. ELECTROMAGNETIC DEVICE. JAMES A. WOTTON, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 22, 1924. Serial No. 714,996. 3 Claims. (Cl. 175—30.)



1. In an electromagnetic device, a winding, a metallic frame surrounding this winding, one end of said winding being connected to said frame, and a terminal mounted in close proximity to said frame so as to form an air gap between said terminal and said frame of a predetermined value such that the impedance of said air gap is less than the impedance of said winding.

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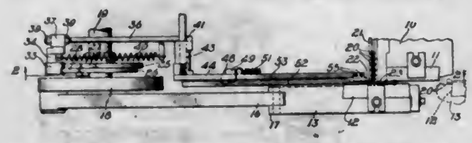
1,696,224. METHOD FOR TREATING FILTER LIQUOR. HARALD AHLQVIST, Rye, N. Y. Filed Nov. 17, 1926. Serial No. 148,989. 5 Claims. (Cl. 203—1.)



1. The improvement in the method of separating ammonia from filter liquor produced in the ammonia-soda process, which comprises distilling the liquor, preheating the liquor by direct contact with the vapors produced by distillation thereby causing further vaporization, conducting the vapors thereafter in countercurrent heat exchange with fresh liquor, causing the condensate from the vapors to follow the path thereof during the heat exchange and separately withdrawing the condensate consisting of weak ammonia liquor and the residual uncondensed vapors containing ammonia in the gaseous phase.



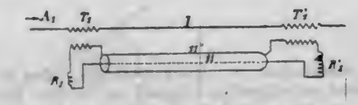
1,696,225. THREAD-FORMING MECHANISM. HAROLD LANGLEY BLOOD, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 8, 1925. Serial No. 28,865. 9 Claims. (Cl. 80—8.)



1. In a thread rolling mechanism, a pair of die members having cooperating die faces, means for causing an intermittent relative motion therebetween to form a screw thread on a blank interposed between said faces, and means for successively feeding a plurality of blanks from a common point to and between said members at predetermined intervals to effect a predetermined spaced relationship of the blanks between the members during each thread forming relative movement of the die members.

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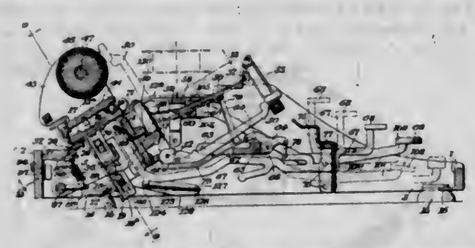
1,696,226. PROTECTIVE SYSTEM FOR ELECTRIC CABLES. FLORIMOND DOUCHET, Paris, France, assignor to Forges & Ateliers de Constructions Electriques de Jeumont Société Anonyme, Paris, France, a French Joint Stock Company. Filed Apr. 12, 1927, Serial No. 183,152, and in France May 7, 1926. 7 Claims. (Cl. 175—294.)



1. A protective system for electric cables, comprising a pair of transformers, said transformers having their primaries included in the circuit of one conductor of the cable to be protected, and having their secondaries connected in opposition by a pilot circuit, said pilot circuit comprising two conductors, one surrounding the other.

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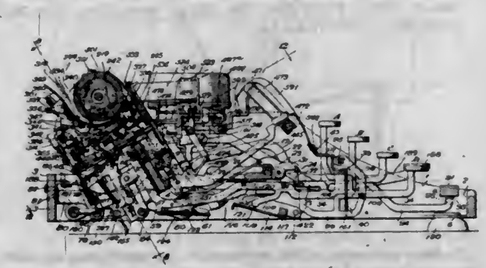
1,696,227. TYPEWRITING MACHINE. ALONZO B. ELY and EDWIN L. HARMON, Groton, N. Y., assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y., a Corporation of New York. Filed May 9, 1925. Serial No. 29,125. 48 Claims. (Cl. 197—73.)



1. In a typewriting machine, the combination of a main frame; a platen carriage; a platen on the carriage; a bed upon which the carriage is mounted to travel transversely of the main frame; key-actuated multiple-case printing instrumentalities on the main frame; a pair of resilient sheet metal members inside the main frame extending fore and aft of the machine and each rigidly secured adjacent one edge only thereof to the main frame to permit flexing of the free portion thereof transversely of the machine, said pair of resilient members being formed with raceways parallel with their rigidly secured edges facing inward toward opposite sides of the machine; a pair of rigid members rigidly held to the bed extending between the resilient members and formed with raceways facing outward toward opposite sides of the machine opposite the raceways on the resilient members; antifriction rolling elements in the races formed by the opposed raceways on each two adjacent resilient and rigid members; adjustable means on the main frame for flexing the free portions of said resilient members transversely of the machine and positively holding them in flexed position; and key-operated means for shifting the bed and the parts movable therewith to change case.

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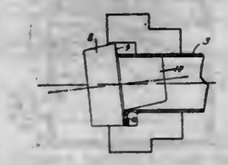
1,696,228. TYPEWRITING MACHINE. ALONZO B. ELY and EDWIN L. HARMON, Groton, N. Y., assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 31, 1925. Serial No. 66,000. 82 Claims. (IC. 197—186.)



56. In a typewriting machine, a main frame; a platen carriage and a shift frame therefor both located forward of the rear of the main frame; a platen on the carriage; a type-bar action including type bars and key levers located entirely in the space between the shift frame and the front of the main frame and below the level of the top of the platen; carriage escapement mechanism under the carriage and in rear of the type bar action operable by the type bar action; ribbon spools and rotating devices therefor supported from the shift frame below the level of the platen and entirely forward of the shift frame; a rocking frame operable by the type action; and operating connections between the rocking frame and said rotating devices said rocking frame and operating connections being located entirely forward of the shift frame and escapement mechanism.

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1,696,229. METHOD FOR FORMING FLANGES ON PIPES. FRED C. FANTZ, Webster Groves, Mo., assignor to Midwest Piping & Supply Company, Incorporated, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 17, 1926. Serial No. 129,742. 4 Claims. (Cl. 78—81.)



4. The method of upsetting a flange on a tubular article consisting in subjecting the edge of the article to a gradually increasing circumferential pressure increasing at the same rate and degree continuously around the circumference.

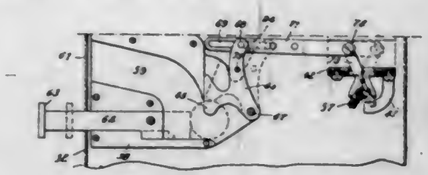
1,696,230. ELECTRICAL PILOTAGE. JOHN J. GILBERT, Fort Washington, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 30, 1923. Serial No. 648,689. 4 Claims. (Cl. 177—385.)



4. A piloting circuit comprising an electrical conductor continuously loaded with magnetic material throughout at least that portion of its length where it is desired to produce an external electromagnetic field.

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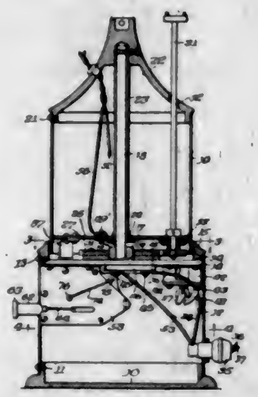
1,696,231. COIN-CONTROLLED FAN. MYRON L. HANEY, Beloit, Wis. Filed Nov. 19, 1924. Serial No. 750,755. 5 Claims. (Cl. 194—74.)



1. In a coin controlled mechanism for operating an electric switch, the combination of a coin chute, a trigger pivoted opposite the lower end of said chute, a pivoted switch member connected to said trigger through a lost motion connection, and a push bar operating through a coin in the bottom of said chute to swing said trigger and thereby actuate said switch member, said lost motion connection permitting said trigger to return to coin engaging position without actuating said switch member.

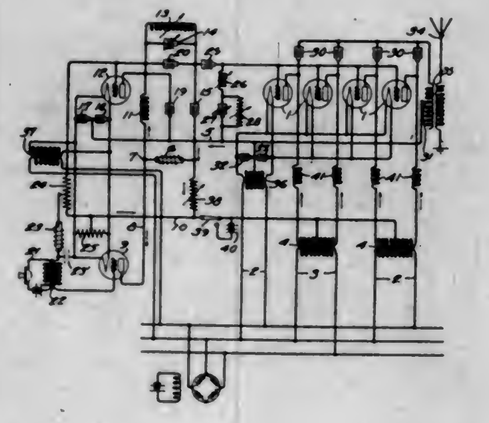
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1,696,232. COIN-CONTROLLED FAN. MYRON L. HANEY, Chicago, Ill. Original application filed Nov. 19, 1924, Serial No. 750,755. Divided and this application filed June 10, 1927. Serial No. 197,780. 8 Claims. (Cl. 230—271.)



1. The combination with a revoluble supporting member, of a fan and an electric motor therefor mounted on said supporting member, means driven by said motor for effecting a turning movement of said supporting member, fan and motor, and automatic means for de-energizing said motor after a predetermined number of revolutions of said supporting member.

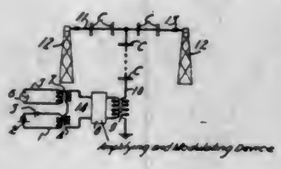
1,696,233. ENERGIZING VACUUM DISCHARGE DEVICE BY ALTERNATING CURRENT. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 6, 1922. Serial No. 599,206. 16 Claims. (Cl. 250—17.)



15. In combination two space discharge tubes in tandem whereby output waves supplied by the first tube are impressed upon the second tube and repeated thereby without change of frequency, a source of alternating current, and connections of the space paths of said tubes to said source, whereby the second tube serves to rectify alternating current from said source to supply uni-directional space current to the first tube.

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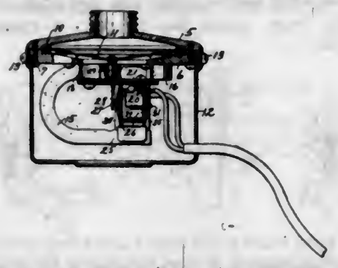
1,696,234. ANTENNA. RAYMOND A. HEISING, Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 18, 1923. Serial No. 669,220. 2 Claims. (Cl. 250—33.)



1. In an open radiating circuit for transmitting at short wave lengths, means for increasing the effective natural frequency of said circuit comprising a plurality of capacities included in series in said circuit and spaced apart from each other, the nductance and capacity of the portions of said circuit between said spaced capacities being too small to form an element which can be self-resonating at any wave length in the neighborhood of the short wave lengths employed.



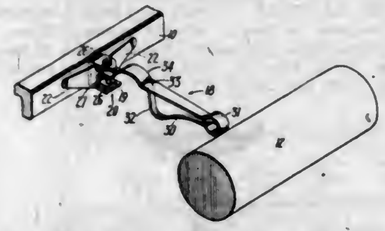
1,696,235. LOUD-SPEAKER UNIT. HUGO HELLER and JOHN C. MITCHELL, Milwaukee, Wis., assignors to A. C. Kootz, Milwaukee, Wis. Filed Dec. 2, 1926. Serial No. 152,111. 11 Claims. (Cl. 179—114.)



1. A device of the character described including a mounting plate provided with bosses, a magnet having a leg disposed between said bosses, and a strap spanning said leg from one boss to another and connected with said bosses, said leg being confined between said plate and strap, whereby to secure said magnet to said plate.

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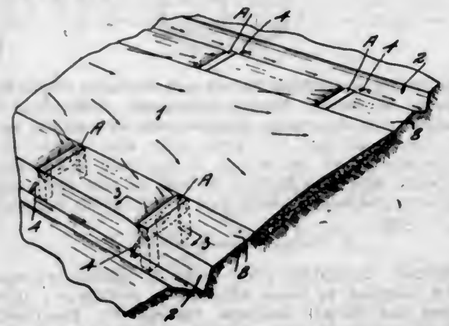
1,696,236. TYPEWRITING MACHINE. WILLIAM F. HELMOND, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Filed July 3, 1926. Serial No. 120,351. 11 Claims. (Cl. 197—139.)



11. In a typewriting machine having a revoluble platen and a carriage therefor, a paper-finger mounted on said carriage, having means to contact with said platen, and means to deflect a leading edge of a work-web towards said platen, including an arcuate paper-deflector supported at both extremities by said finger.

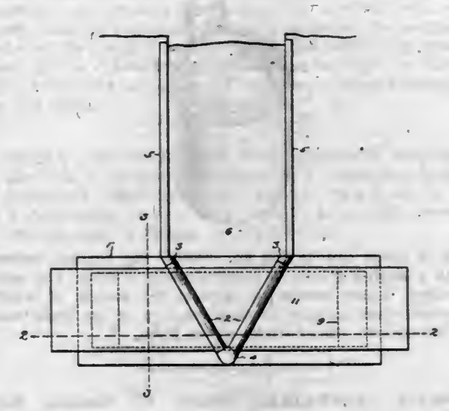
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1,696,237. MEANS FOR PROTECTING PAVED ROADS AGAINST EROSION. OTTO V. HOUGH, Warrenton, Mo. Filed Aug. 24, 1925. Serial No. 51,944. 5 Claims. (Cl. 94—33.)



5. A concrete pavement, a drainage ditch extending along the edge of said pavement and spaced therefrom and a plurality of transversely disposed drain devices for carrying water from said pavement to said ditch.

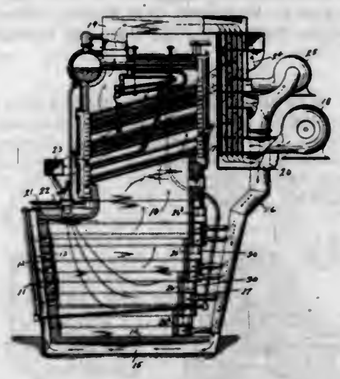
1,696,238. APPARATUS FOR GUIDING AUTOMOBILES INTO POSITION FOR SERVICE. ARTHUR C. ISBELL, Ivoryton, Conn. Filed June 30, 1928. Serial No. 289,510. 7 Claims. (Cl. 238—3.)



1. An apparatus for guiding an automobile into service position comprising a table mounted to move transversely across the service position and freely rotating rollers fixed in position and extending obliquely across said table.

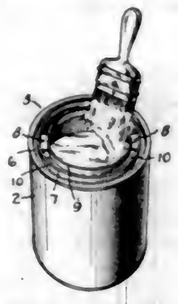
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1,696,239. FURNACE WALL. DAVID S. JACOBUS, Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company, a Corporation of Delaware. Filed July 9, 1925. Serial No. 42,367. 6 Claims. (Cl. 110—1.)



1. A furnace chamber having a wall thereof made up of a plurality of sections arranged in stepped relation, each section comprising an inner and an outer wall spaced apart to form an air duct therebetween, a fixed support beneath each section to support both said inner and said outer walls thereof, the inner wall of each section being extended upward into overlapping sliding engagement with the lower part of the inner face of the next higher section.

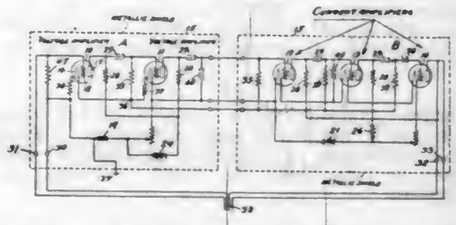
1,696,240. PAINT CAN. ALBERT G. KIRCHER, Jr., Jamaica, N. Y. Filed Nov. 5, 1926. Serial No. 146,295. 2 Claims. (Cl. 91—63.)



1. A paint can having an annular top portion formed with a sealing groove to cooperate with a cover, and with another, innner groove or channel the bottom of which is open, there being a brush-wiping lip at the inner side of this groove, substantially as set forth.

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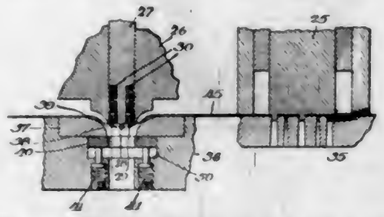
1,696,241. REPEATER. BURTON W. KENDALL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 23, 1919. Serial No. 272,627. 10 Claims. (Cl. 179—171.)



8. The method of operating an amplifier circuit which comprises arranging the input lines of said amplifier in close proximity to the output lines thereof, whereby said amplifier tends to generate oscillations and in suppressing said oscillation.

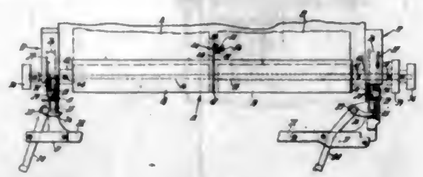
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1,696,242. METHOD OF AND APPARATUS FOR FORMING ARTICLES. FREDERIC SHIELDS KOCHENDORFER, River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 20, 1924. Serial No. 757,282. 5 Claims. (Cl. 113—42.)



1. The method of forming an article from a sheet of material, which consists in producing concentric circles of graduated perforations in the sheet in which the outer perforations are larger than the inner perforations, preliminarily forming the perforated portion, severing the formed portion from the sheet, and further forming the severed portion into an article by contracting the area of the material in proportion to its distance from a central point.

1,696,243. TYPEWRITING MACHINE. ALFRED G. F. KUKOWSKI, Brooklyn, N. Y., assignor to Underwood Elliott Fisher Company, New York, N. Y., a Corporation of Delaware. Original application filed Sept. 22, 1924, Serial No. 739,020. Divided and this application filed July 31, 1926. Serial No. 126,132. 6 Claims. (Cl. 197—129.)



4. In a typewriting machine having a platen-frame, a platen-shaft and a platen mounted thereon, the combination with a second platen rotatably mounted on said shaft in alignment with the first platen, of a disk centered upon said shaft between both platens and secured to one of the same to rotate therewith, and an annulus stationarily supported on said platen-frame and enveloping the periphery of said disk in such manner as to provide a bearing for said disk and thereby intermediately support said platens and said shaft, there being means upon both platens to locate said annulus upon said disk and also means associated with the platens to rotate either platen at will.

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1,696,244. LANTERN. DONALD E. LINDSAY, Springfield, Pa., assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 27, 1927. Serial No. 208,681. 1 Claim. (Cl. 240—11.)



A lantern, comprising bottom and top members having sockets cast in the peripheries thereof, a plurality of resilient rods detachably engaging said sockets and having their ends bent to register with said sockets, and an annular band spot-welded to the rods intermediate the ends, said band holding the rods so that their ends will enter the sockets and be held therein by the resiliency of the rods.

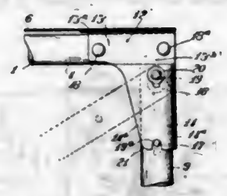
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1,696,245. FOLDING COT. FRED G. MANLY, Chicago, Ill., assignor, by mesne assignments, to George I. Goldwyn and Herman Goldwyn, Chicago, Ill., Copartners, doing business as Goldwyn Brothers. Filed Apr. 20, 1925. Serial No. 24,329. 2 Claims. (Cl. 5—314.)

1. In a folding cot, a side frame member, a substantially L-shaped bracket fixed to the frame member, said bracket being formed of a single piece of sheet metal shaped to



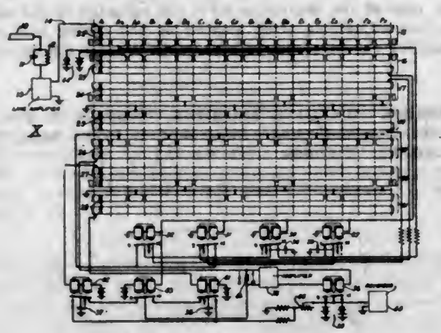
provide angularly arranged channel-shaped parts, the channels of which communicate, one of said parts being split longitudinally and the other part being unbroken and provided with oppositely disposed elongated slots and notches



aligned with such slots, a supporting leg, a pivot pin passing through the supporting leg and through said slots, and a latching pin arranged parallel to the pivot pin and adapted to engage said notches for locking the leg in a position at right angles to the side frame member.
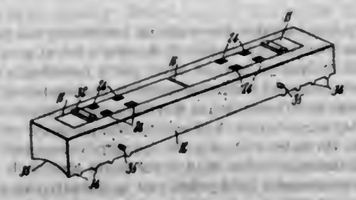
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1,696,246. TELEGRAPH SYSTEM. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 10, 1928. Serial No. 245,647. 8 Claims. (Cl. 178—70.)



1. A telegraph system comprising a line terminating in a rotary distributor, a pair of condensers arranged to be alternately charged by line current impulses, a second pair of condensers arranged to be alternately charged during successive line impulse intervals and relaying or repeating means, characterized in this that the condensers of each pair are alternately discharged through a circuit common to the members of each pair, one condenser of each pair being discharged simultaneously and the predominating charge of the condensers discharging at the same time controlling the operation of said relaying or repeating means.

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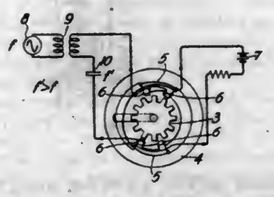
1,696,247. RAILROAD TIE. JOHN W. MCMANAMA, Waltham, Mass. Filed Mar. 1, 1928. Serial No. 258,201. 4 Claims. (Cl. 238—89.)



3. A railroad tie comprising a metal bar composed of an inverted railroad rail, the edge portions of the inverted base of the rail overhanging the inverted web and head thereof and having rail spike-receiving openings, vertical tubular bushings of compressible material, having lower ends seated on the inverted head, and upper ends seated on the overhanging portions of the inverted base, so that vertical displacement of the bushings in either direction is opposed by said head and base, the bores of the bushings registering with the spike-receiving openings in the base, and a molded concrete body enveloping the inverted web, the head, and the bushings, said body confining the bushings between the inverted base and head, and preventing expansion of the external surfaces of the bushings by spikes driven into the bores thereof, said bores being expansible by the spikes.

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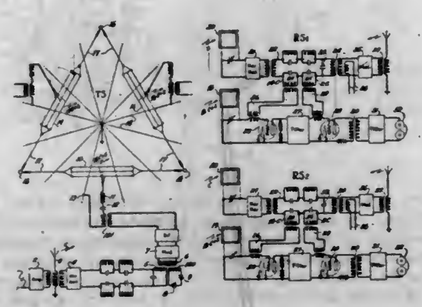
1,696,248. CIRCUITS FOR SYNCHRONOUS MOTORS. EDMUND R. MORTON, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1927. Serial No. 181,324. 8 Claims. (Cl. 172—275.)



1. A synchronous motor system in which hunting is substantially absent, comprising means in series with the motor armature for tuning the armature circuit to a frequency above the frequency of the current supplied thereto and prevent hunting action, said means serving to give the armature circuit a capacitative reactance at the supply frequency.

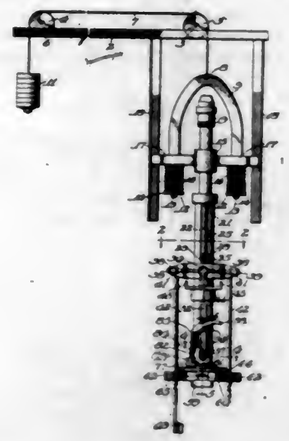
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1,696,249. ANTENNA SYSTEM. HAROLD W. NICHOLS, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 16, 1924. Serial No. 686,472. 4 Claims. (Cl. 250—33.)



1. An antenna system comprising a plurality of antennæ, means for supporting said antennæ to constitute the sides of a regular geometric figure, means for holding said antennæ spaced apart to maintain the reactions between said antennæ at a low value, whereby the system possesses a number of impedance minima equal to the number of antennæ.

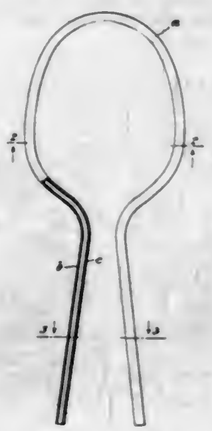
1,696,250. MACHINE FOR RAMMING MOLDS AND THE LIKE. ELAM D. PATTERSON, Coshocton, Ohio, assignor to James B. Clow and Sons, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1926. Serial No. 141,919. 26 Claims. (Cl. 22—41.)



1. In a ramming machine, a ram rod, means independent of the mold for automatically imparting motion to said rod in two directions transverse to one another simultaneously, and means rendered operative by irregularities of the material being rammed for moving said rods in a third direction.

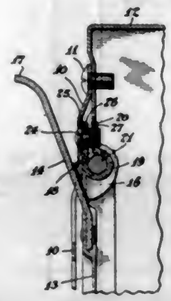
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1,696,251. METHOD OF MANUFACTURING RACKET FRAMES. HAROLD D. PENNEY, Pelham, N. Y., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Original application filed Feb. 16, 1923, Serial No. 619,413. Divided and this application filed Feb. 4, 1926. Serial No. 85,882. 2 Claims. (Cl. 153—32.)



1. The method of making a striking implement comprising bending a length of tubing of substantially rectangular cross-sectional area to form the frame of the implement of desired shape, the tubing being of metal not susceptible of tempering by heat treatment, indenting the tubing on opposed sides to provide channels thereon, and flattening the other opposed sides of the tubing thereby working the metal to provide requisite stiffness.

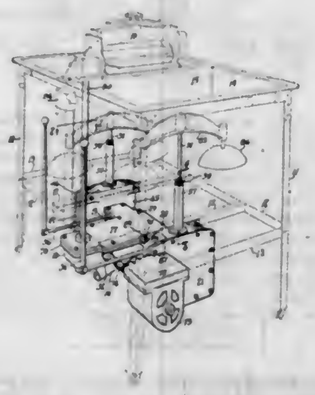
1,696,252. REGISTER. JOSEPH V. PETRELLI, New Rochelle, N. Y., assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Apr. 14, 1926. Serial No. 101,880. 6 Claims. (Cl. 98—106.)



1. A register comprising a casing, a shutter, a pair of up-standing ears carried by the shutter near the center of one edge of the shutter, a pivot pin mounted in the ears, and an adjustable strap carried by the casing and surrounding the pivot pin to adjustably support the shutter.

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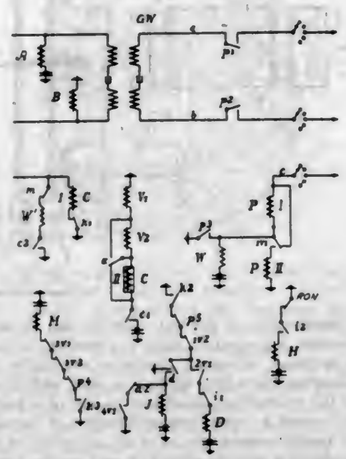
1,696,253. WASHING MACHINE. WILLIAM E. PINCKNEY, Portland, Oreg. Filed Sept. 1, 1927. Serial No. 216,822. 5 Claims. (Cl. 74—7.)



1. In a transmission for washing machines, the combination of an inclined countershaft having a bevel gear on the upper end thereof; a pair of bevel gears meshing with said first mentioned gear having a common horizontal axis, each of said last mentioned gears having a shaft upon which it is rotatably mounted, each of said shafts having a crank arm secured to its outer end; a yoke operably connected to each crank; clutches between said bevel gears and their respective cranks whereby said yokes can be operated in opposite directions or either yoke can remain stationary; a drive shaft positioned transversely across the lower end of said countershaft; a worm and wheel drive between said drive shaft and countershaft; and a housing operably supporting the above included elements.



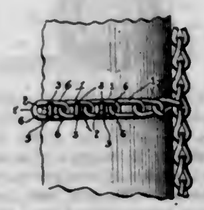
1,696,254. AUTOMATIC TELEPHONE SYSTEM. WALTER PINELL, Berlin, Germany, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Filed June 13, 1927, Serial No. 198,345, and in Germany Oct. 12, 1926. 6 Claims. (Cl. 179—18.)



1. In an automatic switch, a test relay, a switching device, and means controlled by said switching device for pre-magnetizing but not operating said test relay responsive to the seizure of said switch in order to assist said relay to operate when an idle line is encountered by said switch.

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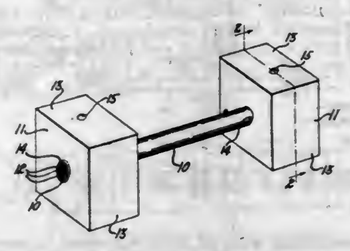
1,696,255. CROSS CHAIN FOR VEHICLE NONSKID DEVICES. JOHN R. REYBURN, Fairfield, Conn., assignor to American Chain Company, Inc., a Corporation of New York. Filed July 8, 1925. Serial No. 42,137. 5 Claims. (Cl. 152—14.)



2. A non-skid chain provided with a transverse non-skid calk of sufficient length only to bridge the sides of the chain link and welded to the outer surface of each side.

5. In a cross-chain for non-skid devices for vehicle wheels, a twisted chain link, having salient road-engaging strand portions, and a bridging calk integrated metallically with said link whereby it is constituted a permanent element of the link and presenting sharp edges at substantially the same level as the salient strand portions, and in the direction in which the force of traction is exerted, said edges projecting in substantially opposite directions with respect to each other, said contact body being adapted to be turned with the cross-chain, as the latter rolls between the tire and road in use, into position to cause one or the other of said sharp edges to engage the road surface and afford traction in either of two directions.

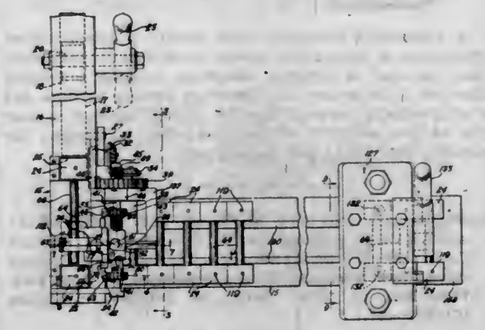
1,696,256. SPOOL AND METHOD OF MANUFACTURING SPOOLS. GEORGE LYNDEN ROCK, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 27, 1927. Serial No. 187,001. 2 Claims. (Cl. 242—124.)



1. The method of manufacturing spools having attached heads, which consists in forming an aperture in a head for the insertion of a core, forming a second aperture in the head at an angle to the longitudinal axis of the first aperture and extending only to the periphery of the first aperture and at one point thereof, inserting the core in the first aperture, inserting a member in the second aperture, and then causing the member to be driven in a direction at an angle to the longitudinal axis of the second aperture until it is wedged between abutting surfaces to thereby rigidly unite the head and the core.

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1,696,257. APPARATUS FOR ASSEMBLING ELEMENTS OF ARTICLES. GEORGE LYNDEN ROCK, Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1927. Serial No. 205,823. 12 Claims. (Cl. 1—1.)



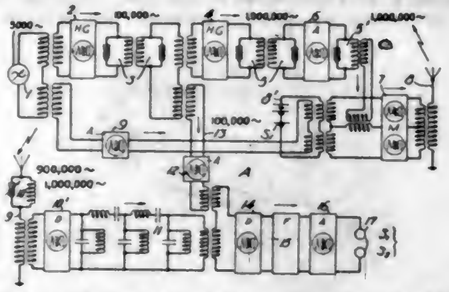
1. In an apparatus for assembling spool elements, means for positioning apertured spool heads and a connecting member in a predetermined relation, means for assembling the heads on the member, means for inserting a pin within a second aperture provided in each spool head, and means for staking the pins to rigidly attach the heads to the member.

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1,696,258. CARRIER-WAVE COMMUNICATION. JAMES W. SCHMIED, West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 29, 1922. Serial No. 571,731. 13 Claims. (Cl. 250—9.)

1. The method which consists in transmitting from each of two stations to the other on principal carrier waves, receiving said waves simultaneously at the receiver of each

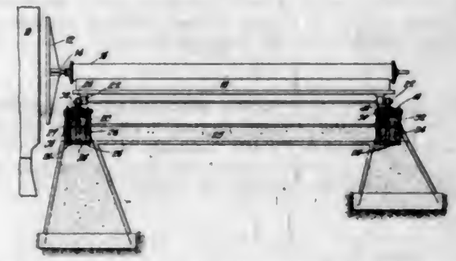
station and demodulating each with the other, selecting the demodulation products corresponding to the difference frequency of said carrier waves, demodulating said products



with a reinforcing wave of frequency equal to the difference of said carrier frequencies, and deriving said carrier waves and said reinforcing wave from the same source.

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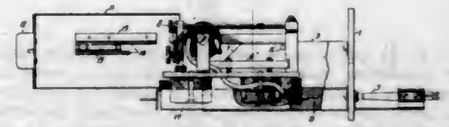
1,696,259. PUSHER TRACK FOR COKE OVENS. LLOYD F. SCHRADER, Richmond Hill, N. Y., assignor to Foundation Oven Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 31, 1926. Serial No. 132,773. 7 Claims. (Cl. 238—25.)



1. Supporting means for rails subject to lateral thrust comprising a foundation having substantially horizontal base portions at different elevations forming a vertical shoulder, a tie having complementary bearing portions and a substantially vertical shoulder portion adapted to abut the vertical shoulder of the foundation and means for securing said tie to said foundation.

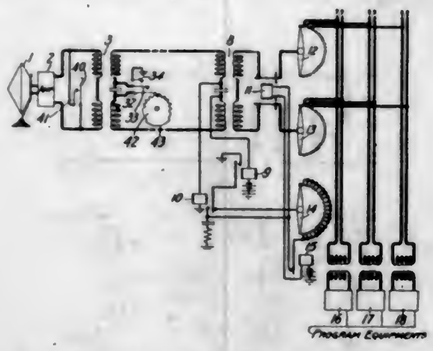
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1,696,260. CASING AND SUPPORT FOR ELECTRICAL APPARATUS. CARLETON F. SWASEY, New Canaan, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 11, 1922. Serial No. 560,069. 2 Claims. (Cl. 220—41.)



1. An apparatus mounting comprising a plate having mounted thereon a trough-like receptacle for supporting apparatus, said receptacle being provided with studs on the interior surface of its sides and an open-ended cover adapted to slide over said receptacle, said cover being provided with flanges and internally mounted resilient members cooperating with the said studs on said receptacle for securely holding said cover in place, said elements comprising the receptacle cover and fastening means being so constructed and arranged that when the cover is placed in position it will exert no strain on the apparatus placed in said receptacle.

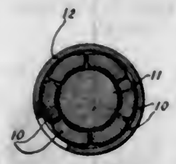
1,696,261. TRANSMISSION SYSTEM. SAMUEL B. WILLIAMS, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 9, 1927. Serial No. 211,678. 7 Claims. (Cl. 179—16.)



1. In combination, a central office having an automatic switch therein arranged to take a plurality of successive settings without releasing, circuits selectable by said switch, a subscriber's line leading to said switch, a transmitter at the substation adjustable to any of a plurality of positions to send a corresponding number of impulses over the line, means responsive to said impulses to set said switch to select a desired circuit, a dial on the transmitter indicating the circuit selected, and means controlled by the transmitter once during a complete operation for restoring the automatic switch.

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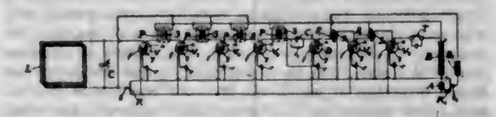
1,696,262. CONDUCTOR FOR THE TRANSMISSION OF ELECTRICAL ENERGY AND METHOD OF PRODUCING THE SAME. ADOLPH FRANCIS BANDUR, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 24, 1923. Serial No. 682,417. 13 Claims. (Cl. 178—45.)



1. A loaded signalling conductor comprising a composite metallic strand consisting of a metallic wire wrapped with metallic tape, the said tape being concave in cross section longitudinally of the tape, and a magnetic loading material wrapped around said composite strand and making only a line contact with said tape, said loading material requiring heat treatment to give it a desired electrical characteristic.

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1,696,263. RADIO APPARATUS. CHARLES E. BONINE, Melrose Park, Pa. Filed Aug. 12, 1922. Serial No. 581,306. 17 Claims. (Cl. 179—171.)



1. In a multi-stage amplifying system, the combination with successive thermionic amplifiers, of inductive means for coupling said amplifiers, the inductance of the coupling means of a later stage being greater than the inductance of the coupling means of an earlier stage.



1,696,264. PHOTOGRAPHIC SHUTTER. THEODORE M. BAUECK, Rochester, N. Y., assignor to Ilex Optical Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 4, 1926. Serial No. 152,563. 10 Claims. (Cl. 95—63.)



1. In a photographic shutter, the combination with an exposure mechanism, a master member, a connection between the master member and the exposure mechanism for effecting the opening and the closing of the shutter by the movement of the master member in one direction, a pivoted detent for holding the exposure mechanism against closing, a latch pivoted to the detent, and an actuating lever controlling the movement of the master lever to bring the detent into detaining position, of means moved by the exposure mechanism for holding the latch out of cooperative relation with the actuating lever when the shuter is closed, so that the actuating lever may be moved to control the master member in order to bring the detent into detaining position, said latch controlling means being moved by the exposure mechanism to cause the latch to move into the path of the actuating lever upon the opening of the shutter, so that the detent may be moved out of detaining position through such latch upon the next movement of the actuating lever.

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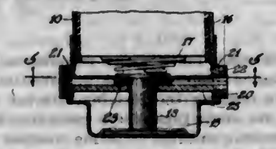
1,696,265. ACOUSTIC DEVICE. OLIVER E. BUCKLEY, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 29, 1926. Serial No. 151,299. 14 Claims. (Cl. 200—81.)



1. An acoustically controlled device comprising constricted means for receiving acoustic waves, and means controlled thereby for producing a uni-directional flow of fluid toward said constricted means.

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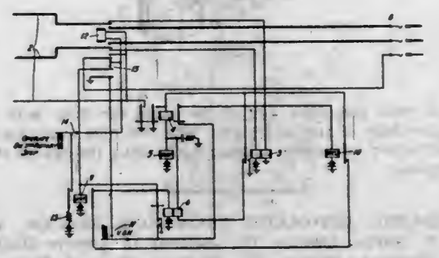
1,696,266. ELECTRICAL TESTING DEVICE. JOHN MAXWELL COOTE, Elizabeth, N. J., assignor, by direct and mesne assignments, to Coote Products Corporation, New York, N. Y., a Corporation of New York. Filed July 25, 1922. Serial No. 577,845. 8 Claims. (Cl. 175—183.)



1. A combined flash lamp and electrical testing device, comprising a casing, a lamp and battery for same contained within the casing, a receptacle member secured to the casing, a circuit controlling ring movably mounted thereon having a peripheral slit, and a contact member fitting therein and adapted to make contact with either end of the slit.

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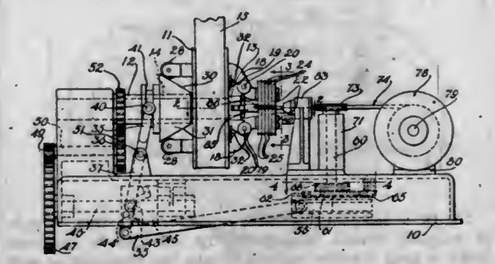
1,696,267. TELEPHONE SYSTEM. BERT G. DUNHAM, Hawthorne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed June 13, 1927. Serial No. 198,487. 8 Claims. (Cl. 179—18.)



1, In a telephone system, a two movement switch, circuits therefor, and a relay in said circuits operated in one manner during the first movement of the switch and operated in another manner during the second movement of the switch to control said second movement.

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1,696,268. APPARATUS FOR PRODUCING SOLDERING UNITS COMPRISING SOLDER AND FLUXING MATERIAL. JOSEPH WILLIAM FAY, Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1924. Serial No. 736,844. 3 Claims. (Cl. 80—23.)



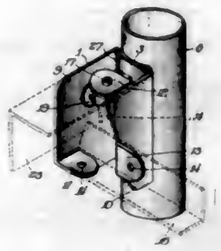
3. In an apparatus for forming cored solder units, forming rollers having cooperating edges, means for intermittently feeding solder having a core of fluxing material into a predetermined position with respect to the rollers, means cooperating with the intermittent feeding means to move the rollers into contact with a portion of the solder positioned by the feeding means, and means for revolving the rollers about the solder to form a spherical pellet of solder having a core of fluxing material sealed within a shell of solder.

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1,696,269. CORNER LOCK. MARTIN FOX, Chicago, Ill., assignor to The Seng Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 9, 1923. Serial No. 630,756. 12 Claims. (Cl. 5—288.)

1. In a corner lock, a sheet metal housing having one side with an inside projection and its upper edge at a

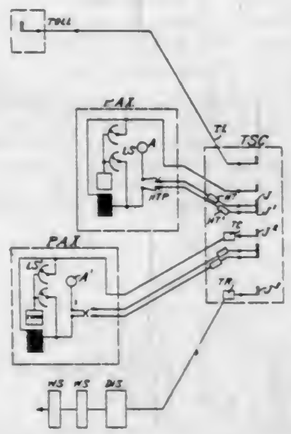
height slightly above and spaced from the other side, and an angle bar side rail having a notch in one edge for engagement with the projection at the side of the housing



and with the other web of the angle bar flush with the upper edge of the said higher side and also engaging the said other side of the housing for binding the spaced sides together.

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1,696,270. AUTOMATIC TELEPHONE SYSTEM. ROY F. GOULD, Chicago, Ill., assignor to Reserve Holding Company, Chicago, Ill., a Corporation of Delaware. Filed Dec. 1, 1926. Serial No. 151,907. 13 Claims. (Cl. 179—27.)

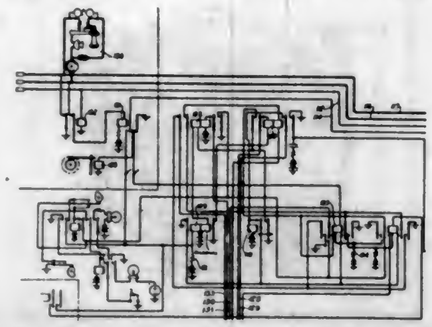


10. In a telephone system, a subscriber's line, a pair of hospital trunks terminating in one end in separate jacks, a plug common to said trunks for terminating said trunks at the other end, and a cord circuit adapted to complete a connection to said line through the medium of said plug when the line is called, said connection including the first of said trunks, said cord circuit, and the second of said trunks in series in the order named.

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1,696,271. CALL-CHARGING TELEPHONE-EXCHANGE SYSTEM. ALFRED E. HAGUE, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 26, 1927. Serial No. 228,715. 10 Claims. (Cl. 179—9.)

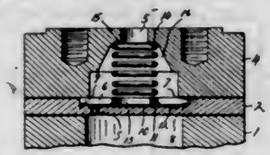
1. In a telephone exchange system, a calling line, a plurality of called lines of different classes, selector switches for extending the calling line to said called lines, means for selectively operating said switches, means associated with one of said switches for altering circuits thereof in accordance with the class of the called line, a charging device for the calling line, a timing switch, means operative upon the response of the called subscriber to advance said timing switch through a plurality of positions, means controlled in the advance of said timing switch in accordance with the setting of said altering means to variably operate said charging device, an interrupter, and



means controlled by said interrupter to thereafter advance said timing switch slowly into normal position to measure off a predetermined conversational period, said timing switch advancing through similar cycles to repeatedly operate said charging device until said connection is released.

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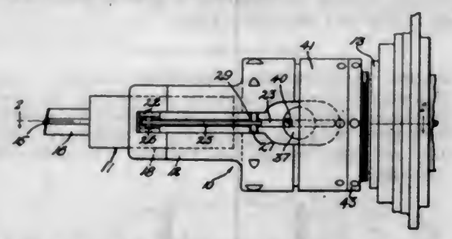
1,696,272. PUMP-VALVE ASSEMBLY. FRED J. HEIDEMAN, Detroit, Mich., assignor to Thomas C. Whitehead, Detroit, Mich. Filed Oct. 4, 1926. Serial No. 139,431. 14 Claims. (Cl. 251—119.)



1. A valve assembly comprising a plate having a recess therein provided with openings in the base thereof, a ridge between said openings and the adjacent walls of said recess, and means for controlling the flow of fluid through said openings including a pair of superposed wafer valves, the upper valve having its marginal portions normally seated upon said ridge and the lower valve having its marginal portions normally resting against the base of said ridge and closing said openings.

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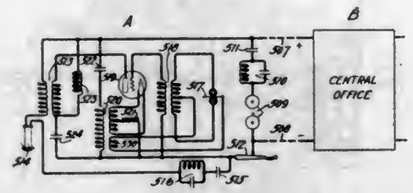
1,696,273. MECHANISM FOR WORKING PULPOUS MATERIAL. HELGO WIGGO JESPERSEN, Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 16, 1924. Serial No. 713,704. Renewed June 14, 1928. 19 Claims. (Cl. 92—41.)



1. In a mechanism for working pulpous material on a core, a forming member mounted intermediate its ends, and means for rotating the forming member around the core to cause the centrifugal force generated by one portion of the forming member to bring another portion of the forming member into pressing engagement with the pulpous material.



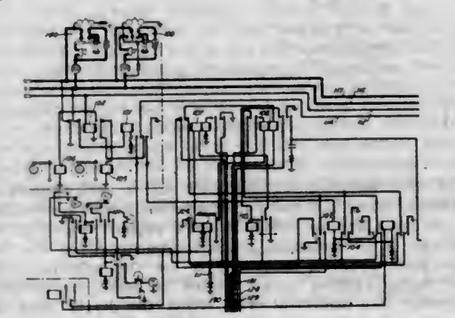
1,696,274. SUBSTATION CIRCUITS. KENNETH S. JOHNSON, Jersey City, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 30, 1926. Serial No. 151,627. 12 Claims. (Cl. 179—81.)




1. In a telephone exchange system, a central office, substation apparatus associated therewith including means to receive and produce speech currents, a space discharge amplifier at said substation in cooperative relation to said speech current receiving and producing means, a source of direct current and a source of alternating current at said central office, a common means to transmit current from said alternating current source to said amplifier and to apply a potential from said direct current source to said amplifier and means to transmit said speech currents from said producing means to said amplifier.

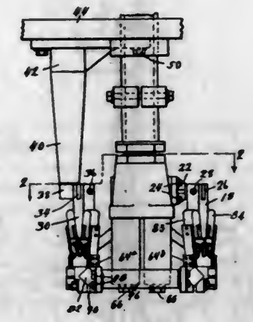
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1,696,275. CALL-CHARGING TELEPHONE-EXCHANGE SYSTEM. LEWIS H. JOHNSON, Madison, and ALFRED E. HAGUE, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 20, 1927. Serial No. 227,396. 16 Claims. (Cl. 179—9.)



1. In a telephone exchange system, a calling line, a called line, means for extending said calling line to said called line, a call charging device for said calling line, means for measuring the number of unit periods of conversation elapsing from the time the called subscriber responds until the calling subscriber hangs up, a recording means operative by said last means, a circuit for operating said charging device, and means controlled by said measuring means to close said circuit a number of times in accordance with the record set up on said recording means.

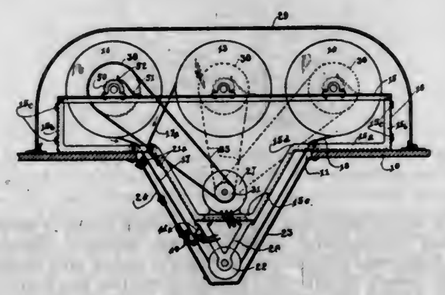
1,696,276. MULTIBREAK ELECTRIC SWITCH. ARTHUR C. KELLE, Canton, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1925. Serial No. 19,988. 14 Claims. (Cl. 200—150.)



1. A movable switch member for a multibreak electric switch comprising a movable supporting structure having a pair of oppositely-directed arms, an insulating rod carried by each arm and extended transversely thereof and in opposite directions therebeyond, arcing members carried at both ends of said rods, and means carried by said movable structure arranged electrically to connect the arcing members on similar ends of said rods.

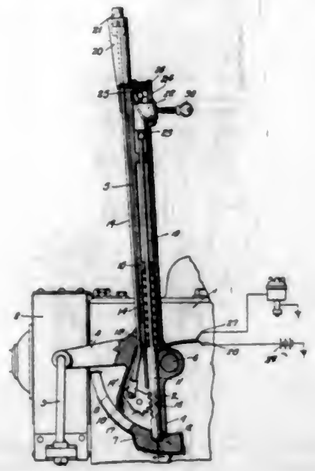
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1,696,277. STREET-STOP SIGNAL FOR VEHICLES. CHARLES WALTER KLEMENT, Toronto, Ontario, Canada. Filed Oct. 31, 1927. Serial No. 230,003. 9 Claims. (Cl. 40—53.)



1. In a street stop indicator, a pair of spaced reels having a belt wound thereabout and extending therebetween, means including an electric motor for alternately driving one of said reels, a main electric circuit including said motor therein, a switch mechanism in said circuit co-acting with said belt and adapted for breaking said circuit at regular distance intervals travelled by said belt, a second circuit and a button therein for starting said motor when said main circuit is broken by said switch mechanism, and a third circuit and a switch mechanism therein co-acting with said belt and adapted for electrically connecting said motor to the source of electricity when said belt travels in a predetermined direction and when said first-mentioned switch mechanism breaks said first-mentioned circuit.

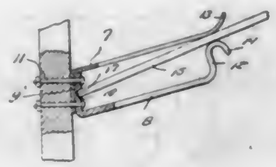
1,696,278. AUTOMOBILE LOCK. MALCOLM A. MCKAY, Kansas City, Mo., and EARL E. DOUDNA, Kansas City, Kans. Filed May 23, 1927. Serial No. 193,406. 6 Claims. (Cl. 70—127.)



6. In combination with the ignition circuit and the brake of an automobile, a brake-actuating lever, a keeper for holding the lever in set position, key-actuated means for locking the lever in set position, and means actuated by the key-actuated means for opening and closing the ignition circuit when the lever is in set position.

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1,696,279. TRAIN-ORDER-HOOP HOLDER. GEORGE E. MADSEN, Weston, Iowa. Filed Dec. 2, 1927. Serial No. 237,206. 1 Claim. (Cl. 258—26.)

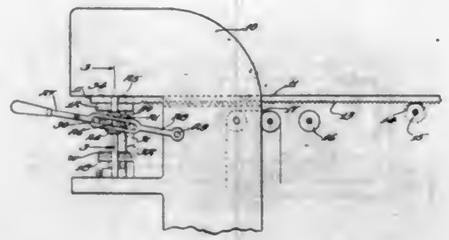


A handle supporting bracket comprising a pair of spaced apart substantially parallel bracket members disposed in superposed relation and having one end of each thereof bent toward the other in overlapping relation and provided with aligned bolt attaching openings, said end of the lower member having a recess formed therein adapted to receive the end of a handle, the other ends of said members being freely disposed with the lowermost member having its free end bent upwardly in proximity to said upper member and each of said members having the extremities of the free ends bent away from each other, whereby to facilitate the insertion of the handle therebetween.

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1,696,280. PRINTING MACHINE. SKIDMORE O'HARA, Waltham, Mass., assignor to O'Hara Waltham Company, Waltham, Mass., a Corporation of Massachusetts. Filed July 8, 1927. Serial No. 204,272. 5 Claims. (Cl. 101—41.)

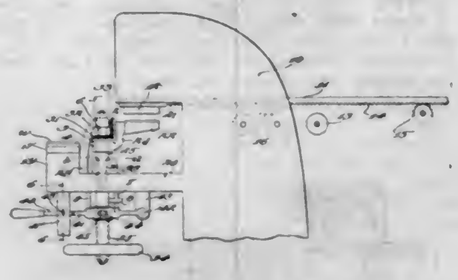
1. In a printing apparatus, a die, and a work support in vertical alinement with each other, a printing member mounted to rotate on a horizontal axis, a vertically slidable mount in which said printing member is journalled, a lever having operative connection with said slidable mount whereby the said slidable mount and the printing member may be moved up and down, and means whereby



the printing member is automatically turned at each stroke in either direction so that on one stroke its operative face will engage the die and on its reverse stroke it will engage the work.

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1,696,281. PRINTING MACHINE. SKIDMORE O'HARA, Waltham, Mass., assignor to O'Hara Waltham Company, Waltham, Mass., a Corporation of Massachusetts. Filed July 8, 1927. Serial No. 204,273. 6 Claims. (Cl. 101—41.)



1. In a printing machine, a die and a work support at different elevations and out of alinement with each other, a printing member mounted on a support which is rotatable in a horizontal plane intermediate the die and the work support, said support for the printing member being adapted to be rotated to bring the printing memoer into alinement with either the die or with the work, means whereby when the printing member is shifted from its position in alinement with the die to the position in alinement with the work, the said printing member will be inverted to bring the printing face toward the work and when it is moved from alinement with the work to alinement with the die, the printing face will be reversed in position so as to face the die.

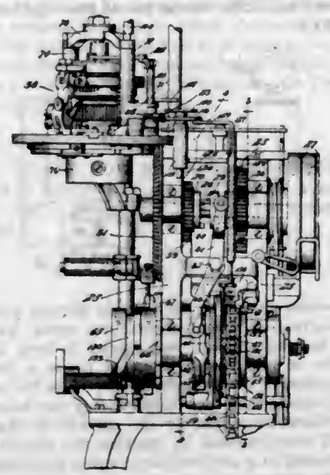
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1,696,282. KNITTING MACHINE. NAPOLEON J. PERRY, Nashville, Tenn., assignor to May Hosiery Mills, Nashville, Tenn., a Corporation of Tennessee. Filed Feb. 6, 1917. Serial No. 146,917. Renewed Apr. 10, 1928. 50 Claims. (Cl. 66—24.)

1. In a knitting machine, a dial cap having a radially movable projecting cam for the needles, a retracting cam



and a guard cam, the projecting cam lying at one side of the path for the needle butts and the guard and retracting cams at the opposite side, and the latter cams being spaced



from each other, and means moving with the projecting cam to close the space between the other cams, substantially as set forth.

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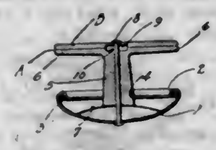
1,696,283. ANGLE COCK. BERT PRATT, Chicago, Ill. Filed Sept. 21, 1925. Serial No. 57,763. 4 Claims. (Cl. 251—165.)



1. A device of the character described comprising a valve body, a valve rotatably mounted in said body, a rotatable cap connected to said valve, said cap being substantially equal in size to the upper end of and resting upon said valve body to be supported thereby, a handle having a portion surrounding said cap and pivotally connected thereto at one side thereof to swing in a vertical plane, means for locking said handle against horizontal movement when in its lower position, said handle being adapted to be raised to release said locking means to permit rotation of said cap, said cap extending upwardly from said valve body a greater distance than said handle when the latter is in lower position.

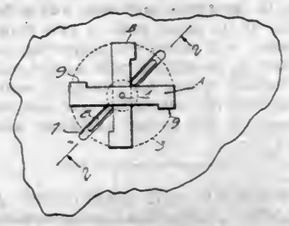
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1,696,284. FASTENING DEVICE. FREDERICK C. RILE, Chicago, Ill. Filed Feb. 6, 1928. Serial No. 252,243. 6 Claims. (Cl. 24—109.)



1. A fastening device comprising a base, a stationary arm secured to the base, and a movable arm disposed between the base and said stationary arm for cooperating with said stationary arm.

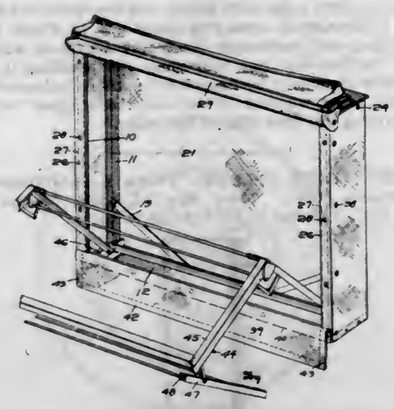
1,696,285. FASTENING DEVICE. FREDERICK C. RILE, Chicago, Ill. Filed Mar. 12, 1928. Serial No. 261,161. 5 Claims. (Cl. 24—109.)



1. A fastening device comprising a base, a stationary arm and a movable arm spaced away from the base, means for holding the stationary arm in spaced relation with respect to the base, sleeve means integral with said movable arm and rotatable about said first named means, housing means disposed between said movable and stationary arms and the base and closing a portion of said sleeve means, and spring means disposed within said housing means and bearing against said sleeve means for holding the movable arm in locked engagement with said stationary arm.

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1,696,286. COMBINED TENT, BED, AND CASE. JOSEPH I. SMITH, Ogden, Utah. Filed Apr. 27, 1925. Serial No. 26,230. 5 Claims. (Cl. 5—119.)



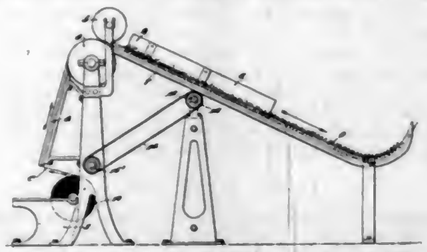
1. A relatively tall substantially vertical stationary case adapted to be mounted upon a portion of an automobile or the like, said case being closed except at its outer side, a folding bed embodying inner and outer bottom sections having their inner ends hinged together so that the outer bottom section may be swung vertically transversely with relation to the inner bottom section, means for pivotally connecting the inner end of the inner bottom section with the bottom of said case so that the inner bottom section may be swung vertically and transversely with relation to said case, said case projecting above the bottom sections when they are horizontally arranged and adapted to receive the bottom sections when they are in the vertical collapsed condition, means for supporting the outer bottom section when in the horizontal position, a substantially vertical support carried by the outer bottom section, and a tent to cover the bed, said tent including a top, sides, and end, said top having a pocket to detachably engage over the top of the substantially vertical case, said end engaging over the support, means for attaching the inner ends of the sides of the tent to the ends of the case, one side being movable to afford ready access to the bed.

3. A case comprising a base, a top formed of a sheet having its material at its edges bent downwardly and inwardly to provide horizontal flanges and then downwardly at the

inner ends of the horizontal flanges to provide vertical flanges, said vertical flanges forming in effect a frame, posts connecting the base and said frame, a section of flexible material covering the back and ends of the case and attached to the frame and base, and a flexible front cover attached at its upper ends to said frame and provided at its sides with extensions projecting over the ends of the case and at its bottom with an extension projecting beneath the base, means for detachably connecting said side extensions with the ends of the case, and means for detachably connecting the bottom extension with the said base.

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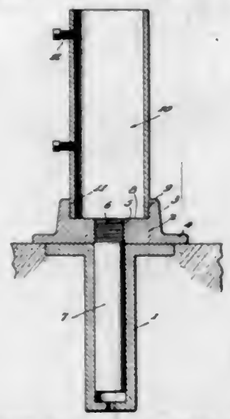
1,696,287. MACHINE FOR INSPECTING AND BUNDLING CLOTH. ALEXIS SOMMARIPA, Buffalo, N. Y., and LOUIS G. ROBERTS, Nashua, N. H. Filed Apr. 17, 1926. Serial No. 102,802. 11 Claims. (Cl. 26—70.)



1. In a machine of the character described, the combination of a cloth inspection stand, a scray upon which the cloth is discharged from said stand and in which it accumulates, and mechanism for taking the cloth substantially continuously from said scray and bundling it, said inspection stand and mechanism being driven independently of each other whereby either may be stopped without interrupting the operation of the other.

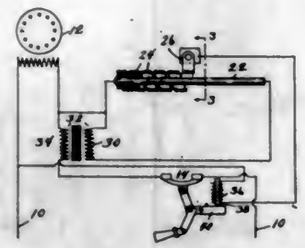
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1,696,288. TREE HOLDER. FRANK KARL UNDERWOOD, Oskaloosa, Iowa. Filed May 17, 1926. Serial No 109,710. 2 Claims. (Cl. 189—28.)



1. In a tree holder of the class described, the combination with a socket to be permanently anchored in situ and having its bottom formed with an outlet, of a base comprising a body having a recess in its upper face, the base having a flat under face to engage the surface of the material in which the socket is embedded and rest upon the upper end of the socket, a hollow stem carried by and projecting downwardly from the base and removably fitted into the socket, the upper end of said stem communicating with said recess whereby the stem constitutes a drain for the recess, and a tubular tree trunk-receiving socket member disposed vertically and having its lower end fitted into the said recess.

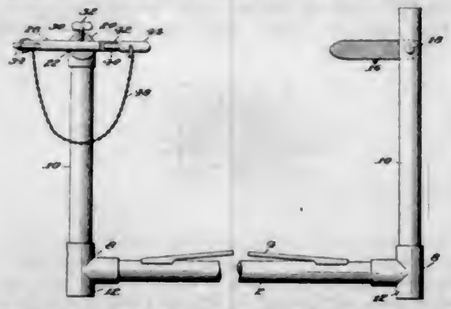
1,696,289. PROTECTIVE APPARATUS AND SYSTEM. JOSEPH D. WOOD, Wollaston, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed July 24, 1925. Serial No. 45,930. 9 Claims. (Cl. 175—294.)



1. Protective apparatus for electric circuits including a thermally-actuated, circuit-controlling relay having an electrical heating element, and means to keep down the temperature of said heating element below a destructive value regardless of the strength of current in the circuit including a transformer to furnish energy for heating said heating element energized by the current in the electric circuit and characterized by limiting the current in the heating element at a predetermined value regardless of the degree of energization of the transformer.

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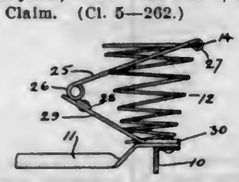
1,696,290. WHEEL-ALIGNING GAUGE. CAPELLE HATCHER ARCHER, Tampa, Fla. Filed Aug. 27, 1927. Serial No. 215,869. 5 Claims. (Cl. 33—203.)



2. A device of the character described comprising a supporting base member, vertical standards arising form each end of said base member, one of said standards being provided with a stop for engaging the felloe of a vehicle's wheel, the other standard being provided with a transverse head, a plurality of members slidably mounted in said head towards and from the opposite wheel, a common connecting bar pivotally attached to the outer ends of said members, means retaining certain of said members in adjusted position in said head, and a gauging member adapted to be selectively positioned upon the inner ends of each of said members and brought into contact with the felloe of the wheel.

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1,696,291. STABILIZER FOR BEDSPRINGS. JEROME T. ATKINSON, Bayside, N. Y. Filed Feb. 7, 1927. Serial No. 166,377. 1 Claim. (Cl. 5—262.)



In a furniture spring having a bottom frame, a series of coiled springs seated thereon and reinforcing side rods connecting certain of the coiled springs, the combination with V-shaped stabilizers therefor; each of said stabilizers comprising a flat member and a round wire member, said wire member having an eye pivotally engaging one of the said rods, a loop formed on the wire member secured to one end of the flat member to form an elbow therewith, the other end of the flat member being bent to provide a foot secured to the bottom frame, said members being flexible, thereby permitting a vertical movement of the side rods when under a load, substantially as set forth.



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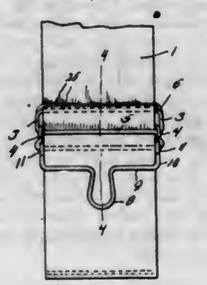
1,696,292. CLASP FOR BRACELETS OR THE LIKE. CHARLES H. BATCHELDER, North Attleboro, Mass. Filed Feb. 8, 1927. Serial No. 166,776. 2 Claims. (Cl. 24—230.)



1. In a chain bracelet or neck chain, or the like, a clasp made up of cooperating end members, one member made up of a face plate of another, from which face plate a hook depends, the said other member comprising a box element having an opening in its upper outer wall to receive the hook and means to detachably secure the hook against accidental return movement of the hook.

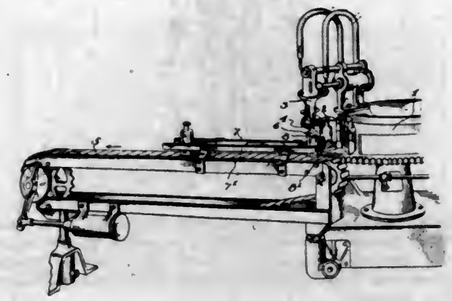
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1,696,293. BUCKLE. GEORGE W. BROWN, Bloomington, Ill. Filed May 25, 1928. Serial No. 280,445. 2 Claims. (Cl. 24—73.)



1. As a new article of manufacture, a buckle having an open rectangular body member, with intermediate eyes at the sides thereof, an open rectangular clamping member having a lower bar journaled in said eyes of the body member, and a pendent loop member including a loop shaped tab, arms reaching laterally in opposite directions from the ends of said tab, and upright portions reaching from the outer ends of said arms and terminating in eyes loosely receiving the lower bar of the body member whereby said pendent loop member is pivotally connected to the body member.

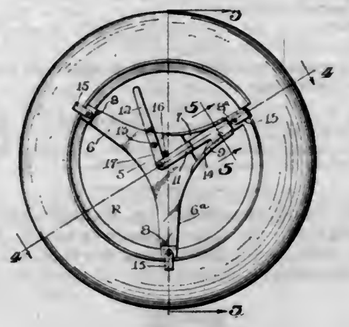
1,696,294. BOTTLE-TURNING MECHANISM. GEORGE C. CRAWFORD and JOHN R. BRIDGES, Zanesville, Ohio, assignors to Hazel-Atlas Glass Co., Wheeling, W. Va., a Corporation of West Virginia. Filed Dec. 21, 1925. Serial No. 76,772. 6 Claims. (Cl. 214—1.)



1. A device of the character described, including movable means for transporting a glass article from a forming machine to a conveyer, and means arranged to intercept the glass article and turn it through a desired angle while it is held by said movable transporting means.

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1,696,295. COMBINATION SPARE-TIRE CARRIER AND RIM TOOL. REX JAMES DUNHAM, Oshkosh, Wis. Filed Nov. 17, 1926. Serial No. 148,879. 2 Claims. (Cl. 224—29.)



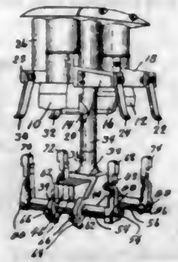
1. In a combined spare tire carrier and rim tool, a mounting plate provided with radial arms, one of said arms including a radially and laterally movable outer arm section having a rim seat on its outer end, further rim seats rigid with the outer ends of the remaining arms, and manually operable means for moving said movable outer arm section including an operating lever pivoted to the mounting plate, rim flange engaging hooks carried by the sides of the rim seats positionable to project outwardly for use in contracting a rim, and means associated with said lever for releasably holding the movable arm section in either its outer or inner limit of movement.

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1,696,296. MULTIBREAK ELECTRIC SWITCH. WILLIAM S. EDSALL, Boston, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 1, 1925. Serial No. 19,990. 22 Claims. (Cl. 200—150.)

1. An electric switch having a pair of spaced stationary switch members, a movable switch member including a rod

disposed between said stationary switch members, a bridging member carried by the lower end of said rod below said stationary switch members and adapted to bridge them, a plurality of arcing members carried by said rod and



disposed symmetrically about and insulated from said bridging member, a corresponding plurality of stationary arcing members cooperating with said movable arcing members and disposed symmetrically about said stationary switch members.

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1,696,297. COMPOUND FOR TEMPERING TOOLS AND TOOL STEEL. JOHN F. EDWARDS, Warren, Ark. Filed Dec. 13, 1926. Serial No. 154,657. 1 Claim. (Cl. 148—28.)

A liquid bath for quenching tool steel, consisting of the following ingredients in the following approximate proportions:

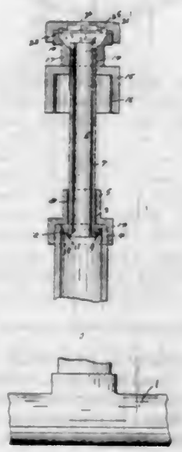
| | | Approximate metric equivalents. |
|---|---|---|
| Glycerin | 3 fluid ounces | 96 c. c. |
| Sweet spirit of nitre | 1½ fluid ounces | 48 c. c. |
| Ammonium chloride | 1½ ounces | 48 gm. |
| Zinc sulphate | 1½ ounces | 48 gm. |
| Aluminum and ammonium sulphate | 1½ ounces | 48 gm. |
| Water | ½ gallon | 2,000 c. c. |

of the foregoing two fluid ounces is added to one gallon of water containing:

| | | |
|---|---|---|
| Glycerin | 1 fluid ounce | 32 c. c. |
| Sodium chloride | ½ ounce | 16 gm. |
| Aluminum ammonium alum | ½ ounce | 16 gm. |
| Copper sulphate | ¼ ounce | 4 gm. |

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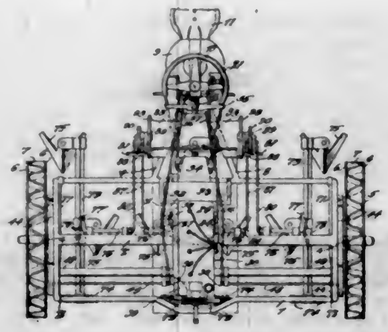
1,696,298. DISAPPEARING OR TELESCOPIC LAWN SPRINKLER. WILLIAM HERBERT GRAHAM, Oakland, Calif. Filed Dec. 7, 1925. Serial No. 73,571. 5 Claims. (Cl. 299—61.)



1. In a disappearing sprinkler, a vertical pipe connected to a controlled source of water pressure, an element slidable relative thereto having a sprinkler head at one end thereof and projecting upwardly when the pressure becomes active upon the sprinkler head and an operative connection between the said element and the pipe limiting the upward motion of the former and made to allow water to escape therethrough while the element moves relative to the pipe with a hood on the said element causing the escaped water to flow down the outside of the element and the pipe for cleaning both of them.

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1,696,299. AGRICULTURAL MACHINE. HOWARD H. GREEN, Bardwell, Tex. Filed June 10, 1926. Serial No. 114,997. 1 Claim. (Cl. 97—240.)



In an agricultural machine, a main frame, ground-engaging instrumentalities carried by the main frame and movable vertically into and out of engagement with the ground, rock shafts mounted over the respective instrumentalities and each connected at one end with one of said instrumentalities, a crank arm for each shaft, a bracket carried by said frame rearwardly from said rock shafts and having an upstanding portion constituting a rack, a pivot element carried by said bracket and extending transversely therefrom, a lever loose upon said pivot adjacent said bracket and having a tooth engageable with the rack to releasably hold the lever in a set position, said lever having a hub extension and a rack extending upwardly therefrom at the opposite side of the lever from the first rack, a second lever loose upon said pivot and having a tooth engageable with the second rack to releasably connect the levers for unitary movement and permit independent movement of the levers, and rods connecting said levers with the crank arms of said shafts whereby movement of the levers will rotate the shafts to vertically adjust the ground-engaging instrumentalities.

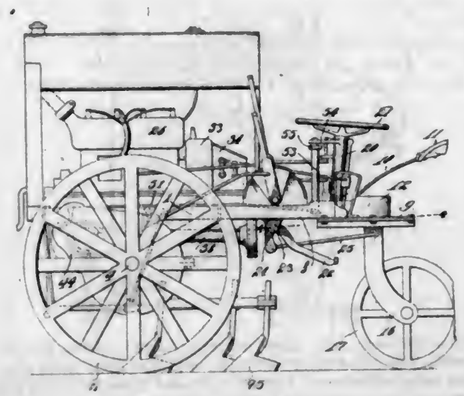
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1,696,300. STEERING MECHANISM. HOWARD H. GREEN, Bardwell, Tex. Original application filed June 10, 1926, Serial No. 114,997. Divided and this application filed Nov. 26, 1926. Serial No. 150,983. 1 Claim. (Cl. 180—17.)

In an agricultural machine, a frame, a platform at the rear of said frame, traction wheels adjacent the front of the frame at opposite sides thereof, a steering wheel adjacent the rear of the frame rotatably mounted and pivotally connected with the frame beneath the platform, control means for the steering wheel including a steering column rising from the platform and a hand wheel at the upper end of the column, means for imparting rotary motion to said traction wheels including a differential and shafts extending therefrom, and brake means including



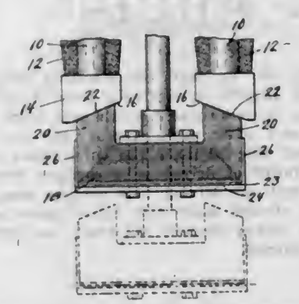
rocker shafts extending longitudinally of the differential shafts and each provided with a turning arm, rods extending longitudinally of said frame with their forward ends engaged with said arms, a post disposed vertically in front of said steering column with its lower end rotatably



connected with the platform, a bearing for the upper end of the post extending from said column, a cross bar rigid with the post adjacent its lower end and extending from opposite sides thereof with its end engaged with the rear ends of said rods, and a handle bar rigid with the upper end of the post and projecting from opposite sides thereof.

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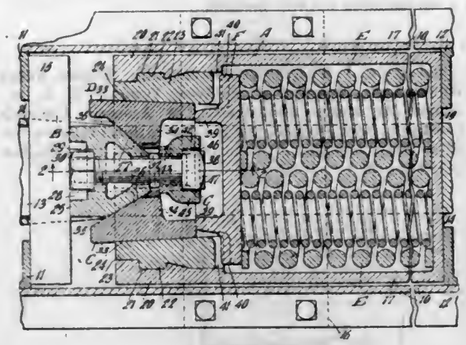
1,696,301. CONTACT STRUCTURE FOR ELECTRIC SWITCHES. TALMA T. GREENWOOD, East Templeton, Mass., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass., a Corporation of Massachusetts. Filed May 29, 1925. Serial No. 33,847. 7 Claims. (Cl. 200—165.)



5. An electric switch including a pair of stationary switch members terminated in fixed contact members provided with downwardly and outwardly inclined contact faces, and a movable switch member including a brush member disposed beneath said stationary switch members, and comprising in intermediate section and opposed uptsanding toe-sections arranged approximately at right angles with said intermediate section, said toe-sections having downwardly and outwardly inclined contact faces adapted to engage the contact faces of said fixed contact members approximately in the line of said stationary switch members, the inclined contact faces of said fixed contact members characterized by providing abutment faces against which the toe-sections of said brush member are pressed by the magnetic forces acting in said toe-portions.



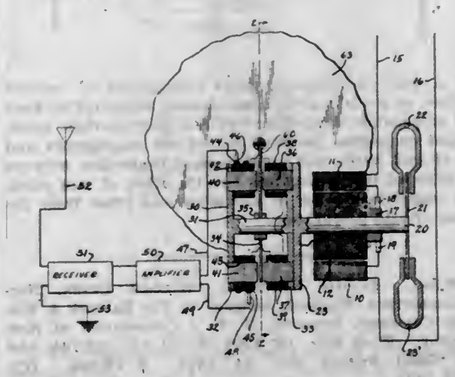
1,696,302. FRICTION SHOCK-ABSORBING MECHANISM. STACY B. HASELTINE, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 16, 1927. Serial No. 168,559. 1 Claim. (Cl. 213—32.)



In a friction shock absorbing mechanism, the combination with a friction shell, spring resistance, friction shoes, and wedge; of means for retaining the parts in assembled, desired overall length, said means comprising: a retainer bar disposed within the shell and having shouldered engagement with the latter to limit the outward movement of said bar, a bolt shank threaded in its outer end and extending outwardly from said bar, said bolt shank being maintained against rotation with respect to said bar and having its outer end received within the wedge, and a nut threaded on the outer end of said shank, said wedge having a relatively deep recess of greater diameter than the nut and within which a portion of the latter is normally contained, said wedge having also a relatively shallow socket at the bottom of said recess, said socket conforming to the shape and size of the nut and receiving a portion of the latter therein to prevent rotation of the nut; and means extending over the outer end of the nut to prevent the nut from accidentally becoming unseated from said socket.

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1,696,303. METHOD OF SOUND PROPAGATION. MILLER REESE HUTCHISON, Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Mar. 9, 1927. Serial No. 173,857. 8 Claims. (Cl. 179—108.)

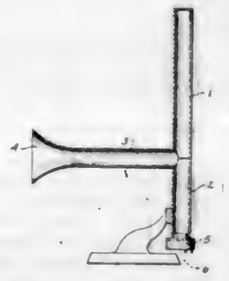



7. In a loud speaker, a constant speed prime mover, a rotatable shaft driven thereby, a magnetically inert disc rotatably mounted on said shaft, means for positioning said disc in fixed longitudinal position with respect to said shaft, a magnet affixed to said shaft and rotatable there-

with for producing a magnetic field of force intercepting the periphery of said disc for exerting a torque of said disc during rotation of said shaft, an electric circuit arranged to modify the action of said magnetic field with respect to said disc in accordance with a signal, and a diaphragm controlled by said disc for producing compressional waves in a surrounding natural medium.

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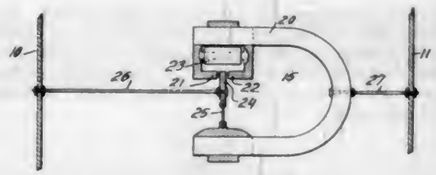
1,696,304. MULTITUNED HORN. MILLER REESE HUTCHISON, Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed May 24, 1927. Serial No. 193,813. 10 Claims. (Cl. 181—27.)



1. A sound reproducing device comprising a plurality of resonating chambers, one of said chambers being tuned to a definite fundamental frequency, and the others of said chambers being tuned to overtones thereof, and means for imparting sound waves to each of said chambers.

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1,696,305. ELECTROMAGNETIC SOUNDING-BOARD ACTUATOR. MILLER REESE HUTCHISON, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 1, 1927. Serial No. 180,183. 6 Claims. (Cl. 179—116.)

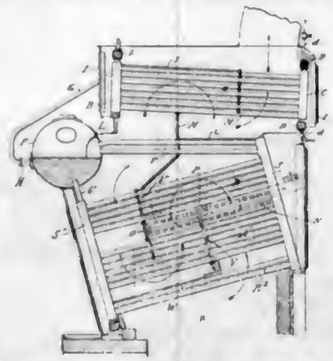


3. A pair of vibratory sound propagators in opposed relation, an electromgangetic unit flexibly supported between said propagators comprising two relatively movable parts, a rigid connection between one of the propagators and one of said parts, and another rigid connection between the other of the propagators and the other of said parts, said connections being in alinement and offset from the center of said propagators.

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1,696,306. FLUID HEATER. WILLAM INNES, Northumberland, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 19, 1921, Serial No. 453,764, and in Great Britain Mar. 24, 1920. 3 Claims. (Cl. 122—444.)

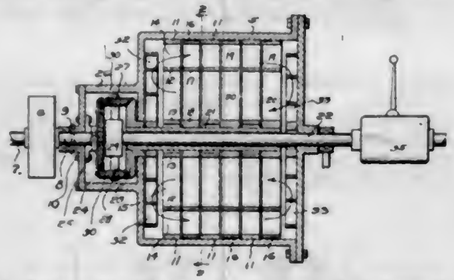
1. The combination with a steam boiler, of an economizer heated by the gases leaving the boiler, said economizer having vertically extending headers at both ends thereof connected by horizontally disposed tubes, an inlet connection for feeding all of the water supplied to the boiler into the upper ends of all the inlet headers, an outlet connection for feeding to the boiler the water from the same ends of the outlet headers as it enters the inlet headers, said inlet and outlet headers being unconnected



except through said tubes, an economizer setting for receiving the gases from the boiler and directing them over said economizer tubes and in a general direction from the outlet of the economizer towards the inlet thereof.

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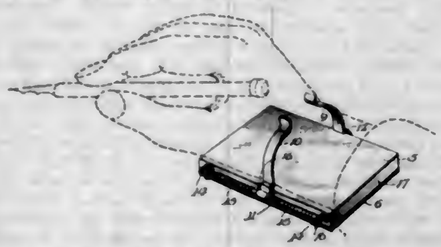
1,696,307. HYDRAULIC POWER-TRANSMISSION DEVICE. CLAYTON D. JAMES, Lyon Village, Va. Filed Apr. 22, 1927. Serial No. 185,851. 6 Claims. (Cl. 60—54.)



1. A device of the character described comprising a driving drum adapted to receive a body of fluid, a plurality of vane carriers secured within said drum in spaced relation to each other, each of said vane carriers comprising radially aligned inner and outer vanes of reverse pitch, a plurality of driven vane carriers between and alternating with the driving vane carriers each comprising radially aligned inner and outer vanes of reverse pitch and a driven element by which the driven vane carriers are carried.

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1,696,308. BLOTTING DEVICE. MARSHALL EDWARD KEIO, Chicago, Ill. Filed Feb. 12, 1926. Serial No. 87,757. 7 Claims. (Cl. 120—25.)



1. A blotting device comprising a back, means for holding a blotting sheet thereon, a clasp whereby the back



may be removably secured to the wrist comprising a pair of strips pivoted to the sides of the back, and springs applied to the strips to press them into their operative position.

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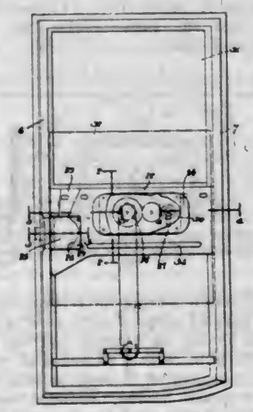
1,696,309. ELEVATOR SYSTEM AND APPARATUS IN CONNECTION THEREWITH. FRANCIS LANE, Brierley Hill, and WILLIAM ARTHUR MACHIN, Birmingham, England. Filed Mar. 19, 1926, Serial No. 96,052, and in Great Britain Apr. 22, 1925. 2 Claims. (Cl. 214—103.)



1. In combination with a trackway, an elevator system comprising a wheel truck adapted to be moved along said trackway by its wheels supporting said truck on said trackway, a cage carried by said truck and having cylindrical elements, rollers on said truck in engagement with said cylindrical elements enabling said cage to be rotated about an axis disposed transversely of said truck and said trackway, a container protruding from each side of said cage so as to overhang said trackway, said cage together with said containers being adapted to be lifted as a unit from said truck resting loosely thereon, and adjustable means for positively rotating said cage on said truck upon the latter reaching a predetermined position on said trackway for depositing on either side thereof the contents of said containers, said means automatically establishing an operative connection between said cage and said trackway as the movement of said truck along said trackway is continued beyond said predetermined position.

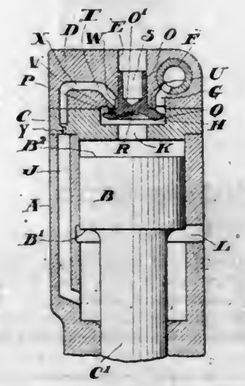
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1,696,310. DOOR STRUCTURE FOR AUTOMOBILE BODIES. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 20, 1924. Serial No. 738,784. 11 Claims. (Cl. 296—44.)



1. In an automobile door structure, vertically disposed side frame members having oppositely presenting vertically disposed shoulders or seatings on their opposed edges, in combination with a reinforcing and bracing plate or stamping extending transversely between said frame members and seated at its respective ends against the said shoulders.

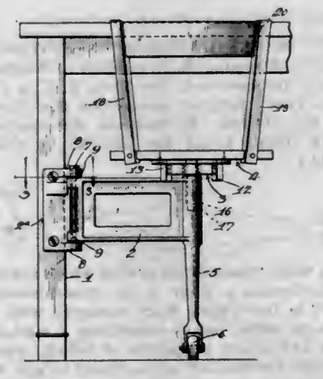
1,696,311. VALVE FOR PERCUSSIVE TOOLS. GORDON LEE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 17, 1927. Serial No. 161,592. 3 Claims. (Cl. 121—19.)



1. In a fluid actuated rock drill, the combination of a cylinder, a valve chest having a valve chamber, inlet passages leading from the valve chamber to the cylinder, a distributing valve in the chamber comprising a stem and a flange, an actuating face on the rearward side of the flange constantly exposed to live pressure fluid for throwing the valve forwardly to admit pressure fluid to the front end of the cylinder, and an actuating face of greater area than the first said actuating face at the front end of the flange intermittently exposed to air compressed by the piston for throwing the valve in position to admit pressure fluid to the rearward end of the cylinder.

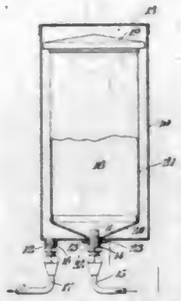
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1,696,312. SWINGING SEAT. OSCAR L. LETHANDER, Chicago, Ill. Filed Sept. 29, 1927. Serial No. 222,727. 4 Claims. (Cl. 155—81.)



1. The combination with a table top, of a horizontally swinging arm pivotally mounted adjacent said table top, a spider pivotally mounted on the swinging end of said arm for horizontal swinging movement with respect to said arm and a seat mounted on said spider, said spider having a plurality of arms, one of which is provided with a stop for engaging the swinging arm to limit the swinging movement of the seat with respect to the swinging arm.

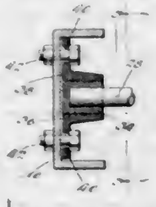
1,696,313. FILTER. ROBERT P. F. LIDDELL, New York, N. Y., assignor, by mesne assignments, to Central Union Trust Company of New York, trustee. Filed Mar. 22, 1926. Serial No. 96,444. 4 Claims. (Cl. 210—178.)



1. A self-cleaning filter comprising a casing having an inlet and an outlet, and a filter unit within said casing, said unit being composed of substantially rigid end members and a flexible filtering medium extending therebetween, one of said end members being connected to the inlet of said casing.

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1,696,314. BRAKE MECHANISM. KENNETH E. LYMAN, Chicago, Ill., assignor to Bendix Brake Company, Chicago, Ill., a Corporation of Illinois. Filed May 5, 1927. Serial No. 188,978. 8 Claims. (Cl. 188—204.)



1. Operating means comprising, in combination, a relatively long rockshaft, a support adjacent the end of the rockshaft, and rubber material bonded to the shaft and to the support and having the double function of serving as a bearing for the shaft and of yieldingly resisting angular movement of the shaft.

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1,696,315. WAVE TRANSMISSION SYSTEM. ROBERT C. MATHES, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Original application filed Nov. 1, 1924, Serial No. 747,164. Divided and this application filed Dec. 16, 1926. Serial No. 155,155. 4 Claims. (Cl. 178—44.)



1. In a wave transmission system which requires for its proper functioning a delay in the transmission of waves at a point in the system, large compared with the period of the waves, delay means comprising a mechanical line, the mass and elastic properties of which, together with the length of the line, are proportioned to give the desired delay, said line comprising a homogeneous medium having its mass and elastic properties continuously distributed along a substantial portion of its length.

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1,696,316. RAIL BOND. CHARLES G. MCCAULLEY, Jacksonville, Fla. Filed Dec. 12, 1923, Serial No. 680,097. Renewed May 16, 1928. 2 Claims. (Cl. 173—283.)

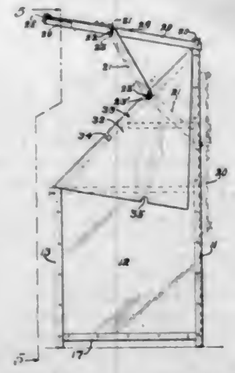
1. In combination with two rails and splice bars and bolts to connect their ends, a stiff strap bond of metal having an elongated section in engagement with the outer faces of the rails and clearing the tops of the splice bar and terminating at its ends in bends extending downwardly and



inwardly, means formed at the ends for engagement with the respective rails to support the elongated section above the splice bar, said bends serving to press the elongated section yieldingly against the face of the rails.

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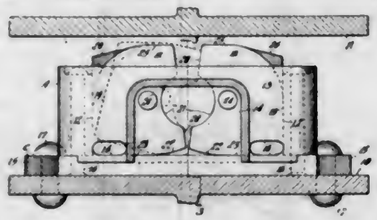
1,696,317. NEWS STAND WITH ADJUSTABLE TOP. WILLIAM O'BOYLE, Chicago, Ill. Filed Dec. 27, 1927. Serial No. 242,605. 10 Claims. (Cl. 312—100.)



1. A stand having rear, front, and side walls, the top of the stand being open, covering means therefor, and link means for swingably mounting said covering means so as to retain it in various positions over said top openings as a roof, or to close said opening, or to swing it out of the way behind the rear wall.

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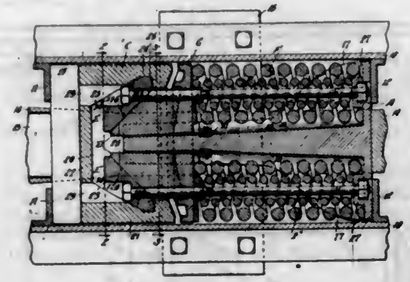
1,696,318. SIDE BEARING FOR RAILWAY CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc., a Corporation of Delaware. Filed Apr. 3, 1924. Serial No. 703,900. 7 Claims. (Cl. 308—224.)



5. In an anti-friction bearing for railway cars, the combination with a housing adapted to be secured on a bolster or the like and having an interior bearing surface; of a pair of self-returning rockers arranged at opposite ends of said housing and adapted to rock on said bearing surface, each of said rockers having a rounded bearing surface engageable on said bearing surface of the housing, and also having a portion of its outer bearing surface normally parallel to the bearing surface of the cooperating opposed bolster and having another portion of the outer bearing surface adapted to be parallel to the opposed bearing surface of the last-mentioned bolster when the rocker is at the end of its rocking movement.



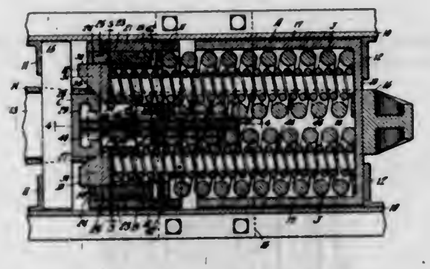
1,696,319. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Mar. 16, 1925, Serial No. 15,788. Renewed June 6, 1928. 4 Claims. (Cl. 213—36.)



1. In a friction shock absorbing mechanism, the combination with a follower acting element having a friction post thereon, said post having inwardly diverging friction surfaces; main spring resistance elements; opposed friction shoes cooperable with the friction surfaces of the post, said shoes having relatively blunt angle wedge faces; a pressure transmitting, relatively keen angled wedge element; and differential blocks between said wedge element and shoes and cooperable with the respective wedge faces thereof.

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1,696,320. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 28, 1927. Serial No. 171,406. 9 Claims. (Cl. 213—24.)

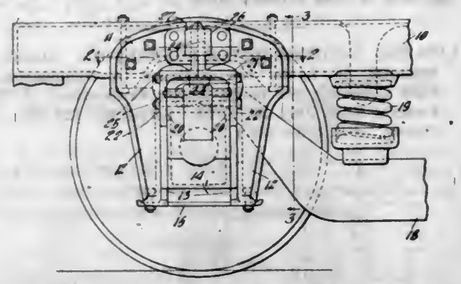


1. In a friction shock absorbing mechanism, the combination with a spring cage; of a friction shell, said shell and cage being relatively movable; detachable means for connecting the cage to the shell, for limited relative movement; friction means co-operating with the shell, including a wedge member; means for anchoring the wedge member to the spring cage and maintaining said connecting means locked to the cage and shell, said anchoring means limiting outward movement of the wedge with respect to the friction shell; and spring resistance means opposing relative movement of the friction means and shell with respect to the cage, during a compression stroke.

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1,696,321. JOURNAL-BOX-ALIGNING DEVICE. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,341. 3 Claims. (Cl. 105—224.)

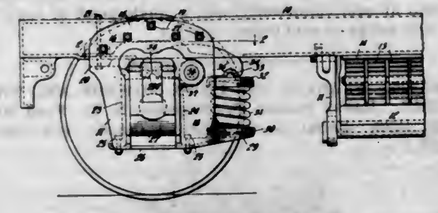
1. In a device of the character described, the combination with a truck having pedestal jaws, and a journal box mounted in said jaws for sliding movements; an equalizer bar bearing upon said journal box; elements rigidly connecting with said journal box and extending to a point



spaced from said pedestal jaws and said box; and means co-operating with the end portions of said elements to confine the same to vertical movement.

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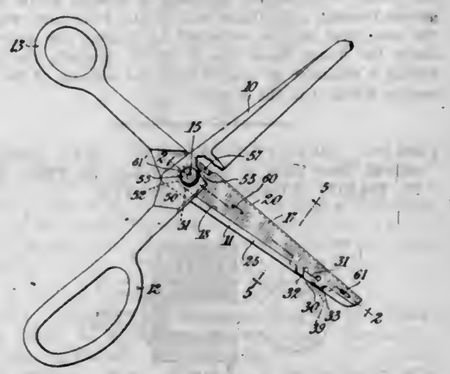
1,696,322. RAILWAY-CAR TRUCK. JOHN F. O'CONNOR, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed May 21, 1927. Serial No. 193,348. 4 Claims. (Cl. 105—224.)



1. In a truck of the character described, the combination with a frame having a pedestal member thereon; of a journal box vertically movable between the jaws of said pedestal; and a bar pivotally mounted on said pedestal and having one end bearing on and movably connected to said journal box; and yieldable means interposed between the opopsite end of said bar and a fixed abutment on said pedestal.

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1,696,323. COMPOSITE BLADE FOR SCISSORS. ISAAC PATRICK, Jamaica, N. Y. Filed Apr. 16, 1925. Serial No. 23,505. 5 Claims. (Cl. 30—13.)

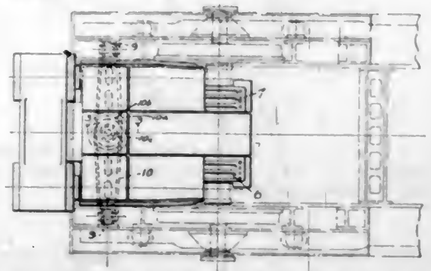


1. A composite blade comprising a cutter and a supporting part, and means for fastening said parts together, said cutter being a flat plate, and said fastening means comprising parts on said cutter lying in the planes of the faces of said plate, said fastening means comprising a dovetail joint in the plane of said cutter and supporting

part, a part of said dovetail joint having an incline with reference to a perpendicular to the face of said cutter, whereby said cutter is held against displacement in the direction of said perpendicular.

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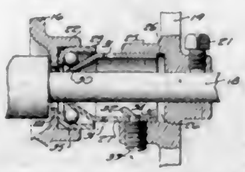
1,696,324. BOOSTER-MOTOR SUSPENSION. HARRY M. PFLAGER, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 22, 1924. Serial No. 727,505. 26 Claims. (Cl. 105—138.)



1. In a locomotive, a main frame, a trailer axle partially supporting said frame, a booster motor for the trailer axle, a transverse beam beneath said booster motor carried by said main frame, and a single point of support for said motor on said beam.

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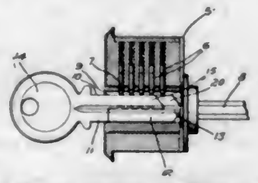
1,696,325. BEARING FOR LAWN MOWERS AND THE LIKE. HARRY PRIEST, Poughkeepsie, N. Y. Filed May 20, 1926. Serial No. 110,353. 1 Claim. (Cl. 308—189.)



In a lawn mower, the combination with a stationary frame, a knife carrying cylinder including end flanges and a shaft on which the end flanges are mounted, of a bearing for supporting the cylinder and shaft from the frame, said bearing comprising a ball race carried by the frame, and means for releasably clamping the cone race to an end flange, said means including a locking screw which passes through an oblique slot in the cone race whereby the cone race may be adjusted by turning the cone race about the flange when the screw is loosened, the screw having a shoulder to engage with the outside of the cone race to clamp it in the flange.

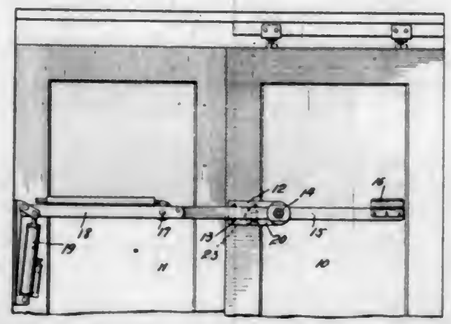
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1,696,326. MULTIPLE-PLUG KEY. EMIL ROETHLISBERGER, New York, N. Y. Filed Apr. 23, 1923. Serial No. 634,017. 5 Claims. (Cl. 70—47.)



1. A plug key for tumbler locks, said key being composed of two interlocking and cooperative parts, both of which when placed one upon another and edge to edge cooperatively are of a cross section corresponding with the key aperture of a predetermined lock.

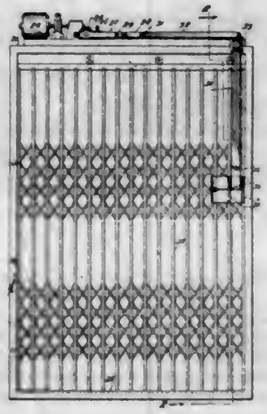
1,696,327. ELEVATOR-DOOR MECHANISM. ALBERT J. ROSENTRETER, Boonton, N. J., assignor to Edgar Zabriskie, Maplewood, N. J., and Frank E. Hutchins, New York, N. Y. Filed Feb. 12, 1926. Serial No. 87,768. 6 Claims. (Cl. 268—55.)



1. In a mechanism of the character described, the combination with a sliding door having means for moving the same to open or closed position, of means bodily movable with the door to prevent reversal of movement of the door in an intermediate position during its movement in either direction.

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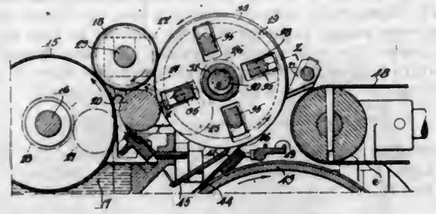
1,696,328. SAFETY MECHANISM FOR ELEVATOR-SHAFT DOORS. ALBERT J. ROSENTRETER, Boonton, N. J., assignor to Edgar Zabriskie, Maplewood, N. J., and Frank E. Hutchins, New York, N. Y. Filed June 17, 1926. Serial No. 116,538. 15 Claims. (Cl. 187—52.)



10. In combination with an elevator car and shaftway with doors at the floor landings, an operating mechanism for a shaft door which comprises an electric motor, a connection between the motor and the door, a hand switch for closing a circuit which initiates the operation of the motor, an automatically operated switch which holds the circuit closed after it has been closed by the hand switch, a limit switch which is automatically opened when the door has been fully opened, and a separate hand switch for opening the circuit and arresting the operation of the door when at an intermediate point of its movement.



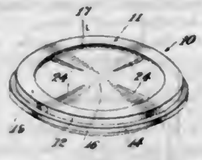
1,696,329. GLUE-APPLYING ROLL. WALTER A. SAATMAN, Roslyn, Pa. Filed Mar. 12, 1026. Serial No. 94,150. 20 Claims. (Cl. 91—51.)



2. In gluing machines, the combination of a glue-applying roll, a squeeze roll and picker fingers, the glue-applying roll presenting an unbroken longitudinal contour free from depressions against the squeeze roll and continuously presenting depressions for the picker fingers.

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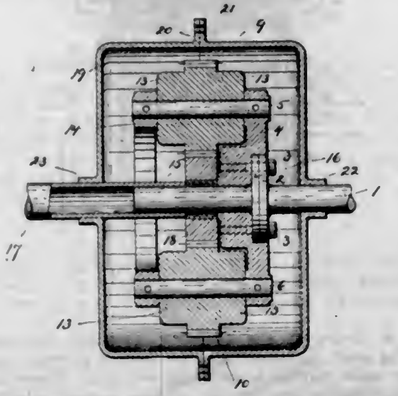
1,696,330. CAP AND PACKAGE. EDGAR SCOFIELD, New York, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed July 15, 1926. Serial No. 122,515. 10 Claims. (Cl. 215—38.)



1. As an article of manufacture, a closure cap comprising a cover portion and reinforcing means decreasing in size toward the center and extending through substantially the center of said cover portion to prevent flexing thereof.

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1,696,331. TRANSMISSION GEAR. REINHOLD SCHOELL, Kelsey City, Fla. Filed Jan. 11, 1928. Serial No. 245,909. 4 Claims. (Cl. 74—34.)



1. In combination with a driving member and a driven member, a central gear-wheel secured to said driven member, a supporting means secured to said driving member so as to rotate therewith, and substantially symmetrically balanced heavy gear-wheels comprising a central toothed portion and a weighted cylindrical extension on either side of said toothed portion rotatably carried by said supporting means near the circumference thereof and in mesh with said central gear wheel so as to produce a uniform rotating force of constant value.

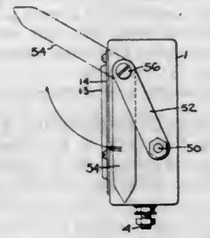
1,696,332. UNDERFRAME FOR WELL CARS. WILLIAM M. SHEEHAN, St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill., a Corporation of New Jersey. Filed June 25, 1926. Serial No. 118,550. 21 Claims. (Cl. 105—415.)



1. A car having an integrally formed frame including end sills, side sills, and center sills, and trucks adapted to carry said frame, said side sills being diminished in depth over said trucks to provide clearance.

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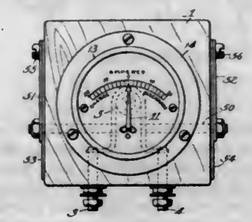
1,696,333. ELECTRICAL INSTRUMENT. HARRY I. SHIRE, Detroit, Mich. Filed Sept. 16, 1920, Serial No. 410,684. Renewed Feb. 4, 1927. 11 Claims. (Cl. 171—95.)



10. In an electrical testing device, a pair of contact making projections, an exposed conductor connected between said projections, and an indicating instrument having a movable element affected by the magnetic field created by a current passing through said conductor.

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1,696,334. METHOD OF TESTING STORAGE BATTERIES. HARRY I. SHIRE, Detroit, Mich. Original application filed Sept. 16, 1920, Serial No. 410,684. Divided and this application filed Aug. 14, 1924. Serial No. 731,930. 7 Claims. (Cl. 175—183.)



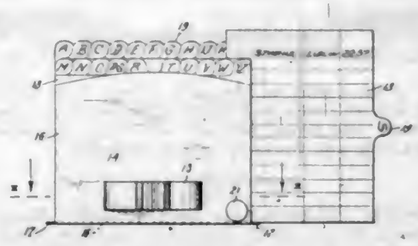
1. The method of testing the condition of charge of a storage battery which consists in passing current from one terminal to the other of said battery through a resistance less than the normal internal resistance of said battery and noting the effect of the current flowing between said terminals.

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1,696,335. TELEPHONE INDEX. MORRIS M. SHORR, New York, N. Y. Filed Jan. 20, 1928. Serial No. 248,252. 2 Claims. (Cl. 40—10.5.)

1. A telephone index comprising a casing including a bottom and front and rear sides rising therefrom, a pin extending through said casing adjacent one of its lower corners, a plurality of index cards adapted to rest on the bottom of said casing between said sides, each card being provided with a slot through which said pin is extended whereby said cards are adapted to be swung around said

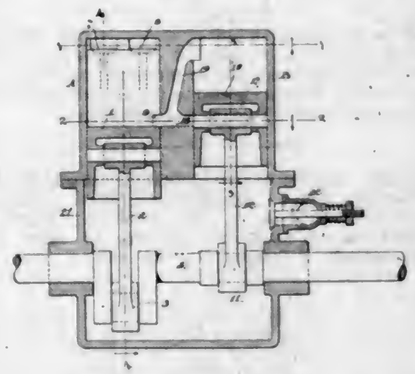
pin, an extension on said bottom adjacent said pin forming a ledge on which said cards are adapted to rest when swung out of said casing, and a clip on said casing for attaching the same to a telephone instrument, the slot in each card extending from that edge of the card which



rests on said bottom when the cards is disposed within the sides of said casing upwards at an acute angle to said edge, the slot in each card being provided with a contracted mouth portion to prevent accidental disengagement thereof from said pin.

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1,696,336. INTERNAL-COMBUSTION ENGINE. RICKARD STRINDBERG, New York, N. Y., assignor of one-third to John L. Lotsch, Brooklyn, N. Y. Filed Apr. 19, 1920. Serial No. 374,991. 4 Claims. (Cl. 60—15.)



2. In an internal combustion engine, an explosion cylinder and an expansion cylinder, each opening at its lower extremity into a common casing, a port connecting the mid sections of said cylinders, a branch extending from said port to the upper end of the expansion cylinder, an exhaust port in said expansion cylinder substantially alined with said cylinder connecting port, a fluid shunt opening into said expansion cylinder at a point substantially above and at a point substantially below said exhaust port, pistons in said cylinders each adapted to form a closure for said cylinder connecting port, said pistons being of such a length as to uncover said cylinder connecting port at both extremities of their stroke, and intake and exhaust ports in the upper end of the explosion cylinder.

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1,696,337. METHOD OF PRODUCING ABIETIC ACID ESTERS OF POLYGLYCEROL. ERNEST M. SYMMES, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 12, 1927. Serial No. 232,950. 14 Claims. (Cl. 260—98.)

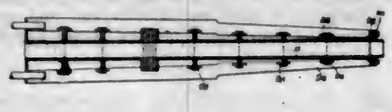
1. As a new composition of matter, the abietic acid ester of a polyglycerol.

1,696,338. PROCESS OF DECOLORIZING VEGETABLE OILS. HAROLD E. BIERCE, Pasadena, Calif. Filed June 29, 1925. Serial No. 40,458. 2 Claims. (Cl. 87—12.)

1. In the process of clarifying and decolorizing refined and substantially neutral vegetable oils, the steps which comprise adding sufficient alkaline solution to such an oil to render the same slightly alkaline, and then, before removal of the alkali and products of reaction thereof, subjecting the oil to the action of an adsorbent earth.

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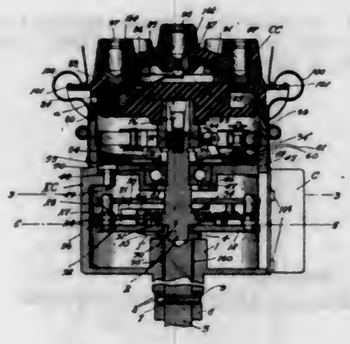
1,696,339. CANNON. EDWIN J. BLOOD, Chicago, Ill. Filed Sept. 9, 1926. Serial No. 134,558. 5 Claims. (Cl. 89—16.)



5. A cannon of the class described comprising a plurality of spools each spool having tubular body portions fitted one within another and having at opposite ends an outwardly extended flange, and ductile material such as white lead on the outer surface of the inner body portion of each spool.

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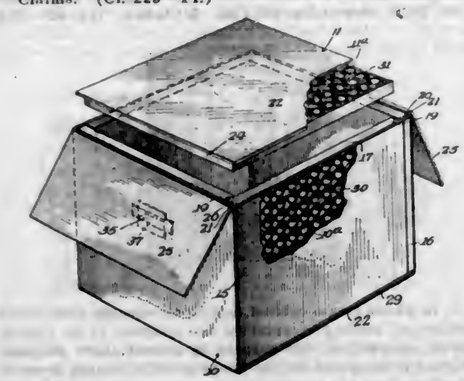
1,696,340. DISTRIBUTOR. ERNEST A. BOHLMAN, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1924. Serial No. 725,337. 16 Claims. (Cl. 200—31.)



3. A device of the character described including a driving shaft, a control member secured thereto, an auxiliary shaft having a split end rotatable therewith but angularly adjustable thereto, a cam member adapted to fit over said split end, a screw adapted to enter said split end to expand the same to secure said cam member against movement relative to said shaft, centrifugally controlled means connecting said auxiliary shaft to said driving shaft, means formed integrally with said control member for limiting the movement of said centrifugally controlled means, and means whereby said auxiliary shaft may be angularly adjusted different amounts in response to movements of said centrifugally controlled means from its normal to its fully operated position.



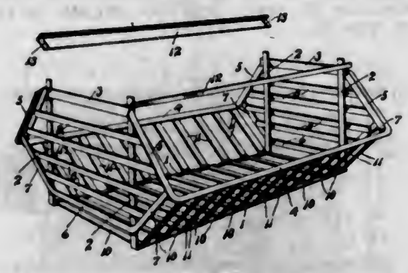
1,696,341. SHIPPING BOX. JULIUS M. BLANCHARD, Oak Park, Ill., assignor of one-half to J. W. Mabbs, Chicago, Ill. Filed Mar. 11, 1927. Serial No. 174,435. 11 Claims. (Cl. 229—14.)



1. A shipping box comprising a top, bottom, and sides, each of said sides consisting of an inner and outer wall of sheet material, and separately formed reinforcing members between the walls, said members being closely arranged and substantially filling the space between the walls.

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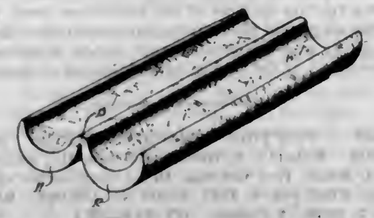
1,696,342. SECTIONAL DISPLAY DEVICE. ELVAH O. BULMAN, Grand Rapids, Mich. Filed Dec. 28, 1925. Serial No. 78,050. 5 Claims. (Cl. 211—126.)



1. A display rack comprising a series of super-imposed sections, each of said sections having a bottom, ends, and upwardly and outwardly inclined sides, each of the ends being provided with two spaced apart upwardly extending projections at its upper edges, and bars of angular shape located between said projections and having openings through which said projections pass, on which the next higher section may be supported and held.

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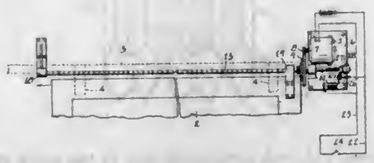
1,696,343. METHOD OF MAKING EDIBLE ROLLS. FREDERICK E. BURDICK, New London, Conn. Filed July 3, 1925. Serial No. 41,272. 3 Claims. (Cl. 107—54.)



2. The method of making tubular rolls for receiving frankfurters which comprises forming dough into a series of semi-tubular sections joined together along their side edges, separating the sections in pairs so as to leave two of them joined together along their side edges, baking the sections while held in said form, and folding one of the joined sections on to the other to form a tubular roll.

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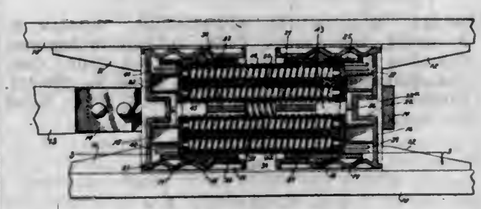
1,696,344. DOOR-OPERATING MECHANISM. FRANK J. CLARK, Battle Creek, Mich. Filed Oct. 27, 1925. Serial No. 65,158. 1 Claim. (Cl. 268—8.)



In a door operating mechanism, the combination with a motor, of a driving shaft having a reversely threaded part, driving connections for said driving shaft to said motor including a gear on said driving shaft provided with a driving clutch member, a reversely threaded driven shaft disposed in alinement with said driving shaft and provided with a yieldingly supported driven clutch member coacting with said driving clutch member, a traversing member on said driven shaft adapted to be connected to the door to be operated and provided with a pawl coacting with said driven shaft, a starting switch, a running switch comprising coacting relatively fixed and movable members, and actuating means for said movable member including a traversing member on said reversely threaded portion of said driving shaft, the stroke of said traversing member being such as to open the running switch at each end of its travel.

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1,696,345. DRAFT GEAR. WALTER H. COTTON, Chicago, Ill., assignor to Union Draft Gear Company, Chicago, Ill., a Corporation of Delaware. Filed Sept. 7, 1923. Serial No. 661,375. 16 Claims. (Cl. 213—36.)



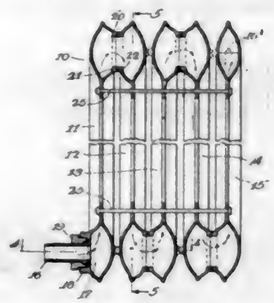
1. In a draft gear, a pair of oppositely arranged chambered followers having corrugated side walls, a group of friction plates within said followers, friction shoes having inclined faces engaging said corrugated walls for compressing said plates, and resilient means for resisting inward movement of said followers.

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1,696,346. RADIATOR CONSTRUCTION. JOHN FRICHTER, Chicago, Ill. Filed Mar. 13, 1925. Serial No. 15,246. 4 Claims. (Cl. 257—151.)

1. A radiator construction, the combination of a radiator having a plurality of sections connected together alternately at the top and bottom so that a continuous circulation

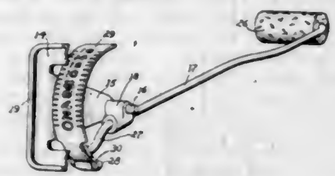
substantially the entire length of each section is obtained first through one section and then through the adjacent section, and means forming a partitional wall throughout the



entire length of each section and also at the union of adjacent sections for providing a similar return circulation through said radiator.

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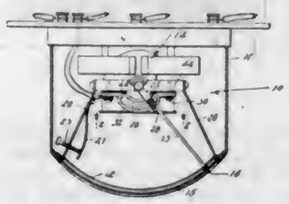
1,696,347. LIUQID-LEVEL GAUGE. HENRY FORD, Dearborn, Mich. Filed Aug. 18, 1926. Serial No. 129,971. 3 Claims. (Cl. 73—82.)



2. In a gauge structure a fuel tank having one wall with an opening therein, a gauge glass extended across said opening, a bracket member extending inwardly of the tank from said opening, an operating rod pivoted intermediate of its ends on said bracket, a float device at the one end of said rod, an arcuate dial member pivoted to the other end of said rod, and means for yieldingly urging the surface of the dial member into contact with the inner surface of the gauge glass.

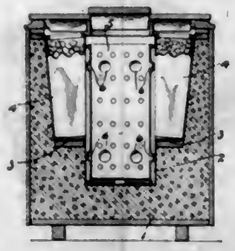
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1,696,348. ELECTRICAL APPARATUS. WILLIAM R. FRAMPTON, Los Angeles, Calif., assignor to Southern California Edison Company, Los Angeles, Calif. Original application filed Aug. 1, 1922, Serial No. 579,015. Divided and this application filed June 7, 1924. Serial No. 718,501. 1 Claim. (Cl. 200—56.)



In combination, an instrument having a horizontally movable indicating part, an open topped container arranged below the idicating part, the bottom of the container having a depression, a globule of mercury carried in the depression to project above the bottom of the container, fluid in the container covering the mercury, and a contact carried by the indicating part to extend into the container to clear the bottom of the container and cooperate with the mercury.

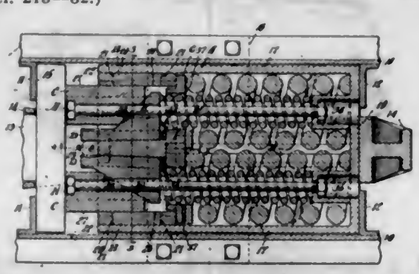
1,696,349. BRICK ICE-CREAM PACKING AND COOLING CABINET. EDWARD M. FRITZ, Grand Rapids, Mich., assignor to Grand Rapids Cabinet Company, Grand Rapids, Mich., a Corporation of Michigan. Filed July 25, 1927. Serial No. 208,222. 5 Claims. (Cl. 62—75.)



1. In an ice cream cabinet having an opening into which refrigerant holding receptacles are adapted to be placed, one at each side of the opening in spaced apart relation, a can of rectangular outline adapted to be located between the refrigerant holding receptacles and formed at its sides with outwardly pressed projections to engage against the adjacent sides of the refrigerant holding receptacles to thereby properly locate said receptacles and can with respect to each other and space the same from each other, said projections being spaced apart to permit vertical air circulation past and between them.

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1,696,350. FRICTION SHOCK-ABSORBING MECHANISM. HENRY FUCHS, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed July 23, 1927. Serial No. 207,865. 5 Claims. (Cl. 213—32.)



1. In a friction shock absorbing mechanism, the combination with a casing having a pair of longitudinally disposed interior friction surfaces; a central friction post within the casing; friction elements having friction surfaces cooperating with the friction surfaces of the casing, said elements being slidable lengthwise of the casing; additional friction elements having wedging engagement with the first named friction elements and frictional engagement with the post, said additional friction elements being movable relatively to the post lengthwise of the mechanism, the cooperating wedge faces of said first named and additional elements being such as to accommodate the relative displacement of the first named and additional elements vertically, said cooperating friction surfaces of the mechanism being formed to confine all of said elements to move longitudinally of the casing only; and spring resistance means opposing relative movement of the casing and additional elements.

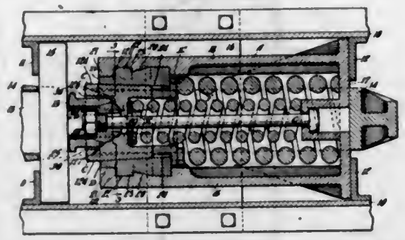
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1,696,351. FRICTION SHOCK-ABSORBING MECHANISM. WILLIAM A. GEIGER, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a Corporation of Delaware. Filed Feb. 5, 1927, Serial No. 166,058. Renewed Nov. 7, 1928. 8 Claims. (Cl. 213—32.)

1. In a friction shock absorbing mechanism, the combination with a spring cage having a plurality of side walls, two



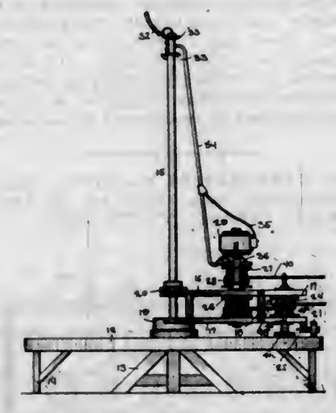
of said side walls being opposed; of a spring resistance within the cage; a pair of detachable liners mounted on said opposed side walls; means for preventing relative longitudinal movement of said liners and cage, said liners and side walls of the cage having interengaging faces thereon for holding the liners centered on said walls; a pair of friction shoes co-operating with the liners; a wedge block



engaging said shoes, said wedge block and shoes having interengaging shoulders thereon for confining relative movement of the shoes and wedge block to a direction longitudinal of the mechanism, and said shoes and liners being provided with interengaging means for holding all of said parts centered on said side walls and uniformly spaced from the remaining walls of the cage.

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1,696,352. AUTOMATIC AGRICULTURAL MACHINE. ELMA EVERT GOUCHER, McMinnville, Oreg. Filed Dec. 2, 1926. Serial No. 152,293. 13 Claims. (Cl. 104—169.)



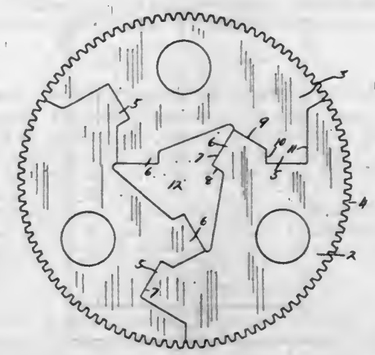
1. An apparatus of the character described comprising a frame mounted for rotary movement upon a stationary table, a pair of drums mounted for rotary movement on the frame, a cable connected to and wound over the drums adapted to extend radially outward for engagement with a machine, and mechanism operatively associated with one of the drums for automatically releasing the drums for predetermined rotary movement at intermittent periods.

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1,696,353. MANUFACTURE OF WINDOW REGULATORS. HOWARD B. HASKINS, Toledo, Ohio, assignor to The Dura Company, Toledo, Ohio, a Corporation of Delaware. Filed July 12, 1926, Serial No. 121,954. Renewed May 11, 1927. 10 Claims. (Cl. 29—148.)

1. In the manufacture of gear segments each having a series of teeth at one edge and anchoring portions at the opposite edge, the forming of a blank with teeth at its perphery and the severing of the blank into like gear segments with overlapping anchoring portions.

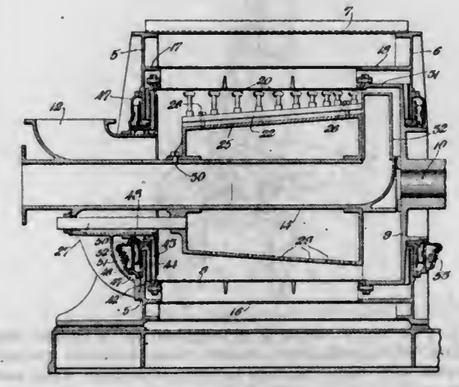
7. In a window regulator, the combination of a lifter arm and a gear segment having an arcuate series of teeth at one edge of a length to be included with an angle of 120 degrees having as its apex the central point about



which the teeth extend concentrically, said gear segment also having a plurality of anchoring portions at the opposite edge and near its ends set into and welded to said arm.

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1,696,354. PULP-SCREENING MACHINE. ANTON JOSEPH HAUG, Nashua, N. H. Filed May 17, 1927. Serial No. 192,104. 14 Claims. (Cl. 92—35.)



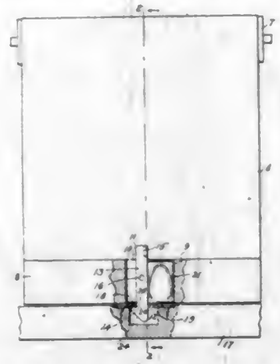
1. In a pulp screening machine, the combination of a rotary screen, means for conducting pulp into said screen, a stationary support in the screen and a series of members mounted on said support and adapted to advance the tailings step by step through the machine, said members having stock advancing portions located close to the surface of the screen and having their parts more remote from said surface shaped to avoid such advancing action.

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1,696,355. SCREEN LATCH. FRANK D. HOBBS and CLARENCE HOBBS, Los Angeles, Calif. Filed Apr. 9, 1927. Serial No. 182,452. 1 Claim. (Cl. 292—128.)

The combination, with a vertically movable body, of a latch construction comprising a casing within said body, a latch member pivoted intermediate its ends in said casing and having its ends projecting through apertures therein; a hook on one of the ends of said latch member; a plate beneath said vertically movable body provided with a slot arranged in the path of said hook, and a flat detached hairpin shaped spring disposed in said casing having one

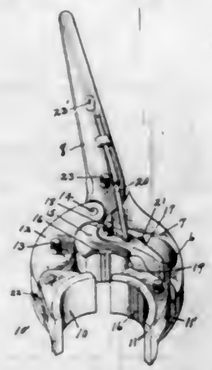
of its legs engaging with said latch and its other leg with a wall of said casing to keep the hook yieldingly pressed forwardly in engagement with the edge of the slot in said



plate, said casing being sufficiently narrow to maintain said spring in an inoperative position with relation to said latch member.

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1,696,356. ROTARY PIPE TONGS. HALL H. HOLDAWAY, Long Beach, Calif. Filed Apr. 7, 1926. Serial No. 100,238. 3 Claims. (Cl. 81—91.)

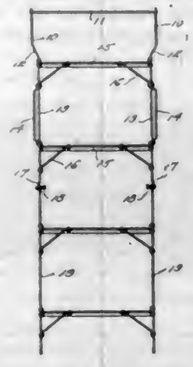


1. Pipe tongs including in combination, a handle, side plates of substantially crescent form attached to said handle with their openings in vertical register when said tongs are used on vertical pipe, said openings being at the outermost end of said handle, whereby when said handle is moved longitudinally to a pipe said openings pass over said pipe, pivoted jaw members in the opposite sides of said openings with semi-circular gripping faces opposite each other and opening outwardly and adapted to first engage a pipe as said tongs are moved endwise against a pipe, said pivoted jaws being adapted to move simultaneously together into said crescent shaped side plates and around opposite sides of said pipe as said tongs are thrust endwise against said pipe, latch means rearwardly of said jaws for holding them closed as they are moved back into said crescent shaped side plates, and operating connections from said handle with one of said jaws to press the same against said pipe as said handle is moved laterally in one direction.

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1,696,357. FIRE ESCAPE. WILLIS W. JOHNSON, Dewittville, N. Y. Filed Nov. 2, 1927. Serial No. 230,648. 1 Claim. (Cl. 228—44.)

A fire escape comprising a plurality of pivotally connected sections, rungs carried by the sections, pivot pins for the connections being provided with spring members adapted to normally shift the same in one direction, the connected ends of the sections being provided with key-way



slots communicating with the apertured portions thereof, and keys carried by the pivot pins being adapted for reception within the key-way slots to rigidly hold the sections against displacement when called into active use.

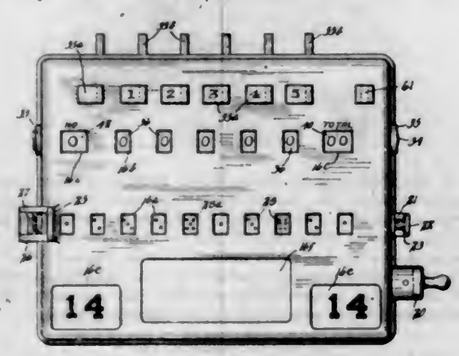
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1,696,358. PROCESS FOR THE EXTRACTION AND DRYING OF JELLIES. WOLF JOHANNES MÜLLER, HANS CARSTENS, and JULIUS DRUCKER, Leverkusen, near Cologne-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed Aug. 17, 1926, Serial No. 129,862, and in Germany Nov. 2, 1925. 4 Claims. (Cl. 23—182.)

1. A process for extracting and drying inorganic jellies which comprises subjecting the jellies to the extraction and drying processes in the form of plates or sheets.

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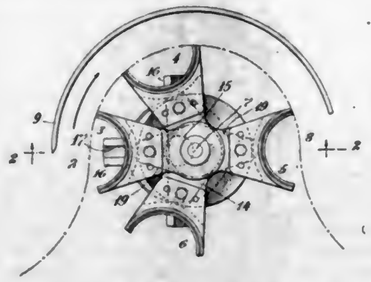
1,696,359. GAME-PLAYING MACHINE. CECIL O. NELSON, Minneapolis, Minn. Filed Feb. 21, 1927. Serial No. 169,845. 5 Claims. (Cl. 273—143.)




1. A machine of the class described having in combination a suitably mounted shaft, means for rotating said shaft, a plurality of drums journaled on said shaft, said drums each having various indicia on their periphery, engageable members carried by each of said drums, engaging members carried by said shaft, and means for longitudinally shifting said shaft in respect to said drums so that when the shaft is rotated by said means when said shaft is in one shifted position, respective engaging members will engage respective engageable members and spin said drums to expose various combinations of said indicia on said drums to view when said drums come to rest.



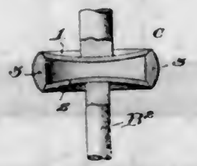
1,696,360. SPEED ACCELERATOR FOR TRAVELING CONTAINERS OR BODIES. JOSEPH PEYSER, Mount Vernon, N. Y. Filed Dec. 31, 1926. Serial No. 158,395. 3 Claims. (Cl. 198—22.)



1. A body accelerator comprising: a support, a plurality of shafts one within the other and rotatable around a common center, a body propelling element carried by each shaft above the support, a plurality of guides rotating about a common center eccentric with respect to that of the shafts, and a shoe carried by each shaft, extending into a guide and slidable therein.

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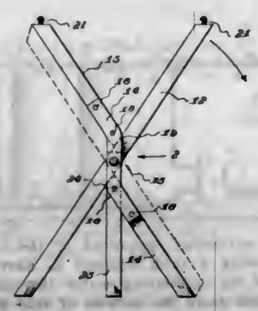
1,696,361. COMPENSATING MEANS FOR VALVE-OPERATING CONNECTIONS. FREDERICK REICH, Elizabeth, N. J. Filed Apr. 2, 1926. Serial No. 99,302. 6 Claims. (Cl. 123—90.)



1. In an internal combustion engine, the combination with a valve and the operating connections therefor, including a member having a predetermined minimum clearance from the valve, of a unit included in said operating connections and comprising two dished metallic members of different coefficients of expansion to preserve said predetermined minimum clearance under different temperature of the engine.

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1,696,362. RECLINING MAT. BENJAMIN F. BROOKE SEWELL, Chula, Va. Filed May 12, 1925. Serial No. 29,726. 3 Claims. (Cl. 155—153.)



1. A reclining mat comprising crossed and foldable pivot legs, one of said legs being straight and the other composed of spaced sections laterally offset the width of the straight leg and rigidly connected in such relation that the proximate ends of the sections bear against the remote sides of the straight leg, a fabric engaging upon the opposite free ends of said legs and holding the crossed legs in said relation, and an easel leg attached adjustably at the pivot.

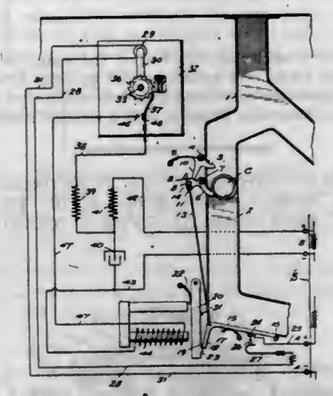
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1,696,363. PURIFICATION OF ACETIC ANHYDRIDE. WILLIAM PEARSON SKERTCHLY, Spondon, near Derby, England, assignor to Celanese Corporation of America, a Corporation of Delaware. Filed Mar. 25, 1926, Serial No. 97,448, and in Great Britain Feb. 13, 1926. 8 Claims. (Cl. 260—123.)

1. Process for the purification of acetic anhydride containing sulphur or sulphur compounds, comprising treating the same with chlorine and with at least one metallic acetate.

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1,696,364. COIN-CONTROLLED TIME SWITCH. LEE D. SLUSSER, Ottawa, Ohio, assignor of one-half to G. F. Donart, Ottawa, Ohio. Filed Sept. 16, 1927. Serial No. 220,010. 3 Claims. (Cl. 194—9.)



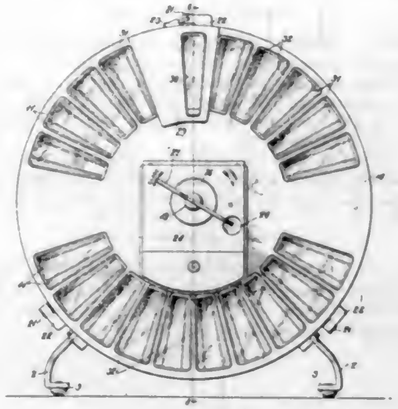
1. A coin controlled attachment for radio receiving sets and the like, including a B power circuit having a magnet and a circuit closer, a wheel for intermittently actuating the circuit closer, and a driving mechanism, of a coin chute, a normally open A power circuit, means actuated by the impact of a coin for closing the A power circuit, a latch for engaging said means to hold the A power circuit closed, means controlled by the closing of said A power circuit for coupling the driving mechanism to the wheel, thereby to close the B power circuit after a predetermined time interval, a condenser, means for charging the condenser, and means actuated by the energizing of the magnet by discharge of the condenser when the B power circuit is closed, for actuating the latch to release the coin operated means and break the A power circuit.

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1,696,365. COIN-CONTROLLED VENDING MACHINE. GOODWIN B. SMITH, New York, N. Y. Filed Oct. 6, 1925. Serial No. 60,822. 13 Claims. (Cl. 312—94.)

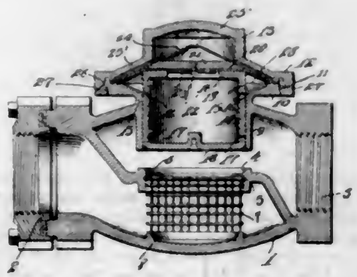
1. A vending machine comprising in combination: a frame, a drum having radially disposed compartments rotatably supported thereby, a casing, having a door aperture and a sliding door normally closing the same, adapted to be positioned on said frame to house said drum, means carried by said casing for progressively rotating said drum and actuating said door to successively align the radial

compartments of said drum with said door aperture, cooperating means carried by said casing and said drum to prevent the continued movement of the latter after a complete revolution, said cooperating means further preventing the door from being closed after the complete revolution of said drum, and means carried by said drum automatically operative after said complete revolution to visually indicate that said drum is locked against rotation.



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1,696,366. AUTOMATIC VACUUM-CONTROLLED VALVE. SCOTT V. SMITH, Bridgeport, Ill. Filed June 28, 1927. Serial No. 202,111. 5 Claims. (Cl. 251—127.)

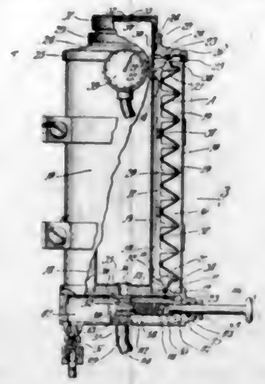


1. A valve of the class described comprising a casing, a guide sleeve carried by the casing, a valve seat in the casing, a hollow valve slidable in the sleeve, said valve having upper and lower ducts in its wall communicating with the interior thereof, a cap carried by the casing and providing a chamber, the upper ducts serving to discharge moisture from the chamber into the valve while the lower duct discharges the moisture therefrom into the casing.

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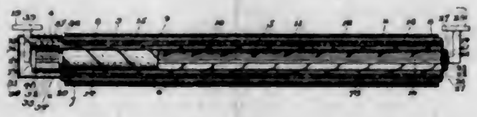
1,696,367. FILTER. ELTON S. STEPHENS, Chicago, Ill. Filed May 20, 1927. Serial No. 192,924. 12 Claims. (Cl. 210—183.)

1. In a filter, the combination of a casing provided with a centrally disposed well, a filter cage of generally cylindrical formation held in spaced relation to the center well, the cage being provided with outstanding ring shaped ribs and the wall of the cage being provided with longitudinally extending slots to provide communication between the spaces interior and exterior of the cage, a convoluted filter tube recurrently distended by contact with the edge of the ring shaped ribs, means for holding the tube contracted within the spaces intermediate between the space of the ring shaped ribs, the filter being provided with inlet and outlet passages, one of which opens into the space exterior of the filter tube and one interior thereof, substantially as described.



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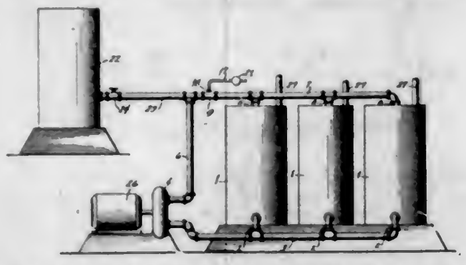
1,696,368. ELECTRICAL SHIFTING MECHANISM FOR CURTAINS. LOUIS V. STROUSE, Linwood, N. J. Filed Nov. 21, 1927. Serial No. 234,824. 17 Claims. (Cl. 156—28.)



1. A shade shifting mechanism comprising a roller for the shade, a revoluble means bodily carrying the roller and connected therewith, an electrically operated travelling iron core positioned within and interengaging with said means for revolving it in a clockwise and in an anti-clockwise direction, and controlling means for said core.

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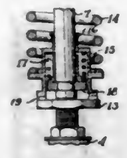
1,696,369. WATER-SOFTENING APPARATUS. JAMES E. TREWHITT and PURLEY E. HILLERY, Oakland, Calif., assignors to Oakland California Towel Company, Oakland, Calif., a Corporation of California. Filed Nov. 8, 1926. Serial No. 146,875. 5 Claims. (Cl. 210—24.)



1. A water softening apparatus of the character described comprising a tank adapted to have a chemical therein, means for circulating water through said tank, means adjustable from the outside of said apparatus for building up localized pressure in said means and means allowing water to be withdrawn from the region of localized pressure.



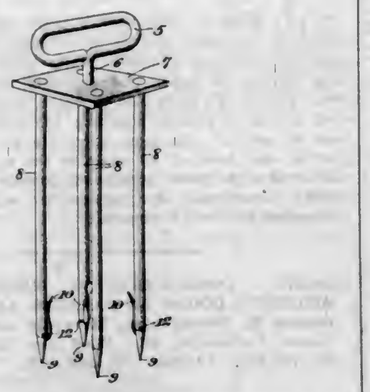
1,696,370. VALVE-OPERATING MECHANISM AND THE LIKE. JOHN C. TURVENE, Dayton, Ohio. Filed Jan. 3, 1927. Serial No. 158,481. 10 Claims. (Cl. 123—90.)



1. Valve operating mechanism including in combination with a valve having an axially operable member for opening and closing the valve, an actuator for said member aligned axially therewith and acting positively thereon for opening the valve, a primary compressible element opposed direct to the actuator, and a secondary compressible element opposed to said member and to the primary element, whereby only a portion of the force of the primary element is exerted direct on the actuator.

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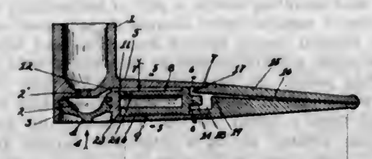
1,696,371. CLAM DIGGER. CLIFFORD E. WALLACE, Dallas, Oreg. Filed Feb. 6, 1928. Serial No. 252,218. 4 Claims. (Cl. 294—126.)



1. In a clam digger, the combination of a handle, a plurality of spaced tines connected to the handle and arranged in parallelism about a common center, inwardly extending barbs pivoted to the tines adjacent the ends thereof opposite the handle, the pivots of the barbs permitting the latter to swing upwardly into parallelism with the respective tines, and stops carried by the tines for cooperation with the barbs to limit their downward swinging movements to positions at substantially right angles to the central axis of the tines.

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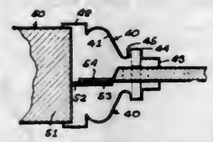
1,696,372. TOBACCO PIPE. STEPHEN E. WRIGHT, Los Angeles, Calif. Filed Dec. 23, 1925. Serial No. 77,219. 6 Claims. (Cl. 131—12.)



1. A pipe comprising in combination, a structure having a bowl and an integrally formed socket in alignment, separated by the base of the bowl, there being smoke vents from the bowl into the socket, a base plug screwed into the socket, a stem formed integral with the structure having the bowl and the socket, the stem having a chamber, a removable plug inserted in said chamber, with its end abutting against the wall structure of the socket, there being a smoke passage from the socket to the chamber of the stem, the plug having grooves forming a smoke passage, and a mouth piece with a smoke duct connected to the end of the stem.

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1,696,373. METAL DOOR AND THE LIKE. OSCAR E. ZENKER, Brooklyn, N. Y., assignor to Reliance Fireproof Door Co., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1925. Serial No. 60,429. 3 Claims. (Cl. 189—46.)



1. A metal door comprising a metal panel member, surrounding metal stile members, means comprising welded cooperating flange members on said metal panel and surrounding metal stile members for attaching said metal panel member to said surrounding metal stile members, a plurality of metal lugs positioned within perforations in said metal panel member, and a plurality of opposed, cooperating metal trim members, one on each side of said metal panel member, attached to said metal lugs.

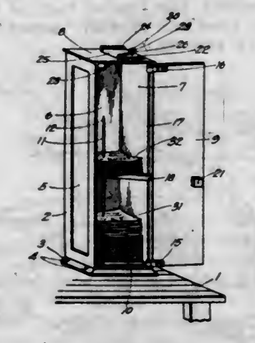
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1,696,374. MANUFACTURE OF DISPERSE SYSTEMS. CARL ALEXANDER AGTHE, Zurich, Switzerland, assignor to the Firm J. R. Geigy S. A., Basel, Switzerland. Filed Nov. 22, 1927, Serial No. 235,124, and in Germany Apr. 19, 1926. 1 Claim. (Cl. 252—6.)

A manufacture of disperse systems, consisting in mixing the material to be emulsified by dispersion both with sulphite cellulose lye and colloidal silica.

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1,696,375. PRESCRIPTION-FILING CABINET AND THE LIKE. CLARENCE M. ANDERSON, Oklahoma City, Okla. Filed Aug. 2, 1927. Serial No. 210,158. 2 Claims. (Cl. 129—7.)

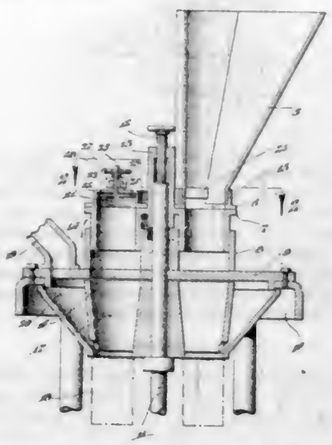


1. A cabinet of the character described, comprising an upright metallic case having walls, top, bottom; and a door, said door being adapted to be locked; said bottom being adapted to be fastened to a base, and having on its inside a plurality of upstanding tongues; a filing rod having its lower end bent so as to form a base and to be removably held in said tongues, its upper free end being pointed and adapted to be used through perforations in

prescriptions, and the like; a rod anchored at top and bottom adjacent one front edge of said cabinet and being adapted to hinge said door thereon, a slidable arm being adapted for movement and for positioning on said anchored rod for separating, holding and raising one portion of said prescriptions from the other portion; in combination with a suitable cutting perforator adapted to perforate papers for filing in said cabinet so as to make their filing therein uniform; said filing rod and the prescription and the like placed therein being adapted to be removed from said cabinet and retired to a suitable container.

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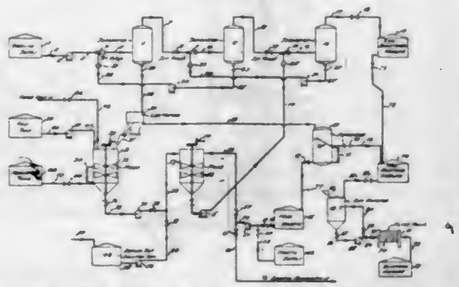
1,696,376. CAN-FILLING MACHINE. CHARLES H. AYANS, Salem, N. J. Filed Mar. 24, 1927. Serial No. 177,870. 6 Claims. (Cl. 226—102.)



1. In a can filling machine having a bed plate, measuring units movable on the bed plate, and a hopper above the measuring units; a hopper plate, having a relief channel formed therein, mounted between the measuring units and the hopper, and means for varying the depth of the channel.

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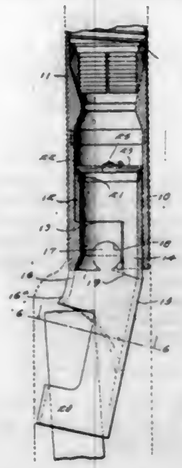
1,696,377. PROCESS OF PURIFYING HYDROCARBONS. JOHN C. BLACK, Los Angeles, and WILSON H. LOW, Long Beach, Calif., assignors to Pan American Petroleum Company, Los Angeles, Calif., a Corporation of California. Filed Mar. 17, 1927. Serial No. 176,226. 11 Claims. (Cl. 196—32.)



1. The process of treating hydrocarbons, which comprises treating the same with cadmium hydroxide suspended in an aqueous solution in quantities sufficient to combine with sulphur bearing constituents to be separated, combining the same therein, and separating the treated hydrocarbons from the sulphur bearing constituents combined with the said cadmium hydroxide.

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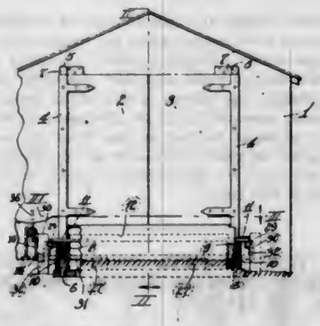
1,696,378. HYDRAULIC CASING HOOK. WALTER BRAUER, Seminole, Okla. Filed May 14, 1927. Serial No. 191,403. 9 Claims. (Cl. 294—86.)



1. In a guide for overshots, a shell adapted to be connected to the lower end of an overshot and having an inwardly extending shoulder at its lower end, a casing hook having its upper end pivotally connected to the lower end of the shell and a sleeve slidable within the shell having a portion engaging the upper end of said hook to oscillate the same upon the pivot and thereby position said hook at an angle to the axis of the shell, said shell and sleeve permitting passage of a fish upwardly therethrough for engagement with an overshot from which the shell is supported.

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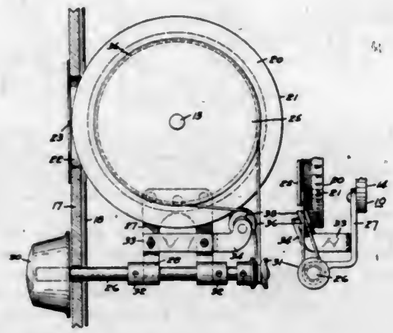
1,696,379. DOOR-OPERATING MECHANISM FOR SWINGING DOORS OF GARAGES AND THE LIKE. GEORGE H. BRIDGEWATER, Maryville, and CHARLES M. GOBEN, Collinsville, Ill. Filed Nov. 21, 1924. Serial No. 751,381. 1 Claim. (Cl. 268—35.)



In a door operating device, a pair of horizontally swingable doors, a metallic strap secured to each door extending the vertical length thereof and above and below respective doors, a pintle formed at each end of said straps, supporting means for each pintle, the portions of said straps which extend below said doors each being twisted so as to form a spiral portion, a horizontally disposed depressible member having a bifurcated portion at each end for engagement with respective spiral portions of said straps, resilient means underengaging said depressible member, and a pair of oppositely arranged inclined platforms each having one end resting on said depressible member.



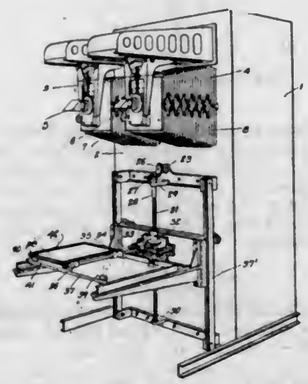
1,696,380. INSTRUMENT CONTROL. WILLIAM M. BROWER, Palo Alto, Calif., assignor to Federal Telegraph Company, San Francisco, Calif., a Corporation of California. Filed Mar. 29, 1926. Serial No. 98,308. 9 Claims. (Cl. 116—129.)



1. In a visual indicator of the class described the combination with a panel formed with an opening therein, a rotatable shaft, an indicator drum secured to said shaft and having graduations thereon visible through the opening in said panel, a rotatable control shaft in alignment with said indicator drum, and flexible means for operatively connecting said shafts, said means extending in planes substantially at right angles to each other.

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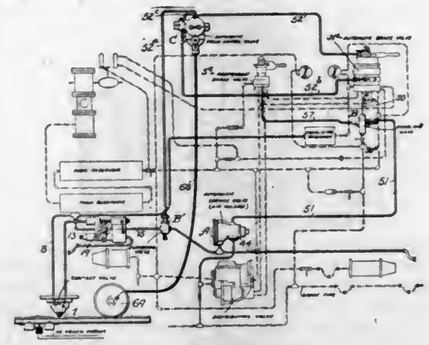
1,696,381. PHOTOGRAPHIC COPYING MACHINE. ARTHUR W. CAPS, Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed June 26, 1925. Serial No. 39,752. 13 Claims. (Cl. 88—24.)



1. In a photographic copying machine, the combination with a camera body embodying a casing and a lens, and a reversible copyholder arranged outside of the casing in the focus of the lens, of a reversible sensitized sheet holder within the casing adapted to be moved into and out of the focal plane of the lens and gearing connecting the sheet holder and copyholder to effect joint movement thereof.



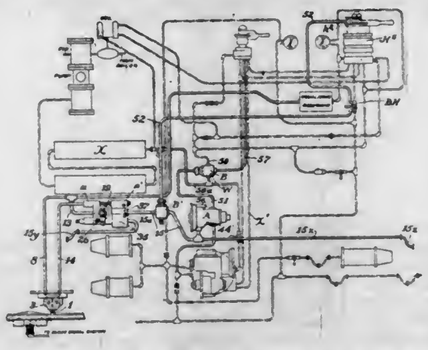
1,696,382. TRAIN-CONTROL APPARATUS. PATRICK J. CLIFFORD, Falls, Pa., assignor, by mesne assignments, to Train Control Corporation of America, a Corporation of Delaware. Substitute for abandoned application Serial No. 454,684, filed Mar. 23, 1921. This application filed Feb. 14, 1928. Serial No. 254,312. 25 Claims. (Cl. 246—182.)



1. In a train controlling system, automatic brake applying means to be operated by air pressure, for applying the brakes, an eliminating valve for cutting off the supply of air to said automatic means to eliminate the function thereof when the engineer is attentive and operates his valve to effect application of the brakes, and controlling means for operating the eliminating valve by the engineer independently of the operation of the engineer's valve, to eliminate the function of the automatic brake applying means when the train is running at a prescribed reduced speed, substantially as described.

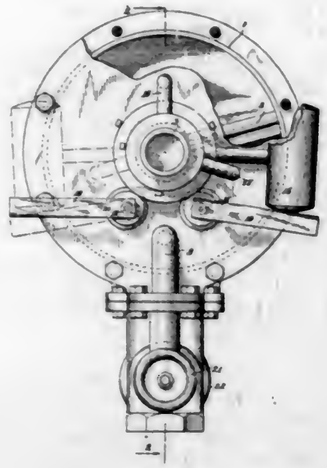
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1,696,383. SYSTEM OF ELIMINATING AUTOMATIC TRAIN-CONTROL APPARATUS. PATRICK J. CLIFFORD, Falls, Pa., assignor to Train Control Corporation of America, Scranton, Pa., a Corporation of Delaware. Substitute for abandoned application Serial No. 667,722, filed Oct. 10, 1923. This application filed Jan. 27, 1928. Serial No. 250,035. 4 Claims. (Cl. 246—183.)



1. In combination in automatic train stop systems, automatic train stop apparatus on the vehicle or engine, means for eliminating the function of said automatic apparatus as a consequence of the engineer setting his brake valve in service position and thus retarding the train, a cut out valve to render the engine dead so far as braking is concerned, so that said engine may be coupled up with a first engine to assist the same with its motive power, said eliminating means being nullified when said cut out valve is closed, so that in case said valve is closed on the first engine, the automatic train stop means thereon will be effective, even though the engineer sets his automatic brake valve in braking position, substantially as described.

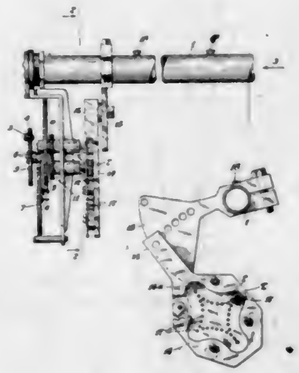
1,696,384. IRRIGATING APPARATUS. WALTER H. COLES, Troy, Ohio. Filed Oct. 26, 1921, Serial No. 510,635. Renewed Oct. 6, 1925. 8 Claims. (Cl. 299—66.)



1. Irrigating apparatus including: a casing, an oscillatory sprinkler pipe extending through said casing, a paddle within said casing and mounted fast on said pipe, reversible valve mechanism for supplying and exhausting water to and from said casing alternately on opposite sides of the paddle, means for conducting exhaust water from said valve mechanism to said pipe, and means for supplying water to said valve mechanism and to said pipe independently of the valve mechanism.

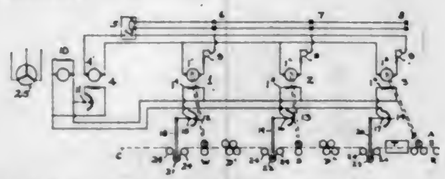
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1,696,385. IRRIGATING DEVICE. WALTER H. COLES, Troy, Ohio, assignor to The Skinner Irrigation Company, Troy, Ohio, a Corporation of Ohio. Filed June 4, 1926. Serial No. 113,636. 9 Claims. (Cl. 299—62.)



2. An irrigating device including: an oscillatory sprinkler pipe, a rotatable driving gear, a polygonal-sided gear meshing with and traveling about, the driving gear, and connections from the polygonal-sided gear to the pipe, to thereby oscillate the latter.

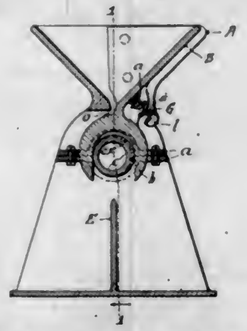
1,696,386. RANGE DRIVE. JAMES W. COREY, Cleveland Heights, Ohio, assignor to The Reliance Electric & Engineering Co., Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 24, 1925. Serial No. 64,585. 11 Claims. (Cl. 271—2.3.)



1. In apparatus for treating a continuous web of material, the combination of successive treating sections, a dancer roll engaging the web of material in advance of each such treating section, a separate electric motor for driving each treating section, separate rheostat means controlled by each said dancer roll and connected in series with the field of the following section drive motor, a direct current generator for supplying the armatures of said motors in parallel, an overload cut-out for each motor, a main switch between said generator and said armatures, means convenient to each motor for controlling said switch, a direct current exciter generator for supplying the fields of said motors and said generator, rheostat means connected in series with the field of said generator, and means for driving said generator and said exciter generator.

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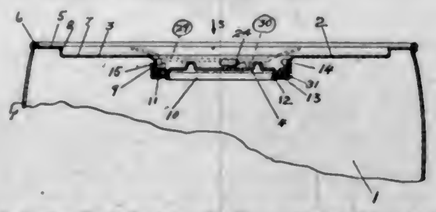
1,696,387. CRUSHING MACHINE. PAUL L. CROWE, Baltimore, Md. Filed Nov. 25, 1925. Serial No. 71,419. 4 Claims. (Cl. 83—53.)



1. In a crushing machine, the combination of two hopper-sections provided with opposite crusher-faces, one of said sections being pivotally connected to the other by means of a yielding elastically supported pivotal connection for the purpose specified, and means to oscillate the pivotally connected hopper-section with relation to the other one of said hopper-sections.

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1,696,388. CLAMPING LID FOR CONTAINERS. DAVID W. CURTIS, Oakland, Calif. Filed May 20, 1925. Serial No. 31,503. 1 Claim. (Cl. 220—40.)

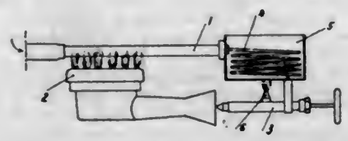


A closure for a drum or the like, comprising a top plate having an annular section of the same depressed to form an annular flange and a ledge extending inwardly from the edge thereof and terminating in an annular curl forming a seat, and an annular groove therearound, a gasket in said groove exceeding the curled seat in height, ribs extending inwardly from the flange, intermediate the height thereof, a closure cap formed with peripheral recesses allowing the same to be lowered past the ribs and with adjacent cams adapted for clamping introduction between the gasket and the bottom faces of the ribs on a turning motion; the closure cap being formed with an annular depression arranged to be pressed upon the curled seat when the cap is placed in position.



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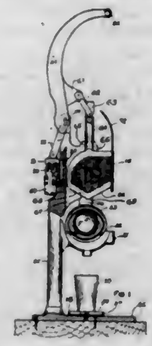
1,696,389. VAPOR BURNER. CHARLES EDMOND DE-BAECKER, Paris, France. Filed Sept. 14, 1926, Serial No. 135,391, and in Belgium Sept. 17, 1925. 3 Claims. (Cl. 158—53.)



1. In a liquid fuel vapor burner, the combination of a fuel feeding pipe, a vaporizer connected with and forming a continuation of said pipe, a coil connected with the outer end of said vaporizer, heat storing material in which the coil is disposed, an auxiliary burner adapted to heat said coil and material, means for feeding the auxiliary burner with vapor passing out of the coil, and a main burner adapted to heat the vaporizer.

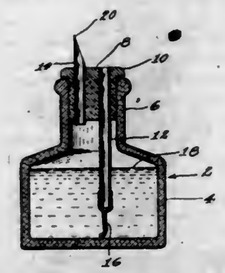
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1,696,390. MACHINE FOR EXTRACTING JUICE FROM FRUIT. BRADFORD H. DIVINE, Utica, N. Y. Filed Apr. 30, 1926. Serial No. 105,854. 3 Claims. (Cl. 100—41.)



2. In a machine for extracting juice from fruit the combination of a standard, a fruit support, a knife slidingly mounted above said support for movement in a straight line towards and from said support and adapted to descend through said fruit, squeezing plates movably mounted at the opposite sides of said support and adapted to be brought towards each other against the fruit, an operating lever mounted upon said standard and operatively connected to said knife and said squeezing plates whereby a single operating stroke of the lever moves the knife downward through the fruit and presses the plates against the fruit and a single return stroke of said lever withdraws the plates and raises the knife.

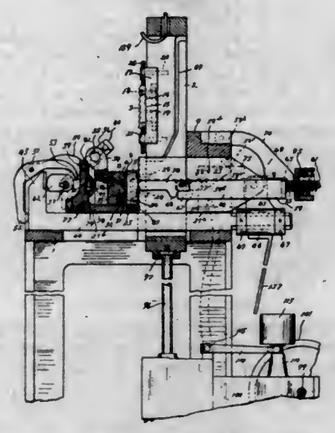
1,696,391. LIQUID DISPENSER. CURTIS RALSTON ECKBERG, Chicago, Ill. Filed May 28, 1928. Serial No. 281,154. 8 Claims. (Cl. 120—57.)



1. In a liquid dispensing device, a container having an opening to permit the discharge of liquid therefrom, and means which is responsive to the tilting of the container to effect an increase in pressure within the container, to thereby cause a predetermined amount of liquid to be dispensed through the discharge opening.

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1,696,392. MACHINE FOR TRIMMING THE EDGES OF BEARINGS OR LIKE SECTIONS. CHARLES W. EOGENWEILER and WILLIAM J. FIEGEL, Detroit, Mich., assignors to Bohn Aluminum and Brass Corporation, Detroit, Mich., a Corporation of Michigan. Filed Feb. 9, 1926. Serial No. 87,056. 12 Claims. (Cl. 90—33.)



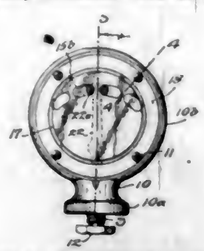
1. In a machine for trimming bearing or like sections, a reciprocable ram, cutters carried by the ram for operation on said section, means for clamping the section in position for the cutting operation, a source of power, a pull rod, a crank establishing a driving connection between said source of power and said pull rod for reciprocating the ram, means for rotating said crank including a clutch, a rotatable cam associated with the clutch and operable thereby, causing the application of the power to impart a single revolution to the crank and hence a single complete cycle of reciprocation to the ram, and braking means operable by said cam and automatically responsive to the completion of the said crank revolution for quickly bringing the crank and ram to rest.

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1,696,393. MOTOR GAUGE. EDGAR D. FAGEROS, Minneapolis, Minn. Filed May 28, 1927. Serial No. 194,950. 5 Claims. (Cl. 116—114.)

1. A motor gauge having in combination, spaced oppositely disposed disks, an oscillating indicator hand pivoted

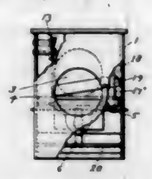
to swing between said disks and parallel therewith, said disks having adjacent their upper edges a series of oblong openings having their longitudinal center lines arranged on a line substantially concentric with the pivot of said hand,



said hand having a portion movable into alinement with said openings, said hand having a portion moving in engagement with one of said disks to prevent undue vibration of said hand.

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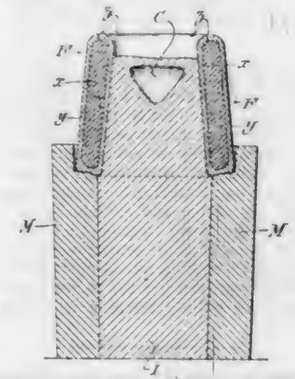
1,696,394. TRAP NEST. THEODORE P. GARANKIN, New York, N. Y., assignor of one-half to Bruno A. Mueller, New York, N. Y. Filed June 4, 1927. Serial No. 196,541. 4 Claims. (Cl. 119—47.)



1. In a trap nest, the combination with a housing of a nest board, the opposite sides of said housing being provided with entrance and exit apertures, boards pivotally supported on the walls of said housing in a cooperative relation to said apertures, links connecting said boards with said nest board, said boards being arranged to stay in the lowered positions, one of said boards when in a lowered position being adapted to open said entrance aperture, and the other of said boards when in a lowered position being adapted to close said exit aperture, the weight of said boards tending to keep said nest board in a raised position, means to lock said nest board in its raised position, said locking means being adapted to be released by an egg laid by the hen.

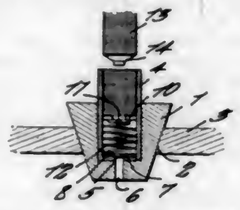
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1,696,395. SHRINK-HEAD CASING FOR INGOT MOLDS. EMIL GATHMANN, Baltimore, Md. Filed Oct. 28, 1926. Serial No. 144,800. 3 Claims. (Cl. 22—147.)



1. A shrink head casing for ingot molds comprising a self-supporting core consisting of slowly combustible material and a non-metallic self-supporting casing, which completely surrounds the core, composed of noncombustible material, but having vent holes at its upper end.

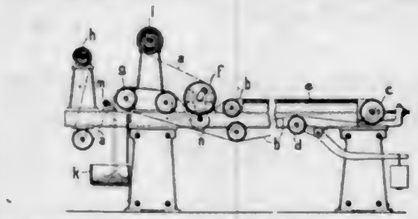
1,696,396. VALVE. LAWRENCE C. GERLINGER, Seattle, Wash. Filed May 25, 1927. Serial No. 194,186. 1 Claim. (Cl. 217—101.)



The combination with a cask, having a bung hole, of a stopper for the bung hole, said stopper having a central chamber and a central aperture in the bottom of the chamber, a tube fitting in the chamber, said tube having a bottom formed with an opening which registers with the aperture in the stopper, the bottom of the tube surrounding the opening therein forming a valve seat, spaced guide lugs formed on said seat on opposite sides of the central opening, a valve having apertures to fit over the lugs on the valve seat, said apertures being larger than the lugs to form exit openings when the valve is in open position, lugs projecting from the inner walls of the tube, a tension spring between the last mentioned lugs and the valve, and a removable plug for the tube.

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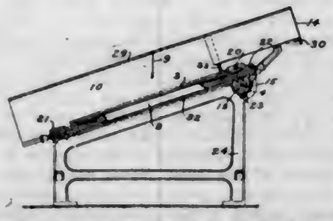
1,696,397. APPARATUS FOR THE MANUFACTURE OF MICA-COATED FIBROUS MATERIAL. EMIL HAEFELY, Basel, Switzerland. Filed July 12, 1924, Serial No. 725,723, and in Switzerland July 28, 1923. 1 Claim. (Cl. 154—2.5.)



An apparatus for the manufacture of mica-coated fibrous material for electric insulating purposes, comprising an endless conveyor band with mica scales freely distributed thereon, tensioning means for said conveyor band, means to supply an agglutinating web of fibrous material and a combined pressure and heating roller arranged to serve first as guiding and preheating member for said agglutinating web and then to apply and press, while heating, said agglutinating web of fibrous material upon the mica carrying conveyor band substantially as and for the purpose described.

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1,696,398. BEET TOPPER. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Aug. 18, 1924. Serial No. 732,875. 5 Claims. (Cl. 146—85.)



1. In combination, a pair of rotary inclined rolls having cooperating surfaces formed to remove appendages from



objects travelling therealong, gears associated with the upper ends of said rolls for rotating the same, a housing enclosing said gears, sealing means for preventing ingress of juice to and egress of lubricant from within said housing along said roll surfaces, and means for delivering said objects upon said rolls below said sealing means.

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1,696,399. PROCESS OF AND APPARATUS FOR TREATING FRUIT. OSWALD H. HANSEN, Port Washington, Wis., assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis., a Corporation of Wisconsin. Filed Jan. 26, 1925. Serial No. 4,968. 9 Claims. (Cl. 99—11.)

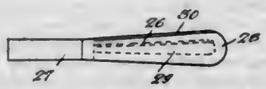


3. In combination, a plurality of superposed plates having staggered discharge openings therein and forming a series of treating chambers, means for supplying fruit to the upper of said chambers, means for discharging treated fruit from the lower of said chambers, a plurality of radial conveyor arms movable through each of said chambers, and means for applying variable degrees of heat to different chambers of said series.

9. The process of treating fruit, which comprises, simultaneously rolling a limited number of the fruit berries along a surface in a confined chamber and applying heat thereto, subsequently rolling a limited number of the berries along another surface in a confined chamber and simultaneously applying higher temperature, and finally immersing the heated berries in hot syrup.

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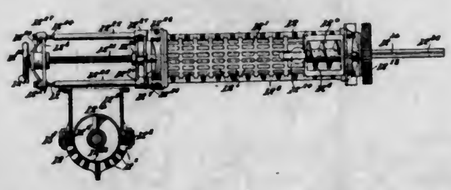
1,696,400. PROCESS FOR MAKING THERMOMETER TUBES. ALFRED T. HESPE, East Orange, N. J. Filed Dec. 29, 1923. Serial No. 683,406. 8 Claims. (Cl. 49—79.)



8. The method of making tubing which has a colored stripe forming part of the bore, which comprises the steps of attaching a piece of colored glass directly to the end of the blow-pipe in such a manner that the colored glass is adjacent to, and to one side only of the hole in the blow-pipe, gathering clear glass therearound, blowing a cavity in the glass on the pipe with the colored glass along one side of the cavity only, and forming the blank thus made into a tube.

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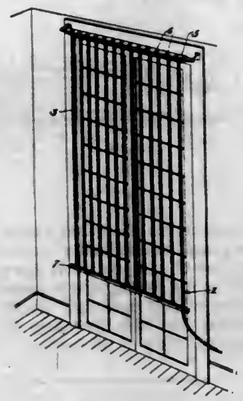
1,696,401. CONTINUOUS-SCREW PRESS. STANLEY HILLER, San Jose, Calif., assignor to Stanley Hiller, Inc., San Jose, Calif. Filed Nov. 14, 1922. Serial No. 600,913. 6 Claims. (Cl. 100—48.)



1. In a press having a shell into which the material to be pressed is introduced, said shell having openings substantially throughout its surface, a screen fitted within the shell, a screw conveyor within said screen, a feed opening at one end of the shell, means for withdrawing the screw out of the discharge end of the shell, comprising a shaft on the screw conveyor extending beyond the discharge end of the shell, and an out-rigger bearing head for said shaft; the combination of means for imparting a pull to the shaft for withdrawing the screw conveyor and a thrust to the shaft for returning the screw conveyor.

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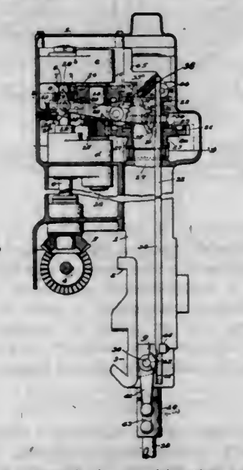
1,696,402. RADIOANTENNA. CHARLES A. HORTON, Providence, R. I., assignor to Hope Webbing Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Aug. 7, 1924. Serial No. 730,651. 5 Claims. (Cl. 250—33.)



1. In combination with a roller support an antenna comprising a plurality of continuous non-insulated, uncovered conductor bands suspended from and spaced apart axially along said roller, each intermediate band having its opposite ends electrically connected alternately to the adjacent ends of the bands at opposite sides thereof, the rotation of the roller winding each band upon itself to shorten the effective length of the antenna as a whole.

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1,696,403. ACCESSIBLE TWIN-LEVER GEAR SHIFT FOR DRILL HEADS. DAVID C. KLAUSMEYER, Cincinnati, Ohio, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 18, 1924. Serial No. 738,440. 3 Claims. (Cl. 74—57.)



1. In a machine tool, in combination, a plurality of shiftable gear-units; a gear-shifter engaging each of said

gear-units; gear-shifting levers of the first and second class, respectively, journaled coaxially in said machine tool between said gear units, each of said levers being formed integral with a gear-segment and each lever wholly supporting one of said gear shifters; actuating hand-levers located remote from gear-shifting levers; and operative connections between said hand levers and said gear-shifting levers whereby the latter are actuated by the former, each of said connections including a rack-bar engaging the gear-segments on said gear-shifting levers and operative connections between said actuating levers and said rack bars.

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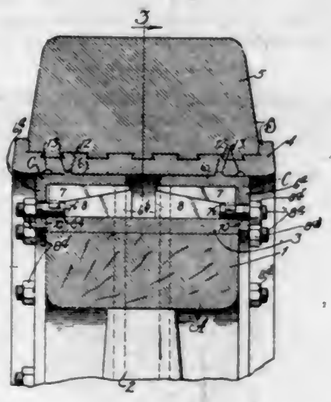
1,696,404. AEROPLANE. PETER G. KLUSE, Los Angeles, Calif. Filed Feb. 29, 1928. Serial No. 258,115. 5 Claims. (Cl. 244—18.)



1. In an aeroplane, an elongated casing having a plurality of superposed longitudinally extending air chambers, the uppermost of said chambers having air openings through the top of the casing, and a propeller adapted to entrain air through said openings, direct it toward the front of the casing and then discharge it in a rearward direction through the sides of the casing.

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1,696,405. WHEEL CONSTRUCTION. WILLIAM C. MARTIN, Chicago, Ill., assignor of one-fifth to John H. Lee, Oak Park, Ill. Filed Feb. 18, 1928. Serial No. 255,345. 5 Claims. (Cl. 301—20.)

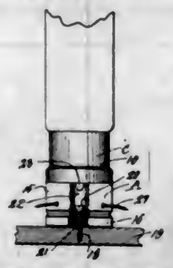


1. In combination, a wheel-center, an encircling tire having an annular base, a pair of channel-form rings interposed between the wheel-center and said annular base, and a series of wedge-devices associated with each ring, said wedge-devices comprising a pair of complemental wedge-members, one of which is provided with a bolt extending through the outer flange of the ring and equipped with a nut at the outer side of said flange.

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1,696,406. RADIO TUBE SOCKET. FRANK S. MASLEY and ALBERT P. WASIL, Homestead, Pa. Filed Apr. 28, 1924. Serial No. 709,558. 2 Claims. (Cl. 173—328.)

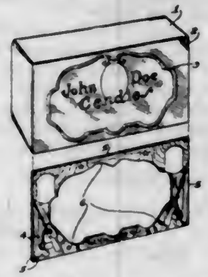
1. A radio tube socket comprising a pair of solid circular sections formed of insulation, the outer section having a plurality of socket pin openings formed therein, bearing sleeves carried by the outer section, the sleeves having radially extending openings formed therein communicating with radially extending openings formed in the outer section, means for clamping a conducting wire to said



sleeve, an electric conducting lug strap connected with said sleeve, socket sleeves formed on the lug straps and fitted in the socket pin openings, said lug straps being arranged between said sections, and means for connecting the sections together and to a support.

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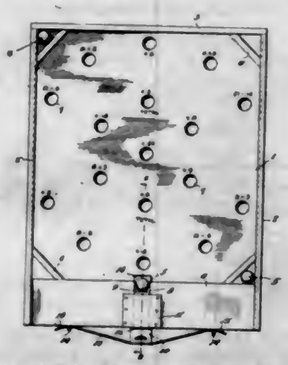
1,696,407. SEASON-GREETING FRAME. MALCOLM A. MCDONELL, Cincinnati, Ohio. Filed Mar. 24, 1928. Serial No. 264,479. 1 Claim. (Cl. 229—8.)




The combination with a package consisting of a box filled with gift articles, having an outer top adapted to be placed over the usual box cover and displaying information relative to some special occasion, said outer top having a section removed whereby the ordinary top will be exposed displaying suitable information to indicate the nature of the gift articles, whereby the package may be sold as a gift package with reference to special occasions with said auxiliary top in place, or as a standard staple package when the auxiliary top is removed.

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1,696,408. GAME. WILLIAM SIDNEY MCMAHON, Malden, Mass. Filed Mar. 28, 1928. Serial No. 265,457. 2 Claims. (Cl. 273—119.)



1. A game board having its upper playing surface provided with pockets, and enclosed by guard members, and having an end guard member provided with a transverse opening which is exposed at its top inner end to receive a ball, a plunger slidable within the opening and headed at its outer end to provide stop means and a grip for the hand, a flat spring having opposite end portions reduced to provide stop shoulders, and engaging the outer end of the plunger midway of its ends, and retaining means engaging the reduced end portions of the spring between the stop shoulders and secured to the end member in which the plunger is mounted.



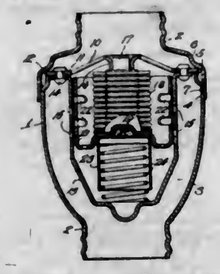
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1,696,409. PROCESS FOR VULCANIZING RUBBER AND PRODUCTS OBTAINED THEREBY. IWAN OSTROMISLENSKY, New York, N. Y., assignor to Revere Rubber Company, Chelsea, Mass., a Corporation of Rhode Island. Filed Mar. 24, 1925. Serial No. 18,056. 18 Claims. (Cl. 18—53.)

1. A process for accelerating the vulcanization of rubber without sulphur in the presence of organic nitro compounds which comprises combining rubber with a nitro benzol and an element of the carbon group, and vulcanizing the rubber.

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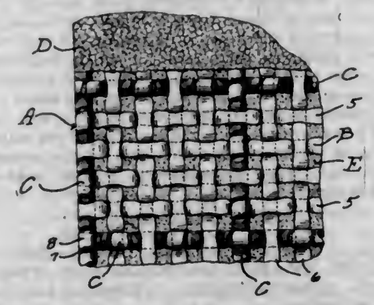
1,696,410. THERMOSTAT CONTROL VALVE FOR COOLING SYSTEMS. JOHN V. O. PALM, Cleveland, Ohio, assignor, by mesne assignments, to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 5, 1923. Serial No. 623,004. 10 Claims. (Cl. 236—34.)



1. In a control valve for cooling systems, a valve casing having high and low pressure sides and adapted to be mounted in the system, a double sleeve valve in said casing, said valve having a normal leakage, and a separate thermostatic bellows member attached to and located within the inner sleeve of said valve, said bellows being mounted on the low pressure side.

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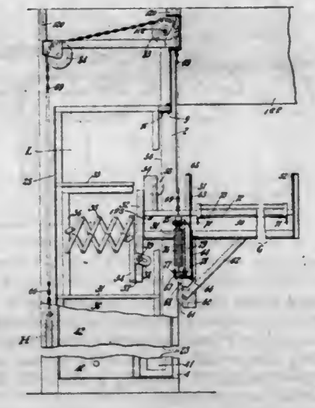
1,696,411. SHIELDING FOR RADIO APPARATUS. ADOLPH CROFTON PECK, Sandusky, Ohio. Filed Sept. 9, 1927. Serial No. 218,519. 15 Claims. (Cl. 250—16.)



1. In a shield of the class described, a sheet like supporting base, a facing of fragmentitious material having electrical conductivity, affixed to said base, and a grounding conductor carried by the base and having electrical contact with the facing at spaced points throughout the area thereof.

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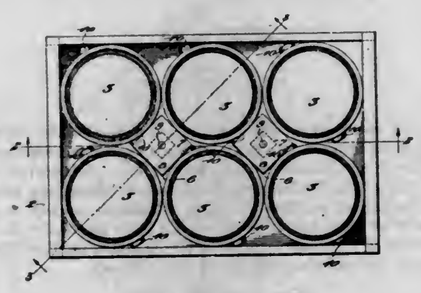
1,696,412. CEILING BED. THORNTON W. PRICE, New Brunswick, N. J. Filed June 18, 1926. Serial No. 116,913. 8 Claims. (Cl. 5—10.)



1. In a device of the class described, comprising a bed, means by which the bed is mounted for bodily up and down movement, a counter-weight for the bed, a cable device connecting the bed with the counter-weight and operating means engaging the cable by which to move the cable for thereby raising and lowering the bed, the combination therewith of parts comprised in said operating means effective to prevent lowering of the bed except as the result of an operation of said operating means, means to prevent downward movement of the counter-weight in the event of failure of the cable, and a portable support for all of said parts with the bed at one side thereof and the counter-weight at the opposite side thereof whereby the whole constitutes a unitary portable article of furniture.

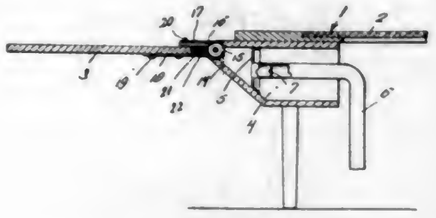
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1,696,413. PACKING CASE OR CRATE. WAYLAND W. RICE, Providence, R. I., assignor to United States Gutta Percha Paint Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 6, 1926. Serial No. 79,635. 3 Claims. (Cl. 217—52.)



1. A packing case or crate for cans and other containers provided with spool-shaped struts having enlarged heads at their ends, said struts extending between the cover and bottom of the case and abutting thereagainst to brace the case, and arranged between the cans with their heads bearing against the rims thereof to hold the cans from rubbing contact on their sides.

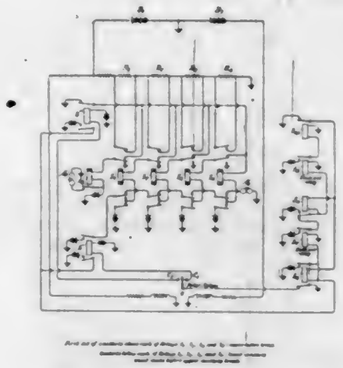
1,696,414. CLOTHES AND FABRIC CLEANING DEVICE. CARL W. ROBERTS, Parsons, Kans. Filed Apr. 16, 1926, Serial No. 102,600. Renewed Aug. 31, 1928. 13 Claims. (Cl. 8—8.)



1. In combination, means for maintaining a piece of clothes or fabric in spaced relation to supporting means, means for supplying a blast of fluid to the space between the supporting means and the piece of clothes or fabric, and means for detachably securing a piece of clothes or fabric on the blast supply means.

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1,696,415. VOLTAGE-BALANCE REGULATOR. LELAND C. ROBERTS, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 9, 1927. Serial No. 211,830. 11 Claims. (Cl. 171—229.)

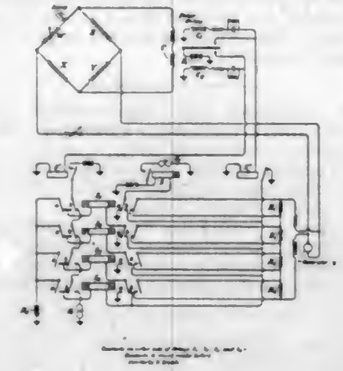


1. In association with two sources of electric current subject to different average working drains, an automatic system for maintaining an approximate balance of the voltages of the two sources, said system comprising means for placing an auxiliary load on the source subject to the smaller average working drain and means responsive to unbalances of the source voltages for changing said auxiliary load to restore the balance of the voltages.

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1,696,416. VOLTAGE REGULATOR. LELAND C. ROBERTS, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 9, 1927. Serial No. 211,831. 2 Claims. (Cl. 171—229.)

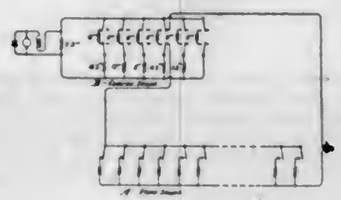
1. In association with a source of electric current having a resistance associated therewith and controlling the voltage thereof, a system for regulating the voltage of said source, said system comprising a sensitive polar relay, a balance bridge in circuit with the source and responsive by unbalance to variation of the voltage of the source, the unbalancing of said bridge operating said polar relay, means responsive to the operation of said polar relay for changing



said controlling resistance associated with the source, and means for giving an alarm if such change fails to restore the voltage level of the source.

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1,696,417. VOLTAGE REGULATOR. LELAND C. ROBERTS, Towaco, N. J., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 3, 1927. Serial No. 217,519. 4 Claims. (Cl. 171—229.)



1. In association with a source of electric current having a resistance associated therewith and controlling the voltage thereof, a system for regulating the voltage of said source, said system comprising a voltmeter relay associated with the source, a resistance in shunt around said voltage controlling resistance, circuit-making means responsive to the operation of the voltmeter relay due to a deficiency of the voltage of the source for decreasing said shunt resistance by gradual steps until the level is restored, and circuit-breaking means responsive to the operation of the voltmeter relay due to an excess of the voltage of the source for increasing said shunt resistance by gradual steps until the level is restored.

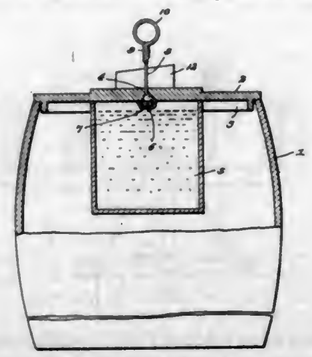
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1,696,418. COMBINED BARREL COVER AND PAIL SUPPORT. EMIL E. SCHULZ, McConnell, Ill. Filed Mar. 15, 1928. Serial No. 261,815. 2 Claims. (Cl. 217—81.)

1. In combination, an open top barrel, a cover therefor, a relatively small receptacle open at its upper end for disposition in the barrel, a cross bar extending transversely across the top of the inner receptacle, and means carried by the cover for detachable engagement with the cross bars to secure the inner receptacle against the under side of the cover, whereby to hold the cover on the barrel against acci-



dental displacement therefrom, said last mentioned means comprising a member slidable through the cover, a hook formed on the lower end of the member for engagement



across the cross bar, and a wedge cooperating with said member and the cover to hold the hook in an operative position.

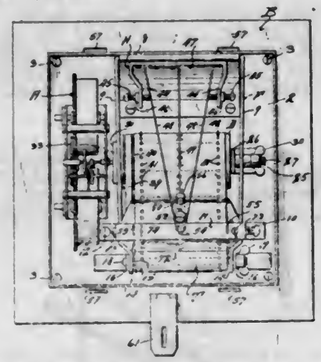
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1,696,419. METHOD OF PRODUCING ARTIFICIAL COFFEE AROMA. HERMANN STAUDINGER, Freiburg, Germany, and THADEUS REICHSTEIN, Zurich, Switzerland, assignors to the Firm Internationale Nahrungs- und Genussmittel Aktiengesellschaft, Schaffhausen, Germany. Filed Oct. 15, 1926, Serial No. 141,873, and in Germany Nov. 4, 1925. 15 Claims. (Cl. 99—11.)

1. A method of producing artificial coffee aroma, comprising mixing fugitive mercaptans and sulphides derived therefrom and reacting therewith upon the oxygen-containing and nitrogen-containing and other compounds present in the natural coffee aroma.

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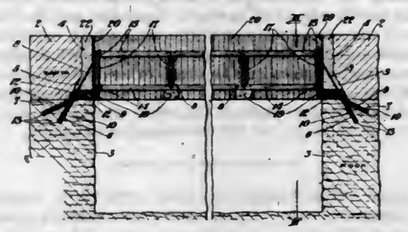
1,696,420. IMPACT RECORDER. EDWARD STOUT, Burlington, Iowa. Filed Feb. 26, 1925. Serial No. 11,792. 2 Claims. (Cl. 234—1.)



1. An impact recording device comprising, in combination, a base member, an outstanding plate secured thereto, said plate being continued by a returned plate inclined toward the base member in a direction away from the plate, means for connecting the returned plate to the base member, a substantially U-shaped frame secured between the outer end portions of the plates, a brace member substantially in the form of an inverted U having its side arms secured to the base member, the side members of the frame having their outer end portions secured to the side arms of the brace member, a platform supported by the side members of the frame at a point below the upper intermediate portion of the brace member, a tape for movement across the platform, and time operated means for imparting movement to the tape.

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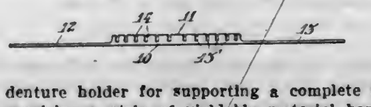
1,696,421. METHOD OF AND APPARATUS FOR SUPPORTING THE SIDE WALLS OF EXCAVATIONS. SAM HOUSTON SHOWELL, McKees Rocks, Pa. Filed Mar. 21, 1928. Serial No. 263,249. 8 Claims. (Cl. 61—41.)



1. The method of preventing the caving in of the side walls of excavations, which consists in removing the earth from the excavation for a predetermined depth, then forming holes downwardly and outwardly on an angle from the base of the preformed excavation at a plurality of spaced points along the sides thereof, then securing tie-rods in said holes, then positioning wale-members along the side walls of the preformed excavation and securing said wales to said rods, then driving sheeting home between the side walls of said excavation and said wales, and then continuing said excavation to the desired depth without further shoring or support.

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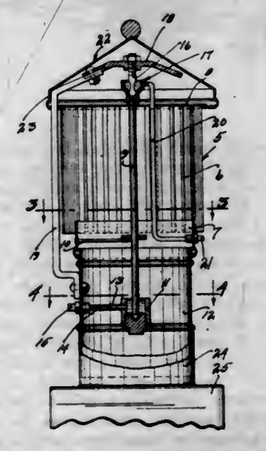
1,696,422. PROSTHETIC DENTISTRY. EUGENE A. THAYER, Urbana, Ill. Filed Aug. 25, 1924. Serial No. 733,867. 3 Claims. (Cl. 32—4.)



1. A denture holder for supporting a complete set of teeth comprising a strip of yieldable material having a center portion and end portions at the extremity of the center portion, the face of said center portion normally positioned vertical, and having tapered vertical slots formed therein for frictionally securing teeth thereto, and wires formed on the extremities of said strip for securing other teeth thereto.

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1,696,423. VENTILATOR. GEORGE G. TIERNEY, Minneapolis, Minn. Filed May 19, 1927. Serial No. 192,585. 1 Claim. (Cl. 98—75.)

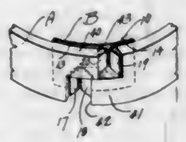


In a ventilator, an upright tubular body, a cylindrical wind wheel having a vertical shaft axially aligned with the axis of the body, said wheel having a head completely clos-

ing the upper end of the wheel, a plurality of circumferentially spaced upright supporting arms on the body extending outward of the wind wheel and above the same, said arms having inwardly and upwardly extended extensions overlying the head of the wind wheel a conical cap supported on the arms and having a depending annular flange capping the arms and head of the wind wheel, said cap being substantially closed by the head of the wind wheel, a tie member connecting the arm extensions within the closed cap, an upper bearing on the tie member within the closed cap for the shaft of the wind wheel, and a lower bearing on the body for the lower end of the shaft.

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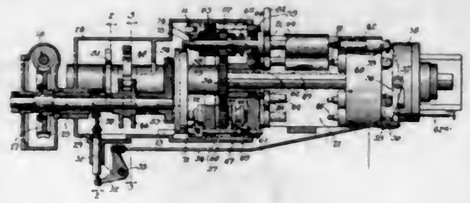
1,696,424. COMPRESSION AND SUCTION SAVING CONSTRUCTION FOR PISTON RINGS. JAMES HORACE THOMPSON, New Smyrna, Fla. Filed Sept. 18, 1924. Serial No. 738,428. 12 Claims. (Cl. 74—109.)



11. In combination with a piston ring having lapping groove a curved strip adapted to be placed in the piston groove in rear of the ring and having projections thereon for extending between the ends of the ring.

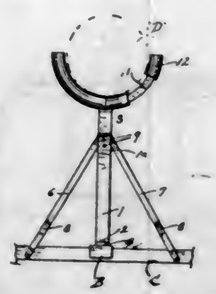
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1,696,425. AUTOMATIC TURNING MACHINE. DAVID TURCOTT, Beloit, Wis., assignor to Yates-American Machine Company, Beloit, Wis., a Corporation of Delaware. Filed June 23, 1927. Serial No. 200,902. 1 Claim. (Cl. 142—3.)



In an automatic turning-machine, the combination of a plurality of pairs of work-holding centers, means to support said centers, means to revolve said support intermittently, means to rotate sad centers around their own axes, means to cause said rotating means to become operative and inoperative on the individual pairs of centers, means to bring successive pieces of work into a definite position, means to hold one center of each pair in a definite angular relation to the corresponding piece of work when in such specified position and while said center support is temporarily stationary, means to cause said centers to grasp such piece of work while such designated center of the pair is thus held, and to release the finished product, including a cam comprising stationary and movable sections, and means to operate said movable cam section to cause the centers to grasp the pieces of work, and cutting means through the field of action of which the successive pieces of work are transported during the rotation of such pieces by their centers.

1,696,426. WATERSPOUT HOLDER. JAMES M. WELLS, Salt Lake City, Utah. Filed Feb. 19, 1927. Serial No. 169,638. 1 Claim. (Cl. 248—30.)



In a water spout holder for use on railroad water tanks the combination of a three sided angled bracket adapted to be secured to said tank; and with adjustment holes in the bottom leg thereof; side braces having one end adapted to be secured to said tank and the other end secured to said angled bracket; a bolt to secure both of said side braces to said angled bracket by engagement through said holes; a semicircular spout retaining member secured to the middle leg of said bracket; and sections of hose cut and placed over said retaining member to protect the spout from side movement when held therein.

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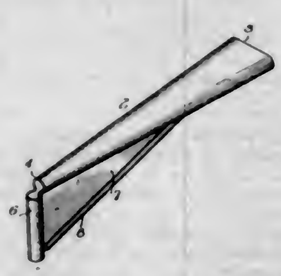
1,696,427. RAILWAY-BOX-CAR CARLINE. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Feb. 8, 1926. Serial No. 86,817. 2 Claims. (Cl. 108—5.6.)



1. A carline of I-beam section with its web vertically arranged and having end portions of the lower flange and the web cut away leaving the upper margin downwardly curved, the upper flange extending beyond the lower flange and curved downwardly over said curved margin.

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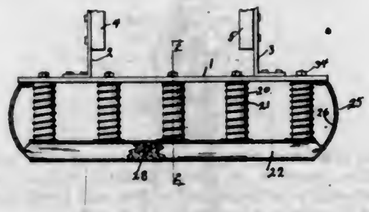
1,696,428. ATOMIZER. EDWARD C. BROWN, Rochester, N. Y., assignor to The E. C. Brown Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 26, 1925. Serial No. 58,799. 6 Claims. (Cl. 299—142.)



1. In an atomizer, the combination with a well tube, of a mouth piece having an atomizing relationship with the upper end of the tube, said mouth piece being formed of sheet material and provided at its seam with a flange having an extension embracing and connecting it to the well tube.



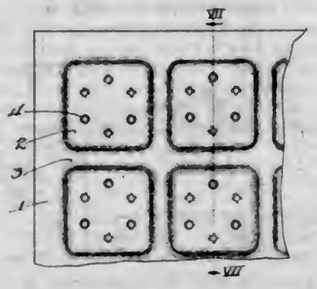
1,696,429. SHOCK ABSORBER. JOHN EBERHARD CHRISTEN, San Rafael, Calif. Filed July 10, 1928. Serial No. 291,582. 5 Claims. (Cl. 293—55.)



1. A bumper, a solid bar adapted to be secured to a movable vehicle or vessel, a plurality of studs extending therefrom, a plurality of cushion members one for each stud, and a cushion member connecting all of the first cushion members for preventing injury to the vehicle or vessel.

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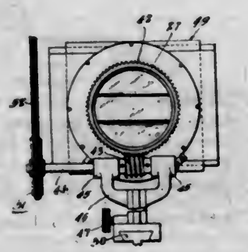
1,696,430. EGG-CASE FLAT. FREDERICK W. COLE, Chicago, Ill. Filed Sept. 23, 1926. Serial No. 137,208. 1 Claim. (Cl. 217—27.)



An egg case flat, having intersecting grooves formed therein for receiving a filler and raised portions defined by said grooves, oppositely extending punched projections being formed in said raised portions for contacting the eggs, said projections alternately extending in opposite directions.

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1,696,431. CAMERA ATTACHMENT. ERNEST J. CROCKETT, Los Angeles, Calif., assignor to Mack Sennett Inc., Los Angeles, Calif., a Corporation of California. Filed Feb. 2, 1925. Serial No. 6,264. 4 Claims. (Cl. 88—16.)



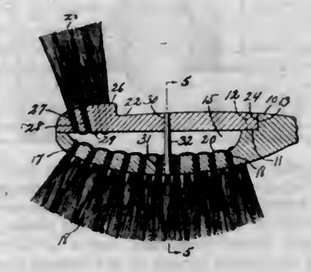
1. A camera attachment comprising a lens having multiplying facets, one of the facets being at the axis of the lens and parallel with the opposite face of the lens, another of the facets being at an angle to the opposite face, and means to rotate the lens in line with the objective lens of a camera.

1,696,432. PROCESS OF CONCENTRATING LOWER-ALIPHATIC-ACID SOLUTIONS. HENRY DREYFUS, London, and CLIFFORD IVAN HANEY, Spondon, near Derby, England, assignors to Celanese Corporation of America, a Corporation of Delaware. Filed Jan. 22, 1927, Serial No. 162,939, and in Great Britain Nov. 30, 1926. 18 Claims. (Cl. 260—122.)

1. Process for concentrating aqueous solutions of lower aliphatic acids, comprising extracting the aqueous solutions with an extracting medium comprising a solvent for the acid and a normally liquid hydrocarbon, both of lower boiling point than the acid.

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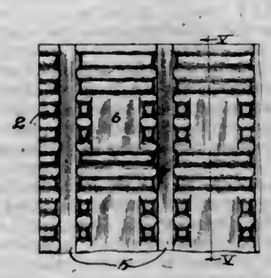
1,696,433. DENTURE BRUSH. HARRY W. FAUBERT and EDWARD E. WHEELOCK, Woonsocket, R. I. Filed Mar. 20, 1928. Serial No. 263,014. 2 Claims. (Cl. 15—167.)



1. In a denture brush, a handle, an elongated head comprising a portion continuous with the handle, and an adjoining flat offset portion, the front of the head being transversely and longitudinally convex, the offset portion being provided with an elongated recess curved transversely and longitudinally, the front of the head being provided with radially disposed holes communicating with the recess, tufts of bristles seated in the holes, a binding wire connecting the tufts and extending into the recess, a detachable housing plate resting upon the offset portion of the head with its rear face portion continuous with the handle closing the recess, said plate being provided at its outer end with a group of holes communicating with the recess for the reception of bristles, and means for detachably connecting the plate with the body.

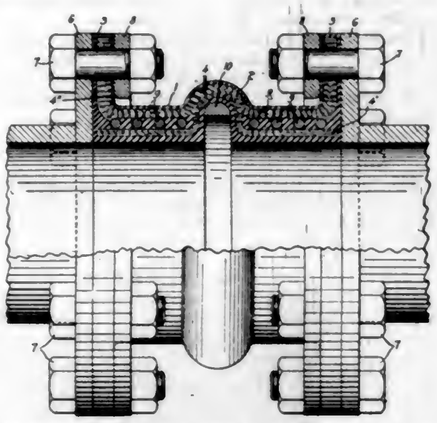
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1,696,434. EGG-CASE FLAT. GEORGE A. FILER, Cornell, Wis. Filed Oct. 6, 1926. Serial No. 139,771. 1 Claim. (Cl. 217—26.)



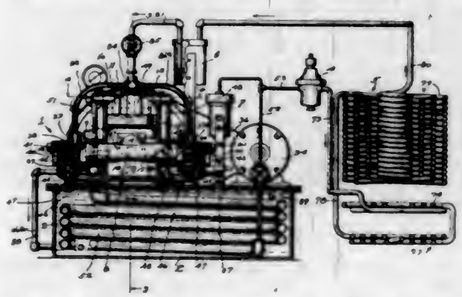
As an article of manufacture, an egg case flat comprising a single corrugated sheet of fibrous material having filler positioning grooves extending transversely of said corrugations, portions of said corrugations between said grooves being crushed to define egg receiving spaces.

1,696,435. EXPANSION JOINT. CLIFFORD A. FRALEY, Belleville, N. J., assignor to Revere Rubber Company, Chelsea, Mass., a Corporation of Rhode Island. Filed May 8, 1923. Serial No. 637,410. 1 Claim. (Cl. 285—90.)



An expansion joint comprising a tubular portion, an enlarged bulbous portion, and end connecting-flanges, formed of plies of fabric and rubber compound vulcanized thereto, metal reinforcing rings entirely enclosed within said plies of fabric and rubber compound, and a metal reinforcing ring within the hollow formed by the bulbous portion.

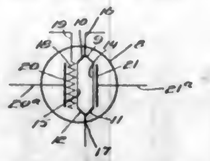
1,696,436. PUMP FOR REFRIGERATING APPARATUS. WILLIAM H. GRAY, Portland, Oreg. Filed Dec. 14, 1923. Serial No. 680,650. 2 Claims. (Cl. 230—185.)



1. In a refrigerating apparatus, a circulation pump element comprising a housing divided by a horizontal partition into upper and lower chambers, the upper chamber constituting a settling tank, the lower chamber constituting a lubricant receptacle, a pump cylinder opening through the wall of the lower chamber, a piston reciprocating in said cylinder, means located in said lower chamber for reciprocating said piston, valves controlling the inlet and outlet ports of said cylinder, respectively, the outlet port of said cylinder being connected by a conduit with said upper chamber, a stand pipe carried by and extending through said horizontal partition into said lower chamber, whereby the solid particles carried by the refrigerant are deposited in said settling tank and permitted to separate therein, and the lighter lubricant is returned through said stand pipe to the pump mechanism in said lower chamber.

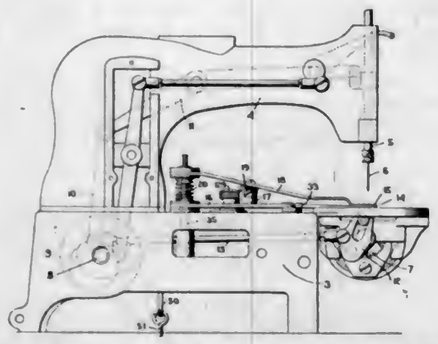
1,696,437. RADIO RECEIVING APPARATUS. REGINALD B. HUMPHREY, Swanton, Vt. Filed Nov. 5, 1924. Serial No. 747,931. 1 Claim. (Cl. 250—27.5.)

An electron tube structure comprising in combination an evacuated vessel, a pair of Y-shaped conductive members extending into said evacuated vessel with the axes thereof centered one over the other and aligned with each other at opposite ends thereof, a pair of filamentary



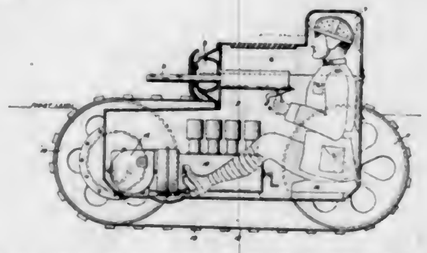
cathodes supported from the extremites of said Y-shaped conductive members, an anode mounted adjacent one of said filamentary cathodes, and a grid and anode mounted adjacent the other of said filamentary cathodes.

1,696,438. SEWING MACHINE. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed Aug. 19, 1922. Serial No. 583,010. 19 Claims. (Cl. 112—70.)



1. In a sewing machine, the combination with stitch-forming mechanism including a vertically-reciprocating needle operating in a fixed path, of work-holding means, means to vibrate the work-holding means in two different directions, thereby first to form a group of underlying stitches and then to form a group of overlying stitches, and means to vary the number of the overlying stitches without changing the length of the underlying stitches.

1,696,439. FIGHTING TANK. HARRY A. KNOX, Davenport, Iowa. Filed Feb. 3, 1926. Serial No. 85,783. 13 Claims. (Cl. 115—1.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

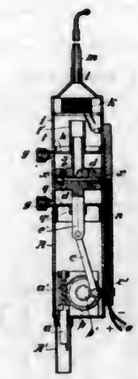


6. A track laying tank including a body, a motor therein, a transmission in front of the motor, a complete set of foot controls on each side of and at the front of the motor and an operator's seat in rear of the motor.

13. A tank including a body, a motor on the floor of the body, and a seat on the floor of the body arranged with respect to the motor so that the operator must straddle the motor.

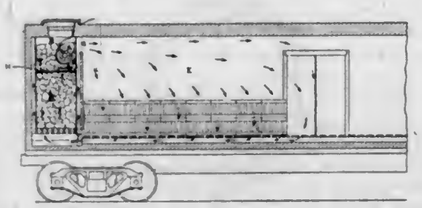


1,696,440. AIR BLOWER FOR DENTAL PURPOSES. ALOYS LÜBKE, Altena, Germany. Filed Dec. 5, 1927, Serial No. 237,868, and in Germany Dec. 11, 1926. 6 Claims. (Cl. 128—257.)



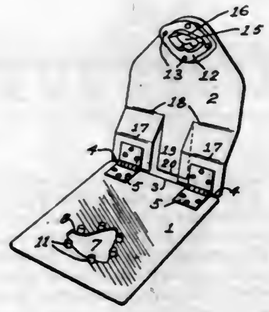
1. An air blower for dental purposes to be driven from the motor of a dental drill, said air blower having a casing, a revoluble worm, a worm wheel meshing with said worm, an air pump, a connecting rod for hingedly connecting said worm wheel with the piston rod of said air pump, all said parts being arranged within said casing, means for coupling said worm with the driving mechanism of a dental drill, said casing with said parts of the air blower arranged therein forming a compact structurally independent air blower, only connectible, for its drive, to the motor of a dental drill.

1,696,441. PROCESS FOR THE COOLING OF FRUITS AND VEGETABLES IN REFRIGERATOR CARS. CHARLES W. MANN, Los Angeles, Calif., and ALEXANDER GORDON GALLOWAY, Washington, D. C. Filed July 5, 1928. Serial No. 290,647. 1 Claim. (Cl. 62—24.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)



A process of cooling products stacked in a refrigerator car having an ice bunker, which consists in initially causing air by forced circulation to flow upwardly through the ice in the bunker, thus cooling the air, spreading said cold air over the top of the stacked products from whence it sinks down through the products, thereby cooling them and thence back again to the bunker to be again circulated, continuing the circulation until the proper low temperature has been reached; then discontinuing the forced circulation and then further cooling the products by natural circulation of air in the reverse direction.

1,696,442. DIE. CHARLES A. MESSMER, Jr., St. Louis, Mo. Filed Apr. 16, 1926. Serial No. 102,444. 4 Claims. (Cl. 164—29.)



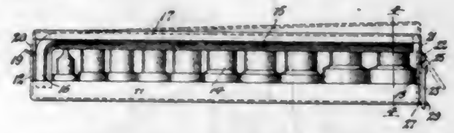
1. A device of the character described comprising a plate having an opening adapted to receive and locate a sheet of stock to be blanked, gauge pins projecting from the said plate along the outline of said opening to assist the said opening in locating the said stock, and a die-holding member connected to the said plate so as to be movable toward and away from the said opening.

1,696,443. WALL CONSTRUCTION FOR BATHROOMS. FREDERICK H. MICHAELIS, Kansas City, Mo. Filed June 6, 1927. Serial No. 196,753. 12 Claims. (Cl. 72—17.)



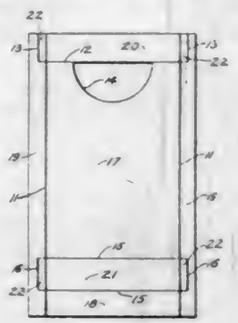
1. In a room wall, an upright plate member secured to the floor construction and spaced from the wall construction, and provided at its upper edge with an arm extending outwardly and secured to the wall construction and provided with a plurality of openings, a plate superimposed on the first-named plate and spaced from the wall construction and provided at its lower edge with an outwardly-projecting arm fitting flatwise on and interlocked with the outwardly-projecting arm of the first-named plate and provided with openings registering with the openings of said arm of the latter; said superimposed plate having at its upper end, an outwardly-projecting arm fastened to the wall construction and provided with one or more openings through which cementitious material may be introduced to fill the spaces between the wall construction and said plates and the openings in the arms of the latter.

1,696,444. HOLDER FOR SOCKET-WRENCH SETS. EDWIN S. MILLER and FOSTER A. HAIST, Buffalo, N. Y., assignors to The Keystone Mfg. Co., a Corporation of New York. Filed June 27, 1925. Serial No. 39,998. 1 Claim. (Cl. 220—56.)



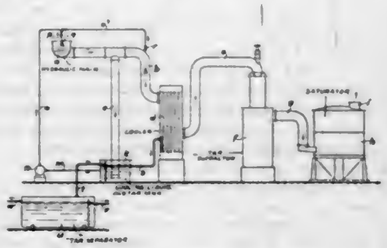
A container comprising a receptacle provided on its front end wall with a horizontal resilient locking lug which is struck out of the material of said end wall and has a downwardly turned outer end; a cover pivotally connected at its rear end with the corresponding end of the receptacle; and a vertically swinging locking bail pivoted on the front end of the cover and adapted to be sprung over the downwardly turned outer end of said lug and engage with the underside of the latter.

1,696,445. WRAPPER. HARRY G. NORWOOD, Baltimore, Md., assignor to American Dairy Supply Company, Washington, D. C., a Corporation of Maine. Filed Aug. 11, 1926. Serial No. 128,686. 5 Claims. (Cl. 229—87.)



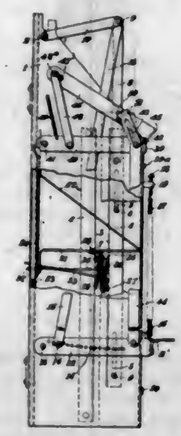
1. A blank for apparel wrappers comprising a sheet of stiff material having parallel fold lines one adjacent each of two opposite margins of the sheet, strap defining slits extending across said sheet approximately perpendicular to said fold lines and terminating between the fold lines and the adjacent margins of the sheet, and shorter fold lines parallel with the first named fold lines and defining the ends of the straps at the terminations of said slits.

1,696,446. PROCESS FOR DIRECTLY PRODUCING AMMONIA. CARL OTTO, Essen-Ruhr, Germany. Filed Aug. 15, 1927, Serial No. 212,954, and in Germany Aug. 9, 1926. 2 Claims. (Cl. 23—196.)



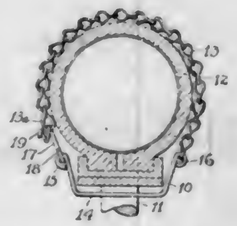
1. The steps in the described process for treating the distillation gases of coal gas producing furnaces for directly producing ammonia, which consist in feeding the distillation gases to a gas cooler, cooling them in the gas cooler so as to obtain a quantity of fresh condensate, feeding one part of the condensate to the hydraulic main, thus replacing the portion of the liquid evaporated therein, feeding another part of the condensate to the pipe leading to the cooler, so as to irrigate the gases, and returning the condensate to the cooler with a fresh supply of gas.

1,696,447. DELIVERY APPARATUS. CHARLES J. PAULSON, Brooklyn, N. Y. Filed Sept. 3, 1926. Serial No. 133,475. 15 Claims. (Cl. 312—70.)



1. Delivery mechanism comprising containing means for a stack of articles, a vertically movable carriage for said stack, said carriage having a forwardly downward inclined top for the unconfined support of said stack and the gravity delivery of articles therefrom, forward guard means to restrain the topmost article, and means for moving said guard means to release said topmost article.

1,696,448. ANTISKID CHAIN. PHILIP H. PFEIL, Chicago Heights, Ill. Filed Mar. 8, 1927. Serial No. 173,643. 2 Claims. (Cl. 24—237.)

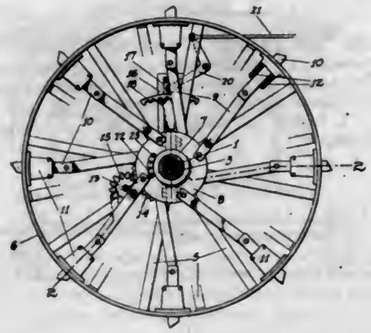


1. A fastening device for anti-skid chains of the type consisting of a single series of links consisting of a bar for attachment with one end of said chain and having an open helical formation of substantially one and one-half turns for removable engagement with the other end of said chain.

1,696,449. ADJUSTABLE GROUSER WHEEL. JOSEPH PHILLIPS, Guadalupe, Calif. Filed Mar. 26, 1927. Serial No. 178,584. 2 Claims. (Cl. 301—46.)

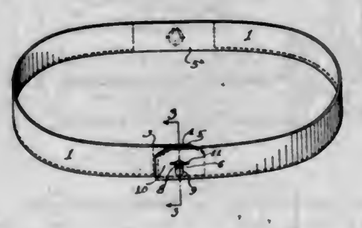
2. In combination with a wheel, grousers disposed radially of the wheel and arranged to project through the rim thereof, a sleeve member turnable on the hub of the wheel, links pivoted onto the sleeve and onto the inner ends of the grousers, a pinion mounted in connection with the hub, gear teeth on the sleeve member meshing with the pinion, another pinion mounted in connection with said first named pinion, radially spaced gear elements, mounted





separate from but concentric with the wheel for alternate engagement with said other pinion on opposite sides thereof, and means operable at will for shifting said gears radially to place either one in the path of the teeth of said other pinion with the rotation of the wheel.

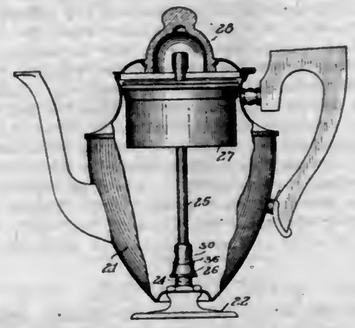
1,696,450. COLLAR BAND. HOWARD W. POTTS, San Francisco, Calif. Filed May 31, 1927. Serial No. 195,213. 1 Claim. (Cl. 2—127.)



A collar band provided at one of its ends with a plurality of separate flaps overlying one another, the forward flap provided with a button hole, said flaps secured together at their ends and along their top edge forming a pocket open along its bottom edge, a rubber collar button positioned within the pocket and provided with a head and shank projecting outwardly through the button hole, the other end of said band provided with a button hole for receiving the head and shank of said button for detachably securing the ends of said collar band together, said button provided with a rubber base provided with a plurality of apertures, stitching securing the base of the button to the forward face of the rear flap through said apertures, said open bottom edge of the pocket affording means for inverting the pocket for the securing of the button base to the rear flap.

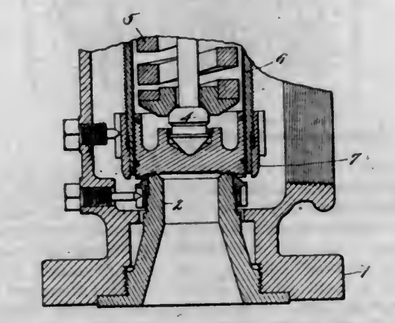
1,696,451. PERCOLATOR. WILLIAM A. RANKIN, Rochester, N. Y., assignor to Robeson-Rochester Corporation, Rochester, N. Y., a Corporation of New York. Filed Jan. 20, 1928. Serial No. 248,078. 4 Claims. (Cl. 53—3.)

1. In a percolator having a liquid reservoir, a liquid heating chamber, and a fountain tube communicating with said chamber, the combination with an inlet opening in the side wall of said fountain tube, of a supporting member extending inwardly from said side wall, and a valve mounted within said fountain tube opposite said inlet opening, said valve having an oblique cam surface in contact with said supporting member, said cam surface being so shaped that



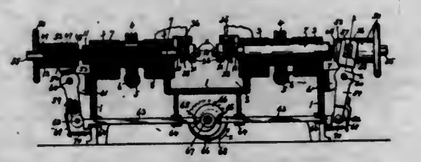
said valve is normally held by gravity in position to close said inlet opening and is capable of being moved by fluid pressure to a position in which said inlet opening is open.

1,696,452. VALVE. FAIRFIELD E. RAYMOND, Boston, Mass., assignor to Crosby Steam Gage and Valve Co., Boston, Mass., a Corporation of Massachusetts. Filed July 21, 1923, Serial No. 652,931. Renewed June 15, 1928. 2 Claims. (Cl. 137—53.)



1. In a valve of the character described, a throat tube terminating in a seat, a movable valve disc cooperating with the seat and providing a nozzle in conjunction with the seat, a blow-down ring adjustably connected to the throat tube, a deflector sleeve cooperating with the disc to cause a progressively increasing reactive force to be exerted on the face of the disc during the separation of the disc from the seat, and means for supporting the deflector sleeve having provision for adjustment while retaining the sleeve normally stationary during the opening movements of the disc.

1,696,453. APPARATUS FOR MACHINING RADIATORS AND THE LIKE. JAMES REID, Syracuse, N. Y.; Emma F. Reid and Charles T. Reid administrators of said James Reid, deceased. Filed May 1, 1926. Serial No. 106,007. 2 Claims. (Cl. 10—128.)

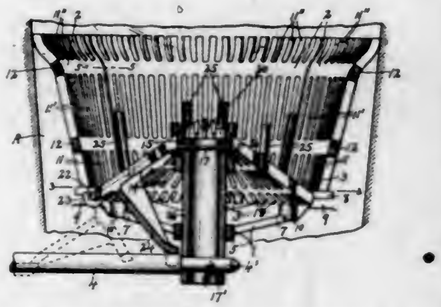


1. In a device for machining radiators and the like, a rotary and axially movable tool holder, tapping members

slidable transversely of and upon the tool holder, a boring tool secured to the tool holder at one end of the tapping members, a facing tool mounted on the tool holder at the other end of the tapping members, a tapered member slidable lengthwise of and between the tapping members for moving the same outwardly when the tapered member is moved in one direction and for permitting inward movement of the tapping members when the tapered member is moved in the opposite direction, a collar reciprocally movable lengthwise of and upon the tool holder, means for transmitting reciprocal motion from the collar to the tapered member, means for stopping the axial movement of the collar as the tool holder is moved into the work to cause the tool holder to move the tapping members away from the tapered member, and automatic means for stopping the axial movement of the collar in the opposite direction as the tool holder is withdrawn from the work.

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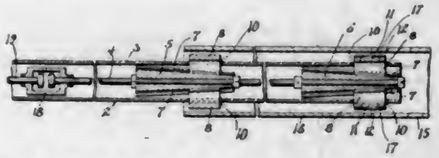
1,696,454. HEATER. WILLIAM W. RIDGELY, Syracuse, N. Y., assignor, by mesne assignments, to Ridgely Heater Company, Scranton, Pa., a Corporation of New Jersey. Filed Sept. 12, 1925. Serial No. 56,038. 4 Claims. (Cl. 126—146.)



4. In a heater, a grate-supporting base having a central hub and a series of sockets arranged in uniformly spaced relation circumferentially around the hub and equal distances from the axis thereof, a firebox composed of sections arranged edge to edge circumferentially around the hub with the meeting edges in vertical alinement with said sockets and provided with pendant lugs seated in adjacent sockets, a tubular post journaled in said hub for angular movement and extended some distance above and below the horizontal plane of the socketed portions of said base, a conical center grate having its apex secured to the upper end of the post and engaged with the upper end of the hub and its outer marginal edge disposed in approximately the horizontal plane of the socketed portions of the base, and means operatively connected to the lower end of the post for effecting angular movement of the post and center grate.

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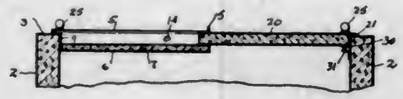
1,696,455. CIRCULAR-SEAM-WELDING APPARATUS. WILLIAM E. RUPLEY, Los Angeles, Calif., assignor to Western Pipe & Steel Company of California, San Francisco, Calif., a Corporation of California. Filed Apr. 18, 1925. Serial No. 22,833. 2 Claims. (Cl. 219—17.)



1. In an apparatus of the class described, the combination of a mandrel including a rod, a casing surrounding the rod, a tapered mandrel head secured to the said rod, a plurality of expanding members dove-tailed to said head and extending through slots formed in the outer casing, means for moving the said rod longitudinally in the said casing so as to move the mandrel head relative to the said expanding members, and means operably connected with the outer casing for rotating the said mandrel.

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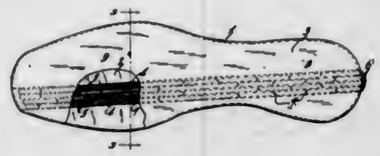
1,696,456. TELESCOPING CABINET COVER. JAMES A. SEBRING, Cleveland, Ohio, assignor, by mesne assignments, to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 3, 1925. Serial No. 6,537. 3 Claims. (Cl. 220—38.)



1. In a sliding top for cabinets, the combination of a half cover provided with an insulated box at the bottom, the sides of said cover being extended upwardly from said box and then outwardly and upwardly to form a flanged pocket above said box, a top for said half cover rigidly secured to said sides, and a second half cover comprising an insulated box slightly narrower than said first half cover and provided near its top with laterally projecting flanges, said second half cover being adapted to telescope into said first half cover with its flanges in the pocket flanges, said two half covers being adapted in their extended position to have their flanges rest on the cabinet top and overlap the compartment opening on every side so as to completely close the compartment.

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1,696,457. VENTILATING MEANS FOR BOOTS AND SHOES. MICHAEL A. SHANAHAN, Libby, Mont. Filed Mar. 15, 1928. Serial No. 261,766. 1 Claim. (Cl. 36—3.)



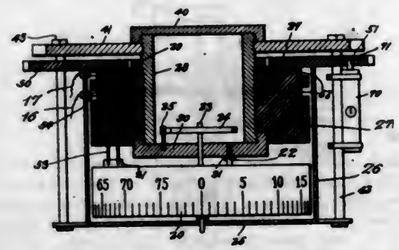
In a ventilating device for boots or shoes, an insole comprising an inner body, an outside casing therefor, said body being formed of two elongated portions disposed side by side in parallel spaced relation within the said outer casing and thereby forming a longitudinal channel, and a plurality of elongated elastic air tubes positioned within the said channel between the said spaced body portions, the said tubes being of a diameter somewhat greater than the thickness of the body portion so as to slightly elevate the upper side of the said casing along its medial longitudinal portion, while the marginal portions of the said upper side of the casing remain in contact with the said body portion.

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1,696,458. SPEEDOMETER-ACTUATED CIRCUIT CLOSER. JULIUS C. SOSNOWSKI, Long Beach, Calif. Filed Sept. 8, 1926. Serial No. 134,232. 2 Claims. (Cl. 200—56.)

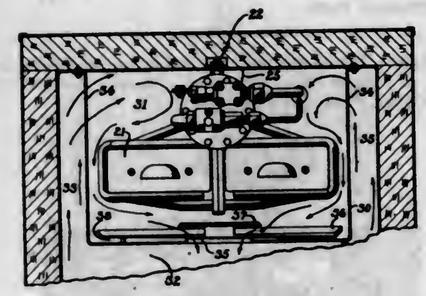
1. The combination of a speedometer having a movable part and conductive means thereon, an adjustable dial having terminals adapted to be directly connected electrically by said conductive means when a predetermined speed is attained, and means for locking said dial in different positions; the said means comprising a flange on the dial and a circular series of apertures in said flange, and a fixed lock having a key controlled bolt movable into and out of engagement with the apertured flange.





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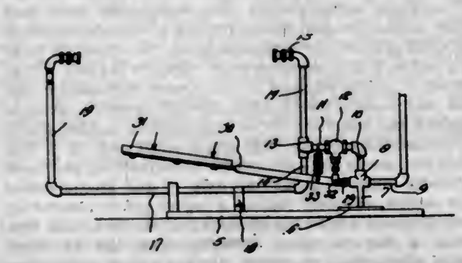
1,696,459. REFRIGERATING APPARATUS. OTTO M. SUMMERS, Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation, a Corporation of Delaware. Filed Oct. 31, 1927. Serial No. 229,901. 7 Claims. (Cl. 62—95.)



1. A refrigerating element for refrigerating apparatus including a horizontal header forming a reservoir for liquid refrigerant, conduit means for circulating refrigerant connected to the header and including a pair of spaced substantially horizontal coils extending laterally from the header, and a compartment for an ice-making container disposed between the coils and thermally connected to both of the coils.

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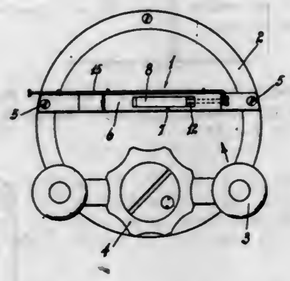
1,696,460. POULTRY-SPRAYING DEVICE. PETER TEYEN and ALFRED TEYEN, Pomeroy, Iowa. Filed May 10, 1927. Serial No. 190,212. 1 Claim. (Cl. 119—159.)



In a poultry spraying device of the character described, a U-shaped fluid conductor disposed in a vertical plane inwardly directed elbow couplings on the extremities of the U-shaped conductor, spray nozzles engaged in the elbow couplings to face each other, a pipe extending from one leg of the U-shaped conductor laterally of its plane, a second pipe coupled with the first pipe extending at right angles thereto and at right angles to the legs of the U-shaped conductor and away from said conductor, a valve in the second pipe, a vertical pipe depending downwardly from the second pipe, means for pivotally mounting a lever on the third pipe, a valve in the second pipe operatively connected with an intermediate portion of the lever, a spring attached to the second pipe and engaged with the lever to normally hold the valve closed, and a platform on the outer end of the lever extending through and laterally of the plane of the U-shaped conductor.

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1,696,461. DRAG-HANDLE CATCH. JOSEPH B. TUCKER, Long Beach, Calif. Filed Aug. 24, 1927. Serial No. 215,065. 6 Claims. (Cl. 242—84.5.)



1. In a fishing reel having a drag handle thereon, a catch for the drag handle comprising a bar adapted to be secured to the reel, a dog pivotally mounted on the bar, and spring means urging the dog upwardly in position to engage the drag handle.

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1,696,462. SPORTING IMPLEMENT. JOHN H. VICTOR, Chicago, Ill. Filed Sept. 9, 1927. Serial No. 218,475. 1 Claim. (Cl. 273—80.



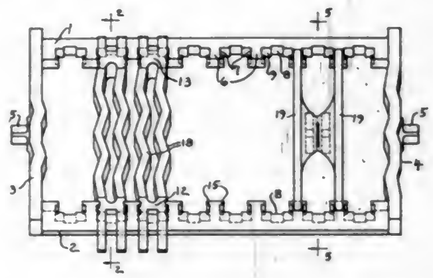
The combination with a handle of a sporting implement having a socket in the end thereof, of a weight having a stem fitting said socket and formed with a shoulder adapted to overlie the end of the implement, a bayonet joint connecting said stem and socket, and a resilient element between the shoulder and end of the implement holding the bayonet joint against displacement.

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1,696,463. SHAKING, ROCKING, AND DUMPING GRATE. CALVIN R. WAID, Birmingham, Ala. Filed Oct. 23, 1925. Serial No. 64,291. 2 Claims. (Cl. 126—180.)

1. A grate unit comprising an assembly frame having end trunnions and spaced side walls, opposed shoulders pro-

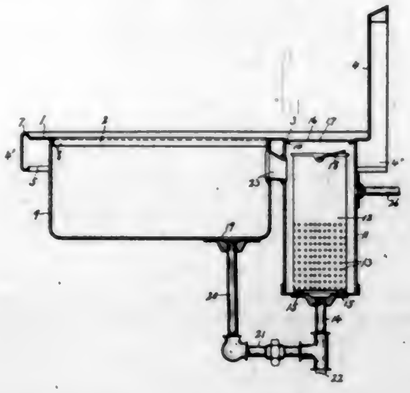
vided on the inner side of said side walls, grate segments adapted to interfit with said shoulders and to span the frame, and a rocking arm having its top side portions



notched and adapted to be received between the shoulders and by lateral movement to engage an opposite pair of shoulders in its notches.

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1,696,464. CULINARY FIXTURE. WILLARD R. WALKER, Syracuse, N. Y. Filed Oct. 31, 1927. Serial No. 229,989. 1 Claim. (Cl. 4—187.)

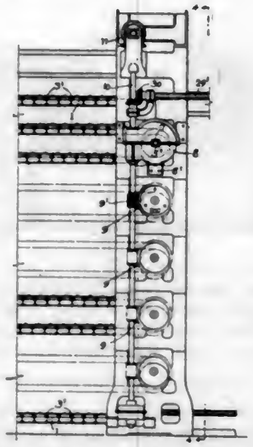


A culinary fixture comprising a shelf having a relatively large opening and a smaller opening at the rear of the larger opening, a sink secured to the underside of the shelf around the larger opening, a housing secured to the underside of the shelf around the smaller opening for receiving a refuse receptacle and provided with a drainage outlet in its bottom, and a vent opening in one side some distance above the bottom, and an overflow conduit connecting adjacent sides of the sink and housing.

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1,696,465. MEANS FOR DRIVING ENDLESS CONVEYERS. EARL P. WEBSTER, Niagara Falls, N. Y., assignor to The Shredded Wheat Company, Niagara Falls, N. Y., a Corporation of New York. Filed Oct. 18, 1923. Serial No. 669,394. 2 Claims. (Cl. 198—203.)

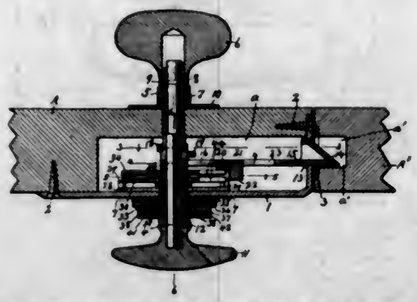
1. In conveying apparatus, the combination of a plurality of horizontal shafts disposed in a vertical row, each shaft carrying a sprocket wheel near each end thereof, a fixed bearing for each end of each shaft, a vertical drive shaft disposed adjacent the said row and provided with a driving connection with each shaft in the row, a second vertical row of horizontal shafts at a distance from the first row, each shaft in this row carrying a sprocket wheel near each end thereof, a bearing block at each end of each shaft in the second row mounted to slide horizontally, springs holding the bearing blocks in position, a self-aligning bearing for the end of the shaft mounted in each



bearing block, and an endless conveyer comprising a pair of chains, this conveyer passing around the sprocket wheels in the two rows successively to provide a plurality of horizontal loops.

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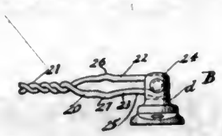
1,696,466. DOOR LOCK. JAY M. WESTCOTT, Syracuse, N. Y. Filed June 30, 1927. Serial No. 202,601. 2 Claims. (Cl. 70—53.)



1. The combination with a door having a lock-receiving recess and a casing having a keeper for the lock, of relatively rotatable coaxial shaft sections extending through registering openings in the door and across the recess therein and telescoping with each other within the recess, said shaft sections having their outer ends provided with handles for rotating the same, a bolt mounted on the door and movable into and out of engagement with the keeper and normally spring-pressed into engagement with said keeper, means actuated by the turning movement of one of said shaft sections for withdrawing the bolt from its locking position, a bolt-operating plate adjacent the bolt within said recess, means actuated by the turning movement of the other shaft section for actuating the bolt-operating plate to withdraw the bolt from its locking position independently of the operation of the first-named shaft section, a disk within said recess and adjacent the bolt-operating plate and adjustable rotarily about the axis of the second-named shaft section relatively thereto, a lug on the bolt-operating plate extending across the periphery of the disk, said disk having a slot extending inwardly from the periphery thereof and movable therewith into and out of registration with said lug for controlling the operation of the bolt-operating plate and preventing the turning movement of the second-named shaft section when the slot is out of registration with the lug.



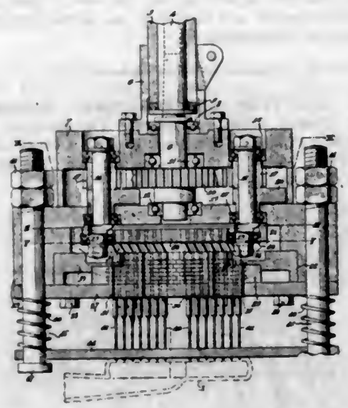
1,696,467. FASTENER. ALBERT BROMLEY ALLEN, Santa Monica, Calif. Filed June 30, 1927. Serial No. 202,489. 3 Claims. (Cl. 24—201.)



1. In a fastener for curtains and the like, comprising an eyelet adapted to be secured to the curtain and means secured to a further member for cooperation with said eyelet, said means comprising a stud, and a lever secured to said stud and slidable relative thereto; said lever being adapted to be passed through the eyelet for directing the eyelet on to said stud.

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1,696,468. MULTIPLE-SPINDLE DRILL HEAD. JOSEPH F. BUHR, Detroit, Mich. Filed Oct. 6, 1924. Serial No. 741,820. 1 Claim. (Cl. 77—23.)

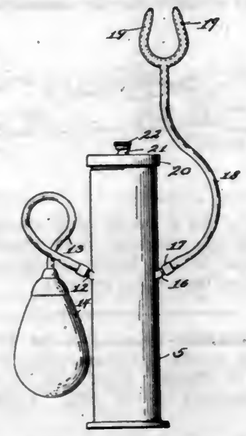


In a multiple drill head, a drive spindle, a casing, a holder attached to said casing, a counterbalanced crank shaft driven by said spindle and having its end journaled in said holder with the counterbalance of said shaft operatable in said casing, crank shafts journaled in said holder, drills connected to said crank shafts, a gyratory member about said crank shaft below the counterbalance portion thereof and bearing against said casing, said gyratory member being operatively connected to said crank shafts for individually rotating said crank shafts, crank members supported from said holder and supporting said gyratory member against said casing, and means carried by said gyratory member within said casing adapted for imparting a gyratory movement to said gyratory member from said crank shaft, said holder being composed of a plurality of sector parts assembled with the confronting faces thereof providing bearings for the drill crank shafts.

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1,696,469. POWDERED-MEDICAMENT DISPENSER FOR LUNG TREATMENT. DAVID NEWTON E. CAMPBELL, Atlantic City, N. J. Filed July 26, 1927. Serial No. 208,631. 6 Claims. (Cl. 128—266.)

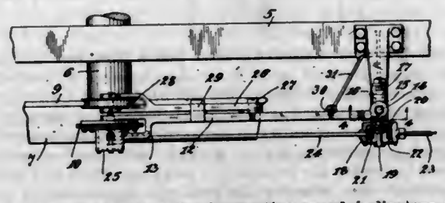
1. A powdered medicament dispenser, including a casing having a chamber divided by a perforated powder-sifting diaphragm into superposed air receiving and powder receiving compartments, and means for directing air diametrically through the lower compartment and exhausting it at a diametrically opposite point, the passage of the



air into and through the compartment producing a suction and a thorough commingling of the amorphous powder with the air.

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1,696,470. OPERATING MEANS FOR SPEED INDICATORS OR RECORDERS FOR LOCOMOTIVES. VIRGINIUS Z. CARACRISTI, Bronxville, N. Y. Filed June 11, 1924. Serial No. 719,315. 12 Claims. (Cl. 74—7.)



1. Operating means for locomotive speed indicators including a revolution transmitting wheel frictionally engaged with the tread face of a traction wheel, a longitudinally extending support in which said friction wheel is mounted, means sustaining said support at one of its ends for movement about vertical and horizontal axes, means for preventing shifting movement of said friction wheel upon the tread face axially thereof, and means for transmitting rotation of said friction wheel to a speed indicating instrument.

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1,696,471. PROCESS OF TREATING ORES WITH CHLORIDE SOLUTIONS. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed May 25, 1926. Serial No. 111,664. 9 Claims. (Cl. 75—18.)

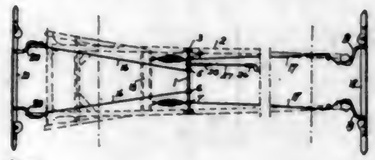
1. In the treatment of ores with acid chloride solutions, precipitating dissolved metal therefrom by means of a calcium compound so as to leave in said solutions as $CaCl_2$ the chlorine combined with said metals before precipitation and thereafter mixing said solution containing said $CaCl_2$ with comminuted ore and adding $H_2SO_4$ to said mixture to precipitate the calcium from said solution as $CaSO_4$ and to form HCl in said solution and thereby dissolving metals out of said ore in said solution.

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1,696,472. SHOCK ARRESTER. EMILE CONTI, Alfortville, France. Filed Feb. 10, 1928, Serial No. 253,472, and in France Nov. 29, 1927. 10 Claims. (Cl. 293—55.)

1. In a motor vehicle having a chassis and a buffer bar pivotally mounted on one end of said chassis, the combi-

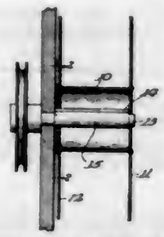
nation of a plurality of levers carried by said chassis, a plurality of cables interconnecting certain of said levers and said buffer bar, shock absorbing means responsive to a slight movement of said buffer bar cooperating with cer-




tain of said levers and a second shock absorbing means responsive to said first mentioned shock absorbing means when the movement of said buffer bar exceeds a predetermined amount for the purpose set forth.

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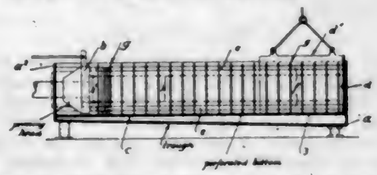
1,696,473. FILM REEL. HERMAN A. DE VRY, Chicago, Ill., assignor to The De Vry Corporation, Chicago, Ill., a Corporation of Illinois. Filed Sept. 3, 1925, Serial No. 54,186. Renewed May 6, 1927. 2 Claims. (Cl. 242—70.)



1. A film reel comprising sides and a hub, one of the sides being provided with a circular opening to receive the reduced end of a shaft, and the other with a circular opening to fit around a cylindrical shaft of a predetermined size and a plurality of outwardly extending notches adapted to receive a key on a shaft, said notches being formed to receive the corners of a polygonal shaft of a predetermined size, whereby the reel will be adapted to be driven by a cylindrical shaft with a key thereon or a polygonal shaft.

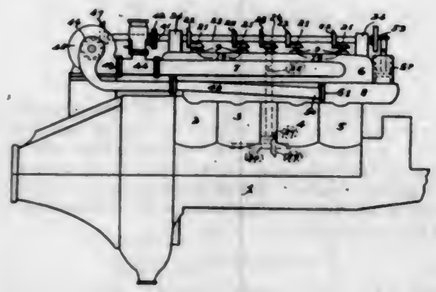
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1,696,474. PRESS FOR TREATING BOARDS OF ALKALINE CELLULOSE AND THE LIKE. WILHELM DÜTSMANN, Neustadt, Germany. Filed Nov. 13, 1925, Serial No. 68,907, and in Germany Feb. 23, 1925. Renewed Oct. 11, 1928. 5 Claims. (Cl. 100—50.)



1. Horizontal press for treating articles in alkali solutions and acids having corrosive properties, more especially boards of alkali cellulose for the manufacture of artificial silk, comprising in combination with a horizontal press cylinder, piston rod and pressing head, a steeping trough receiving the pressing head and piston-rod, a perforated partitioning bottom within the trough, a collecting chest having its perforated bottom flush with the said partitioning bottom, metal sheets arranged within the trough and the said chest being open at the top and front end and adapted to receive all the metal sheets together with the boards when compressed, guiding ledges for the metal sheets and means for removing the collecting chest from the trough.

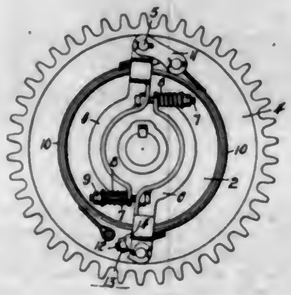
1,696,475. INTERNAL-COMBUSTION ENGINE. HENRY L. ELLIOTT and ROBERT A. CARROLL, Claysville, Pa. Filed Dec. 22, 1926. Serial No. 156,381. 5 Claims. (Cl. 123—23.)



1. In an internal combustion engine using a dust fuel mixture, means for animating the dust fuel charge in the combustion chamber of the engine, means for carbureting the dust fuel charge, and auxiliary means for exhausting the products of combustion.

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1,696,476. FRICTION DRIVE MEANS. CHARLES L. GEORGE, Findlay, Ohio, assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio, a Corporation of Ohio. Filed May 19, 1927. Serial No. 192,508. 5 Claims. (Cl. 64—99.)



1. In a device of the class described, a drive member and a driven member, one constituting a friction drum, a plurality of friction bands engaging the friction drum and anchored to the other of said members to turn therewith, means connecting said bands including members connected to the free ends of the friction bands and extending from opposite sides substantially diametrically across said friction drum in lapping relation, and a yieldable connection between the inner end portion of each member and adjacent member, thereby to equalize the pressure of the bands on the drum.

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1,696,477. CYLINDER HONE. ERNEST A. HALL and GERALD J. LINDROTH, Toledo, Ohio, assignors to The Hall Manufacturing Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 25, 1926. Serial No. 97,240. 17 Claims. (Cl. 51—206.)

1. In a tool of the class described, a rotatable body, an elongate abrading member carried by the body for outward



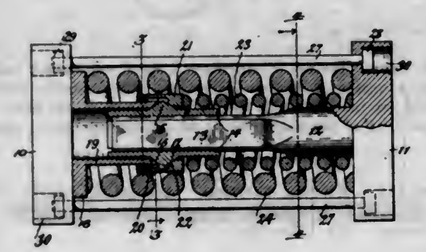
movements relative to its axis, and drive means movable lengthwise of the body and abrading member and having a fixed portion receiving the inward thrust of the abrading



member and, when moved in one direction lengthwise of the abrading member, causing an outward positive adjustment thereof.

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1,696,478. SHOCK ABSORBER. JOSEPH M. HALL, Hamilton, Ontario, Canada. Filed June 5, 1925. Serial No. 35,099. 9 Claims. (Cl. 213—36.)



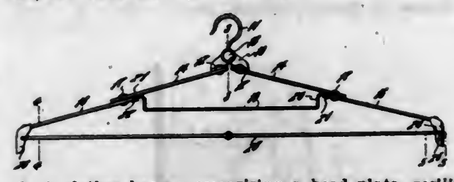
1. A shock absorber comprising two relatively movable followers, a longitudinal friction post movable with one of said followers and projecting toward the other follower and having longitudinal friction surfaces, friction shoes engaging said friction surfaces, a wedge collar having backward wedging engagement with said shoes, a thrust member moving with the other follower and having forward wedging engagement with said shoes, a wedge spring surrounding said post and bearing at its opposite ends against said wedge collar and the follower which carries said post, a thrust spring surrounding said wedge spring and operating to move said thrust member and the follower with which it engages in one direction, and said follower which carries said post in the opposite direction, and means for causing said wedge collar to move backwardly with that follower toward which said post projects.

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1,696,479. MANUFACTURE OF ACETALDEHYDE. CARL NELSON HAND, Nitro, W. Va., assignor to The Rubber Service Laboratories Co., Akron, Ohio, a Corporation of Ohio. Filed Apr. 12, 1926. Serial No. 101,563. 10 Claims. (Cl. 260—139.)

1. A process of separating acetaldehyde from a mixture of acetaldehyde and acetylene which comprises passing the said mixture through an aromatic organic compound that will chemically combine with the acetaldehyde present in the said mixture.

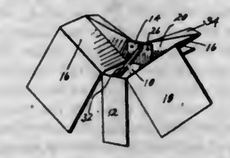
1,696,480. CLOTHES HANGER. NANNIE E. HAWKINS, Cincinnati, Ohio. Filed July 17, 1925. Serial No. 44,203. 2 Claims. (Cl. 223—68.)



1. A clothes hanger comprising a head plate, resilient arms connected with the head plate and composed of pivotally connected elements, and supplemental garment supporting elements having detachable connections with the arms at the terminals and at the pivotal joints and relying on the resiliency of the arms to maintain them in connected positions.

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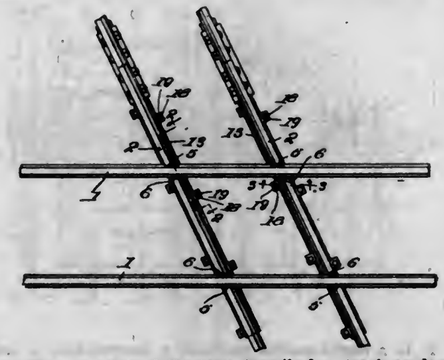
1,696,481. DRAIN-DITCH CHECK DEVICE. HJALMER B. HELSING, Moberly, Mo. Filed Oct. 12, 1927. Serial No. 225,695. 4 Claims. (Cl. 61—29.)



1. A device of the class described comprising a bottom, sides extending therefrom, a front wall comprising a central portion extending up from said bottom and side portions extending up from said sides, said side portions being bent to make the center portion lower than the outer ends of the side portions and a splash board secured to said device.

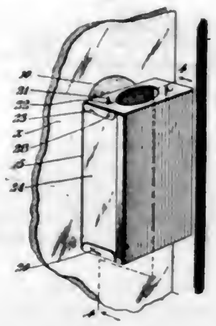
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1,696,482. RAIL CROSSING. WILLIAM R. HESSKEW and JOSEPH J. NULTY, San Antonio, Tex. Filed Jan. 3, 1928. Serial No. 244,273. 2 Claims. (Cl. 246—457.)



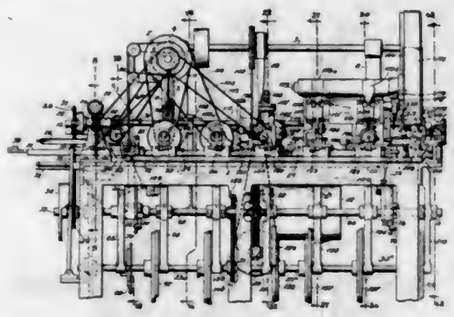
1. In a crossing of the type described, a track made up of T-rails and a track made up of channel rails which crosses the T-rails, said channel rails above the base flanges thereof having openings which correspond in shape to the cross sectional contour of the T-rails and which receive the said T-rails therethrough to arrange the treads of the T-rails in a line or approximately in a line with the inner walls of the grooves of the channel rails, said channel rails having their heads notched transversely at points along the sides of the opening, and one of the notches being deeper and of a greater width than the other notch, plates on which the base flanges of the T-rails rest, said plates having their edges flanged outwardly and inwardly to engage with the base flanges of the said channel rails and to likewise afford a support for the base flanges of the T-rails and securing means for said plates.

1,696,483. METAL BOX. WILLIAM C. HIERING, Newark, N. J., assignor to J. E. Mergott Co., Newark, N. J., a Corporation of Delaware. Filed Oct. 3, 1925. Serial No. 60,198. 1 Claim. (Cl. 224—29.)



An oblong rectangular box composed of sheet metal open at the top, a support plate at the rear, said plate having upper and lower forwardly extending elements to engage the top and bottom of the box, the upper element containing an ovoidal opening leading to the interior of the box and the lower element having an out-turned edge and being provided with a depression, a node on the bottom wall of said box to resiliently engage in the mentioned depression, flanges on both of said plate elements to embrace the sides of said box, the flanges on said upper elements having perforations, and corresponding projections on the side walls of said box to engage in the perforations of said flanges.

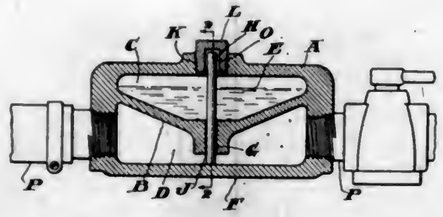
1,696,484. NEEDLE-MAKING MACHINE. ALFRED HOFMANN, Fort Lee, and OSWIN KANIS, Union City, N. J., assignors to Alfred Hofmann Needle Works, Inc., Union City, N. J., a Corporation of New Jersey. Filed Nov. 12, 1927. Serial No. 232,794. 35 Claims. (Cl. 163—2).



2. In a needle-making machine, a machine-base, a series of operating units disposed longitudinally thereof, a carrier having reciprocatory movement longitudinally of the base and adapted to transfer a needle-blank to each of the units successively, and means to operate the units successively to cut a blank, round the butt-end thereof, swage the beard-end, trim to length, point and buff, bend the butt-end, punch a groove in the beard-end, flatten the shank, and form the beard.

1,696,485. AIR-LINE OILER. GIDEON IHRMARK, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 3, 1925. Serial No. 66,515. 3 Claims. (Cl. 184—55.)

1. An air line oiler comprising a casing, a wall dividing the casing into a pressure fluid passageway and an oil reservoir, said wall having a single passage for conveying pressure fluid from the passageway into the reservoir and oil from the reservoir into the passageway, and a plain cylindrical pin extending through the passage and the top



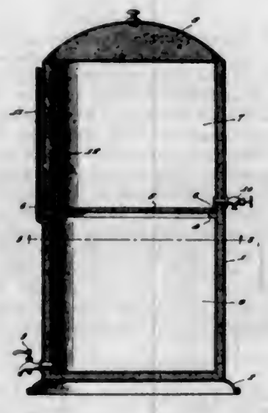
of the casing, said pin being supported by the wall of the passageway and actuated transversely of the passage by the pulsations occurring in the pressure fluid for delivering oil from the reservoir to the passageway.

1,696,486. DENTAL IMPLEMENT. WILLIAM JEFFREYS, East Orange, N. J. Filed Sept. 2, 1927. Serial No. 217,204. 1 Claim. (Cl. 128—231.)



A dental syringe comprising a soft vulcanized rubber bulb, a nozzle of similar material, a thin metallic tubular lining for the nozzle forming a passage from the bulb, the front face of the nozzle being of convex triangular shape.

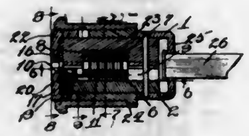
1,696,487. WATER FILTER. ALBERT E. JERVIS, Nappanee, Ind. Filed Jan. 3, 1928. Serial No. 244,256. 2 Claims. (Cl. 210—103.)



1. A filter comprising a reservoir divided by a filtering medium into an upper filtering compartment and into a lower compartment in which the filtered water is received, and means for introducing atmospheric air into the last mentioned compartment above the water level therein and for directing air from such compartment into the filtering compartment above the level of the water therein.



1,696,488. LOCK. JOHN JUNKUNC, Chicago, Ill. Filed Nov. 16, 1923. Serial No. 675,042. 1 Claim. (Cl. 70—16.)



In a lock, a key barrel comprising two semicylindrical sections, a cap fitting over the interior end of said sections, an outer cap fitting over the exterior end of said sections, said cap being slotted to receive a key therethrough for engaging tumblers within the barrel and rotating said sections, one of said sections having a rabbet and a central recess, a spring in the recess supported by the exterior cap, the other section having a registering rabbet so that the assembled barrel has a rabbet at one end, a key-hole guard nested in the rabbet having a depending lug extending into said central recess and having an inturned flange engaging said spring.

1,696,489. DISPLAY SIGN AND THE LIKE. HERBERT KAHN, St. Louis, Mo., assignor to Kahn Mirror Plate Company, St. Louis, Mo., a Corporation of Missouri. Filed May 23, 1927. Serial No. 193,517. 2 Claims. (Cl. 40—135.)

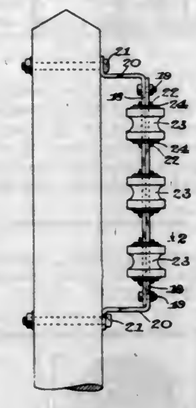


1. As a new article of manufacture, a display-sign including a rigid sheet-glass body-section, a display-member constructed of paper disposed flatwise directly upon a part of the rear face of the body-section, the body-section being of greater area than the display member, and a layer of reflecting material adhesively disposed upon and over the rear face of the display-member and upon and over that portion of the rear face of the body-section that surrounds the display-member, the display member being by the reflecting material fixed upon the body-section and being visible only when viewed from the front face of the body-member, the body-member surrounding the display-member having the characteristics of a mirror.

1,696,490. RESINOUS MATERIAL AND PROCESS OF MAKING SAME. PAUL KNAPP, Woodbury, N. J. Filed May 18, 1921, Serial No. 470,675. Renewed Feb. 18, 1926. 6 Claims. (Cl. 260—130.)

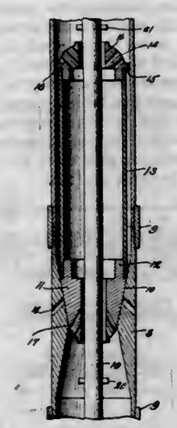
3. The process which comprises treating the distillate obtained in the distillation of substances containing pentoses and pentosans with mineral acids, with an amine in the presence of an acid, to form an insoluble resinous material, and separating such resinous material from the large volume of water in the distillate.

1,696,491. INSULATOR RACK. WILLIAM D. KYLE, Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a Corporation of Wisconsin. Filed Sept. 24, 1923. Serial No. 664,475. 3 Claims. (Cl. 173—321.)



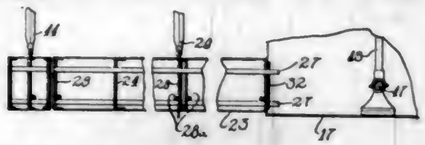
2. A secondary rack comprising a pair of relatively extensible complementary elements secured together in overlapping relation to form a U-shaped insulator-supporting member having spool insulators threaded on its transverse portion and insulator-retaining members passing through said overlapping complementary elements.

1,696,492. FLUID AND GAS TRAP. FRED A. LANGHERST, Wexford, Pa. Filed Jan. 23, 1928. Serial No. 248,857. 2 Claims. (Cl. 103—221.)



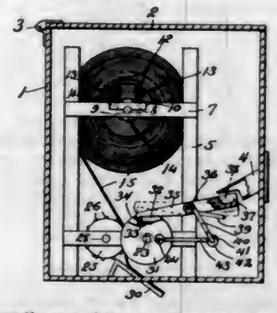
1. In combination with the well tubing and sucker rod of an oil well, a tubing section having an inclined valve seat formed interiorly thereof and having a plurality of openings extending to the valve seat, a relief valve including a vertically movable elongated member, the lower end of the relief valve having bores normally registering with the interior of the tubing in which the valve is positioned, means on the sucker rod for engaging the valve to move the valve from its seat, and means on the sucker rod for returning the valve to its seat.

1,696,493. AIRPLANE. WILLY LENERT, Chicago, Ill. Filed Mar. 27, 1926. Serial No. 97,823. 2 Claims. (Cl. 244—31.)



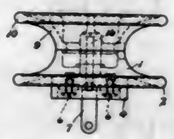
2. An airplane wing structure comprising flanged and apertured metal ribs, spaced tubular members forming front and rear spars and passing the aperture in said ribs, and transverse spacing members brazed to said tubes immediately adjacent the ribs, those spacing members adjacent the strut locations having projecting lugs for the attachment of said struts.

1,696,494. VENDING MACHINE. HENRY L. LOWRY, Morrill, Kans. Filed July 26, 1928. Serial No. 295,421. 3 Claims. (Cl. 194—26.)



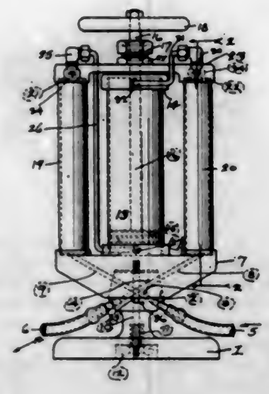
1. In a vending machine, a rotary member having a stop tooth, a pawl having means for engaging said tooth to hold said member from turning in one direction from an initial position, said pawl being automatically movable to said engaging position and having means for supporting a deposited coin and being movable by said coin from said engaging position to a position in which the coin will fall from said pawl, a lever movable to and from a position in which it will engage and hold said pawl from moving to the coin dropping position after the pawl has been released from said tooth, and means actuated by said rotary member, after the latter has been turned a predetermined distance from said initial position, for first swinging said lever from and then swinging it to said pawl holding position.

1,696,495. ELECTRIC APPLIANCE. MALTE J. MALLING, Grand Rapids, Mich. Filed July 11, 1927. Serial No. 204,818. 3 Claims. (Cl. 173—361.)



1. A device of the class described comprising, a body of suitable non-conducting material of substantially pulley-like shape, said body having a central longitudinal opening therethrough, a second opening extending from the outer side of the body substantially midway between its ends to connect with said central opening and a slot in one side and in the outer end portion of the body joining with said openings, a metallic contact member secured at the inner end of the ping with which an electric cord may have connection passing therefrom, through the central opening of said body, thence laterally through the second opening and thence wound around the body, its opposite end extending away from said body.

1,696,496. APPARATUS FOR SURGICAL USES. PERCY F. MCMURDO, San Francisco, Calif. Filed May 11, 1927. Serial No. 190,587. 10 Claims. (Cl. 128—214.)



1. An apparatus for surgical uses comprised of a base having a pair of independent passages therethrough; an intake member and a discharge member connected to each of said passages; a pair of independent fluid receptacles rotatably mounted on said base, each fluid receptacle being open to communication with either of the passages in the base; and means to create a less than atmospheric pressure of air in one receptacle to draw a charge of fluid through the intake member into the receptacle and to create an air pressure in the other receptacle to discharge fluid from said receptacle through the discharge member.

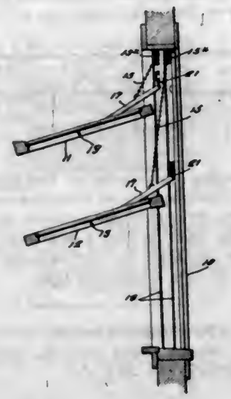
1,696,497. LUBRICATING GUN. CHARLES W. MANZEL, Buffalo, N. Y., assignor to Alemite Manufacturing Corporation, Chicago, Ill., a Corporation of Delaware. Filed Nov. 14, 1921. Serial No. 514,922. 9 Claims. (Cl. 221—47.4.)



7. A lubricating gun comprising a magazine for holding a quantity of lubricant, a cylinder communicating with said magazine, means for positively displacing lubricant from said magazine into said cylinder, means for expelling lubricant from said cylinder, means for making sealed contact with a lubricant receiving device, and a single handle for actuating said displacing means, said expelling means and said sealing means.

1,696,498. WINDOW. JOHN FREDERICK MASSEY, Chicago, Ill. Filed Sept. 22, 1926. Serial No. 137,030. 3 Claims. (Cl. 20—42.)

1. In combination, a frame having grooves in the inner sides of its side stiles, sashes, guides carried by the sashes and movable into and out of said grooves, means connected to said guides and carried by the sashes for the projections and retraction of said guides, movable latches carried by the side stiles of the frame, slidable and swingable hinge members pivotally connected to the sashes and apertured for detachable connection to said latches, pulleys carried by



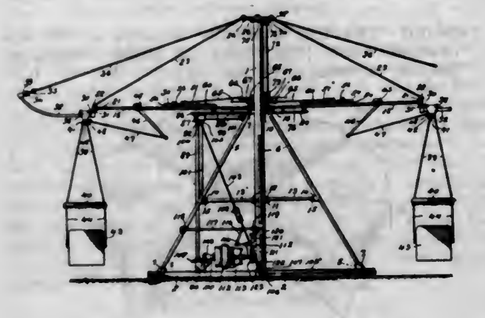
the side stiles of the frame, and cords for the support of the sashes connected to said hinge members and passed over said pulleys.



1,696,499. MONO-AMINO-DIPHTHALOYL ACRIDONES AND PROCESS OF PREPARING THE SAME. WALTER MIEG and ALBERT JOB, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y., a Corporation of Delaware. Filed May 23, 1927, Serial No. 193,721, and in Germany May 27, 1926. 4 Claims. (Cl. 260—37.)

1. As new vat dyestuffs mono amino diphthaloyl acridones obtainable by reducing the corresponding mono nitro diphthaloyl acridone, being in dry state dark blue powders and dyeing from a hydrosulfite vat greyish-blue shades, soluble in concentrated sulfuric acid with yellow to yellowish brown shades.

1,696,500. CARROUSEL. CHARLES E. MORRIS, Leavenworth, Kans. Filed July 26, 1926. Serial No. 124,935. 26 Claims. (Cl. 272—41.)

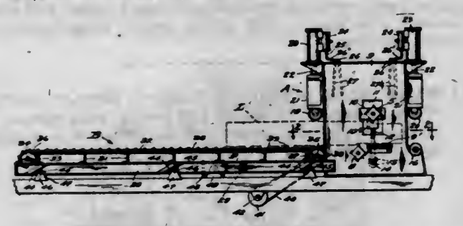


1. In a carrousel, a revolving support, supporting means therefor, a passenger carrying device movable outwardly by natural force on said support, and means connecting said device with said supporting means by which said device, during the revolutions of said support, is periodically forced inwardly and is then released and permitted to move freely outwardly.

1,696,501. DIELECTRIC SUBSTANCE AND PROCESS FOR MANUFACTURING SAME. ANDRÉ MOUILLEFARINE, Paris, France. Filed Feb. 18, 1927, Serial No. 169,420, and in France Feb. 18, 1926. 1 Claim. (Cl. 91—70.)

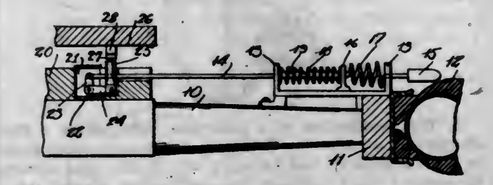
The herein described process of rendering wood dielectric, which consists first in dyeing the wood to resemble ebonite, comprising the step of immersing the wood in a liquid mass composed of basic black, acetic acid and sodium chloride for substantially twenty-four hours, the first four hours of which the mass is heated to 100° C. and for the remaining time the mass is permitted to cool, thereafter submitting the wood to a heat treatment, then to the action of an insulating mass consisting of bituminous shales which first opens up the pores of the wood by removing all conductive substances therefrom and then replaces the discharged conductive substances, the action taking place during a change in temperature of the mass from 150° C. to 300° C. or more, thereafter drying the impregnated wood and finally finishing its surface with shellac bearing varnish.

1,696,502. LOG-SIZING MECHANISM. THOMAS A. PETERSON, Onalaska, Wash. Filed June 9, 1926. Serial No. 114,615. 5 Claims. (Cl. 144—114.)



1. The combination with a planer having a cutter-head, of a vertically movable work supporting table, means rendered operative by horizontal movement of the table to effect vertical movement of the table, power actuated means to impart horizontal movement to the work supporting table for effecting vertical movement of said table with respect to the cutting circle of said cutter-head, and manually controlled devices for regulating said power actuated means.

1,696,503. TUBE AND TIRE SAVER. THOMAS P. ROTH, Louisville, Ky. Filed Apr. 6, 1926. Serial No. 100,135. 2 Claims. (Cl. 200—58.)



1. In a tire deflation signal, circuit closing means including a wheel having a pneumatic tire thereon, guides on said wheel alined radially with respect to the axis of the wheel, a rod extending through said guides and having ratchet teeth thereon facing toward the outer end of the rod and engageable with one of said guides upon the rod being moved inwardly, spring means normally holding said rod in outwardly protruded position, a plurality of fixed contacts adjacent one side of the wheel and projecting toward the wheel to terminate at graduated distances from the wheel, a movable contact carried by the wheel and projecting from one side thereof to move toward and from the side of the wheel and out of position to engage the fixed contacts independently and successively, and operative means connecting the rod and movable contact.

1,696,504. YIELDABLE BULB-SOCKET SUPPORT. JOHN M. PETTUS, Bell, Calif. Filed Nov. 3, 1927. Serial No. 230,786. 4 Claims. (Cl. 240—90.)



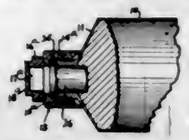
1. A yieldable support for a bulb socket, comprising two spaced disks having central openings through which to pass current-conducting wires, a yieldable sleeve between said disks having its ends disposed in contact therewith around said openings, and spring means between said disks around said sleeve, said spring means being connected with said disks.

1,696,505. SINK STRAINER. SIMON G. SETTLES, Seattle, Wash., assignor, by direct and mesne assignments, to Herbert W. Barden, Seattle, Wash. Filed Nov. 4, 1926. Serial No. 146,114. 6 Claims. (Cl. 4—291.)



1. A strainer adapted to be used in the drain opening of a sink and extends downwardly below the bottom of the sink, said strainer having a bail hingedly connected thereto, said bail serving as a carrier for the strainer and also as a latch for detachably securing the strainer to the sink.

1,696,506. CLOSURE FOR COLLAPSIBLE TUBES. ARTHUR E. SMITH, Los Angeles, Calif. Filed June 21, 1926. Serial No. 117,295. 7 Claims. (Cl. 221—60.)



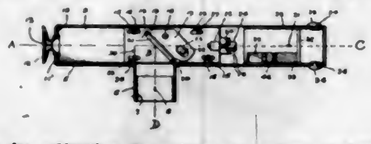
1. The combination of a collapsible tube having a discharge end, a closure for said end, said closure being made of flexible material and having a slit therein, said closure including a skirt engaging the end portion of said tube, the transverse section of said skirt being normally elliptical in shape.

1,696,507. FOAM-PRODUCING COMPOSITION. ERICH MAX ALFRED STHAMER, Hamburg, Germany. Filed Mar. 29, 1928, Serial No. 265,813, and in Germany Apr. 4, 1927. 2 Claims. (Cl. 23—11.)

1. Foam producing means consisting of a mixture of saponin and milk sugar.

1,696,508. HAND LEVEL AND ANGLING DEVICE. WALTER THORBURN, Seattle, Wash. Filed Jan. 9, 1928. Serial No. 245,395. 4 Claims. (Cl. 88—2.3.)

1. A combination level and angling device, with a view tube provided with a peep sight opening at one end, and cross wires at the other end, an offset tube opening from one side with a removable sleeve therein carrying a vertical wire; a horizontal mirror mounted above a plate the plate adjustably held on a slide, a slide frictionally held within and along the bottom of the first mentioned tube, bifurcated ends on the slide turned up to form a fulcrum,



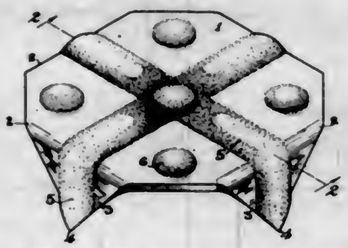
means for adjusting the mirror at various angles across the tubes, and a threaded lug on the outer end of the plate, a screw threaded into the lug, a collar on the screw at the inside of the fulcrum and a head on the outer side thereof, whereby the plate may be adjusted longitudinally on the slide in the first mentioned tube.

1,696,509. POTATO-PICKING BELT. RAYMOND B. TRESNER, Mabton, Wash. Filed Jan. 22, 1927. Serial No. 162,904. 2 Claims. (Cl. 224—5.)



2. A device of the character described comprising a belt, straps attached to the sides of the belt and depending therefrom, a cross bar detachably connected with the lower ends of said straps, said bar being extended beyond its point of connection with said straps with said extending portions being adapted to bear against the legs of the wearer directly above the knees, and hooks carried by the bar for supporting a sack.

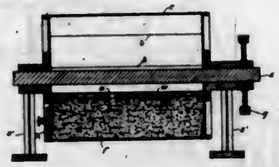
1,696,510. TRAFFIC MARKER. WILLIAM A. WALLACE, Oakland, Calif. Filed July 26, 1927. Serial No. 208,526. 1 Claim. (Cl. 94—1.5.)



A traffic marker comprising a top plate, a plurality of legs extending downwardly from the top plate, a plurality of outwardly pressed corrugations located in the top plate and the legs, each of which said corrugations commences at the end of one of the legs and extends upwardly along the said leg and across the top plate, which said corrugations when struck on the corrugations at a point where the legs and top plate meet swing the legs outwardly so the legs become embedded in a material.

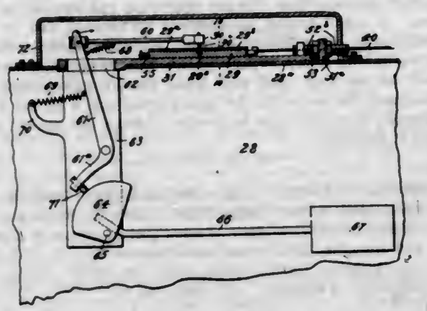


1,696,511. METHOD OF TREATING ARTIFICIAL FUELS. HERBERT E. WETHERBEE, Cleveland, Ohio, assignor of one-third to Richard F. Grant and one-third to Howard M. Hanna, Cleveland, Ohio. Filed Oct. 22, 1925. Serial No 64,125. 17 Claims. (Cl. 44—25.)



1. In a method for treating comminuted materials preliminary to briquetting the same, the step of subjecting the particles thereof while in moistened condition to the action of a moisture displacing filming oil binder, substantially as set forth.

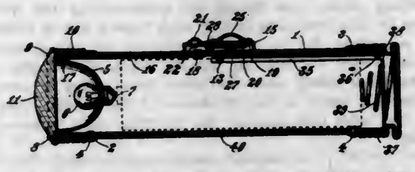
1,696,512. INDICATING MECHANISM. LOUIS A. WHITE, Brooklyn, N. Y. Filed Dec. 20, 1924. Serial No. 757,276. 10 Claims. (Cl. 177—351.)



7. The combination with a fuel tank of indicator mechanism including a float in the tank, an indicator device rotatable in opposite directions, a reversible rotary electric motor for operating the indicator device, and automatic switch mechanism for reversing and controlling the operation of the motor, said switch mechanism including cooperating relatively movable switch members, one of said switch members comprising a supporting base supported to slide rectilinearly and having separate contact plates thereon, said switch member being connected with the motor to be actuated thereby, and the other switch member comprising a brush movable longitudinally above said base and adapted to slidably engage said contact plates, and a connection between said brush and the float comprising a vertically swinging lever connected at one end to the float to be actuated thereby and having a cam at its other end, a second lever pivoted intermediate its ends, one end of said second lever engaging said cam, a horizontally disposed link member pivotally connected at one end to the other end of said second lever and carrying said brush at its free end, and resilient means for pressing the outer end of the link downwardly to maintain said brush in operative relation with the other switch member.

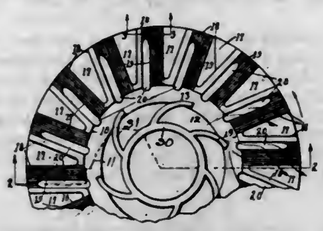
1,696,513. BATTERY HAND LAMP. ERNEST ALSCHULER, St. Louis, Mo., assignor, by direct and mesne assignments, of one-half to National Carbon Company, Inc., New York, N. Y., a Corporation of New York, and one-half to Henry Hyman, New York, N. Y. Filed Jan. 4, 1919, Serial No. 269,705. Renewed Feb. 7, 1928. 2 Claims. (Cl. 240—10.5)

1. In a battery hand lamp, the combination of a tubular casing, a battery therein, a metallic reflector at one end of the casing, a lamp mounted in the reflector with one terminal electrically connected thereto, and the other terminal connected to one terminal of the battery, a lens associated with the reflector, metallic fittings insulated from said reflector for holding said lens in place, circuit connections between the other terminal of the battery



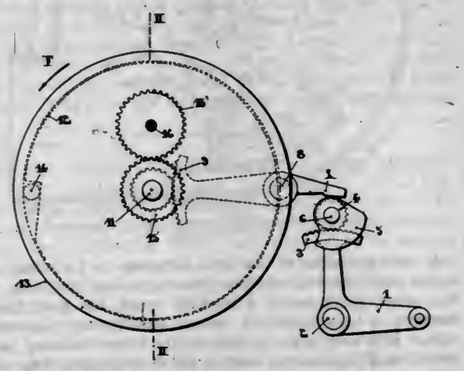
and said reflector, said connections including two conductors fixed in position upon the inside of the casing and two switch mechanisms arranged in series, one of said switch mechanisms being adapted to establish a circuit between the said conductors, and the other mechanism including a conducting cap for holding the battery in place and included in the circuit through one of said conductors.

1,696,514. BURR FOR GRISTMILLS. DAVID S. ANTHONY, San Antonio, Tex. Filed June 17, 1925. Serial No. 37,788. 5 Claims. (Cl. 83—3.)



1. A burr for grist mills comprising a substantially disk shaped body portion, the upper face of said body portion being provided with a series of outwardly extending recesses to form a series of outwardly extending lugs, the upper face of each of said lugs being provided with a group of outwardly extending teeth, the teeth of each group being parallel to each other and extending from the outer to the inner end of said lug.

1,696,515. COMPOSING APPARATUS FOR TYPE-SETTING MACHINES. ROBERT BARENNES, Bordeaux, France. Filed Dec. 1, 1926, Serial No. 152,016, and in France Aug. 23, 1926. 21 Claims. (Cl. 199—51.)

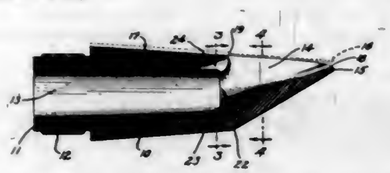


1. A composing apparatus for a type setting machine, comprising a cam shaft, cams mounted so as to be free to turn on said shaft, and corresponding in number to

the number of matrices and consequently to the number of keys on the keyboard, of each cam representing a matrix and the lift of each cam being proportional to the thickness of the matrix it represents, means for producing the lift of the corresponding cam when a key is pressed in order to put into use a matrix, a continuous recording device and means for transmitting the lift of a cam to this recording device each time a key is pressed, the recording device being graduated in typographical measurements representing the thickness of matrices, the arrangement being such that each time a key is pressed a record is made of the thickness of the matrix used so that the total thickness of the matrices used is recorded visibly.

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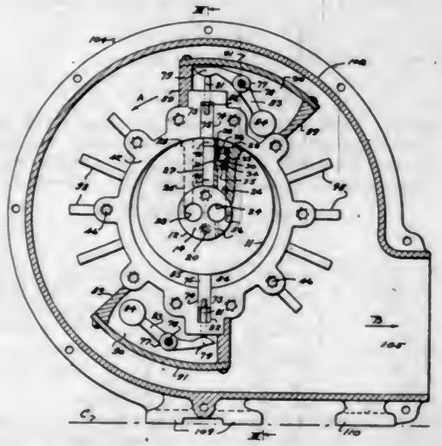
1,696,516. MOUTHPIECE FOR MUSICAL WIND INSTRUMENTS. EUGENE PERCIOUX, New York, N. Y. Filed Apr. 15, 1927. Serial No. 184,087. 7 Claims. (Cl. 84—383.)



3. A mouthpiece for clarinets and the like, comprising a shell having a substantially central passageway extending inwardly from its discharge end, and having an inclined chamber extending from the inlet end of the mouthpiece into communication with said central passageway, the entrance end of said chamber being substantially trapezoidal in outline, and the discharge end of said chamber being defined by overlapped circles in cross-section.

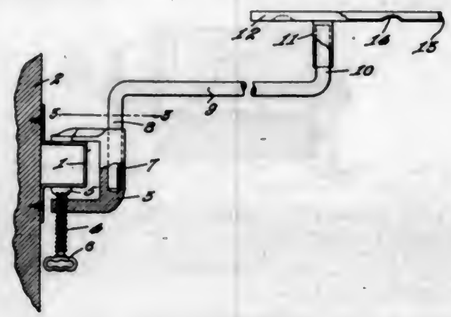
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1,696,517. ROTARY PUMP OR COMPRESSOR. GUSTAF BERGGREN, Brooklyn, N. Y., assignor to Berggren Engineering Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 7, 1925. Serial No. 61,014. 11 Claims. (Cl. 103—121.)



1. An apparatus of the class referred to, including internal and external members revolvable one relatively to the other, there being a working space for fluid intermediate of said members, means establishing communication with said space, a gate in the latter coacting with one of said members to control the flow of fluid thru said means, and preponderant centrifugal means acting against said gate to overcome a like force inherent to its weight in conjunction with the rotative speed of the revolving member.

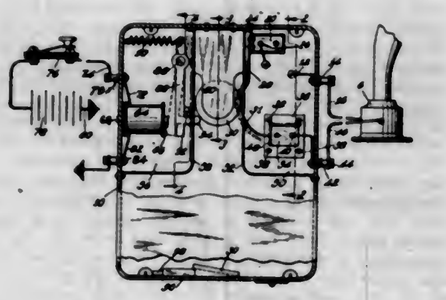
1,696,518. IRON HOLDER. FRED E. BOWMAN and GUY F. CAMERON, Anchorage, Territory of Alaska. Filed Sept. 20, 1926. Serial No. 136,618. 1 Claim. (Cl. 68—27.)



A device for the purpose set forth, comprising a C-shaped clamp adapted to be fixed upon a support and having a socket entering from the top thereof, a rod having its ends bent at right angles in opposite directions, one of said angle ends being adapted to be received in said socket, a plate having a continuous upstanding flange to provide a rest for an iron, and said plate having upstanding lugs integrally formed with the base thereof and a socket which depends from the base to receive therein the second angle end of the rod.

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1,696,519. DEVICE FOR COMMERCIAL RADIO RECEPTION AND OPERATION. LEE M. BOWMAN, Los Angeles, Calif., assignor of one-third to Julian B. Primm, Los Angeles, Calif., and one-third to Tom L. Shepherd, Los Angeles, Calif. Filed Sept. 29, 1926. Serial No. 138,387. 4 Claims. (Cl. 194—9.)



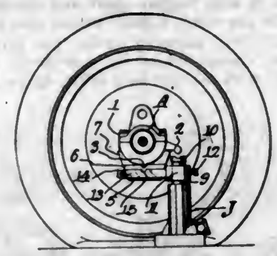
1. In a radio mechanism whereby a master radio set is adapted to operate one or more individual subsidiary radio sets, a pair of electrodes for establishing an electric circuit between said master set and said subsidiary set, a set of appliances whereby a coin may coact with one of said electrodes to bring the latter into electrical contact with the other of said electrodes, and means for releasing said coin and breaking the contact between said electrodes.

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1,696,520. JACK. CURTIS E. BRADBURN, Garden City, Kans. Filed Dec. 6, 1926, Serial No. 153,018. Renewed Feb. 21, 1928. 3 Claims. (Cl. 254—133.)

1. The combination with an axle, a jack lug extending therefrom, and a guide having an opening, of a jack including a movable head for engagement with the lug, a supplemental member extending from the jack and slidable therewith along a supporting surface for insertion into the





guide opening, and a guide rod extending from said member in the direction of movement thereof for insertion into the guide opening in advance of said member.

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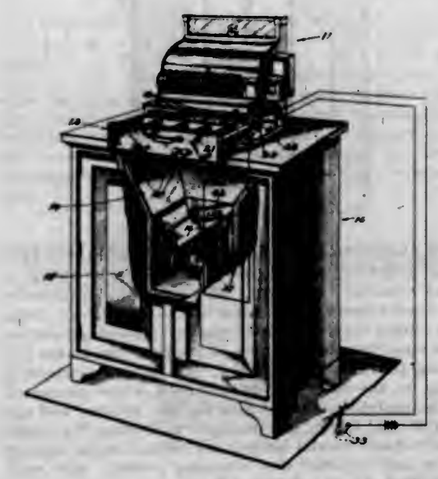
1,696,521. RETRACTABLE LANDING LIGHT. WILLIAM H. CAPELL, Aberdeen, Md. Filed Feb. 3, 1928. Serial No. 251,617. 5 Claims. (Cl. 240—7.1.)



5. A device of the character described including a lamp, means for mounting the same in an aerofoil of an aircraft in such manner that the lens thereof is in substantial continuation of the lower surface of the aerofoil, and means for extending the lamp out of its retracted position.

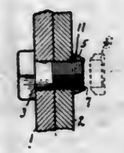
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1,696,522. SAFETY MONEY CONTAINER. WILLIAM F. CLEGG and ALICE E. CLEGG, Oakland, Calif. Filed Apr. 5, 1926. Serial No. 99,766. 11 Claims. (Cl. 109—1.)



1. A device of the character described including a safety box, a drawer adapted under normal operation to retain its contents, lock means normally maintaining the drawer closed, and means adapted to be actuated by an attempt to open the drawer without releasing the lock means to permit the contents of the drawer to automatically transfer to the safety box.

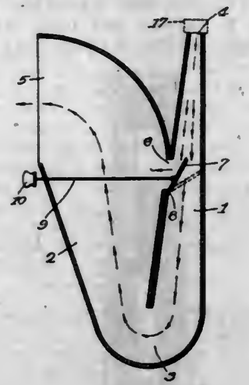
1,696,523. LOCK NUT. WILLIAM F. COCHRAN, Los Angeles, Calif., assignor to Raymond H. Osbrink, Los Angeles, Calif. Filed Feb. 9, 1926. Serial No. 87,103. 2 Claims. (Cl. 151—21.)



1. A nut having a threaded bore adapted to engage a bolt and comprising an inner end having a frusto-conical surface and an outer end forming a polygonal head connected to the inner end by a restricted neck which reduces the thickness of the material between the threaded bore and the exterior of the neck so that the polygonal head may be readily twisted on the bolt in order to bend the broken ends of the threads of the bore over the end of the bolt and leave the inner end of the nut having its exterior surface non-parallel to its axis fixed on the bolt.

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1,696,524. RESONATOR. ELLIS PRENTICE COLE, Chicago, Ill. Filed Sept. 30, 1926. Serial No. 138,659. 3 Claims. (Cl. 181—27.)



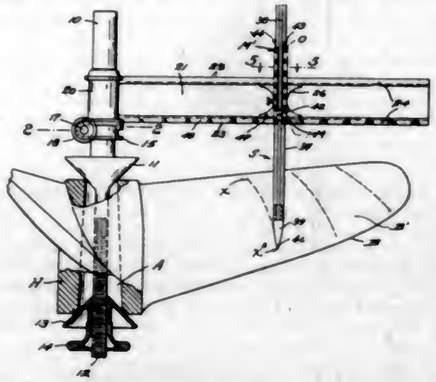
1. In a resonator or sound amplifier, the combination of a passage for the sound waves, of gradually increasing cross sectional area, an opening at one side of said passage, and a deflector disposed in position to control said opening, adapted in one position to close said opening and adapted in another position to deflect the sound waves through said opening, together with means for adjusting said deflector, the resonator having a single expanded sound outlet for both the sound waves traversing the outer passage thereof and for those passing through said opening.

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1,696,525. PROPELLER-BLADE-MEASURING INSTRUMENT. LEIGH H. COOLIDGE, Seattle, Wash. Filed Dec. 9, 1925. Serial No. 74,259. 1 Claim. (Cl. 33—174.)

In an instrument for measuring the pitch of a propeller blade, the combination with a post adapted to be secured axially to a propeller hub, a beam connected to said post for a predetermined arcuate movement, said beam being provided in its front face with a recess between two ridges disposed longitudinally of the beam, a carriage positioned in the recess of said beam and connected to the latter for movement radial of said post, a spring actuated clutch comprising two brake blocks engageable with the ribs of said beam for securing said carriage at selected positions to said beam, and a slide mounted in the car-

riage for movement at right angles to said beam, said carriage being provided with a scale of marks, and a runner slidably connected to said slide for movement at right angles to said beam with and independently of the slide,



said runner being provided with a mark adapted to be used in cooperation with the scale marks on the carriage for regulating the relative positions of the slide with respect to the carriage.

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1,696,526. APPARATUS FOR HANDLING WELL CASINGS. CARL R. CROSSEN, Bell, Calif. Filed Jan. 26, 1927. Serial No. 163,770. 8 Claims. (Cl. 294—95.)

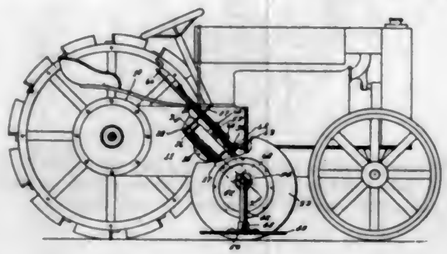


1. An apparatus of the character described comprising an instrument capable of occupying either of two extreme positions, means for actuating the instrument, rotary means for operating the means in one direction or the other to move the instrument to one extreme position or the other, and means by which the rotary means is adapted for operative connection to a rotary drill pipe in a manner to be driven thereby in one direction or the other in response to unidirectional rotation of the drill pipe.

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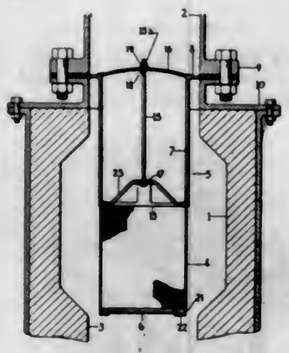
1,696,527. SAW ATTACHMENT FOR TRACTORS. OWEN M. CRUMLY, Carlisle, Iowa. Filed June 14, 1927. Serial No. 198,791. 5 Claims. (Cl. 143—43.)

4. In a saw device, the combination of a supporting frame having a power shaft, a gear casing secured to said frame for receiving said shaft and adapted to be adjusted rotatively about said shaft, a second gear casing rotatively mounted on the first gear casing on an axis perpendicular to the power shaft, a tubular shaft rotatively mounted in said second gear casing perpendicular to the pivotal movement of said second gear casing, the outer end of said tubular shaft being provided with a perpendicular portion, a saw shaft rotatively mounted in said perpendicular portion, a saw blade for said shaft, a shaft rotatively mounted in said tubular shaft and operatively connected with said saw shaft, a shaft within said second gear casing and rotatively mounted within the pivot axis of said second gear casing, means for operatively connecting the power shaft with the last said shaft, means for operatively connecting the last said shaft with the shaft rotatively mounted within said tubular shaft, a supporting sleeve rotatively mounted on said tubular shaft, the outer end of said sleeve being provided with an eccentric, a gauge wheel rotatively mounted on said eccentric, means for rotating said supporting sleeve, means for rotating said tubular shaft, and means for rotating said second gear casing.



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1,696,528. CONTACT-SCREEN HOLDER. CLARK W. DAVIS, Swarthmore, Pa., and GUY B. TAYLOR, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 15, 1927. Serial No. 184,051. 5 Claims. (Cl. 23—288.)



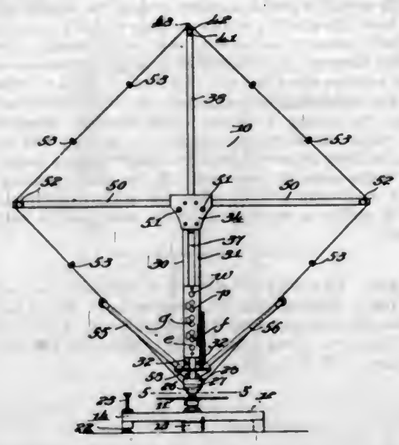
1. In a screen holder, an open-ended cylindrical shell having the peripheral edge of one end interiorly tapered, a circular member exteriorly peripherally cooperatively tapered and adapted for reception within the said end of the shell to place the tapers in cooperative clamping relation for the reception and clamping of a screen, and means for clamping the members together; such means comprising a bridge at the other end of said shell, a rod connected with the central portion of said circular member and extending to said bridge, and means at said bridge for drawing said rod and circular member toward said bridge thereby to move said member into clamping position with said tapered edge of said cylindrical shell.

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1,696,529. LOOP ANTENNA. TOBE C. DEUTSCHMANN, Boston, Mass. Filed Jan. 24, 1924. Serial No. 688,820. 5 Claims. (Cl. 250—33.)

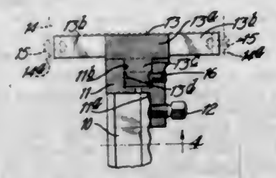
5. A collapsible loop antenna frame comprising diagonal supporting members, one of which comprises two telescoping parts adapted to telescope one within the other substantially throughout their entire length, a second diagonal member comprising two arms hinged to one end of one of the telescoping parts and adapted to be folded in the plane of the loop parallel to the telescoping parts.





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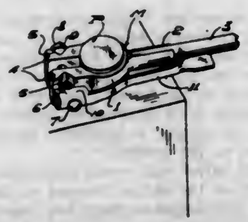
1,696,530. MAIL-BOX SUPPORT. JAMES E. DUNCAN, De Kalb, Ill. Filed June 27, 1927. Serial No. 201,782. 1 Claim. (Cl. 232—40.)



In combination with a standard metal post substantially T-shaped in cross section; a cap member substantially triangular in shape in cross section and adapted to fit over the end of said post and provided with slots to receive the flanges of said post, the upper surface of said cap member being provided with a socket therein adapted to receive the pivot shaft of a mail box support; and a set screw threaded into one flat face of said cap member and adapted to engage the center of one of the webs of the post.

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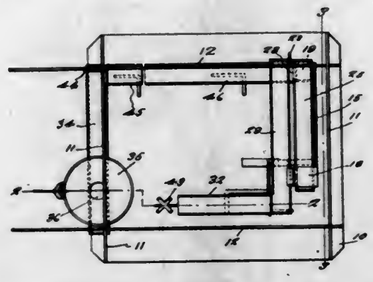
1,696,531. TERMINAL CONNECTION. JAMES H. EATON, Colby, Kans. Filed Sept. 24, 1927. Serial No. 221,766. 3 Claims. (Cl. 173—259.)



1. A terminal connection comprising a pair of jaws adapted to receive a terminal post therebetween, blocks carried by the outer ends of the jaws, a shank freely disposed through the blocks, a transversely disposed groove provided in the outer face of each of the blocks, said shank being disposed through said grooves, means carried by the shank for contact with the outer face of one of the blocks, an enlargement carried by the opposite end portion of the shank, a head freely mounted on the shank between the enlargement of the shank and the second block, said head when in one position extending within the groove of the adjacent block to permit separating movement of the blocks and jaws, said head when turned to a position angular to the groove forcing the blocks and jaws one toward the other.

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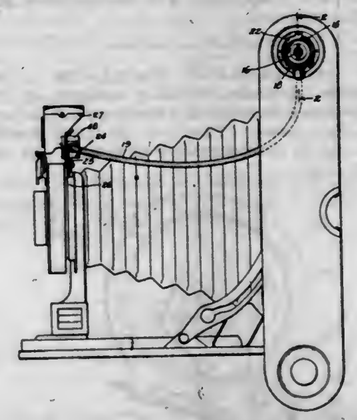
1,696,532. TOY. THOMAS B. ENLOE, Little Rock, Ark. Filed Oct. 12, 1927. Serial No. 225,719. 6 Claims. (Cl. 46—37.)



1. A toy comprising, a rotatable arm, means for rotating said arm, buckets on the ends of said arm having trip levers pivoted therein, an obstruction in the path of revolution of said levers, tongues within the buckets forming a part of said levers and being adapted to receive balls for tripping the levers to dispose them out of engagement with said obstruction, a series of troughs forming a gravitational course for the balls, the upper end of said course being in position to receive the balls discharged by said buckets at the upper limit of their revolution and the lower end of said course being arranged to dispose the balls in said buckets.

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1,696,533. FILM SIGNALING DEVICE FOR CAMERAS. FRED W. GAGE, Los Angeles, and ALBERT W. TONDREAU, Glendale, Calif. Filed Apr. 20, 1926. Serial No. 103,328. 7 Claims. (Cl. 95—31.)

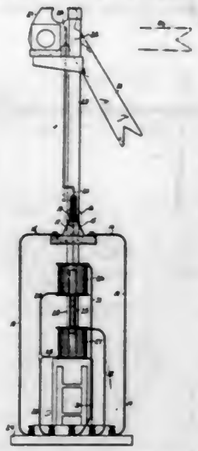


1. A film signal device for cameras comprising a signal element movable to occupy two signaling positions, yieldable means for urging the signal element to one signaling position, means for moving the signal element to and maintaining it in the other signaling position, means adapt-

ed for operation by a shutter mechanism for rendering the second means ineffective to maintain the signal element in the other signaling position, and means adapted for operation by a film winding means for actuating the second means to return the signal element to the other signaling position, the second means being capable of lateral movement by the third means to render the second means ineffective, and capable of rotary movement by the fourth means to return the signal element to the other signaling position.

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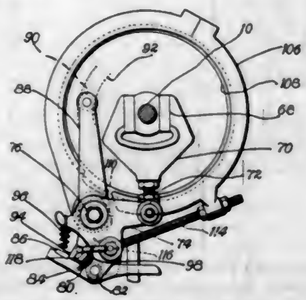
1,696,534. TOY ELECTRIC-RAILWAY CONTROL DEVICE. AARON H. GILL, West Haven, Conn. Filed July 14, 1926. Serial No. 122,355. 3 Claims. (Cl. 246—31.)



1. A toy electric-railway control-device, comprising a visual indicating-signal; a standard therefor; a solenoid for moving said signal into its danger-indicating position; a second solenoid for moving the said signal into its clear-track-indicating position and arranged axially in line with the first-mentioned solenoid; an armature axially arranged within and extending between both of said solenoids; a signal-operating rod axially in line with and forming an extension of said armature; a movable switch-member connected to the said armature for operation thereby; and a complementary stationary switch-member carried by the said standard; whereby a train-control circuit may be made or broken concurrently with the operation of said visual indicating-signal.

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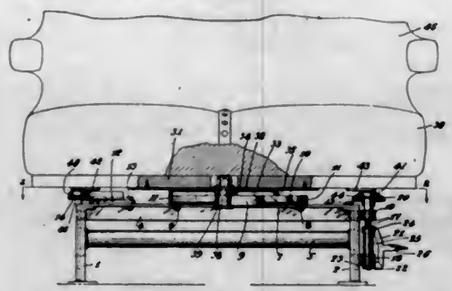
1,696,535. CONTROLLING MECHANISM. JOSEPH GOULDBOURN, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 26, 1926, Serial No. 144,363, and in Great Britain Nov. 6, 1925. 13 Claims. (Cl. 192—144.)




1. Clutch mechanism comprising a shaft, a clutch member fixed upon the shaft, a driven member slidably mounted upon the shaft and provided with a clutch surface arranged for movement into and out of engagement with the clutch member fast upon the shaft, a spring tending to urge the slidably mounted clutch member toward the clutch member fixed upon the shaft, a wedge member slidably mounted on the shaft, connections between said wedge member and the slidably mounted clutch member whereby movement of the wedge member along the shaft operates to force the slidably mounted clutch member away from the other clutch member against the spring, a second wedge member engaging the first wedge member, and means for moving the second wedge member transversely of the shaft thereby forcing the first wedge member lengthwise of the shaft against said spring to disconnect the clutch and permitting its return by said spring to render the clutch operative to transmit power.

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1,696,536. CAR SEAT. CONRAD T. HANSEN and ALFRED B. BELL, Philadelphia, Pa., assignors to The American Motor Body Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 7, 1926. Serial No. 127,756. 16 Claims. (Cl. 155—96.)



1. In a seat of the character described, in combination, a supporting frame, a seat cushion supported for rotation and shifting on said frame, and means adapted to shift said cushion on said frame in a predetermined manner when the cushion is rotated thereon, said means including a cam track disposed at one end of the supporting frame and members mounted adjacent opposite ends of the seat cushion for movement therewith, said members adapted to enter and leave said cam track and to coact therewith at predetermined times during rotation of the cushion.

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1,696,537. AUTOMATIC FIREARM. JOHN T. KEWISH, New York, N. Y. Filed Apr. 13, 1927. Serial No. 183,390. 51 Claims. (Cl. 42—3.)



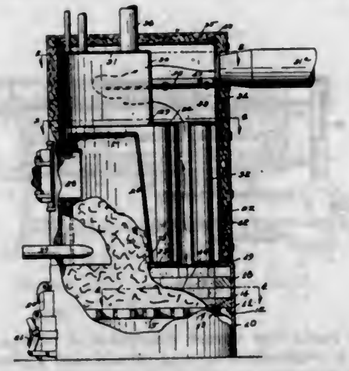
1. In a gun, a receiver having guideways for a breech lock and locking grooves in which a breech cover is slidably locked and provided with depending portions adapted to support a trigger and associated parts and to carry a magazine and provided at its forward end with a sectionally threaded projecting head adapted to receive a barrel on the inside and to receive a rotatable, barrel-detachable, coupling member on the outside.

8. In a gun, a barrel and means positioned in and surrounding a part of the firing chamber of the barrel for lubricating the cartridges as they are inserted into the barrel.

20. In a gun, an actuator provided with an interior projection, a bolt rotatably and slidably mounted on said projection, means for rotating said bolt and means for locking said bolt on said projection.



1,696,538. FURNACE. VIRGIL BALLOU, Des Moines, Iowa. Filed Dec. 24, 1925. Serial No. 77,486. 2 Claims. (Cl. 122—117.)



1. A furnace comprising a base member including a fire pot, a boiler member detachably mounted above said base member, said boiler member being provided with a vertically arranged magazine having its lower end communicating with the top of the chamber within said fire pot and its top end closed, said magazine being eccentrically mounted within said fire pot and provided with a fuel opening near its upper end, the space between said magazine and the vertical walls of said boiler being provided with vertically arranged flues, a cap member on the upper end of said boiler, and a steam dome for said boiler and arranged eccentrically in said cap and directly above said magazine, said cap member having horizontally arranged baffle plates mounted in the larger portion of the space between said dome and the inner wall of said cap, said cap being provided with a flue opening above said baffle plates.

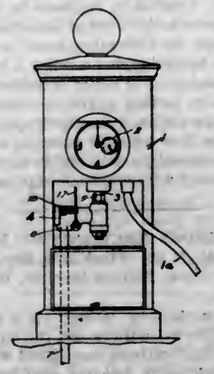
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1,696,539. PURIFICATION OF ORGANIC COMPOUNDS. DONALD B. BRADNER, Gordon Heights, Del. Filed June 25, 1925. Serial No. 39,880. 3 Claims. (Cl. 260—14.) (Granted under the act of Mar. 3, 1883, as amended Apr. 30, 1928, 370 O. G., 757.)

1. In a process of making diphenylaminechlorarsine, introducing crude, molten diphenylaminechlorarsine into water and agitating the mass until the diphenylaminechlorarsine has solidified.

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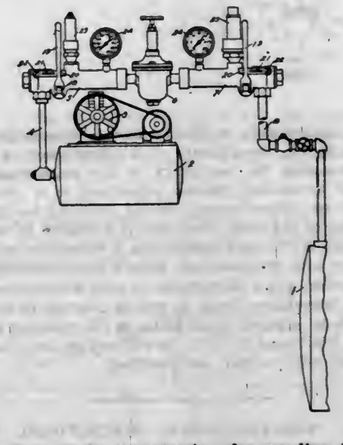
1,696,540. SAFETY DEVICE FOR GASOLINE FILLING STATIONS. NELSON A. CARLSON, Erie, Pa., assignor to Erie Meter Systems, Inc., Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1927. Serial No. 211,175. 2 Claims. (Cl. 221—95.)



1. In a safety device for gasoline filling stations, the combination of a conduit; a self-closing valve in the conduit comprising a body, a valve seat in the body, an arm operating to open the valve, a stem on the arm extending to without the body, and a handle pivotally mounted on the stem, the axis of the pivot being crosswise of the stem; and a fusible link having a shoulder engaging the handle and locking the valve in open position, the handle being free to swing on its axis clear of the shoulder.

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1,696,541. CONTROLLING MECHANISM FOR GASOLINE TANKS. NELSON A. CARLSON, Erie, Pa., assignor to Erie Meter Systems, Inc., Erie, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1927. Serial No. 211,176. 2 Claims. (Cl. 221—74.)



1. In a controlling mechanism for gasoline tanks, the combination of a pressure fluid supply means; a conduit leading from the means to the tank; a self-closing valve in the conduit; and thermally controlled devices securing the valve in open position and releasing the same under abnormal heat.

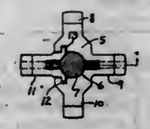
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1,696,542. PROCESS FOR EVAPORATING BRINES. GEORGE B. BURNHAM, Reno, Nev., assignor to Burnham Chemical Company, Reno, Nev., a Corporation of Nevada. Filed Nov. 16, 1925. Serial No. 69,273. 1 Claim. (Cl. 23—41.)

The process of evaporating Searles Lake brine which comprises pumping the brine from its normal subterranean position, and exposing the pumped brine in an open pond of sufficient extent and depth to be conductive to wave action in the brine under the influence of the wind, whereby the formation of a salt crust is prevented.

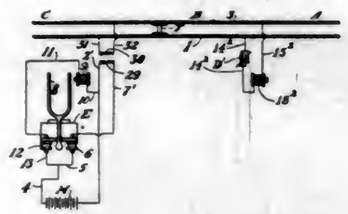
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1,696,543. DETACHABLE SUCKER-ROD GUIDE. JOHN C. GARROTT, Houston, Tex. Filed July 5, 1927. Serial No. 203,376. 5 Claims. (Cl. 308—4.)



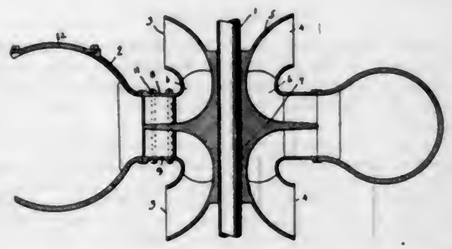
1. A sucker rod guide comprising a body with a central longitudinal channel for a sucker rod, four symmetrical ribs extending radially from the body to engage the tubing, said body being divided transversely through two opposite ribs, the other ribs being formed integrally with a section of said body and adapted to interfit with the adjacent body portion, to clamp the parts upon a rod.

1,696,544. SIGNALLING SYSTEM OR THE LIKE. NEWMAN H. HOLLAND, East Orange, N. J., assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Original application filed July 13, 1920, Serial No. 395,897. Divided and this application filed May 10, 1924. Serial No. 712,180. 4 Claims. (Cl. 175—373.)



1. In combination, a direct-current constantly closed circuit including the primary of a transformer, a second circuit including the secondary of the transformer, and means for producing current pulsations of a given frequency in the direct-current circuit whereby an alternating current of the same frequency is produced in said second circuit, said means comprising a vibratory reed independent of said directcurrent circuit and vibrated at its natural period and a microphone in said direct-current circuit, said microphone being in spaced relation to said reed so as not to be engaged by the latter in the vibration thereof, but being positioned so as to be affected by the vibrations of the reed, substantially as described.

1,696,545. VARIABLE-HEAD CENTRIFUGAL PUMP. ALADAR HOLLANDER, Berkeley, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co., a Corporation of Delaware. Filed Apr. 23, 1928. Serial No. 271,999. 5 Claims. (Cl. 103—111.)

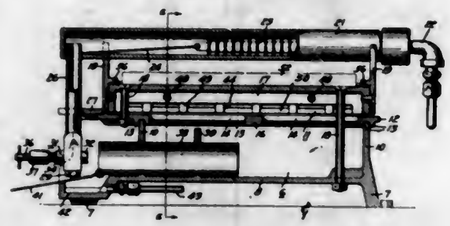


1. In a centrifugal pump, a volute casing, an impeller mounted to rotate in said casing and having fixed vanes and a pair of disc sides extending to a greater diameter than said vanes, a plurality of removable members adapted to be detachably fixed between said disc sides and forming extensions to said vanes.

1,696,546. CATALYTIC OXIDATION OF SURPHUR DIOXIDE. ALPHONS O. JAEGER and JOHANN A. BERTSCH, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Feb. 15, 1926. Serial No. 88,488. 14 Claims. (Cl. 23—175.)

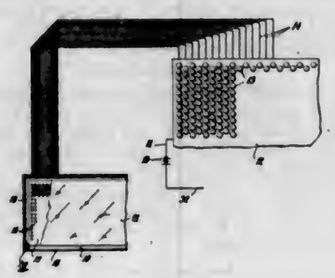
1. The process of catalytically oxidizing sulphur dioxide which comprises passing gases containing sulphur dioxide and oxygen at an elevated temperature over a catalyst comprising a zeolite which contains at least one catalytically active element in non-exchangeable form and is combined with a catalytically active acid radical.

1,696,547. LIQUID-FUEL BURNER. JESSE E. KRESKY, Petaluma, Calif. Filed Apr. 11, 1927. Serial No. 182,632. 4 Claims. (Cl. 158—63.)



1. A liquid fuel burner comprising a mixing chamber having a longitudinal opening therein, and a closure overlying said opening and having a longitudinal conduit forming an extension of said mixing chamber, said closure including a plurality of juxtaposed burner bars forming fuel release apertures therebetween and providing transverse channels connecting said apertures to said longitudinal conduit.

1,696,548. ELECTRICALLY-DISPLAYED WRITING APPARATUS. CARMELO LAURIA, New York, N. Y. Filed Sept. 21, 1926. Serial No. 136,788. 5 Claims. (Cl. 177—350.)

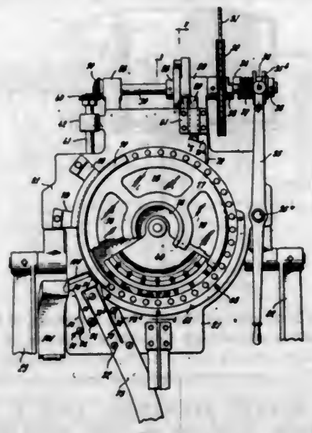


1. An electrical writing display device comprising in combination with a source of electric energy, a field of electric lamps having a comon ground in circuit with said electrical source, a series of contacts in circuit with said lamps, a yieldable plastic cover of non-conductive material over said contacts, an insulating plate in which said contacts are set, a hollow stylus having a point adapted to generate a channel in said cover extending to contacts in its path, the point having a groove communicating with the interior of the stylus, a conductive substance supplied by said stylus to flow into the channel as formed by its point, and an electrode in said stylus in circuit with said electrical source and with the conductive material therein.

1,696,549. FEEDING MECHANISM. MICHAEL J. MAGUTH, Carlstadt, N. J. Filed July 23, 1925. Serial No. 45,485, and in Great Britain Mar. 23, 1925. 12 Claims. (Cl. 112—106.)

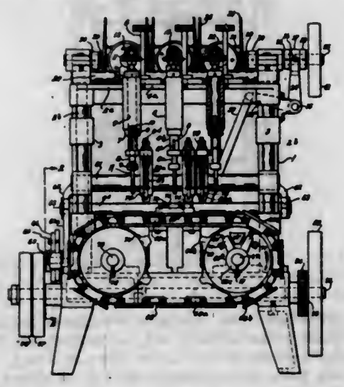
1. A feeding mechanism embodying a hopper provided with spaced peripheral outlets for the articles contained therein, a chute cooperatively associated with said hopper, means for intermittently rotating said hopper to sequentially bring said outlets to delivery position with relation to said chute whereby articles disposed in a predetermined position within said outlets will enter said chute, means actuatable for releasably retaining within said outlets those articles which are not in such predeter-





mined delivery position, and mechanically actuated means timed to enter each of said outlets when said hopper is at rest to clear the same of obstructions.

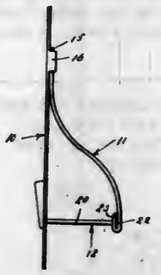
1,696,550. MACHINE FOR DRILLING, TAPPING, AND THE LIKE. PETER MEYER, Newark, N. J. Filed Apr. 7, 1927. Serial No. 181,636. 1 Claim. (Cl. 10—128.)



A machine of the character described comprising a reciprocative tool carrier, means to reciprocate the carrier, spaced spindles for tools supported by the carrier, means to rotate the spindles in opposite directions in accordance with the reciprocations of the carrier, a resilient presser associated with each spindle, the pressers including a support adjustably carried by the carrier, a bushing on the support, a rod slidable in the bushing, a spring operative with the rod to normally press the latter toward the work, and means to limit movement of the presser rods toward the work, the bushings being adjustably carried by the supports, the presser rods having stops opposing the springs, the springs opposing the bushings.
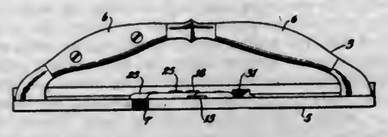
1,696,551. BAG HOLDER. GEORGE W. MORDEN and MARTIN WEBER, Los Angeles, Calif. Filed Jan. 9, 1925. Serial No. 1,409. 1 Claim. (Cl. 211—57.)

A bag holder comprising a base, an arm having one end adapted to be connected to the base and the other end to be spaced from the base, means for attachably connecting the arm and base including a wedge shaped head on the arm and ears on the base to receive and hold the head, a socket in the base, and a pin permanently carried by the end of the arm spaced from the base to extend from the



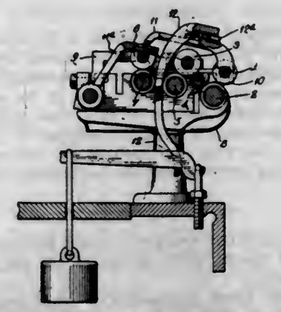
arm into the socket in the base, the pin being in the form of a nail, the head of the nail being permanently connected to the arm and the point of the nail extending into the base.

1,696,552. CARPENTER'S PLANE. HANS L. OSC, New York, N. Y. Filed Jan. 26, 1927. Serial No. 163,687. 5 Claims. (Cl. 145—5.)



1. In a device of the class described, the combination with a frame having a supporting surface, a cutting blade secured to said frame with its cutting edge projecting from the edge of said frame to cut surfaces extending at an angle to the supporting surface of said frame, there being a pocket in said frame disposed adjacent to the cutting blade, and a deflector plate having an upper surface inclining upwardly from the supporting surface to deflect the chips or shavings upwardly, the frame having a deflecting lip with its outer surface curving away from the cutting blade to form one wall of said pocket and serving to deflect the chips or shavings away from said blade.

1,696,553. DRAFTING SYSTEM. HENRY A. OWEN, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a Corporation of Massachusetts. Filed Nov. 26, 1926. Serial No. 150,681. 6 Claims. (Cl. 19—130.)

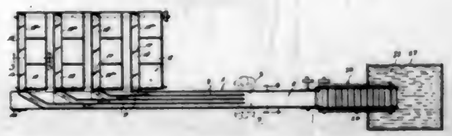


1. In a drafting roll system for roving, the combination of front and back pairs of rolls operating under pressure whereby they are non-slipping in relation to the roving, and a group of intermediate rolls two of which are positively-driven rolls and a third of which rests in the crotch

of the other two being driven by them, one of said positively-driven intermediate rolls being of relatively small diameter, as compared to said front and back rolls, and located close to said front rolls whereby its nip line is spaced less than the staple length from the nip line of said front rolls, the intermediate top roll being adapted to permit the roving to pull through beneath it under the draft exerted by said front rolls.

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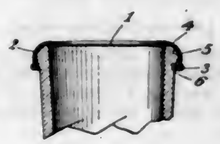
1,696,554. SIZING APPARATUS FOR FRUIT, MELONS, VEGETABLES, AND THE LIKE. ALBERT W. PHELPS, Heber, Calif. Filed Oct. 4, 1926. Serial No. 139,278. 5 Claims. (Cl. 209—75.)



1. In an apparatus for sizing fruit or melons, the combination of a hand-sorting table with conveyor means for advancing the fruit, said table having rails extending part of the length of the conveying means from its delivery end toward its receiving end, and dividing the same into a plurality of open runways adapted to receive the fruit or melons of different grades moved about on the same by the hands of operators located beside the table, and a plurality of laterally extending mechanical sizing tables corresponding respectively to the different runways and receiving the fruit or melons therefrom, each of said lateral sizing tables having a belt for advancing the fruit, bins for the different sizes of fruit alongside of the lateral sorting tables, and gauge devices for sorting the fruit of different sizes into the bins.

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1,696,555. CLOSURE AND METHOD OF SEALING. ABRAHAM PODEL, Long Island City, N. Y., assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y., a Corporation of New York. Filed Mar. 18, 1925. Serial No. 16,274. 13 Claims. (Cl. 215—38.)

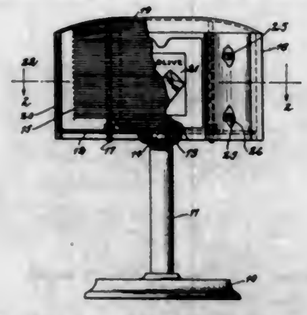


1. As an article of manufacture a closure cap comprising a cover portion; a skirt of curved cross section adapted to cooperate with a curved zone contiguous to the mouth of a container; and a wire edge at the extremity of said skirt, the lower portion of said skirt being adapted to be interlocked with a suitable container by mere bodily movement of the wire edge radially of the cap and the wire edge being cut at intervals to facilitate such radial movement.

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1,696,556. NAPKIN STAND. FRED SCHOFER, Bronx, N. Y. Filed Apr. 21, 1927. Serial No. 185,497. 4 Claims. (Cl. 312—61.)

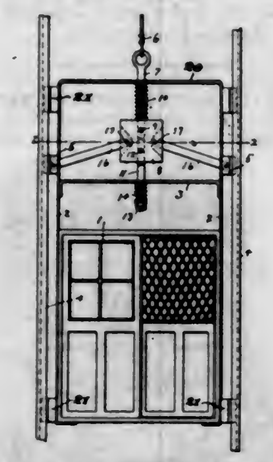
1. A napkin stand comprising a plate supporting a stack of napkins thereon, a means for supporting said plate, a hood having a dome-shaped top adapted to rest upon the stack of napkins to hold the same down by its weight and to be gradually lowered with the diminishing size of the napkin stack during the use of the napkins, said top having a circular, centrally located opening allowing the ready removal of the napkins, and a plurality of depending frames formed with said hood, means for



guiding said hood during the gradual lowering of the same, and a means for permitting the ready rotation of the hood and plate.

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1,696,557. SAFETY ELEVATOR. LEON A. TOMLIN, Baltimore, Md. Filed Apr. 28, 1925. Serial No. 26,325. 1 Claim. (Cl. 187—85.)



The combination of an elevator, a frame secured to the elevator, guide rails on each side of said elevator, guide shoes rigidly secured to the upper and lower ends of said frame, a rod projecting through the top of said frame, a cable having one end secured to the upper end of said rod, a block into which the lower end of said rod is secured, a coiled spring between the upper cross piece of the frame and said block, a second rod having its upper end secured to said block and provided with a head on its lower end, a second cross piece secured to said frame between said first named cross piece and the elevator, a coiled spring surrounding the last named rod between the said head and said second cross piece, rods projecting from opposite sides of said block and having their outer ends projecting through the sides of said frame, and a brake shoe pivoted to the end of each of said last named rods and projecting into the guide rails.

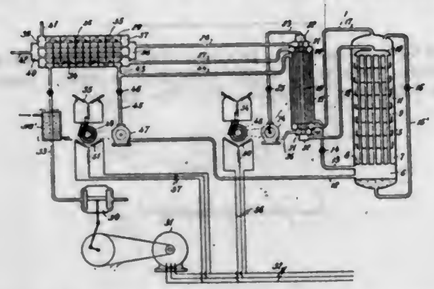
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1,696,558. REFRIGERATION. CLAUDE C. VAN NUYS, Cranford, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 14, 1925. Serial No. 15,486. 3 Claims. (Cl. 62—175.)

1. A method of refrigeration, which comprises compressing a gas with expenditure of electrical power from



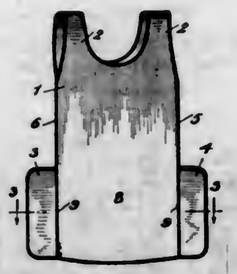
an external source, cooling and expanding the gas to recover energy therefrom, thereby further reducing the temperature of the gas, converting the recovered energy into electrical power having the same characteristics as the power which is utilized in compressing the gas, supplement-



ing the external power with the power thus developed, and regulating the rate and degree of expansion by adjusting the conversion to produce the desired electrical current while expansion is conducted at maximum efficiency under given conditions of pressure and volume of the gas.

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1,696,559. CHILD'S GARMENT. DAISY S. WARD, Brooklyn, N. Y. Filed Jan. 18, 1928. Serial No. 247,608. 1 Claim. (Cl. 2—111.)

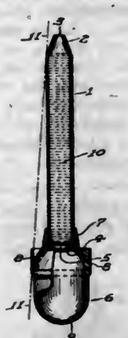


A child's undergarment provided with means for attaching to and supporting a diaper, said means consisting of several tabs of substantial width secured to the body of the garment and extending out laterally from the sides thereof and permitting the diaper to be attached at any desired point on said tabs and thus held in a higher or lower position of adjustment on the body according to the size of the child, the lower edges of said tabs beginning near the lower edge of the garment body, and lines of stitching located between the tabs and the body of the garment to permit the severance of said tabs from said body without interrupting the continuity of the garment body.

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1,696,560. SYRINGE AND MEDICINE DROPPER. WALTER F. WARE, Haddonfield, N. J., assignor to The Walter F. Ware Company, a Corporation of New Jersey. Filed Aug. 12, 1927. Serial No. 212,418. 5 Claims. (Cl. 128—233.)

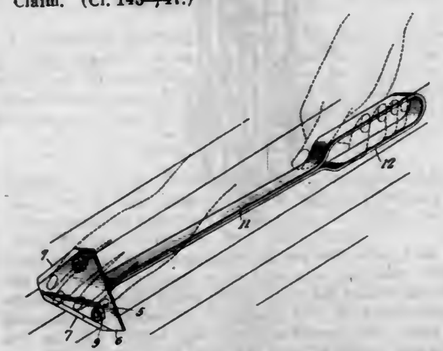
1. In a device of the character described, the combination of a hollow glass barrel provided with a glass nozzle at one end and an integral glass wall at the other end, and a resilient bulb tightly fitting around the outer surface of said barrel at the end thereof which is provided with said wall, said wall being provided with an aperture therethrough located substantially coaxial with said barrel and of so small a size that a liquid in said barrel will not flow through said aperture after said bulb is fully expanded and the device is thereafter inverted to bring the nozzle end of the barrel uppermost, the cubical capacity of said bulb, when fully expanded, being slightly less than that of said barrel and operative, when expanding, to



draw liquid into said barrel through said nozzle and when being compressed, to eject liquid from said barrel through said nozzle.

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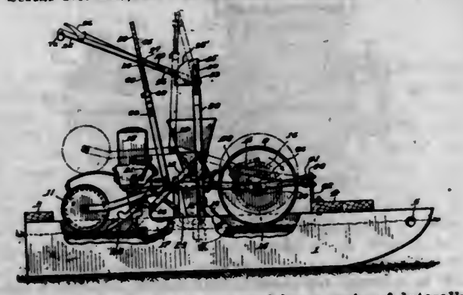
1,696,561. SCRAPER. SAMUEL ALEXANDER, New York, N. Y. Filed June 30, 1928. Serial No. 289,353. 1 Claim. (Cl. 145—47.)



A scraping device comprising a scraping blade having two cutting edges inclined towards each other, a handle formed from a flat strip of metal bent upon itself and looped at one end to form a hand grip, the free ends of the strip being bent outwardly and twisted, and means for attaching the blade to the arms so that the plane of the blade will be inclined to the axis of the handle with the plane of the metal strips forming the handle bisecting the angle between the cutting edges.

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1,696,562. SEEDING IMPLEMENT. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Nov. 4, 1926. Serial No. 146,127. 3 Claims. (Cl. 97—63.)

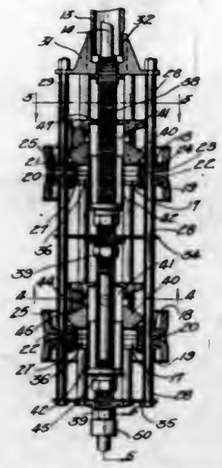


1. A seeding implement comprising a pair of laterally spaced parallel interconnected runners forming a sled

adapted to straddle a hill, a plurality of seeders disposed between the runners in parallel relation, means connecting the forward end of each seeder to the sled and forming a horizontally disposed axis about which the seeders can independently turn, a frame secured to the runners and extending across the seeders, an operating lever carried by said frame and rotatable on a horizontal axis, a yoke pivotally connected adjacent the rear end of each seeder, and means connecting each of said yokes with said lever whereby movement of said lever is operative to raise and lower all of said seeders simultaneously with respect to the runners.

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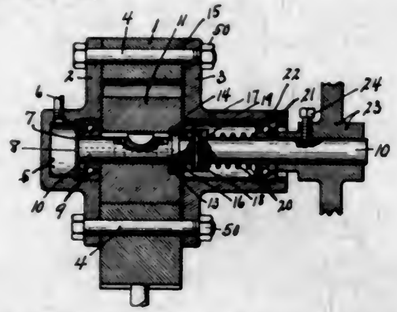
1,696,563. PUMP PLUNGER. DAVIS BARNARD, Apple Valley, Calif. Filed Feb. 14, 1923, Serial No. 618,918. Renewed Mar. 24, 1928. 15 Claims. (Cl. 103—225.)



1. In a pump plunger, the combination of: a valve seat; a valve co-acting with said valve seat; an upwardly disposed cup gasket for scraping the pump barrel wall on the upward stroke of said plungeer; a downwardly disposed cup gasket for scraping the pump barrel wall on the downward stroke of said plunger; means for rigidly securing said cups together adjacent said valve seat, both of said cup gaskets being in communication with the valve seat opening when the valve is in open position; and means for rotating said valve on each downward stroke of said plunger.

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1,696,564. COMPRESSOR. EUGENE L. BARNES, Watertown, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa., a Corporation of West Virginia. Filed May 22, 1925. Serial No. 32,174. 2 Claims. (Cl. 286—11.)



2. In a rotary compressor, the combination with a compressor casing having a lateral bearing housing and a shouldered rotary shaft in said casing with a bearing in said housing, of a flexible diaphragm around the shaft between shoulder and bearing, a collar on the shaft between diaphragm and bearing, and spring means between said bearing and collar urging the latter toward said diaphragm and shoulder.

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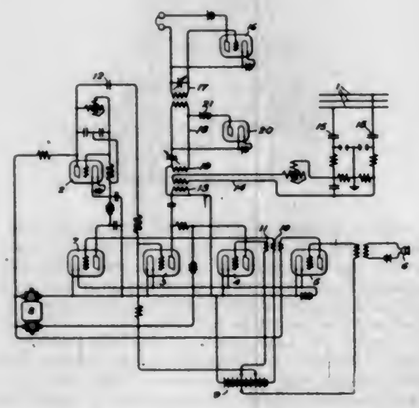
1,696,565. ACOUSTIC DIAPHRAGM. CHARLES BLIEBERGER, New York, N. Y. Filed Sept. 4, 1926. Serial No. 133,723. 10 Claims. (Cl. 181—32.)



1. An acoustic diaphragm having two zones of wedge-shaped cross section extending across the disk, and a zone of approximately uniform thickness and uniform width extending chordally across the disk between the wedge-shaped zones.

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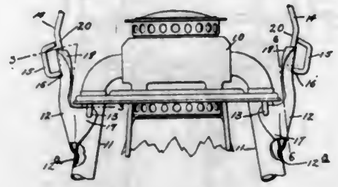
1,696,566. HIGH-FREQUENCY DUPLEX SIGNALING SYSTEM. EMMETT F. CARTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 25, 1924. Serial No. 752,243. 12 Claims. (Cl. 179—15.)



1. The combination in a high frequency signaling system of a signaling circuit having normally inoperative transmitting apparatus including electron discharge devices and receiving apparatus simultaneously coupled thereto, said receiving apparatus being tuned to respond to currents of the frequency supplied to the signaling circuit by the transmitting apparatus, and the transmitting apparatus being so arranged that it supplies high frequency current to the signaling circuit independently of the cathode heating current of any of said discharge devices and substantially simultaneously with the application of signalling potential thereto, and means operating independently of signaling potentials for protecting said receiving apparatus from injury due to the current supplied from said transmitting apparatus.



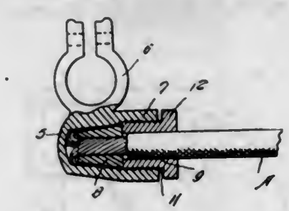
1,696,567. BAIL CONSTRUCTION FOR LANTERNS AND THE LIKE. ROBERT A. CURRIE, Syracuse, N. Y., assignor to R. E. Dietz Company, New York, N. Y. Filed Oct. 18, 1926. Serial No. 142,270. 7 Claims. (Cl. 240—52.)



1. The combination of a bail and fixed bail ears to which said bail is pivotally connected, said ears consisting of trough-like sheet metal pieces having their side portions extending inwardly and holes in which the bail is pivoted, said side portions of the ears extending upwardly above the bail pivots and having upper parts which are rigid with said side portions and extend transversely inward substantially parallel with each other at opposite sides of the legs of the bail, whereby said upper parts are adapted to engage opposite sides of the legs of the bail and positively hold the bail from pivotal movement on the ears.

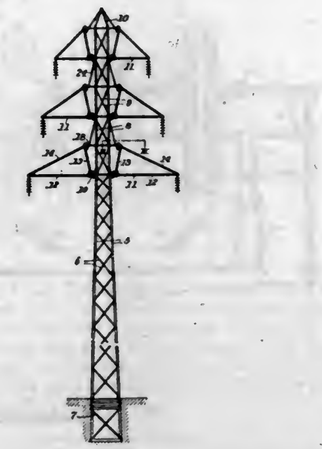
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1,696,568. BATTERY TERMINAL. FRED F. FOGEL, Hawarden, Iowa. Filed July 6, 1926. Serial No. 120,727. 1 Claim. (Cl. 173—259.)



A battery terminal comprising a post engaging clamp and a body associated therewith provided with a socket having inwardly tapered walls, the inner end of said socket being closed and its outer end being internally screw-threaded, an externally tapered sleeve loosely disposed in said socket and having a single longitudinal split whereby it is made resilient, an electrical conductor formed of a series of strands disposed through the sleeve and having the free ends of the strands reversely bent over the inner edge of the sleeve and disposed to lie for a substantial distance between and to be engaged by the tapered surfaces of the sleeve and socket, and a second sleeve disposed over the conductor and having external screw-threads engaging with the screw-threads of the socket, the inner edge of the last named sleeve being adapted to engage the outer edge of the split sleeve to force the latter inwardly, whereby to bind the periphery of the conductor and to grip the free ends of the strands between the periphery of the split sleeve and the inner circumferential wall of the socket.

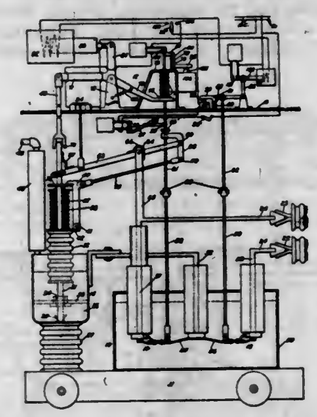
1,696,569. TRANSMISSION TOWER. HAROLD O. HILL, Aspinwall, Pa., assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Dec. 22, 1926. Serial No. 156,422. 7 Claims. (Cl. 189—33.)



1. A transmission tower having a revoluble cross-arm pivotally mounted on the tower for movement in the direction of the line when subjected to unbalanced longitudinal loading, said cross-arm having its axis of rotation inclined with respect to the vertical axis of the tower.

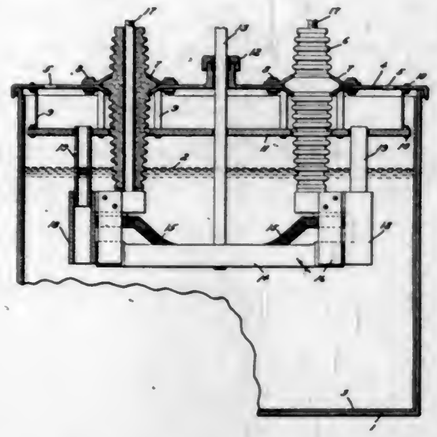
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1,696,570. OIL SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 30, 1922. Serial No. 548,155. 4 Claims. (Cl. 175—375.)



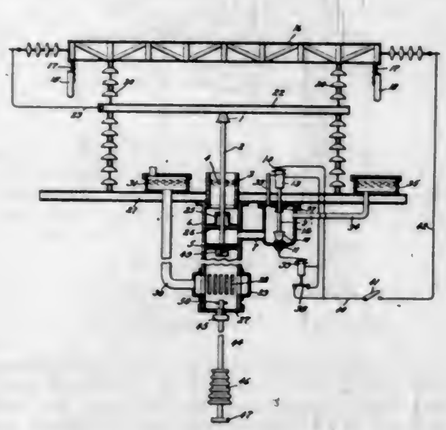
4. An electric switch comprising a pair of cooperating circuit opening contacts, a pair of cooperating circuit closing contacts arranged in series with said first pair, a third pair of cooperating auxiliary circuit opening contacts arranged in shunt with said first pair, a spring for accelerating the opening movement of the auxiliary contacts, a latch for retaining the auxiliary contacts in closed circuit position, switch operating means comprising a member arranged to separate the opening contacts, means responsive to a predetermined movement of said operating means for releasing said latch, said operating means being subsequently operable to cause the opening of the closing contacts.

1,696,571. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 6, 1923. Serial No. 611,153. 2 Claims. (Cl. 200—150.)



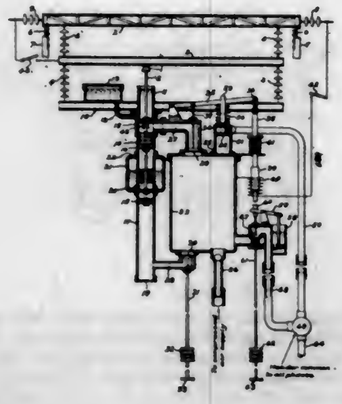
1. An electric switch comprising a closed tank containing an insulating liquid the level of which is spaced below the top of the tank, switch contacts adapted to be separated beneath the surface of said liquid, a baffle arranged above the level of the liquid and spaced below the top of the tank, a separating chamber arranged above the tank, and means for conducting gas and liquid from the vicinity of the contacts through the baffle and space above the liquid to the separating chamber.

1,696,572. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 2, 1924. Serial No. 684,003. 7 Claims. (Cl. 200—150.)



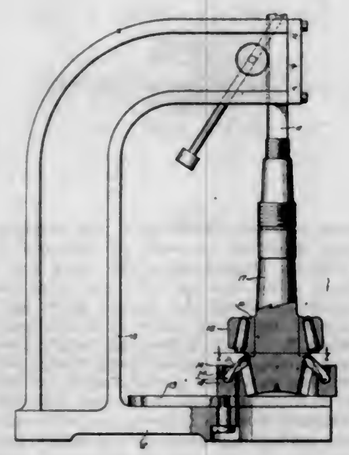
1. A high potential switch comprising an elevated supporting structure, stationary and movable cooperating contacts, fluid pressure actuated operating means therefor, flexible insulating means connected at its lower end with the movable contact and the operating means for freely suspending the same from said structure and means secured to the flexible insulating means at a point intermediate its ends for supporting the stationary contact.

1,696,573. ELECTRIC SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 27, 1924. Serial No. 716,271. 5 Claims. (Cl. 200—82.)



1. A multiphase switch comprising cooperating stationary and movable contacts, a separate fluid pressure operated contact actuating mechanism and a separate fluid pressure reservoir for each phase, a header connecting the mechanisms of the several phases, means for varying the pressure in said header and means responsive to pressure change therein for admitting pressure from each of the several reservoirs to the corresponding contact actuating mechanism.

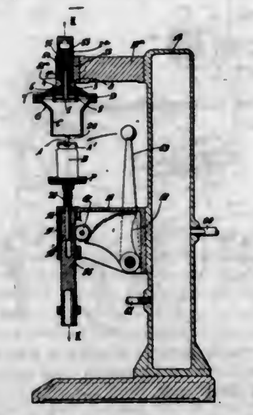
1,696,574. TOOL. JAMES W. HOWELL, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 17, 1926. Serial No. 148,858. 5 Claims. (Cl. 29—88.2.)



1. A tool comprising a body member having a circular groove in its upper face, there being an inwardly extending circumferential flange contiguous one of upper edges of said groove, and fingers within said groove retained therein by said flange.

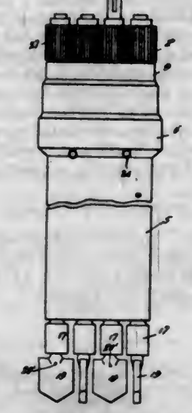


1,696,575. SEALING MACHINE. JOSEPH H. HUXLEY, Chelsea, and WILLIAM A. STEPHENS, Shepherds Bush, London, England. Filed Oct. 3, 1928, Serial No. 309,982, and in Great Britain May 5, 1927. 7 Claims. (Cl. 226—82.)



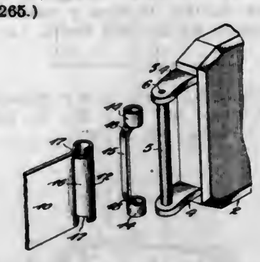
1. In a vacuum sealing machine comprising a sealing chest and a chamber separated therefrom by a flexible member carrying a presser member, separate valves for controlling the pressures in the chamber and in the chest, means for supplying containers to the chest, a gear means operating said supply means, and adjustable actuating means for said valves carried by said gear means.

1,696,576. STONE-CHANNELING MACHINE. CLYDE W. JONES, Bloomington, Ind. Filed July 26, 1927. Serial No. 208,626. 2 Claims. (Cl. 262—22.)



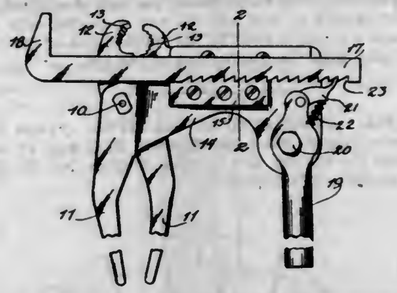
1. An apparatus of the class described comprising a casing, a plurality of shafts journaled in the casing longitudinally thereof and in spaced relation to each other, the lower ends of the shafts projecting beyond the lower end of the casing, said lower ends of the shafts being formed with longitudinal bores merging into transverse openings inwardly of the casing, the lower portions of the bores forming sockets, tools having shanks fitting into the sockets, said shanks being hollow and merging into lateral openings exteriorly of the sockets, pipes extending longitudinally of the casing between the shafts, and means in the casing communicating each pipe with the transverse openings in the shafts next adjacent, so that each pipe functions as a common supply for a plurality of the shafts and tools.

1,696,577. CONNECTER FOR WRIST-WATCH STRAP, BAND, OR BRACELET. CHARLES H. KESTENMAN, Providence, R. I., assignor to Kestenman Bros. Mfg. Co., Providence, R. I., a Corporation of Rhode Island. Filed Jan. 14, 1928. Serial No. 246,787. 6 Claims. (Cl. 24—265.)



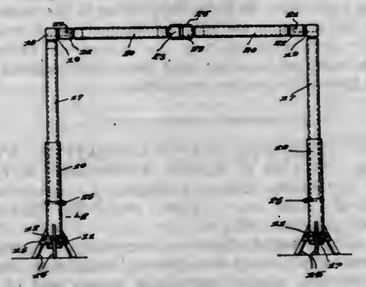
6. The combination of a wrist watch having a pair of lugs to receive a pin, a bracelet wrist band having a loop of a width less than the distance between said lugs, a pin extending through said loop and lugs to hold the loop in position and an end piece having means for mounting the same on said band and a portion positioned between said band loop and one of said lugs to limit lateral movement of the loop between said lugs.

1,696,578. TOOL FOR ASSEMBLING CHAIN LINKS. LEO W. LIPPERT, Chippewa Falls, Wis. Filed Jan. 5, 1928. Serial No. 244,685. 4 Claims. (Cl. 29—84.)



1. In combination, a pair of tongs having pivotally connected jaws, one of said jaws having a guide extension projecting from the jaw in a plane at right angles to the pivotal axis, an arm carried by said guide extension to move thereslong, and a third jaw carried by said arm to move across the end of an object gripped by said tongs.

1,696,579. GARMENT HANGER CONTINUOUS SUPPORT. WILLIAM E. MILLER, Yonkers, N. Y. Filed Jan. 31, 1928. Serial No. 250,839. 3 Claims. (Cl. 211—178.)

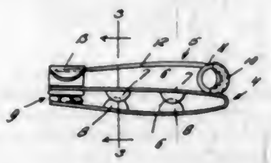


1. A device of the character described embodying tubular standards, telescopic members associated with said

standards, means for locking said members in extended position with respect to said standards, a pair of cross-pieces hingedly mounted with respect to said telescopic members and adapted to be swung to end abutting horizontal position and means for locking the free ends of said cross-pieces together to form a continuous alined horizontally disposed top for said device.

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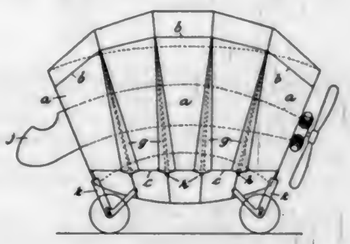
1,696,580. LINGERIE CLASP. LON P. MORGAN and MAE C. MORGAN, Chicago, Ill. Filed Apr. 19, 1928. Serial No. 271,246. 1 Claim. (Cl. 24—85.)



As a new product of manufacture, a fastener of the class described, comprising a clasp formed from a strip of resilient metal bent upon itself to provide spaced arms adapted to normally spring apart, the intermediate portions of the arms having retaining tongues struck out therefrom and into cooperative relationship, a snap fastener carried by the free end portions of said arms, a safety pin comprising a pin portion and retention coil, said coil being disposed adjacent one end of said clasp, a bracket carried by said one end and connected with said coil, and a keeper carried by the opposite end of the clasp cooperable with the pointed end of the pin.

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1,696,581. AERONAUTICAL MACHINE. JAMES ROBERTSON PORTER, Wantage, England. Filed Aug. 16, 1927. Serial No. 213,239, and in Great Britain Dec. 30, 1926. 10 Claims. (Cl. 244—21.)

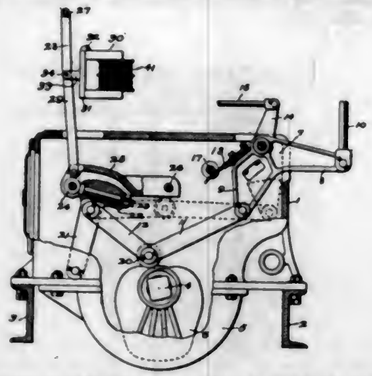


1. In an aeronautical machine of the type provided with a body having convex sides the combination of oppositely extending parachute surfaces conforming in the closed position to the shape of the sides of the body part, resilient extensible devices connecting the oppositely extending parachute surfaces together, and means for securing said resilient extensible devices in position.

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1,696,582. ELECTRIC-SWITCH-OPERATING MECHANISM. WILLIAM K. RANKIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 1, 1923. Serial No. 655,134. 3 Claims. (Cl. 200—89.)

1. An electric switch operating mechanism comprising a toggle mechanism, means for operating said mechanism, a switch actuating member connected to one end of said mechanism, a movable member connected to the opposite end of said mechanism for transmitting the end thrust thereof, a movable abutment for said movable member, said member and said abutment having cooperating faces disposed to cause the abutment to be displaced out of the path



of movement of said movable member, a toggle for preventing displacement of said abutment, and an electromagnet for controlling said toggle.

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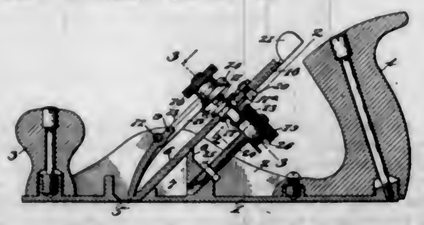
1,696,583. COUPLING FOR ELECTRIC CIRCUITS. HOWARD R. SARGENT and FRANK C. DE REAMER, Bridgeport, Conn., assignors to General Electric Company, a Corporation of New York. Filed May 10, 1927. Serial No. 190,323. 6 Claims. (Cl. 173—338.)



1. In combination with a socket, a plug, means in the socket for joining a wire with the plug through the socket, said means consisting of a lever in the form of a spring pivoted in the socket, one arm of the lever serving to connect with the wire, the other end of the lever serving to connect with the plug and a cap for the socket for clamping the wire against the spring and for producing a bias in the spring about the pivot to maintain the said other arm of the lever in proper position in the socket whereby the plug may be readily inserted and effective connection insured in the socket.

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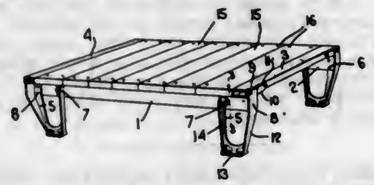
1,696,584. PLANE. WILBERT G. SCHWER, Sandusky, Ohio, assignor to Sandusky Tool Corporation, Sandusky, Ohio, a Corporation of Ohio. Filed Oct. 14, 1925. Serial No. 62,404. 11 Claims. (Cl. 145—5.)



1. In a plane, in combination, a plane body, a plane iron, the body having seats for the support of the iron, and means for securing the iron in position comprising a cap iron, the body having a fulcrum bearing for the cap iron, a stud having a flange and a fetaining nut mounted on the stud and also having a flange, one of said flanges bearing against the cap iron above said fulcrum bearing and the other bearing against the plane iron and the cap iron engaging the plane iron below said fulcrum bearing.



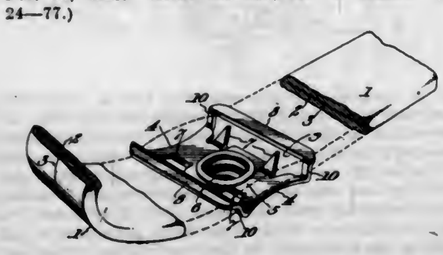
1,696,585. PLATFORM FOR USE WITH ELEVATING TRUCKS. FREDERICK J. SHEPARD, Jr., Auburndale, and NATHANIEL WARSHAW, Boston, Mass., assignors to Lewis-Shepard Company, Watertown, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1926. Serial No. 86,821. 5 Claims. (Cl. 248—41.)



5. A platform comprising a frame having side girders of angle iron with the horizontal members thereof extending respectively outwardly toward or to the edges of the platform, transverse end girders superimposed upon the ends of said side girders, integral U-shaped metallic legs each comprising a skeletonized web secured to the outside of the vertical member of a side girder adjacent the end thereof and at a distance therefrom and provided with a marginal reenforcing flange having an upper portion overlying the end of said side girder and secured to the end girder and a downwardly tapering portion inclined rearwardly with respect to the adjacent end of the platform and a portion providing a foot for the leg.
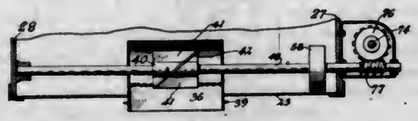
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1,696,586. FASTENER SLIDE. ERNEST D. SIMONS, Cheshire, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a Corporation of Connecticut. Filed Feb. 29, 1928. Serial No. 257,973. 2 Claims. (Cl. 24—77.)



1. A fastener slide, having side and end bars, a center bar spaced from the end bars to provide roomy slots for the substantially flat passage of a strap on which the slide is mounted, a fastener element on the center bar, and a plurality of upstanding prongs projecting from opposite sides of the center bar and in opposite directions and toward the opposite ends of the slide, so as to engage the strap whichever way the slide may be applied to the strap.

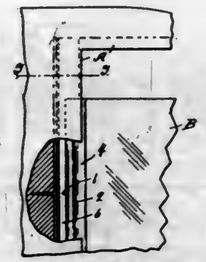
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1,696,587. STOKER. WILLIAM A. YARWOOD, Buffalo, N. Y. Filed Sept. 14, 1926. Serial No. 135,336. 3 Claims. (Cl. 110—115.)



1. A stoker comprising a delivery chamber having an inlet and an outlet for granular fuel, and a paddle wheel rotatable in said chamber and having a longitudinal blade adapted to throw the fuel stright ahead and two oblique blades which are arranged in the same plane and on opposite sides of the axis of rotation and are adapted to throw the fuel obliquely in opposite directions.

1,696,588. SLIDING WINDOW-GLASS SUPPORT. EDWIN W. M. BAILEY, Amesbury, Mass. Filed Apr. 3, 1924. Serial No. 703,934. 15 Claims. (Cl. 296—445.)



1. In combination with a slidable window glass plate and a window casing having oppositely disposed guide ways mounted therein, an edge molding for said plate consisting of a groove shaped strip of resilient sheet metal arranged to embrace the edge portion of the plate throughout its length and to provide oppositely disposed clamping members and an intermediate resilient portion for holding said members engaged with the sides of the plate, said resilient portion comprising a cylindrically shaped portion at the middle of the strip and an inwardly curved portion, forming oppositely disposed transversely concave external grooves between said cylindrically shaped portion and said clamping members, said guide ways having correspondingly formed faces slidably engaged with the surfaces of said resilient portion to guide the sheet in its sliding movements.

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1,696,589. WINDOW-GLASS CHANNEL. EDWIN W. M. BAILEY, Amesbury, Mass. Filed July 7, 1927. Serial No. 203,943. 6 Claims. (Cl. 296—44.5.)



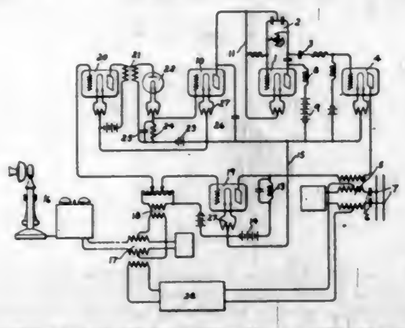
1. In combination with a casing, a sheet metal window glass channel composed of a base and two sides and having one or more tongues cut from each side and bent outward in position to project laterally therefrom adjacent the base and a guideway secured to the casing having oppositely disposed grooves arranged to receive said tongues.

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1,696,590. SIGNALING SYSTEM. LESTER F. BIRD, Irvington, N. J., assignor to General Electric Company, a Corporation of New York. Filed Oct. 21, 1927. Serial No. 227,821. 4 Claims. (Cl. 179—171.)

1. In a signaling system, an electron discharge oscillator, an electron discharge device connected in the anode-

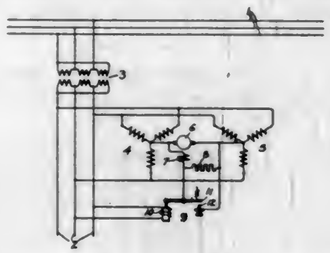
cathode circuit of said oscillator and having impedance sufficiently high normally to prevent the production of oscillations by said oscillator, a source of signal current, means for rectifying said signal current and means for



supplying a potential resulting from rectification of said signaling currents to said discharge device to reduce the impedance thereof and thereby to control the operation of said oscillator.

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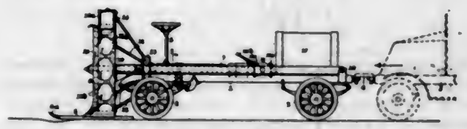
1,696,591. SYSTEM OF DISTRIBUTION. LOUIS F. BLUME, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed June 29, 1927. Serial No. 202,450. 7 Claims. (Cl. 172—246.)



1. In combination, an alternating current circuit, inductive means comprising a plurality of polyphase magnetic core-type inductive devices having interconnected electrical neutrals and connected in parallel with said circuit, an independent source of electrical energy for controlling the degree of saturation of said inductive means, and means for controlling an electrical characteristic of said independent source in accordance with an electrical characteristic of said alternating current circuit.

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1,696,592. SNOW-REMOVING MACHINE. THOMAS CARLESS, Haledon, N. J. Filed Aug. 19, 1926. Serial No. 130,193. 5 Claims. (Cl. 37—43.)

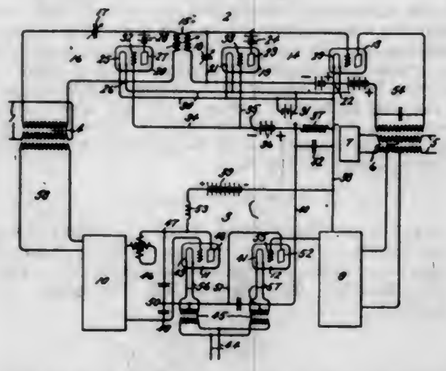


1. A machine of the class described including a portable supporting means, an ejector rotatable on a fore and aft axis therein, a casing open at the front and housing the ejector and having a lateral delivery opening, and an inverted trough-like deflector exterior of the casing including a deflecting wall sloping gradually downwardly from approximately the top of said opening, said deflector having its lateral edges normally resting on the casing.

4. A plowing machine comprising a dirigible vehicle having front and rear wheels, a structure pivotally and freely movable up and down with respect to the vehicle and including, with a portion ahead of the vehicle having runner means to travel on the ground, a relatively long shank rigidly projecting rearward from said portion and pivoted to the vehicle on a transverse substantially horizontal axis at the rear part of the vehicle, said vehicle having forward means to guide said structure up and down, and ejector means movable in said structure ahead of the vehicle, said portion and runner means together forming a plow proper and such plow proper being close to the front wheels of the vehicle and having its front-to-rear dimension a relatively small extent of the front-to-rear dimension of the machine.

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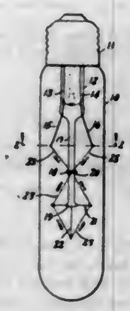
1,696,593. HIGH-FREQUENCY SIGNALING SYSTEM. EMMETT F. CARTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 14, 1927. Serial No. 161,189. 16 Claims. (Cl. 179—15.)



1. In a signaling system employing both a transmitting circuit and a receiving circuit, means for protecting said receiving circuit from said transmitting circuit, said means comprising an electron discharge device having an anode, a cathode and a control element, said anode being associated with one side of said receiving circuit, said cathode being associated with the other side of said receiving circuit and a source of potential which is variable responsively to the functioning of said transmitting circuit, said control element being associated with said source of potential.

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1,696,594. ELECTRIC INCANDESCENT LAMP. PAUL O. CARTUN, Cleveland Heights, Ohio, assignor to General Electric Company, a Corporation of New York. Filed June 9, 1925. Serial No. 36,053. 2 Claims. (Cl. 176—39.)



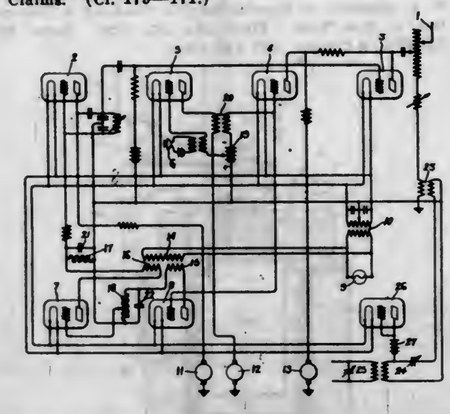
1. In an electric incandescent lamp comprising a base and a bulb, the combination of a stem sealed into said bulb



at the base end thereof, a rod extending longitudinally of said bulb and united to the said stem, a pair of leading-in wires extending through said stem and having their ends located adjacent to the junction between said stem and rod, a pair of support wires extending in opposite directions from said rod at an intermediate point thereof and in a plane substantially normal to that of said leading-in wires, another support wire extending from the end of said rod longitudinally thereof, and a filament draped so as to have substantially straight portions extending from each of the ends of said leading-in wires through the ends of the first-mentioned support wires, and having a portion also engaged by said longitudinally extending support wire.

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1,696,595. HIGH-FREQUENCY DUPLEX SIGNALING SYSTEM. EMMETT F. CARTER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Jan. 27, 1925. Serial No. 5,148. 8 Claims. (Cl. 179—171.)



1. In a transmitting apparatus for a high frequency signaling system comprising an electron discharge oscillator, a control device for said oscillator comprising means for normally providing a negative bias on the grid of said oscillator sufficient to prevent the production of oscillations and means responsive to an audio frequency signaling current for reducing the negative bias to a value at which oscillations will be produced, the bias potential being sufficiently smoothed substantially to prevent modulation by voice currents of the oscillations produced.

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1,696,596. RESISTANCE UNIT. CHRISTIAN DANTSIZEN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Apr. 5, 1926. Serial No. 99,778. 4 Claims. (Cl. 201—76.)

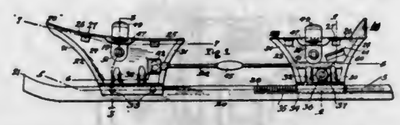


1. A method of constructing a resistance unit which comprises etching the surface of a rod of vitreous material, sealing conductors into the ends of the rod, applying a conducting coating to a portion of said conductors and to the ends of said rod, and drawing one or more conducting lines on the roughened vitreous surface to electrically connect said conducting coatings.

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1,696,597. ICE SKATE. ALAN R. FERGUSSON, Buffalo, N. Y., assignor to A. R. Fergusson Mfg. Corp., Buffalo, N. Y., a Corporation of New York. Filed Jan. 18, 1927. Serial No. 161,920. 14 Claims. (Cl. 208—167.)

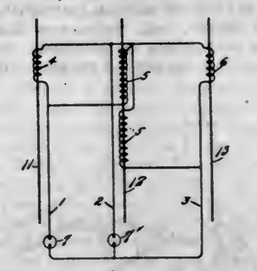
1. An ice skate comprising a runner, shoe supporting means including L-shaped members having vertical parts engaging their lower ends with opposite sides of the runner and horizontal parts projecting laterally from the upper ends of said vertical parts, said horizontal parts being provided at their outer ends with downwardly pro-



jecting guide ears, and means for clamping the shoe to said supporting means including clamping bars guided in said ears and provided at their outer ends with jaws adapted to engage opposite sides of the shoe, and adjusting means connecting said bars.

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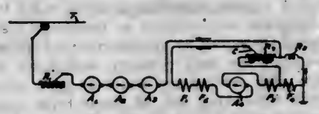
1,696,598. PROTECTIVE SYSTEM. ALAN STEWART FITZ GERALD, London, England, assignor to General Electric Company, a Corporation of New York. Filed Apr. 19, 1922, Serial No. 555,620, and in Great Britain Apr. 22, 1921. 5 Claims. (Cl. 175—294.)



1. In a protective arrangement for a three phase alternating current system, current transforming means in each of the three conductors of the system, a secondary circuit including the secondaries of the current transforming means in two of said conductors interconnected with the secondaries of the current transforming means in one of said conductors and the third conductor and arranged to tend to circulate a current in said circuit, a device connected to be responsive to the current in said circuit for protection against phase faults, and a device connected across said secondary circuit to be responsive to the difference in current between conductors of said system for protection against ground faults.

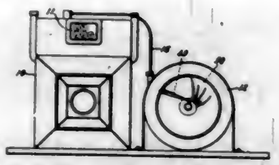
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1,696,599. REGENERATIVE BRAKING. PETER W. FORSBERG, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 3, 1925. Serial No. 66,620. 3 Claims. (Cl. 172—179.)



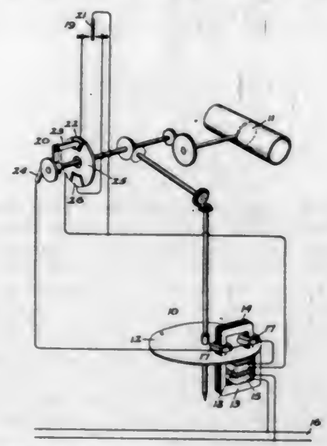
1. A regenerative braking system comprising a plurality of dynamo electric machines, a resistor connected so that one portion of the armatures of said machines and the said resistor form a braking circuit and another portion of the armatures of the machines and the field windings of all the machines and the said resistor form an excitation circuit, the said resistor having an appreciable inductance whereby sudden variations in the current in the braking circuit induce variations in the current in the exciting circuit in the opposite direction and in accordance with the rate of variation of the braking current.

1,696,600. DEMAND-METER ATTACHMENT FOR FLUID METERS. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Feb. 11, 1925. Serial No. 8,553. 1 Claim. (Cl. 234—5.5.)



In a meter installation, an oscillating arm, a ratchet wheel and a mechanical driving connection between said arm and wheel comprising a ratchet lever and pawl for said ratchet wheel, a tube extending from the proximity of said arm to the proximity of said lever, a flexible rod extending through said tube adapted to be moved back and forth through said tube by the oscillations of said arm and a lost motion driving connection between said rod and ratchet lever.

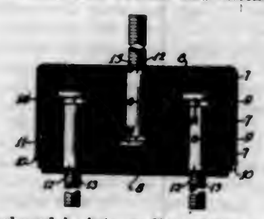
1,696,601. SYSTEM OF MOTOR CONTROL. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Sept. 13, 1926. Serial No. 134,993. 3 Claims. (Cl. 172—278.)



1. In combination, an electric induction motor having an induction disc armature, a magnetic field structure located on one side of said disc armature having a primary winding thereon connectible permanently to a relatively high voltage source of supply, a second winding on said field structure, a cooperating magnetic field structure located on the opposite side of said disc armature and having a polar winding thereon arranged to be included in a local circuit and supplied with current at relatively low voltage from said second winding by transformer action with said primary winding, the said primary and polar windings being provided for setting up fluxes in said cooperating magnetic field structures out of phase with each other which co-operate with said induction disc armature to effect rotation thereof, and controlling means for establishing and interrupting the local circuit for said polar winding to effect starting and stopping of said motor.

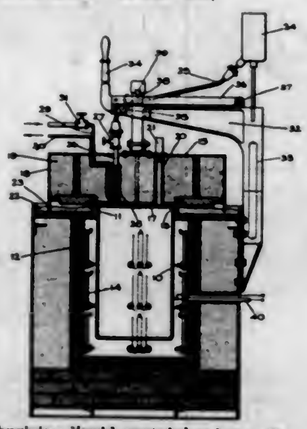
1,696,602. MOUNTING MEANS FOR VEHICLE ENGINES. DELMER S. HARDER and FRANK W. VROOMAN, Oakland, Calif., assignors to Durant Motor Co., Oakland, Calif., a Corporation of California. Filed Nov. 19, 1925. Serial No. 70,087. 4 Claims. (Cl. 180—64.)

1. Vibration absorbing means of the character described, comprising strata of rubber-like material alternating with sheets of rigid material, and vertical fastening members projecting from top and bottom and extending inwardly



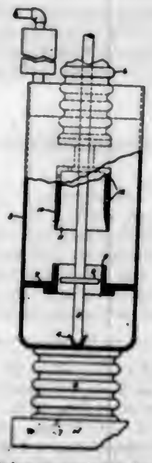
and being anchored in intermediate rigid sheets so as not to interfere with vertical movement of the rubber-like strata.

1,696,603. CARBURIZATION OF METALS. GEORGE W. HEBEL, Schenectady, and GERALD R. BROPHY, Niskayuna, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Aug. 26, 1926. Serial No. 131,772. 8 Claims. (Cl. 148—30.)



4. A carburizing liquid containing bone oil.

1,696,604. FLUID-BREAK SWITCH. JOHN D. HILLIARD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Original application filed Mar. 30, 1922, Serial No. 548,155. Divided and this application filed July 1, 1925. Serial No. 40,937. 6 Claims. (Cl. 200—150.)



1. A switch comprising a casing adapted to contain insulating liquid, a fixed contact mounted at one end of the casing, a contact rod mounted to slide in the opposite end of the casing and having an enlarged intermediate portion, and a partition in the casing having a cylindrical opening for receiving the enlarged portion of the contact rod.

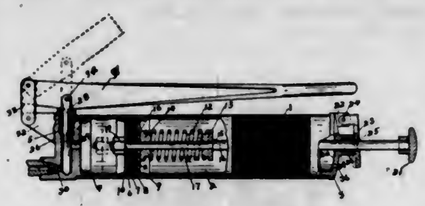


1,696,605. COMBINED RESISTOR AND FUSE. HERBERT P. HOLLNAGEL, Swampscott, Mass., assignor to General Electric Company, a Corporation of New York. Filed Jan. 6, 1926. Serial No. 79,683. 4 Claims. (Cl. 200—120.)



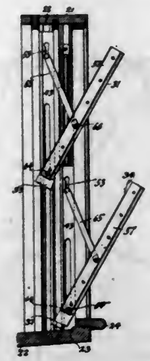
1. The combination of an electric fuse, spaced metallic vanes, and a reversely wound resistance coil connected in series with said fuse and having its convolutions distributed in the spaces between said vanes.

1,696,606. BOOSTER GREASE GUN AND METHOD OF GREASING BEARINGS. WALTER F. HUNDEMER, Alameda, Calif., assignor to Gat Gun Lubricating Corporation, Oakland, Calif., a Corporation of California. Filed June 1, 1925. Serial No. 33,998. 1 Claim. (Cl. 221—47.3.)



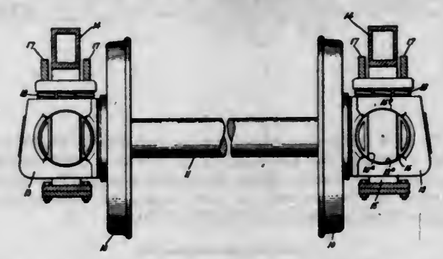
In combination, a cylinder adapted to contain grease and having a booster pump associated with the front end thereof, a head on the rear end of the cylinder and provided with a breathing aperture, a rod extending slidably through said head into the cylinder, a piston slidable on said rod and comprising a pair of flexible cups in back-to-back relation, an abutment on said rod, a coiled spring having its ends bearing respectively on said abutment and on the piston so as to urge the latter forwardly, and a locking means for the rod associated with the rear end of the cylinder, said locking means being arranged to allow the rod to be pushed forwardly but to resist rearward movement of the rod, and comprising a lever having one end pivoted to said head, extending transversely thereof, and provided with an aperture which receives the piston rod, a spring urging the free end of said lever rearwardly, and a cup on said head housing said last mentioned spring.

1,696,607. REVERSIBLE WINDOW. ROBERT E. HYBERT, Buffalo, N. Y., assignor of one-half to Edwin R. Dempsey, New York, N. Y. Filed Sept. 12, 1924. Serial No. 737,406. 9 Claims. (Cl. 20—49.)



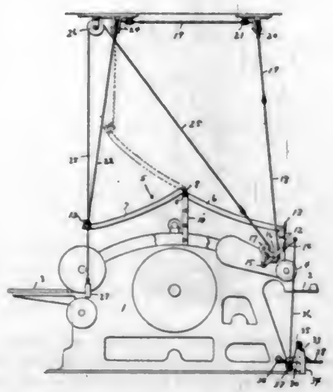
1. A window comprising a frame having vertical stiles on its opposite sides, mounting bars arranged in front of the stiles of said frame and each provided on its lower end with a vertical sash guide slot and on its upper end with a brace guide slot having a narrow lower part and an enlarged upper end and a vertical weather channel at its outer edge which opens inwardly, a sash arranged within said frame, weather strips arranged on opposite vertical edges of said sash and each having an outwardly projecting outer edge forming a vertical fin which is adapted in the normal position of the sash to engage with the respective channel, pivot pins arranged on the lower parts of the weather strips and engaging with said sash guide slots, brace bars adapted normally to be arranged between the weather strips and said mounting bars and each pivotally connected at its lower end with the central part of the adjacent weather strip, and coupling pins arranged at the upper ends of the brace bars and each having a reduced neck adapted to move in the brace guide slots of one of said mounting bars and an enlarged head adapted to engage with the rear side of said mounting bar and to pass through the enlarged upper end of the brace guide slot.

1,696,608. RAILWAY TRUCK. OLE K. KJOLSETH, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 12, 1927. Serial No. 212,591. 1 Claim. (Cl. 105—223.)



A locomotive or car truck comprising wheels and wheel axles, boxes for receiving the journals of said wheel axles, side frames having pedestal yokes extending about said boxes, means including springs for supporting said side frames on said boxes, said boxes having cylindrical recesses therein, cylindrical guide members extending into the recesses in said boxes and having a grooved portion projecting therebeyond, said pedestal yokes being arranged to slidably engage the grooves in said guide members so as to permit tilting of said frame transversely relative to said axles.

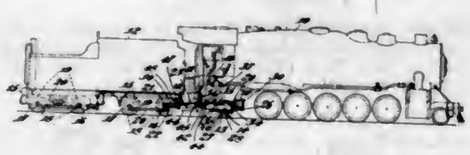
1,696,609. CLOTHES RETURNER FOR IRONING MACHINES. ARCADE MARCOUX, New Bedford, Mass. Filed Mar. 22, 1928. Serial No. 263,675. 4 Claims. (Cl. 68—9.)



1. In combination with an ironing machine, a clothes receiving unit mounted thereon, said unit including a stationary downwardly inclined front section, a vertically swinging rear section, and means for tilting the rear section to an operative position with respect to the forward section, whereby the clothes placed on the rear section will, by gravity, be delivered to the front of the machine.

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1,696,610. AUXILIARY LOCOMOTIVE. RICHARD J. MCCARTY, Jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Filed Apr. 19, 1926. Serial No. 102,916. 10 Claims. (Cl. 105—48.)

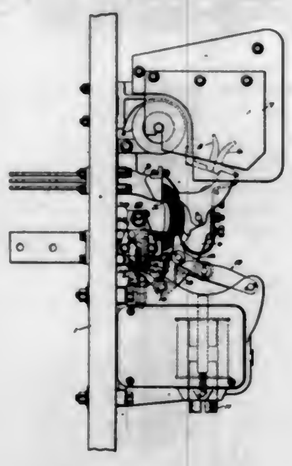


2. In a locomotive arrangement including a locomotive and a tender, the combination of a tender truck having wheeled load-bearing axles, an auxiliary propulsion motor carried by the locomotive, and means for transmitting motion from the motor to one of said axles.

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1,696,611. PROTECTIVE DEVICE. GORDON R. MCDONALD, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 28, 1925, Serial No. 33,584. Renewed Sept. 5, 1928. 5 Claims. (Cl. 175—336.)

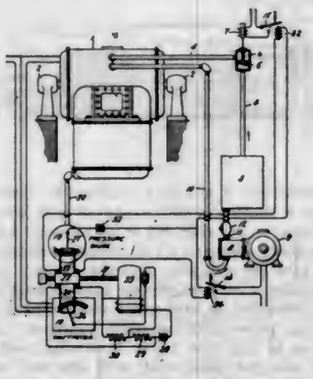
1. In combination with a circuit breaker and a latching mechanism for holding the circuit breaker closed, means for releasing the latching mechanism on the occurrence of abnormal circuit conditions comprising an armature having a portion arranged on movement of the armature in one direction to engage the latching mechanism whereby to release the same, an energizing winding, a magnetizable member comprising two branches arranged to form parallel magnetic paths for the flux through the armature, one of said branches being arranged magnetically to saturate on the occurrence of a slowly increasing continuous current in said winding whereby to effect movement of the armature in said direction when the



current has reached a predetermined value, and means for effecting movement of the armature in said direction on the occurrence of a rapidly increasing continuous current in said winding before the current reaches said predetermined value comprising a closed circuit winding on the branch arranged to saturate for controlling the distribution of the flux of said member in the branches thereof.

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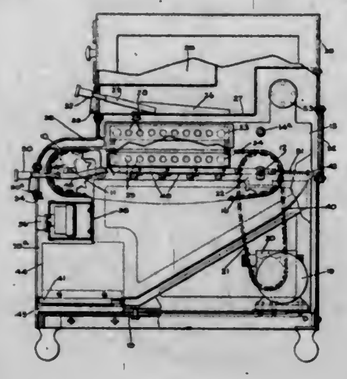
1,696,612. COOLING SYSTEM FOR DYNAMO-ELECTRIC MACHINES. CHESTER W. RICE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 17, 1925. Serial No. 63,153. 5 Claims. (Cl. 171—252.)



1. In combination, a dynamo electric machine comprising a closed casing, means for circulating a cooling gas therethrough, and means responsive to a decrease in load on the machine for withdrawing a portion of the gas to lower the pressure in said casing.



1,696,613. TOASTER. JACOB L. SHROYER, Oak Park, Ill., assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill., a Corporation of New York. Filed Aug. 16, 1926. Serial No. 129,336. 11 Claims. (Cl. 126—41.)



1. A toaster comprising a conveyor, means for driving said conveyor, heating means for toasting a slice of bread as it is moved on said conveyor from one end to the other, and means at the discharge end of said conveyor for receiving the toast and for returning the toast to the starting end of said conveyor.

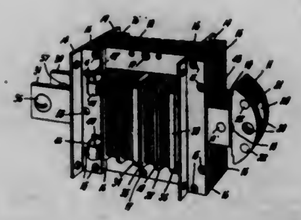
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1,696,614. HEAT-RESISTANT COMPOSITION SUITABLE FOR ARC DEFLECTORS. WILLARD R. STEELE, Scotia, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 20, 1926. Serial No. 110,465. 11 Claims. (Cl. 106—9.)

11. A composition of matter containing about 65% zirconia, about 5% slaked lime, and about 30% asbestos.

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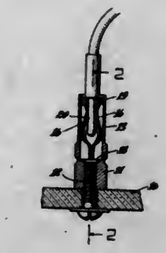
1,696,615. ELECTROMAGNET. PANFILO TROMBETTA, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 9, 1927. Serial No. 189,878. 24 Claims. (Cl. 175—338.)



1. An alternating current electromagnet comprising magnetizing windings, relatively movable magnetic members operable into engagement under the influence of said windings, said members having engaging surfaces of such shape that the engaging surface of one member is enveloped within the engaging surface of the other member, and a pole shading winding located on one of said members so as to encircle the enveloped and enveloping engaging surfaces of said members.



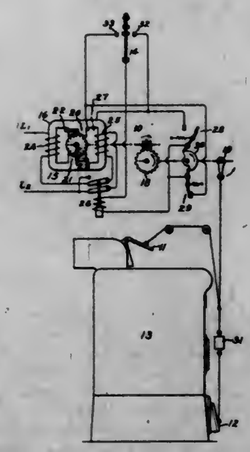
1,696,616. BINDING POST. FREDERICK CHARLES WAPPLER, New York, N. Y. Filed Mar. 16, 1927. Serial No. 175,688. 8 Claims. (Cl. 173—363.)



6. In a binding post, a tube, and a set of complementary clamping members therein; each clamping member comprising a longitudinally arranged resilient tongue narrow enough to permit transverse adjustment thereof, and a non-resilient rear end; said rear ends being of such widths, with respect to the inside tube diameter that when the clamping members are mutually associated in operative relationship said ends may be frictionally jammed into and retained in said tube.

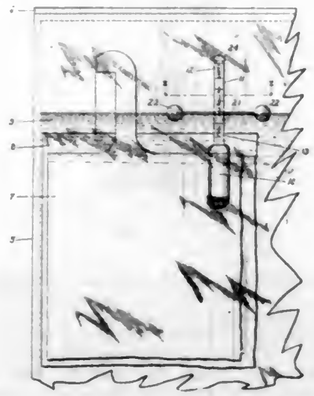
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1,696,617. ELECTRORESPONSIVE CONTROLLING DEVICE. ALFRED F. WELCH, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Mar. 29, 1927. Serial No. 179,231. 13 Claims. (Cl. 172—239.)



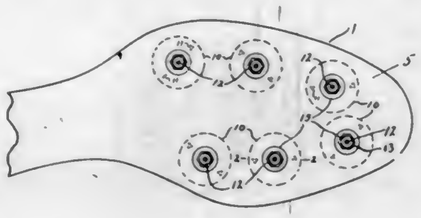
1. An alternating current electroresponsive controlling device comprising an induction motor having a short-circuited rotatable armature and a normally energized magnetic field structure having pole adjacent said armature and providing a closed flux path independent of said armature to prevent inducing operating current therein, and means comprising a winding associated with said magnetic structure for forcing the field flux through said poles into inductive relation with the armature, and pole shading windings associated with said poles to effect rotation of the armature.

1,696,618. HYDROMETER DEVICE. SAMUEL P. WILBUR, Toledo, Ohio, assignor, by mesne assignments, to U S L Battery Corporation, a Corporation of New York. Filed May 26, 1920. Serial No. 384,405. Renewed Jan. 16, 1928. 9 Claims. (Cl. 265—45.)



1. In combination a specific gravity responsive device having a vertically projecting stem, said stem having a zone of a distinctive appearance, a float adapted to cooperate with said stem and present a contrast with said zone.

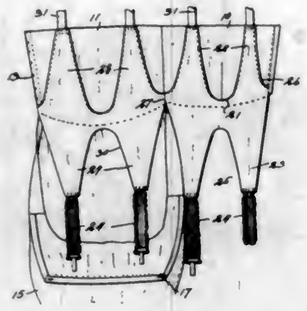
1,696,619. SPIKE BASE FOR ATHLETIC SHOES. GEORGE WESTBROOK BELL, Galt, Ontario, Canada, assignor to Messrs. Getty and Scott Limited, Galt, Ontario, Canada. Filed Sept. 13, 1927. Serial No. 219,284. 1 Claim. (Cl. 36—59.)



In an athletic shoe, in combination, an outsole formed of two superimposed layers, aligned orifices in said layers, a spike base comprising an internally threaded sleeve, a flange projecting outwardly from the periphery thereof and positioned intermediately of the length of the sleeve, the plane of the flange being perpendicular to the axis of the sleeve, said base mounted within the outsole so that the flange lies between the two layers thereof and the sleeve extends into the aforesaid aligned orifices in the two layers of the outsole, the ends of the sleeve being flush with the top and bottom faces of the outsole.

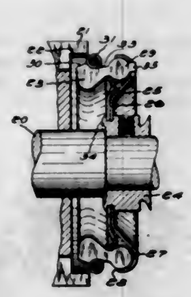
1,696,620. COMBINATION GARMENT. HAZEL E. BREWER, Seattle, Wash. Filed Dec. 15, 1927. Serial No. 240,261. 2 Claims. (Cl. 2—78.)

2. A body garment comprising a waist portion constituting a brassière and terminating at the waist, bloomers attached to the waist portion and having a seat section partly separated at the sides from the front of the bloomers and entirely separated at the top from the waist section, and suspender elements attached to the inside of the front and back of the waist and having a width at the waist line equal to the waist line of the waist, said suspender elements being formed to provide two upwardly extending webs for the front section and two upwardly extending webs for the back section of the waist, the webs being stitched to the waist throughout their entire extent, said suspender elements being further



formed to provide two pairs of depending webs, one pair at the front and one at the back of the waist, the webs of each pair being separated from each other by a cut-away portion, the cut-away portion between the rear webs being shorter than the cut-away portions between the front webs whereby the seat of the bloomers may overlap the suspending element at the rear of the waist.

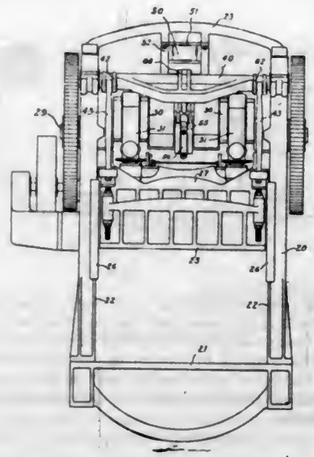
1,696,621. CENTRIFUGAL SWITCH. HERBERT L. BRUMP, Dayton, Ohio, assignor to The Day-Fan Electric Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 7, 1924. Serial No. 730,717. 14 Claims. (Cl. 172—279.)



12. In a short circuiter for motors, a series of oscillatory arms arranged in annular series in proximity to the lateral face of the motor commutator and subject to oscillation by centrifugal influence radially in relation with the axis of rotation of the commutator, a fulcrum mounting for the arms located in fixed spaced relation with the commutator, and an annular spring band circumferentially surrounding the annular series of oscillatory arms, and capable of shifting movement thereon, relative to their fulcrums to vary the yielding resistance of the spring member as said arms swing outward against the tension of said spring member under centrifugal influence to effect the electrical interconnection of said bars one with another.

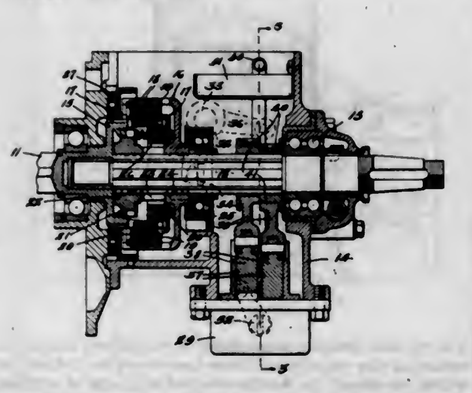


1,696,622. TOGGLE PRESS. ARTHUR A. BYERLEIN, Detroit, Mich. Filed Apr. 3, 1926. Serial No. 99,585. 15 Claims. (Cl. 113—38.)



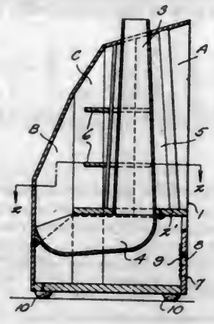
1. A drawing press comprising a frame, a plunger, and a blank holder, and means provided at the transverse center of the press for reciprocating said blank holder with a dwell in its movement, said means comprising an actuating member guided to slide back and forth in a direction inclined to the direction of movement of said blank holder, and a driving connection between said actuating member and said blank holder.

1,696,623. MOTION-TRANSMITTING MECHANISM. GEORGE C. CARHART, Syracuse, N. Y., assignor to Brown-Lipe Gear Company, Syracuse, N. Y., a Corporation of New York. Filed May 28, 1926. Serial No. 112,359. 6 Claims. (Cl. 192—85.)



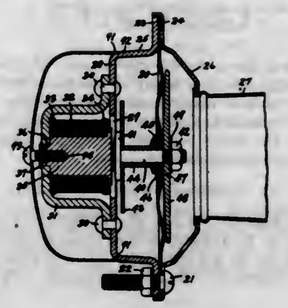
2. In a motion transmitting mechanism, the combination of driving and driven shafts, a normally engaged clutch connecting the shafts including a shiftable section, a housing enclosing the clutch sections, and having an oil reservoir, one of the shafts extending into the housing, a pump in the housing connected to the reservoir and including a movable member, connections located in the housing between the movable pump member and one of the shafts, a hydraulic motor located in the housing and connected to the pump to receive oil therefrom, connections between the motor and shiftable clutch section, an outlet leading from the motor, and an operator-controlled, normally-open valve in said outlet.

1,696,624. SOUND AMPLIFIER. NATHANIEL A. CLARK, Clinton, Iowa. Filed Sept. 9, 1927. Serial No. 218,523. 3 Claims. (Cl. 181—27.)



1. A device of the class described comprising a casing having a rear section of little width with a flaring front section, the front of which is open, conducting means for conducting the sound waves from the top of the casing into the rear section and horizontally arranged deflector plates in the flaring front section.

1,696,625. SOUND SIGNAL. ROBERT M. CRITCHFIELD, Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio, a Corporation of Delaware. Filed May 28, 1926. Serial No. 112,269. 5 Claims. (Cl. 177—7.)

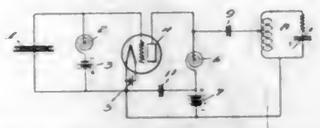


4. A signal device comprising in combination, a frame including an apertured, magnetizable plate; an electromagnet frame mounted on said plate; a core supported by said frame and magnetically connected with the plate and having a surface facing the aperture in the plate; a winding about the core; a diaphragm supported by the frame, in spaced relation to the plate; an armature carried by the diaphragm so as to be coaxial of the core and so that one surface thereof lies adjacent the surface of the core facing the apertures in the plate, one of said adjacent surfaces being provided with a protuberant portion adjacent the inner surface, to concentrate the magnetic flux passing from one to the other within a region concentric with respect to the mutual axis of the core and armature; and a magnetizable flange extending from the armature beyond the edge of but in spaced relation to the aperture in the plate.

1,696,626. CONTROL CIRCUIT FOR ELECTRON TUBES. ALFRED CROSSLEY, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Apr. 30, 1925. Serial No. 26,968. 3 Claims. (Cl. 250—36.)

1. In a piezo electric crystal oscillating circuit, a crystal, a pair of metal contact plates on each side thereof, said

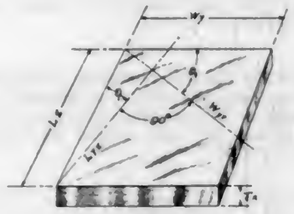
plates being connected respectively to the grid and filament terminals of a vacuum tube, a choke coil, one end of which is connected to the negative terminal of a source of potential and so arranged that the opposite terminal of choke coil is connected to the grid of the vacuum tube while the posi-



tive terminal of said source of potential is connected direct to the filament of said tube, and a plate oscillating system which comprises the plate of the vacuum tube, a choke coil, a radio frequency by-pass condenser, a high potential source and a resonant circuit consisting of an inductance, a capacity and a resistance.

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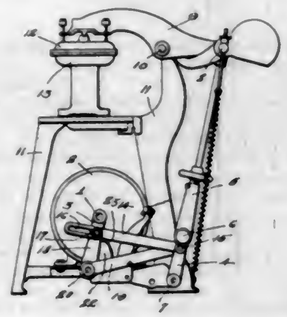
1,696,627. PIEZO-ELECTRIC CRYSTAL. ALFRED CROSSLEY, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1925. Serial No. 62,200. 5 Claims. (Cl. 171—327.)



1. An off angle piezo electric quartz crystal comprising a parallelopiped having a pair of its sides cut at an angle to the optical axis thereof and the other pair of its sides ground to a dimension directly proportional to the cosine function of the angle between the optical axis and one of said first mentioned sides.

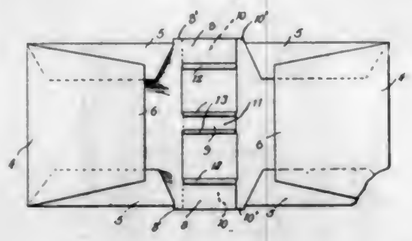
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1,696,628. MECHANICAL MOVEMENT. ERNEST DAVIS, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Jan. 6, 1927. Serial No. 159,281. 5 Claims. (Cl. 74—14.)



1. A mechanical movement comprising a prime mover movable about an axis and having a crank associated therewith and a driven element, a reciprocable link connecting the crank and the driven element and additional connections between the prime mover and the driven element, a cam to actuate the latter when the crank is at the end of its throw, the additional connection having a follower arranged to be brought into engagement with the cam when the crank approaches the end of its effective throw.

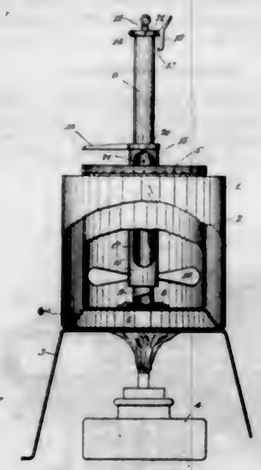
1,696,629. BOOK-COVER FILE. GRACE LEE FENNO, Palos Park, Ill. Filed Apr. 16, 1928. Serial No. 270,449. 3 Claims. (Cl. 281—34.)



2. A book cover comprising cover sections adapted to fit upon the backs of a book and having tongues projecting from their inner side edges to extend across the binding of the book, the tongues of one cover section overlying the tongues of the other cover section and secured thereto and having marginal portions folded to embrace the same and secured thereto.

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1,696,630. DIRECT-READING VISCOSIMETER. FRANCIS ELLERY FITCH, Philadelphia, Pa., and MAYSON WHITE TORBET, Jackson, Mich. Filed July 15, 1924. Serial No. 726,191. 9 Claims. (Cl. 265—11.)

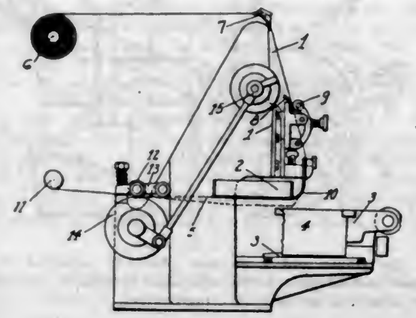


4. A viscosimeter comprising a propeller, means for mounting the propeller to have free rotary movement and bodily movement in the direction of the axis of rotation, means for limiting the extent of axial movement and means for indicating the extent of rotary movement relatively to a definite point of reference.

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1,696,631. SHOE-ORNAMENTING MACHINERY. BENJAMIN W. FREEMAN, Cincinnati, Ohio. Filed May 29, 1926. Serial No. 112,708. 13 Claims. (Cl. 164—93.)

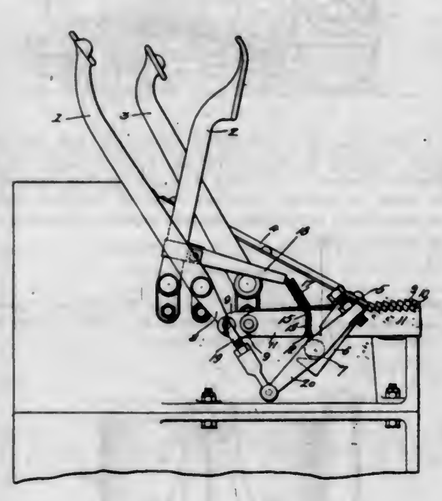
1. In combination with a shoe ornamenting machine having cutting instrumentalities, having a reciprocating platen and having work receiving space therebetween, a backing web, a support on which said web is mounted, means for advancing said web with such relation to said work receiving space as to provide a fresh backing surface for the cutting instrumentalities in each successive cutting operation, and means effective only during the return stroke of said



platen for transporting from said work space to a position clear of the work the excess of said web carried into said work space by the downward movement of said platen.

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1,696,632. POWER-TRANSMISSION DEVICE. WILLIAM HENRY, Philadelphia, Pa. Filed Apr. 23, 1927. Serial No. 186,052. 5 Claims. (Cl. 74—81.)



1. In a power transmission device, the combination with a pivoted clutch lever adapted normally to be retained resiliently in a retracted position, of a plurality of notched levers pivotally attached to said clutch lever, and a relatively fixed abutment adapted to engage in said notches whereby the clutch lever is retained in an advanced position, the notches in each of said levers being staggered with respect to the notches of the other levers whereby the levers are effective individually to retain the said clutch lever in the advanced position.

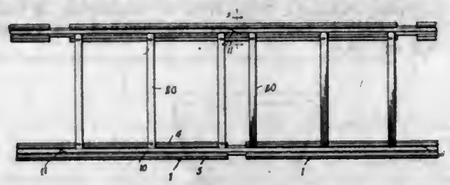
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1,696,633. RAILWAY TRACK. JOEL D. HUGHES, Roseberry, Idaho. Filed Dec. 7, 1927. Serial No. 238,439. 3 Claims. (Cl. 238—26.)

1. A railway track comprising a series of alined sills, said sills having vertically disposed laterally spaced



flanges carried thereby, rails disposed between the flanges and engaged upon the sills, said flanges being provided



respectively, with grooves and terminal flanges, and clamping members engaged with the webs of the rails and terminal flanges.

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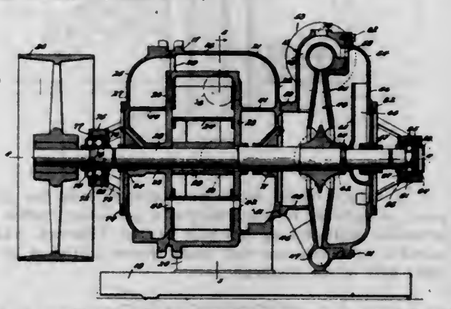
1,696,634. SPARK PLUG. CARL JOHAN ELIGIUS ISAKSSON, Spanga, Sweden, assignor of one-half to Hugo Theodore Tillquist, Stockholm, Sweden. Filed Aug. 13, 1925, Serial No. 50,102, and in Sweden May 22, 1925. 1 Claim. (Cl. 123—169.)



A spark plug comprising a metal sleeve adapted to be screwed into the cylinder head of an engine, an insulated body positioned within said sleeve forming a chamber therebetween, a flange formed with the lower end of said metal sleeve having a concentric opening therein through which passes the lower end of said insulated body, electrodes carried by the lower ends of said insulated body and metal sleeve, and said flange having an eccentrically positioned opening therein communicating with said chamber and arranged in vertical alignment with said electrodes.

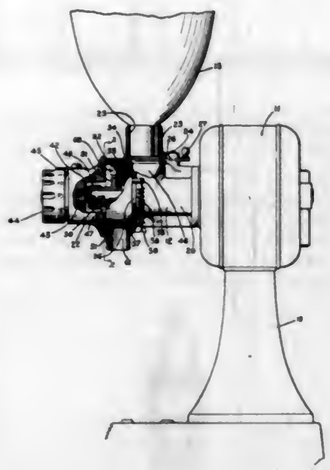
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1,696,635. AIR AND WATER PUMP IN COMBINATION. IRVING C. JENNINGS, South Norwalk, Conn., assignor to Nash Engineering Company, South Norwalk, Conn., a Corporation of Connecticut. Filed July 9, 1923, Serial No. 650,519. Renewed Apr. 12, 1928. 21 Claims. (Cl. 103—4.)



1. A combined unit for installation in a gas and liquid system which requires gas and liquid to be simultaneously pumped, comprising in combination, a rotary gas pump, a rotary liquid pump, separate housings for each of said pumps, means for removably connecting said housings respectively to said system, said housings being provided with mating surfaces whereby said housings may be removably and directly secured together end to end, permitting the housings to be separated and another gas or liquid pump substituted, and a common shaft for both of said pumps, whereas both of said pumps operate at the same speed.

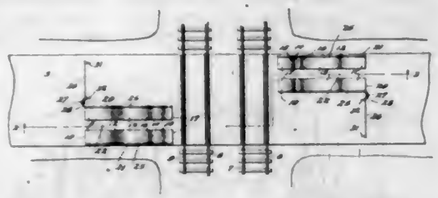
**1,696,636. GRINDING APPARATUS.** HERBERT L. JOHNSTON, Troy, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio. Filed Aug. 1, 1927. Serial No. 209,915. 9 Claims. (Cl. 83—18.)



1. In a machine of the class described, a casing, grinding means in said casing, a motor for operating said grinding means, said casing having a discharge orifice normally closed against the insertion of the operator's finger, and means actuated upon initial grinding action of said grinding means for opening said discharge orifice.

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**1,696,637. SAFETY ARRANGEMENT FOR RAILROAD CROSSINGS.** GEORGE E. JORDAN, Perry, Ga. Filed May 1, 1928. Serial No. 274,287. 10 Claims. (Cl. 238—3.)

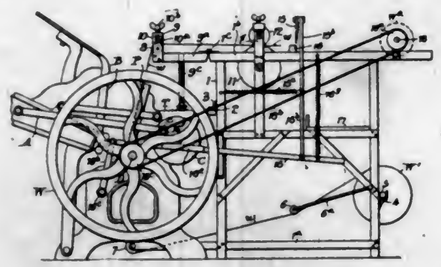


1. A safety traffic speed control apparatus for highways, comprising in combination, a permanent speed obstruction stationed in one-half of the highway, and a portable automatic one-way traffic device stationed in the other half of the highway.

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**1,696,638. WEB-FEEDING ATTACHMENT FOR JOB PRINTING PRESSES.** SAMUEL E. KALLENBAUGH, Manchester, Ga., assignor to Kallenbaugh Corporation. Filed July 11, 1927. Serial No. 204,957. 12 Claims. (Cl. 101—288.)

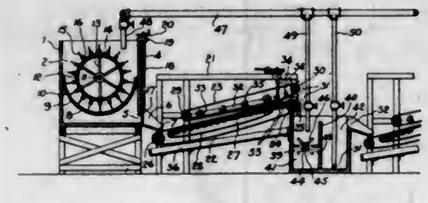
1. In combination with a bed and platen job press having rotatable cranks and pitmen for oscillating the platen; a frame, web guiding rollers mounted upon said frame whereby a web may be led to and through the job press to be printed thereby; a web feed roll mounted on said frame, means operable by one of the cranks for operating the feed roll whereby the web may be fed forward after each operation of the press; web severing devices mounted



on the frame and a member pivotally mounted on the press and adapted to be oscillated by one of the cranks for actuating the web severing devices.

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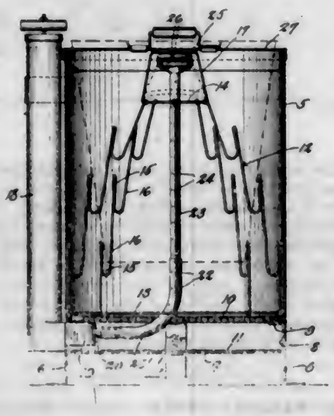
**1,696,639. DEINKING PROCESS AND MEANS FOR PERFORMING SAME.** WILLIAM LEWIS, Vancouver, British Columbia, Canada. Filed Sept. 6, 1927. Serial No. 217,736. 9 Claims. (Cl. 92—13.)



1. The process of de-inking newspaper and the like which consists of saturating the printed paper in an alkaline solution, of reducing it to a pulp then subjecting the pulp to pressure between opposing surfaces which are impervious to the pulp but are capable of passing the ink and the solution.

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**1,696,640. DISHWASHER.** JAMES WILSON LOWTHORP, Lawrenceburg, Tenn. Filed Feb. 17, 1927. Serial No. 169,057. 1 Claim. (Cl. 141—9.)



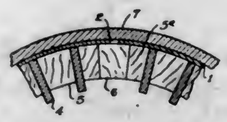
In a dish washer, a body portion, bracket members secured within the body portion adjacent to the bottom



thereof, a removable bottom formed of wire mesh material, supported on the bracket members and dividing the body portion into an upper and a lower compartment, a dish rack in the body portion and resting on the removable bottom, said dish rack including a lower circular member and an upper circular member, rods having loops formed therein and connecting the circular members, the loops defining recesses to support dishes therein, a spraying pipe extending through the lower compartment and extending upwardly through the central portion of the body portion, said spray pipe having openings formed throughout the length thereof and adapted to spray water laterally onto dishes supported on the rack, said pipe terminating at a point adjacent to the upper end of the body portion, a nozzle on the free end of the pipe for spraying water passing through the pipe, and means for drawing liquid from the lower compartment and forcing liquid through the spray pipe.

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**1,696,641. JORDAN-ENGINE-SHELL LINING.** HOMER D. MARTINDALE, Middletown, Ohio, assignor, by mesne assignments, to The Black-Clawson Company, Hamilton, Ohio, a Corporation of Ohio. Filed Apr. 13, 1925. Serial No. 22,567. 5 Claims. (Cl. 92—27.)



1. A shell lining for a Jordan engine including in combination, an expandible jacket shaped to conform to an inner section of the shell and having a yieldable joint adapted normally to prevent expansion of said jacket, a plurality of blades and blade spacing elements adapted to be assembled and expanded in said jacket in its normal relation to effect a shell lining unit, and means operable after said unit is introduced in a shell to spread the joint and expand the lining unit to effect fixed relation between the unit and said shell.

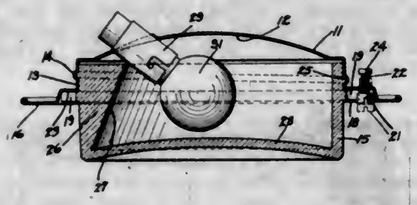
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**1,696,642. REFRIGERANT LUBRICANT AND METHOD OF LUBRICATING REFRIGERATING MACHINERY.** ROBERT F. MASSA, New York, N. Y., assignor to Carbide & Carbon Chemicals Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1924. Serial No. 742,956. 5 Claims. (Cl. 87—9.)

1. A lubricant for refrigerating machines containing a glycol.

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**1,696,643. LAMP.** FRANK W. NORTON, Chicago, Ill. Filed Sept. 29, 1927. Serial No. 222,798. 11 Claims. (Cl. 240—7.35.)



11. A lamp assembly of the character described, comprising a hood having an annular shoulder about the same, means for securing a light bulb in the hood, a translucent dome forming a closure for the hood and having an outwardly extending flange adapted to seat against said shoulder, means providing a screw-threaded connection between the dome and the hood whereby the dome may be screwed into the hood with its flange in tight contact with said shoulder, and a locking device associated with the hood and adapted, when engaged with said flange, to hold the dome from turning with respect to the hood.

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**1,696,644. CATALYTIC AND ADSORBENT GEL.** WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Original application filed Feb. 28, 1920, Serial No. 362,138. Divided and this application filed Mar. 15, 1926. Serial No. 94,959. 4 Claims. (Cl. 23—233.)

1. A hard stable material having a porous structure substantially the same as silica gel and consisting of a colloidal oxide and copper oxide.

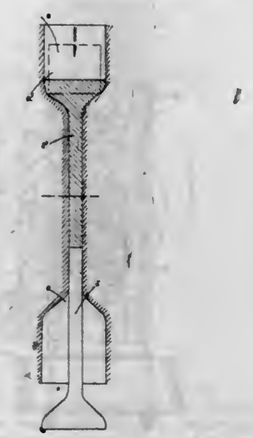
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**1,696,645. CATALYTIC AND ADSORBENT GEL.** WALTER A. PATRICK, Baltimore, Md., assignor to The Silica Gel Corporation, Baltimore, Md., a Corporation of Maryland. Original application filed Feb. 28, 1920, Serial No. 362,138. Divided and this application filed Mar. 15, 1926. Serial No. 94,960. 4 Claims. (Cl. 23—233.)

1. A hard stable material having a porous structure substantially the same as silica gel and consisting of a colloidal oxide and nickel.

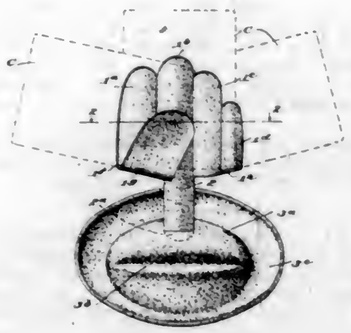
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**1,696,646. MANUFACTURING OF VALVES AND LIKE DEVICES.** LEON SAIVES, Billancourt, France, assignor to Louis Renault, Billancourt, France. Filed Feb. 6, 1928, Serial No. 252,391, and in France Oct. 8, 1927. 1 Claim. (Cl. 207—1.)



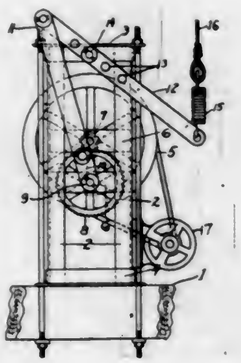
A process of manufacturing valves and like devices in which the matrices receiving the blanks are disposed in pairs, and the matrices of each pair are in directly opposite position and connected by an axial conduit, whereby the matrices of each pair are brought in succession under the press, and the blank pressed into one of the matrices expels the valve just formed in the opposite matrix.

1,696,647. PLAYING-CARD HOLDER. HERMAN J. SANDER and ALBERT J. BREISTER, Fond du Lac, Wis. Filed Apr. 26, 1928. Serial No. 273,049. 3 Claims. (Cl. 273—150.)



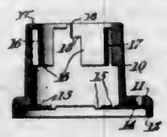
1. A playing-card holder comprising an arcuate stamped sheet metal back, a yieldable thumb member extending from one lower corner of the back and bent to extend diagonally across the concave face of the back; the opposite lower corner of the back being flanged outwardly; and means for supporting the back.

1,696,648. BELL-RINGING DEVICE. GEORGE V. SCHWENZER, Brooklyn, N. Y. Filed Sept. 8, 1925. Serial No. 54,917. 4 Claims. (Cl. 116—25.)



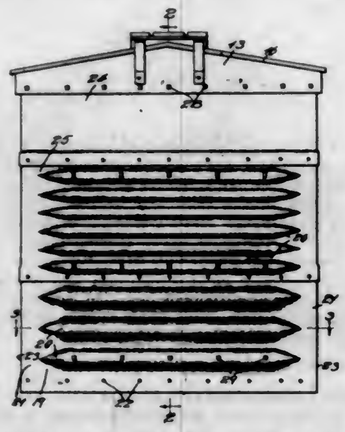
1. A mechanical bell ringing device comprising in combination with a motor, a wheel operable by the motor, a gear rotatable by the operation of the wheel, a crank rotatable with the gear, and a link actuated by the crank, a lever actuated by the link, resilient means connected with the lever for tolling the bell and adjustable means of mounting the lever.

1,696,649. SOCKET FOR RADIO INSTRUMENTS. RICHARD W. SEABURY, Boonton, N. J., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J., a Corporation of New Jersey. Filed Jan. 20, 1923. Serial No. 614,036. 5 Claims. (Cl. 173—328.)



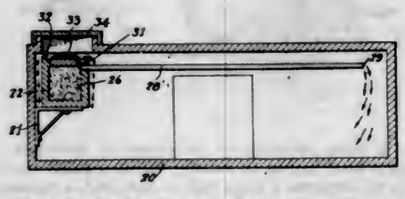
1. An instrument socket comprising a tubular wall portion of insulating material integrally provided with an interiorly extending flange and a plurality of spaced interior bearing surfaces depending therefrom and adapted to make discontinuous contact with an instrument base.

1,696,650. CORRUGATED STEEL END FOR RAILWAY CARS. VINTON E. SISSON, Chicago, Ill., assignor, by mesne assignments, to Union Metal Products Company, Chicago, Ill., a Corporation of Delaware. Filed May 19, 1919. Serial No. 297,998. 24 Claims. (Cl. 105—410.)



1. In combination with the end sill and end plate of a railway car, of a sheet metal end structure extending between and attached to said end sill and end plate comprising a lower metallic plate formed with strengthening and rigidifying corrugations, and an upper flat metallic plate.

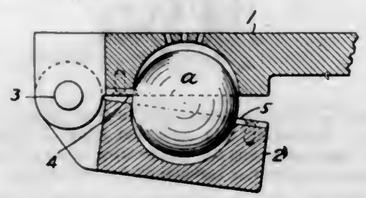
1,696,651. REFRIGERATING APPARATUS AND METHOD. THOMAS B. SLATE, New York, N. Y., assignor, by mesne assignments, to American Patents Development Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Jan. 10, 1924, Serial No. 685,482. Divided and this application filed Sept. 27, 1924. Serial No. 740,163. 4 Claims. (Cl. 62—92.)



1. The method of refrigerating material within a chamber which includes establishing separate downflow currents of cooling medium in parts of the chamber remote from one another, the downflow in the first or primary region consisting entirely of the atmosphere of the chamber and the downflow in a second region consisting mainly of carbon dioxide gas; said first or atmospheric circulation being induced by enclosing frozen carbon dioxide in an air-tight imperfectly insulating container, whereby the cooling in said region is entirely by absorbing heat from the atmosphere through the outer surface of said air-tight imperfectly insulating container; permitting the carbon dioxide gas to escape from the container by overflow through a high level outlet at a pressure so low that no further liquid or solid can be formed by expansion, whereby said gas first displaces all of the air in said container and then itself escapes as formed; conducting the expelled air and afterwards the pure gas so formed to said remote region of said chamber and then permitting it to escape and flow downward by gravity to thereby establish said gas and air downflow in said remote region.

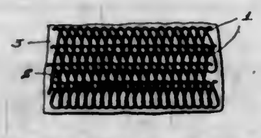


1,696,652. EJECTOR FOR MOLDS. EDWARD W. SMITH, Philadelphia, Pa. Filed July 29, 1926. Serial No. 125,815. 4 Claims. (Cl. 22—154.)



1. Ejecting means for two-part hinged molds comprising spurs projecting into the mold cavity and arranged on opposite sides of the parting.

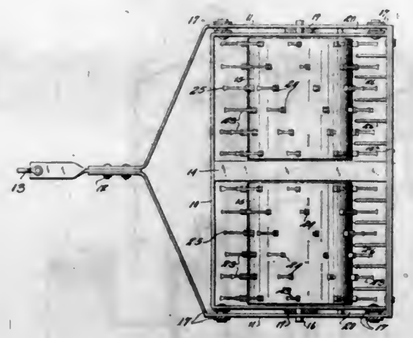
1,696,653. SPRING PAD FOR PRESSING MACHINES. HARRY ALBERT STEELE, Syracuse, N. Y., assignor to The Prosperity Company Inc., Syracuse, N. Y., a Corporation of New York. Filed Nov. 24, 1926. Serial No. 150,605. 1 Claim. (Cl. 68—9.)



A spring pad construction for pressing machines comprising a plate, a plurality of coiled springs lying on their sides on the plate, the lower portions of the end coils of the springs at like ends of the springs being secured to the plate and the top portions of the end coils at the other ends of the springs being secured to the plate whereby the springs are tensioned with their coils at an incline to the plate, so that the coils when under pressure swing toward the plate, and the coils of each spring interlacing through the coils of the next spring, the intermediate coils between the end coils being free of and slidably engaging the plate.

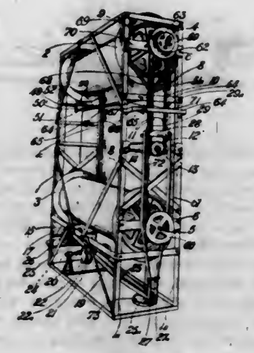
1,696,654. ROLLER CULTIVATOR. ISAAC F. STEM and JOHN H. GLAZE, Mountain View, Calif. Filed Feb. 21, 1927. Serial No. 169,099. 1 Claim. (Cl. 55—11.)

A cultivator comprising an outer, substantially rectangular frame having a draft tongue, an inner rectangular frame disposed within and on the same level as the outer frame and abutting against the rear bar of the outer frame but spaced from the ends of the outer frame, means connecting the inner frame to the outer frame at spaced points, a roller cultivator having trunnions extending through the inner and outer frames at the ends thereof, levers pivotally mounted upon the said trunnions, one at each end of the roller cultivator, and each lever having a roller at its lower end, and arcuate bars attached to the forward and rear ends of the outer and inner frames and extending concentric



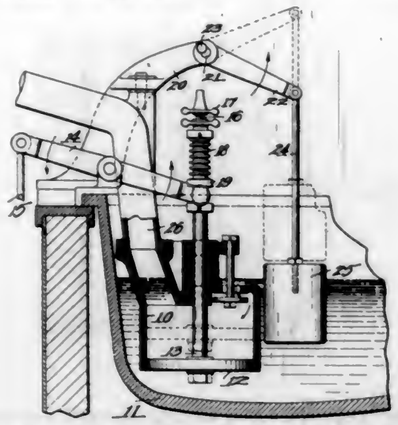
to the trunnions and having aligning apertures, and bolts adapted to pass through the levers and through said apertures to thereby hold the levers in adjusted positions to raise or lower the machine from the ground, each of said levers being adjustable independently of the other lever.

1,696,655. AUTOMATIC MACHINE FOR DISPLAYING ADVERTISEMENTS, POSTERS, PICTURES, SHOW CARDS, AND THE LIKE. WILLIAM THORPE, Wellington, New Zealand. Filed Aug. 13, 1925. Serial No. 50,078. 5 Claims. (Cl. 40—31.)



1. An improved automatic machine for displaying posters, pictures, show cards, and the like, comprising a frame member, a pair of revoluble superimposed rollers mounted thereon, a driving connection between the rollers, a screen containing advertisements and the like mounted on said rollers, a motor, a drive chain connected to the upper roller but free of driving connection with the lower roller, a sliding member to embrace said chain, pins on the chain, means on the sliding member whereby the pins may be selectively engaged to move the same in either direction in the movement of the sliding member, links depending from the sliding member, bars pivotally supported at one end and connected at the opposite end to said links, and cam mechanism for operating the bars in both directions whereby to reciprocate the sliding member.

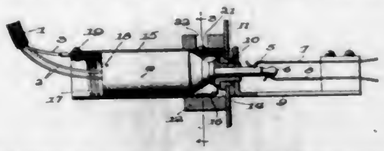
1,696,656. PUMP FOR MOLTEN METAL. ISIDOR TORNBERG, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a Corporation of Virginia. Filed June 30, 1927. Serial No. 202,499. 6 Claims. (Cl. 22—70.)



1. In a pump for discharging molten metal, the combination with a melting pot and a pump immersed therein, of means for operating the piston of said pump, a float in the molten metal in the pot, and means connected with said float for stopping the operation of the piston controlled by the elevation of the float.

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1,696,657. SHIELDED TELEPHONE PLUG. ARTHUR M. TROGNER, Takoma Park, Md., and THOMAS McL. DAVIS, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1927. Serial No. 163,046. 7 Claims. (Cl. 179—91.)



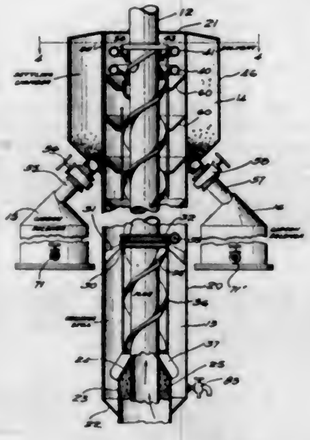
1. An electrical connector comprising a supporting member, a telephone plug arranged to cooperate with a telephone jack, an insulated member carried by said supporting member and surrounding one end of said jack, a cooperating body portion for said plug, telephone conductors extending into said cooperating body portion, and an electrostatic shield substantially enclosing the insulated body portion of said telephone plug and connected to ground for preventing electromagnetic or electrostatic coupling with conductors extending into said body portion and means carried by said insulated member for locking said plug in said jack.

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1,696,658. PROCESS OF CRACKING HYDROCARBONS. MILON J. TRUMBLE, Alhambra, Calif. Filed Sept. 2, 1924, Serial No. 735,357. Renewed Oct. 24, 1928. 9 Claims. (Cl. 196—69.)

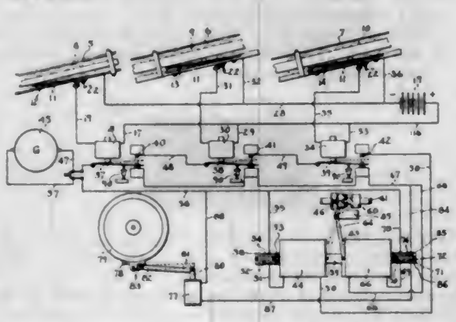
1. A process for cracking liquid hydrocarbons under pressure which comprises: flowing said hydrocarbon downwardly in a film over an external vertical surface contained within a pressure chamber; heating said surface internally to a temperature sufficient to cause the cracking of said hydrocarbons; removing the residual carbonaceous products of said cracking action from said surface by a combined mechanical and washing process; removing the vapor products of said cracking action from said pressure chamber, and condensing said vapors.

9. A cracking apparatus comprising: a vertical chamber; an upwardly extending flue passing through said chamber; mechanical scraping means rotatable about said flue; means for supplying a thin film of oil descending under the action of gravity in contact with said flue; means for withdrawing vapors and gases from said chamber; means for removing liquid and solid residual mixture from said chamber; means for separating said solid and liquid residual substances; separate means for withdrawing said solid residue, and means for returning residual oil for treatment.



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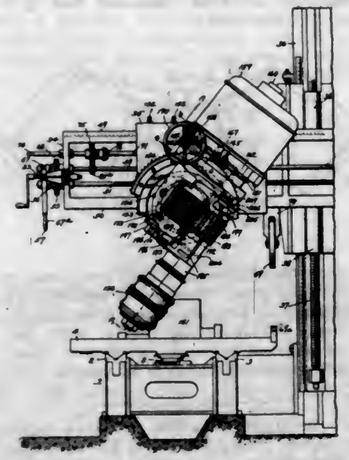
1,696,659. AUTOMATIC CONTROL MECHANISM. WILLIAM C. WARD, Jamestown, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 12, 1927. Serial No. 219,160. 4 Claims. (Cl. 192—125.)



1. A control mechanism comprising, in combination with a runway, a detector spring located in the runway, an electric circuit closed through the spring when the runway is filled with articles, a solenoid in the circuit, a clutch, a solenoid for moving the clutch in one direction, a solenoid for moving the clutch in the opposite direction, an armature common to the second and third solenoids, connections between the armature and the clutch, a circuit through the second solenoid, a circuit through the third solenoid, a movable contact arm arranged to be actuated by the first solenoid for closing the circuit through the second solenoid when the runway is filled with articles and for closing the circuit through the third solenoid when articles are absent from the runway, a brake, a solenoid for actuating the brake, a circuit in which the brake solenoid is located, and means arranged to close the circuit through the brake solenoid following the closing of the circuit through the third solenoid.



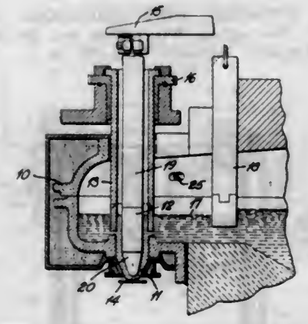
1,696,660. MACHINE FOR GRINDING OR CUTTING STONE. JULIUS WEGNER, New York, N. Y. Filed Sept. 12, 1924. Serial No. 737,291. 22 Claims. (Cl. 51—35.)



1. In a machine for grinding flat stone horizontally or fluting columns vertically, the combination of a table upon which the stone or column is supported, a rotary grinding head, a shaft carrying the grinding head, a carriage, means for transversely pivoting said shaft intermediate its ends to said carriage, so that the shaft may swing in a plane transverse to the table, from a vertical to a horizontal position, an electric motor carried by said pivoting means for driving said grinder shaft, a crossrail supporting said carriage, extending across the table, a vertical screw for raising and lowering said crossrail, power operated means for rotating said vertical screw, so as to feed the grinder vertically when the grinder shaft is in horizontal position when fluting columns, a screw for adjusting said carriage along the crossrail, across the work, and for holding the carriage in its adjusted position, and means independent of said electric motor for reciprocating said stone supporting table beneath said crossrail, at right angles to said plane.

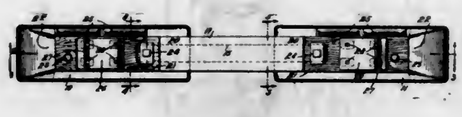
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1,696,661. COMPOSITE GLASS-FEEDER IMPLEMENT. PAUL G. WILLETTS, Berlin, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed June 4, 1926. Serial No. 113,688. 10 Claims. (Cl. 49—14.)



3. A composite implement for working molten glass comprising separate substantially solid sections of different refractory materials, and means for joining the sections together as a unit.

1,696,662. RAILROAD CROSSTIE. HAROLD A. WILLS, Plainfield, N. J., Filed Mar. 19, 1928. Serial No. 262,631. 2 Claims. (Cl. 238—30.)



1. A railroad cross-tie comprising, two concrete base blocks having on the upper surfaces of their inner ends shallow recesses, a metal tie-piece received at its ends in the recesses in the base blocks, a concrete alinement member in which the middle section of the metal tie-piece is embedded with its ends projecting longitudinally beyond the ends of the concrete alinement member, the ends of the upper part of the alinement member projecting laterally beyond the sides of the metal tie-piece to rest upon the upper edges of the inner ends of the base blocks, and the middle section of the alinement member projecting downwardly between the base blocks and abutting the inner ends thereof, and means for holding the parts of the cross-piece together.

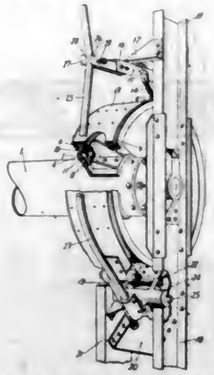
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1,696,663. CONNECTER FOR INCANDESCENT LAMPS. GEORG FRIEDRICH BECKER, Bremen, Germany. Filed Dec. 29, 1927, Serial No. 243,356, and in Germany May 25, 1926. 2 Claims. (Cl. 173—328.)



1. A connecter for elongated incandescent lamps of that type having a filament terminal at each end thereof comprising a body of conducting material formed with a socket to receive the adjacent terminals of two longitudinally alined lamps, said body having at one side of said socket a conductor wire receiving bead in electrical conductivity with the body and provided with wire securing means and said body having at its diametrically opposite side a conductor wire receiving bead having a surface for electrically insulating the wire therefrom.

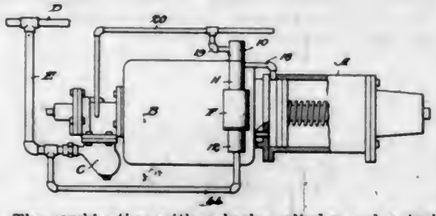
1,696,664. BULL-WHEEL STRUCTURE. RICHARD R. BLOSS, Columbus, Ohio, assignor to The International Derrick & Equipment Company, Columbus, Ohio, a Corporation of Ohio. Filed May 29, 1926. Serial No. 112,655. 9 Claims. (Cl. 188—218.)



1. A brake wheel structure comprising a brake wheel, a brake band, a means for holding said brake band away from said brake wheel, said means being located above said brake wheel, a leverage mechanism located beneath said brake wheel, and means for latching said leverage mechanism in inoperative position.

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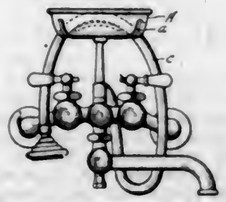
1,696,665. AIR BRAKE. CARL R. BOWEN, Wilmington, Calif. Filed Mar. 26, 1928. Serial No. 264,682. 5 Claims. (Cl. 303—77.)



1. The combination with a brake cylinder and a train line, of a vent for the brake cylinder, a valve for opening and closing said vent, means constantly tending to move said valve to a position to close the vent, and means operated by train line pressure to move said valve to a position to open the vent, said last named means being movable relatively to the valve in the direction of its valve opening movement and after said valve is in full open position to thereby adjust itself for correct valve operation under variable maximum train line pressures.

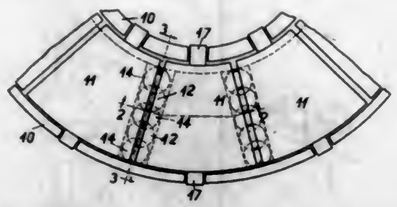
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1,696,666. SOAP DISH. ALBERT C. BROWN, Chicago, Ill. Filed July 11, 1924. Serial No. 725,317. 3 Claims. (Cl. 45—28.)



1. In a soap dish, a body portion of vitreous material forming a soap receptacle and a hose supporting member integral with said body portion and extending along one side thereof, said hose supporting member being upwardly concave transversely and upwardly convex longitudinally.

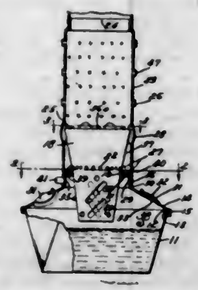
1,696,667. MACHINE BEARING. ERIC BROWN, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a Joint Stock Company. Filed Feb. 18, 1926, Serial No. 89,211, and in Germany Feb. 25, 1925. Renewed Nov. 3, 1928. 4 Claims. (Cl. 308—160.)



1. Machine bearing construction comprising segments having load supporting surfaces and contact surfaces extending obliquely at different angles to the load supporting surfaces, balls having rolling contact with the contact surfaces of adjacent segments to support them jointly, and shiftable equalizing members supporting the balls.

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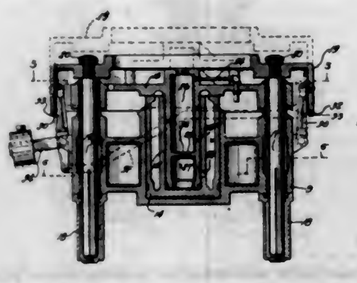
1,696,668. ORCHARD HEATER. WILLIAM STEWART BUTTON, Riverside, Calif., assignor to Riverside Sheet Metal Works, a Corporation of California. Filed June 8, 1925. Serial No. 35,644. 8 Claims. (Cl. 158—91.)



1. An orchard heater comprising: a fuel receptacle provided with a cover; a burner extending above said cover; and a stack extending above said burner and provided with bumps at the level of the top of said burner, to permit an upward current of air preheated in a space between said burner and said stack, said stack having a series of air inlet openings formed therein and arranged circumferentially about said burner below said bumps.

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1,696,669. FOUNDRY JOLT SQUEEZER. ERLE J. BYERLEIN, Wauwatosa, Wis. Filed Aug. 20, 1926. Serial No. 130,437. 4 Claims. (Cl. 22—29.)

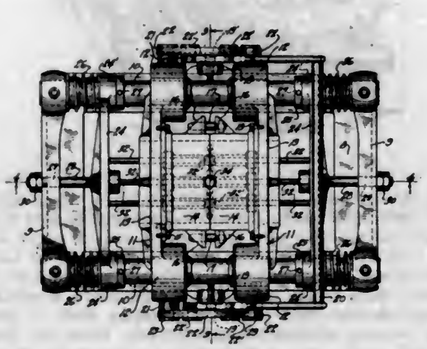


1. A foundry jolt squeezer, comprising a frame, a pair of pistons mounted in said support of relatively different diameters and movable together or independently, a pair of opposed guide members carried by the frame, a head slidably mounted on said guide members and operatively connected to one of the pistons to have a relative movement with respect thereto, a stripper frame secured to and movable with said guide members and supported by said head, a pressure member, releasable means engaging the under surface of the stripper frame to hold it in an elevated position, and compressed air controlled means to operate the pistons in unison or independently.



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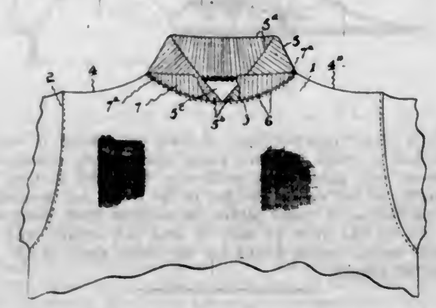
1,696,670. METHOD OF AND MACHINE FOR CASTING. EARLE J. BYERLEIN, Wauwatosa, Wis. Filed Oct. 20, 1927. Serial No. 227,526. 12 Claims. (Cl. 22—92.)



1. A casting machine, comprising a support having a guide means, flask sections slidably mounted thereon and movable towards and away from each other, stripping pins extending through the flask sections and into the recesses forming the mold for engaging the casting to be formed therein, means for moving the flask sections to open positions while the stripping pins are in their casting engaging position, and means for moving the stripping pins to casting disengaging position while the flask sections are in open position.

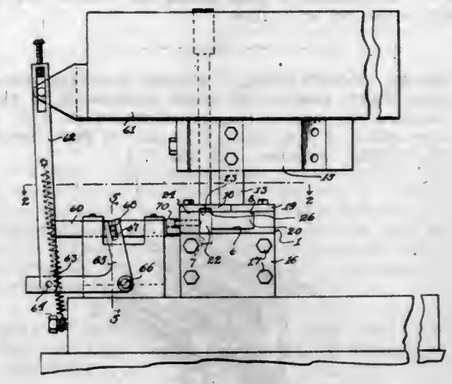
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1,696,671. GARMENT. JOHN A. DUNCAN, Hamilton, Ontario, Canada, assignor to Mercury Mills, Limited, Hamilton, Canada. Filed May 9, 1928, Serial No. 276,345, and in Canada July 2, 1927. 5 Claims. (Cl. 2—90.)



1. A garment having an opening at the top thereof; a collar having its ends narrower in width than the remainder of the collar and secured around the edge of the said opening; and a closure strip overlying the said narrow ends and secured to the garment.

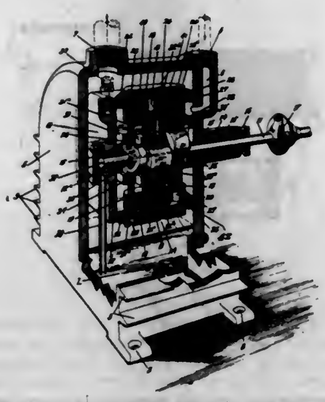
1,696,672. APPARATUS FOR MAKING LOCK-NUT BLANKS. I. C. EMERY, Baltimore, Md., assignor to Chapman Self Locking Nut Company, Baltimore, Md., trustees of a Common Law Trust Estate Filed Oct. 8, 1925. Serial No. 61,255. 19 Claims. (Cl. 10—72.)



6. In a machine for making lock nut blanks from metal strips, the combination of a base member provided with two end portions separated on one side by a pair of vertically disposed recesses and provided with a pair of horizontally disposed recesses; said base member also provided in each end portion with a well passing from said last named recesses down into each end portion; readily attachable and detachable folding and swaging dies located in said vertically disposed recesses; reciprocating compressing dies located in said horizontally disposed recesses; a cutting means carried by said base member; a pair of reciprocating members provided with cam surfaces movable up and down in said wells; folding and swaging plungers coacting with said first named folding and swaging dies; and a reciprocating cutting means coacting with said first named cutting means.

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1,696,673. COMPRESSOR. WILFRED FOURNESS, Pasadena, Calif., assignor, by mesne assignments, to The Fourness Development Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 8, 1925. Serial No. 61,372. 8 Claims. (Cl. 230—185.)

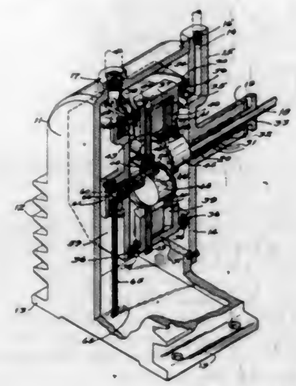


1. In a compressor, in combination, a compressor body, a plurality of cylinder blocks inserted thereinto with cylinders therein, said cylinder blocks having bores

parallel with said cylinders for valve members, and having outlet ports, valve members reciprocating in said bores, and controlling only said outlet ports, pistons in said cylinders, an operating shaft, eccentrics connected for reciprocating said pistons and said valve members, and a housing for said compressor body into which discharge from said cylinders is made during the reciprocating of said pistons and said valves.

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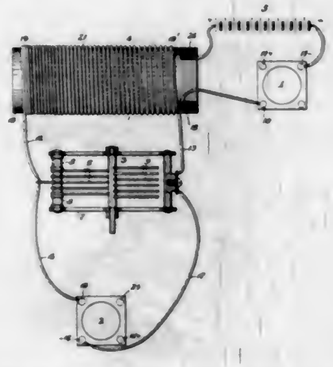
1,696,674. COMPRESSOR. WILFRED FOURNESS, Pasadena, Calif., assignor, by mesne assignments, to The Fourness Development Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 8, 1927. Serial No. 173,739. 9 Claims. (Cl. 230—217.)



1. In a compressor, a cylinder, an eccentric rotatable about an axis non-parallel with that of the cylinder, a block in which said eccentric rotates, and a piston operating in the cylinder, said piston being provided with an integral extension having a sliding connection with the block for causing the block to reciprocate the piston as the eccentric is rotated, and for permitting relative motion between the piston and the block transverse to the cylinder axis.

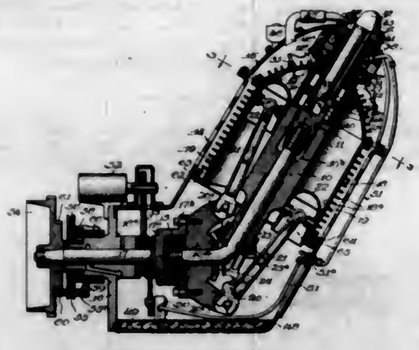
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1,696,675. RADIOFREQUENCY UNIT. THEODORE E. FRIEND, Norwalk, Ohio. Filed Jan. 24, 1927. Serial No. 162,983. 8 Claims. (Cl. 175—359.)



1. A coil for use in radio frequency units in which the primary windings are concentrated in one end of the coil and in which the secondary windings are spaced progressively decreasing distances from the primary winding end to the other end of the coil.

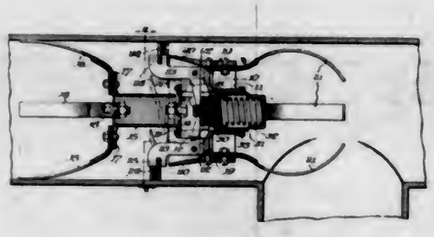
1,696,676. INTERNAL-COMBUSTION MOTOR. WILLIAM FUHA, Chicago, Ill. Filed Apr. 30, 1927. Serial No. 187,780. 5 Claims. (Cl. 123—43.)



1. In an internal combustion motor, the combination of a main drive shaft, a crank disc mounted on said drive shaft and provided with radial crank arms, a crank case for said crank disc, a bearing shaft supported at its lower end in said crank case, and extending upwardly at an obtuse angle to the axis of said drive shaft, a cylinder block rotatively mounted on said bearing shaft, a cylindric housing surrounding said cylinder block and fixed to said crank case, a support at the upper end of said housing for the adjacent end of said bearing shaft, pistons mounted on said cylinders, connecting rods connecting each of said pistons with a corresponding crank arm, and gear members connecting said crank disc with the adjacent end of said cylinder block.

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1,696,677. TUBE CLEANER. THOMAS R. HAYTON, Appleton, Wis. Filed Dec. 5, 1927. Serial No. 237,737. 5 Claims. (Cl. 15—104.06.)



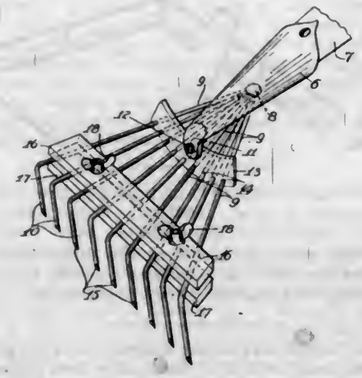
1. A liquid impelled tube cleaner, comprising in combination, a frame, forward guide arms rigidly connected thereto, rear guide arms resiliently connected thereto, a plurality of bell cranks pivoted to the frame and mounted for oscillation in radial planes, an impeller blade mounted on one of the arms of each of said bell cranks, and a single spring means acting on the other arms of all of said bell cranks.

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1,696,678. HAND CULTIVATOR. CEDRIC RIDDULPH HENNING, Hunters Hill, near Sydney, New South Wales, Australia. Filed Mar. 17, 1924, Serial No. 699,680, and in Australia Mar. 27, 1923. 3 Claims. (Cl. 55—10.)

1. Improvements in hand cultivators comprising a handle, a socket attached thereto, a series of radially extending spring tines rigidly and permanently attached about a point towards the rear of said socket and all passing through a transverse bar or spacing piece rigidly attached at or about the forward end of said socket, said

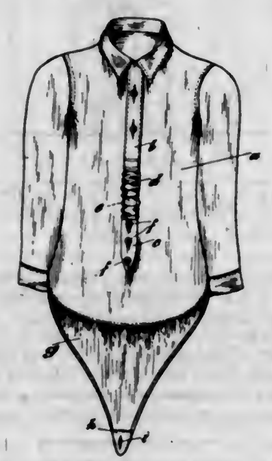




tines being turned downwardly at their free ends and a supplemental weight detachably secured to the tines between said spacing piece and their down-turned ends.

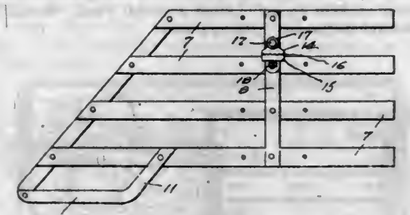
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1,696,679. SHIRT AND LIKE ARTICLE OF WEARING APPAREL. ERNEST HIGGINS, Gloucester, England. Filed Apr. 9, 1926, Serial No. 100,866, and in Great Britain Mar. 9, 1926. 1 Claim. (Cl. 2—77.)



A shirt comprising a front portion and a back portion, said front portion adapted to be opened at the front above the waist line, a band attached to one edge of the front portion having a set of button holes therein for buttoning onto a set of buttons attached to the other edge of the front portion, said band extending below the opening of the front portion of the shirt and having a set of of buttons attached thereto, a pear-shaped tail of greater length than the front portion of the shirt, the apex of which forms the extreme bottom edge of said tail, and a button hole in said apex adapted to be secured to one of a plurality of buttons fastened to and extending up the lower portion of the band whereby said tail may be passed between the legs of the wearer and secured by its apex to one of said buttons, and resilient means above said second set of buttons to allow the said tail a certain amount of play and to take up any outward bulge of the front when the wearer stoops or sits down.

1,696,680. PLANT GUARD FOR CULTIVATORS. JAMES HLAVKA, Burke, S. Dak. Filed Dec. 23, 1927. Serial No. 242,128. 4 Claims. (Cl. 97—188.)



1. A guard of the class described comprising a plurality of spaced parallel bars disposed horizontally in a vertical plane, the lengths of the bars decreasing upwardly in a gradual manner, said bars being disposed with their rear ends in the same vertical plane and their forward ends in an upwardly rearwardly inclined plane, and means for securing the bars in fixed relation together.

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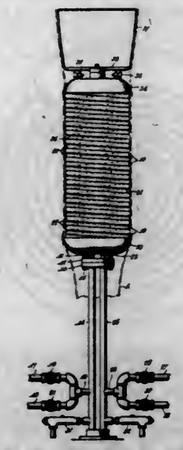
1,696,681. REEL. LIZZIE HOOCK, Colony, Okla. Filed Feb. 24, 1928. Serial No. 256,513. 3 Claims. (Cl. 254—190.)



1. A reel for clothes lines comprising a plate adapted to be fixed to a wall, a plurality of arms mounted on said plate and supporting a second plate spaced from the first plate, a casing mounted on said first plate, a shaft journalled in the casing and the second plate, a pulley non-rotatably mounted on said shaft, and a crank fixed to the outer end of the shaft.

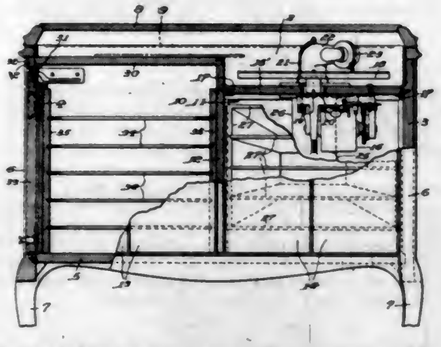
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1,696,682. DEVICE FOR DRYING, STEAMING, AND CONDITIONING TUBULAR FABRICS. MAURICE M. KASANOF, New York, N. Y. Filed Dec. 8, 1927. Serial No. 238,604. 7 Claims. (Cl. 26—56.)



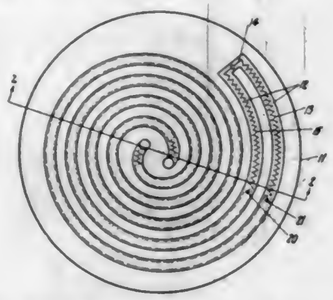
1. A device for use in drying, steaming and conditioning fabrics, including two coils, the convolutions of one coil alternating with the convolutions of the other coil, said coils having inlets adapted to receive steam or air, to the inlet and imperforate at the convolutions remote to the inlet and imperfate at the convolutions remote from said inlet, the other coil having imperforate convolutions adjacent to the inlet and perforated convolutions remote from the inlet.

1,696,683. TALKING MACHINE. EUGENE T. KIEFFER and WILLIAM B. STEVENSON, Philadelphia, Pa., assignors to Victor Talking Machine Company, a Corporation of New Jersey. Filed July 31, 1923. Serial No. 654,840. 3 Claims. (Cl. 312—8.)



1. In a talking machine cabinet, the combination of front and rear walls and end walls extending therebetween closing said cabinet on the four substantially vertical sides thereof, one of said end walls being substantially flush with respect to the adjacent ends of the front and rear walls and the other end wall being inwardly offset with respect to the adjacent ends of the front and rear walls so as to provide a recess in the end of the cabinet, a movable leaf adapted to seat in and substantially fill said recess and when in said recess to impart to said end of the cabinet the same appearance that the first mentioned end wall imparts to the other end of the cabinet, and means for hingedly connecting said leaf to said cabinet to permit the lower edge of said leaf to be moved from its lowest position in said recess outwardly and upwardly to bring said leaf into a substantially horizontal position, and means concealed within said cabinet for supporting said leaf in said horizontal position.

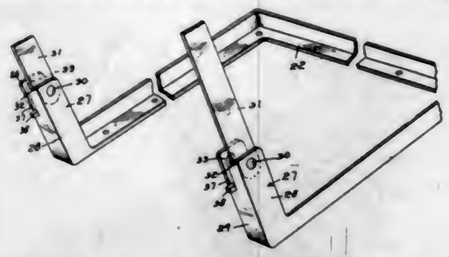
1,696,684. HEATER CONTROLLER. OTTO A. KNOPF, Oakland, Calif. Filed Apr. 13, 1927. Serial No. 183,551. 7 Claims. (Cl. 219—37.)



1. In an electrical heating device, an electrical heating unit, and means for temporarily increasing the energization of the unit beyond its normal operating point during the initial heating up period of the unit comprising a thermostat operated in response to the attainment of the desired rate of heat emission of the unit to decrease its energization.

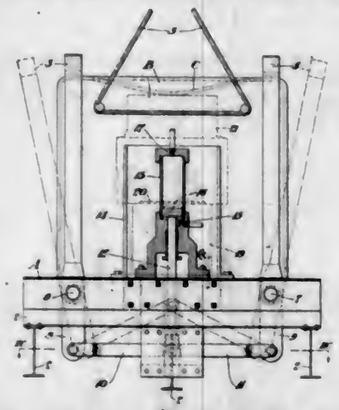
1,696,685. AUTOMOBILE SEAT HINGE. FERDINAND LEUTZ, Hebron, N. Dak. Filed Apr. 9, 1927. Serial No. 182,403. 3 Claims. (Cl. 16—191.)

1. A hinge for the back section of an automobile seat, comprising a lower hinge section including sides and a back, said back having an inwardly projecting stop tongue spaced from both sides and a longitudinal slot upon one side of the stop tongue, a pin carried by the sides, and an upper hinge section having an aperture to receive the pin, said upper



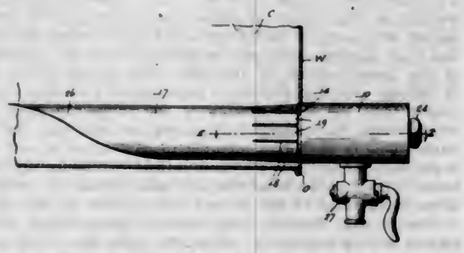
hinge section being of a width to pass between the stop tongue and either side, said stop tongue serving to lock the upper hinge section against lateral displacement.

1,696,686. APPARATUS FOR CROWNING ANNEALING BOXES. ARTHUR R. MCARTHUR, Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 24, 1926. Serial No. 97,052. 3 Claims. (Cl. 153—48.)



3. An apparatus for crowning annealing boxes, comprising a base, a pair of clamping yokes pivotally secured to said base and adapted to be swung into and out of position over the annealing box to be crowned, to hold said box against vertical movement relative to said base, means for operating said yokes, and a power operated jack mounted on said base and adapted to be operated to force the top of the annealing box upwardly into crowned position.

1,696,687. DISPENSING FAUCET. MARTIN NARBO, Brooklyn, N. Y. Filed Mar. 7, 1927, Serial No. 173,530, and in Guatemala Mar. 12, 1926. 10 Claims. (Cl. 221—23.)



1. A dispensing device for containers, comprising a tubular body section and a tubular shank section, said body

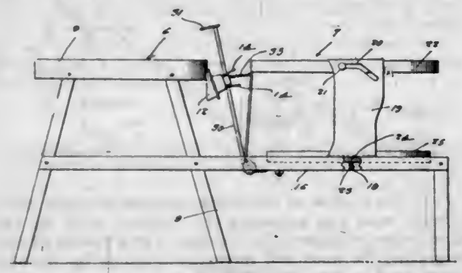


provided with a peripheral abutment shoulder, an intermediate portion of less diameter than said shoulder, and a third portion of still less diameter over which said shank section telescopes, said shank having a radially expansible and normally contracted end, means on said intermediate portion coacting with the contractable and expansible end of the shank upon movement thereof toward the peripheral abutment shoulder for radially expanding said end to approximately the diameter of the abutment shoulder, and means for moving said sections longitudinally of each other, whereby to grip the container wall around an outlet opening in the container.

1,696,688. MOLD FOR HIGH-TEMPERATURE CASTING OF REFRACTORY BODIES. KARL E. PEILER, West Hartford, Conn., assignor to Hartford-Empire Company, Hartford, Conn., a Corporation of Delaware. Filed Sept. 28, 1926. Serial No. 138,332. 12 Claims. (Cl. 49—65.)

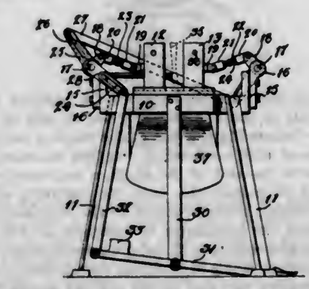
12. The process of making a mold for high temperature casting, that comprises mixing 80 to 85 parts of fused silica, of which a material portion is amorphous, comminuted to at least 20-mesh fineness, with 20 to 15 parts of comminuted lime, adding sufficient water for dry pressing, dry pressing the resulting mixture, and hardening the molded material by heat in the presence of steam.

1,696,689. MILKING STOOL AND PAIL HOLDER. RICHARD A. POEHLS, La Moure, N. Dak. Filed Sept. 18, 1928. Serial No. 306,707. 3 Claims. (Cl. 31—57.)



1. In a structure of the class described, in combination, a milking stool, a horizontal forwardly extending frame mounted on said stool and provided with a supporting rod, a milk pail holder rockably mounted on said rod, an operating member pivotally connected with said holder, a retaining device on said stool with which said operating member is cooperable, standards on said frame at diametrically opposite sides of the pail holder, and pin and slot connections between the standards and pail holder.

1,696,690. MOLD. HARRY D. RINDSBERG, Cincinnati, Ohio, assignor to Harry J. Hater, Cincinnati, Ohio. Filed Sept. 14, 1927. Serial No. 219,519. 5 Claims. (Cl. 22—92.)



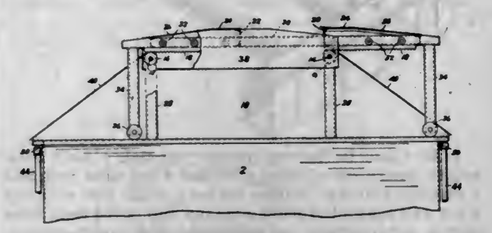
1. A mold comprising a base, a pair of separable mold sections thereon, a pair of rock shafts journaled on said base, crank arms on said shafts, means pivotally connecting the crank arms and mold sections, means operatively connecting said rock shafts whereby rotation of one shaft will turn the other, means to turn one of the shafts whereby the crank arms will separate the mold sections, and a weight to automatically return the mold sections to their operative position.

1,696,691. NECKTIE. TOBIAS ROCHMAN, New York, N. Y. Filed Jan. 12, 1928. Serial No. 246,168. 2 Claims. (Cl. 2—146.)



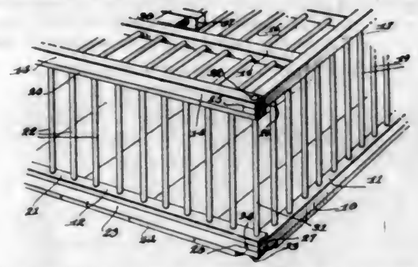
1. A manually tied necktie comprising outer fabric in tubular form, an inflatable bag disposed within said fabric tube, said inflatable bag being in collapsed condition and serving as a liner when said necktie is in manually tied condition, and inflating means for the bag whereby it may be distended and the fabric stretched and smoothed when said necktie is in untied condition.

1,696,692. ROOF FOR CARS. PRICE L. ROGERS, Narberth, and LOUIS P. HOLLADAY, Jr., Chestnut Hill, Pa. Filed Mar. 20, 1928. Serial No. 263,107. 4 Claims. (Cl. 105—377.)



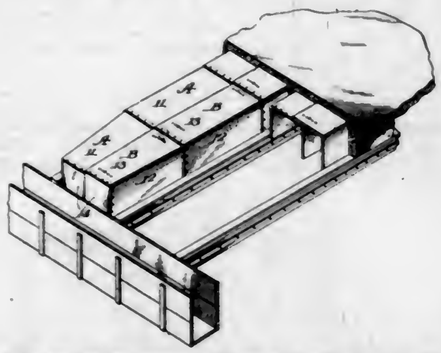
1. In combination with a car having upwardly extending sides and ends, a roof including a central portion supported above the tops of the sides of the car and side portions sloping downwardly from the central portion to the sides and pivoted at their upper edges about axes extending lengthwise of the car whereby the side portions may be raised to substantially horizontal positions, said central portion of the roof including at least one section movable horizontally towards a side of the car over a side portion to open the central portion of the car, said section being of such width that, if moved to an extreme open position with its inner edge adjacent the inner edge of the side portion over which it extends, it will not project substantially beyond the side of the car.

1,696,693. COOP OR CRATE. ARTHUR W. ROSENBERGER, Broadway, Va. Filed June 20, 1927. Serial No. 200,249. 5 Claims. (Cl. 217—43.)



1. A knockdown coop or crate comprising a bottom section having cleats on the upper side thereof to which the bottom boards are attached, said cleats being disposed at the opposite sides of the bottom, side and end sections each having upper and lower bars with interposed rounds, said side sections fitting side by side between the cleats when the coop is in knocked down condition, and a top section consisting of spaced apart longitudinal bars connected by grounds, the ends of the bars and cleats of the aforementioned sections being connected by interlocking joints at the corners of the coop when assembled and having bolt holes therethrough; together with bolts extending through said joints from the top to the bottom of the coop at the corners thereof for securing all the sections together and bracing the structure, the bolt holes at the ends of the top and bottom also providing for securing the parts together in knocked down condition.

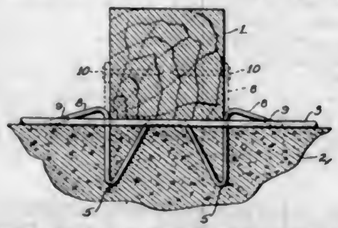
1,696,694. CONCRETE FORM. TELESPHORE J. SENESAC, Chicago, Ill. Filed July 2, 1927. Serial No. 203,099. 14 Claims. (Cl. 25—131.5.)



1. In forms for pouring plastic material, a main form section having spaced sides walls and a top cross wall, and a supplemental form section having a single side wall and a top wall adapted to overlap the top wall of the main form section, and removable end sections adapted interchangeably to be secured to the open end either of a main form section or a supplemental form section, substantially as described.

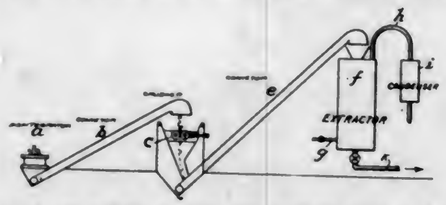
7. In forms of pouring plastic material, a main form section having spaced side walls and a top cross wall, and a supplemental form section having a single side wall and a top wall adapted to overlap the top wall of the main form section, a cross bar for supporting the lower edges of the main and supplemental form sections, said cross bar consisting of telescoping sections, each provided with a pivoted stirrup embracing the other bar sections, means for supporting the ends of the bars and maintaining exterior contact with the lower edges of the form sections, and means carried by the cross bars for clamping the lower edges of the form sections against the exterior contacting means substantially as described.

1,696,695. ANCHOR FOR FLOOR SLEEPERS. TELESPHORE JOSEPH SENESAC, Chicago, Ill. Filed Oct. 21, 1927. Serial No. 227,670. 12 Claims. (Cl. 72—101.)



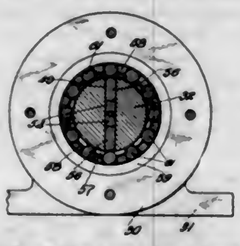
1. A device of the class described comprising a spacing member, a supporting member secured thereto, and a paid of flexible fingers formed on said supporting member and spaced from the point of connection between said members to define a seat for a bar, said supporting member having open loops between said point of connection and said fingers, said fingers having their base portions free to move a limited distance longitudinally of said spacing member.

1,696,696. PROCESS OF EXTRACTING ROSIN AND TURPENTINE FROM WOOD. ABRAHAM A. SHIMER, Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 30, 1926. Serial No. 157,887. 2 Claims. (Cl. 203—6.)



1. In the process of extracting resinous products from resinous wood and preparing the resinous wood for the manufacture of paper pulp, the steps which consist of disintegrating the wood and thereafter crushing the disintegrated wood to form thin flattened pieces without tearing and destroying the fibre.

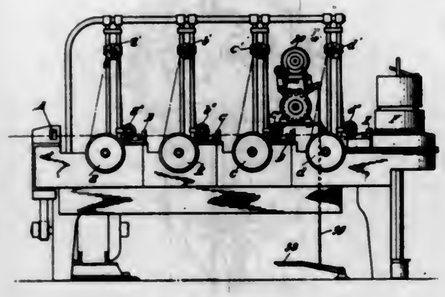
1,696,697. APPARATUS FOR POINTING WIRES. WILLIAM H. SOMMER, Peoria, Ill. Filed Feb. 20, 1926. Serial No. 89,739. 5 Claims. (Cl. 78—21.)



1. In a wire end pointing apparatus, a housing, a slotted rotatable shaft in the housing, a series of sets of swaging mechanisms disposed in the slot of the shaft, a pair of hammers associated with each set of swaging mechanisms and disposed within the slot of the shaft, a cage encircling the shaft, means to mount the cage for creeping movement within the housing, rollers carried by the cage and disposed to engage with the said pairs of hammers as the shaft is revolved, the adjacent sets of swaging mechanisms and the adjacent hammers being in abutting engagement, and combined wire guiding and end thrust take-up means threaded into the shaft and engaging an end set of swaging mechanisms and the hammers thereof.



1,696,698. PROCESS FOR POINTING AND DRAWING WIRES. WILLIAM H. SOMMER, Peoria, Ill. Original application filed Feb. 20, 1926, Serial No. 89,739. Divided and this application filed May 4, 1927. Serial No. 188,745. 1 Claim. (Cl. 205—2.)



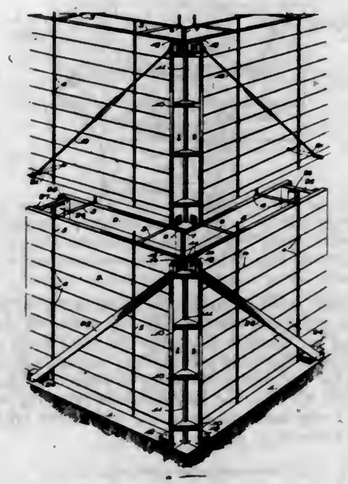
The hereindescribed method for pointing and drawing wire or the like through a series of successive reducing dies of a continuous wire drawing bench, which resides in initially shaping the end portions of the wire to provide same with a succession of reduced portions which latter correspond approximately in diameter to the diameters of the reducing dies of a wire drawing bench, and then in threading the end of least diameter into the reducing die of greatest diameter and moving the wire until the various diametered portions are in register with the respective reducing dies of corresponding diameter, and finally in drawing the wire through the reducing dies.

1,696,699. MECHANISM FOR USE WITH ARTICULATED MOLD FORMS. HAROLD ROBERT SUITER, Grand Rapids, Mich. Filed Aug. 2, 1927. Serial No. 210,197. 12 Claims. (Cl. 25—131.)



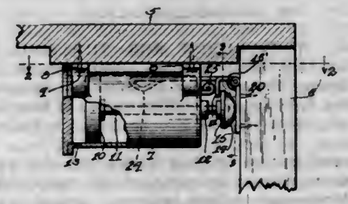
9. A holding and releasing mechanism for the tie rods of articulated mold forms, comprising a supporting plate for attachment to the top of a mold frame, a spacing bar secured to and depending from said plate, a plurality of tie rod gripping elements mounted thereon in spaced relation longitudinally of the bar, and a common means operable to effect rod gripping and releasing action of the plurality of gripping elements thereon.

1,696,700. MOLD-FORM STRUCTURE. HAROLD ROBERT SUITER, Grand Rapids, Mich. Filed Aug. 2, 1927. Serial No. 210,199. 15 Claims. (Cl. 25—131.)



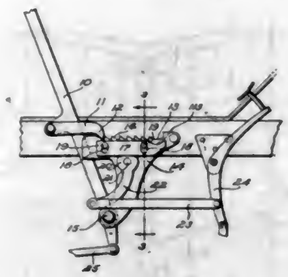
7. A corner mold form comprising complemental articulated side wall sections extending in converging angular relation with the adacent edges of the outer side wall sections and terminating at opposite sides of the corner extremity, an angle member having its inner face provided with a vertically extending V-shaped filler portion abutting the edges of and forming a continuation a of the outer side wall sections and providing the outer corner angle of the mold, means to support and position the base of said angle member, corner brackets secured to the opposite sides of said member at its top, and turn-buckles at opposite sides of the angle member anchored to said brackets and to a stationary abutment to position and hold the angle member with its filler in cooperative alinement with the side wall sections.

1,696,701. DOORCHECK. JAMES SCHORNACK, Belleville, N. J. Filed Dec. 10, 1927. Serial No. 239,197. 2 Claims. (Cl. 16—84.)



1. In a door check, a cylinder adapted to be secured to the door jamb and having a restricted opening, a plunger to slide in the cylinder, a plunger rod attached to the plunger, a head carried by a plunger rod and provided with a forward inclined face and a rear shoulder, a plate hinged to the door to swing vertically and provided with a depending engaging lip for co-action with said head, a releasing arm connected with the plate and having a cam, and a stationary trip arranged in the path of travel of the cam.

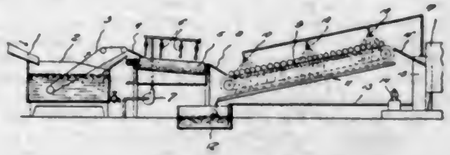
1,696,702. BRAKE-RELEASING DEVICE. WILLIAM H. WATLINGTON, Denver, Colo. Filed Feb. 2, 1927. Serial No. 165,422. 1 Claim. (Cl. 74—39.)



In a brake releasing device, in combination with a pivoted brake latch and toothed rack engageable by the latch, a releasing bar movable to engage the brake latch and lift the same out of latching position and means engaging said releasing bar for raising the same to effect disengagement of the latch, said toothed rack and said releasing bar having each a depression in which the end of the latch rests when the brake is in released position.

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1,696,703. COMPOSITION FOR TREATING FRUIT. HENRY GRADY ZELLNER, Fort Myers, Fla., assignor to Zeltrocide Chemical Corporation, Lakeland, Fla., a Corporation of Florida. Filed Apr. 21, 1925. Serial No. 24,829. 1 Claim. (Cl. 99—1.)



The herein described composition to be prepared in solution for treating fresh fruit for market to prevent destructive decay resulting from blue mold, green mold, stem end rot, and anthracnose comprising a mixture of substantially one-hundred pounds of borax, substantially twenty pounds of sodium bicarbonate, and substantially two pounds of potassium permanganate.

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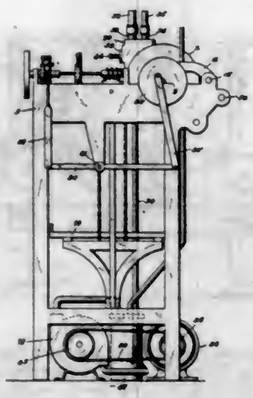
1,696,704. COMPOSITION FOR TREATING FRESH FRUITS AND VEGETABLES. HENRY GRADY ZELLNER, Fort Myers, Fla., assignor to Zeltrocide Chemical Corporation, Lakeland, Fla., a Corporation of Florida. Filed Apr. 23, 1926. Serial No. 104,143. 1 Claim. (Cl. 99—1.)

A composition for treating fresh fruits and vegetables for market to prevent destructive decay, comprising borax, sodium bicarbonate, sodium carbonate, potassium permanganate and copper sulphate, the borax being present in a greater percentage than the other ingredients combined, and the remaining ingredients being present in successively diminishing proportions in the order stated.

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1,696,705. CONVERTIBLE SINGLE OR DOUBLE ROTARY FEEDER. LESTER KYLE ALDRICH, Sidney, Ohio. Filed Oct. 14, 1927. Serial No. 226,222. 14 Claims. (Cl. 271—20.)

1. A rotary feeder including a continuously rotating pull off suction nozzle provided at its periphery with two arcuate sets of suction mouths having air ports, one set of suction mouths being provided with vent outlets, means for covering and uncovering the outlets for feeding either



one or two sheets during each revolution of the nozzle, and suction means with which the air ports are adapted to successively register.

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1,696,706. TOOTHBRUSH HOLDER. WALTER C. ATHON, Lavoye, Wyo. Filed June 13, 1927. Serial No. 198,604. 2 Claims. (Cl. 206—15.1.)



1. A device of the character described comprising a holder providing a housing for a tooth brush, having one end closed and the other end open, a vial located within the holder, a rubber gasket embracing the vial and having its periphery in frictional contact with the inner wall of the holder.

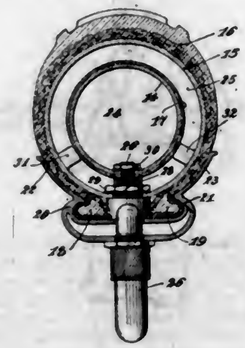
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1,696,707. VEHICLE TIRE. DAVID N. BOOTH, New York, N. Y. Filed Sept. 5, 1925. Serial No. 54,668. 1 Claim. (Cl. 152—22.)

In a vehicle tire, an expansible outer tube, an expansible inner tube concentric therewith, a substantially inexpansible cover extending immediately around the exterior of, the inner tube to limit the expansion thereof to a diameter appreciably smaller than the inner diameter of the outer tube providing an annular space between the tubes, means



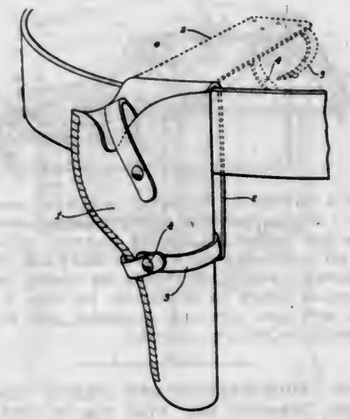
for inflating the inner and outer tubes whereby the pressure in the inner tube is appreciably greater than that in the space between the tubes, series of lugs connected to the



outer tube and normally extending between the same and the inner tube and its cover to position the said inner tube and its cover, and a shoe surrounding the outer tube.

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1,696,708. HOLSTER. EDWARD J. BRAUER, St. Louis, Mo., assignor to Brauer Bros., Inc., a Corporation of Missouri. Filed Sept. 2, 1927. Serial No. 217,029. 4 Claims. (Cl. 224—2.)



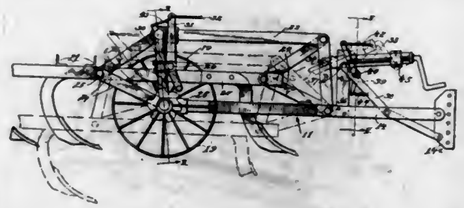
1. A holster having a downwardly turned flap forming a loop adapted to receive a belt, the lower end of said flap being provided with a strip embracing the holster body but removable therefrom in order to open said loop to permit its removal from the belt.

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1,696,709. INSECTICIDAL PLANT FOOD OR FERTILIZER. FREDERICK G. DOKKENWADEL, Mobile, Ala., assignor of one-tenth to T. W. Millner, one-tenth to V. R. Walley, one-tenth to B. M. Stevens, one-tenth to E. C. Fishel, and one-tenth to J. E. Green, Richton, Miss. Filed Nov. 19, 1926. Serial No. 149,527. 4 Claims. (Cl. 71—9.)

2. A plant food or fertilizer comprising cotton seed hulls and active fertilizing material, and insecticidal and insect repelling material incorporated with the hulls, which act as a body material or carrier to retain and gradually disseminate the active materials in soil under the action of soil moisture.

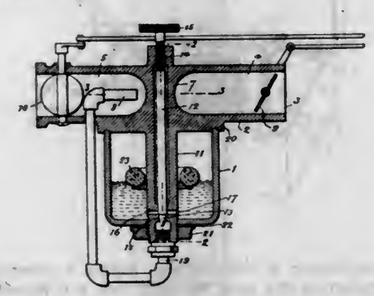
1,696,710. CULTIVATOR. GEORGE A. FLOOD, Los Angeles, Calif. Filed May 24, 1926. Serial No. 111,106. 14 Claims. (Cl. 97—73.)



1. An implement of the character described comprising a main frame, a crank axle carried by the main frame, ground wheels carried by said axle, a plow frame, an operative connection between one end of said plow frame and said axle, means operatively connected to the other end of the plow frame and to said axle whereby swinging movement of said axle will simultaneously impart a uniform amount of vertical movement to both ends of the plow frame, and operative means for latching said axle to said wheels whereby forward movement of the implement will act to impart swinging movement to the axle and thereby elevate the plow frame.

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1,696,711. CARBURETOR. FRANK C. GIVENS, Tuolumne, Calif.; Clara B. Givens administratrix of said Frank C. Givens, deceased. Filed Sept. 13, 1926. Serial No. 135,242. 1 Claim. (Cl. 261—62.)



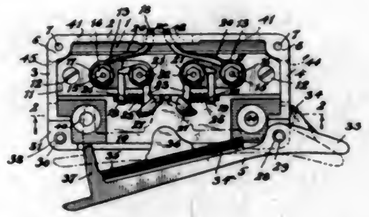
A carburetor, comprising means forming a mixing chamber formed with a central hollow post, an inlet at one end and an outlet at the opposite end, said means being also formed with a tubular extension projecting at right angles to said mixing chamber, said tubular extension being in free communication with said holow post, said tubular extension having apertures in its sides near the end thereof opposite said hollow post and a valve seat surrounding a discharge opening near said apertures, a hand operated valve extending through said hollow post and into said tubular extension for co-acting with said seat to control the flow of fuel passing out through said discharge opening, means forming a float chamber positioned to be in communication with said apertures, tubular means forming a passage-way from said discharge opening to said mixing chamber, and valves co-acting with said inlet and said outlet for controlling the entrance of air into the mixing chamber and the discharge of explosive mixture from the mixing chamber.

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1,696,712. DOOR-OPERATED SWITCH. HERBERT GLASER, New York, N. Y. Filed Dec. 23, 1927. Serial No. 242,031. 8 Claims. (Cl. 200—54.)

1. In a switch, a casing, a pair of spaced movable contacts therein, spring means for normally pressing said

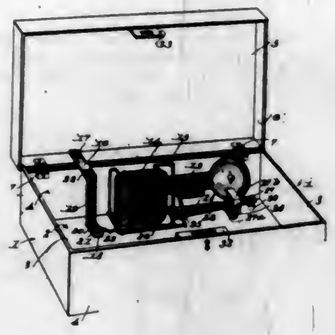
contacts toward one another, a reversible lever pivoted on said casing adjacent to one end thereof, a contact member on said lever adapted to contact with the con-



tacts within the casing when the lever is raised, and a stud at the end of the casing opposite to that at which the lever is pivoted whereby said lever may be pivoted at either end of the casing.

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1,696,713. CIRCUIT CLOSER. JOHN T. HARRIGAN, Plainfield, N. J. Filed July 12, 1923. Serial No. 651,157. 1 Claim. (Cl. 200—85.)

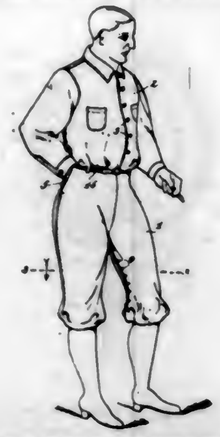


In combination a portable base having a plurality of fixed supporting feet upon its under face, a U-shaped contact member supported upon the inner face of the base with its parallel legs arranged horizontally and having electrical connection with one terminal of a source of electrical energy, a resilient switch arm fixed to the base and having electrical connection with the other terminal of the source of electrical energy, the switch arm being disposed between the parallel legs of the U-shaped member and normally urged towards the lower one to complete an electrical circuit, and a vertically movable supporting foot attached to the free end of the switch arm and normally holding the latter in a position where it will not contact with the U-shaped member while the portable base is at rest upon a support, the switch arm being operable to engage the upper horizontal leg of the U-shaped member to complete the electrical circuit in the event the movable foot is pushed manually upwardly.

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1,696,714. SEASHORE OUTFIT. NATHAN HELLER, Brooklyn, N. Y. Filed May 17, 1927. Serial No. 192,061. 4 Claims. (Cl. 2—79.)

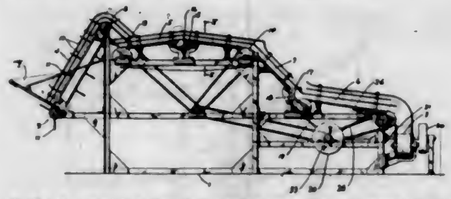
4. In a garment of the character described, leg sections having in their sides adjacent the waist line large openings normally closed by buttons and provided on the inner face, adjacent said openings with flaps, said flaps permitting the hands to be passed through the openings when said openings are unbuttoned without exposing the wearer of the garment, and an undergarment secured to the leg sections at the waist line and comprising front and rear portions, one provided with a button and the other



with a button hole, whereby provision is made for buttoning and unbuttoning the undergarment when the leg sections are donned.

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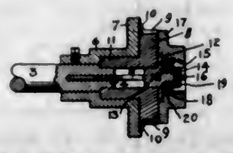
1,696,715. CAN-FEEDING MACHINE. ROBERT M. HUDDLESTON, San Francisco, Calif. Filed May 3, 1926. Serial No. 106,184. 4 Claims. (Cl. 198—33.)



4. In a machine for arranging open-ended cans, a feed hopper, a delivery conveyor, conveyor mechanism arranged between said hopper and delivery conveyor, cam-operated means for positioning the cans, so that their open ends are directed upwardly or towards the hopper, and other cam-operated means for positioning the cans in upright position with their open ends uppermost, prior to depositing them on the delivery conveyor.

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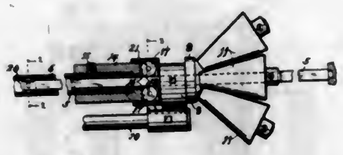
1,696,716. SHOE-HEEL-CUTTER GUARD. ERNEST L. KEENER, Newcastle, Ind. Filed Aug. 26, 1927. Serial No. 215,547. 2 Claims. (Cl. 12—88.)



1. A rotating shaft having a reduced end and a threaded bore in said reduced end, a sleeve mounted on the shaft said sleeve having a disk extension with a depression on one side, a disk having a hub mounted in the reduced end of the shaft and in the hub of the disk, and said disk also having peripheral cutters, a shaft extension having a threaded end screwed into the threaded bore of the shaft, said extension having an enlargement fitting the bore of the hub and having a disk extension bearing against the cutter disk to retain the assembly of the cutter, and a bearing disk mounted on the outer end of the shaft extension.



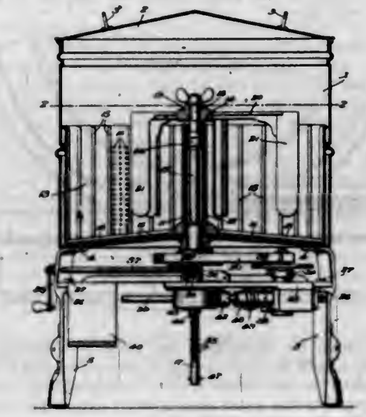
1,696,717. COP-WINDER HEAD. EDWARD F. KRUEGER, Oshkosh, Wis., assignor to Deltox Rug Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed July 9, 1926. Serial No. 121,420. 4 Claims. (Cl. 242—34.)



1. In a cop winder mechanism, a hollow drive shaft; a rotatable cop shaft longitudinally movable within said drive shaft; rollers carried by said drive shaft for transmitting rotary motion therefrom to said cop shaft, said rollers providing an anti-friction longitudinal slip connection between said shafts; and a roller carried by the inner end of said cop shaft, engaging the inner surface of said hollow drive shaft.

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1,696,718. WASHING MACHINE. HENRY F. KUHLMANN and ELENORA KUHLMANN, Indianapolis, Ind., assignors of one-half to George P. Kern, Indianapolis, Ind. Filed July 25, 1925. Serial No. 46,003. 15 Claims. (Cl. 68—15.)

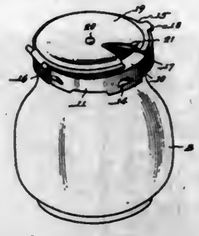


1. In a washing machine, the combination of a casing, a container therein, an agitator associated with the container, a shaft operatively connected with and for rotating the agitator for washing fabrics in the container, means for elevating the shaft, means for operatively connecting the container with the shaft for causing an elevation of the container therewith, and rotating means for the shaft causing a rotation of the container in its elevated position only, for removing the adherent liquid from the fabrics.

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1,696,719. JAR CAP. AUGUST ALEXANDER LUNDEEN, Lynbrook, N. Y. Filed June 9, 1927. Serial No. 197,677. 3 Claims. (Cl. 215—63.)

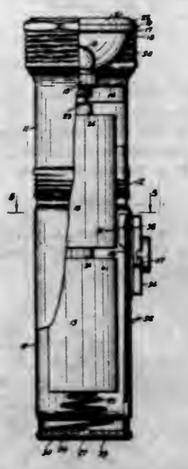
1. A cap for containers of the character set forth, including a neck embracing body detachably connected therewith and having an opening therethrough, a cover hingedly connected to said body for swinging movements to open and closed positions respectively, said cover having a notch and a rotary element on said cover having a notch for registry with the cover notch to permit the handle of a serving element to project therethrough, said rotary



element being shiftable to a position to dispose its notch out of registry with the cover notch whereby to completely close the container.

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1,696,720. FLASH LIGHT. ANKER S. LYHNE, Bridgeport, Conn. Filed Apr. 27, 1927. Serial No. 186,872. 9 Claims. (Cl. 240—10.5.)



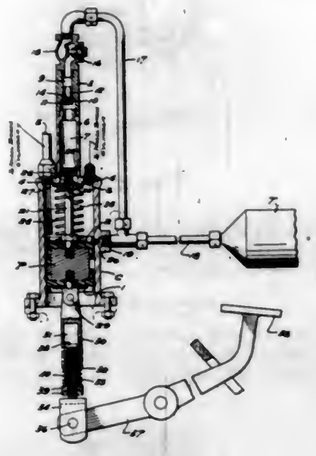
1. In a flashlight, a casing, an insulated contact, means for electrically connecting said contact to one electrode of a battery, a movable switch contact adapted to engage the first contact, means for shifting said switch contact comprising an element extending outside the casing shiftable in a direction parallel to the casing and also transversely thereof, and a guard surrounding the exposed portion of said element and movable therewith in both directions and projecting from the surface of the casing an amount at least as great as that of the element.

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1,696,721. MASTER CYLINDER FOR HYDRAULIC BRAKES. CHARLES F. MATTINGLY, St. Louis, Mo., assignor to Mattingly Automatic Valve Company, St. Louis, Mo., a Corporation of Missouri. Filed June 7, 1927. Serial No. 197,086. 5 Claims. (Cl. 60—54.6.)

1. A device of the class described comprising, in combination, a cylinder, a piston working therein, a tank, a pipe line leading from the tank to the cylinder and communicating therewith in advance of the piston, said cylinder being provided in its wall with a port in communication with said pipe line, said piston closing said port when in its normally full release position, means for effecting

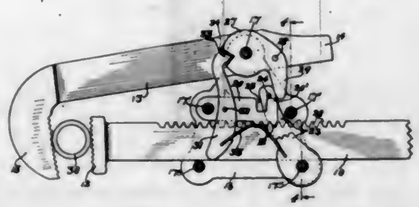
a compression stroke of the piston within the cylinder, a second pipe line leading from the cylinder in advance of the piston, means for returning the piston to its normal release position, means permitting movement of the piston



beyond its normal release position to uncover the port upon abnormal pressure in advance of the piston, and a valve interposed in the first named pipe line between the cylinder and its connection with the tank, said valve opening when the piston is in release position.

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1,696,722. PIPE WRENCH. ARTHUR J. MIEHLE, Chicago, Ill. Filed Sept. 6, 1927. Serial No. 217,560. 7 Claims. (Cl. 81—106.)

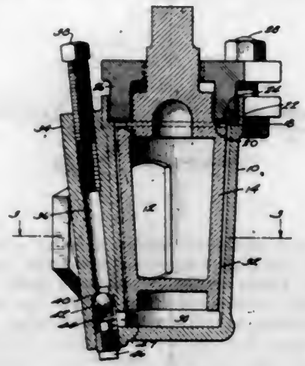


2. A pipe wrench comprising a jaw member including a handle, a jaw member which is swingable and movable longitudinally with respect to the first said jaw member, means for holding said members in their operative position, means for locking said holding means, and means on said swingable member for releasing the locking means from the holding means by the swinging of said member, thereby enabling the sliding of said swingable jaw member along the other jaw member to the full open position automatically by a sudden jerking and stopping movement of the wrench.

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1,696,723. LUBRICATED VALVE. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Milliken Valve Corporation, a Corporation of New York. Filed Mar. 16, 1928. Serial No. 262,089. 6 Claims. (Cl. 251—93.)

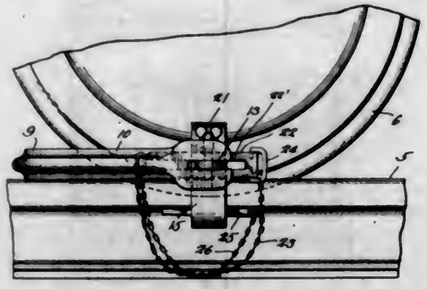
1. In a valve having a casing, a plug to fit in said casing and a stem on one end of the plug by which the same may be rotated, a shoulder on the plug adjacent the stem, a seat in the casing approximately in the same plane with the shoulder on the plug, a member adapted to surround said stem and contact with said shoulder and said seat in planes transverse the axis of the plug, means for holding



said member pressed against said shoulder and seat, a peripheral groove extending around the plug covered by said member and means for forcing grease into said groove.

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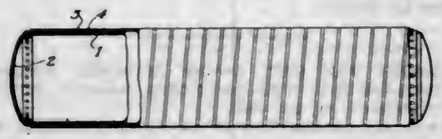
1,696,724. RAIL CLAMP. ED MULLINS, Cincinnati, Ohio, assignor of one-third to Arch. Mullins, Latonia, Ky., and one-third to Sam. Fitch Maguire, Louisville, Ky. Filed July 26, 1927. Serial No. 208,604. 2 Claims. (Cl. 188—45.)



2. A clamp for clamping a car wheel to a railway rail, including a body portion having an outer arm and an inner arm, means on the inner arm for gripping the wheel, a grip secured to the outer arm, a shaft extending from the grip and having connection with the arm, a wedge having an elongated cut out portion extending from one end thereof, said cut out portion adapted to receive the shaft when the wedge is positioned, and said wedge adapted to move the grip into close engagement with the wheel and rail.

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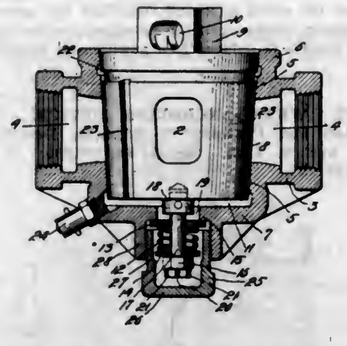
1,696,725. DRUM, PIPE, FITTINGS, ETC. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Feb. 12, 1926. Serial No. 87,987. 5 Claims. (Cl. 220—71.)



1. A tubular pressure-resisting vessel consisting of an inner tube with reinforcing rings welded in place around it and having in addition longitudinal reinforcing members.



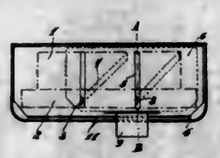
1,696,726. VALVE. SVEN JOHAN NORDSTROM, Oakland, Calif., assignor to Merco Nordstrom Valve Company, San Francisco, Calif., a Corporation of Delaware. Filed May 17, 1927. Serial No. 191,955. 8 Claims. (Cl. 251—93.)



1. A valve comprising, a casing having a passageway therethrough and a tapered seat formed transversely of the passageway, said casing being open at the side in which the larger end of the tapered seat is formed and closed at the other side, a tapered plug rotatably supported in the seat and having a hole adapted to register with the passageway, the smaller end of the plug being separated from the adjacent side of the casing to constitute a chamber adapted to receive lubricant, the larger end of the plug and of the seat in the casing being provided with cooperating circumferential grooves communicating with the chamber, the side of the casing adjacent the smaller end of the plug being provided with a central hole, a stem secured to the smaller end of the plug and projecting through the hole in the side of the casing, a spring surrounding the stem and bearing at one end against the outer side of the casing and at the other end against means carried by the stem, a circular flange surrounding the stem and spring and extending outwardly from the outer surface of the side of the casing, means for closing the outer end of the space determined by the circular flange, and means for introducing lubricant into the space surrounding the spring and stem and into the chamber between the smaller end of the plug and the adjacent side of the casing.

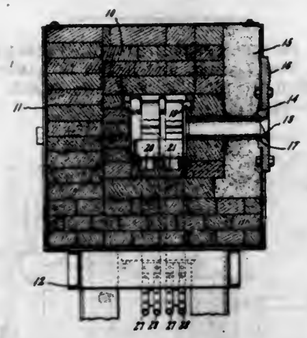
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1,696,727. POCKET CLOTHESBRUSH. NICOLAS OLMAZU, New York, N. Y. Filed Mar. 28, 1928, Serial No. 265,438, and in Belgium Jan. 13, 1928. 2 Claims. (Cl. 15—184.)



1. A pocket brush comprising in combination: a brushing element formed with a stock and hair-tufts, projecting spindles transversely mounted on the stock, a casing forming handle adapted to house the brushing element and having double walled sides, guide-ways in the inner wall of the sides of the casing extending parallel to the axis of the brushing element and adapted to be engaged by said spindles, movable plates engaging between the two walls of the sides of the casing and provided with oblique guideways adapted to be engaged by the spindles mounted on the stock, an operating knob outside the casing capable of sliding in a longitudinal groove of the bottom of the casing and connections between said operating knob and the movable plates.

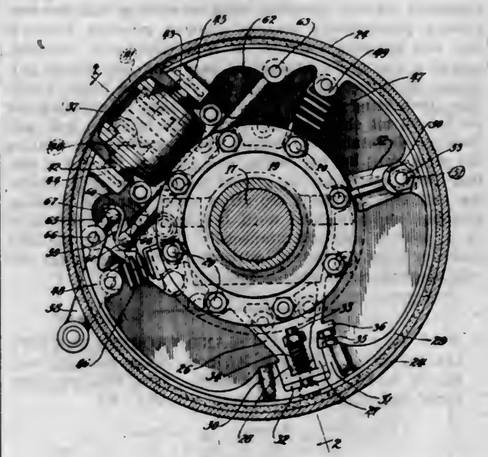
1,696,728. ELECTRIC FURNACE. ALBERT N. OTIS and CARL L. IPSEN, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Sept. 10, 1925. Serial No. 55,585. 8 Claims. (Cl. 266—1.5.)



1. An electric furnace comprising walls forming a heating chamber, a plurality of parallel bars extending across said chamber having their ends secured in opposite walls, and a heating resistor hung from said bars in a series of depending loops.

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1,696,729. BRAKE FOR VEHICLES. GEORGE JOHN RACKHAM, Chicago, Ill., assignor to Yellow Coach Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1925. Serial No. 64,292. 8 Claims. (Cl. 188—106.)

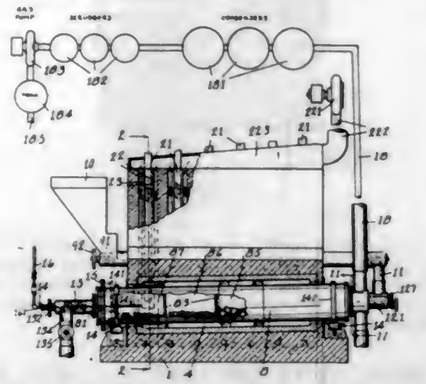


1. The combination with the axle housing and wheel hub of a motor vehicle, of an inwardly reaching brake drum secured to the wheel hub, a radially extending abutment on the axle housing and within the brake drum, a fluid cylinder secured to the axle housing at a position within the brake drum and having its axis extending tangentially at the position of the cylinder, a circular brake shoe within the drum reaching past the position of the radial abutment and having its ends terminating adjacent to the ends of the cylinder, inwardly reaching lugs on the brake shoe slidably embracing the radial abutment, spring means tending to force the shoe radially inwards at the position of the abutment, adjustable means for limiting such movement, spring means tending to force the end portions of the shoe radially inwards, a pair of oppositely working plungers within the cylinder, operative connections between said plungers and the ends of the

brake shoe, a pair of links connected to the end portions of the brake shoe at points adjacent to the plunger connections aforesaid, and means for forcing said links apart to thereby set the brake independently of fluid pressure within the cylinder, substantially as described.

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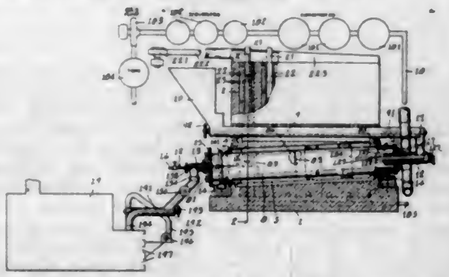
1,696,730. PROCESS FOR DISTILLING SHALE. HARRY S. REED, East Lansing, and RALPH D. LAMIE, Lansing, Mich. Filed Oct. 16, 1925. Serial No. 62,855. 4 Claims. (Cl. 202—16.)



1. The continuous process of distilling oil shale in an externally heated sealed tumbling barrel ball mill retort, subdivided by foraminous partitions into several different ball mill chambers, each succeeding partition having progressively smaller openings, each succeeding chamber containing progressively smaller angular grinding elements and ball grinding elements of heat conducting material, and of a size to be retained by each said foraminous partition, consisting in, reducing the shale to a lumpy condition, preheating the oil shale lump, then introducing the pre-heated oil shale in the lump form into the ball mill chamber containing the largest grinding elements, heating the shale until fluxing begins, and grinding the fluxed portion away, screening the ground mass to the next adjoining ball mill chamber, repeating these steps of heating, grinding, and screening until the spent shale is reduced to a powder and simultaneously flushing the distilled products from the retort, with steam to carry away the volatile products of distillation.

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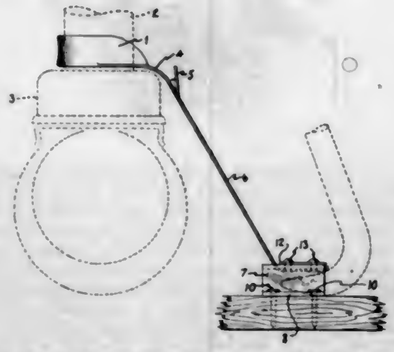
1,696,731. APPARATUS AND PROCESS FOR UTILIZING COAL. HARRY S. REED, East Lansing, and RALPH D. LAMIE, Lansing, Mich. Filed Oct. 16, 1925. Serial No. 62,856. 11 Claims. (Cl. 202—8.)



3. The continuous process of distilling solid carbonaceous material in an externally heated sealed tumbling barrel ball mill retort containing angular grinding elements and ball grinding elements of heat conducting material admixed in proportion to insure the flowing tumbling action of such grinding elements consisting in, continuously introducing and subjecting said material in a lumpy condition to the simultaneous tumbling action resulting from the rotation of said retort and the grinding action of such elements to progressively heat the said material lumps until coking begins at the surface, grinding away the coked part and repeating the operation on the residuary lumps until the volatiles are distilled away and the residue is reduced to a powder and discharged.

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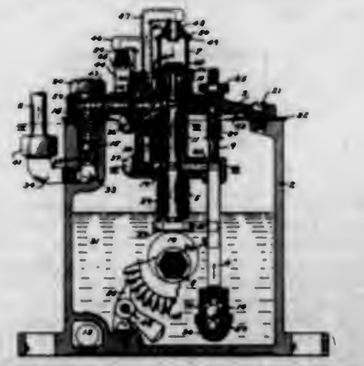
1,696,732. WHEEL-ANCHORING DEVICE. OTIS K. RICHARD and CLEMENT C. RICHARD, Detroit, Mich. Filed Apr. 3, 1925. Serial No. 20,339. 3 Claims. (Cl. 188—32.)



2. A wheel anchoring device comprising a strap iron bent to a U-shape in its midsection providing a collar to engage about a spoke of the wheel and legs extending outwardly therefrom, and a pair of foot portions each comprising a sheet metal plate bent to substantially U-form with apertured outwardly extending side flanges for attachment to a wheel supporting surface the high point of the U portion having a slot and the ends of the legs being inserted through the slot and return bent over the upper face of the respective plate providing an unobstructed space therebeneath for introduction of a detaching implement, and a rivet extending through the return bent end, the plate, and portion of the leg therebeneath.

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1,696,733. OIL PUMP. EUGENE M. SCOVILLE, Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Danville, Ill. Filed June 9, 1922. Serial No. 567,064. 10 Claims. (Cl. 184—27.)

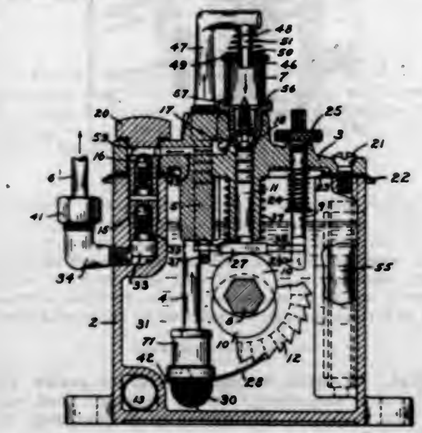


10. In combination, a casing forming a liquid reservoir, a discharge valve located within an integral portion of said casing, a pump unit comprising a cylinder and a plunger detachably associated with said casing, and driving mechanism for said plunger permanently secured to said casing below the normal liquid level in said reservoir, said unit being operable by said mechanism to urge liquid from said reservoir past said valve and being removable from said casing and said mechanism without permitting escape of liquid toward said reservoir past said valve.

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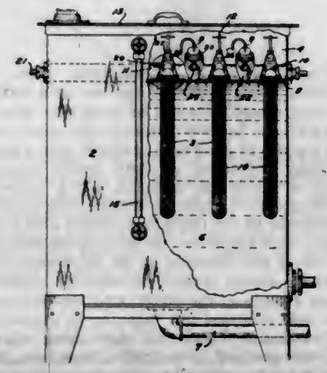
1,696,734. OIL PUMP. EUGENE M. SCOVILLE, Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Danville, Ill. Filed Sept. 22, 1922. Serial No. 589,748. 3 Claims. (Cl. 184—27.)



1. In combination, high and low pressure pump plungers, a cross-head having its medial portion rigidly attached to said high pressure plunger and having one end portion operatively connected to said low pressure plunger through a lost motion connection, an adjustable stop cooperating with the opposite end portion of said cross-head for limiting the movement of said plungers in one direction, resilient means coacting with one side of the medial portion of said cross-head for moving the same toward said stop, and means cooperating with the opposite side of the medial portion of said cross-head for moving the same in the opposite direction.

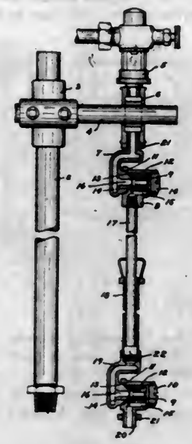
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1,696,735. OIL FILTER. EUGENE M. SCOVILLE, Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Danville, Ill. Filed May 24, 1923. Serial No. 641,075. 11 Claims. (Cl. 210—43.)



1. In a combination, a support, a divided perforated rigid sack retainer detachably connected to said support, and a flexible sack located within said retainer and removable therefrom by separation of said retainer divisions.

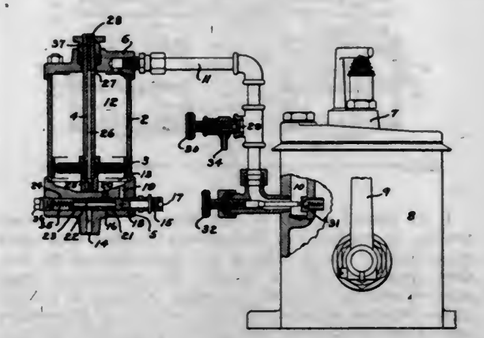
1,696,736. TELESCOPIC OILER. EUGENE M. SCOVILLE, Milwaukee, Wis., assignor of one-half to Floyd L. Swanberg, Danville, Ill. Filed Sept. 20, 1923. Serial No. 663,916. 7 Claims. (Cl. 285—9.)



1. In combination, a pair of elements having mutual coaction along spherical surfaces, one of said elements having a tubular projection penetrating said surfaces and communicating with the interior of said other element and said other element having a conduit extending from said interior transversely of the axis of said projection, and a removable closure cap associated with said other element in line with said projection.

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1,696,737. GREASE CUP. EUGENE M. SCOVILLE, Cincinnati, Ohio, assignor of one-half to Floyd L. Swanberg, Pittsburgh, Pa. Filed May 5, 1927. Serial No. 188,949. 11 Claims. (Cl. 184—40.)



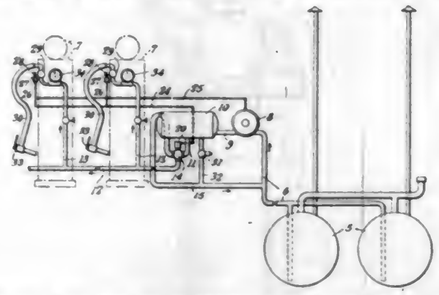
5. In combination, means forming a grease chamber, a piston within said chamber, means for applying oil under pressure to said piston to deliver grease from said chamber, and means including a by-pass for automatically introducing said oil into said chamber through said piston and thence to the point of delivery only when said piston has reached the end of its stroke.

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1,696,738. LIQUID-DELIVERY SYSTEM. GEORGE W. STEDWELL, Brooklyn, N. Y., assignor of one-half to Francis Sheridan, New York, N. Y. Filed May 9, 1928. Serial No. 276,266. 15 Claims. (Cl. 221—95.)

1. In liquid delivery systems, the combination with a supply line and a delivery line, of pump means for trans-

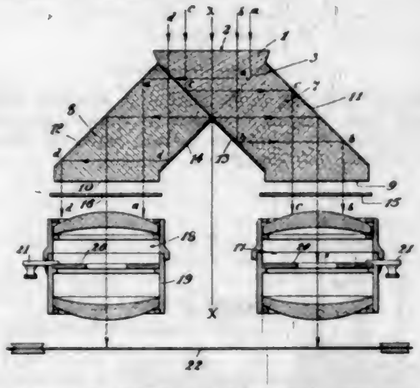
ferring liquid from the supply line to the delivery line, means for controlling discharge from the delivery line means for arbitrarily starting the pump when a delivery is to be made and for stopping the pump when the discharge is completed and bypass means automatically operable after each delivery for relieving the pressure in the



delivery line and for by-passing excess flow away from the delivery line said latter means including a bypass in connection with the delivery line and continually open to the supply line when the pump is not transferring liquid from the supply to the delivery side of the apparatus.

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1,696,739. COLOR PHOTOGRAPHY. CLIFFORD LE ROY TRELEAVEN, Jackson Heights, N. Y., assignor to Color Cinema Productions, Inc., New York, N. Y., a Corporation of Delaware. Filed June 2, 1926. Serial No. 113,316. 2 Claims. (Cl. 88—1.)

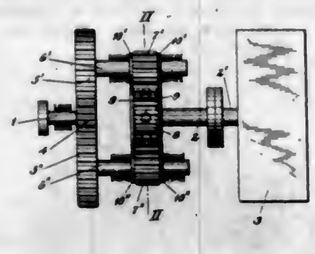


1. An optical system of the character described comprising, in combination, two mirrors crossing each other at a common line parallel to the center line of the incident component of the system, the portions of these mirrors anterior to said line being silvered in parallel strips disposed perpendicular to said line of intersection and having intermediate transparent strips, the portion of each mirror posterior to said common line being reflecting overall, and a reflecting mirror parallel to each of said posterior reflecting portions, spaced therefrom and positioned in the path of rays reflected therefrom, said mirrors constituting means for dividing the incident beam of light into two beams which are geometrically alike and follow like optical paths.

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1,696,740. GEARING. MICHAEL TRESCHOW, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a Corporation of New Jersey. Filed Jan. 24, 1927, Serial No. 163,009, and in Denmark June 17, 1926. 3 Claims. (Cl. 74—7.)

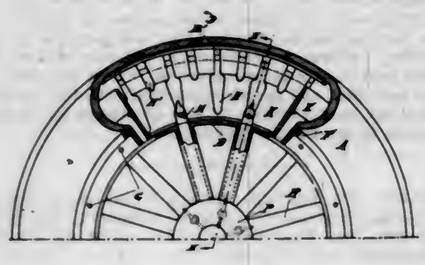
1. A system of gearing comprising a main driving shaft and gear mounted in fixed bearings, two intermediate shafts on opposite sides of the axis of the driving shaft and having gears for engagement with the gear on the driving shaft and having also each a transmitting gear, and a main driven shaft also mounted in fixed bearings,



and in which is included a floating gear loosely mounted on and connected with one of said main shafts to rotate therewith but to be displaceable in a direction substantially at a right angle to the plane of its supporting shaft.

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1,696,741. ELASTIC WHEEL. CONSTANT ADRIEN VAN BOURGONIE, Bergerhout-Antwerp, Belgium. Filed Sept. 2, 1925, Serial No. 54,109, and in Belgium Sept. 18, 1924. 1 Claim. (Cl. 152—8.)



In an elastic wheel, the combination with a wheel frame including a hub, spokes and a rim, of a solid rubber annular elastic element formed on each side with an annular hollowed out portion adjacent its inner periphery and having a series of grooves cut radially across same, said grooves having alternately a depth nearly equal to the whole depth of the elastic element, and a lesser depth; two rigid flange-like annular lateral guiding members secured to the edges of the rim and on either side respectively of the said elastic element; metal U-pieces placed on the rim of the wheel and engaging at the sides with the inner periphery of the elastic element at intervals corresponding to the deeper grooves of the latter, said U-pieces each having at each side a lateral pin engaging in a recess of the flange-like guiding members; an outer cover placed over the elastic element and said guiding members, the said outer cover having a circumferential groove formed in its inner periphery to receive and engage with the outer peripheral portion of the elastic element; and detachable means for securing the circumferential edge portions of the said outer cover against the outer faces of such guiding members adjacent the rim of the wheel.



1,696,742. BOTTLE CAP. RUDOLF WM. VON SYDOW, Glendale, Calif., assignor of one-half to Edward G. Burghard, Los Angeles, Calif. Filed Aug. 23, 1926. Serial No. 130,962. 2 Claims. (Cl. 215—38.)



1. In a bottle cap, means forming a closure, and a flange therefor arranged to cover the edge of the bottle opening, said flange having a plurality of small depressions therein forming vacuum cups to hold the cap in place when applied to the opening.

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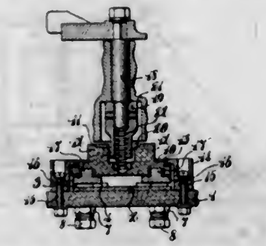
1,696,743. CARRIER USED IN MAKING BOOK AND OTHER MATCHES. WILLIAM ERASTUS WILLIAMS, Wilmette, Ill. Filed Feb. 26, 1927. Serial No. 171,206. 11 Claims. (Cl. 93—7.)



1. In a match carrier of the class described, engaging points and flat projections on one edge of the strip and driving engaging means on the other edge of the strip.

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1,696,744. ELECTRIC CONTROLLING DEVICE. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Original application filed July 22, 1918, Serial No. 246,219. Divided and this application filed Apr. 16, 1923. Serial No. 632,332. 14 Claims. (Cl. 200—11.)

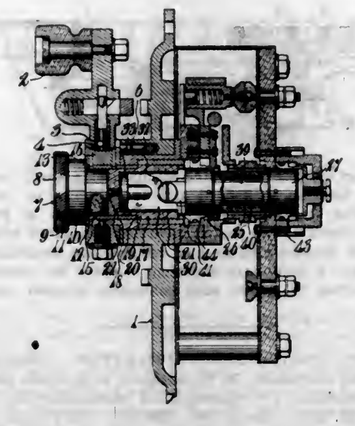


1. In a switch, a plurality of flat stationary contacts, a plurality of separate flat movable contacts adapted to bear always uniformly on said other contacts, a rotatable plate by which said movable contacts are loosely guided, an operating member for actuating said plate and connected to the latter, and resilient means acting on said plate for forcing said contacts together.

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1,696,745. FUSE MECHANISM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Aug. 10, 1923. Serial No. 656,691. 5 Claims. (Cl. 200—133.)

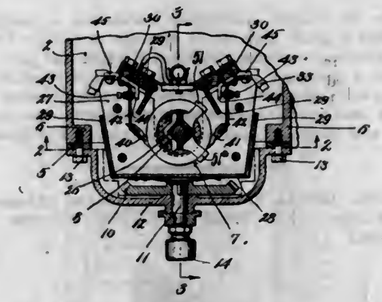
1. In a fuse member, a hollow cylinder of insulating material, heads of conducting material at each end thereof, one of said heads providing a seat extending longitudinally of the cylinder and the other an annular shoulder, a cartridge fuse having projecting terminals one adapted to engage said seat and the other to be bent into a position parallel to the plane of said shoulder, a segmental conducting element adapted to be supported on said



shoulder between the fuse cartridge and bent terminal, means for forcing said element onto said shoulder and said bent terminal into contact with said element, and an insulated grasping portion connected to said first mentioned head.

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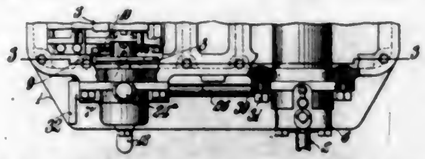
1,696,746. CONTROLLING MECHANISM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Mar. 24, 1924. Serial No. 701,594. 11 Claims. (Cl. 200—8.)



8. A controller for the current of an electric circuit comprising a reversely operable rotatable drum having two sets of contacts, one set adapted to direct current in one direction in the circuit and the other set adapted to direct current in the opposite direction in the circuit, a plurality of said contacts being disposed in a single transverse plane, additional contacts carried by said drum, and cooperating contacts for all of said contacts, the contacts of each set being so arranged that upon movement of said drum in one direction from a zero point one set will successively engage said cooperating contacts and upon movement in the other direction from said zero point the other set will successively engage said contacts, said additional contacts remaining in constant engagement with their cooperating contacts as said drum is moved from zero to full position.

11. A controller comprising a rotatable drum having a plurality of operating positions, intermeshing gears for actuating the same, and means including an element engaging one of said gears for yieldably holding said drum in its various operating positions.

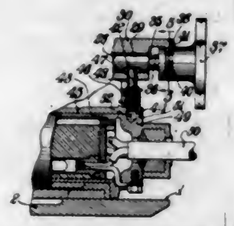
1,696,747. INTERLOCKING MECHANISM. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 5, 1925. Serial No. 73,525. 9 Claims. (Cl. 200—51.)



1. In an electric controlling mechanism, a shaft mounted only for rotation on a fixed axis and adapted on rotation in opposite directions from a given position to produce different circuits, and means including a member rotatable with said rotatable shaft and reciprocable longitudinally thereof and a stationary abutment member for controlling the direction in which said controller member may be moved.

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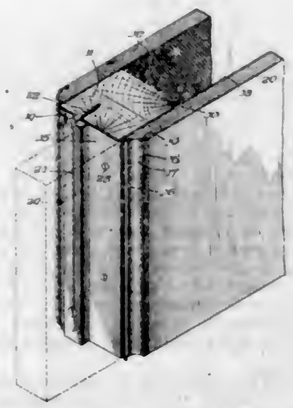
1,696,748. CONTROLLING APPARATUS. CHARLES W. WYMAN, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Nov. 26, 1926. Serial No. 150,850. 16 Claims. (Cl. 200—50.)



1. In an electric controlling mechanism, a controller including a shaft movable in opposite directions from a given position to produce different circuits, and means including a grasping handle mounted on said shaft for moving said controller, said handle being adjustable relative to said shaft to selectively control the direction in which said controller may be moved from said position.

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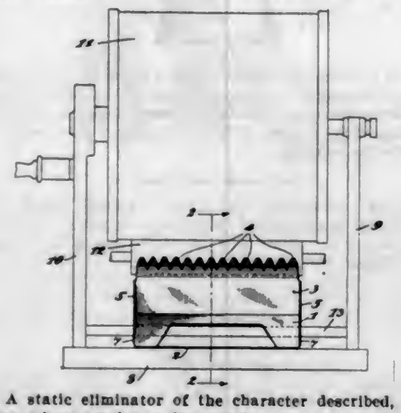
1,696,749. METAL TRIM. ISAAC A. BAUM, Chicago, Ill. Filed July 5, 1927. Serial No. 203,388. 3 Claims. (Cl. 72—98.)



1. In means of framing an opening in a wall, the combination of a support, a jamb divided longitudinally to form two sections, said sections being secured to said support, the margins of the sections being bent to provide plaster terminals, and a door stop mounted over and covering the gap formed by the longitudinal division of the jamb.

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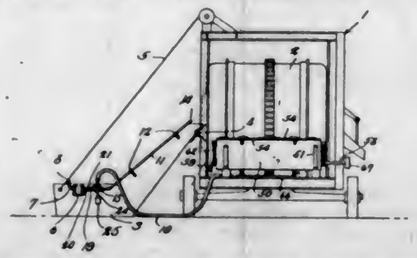
1,696,750. STATIC-DISCHARGE DEVICE FOR ROTARY STENCIL DUPLICATING MACHINES. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed May 8, 1925. Serial No. 28,768. 3 Claims. (Cl. 175—264.)



1. A static eliminator of the character described, comprising a base portion, a foot portion, and an upright portion having a comb-like upper edge providing curved fingers or contact points and consisting of conducting material, said eliminator being adapted to be associated with a rotary stencil duplicating machine in such position that work being delivered from the machine passes over the curved fingers in contact therewith and the eliminator contacts a metallic frame element of the machine to form a ground connection.

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1,696,751. ATTACHMENT FOR CONCRETE MIXERS. RUSSELL C. BURKET, Pottsville, Pa. Filed Dec. 16, 1927. Serial No. 240,538. 3 Claims. (Cl. 83—73.)



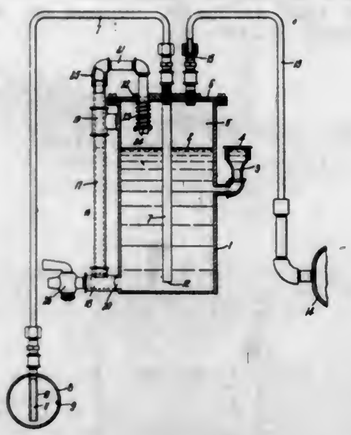
1. In a device of the class described, a mixing drum, a loading skip therefor, a measuring receptacle, means providing a liquid inlet and a liquid outlet for the receptacle, means providing an opening to the atmosphere from said receptacle, means for mounting the receptacle on said skip in such position that the outlet will discharge into said drum when the skip is raised, and gravity-operated valve means responsive to the movement of the receptacle with the skip to open the inlet when the receptacle is lowered, and to close the inlet when the skip is raised.

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1,696,752. HUMIDIFIER FOR INTERNAL-COMBUSTION ENGINES. ERNEST CARTER, Melrose Highlands, Mass. Filed Jan. 3, 1927. Serial No. 158,614. 2 Claims. (Cl. 123—25.)

1. A humidifier of the character described comprising, in combination, a container, liquid partly filling said container, whereby a chamber is formed therein above said liquid, means to connect said chamber with the intake manifold of an internal combustion engine, a pipe extending through said chamber and liquid and communicating with the exhaust passage of said engine and adapted to discharge exhaust into said container below the level of said liquid, and a deflector within said passage to divert a portion of the exhaust from said engine into said pipe.





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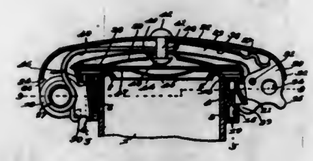
1,696,753. APPAREL HANGER. EDWARD H. CLARKE, Peoria, Ill. Filed Feb. 18, 1926, Serial No. 98,087. Renewed Apr. 13, 1928. 2 Claims. (Cl. 211—32.)



1. As an article of manufacture, an apparel hanger comprising a wire having one end constituting a support engaging screw, an upper arm extending substantially in alinement with said screw and having that end portion opposite from said screw extending upwardly out of said alinement and terminating in a support for hats comprising a loop which extends in substantially horizontal plane transverse to said upper arm, and a lower arm constituting a coat hanger and comprising said wire extending first downwardly at right angles to said screw, secondly thence outwardly, and thirdly thence upwardly and terminating in a comparatively broad second loop as compared to said first loop and constituting a garment support for holding the shoulders of a coat, which extends in a plane transverse to the line of said lower arm, said second loop being supported midway of its ends at its forward edge and thence extending diagonally downwardly and rearwardly with a free and unsupported edge of said loop located between said first downwardly extending and said third upwardly extending portions of said lower arm, all of said upper and said lower arms with the exception of each of said loop portions being of a plurality of twisted strands of said wire.

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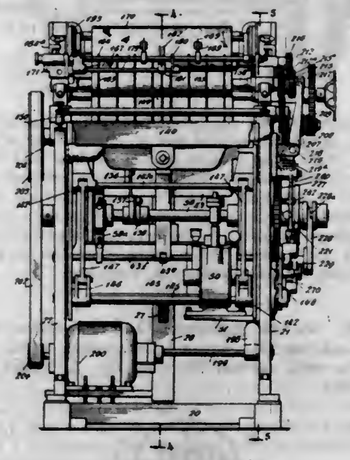
1,696,754. TANK-RISER CLOSURE. LOU C. ELLER, Spokane, Wash., assignor, by direct and mesne assignments, to Lockit Cap Company, a Corporation of Washington. Filed Apr. 11, 1927, Serial No. 182,827. Renewed Oct. 11, 1928. 8 Claims. (Cl. 220—24.)



2. In a closure structure for tanks having a riser comprising, an anchoring adapter band adapted to outwardly telescope the riser and having an offset portion, a case hardened screw adapted to be turned into said offset portion to coact with the latter and a portion of the periphery of said riser to lock said band on said riser, a closure structure for said riser, and means for movably mounting said closure structure on said band.

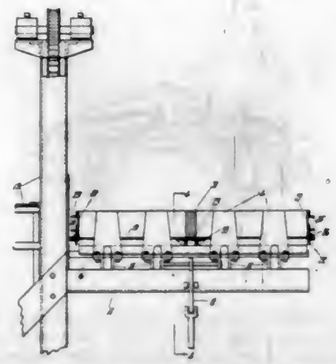
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1,696,755. GUMMING MACHINE. MARTIN FEYBUSCH, New York, N. Y., and PAUL W. FLEISCHER, Weehawken, N. J., assignors to New Jersey Machine Corporation, Hoboken, N. J., a Corporation of New Jersey. Filed Apr. 1, 1925. Serial No. 19,821. 14 Claims. (Cl. 271—28.)



1. In a gumming machine, a support for a stack of sheets, a suction head movable to and from said stack for removing and transferring the uppermost sheet from said stack, a plurality of nozzles for directing a current of air between the sheet being removed and the top surface of the stack, and means to move said nozzles out of the path of movement of said suction head during the initial movement of said head.

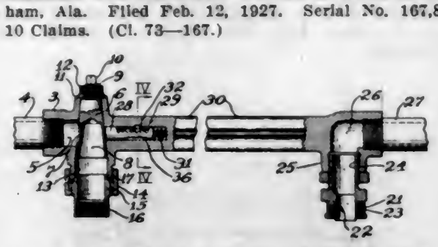
1,696,756. MULTIPLE MOLD. STEPHEN FLAM, Walnut Park, Calif., assignor to Supertile Machinery Corporation, Los Angeles, Calif., a Corporation of California. Filed Apr. 26, 1926. Serial No. 104,719. 5 Claims. (Cl. 25—41.)



1. In combination, a portable vertically movable support, an apertured bottom plate supported thereon and capable of removal by relative movement between it and the support, and separating plates fastened to the support and arranged to project through the apertures in the bottom plate to form mold spaces.

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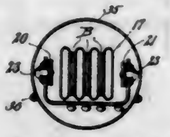
1,696,757. SUSPENDING AND CONTROLLING HEADER FOR METERS. WILLIAM B. FORD, Birmingham, Ala. Filed Feb. 12, 1927. Serial No. 167,842. 10 Claims. (Cl. 73—167.)



1. A header of the character described, comprising gas inlet and outlet connections and an arm joining said connections, there being a valve seat in the gas inlet connection, a turnable plug in said seat having exposed means to operate it, said plug having a gas flow passage therein for registration with the gas inlet when in open position, a lock plunger mounted in the arm and adapted to interlock with the passage in the plug when the plug is in closed position, substantially as described.

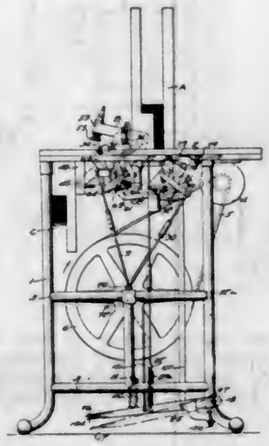
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1,696,758. WATER HEATER. ARMANDO GALDI, Somerville, and ERIC S. PETERSON, Lexington, Mass. Filed Aug. 2, 1926. Serial No. 126,370. 5 Claims. (Cl. 219—39.)



1. A heater of the character described comprising a pair of hollow one-piece end manifolds, one having an inlet adapted to be connected with a supply pipe and the other having an outlet adapted to be connected with a delivery pipe; a plurality of tubes directly connected at their ends with said manifolds and connecting the interiors of the latter and electric heating units arranged between said tubes.

1,696,759. AUTOMATIC SELECTIVE ATTACHMENT FOR ADDRESSING MACHINES. ERWIN A. GEIGER, Westfield, and AUGUST F. SCHRAEGLE, Roselle, N. J., and HENRY T. JENNINGS, Glendale, N. Y., assignors, by mesne assignments, to Elliott Addressing Machine Company, a Corporation of Massachusetts. Filed Aug. 14, 1926, Serial No. 129,134. Renewed Oct. 19, 1928. 18 Claims. (Cl. 101—58.)



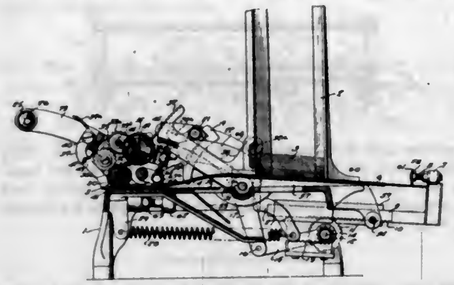
1. In an addressing apparatus comprising a series of address bearing strips, some of which are provided with classifying features, inking and impression mechanisms, means for feeding said strips successively to said inking and impression mechanisms, connecting mechanism between said card feeding means and said impression mechanism capable of being temporarily disabled so as to render the impression mechanism idle while card feeding continues and a selector mechanism adapted to be actuated by the classifying features of certain of said strips, the combination, with said above described apparatus, of means for temporarily disabling said connecting mechanism, which means is adjustable by the operator to convert said selector mechanism from one which will cause the machine portion of the apparatus to print from a card having a given classifying feature to one which will cause said machine portion to skip said card and discharge it without printing therefrom.

15. In an addressing machine comprising a swinging platen, a constantly moving cam, a lever pivoted to said platen and carrying a roller adapted to be engaged by said cam to swing said platen when said lever is in one position, the combination, with said above recited elements, of selective mechanism adapted to swing said lever so that said roller is kept out of contact with said cam.

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1,696,760. HAND-OPERATED ADDRESSING MACHINE. ERWIN A. GEIGER, Westfield, and ADOLPH GEIGER, Elizabeth, N. J., assignors, by mesne assignments, to Elliott Addressing Machine Company, a Corporation of Massachusetts. Filed Nov. 16, 1927. Serial No. 233,539. 19 Claims. (Cl. 101—48.)

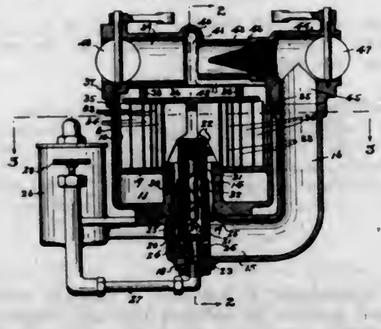
1. In a hand operated printing apparatus employing stencils, the combination, with a main frame, a series of said stencils and means for feeding them consecutively into printing position on said main frame, of an ink bearing pad, a lever system for pressing said pad down upon any stencil in printing position on said main frame, a handle for operating said lever system, and means



whereby a uniform pressure exerted on said handle may be progressively increased upon said pad as said handle approaches its final pressure exerting position.

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1,696,761. VAPORIZER FOR LIQUID FUELS. ERNEST R. GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economizer System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed Sept. 5, 1924. Serial No. 736,024. 2 Claims. (Cl. 261—79.)



1. In a vaporizing device, means operative under low air velocity for producing an initial mixture of liquid fuel and air for delivery thereto, comprising an air intake member providing a substantially tubular passage arranged to receive air at its lower end, a foraminous liquid fuel support of tubular form concentric to and axially disposed within said air intake member, a liquid fuel delivery means in which the lower portion of said fuel support is submerged and by which it is in turn supported, and said liquid fuel delivery means also having air admission means leading into the interior of said fuel support from said air intake member whereby the air stream delivered through the latter simultaneously moves in part through the interior and in part around the exterior of said fuel support, an internal spiral fin cooperative with the inner surface of said fuel support, and an external spiral fin cooperative with the outer surface of said fuel support.

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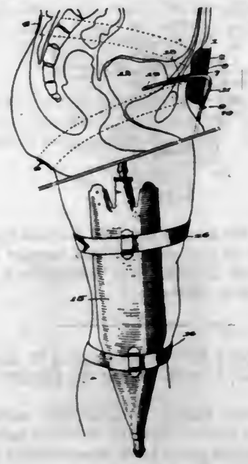
1,696,762. GERMICIDAL COMPOUND. JAMES JEFFRIES GOODWIN, Louisville, Ky., assignor to Goodwin Laboratories, Inc., Louisville, Ky., a Corporation of Kentucky. Filed Nov. 22, 1927. Serial No. 235,114. 6 Claims. (Cl. 167—22.)

1. A germicidal compound for preparing germicidal aqueous solution, comprising a mixture of soap including salts of the fatty acids common to cocoanut oil and palm nut oil, and tri-sodium phosphate.





1,696,763. SUPRAPUBIC SIPHON. CHRISTOPHER E. HARB, Rochester, Minn. Filed Apr. 6, 1927. Serial No. 181,467. 7 Claims. (Cl. 128—349.)



1. An article of the character described including a cushion having an enlarged opening therein, a pad secured over said cushion and having a registering orifice of smaller diameter than the opening, and a catheter extending through the orifice and opening.

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1,696,764. LINTEL BAR. STEPHEN S. HERRICK, Oakland, Calif. Filed Oct. 24, 1927. Serial No. 228,191. 2 Claims. (Cl. 189—37.)



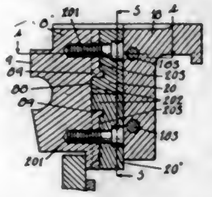
1. A lintel bar comprising a pair of angle bars adapted to span a window opening and a third bar disposed between the angle bars and riveted thereto, said third bar forming a spacer between the angle bars and the lower edge of said bar being disposed above the base flanges of the angle bars so that a longitudinally extending slot is formed between the base flanges of the angle bars.

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1,696,765. CHUCK JAWS. GEORGE F. HOPKINS, Jackson, Mich.; William K. Sagendorph executor of said George F. Hopkins, deceased. Original application filed Feb. 28, 1925, Serial No. 12,331. Divided and this application filed Jan. 21, 1926. Serial No. 82,685. 8 Claims. (Cl. 279—123.)

1. In a jaw structure, the combination of a master jaw, an adjustable jaw having screw thread engaging means car-

ried thereby, a jaw support divided transversely into two parts fitting in suitable seats on the face of the master jaw, cross countersunk screws in said parts for retaining the



same in place on the master jaw, and a recess in each of the meeting portions of said parts of said support and having an adjusting means in said recess comprising a screw with end journals in said bearings.

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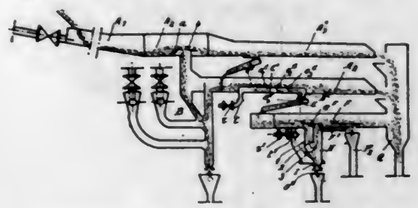
1,696,766. PEANUT BUTTER. DONALD W. HOWE, Biloxi, Miss. Filed Dec. 6, 1927. Serial No. 238,237. 7 Claims. (Cl. 99—11.)

1. Peanut butter having substantially uniformly distributed therein a soluble clogging reducing agent in finely powdered form presenting a large area whereby it is adapted to be rapidly dissolved by the saliva.

6. The process of producing a food product comprising grinding peanuts and substantially uniformly distributing therein during the grinding, a mixture of salt and a powdered sugar whereby the tendency of the peanut butter to stick to the mouth is reduced.

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1,696,767. METHOD OF WASHING COAL, ORES, AND OTHER SIMILAR MATERIALS, AND AUTOMATIC WATER-CURRENT SEPARATOR FOR CARRYING THE METHOD INTO PRACTICE. LÉON HOYOIS, Gilly, Belgium. Filed Feb. 18, 1927, Serial No. 169,349, and in Belgium Feb. 25, 1926. 9 Claims. (Cl. 209—18.)



1. Improvements in the method of washing materials such as ores, coals and the like consisting in dividing the body of material to be treated into two portions, one portion comprising most of the light particles and the other portion comprising most of the dense particles, extracting the denser particles from the light portion and extracting the lighter particles from the dense portion, subsequently mixing the particles extracted from each of said portions to form a residual mass composed of mixed products with relatively small proportions of heavy and light particles; removing from said mass all other particles than the light particles together with a very small proportion of the latter, regrading the removed portion into mainly heavy particles and mainly mixed particles, the latter including the light particles, and causing the successive elimination of the heavy particles and of the mixed particles while the elimination of the remaining light particles is avoided.

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1,696,768. ANIMAL TRAP. GEORGE NORMAN IRWIN, Whitby, Ontario, Canada. Filed Feb. 21, 1928. Serial No. 255,990. 2 Claims. (Cl. 43—61.)

1. An animal trap comprising a hollow open ended member of buoyant material adapted to partially submerge and having vertical opposing guides in the inner face of the side walls adjacent to each end of the member, transverse slits in the bottom wall extending between the guides, a spring pressed closure plate slidably lifting within each pair



of guides and withdrawable through the slit, and a tread plate located within the member, locking means for holding the closure plates in the withdrawn position, and means operated by pressure upon the tread plate for releasing such locking means.

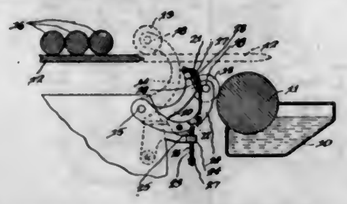
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1,696,769. METHOD OF PRODUCING CONDENSATION PRODUCTS FROM CRUDE CRESOL AND ACETONE. HANS JORDAN, Berlin-Steglitz, Germany, assignor to the Firm: Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Filed Oct. 25, 1927, Serial No. 228,701, and in Germany Oct. 26, 1926. 1 Claim. (Cl. 260—150.)

The method of recovering separately the constituents from a mixture of the products obtained by condensation of crude cresol and acetone, comprising dissolving the product in ether and separating the m-cresol acetone condensation product which has crystallized out.

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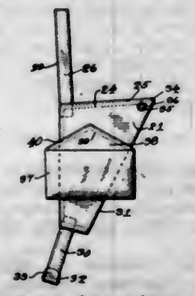
1,696,770. PRINTING PRESS. CHARLES F. LANG, Chicago, Ill. Filed May 27, 1927. Serial No. 194,777. 3 Claims. (Cl. 101—344.)



1. In combination, an ink plate, a fountain roller, a feed roller mounted for swinging movement adapted to carry ink from said fountain roller to said plate, a shaft supporting said feed roller, means adapted to frictionally engage said shaft to cause rotation thereof during said swinging movement, said means embodying a resilient portion for maintaining the frictional engagement between said engaging means and roller.

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1,696,771. PINCUSHION FOR SEWING MACHINES. ANNA J. LARSON, Naugatuck, Conn. Filed May 26, 1927. Serial No. 194,321. 3 Claims. (Cl. 223—60.)



1. In a pin cushion attachment for a sewing machine, a supporting strip of flexible material, cooperating means on opposite edges of said strip for encircling the head of said machine, said strip having an eye for engaging the spool-holding spindle of the sewing machine head for holding it in fixed position, and a pin cushion pad carried by said supporting strip.



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1,696,772. POLE. ADOLPH W. MALONE, Fillmore, Utah, assignor of one-third to Albert H. Vestal, Anderson, Ind., and one-third to Edwin S. Healy, New York, N. Y. Filed Sept. 24, 1928. Serial No. 307,981. 6 Claims. (Cl. 189—26.)



1. A pole comprising a plurality of longitudinal sections disposed in abutting end to end relation, and clamping means securing the sections together, each section of said pole being made up of a plurality of independent members having complementarily formed interlocking elements, substantially as set forth.

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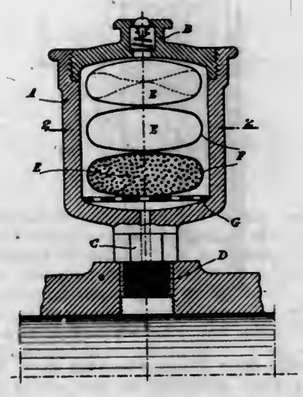
1,696,773. POLE. ADOLPH W. MALONE, Fillmore, Utah, assignor of one-third to Albert H. Vestal, Anderson, Ind., and one-third to Edwin S. Healy, New York, N. Y. Filed Sept. 24, 1928. Serial No. 307,982. 4 Claims. (Cl. 20—98.)



1. A pole comprising a plurality of leg sections, clamping means binding said leg sections toegther adjacent one end, and adjustable spacing means adjacent the other end maintaining said leg sections apart, said adjustable spacing means comprising a brace and adjustable means adjacent each end of the brace for clamping engagement with opposite sides of each of said leg sections, substantially as set forth.

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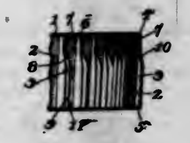
1,696,774. SELF-FEEDING LUBRICATOR. EMILE MARTIN, Grenoble, France. Filed Apr. 21, 1927, Serial No. 185,543, and in Belgium Apr. 21, 1926. 5 Claims. (Cl. 184—38.)



1. A grease cup having filling and discharge openings and also having an expanded member in said cup, disconnected therefrom, totally immersed in the grease in the cup when the latter is full and active by its own expansion to force grease from the cup through the discharge opening.

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1,696,775. SANITARY HEADREST COVER. CHARLES C. MARTZ, Vineland, N. J., assignor to Sayford Paper Specialty Company, Vineland, N. J. Filed Oct. 29, 1928. Serial No. 315,825. 4 Claims. (Cl. 155—173.)



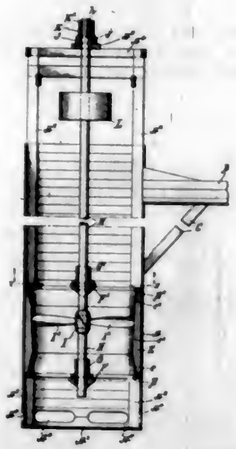
1. A headrest cover comprising, a flexible member bent upon itself to provide a body portion and a depending skirt portion extending thereabout, said skirt portion formed throughout with spaced plaits having the end portions thereof adjacent the bend between the body and skirt portions of less height than the remaining portions of said plaits whereby said skirt portion may normally lie flat against said body portion without being folded upon itself.

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1,696,776. LOW-LIFT PUMP. SIDNEY L. MENGE, New Orleans, La. Filed Mar. 9, 1928. Serial No. 260,527. 1 Claim. (Cl. 103—103.)

A propeller pump comprising a casing provided with a lower or suction chamber and an upper or delivery chamber, with means for admitting water to the lower

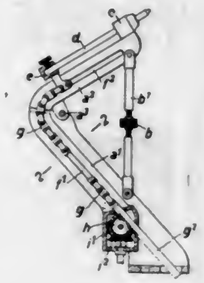
chamber, and for carrying it off from the upper chamber, a partition mounted between said chambers and provided with a bore in the form of the frustum of a slightly tapered inverted cone, said partition being provided with



frusto conoidal faces flaring outwards above and below said obre, a shaft journalled in said casing concentric with said bore, and a screw propeller mounted on said shaft and having the tips of its blades in close proximity to said bore.

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1,696,777. HOLDER FOR ARC-LAMP CARBONS. FRANZ MEYER, Jena, Germany, assignor to the Firm Carl Zeiss, Jena, Germany. Filed Feb. 8, 1928, Serial No. 252,910, and in Germany Feb. 21, 1927. 3 Claims. (Cl. 176—119.)

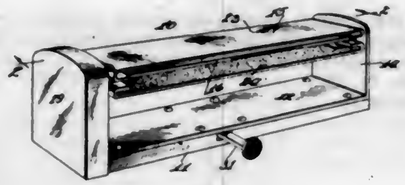


1. A holder for the one of the carbons of an arc lamp, comprising a carrier adapted to be fixed on the casing of the arc lamp and provided with a groove, a sliding piece displaceably supported on this carrier, means for fixing a carbon on this sliding piece, a chain fixed with its one end on this sliding piece and guided in the said groove, a device for displacing the chain, and means connecting this device to the other end of the chain.

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1,696,778. HONING AND STROPPING DEVICE. ALEX. PASCOO, Bronx, N. Y. Filed Oct. 17, 1927. Serial No. 226,698. 3 Claims. (Cl. 51—198.)

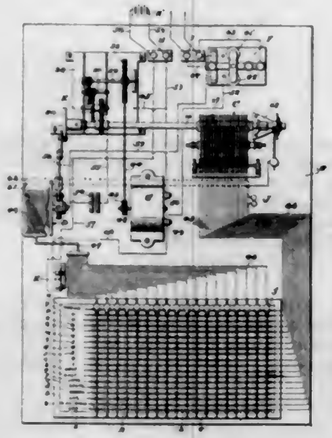
1. In a razor sharpening device, a rotatable stropping element having different stropping surfaces on opposite sides thereof, spring means normally holding one of said stropping surfaces face up, and manually operable means for imparting a turning movement to said rotatable stropping element against the action of said spring means



to reverse the position of said stropping surfaces, said last means including a gear segment fixedly attached to said stropping element, and a slidable rack member coacting therewith.

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1,696,779. AUTOMATIC RADIO TELEGRAPHIC TRANSMITTER. PEDRO C. ANDUX Y PEREZ, Habana, Cuba. Filed Aug. 25, 1927, Serial No. 215,441, and in Cuba Feb. 4, 1927. 7 Claims. (Cl. 178—83.)



1. An apparatus for the purpose set forth comprising, a signal combining mechanism including a plurality of permanent signal indicators, each having a terminal, a signal distributing mechanism, means for selectively forming an electrical contact between the respective signal indicator terminals and the distributing mechanism, means for forming a signal for each of said signal indicators and for transmitting said signal to the corresponding terminal, and a relay electrically connected with the distributing mechanism for flashing the selected signal.

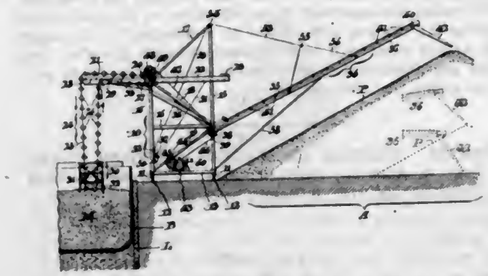
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1,696,780. MATERIAL-HANDLING APPARATUS. CHARLES G. PFEIFFER, Philadelphia, Pa., assignor to Specialty Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1926. Serial No. 153,513. 4 Claims. (Cl. 198—91.)

1. A material handling apparatus of the type described comprising a portable supporting structure with pairs of spaced verticals, one pair being considerably higher than the other, with intervening bracings, a counter-balanced out-board boom pivoted to the shorter verticals with the



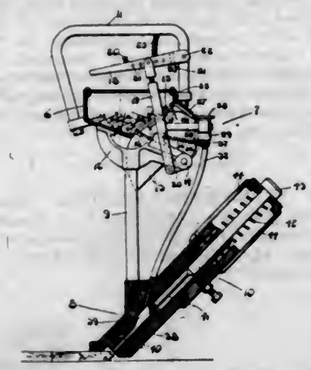
inner portion laterally expanded outwardly of the higher verticals, an elevating conveyer with a material penetrating boot supported by the counter-balanced boom, an in-board boom fulcrumed to the higher verticals with a delivery conveyer trained thereabout, the pivotal axes



of the booms serving as the drivers for the respective conveyers, a chute intermediate said conveyers, a prime mover on the supporting structure, and drive connections from the prime mover to the pivotal axes aforesaid for actuating the conveyers at synchronized speed to thereby continuously transport the material handled.

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1,696,781. NAIL DRIVER. ALFRED T. PHILLIPS, Norwood, Ohio. Filed Dec. 20, 1927. Serial No. 241,805. 3 Claims. (Cl. 1—46.)



3. A nail driver comprising a hopper, an agitator in the hopper, a slot in the hopper terminating inclinedly on the outer side of the hopper through which slot the agitator moves in and out causing nails to engage and to be moved therethrough, a delivery tube adjacent to the outer inclined slot's bottom, a notched disc rotatively mounted to receive a nail from the slot into the notch and delivering the nail to the tube upon rotation of the disc, a manually operated lever adapted to synchronize the movements of the agitator and disc, a nail receiving foot at the end of the delivery tube and an anvil on one of its sides, the receiving foot's upper end terminating cylindrically, a sleeve in the cylinder and receiving foot, and a spring retracted nail punch operable in said sleeve for driving a nail positioned therein.

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1,696,782. METHOD OF MAKING ALKYL ISOALKYL CYCLOHEXANOLS. WALTER SCHOELLER, Berlin-Westend, and HANS JORDAN, Berlin-Steglitz, Germany, assignors to the Firm: Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Filed Oct. 25, 1927, Serial No. 228,686, and in Germany Oct. 26, 1926. 4 Claims. (Cl. 260—158.)

1. The method of producing alkyl isoalkyl cyclohexanols, comprising first decomposing by heating the condensation products obtainable from alkylated phenols and ketones, thereafter hydrogenating the mixture of the products of decomposition until eight hydrogen atoms have entered into combination, and finally separating from the mixture the hydrogenated alkyl isoalkyl phenols.

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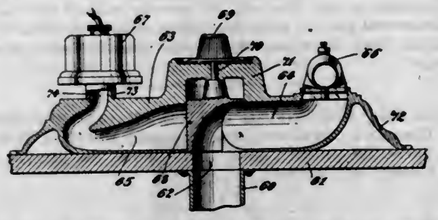
1,696,783. GLUE DISPENSER. TATSUO WAKABAYASHI, San Francisco, Calif. Filed Jan. 31, 1927. Serial No. 164,902. 1 Claim. (Cl. 91—67.4.)



In combination with a glue dispenser and the neck thereof, of a sponge positioned in the neck of the container and protruding therefrom and means for preventing a seepage of the glue through the neck of the container, said means comprising a collar secured to the neck of the container and having an annular recess, a celluloid member interposed between the collar and said sponge, a securing cord positioned in the recess of the collar and a removable inner cover for said sponge adapted to contact said collar.

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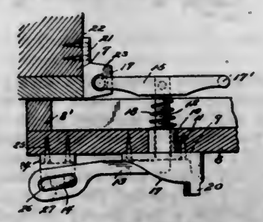
1,696,784. ACOUSTIC APPARATUS. MAXIMILIAN WEIL, New York, N. Y. Filed May 20, 1924, Serial No. 714,574. Renewed Nov. 12, 1928. 26 Claims. (Cl. 179—100.1.)



1. In apparatus of the character described, in combination, a phonograph amplifier having a throat, a tone arm for communication with said throat, a fixed conduit of generally ram's-horn shape having its wider end delivering into said throat and adapted for mounting a telephone receiver at its restricted end, said conduit having substantially sound-tight means extending lengthwise thereof to block communication with the tone arm.

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1,696,785. LATCH FOR SLIDING DOORS. PETER P. WELTY, Pandora, Ohio. Filed Feb. 17, 1928. Serial No. 255,077. 6 Claims. (Cl. 292—205.)



1. The combination with a door frame and a door, said door being provided with a recess upon the face side thereof,

of a latch device therefor including a member carried by the door and capable of rotary and longitudinal movement, a latch member carried upon the inner end of the same and adapted when in latching relation to be projected beyond and out of the recess, and when in released position to be seated within the recess, means attached to the frame for engaging the latter when external of the recess, and means externally of the door for operating the rotary member.

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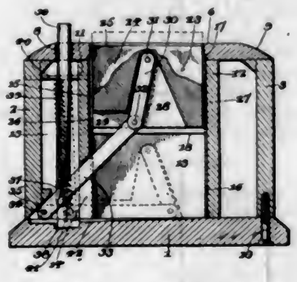
1,696,786. INSTEP-ARCH SUPPORT. JONATHAN T. WOOD, Chatham, Ontario, Canada. Filed Dec. 2, 1926, Serial No. 152,189, and in Canada Apr. 29, 1926. 1 Claim. (Cl. 36—71.)



An instep arch supporter comprising an arch plate of spring sheet metal longitudinally curved but straight transversely; a leather cover piece fitted to the arch plate and having its inner side extending materially beyond the inner edge of the arch plate and curved upwardly; padding between the arch plate and cover extending up against the outer surface of the upwardly curved side of the leather cover so as to form a cushion between the upper of the wearer's shoe and the leather cover; a spring support for the arch plate adapted to engage the insole of the shoe at opposite ends of the instep comprising a spring leaf of sheet metal secured to the arch plate; and a spring plate secured at one end to the arch plate and extending under the device past the end of the spring leaf and the arch plate, said sheet metal base plate being adapted to engage the insole of the shoe only at opposite ends of the instep, the central part of said base plate normally tending to lie spaced from the spring support and thus forming a second support.

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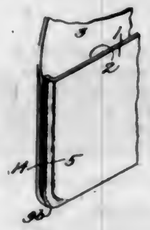
1,696,787. DISPENSING DEVICE. NATHAN ZELKOWITZ, HERMAN L. ZELKOWITZ, and BENJAMIN BRAYMAN, Wilkes-Barre, Pa. Filed Oct. 3, 1927. Serial No. 223,726. 1 Claim. (Cl. 312—79.)



A dispensing device comprising a casing provided with opposed spaced partitions to form an article containing compartment and further provided at its top with a discharge slot communicating with said compartment, a vertically movable ejector member travelling through said compartment and formed with a recess having an inverted V portion and a rectangular portion projecting laterally from the V portion, a link having its upper end pivoted in said V portion, a lever arm pivoted at one end to the lower end of said link and operating in said rectangular portion, means for pivotally connecting the other end of said lever to the casing at a point removed from said compartment, a vertically movable spring controlled plunger positioned in said casing adjacent said compartment and having its lower end pivotally connected to said lever in proximity to the point of connection between the lever and said casing and operated in one direction by its controlling spring for shifting said ejector in a direction to discharge an article from said compartment through the slot, and said partitions and ejector having coacting means to provide guides for the ejector.

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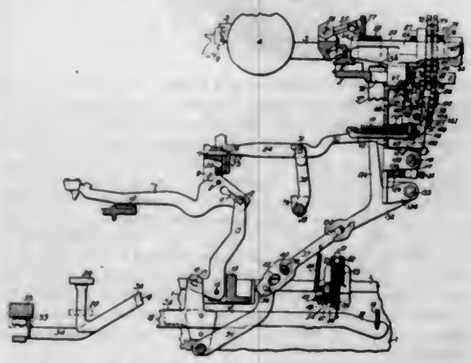
1,696,788. METHOD OF MAKING LEATHER CASES. CARL G. ALDRICH, Medford, Mass. Filed May 5, 1926. Serial No. 106,918. 6 Claims. (Cl. 69—21.)



1. The method of finishing the seam connecting the marginal portions of the walls of a leather case of the character described which consists in compressing the two flaps of the seam edgewise simultaneously throughout their length and width while they are left free to expand laterally in the direction of their thickness thereby molding said flaps into a relatively low finished bead whose opposite sides overlie the stitches of the seam.

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1,696,789. TYPEWRITING MACHINE. EDWIN E. BARNEY, New Rochelle, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 31, 1926. Serial No. 158,286. 15 Claims. (Cl. 197—82.)



15. Escapement devices for a writing machine, comprising three cooperating toothed wheels having parallel axes of rotation, means for moving one of said wheels bodily transversely of the other two wheels to afford escapement movements, and independently operable key actuated means for affording intermittent rotative movements of said bodily movable wheel while it is held against bodily movement and thereby afford an intermittent step-by-step feed movement of the carriage.



1,696,790. SHOE-LACE-FASTENING DEVICE. ANTONIO BONGIOVANNI, Barnesboro, Pa., assignor of one-fourth to Jess Fridman, Barnesboro, Pa.; one-fourth to Samuel Irving Callet and one-fourth to Tobias J. Callet, Johnstown, Pa. Filed Apr. 30, 1928. Serial No. 274,080. 8 Claims. (Cl. 24—117.)



1. A shoe lace fastening device comprising a base member securable to the tongue of a shoe, a clamping member rockably mounted on said base member intermediate the ends of the two members so that the front end of the rockable member may be raised to permit a lace to be placed between it and the base member, said members having teeth on their confronting surfaces to engage and prevent the lace from slipping, and means for yieldingly holding the two members together with the lace clamped therebetween; said means embodying a spring-plate secured to the base-plate and having arched portions or grooves opposing said base-plate within which oval hinge pins carried by the clamping member are clamped against the base-plate, said spring-plate in conjunction with said hinge pins serving to yieldingly resist movement of the rockable member toward an intermediate point and on passing said point to accelerate its movement into either raised or clamping position according to the direction of movement.

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1,696,791. SHOE-LACE-FASTENING DEVICE. ANTONIO BONGIOVANNI, Barnesboro, Pa., assignor of one-fourth to Jess Fridman, Barnesboro, Pa., and one-fourth to Samuel Irving Callet, Johnstown, Pa. Filed May 14, 1927. Serial No. 191,330. 4 Claims. (Cl. 24—120.)

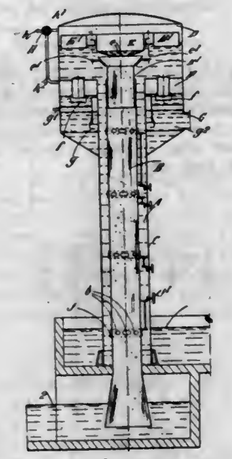


1. In combination with a shoe having a tongue and means for applying a cord or lace to secure the edges of the vamp or uppers together, a duplex lace fastening device comprising a base member and a clamping member pivotally secured on opposite sides of an intermediate supporting member of oblong form transversely of the tongue of the shoe; said base member being pivoted to the tongue; said members being foldable one upon another so as to adapt them to clasp the ends of the cord or lace and firmly secure them together by a double fold.

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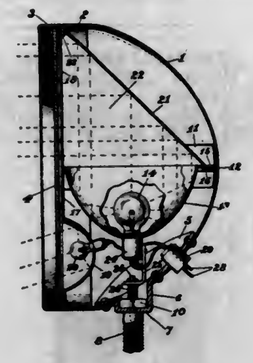
1,696,792. APPARATUS FOR RAISING LIQUIDS. JENS ORTEN BOVING, Westminster, London, England. Filed Feb. 10, 1926, Serial No. 87,370, and in Great Britain May 28, 1925. 8 Claims. (Cl. 137—20.)

1. Apparatus for raising a liquid by the head or difference in level between a high level portion of said liquid and a low level portion of said liquid, comprising in combination a chamber arranged above the level of the high level liquid, a conduit extending downwardly from said chamber and communicating at its lower end with the high level liquid so as to constitute a supply conduit, a discharge conduit extending downwardly from said chamber and discharging at its lower end into the low level liquid, said conduits constituting in conjunction with said chamber a siphon serving by the descent of the liquid in the discharge conduit to draw liquid up the supply conduit, an air induction device at the upper end of said discharge conduit serving during the siphoning action to cause air from said chamber to be entrained in the liquid entering said discharge conduit, and means for automatically causing a portion of the liquid to be intermittently discharged from said chamber to the atmosphere at a point substantially above the high level liquid without breaking the continuity of the siphoning action.



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1,696,793. HEADLIGHT. JOSEPH P. C. CHARLEBOIS, Toronto, Ontario, Canada. Filed Feb. 17, 1927. Serial No. 168,940. 1 Claim. (Cl. 240—41.)

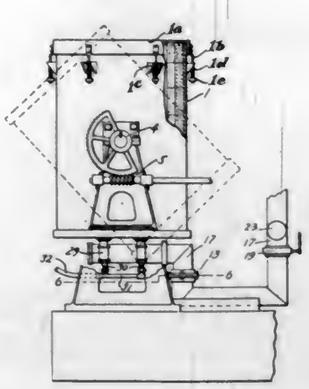


A headlight including a substantially semi-circular casing, a band secured to the inner surface of the casing at substantially its mid-height and formed to provide a lateral inwardly projecting flange, a plate arranged at the forward portion of the casing and masking the lower half thereof, a parabolic reflector arranged in the casing with its axis at right angles to the axis of the casing, the upper edge of said reflector having a lateral flange secured at its forward edge to the upper edge of said plate and interlocked at its rear edge with the flange of said band, a plane reflector overlying the parabolic reflector with an edge outline corresponding substantially in shape and di-

mensions to that of the parabolic reflector, the lower edge of the plane reflector being supported on said band flange in rear of the parabolic reflector and the upper edge of the plane reflector bearing against the forward edge of the casing, said plane reflector including side portions curving substantially concentric with the casing with their free edges engaging the casing at the forward edge of the latter, and a source of illumination within the parabolic reflector.

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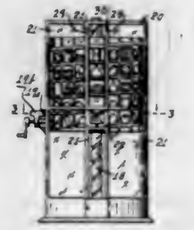
1,696,794. APPARATUS FOR HEAT TREATMENT OF MATERIALS. THOMAS S. CURTIS, Huntington Park, Calif., assignor, by mesne assignments, to The Vitrefrax Corporation, Los Angeles, Calif., a Corporation of California. Filed Aug. 6, 1926. Serial No. 127,601. 4 Claims. (Cl. 263—33.)



1. A converter of the class described comprising a receptacle, a refractory lining therefor and yieldable retainer means on said receptacle engaging with said lining and accommodating the expansion of the lining when heated, and means for treating the material in the receptacle.

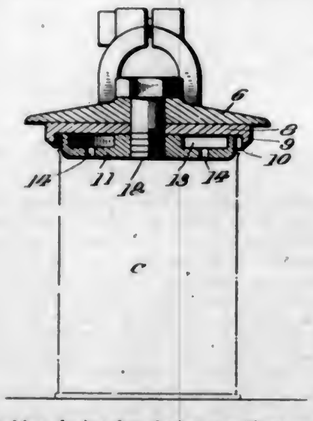
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1,696,795. MANUALLY-SELECTIVE VENDING MACHINE. WILLIAM C. CUTLER, Glendale, Calif., assignor, by mesne assignments, to Selective Automatic Manufacturing Corporation, Los Angeles, Calif., a Corporation of California. Filed Sept. 2, 1925. Serial No. 54,073. 3 Claims. (Cl. 312—35.)



1. In a selective vending machine, a casing provided with a closure movable to open and closed positions respectively, a spirally grooved shaft in said casing, a revoluble magazine threaded on said shaft to ascend said shaft as the magazine is revolved; said magazine provided with a plurality of article holding pockets arranged in a spiral series whereby revolution of said magazine will bring the pockets successively into registration with said closure.

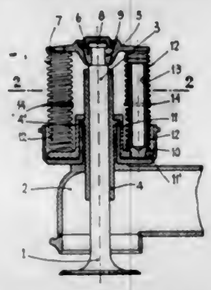
1,696,796. PACKING DEVICE FOR FILLED-CAN-CLOSING MACHINES. HENRY A. FINK, Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 5, 1926. Serial No. 146,444. 4 Claims. (Cl. 226—71.)



1. A packing device for closing machines comprising a packing pad adapted to be moved into the can body for depressing the floating content thereof, and a cutter surrounding and spaced from said packing pad adapted to move down over the can body and cut off any content of the can body overlying the flange of the can body.

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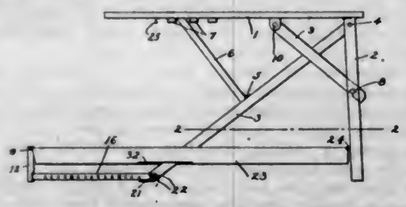
1,696,797. SPRING-CONTROLLED GEAR. GUIDO FORNACA, Turin, Italy. Filed Nov. 26, 1927, Serial No. 235,953, and in Italy Aug. 25, 1927. 9 Claims. (Cl. 123—90.)



1. In a spring operated gear, a return spring comprising a number of sections, said sections being included serially between a stationary part and a movable part of said gear.

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1,696,798. IRONING BOARD. CLARA BROWNING GOODMAN, Ithaca, N. Y. Filed Aug. 25, 1926. Serial No. 131,475. 6 Claims. (Cl. 68—10.)



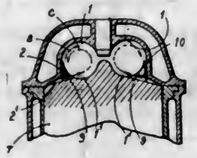
1. An attachment for self-supporting ironing tables having an ironing board supported by leg sections spaced



apart lengthwise of the board, with one end of the board projecting, over which end clothes to be ironed may be passed, said attachment comprising an upright supporting member, arms articulately connected to the end portions of said member with their free ends movable approximately horizontally toward and from one another, the free ends of the arms being formed for attachment to one of said leg sections with said member resting upon the floor and disposed transversely of and beyond the free end of the board, and a sheet connected to said member, extending below and endwise of said board, and formed for attachment to one of said leg sections.

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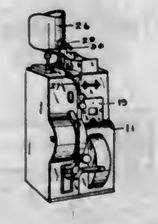
1,696,799. INTERNAL-COMBUSTION ENGINE OF THE TWO-STROKE TYPE. GEORGES HELD, Brussels, Belgium. Filed Mar. 25, 1927, Serial No. 178,452, and in France Apr. 12, 1926. 2 Claims. (Cl. 123—32.)



1. In an internal combustion engine, a cylinder, a cylinder head for said cylinder, said cylinder head being provided with an inverted substantially semi-toroidal channel, and a piston adapted to reciprocate in said cylinder, the top of said piston being slightly conical and provided with a central trunconical extension, the upper diameter of which is slightly less than the outer diameter of the channel in said cylinder head, the top of said extension being provided with a substantially semi-toroidal channel oppositely disposed to the channel in said head, said channels having generatrices of equal diameters and having their directrices coinciding with each other and with the axis of said piston, whereby as the piston approaches the limit of its upward travel, a toroidal combustion chamber will be formed, a plurality of inclined conduits provided in the wall of said extension and connecting the annular space between the top portion of said piston and the side wall of the cylinder head with the channel in said piston, whereby the air entering through said conduits will effect a whirling motion of the explosive mixture inside the toroidal combustion chamber in a counter clockwise direction.

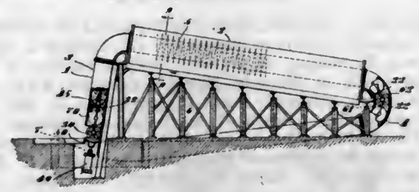
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1,696,800. FIRE-EXTINGUISHING APPARATUS. CHARLES A. HELM, Cleveland, Ohio. Filed Mar. 10, 1926. Serial No. 93,660. 4 Claims. (Cl. 169—2.)



1. In an apparatus of the character described, in combination with a moving picture machine, a volatilizing element arranged in the path of a portion of the light rays from the projecting lamp so as to receive heat from said rays, means for supplying a volatile fire extinguishing medium to said element and means for directing the volatilized fire extinguishing medium in the path of the film carried by said moving picture machine.

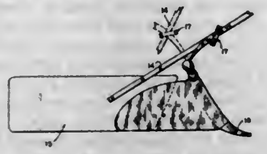
1,696,801. HEAT-TREATING APPARATUS. LESLIE E. HOWARD, Lockport, N. Y., assignor to Simonds Saw and Steel Company, Fitchburg, Mass., a Corporation of Massachusetts. Filed Nov. 16, 1926. Serial No. 148,689. 9 Claims. (Cl. 214—18.)



1. The combination of heat-treating apparatus having an upwardly inclined entrance passage and conveyor mechanism to transport articles through the apparatus, said mechanism comprising a series of rolls, a jack adjoining the entrance passage, said jack having a plunger adapted to push the rolls into the same, and means to hold the rolls in advanced position when so pushed to permit retraction of the plunger and addition of another roll to the series.

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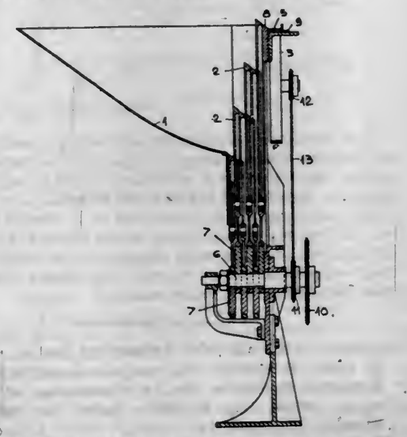
1,696,802. FENDER EXTENSION. FRANK P. KAUFMAN, Grand Island, Nebr. Filed Dec. 6, 1927. Serial No. 238,088. 5 Claims. (Cl. 97—192.)



1. An attachment for cultivator fender blades, said attachment including a rigid finger and a link having means for securely engaging the fender support with said finger inclined downwardly and forwardly in front of the fender blade, a ball and socket joint between said finger and said link, and means for locking said ball and socket joint against movement when said finger and said link are in adjusted position.

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1,696,803. FEEDING DEVICE FOR MANUFACTURING AND WRAPPING OF SWEETMEATS AND THE LIKE. KARL FRITTIOF KRONQVIST, Helsinki, Suomi-Finland. Filed Apr. 10, 1925, Serial No. 22,140, and in Suomi-Finland Feb. 10, 1925. 5 Claims. (Cl. 198—59.)

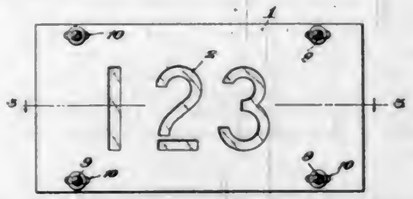


4. A dispensing device for hoppers comprising a plurality of coincidentally disposed slidable plates, means for trans-

mitting motion to said plates whereby articles within said hopper will be transferred from one plate to the next adjacent plate and means cooperating with one of said plates for receiving articles transferred thereto.

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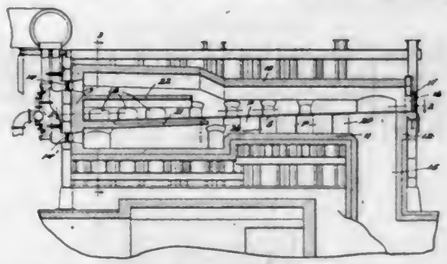
1,696,804. AUTOMOBILE LICENSE-PLATE HOLDER. GEORGE J. LAPIERRE, Pawtucket, and THOMAS A. GILLIGAN, Providence, R. I.; said Gilligan assignor of one-twentieth to Annie P. Bonin, Pawtucket, R. I., one-tenth to Julian C. Marx, Providence, R. I., and one-twentieth to Louis J. G. Martelle, Leo McKenna, and Leo V. Boyle, Pawtucket, R. I., and one-twentieth to Joseph W. and Emma Plante, Woonsocket, R. I. Filed May 4, 1928. Serial No. 275,051. 2 Claims. (Cl. 40—133.)



1. In an automobile license plate holder, a plate having its sides and ends flanged rearwardly and having indicia-forming cutouts, an inopaque member engaged with the rear of the plate and with said flanges so as to be held in position by the latter, a back member having a central dished portion and having outwardly directed flanges at its side and end edges disposed parallel to the plate and engaged with the inopaque member and with the plate flanges, a source of light at the center of the rear of the back member, and attaching screws extending through the said plate, through the inopaque member and through the flanges of the back member.

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1,696,805. CONTINUOUS HEATING FURNACE. CHARLES E. LEHR, Bethlehem, Pa., assignor to Bethlehem Steel Company, a Corporation of Pennsylvania. Filed Apr. 6, 1923. Serial No. 630,327. 3 Claims. (Cl. 263—6.)

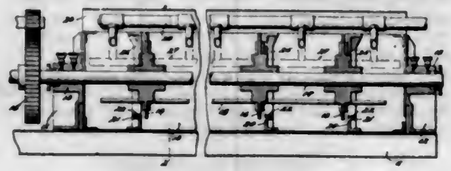


1. A continuous heating furnace having a heating chamber provided with openings at opposite ends for the introduction and withdrawal of blanks, means to support said blanks in their travel through the furnace, ports disposed at the outlet end of the furnace so as to project the flame into the heating chamber from points above and below the said means and muffle walls disposed above and below said blank supporting means, whereby the blanks are shielded from direct contact with the flame.

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1,696,806. DEVICE FOR TREATING RODS. CHARLES E. LEHR, Bethlehem, Pa., assignor to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed July 9, 1923. Serial No. 650,464. 3 Claims. (Cl. 266—6.)

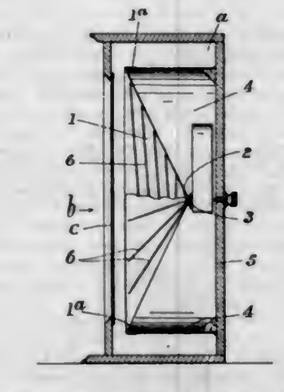
1. In a machine for treating tubes or rods, the combination of a vat, a rotatable shaft extending longitudinally of the vat, a plurality of discs secured to the shaft and having aligned open recesses therein, guides arranged adjacent to the discs and having guiding surfaces disposed



inwardly of the peripheries of the discs, feeding means cooperating with the guides, and means cooperating with the outlet end portions of the guides to assure the removal of treated rods or tubes from the discs recesses.
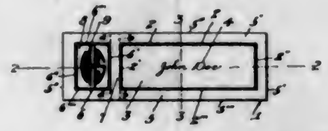
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1,696,807. DIAPHRAGM FOR TELEPHONE INSTRUMENTS. ERIC VINCENT MACKINTOSH, New Malden, and CYRIL FRENCH, Hampton Wick, Kingston-on-Thames, England. Filed Aug. 13, 1926, Serial No. 129,015, and in Great Britain Oct. 24, 1925. 3 Claims. (Cl. 181—31.)



1. A loud speaker comprising a case, a cylindrical frame located within the case and secured at the inner edge thereto, and a conical diaphragm having a maximum diameter corresponding to the diameter of the frame, the outer edge of the diaphragm being secured to the outer edge of the frame and the apex of the diaphragm extending inwardly of the frame.

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1,696,808. CARD. DONALD F. MATSON, Monessen, Pa. Filed Sept. 25, 1926. Serial No. 137,719. 4 Claims. (Cl. 281—1.)



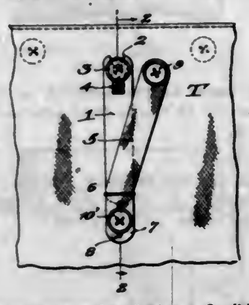
1. A visiting card comprising a rectangular body portion provided with means to constitute the name of an individual and a monogram, said monogram spaced a substantial distance from the name of the individual, said body portion further formed with opposed, spaced depressed parts to provide a pair of panels and a border of uniform thickness throughout extending entirely around each of the panels, one of the panels carrying said monogram and the other



said name, a part of said border being common to said panels and formed by said part of the body portion positioned between the panels, that part of the body portion positioned between the panels in connection with the remaining portion of said border forming a border of uniform width throughout and extending entirely around one of said panels on the severence of said body portions transversely at one of the edges of the opposed edges of said depressed parts.

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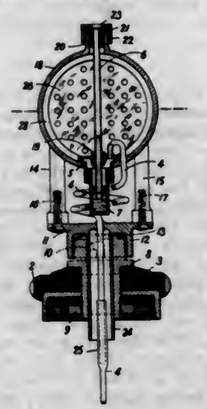
1,696,809. TROUSER-SUPPORTING DEVICE. JOHN W. MEIKLEJOHN, Pawtucket, R. I. Filed Sept. 22, 1927. Serial No. 221,294. 5 Claims. (Cl. 241—25.)



1. In a trousers supporting device, a flexible strip having a forked upper end to engage a trousers button and the fastener of said button, a fabric loop carried by the strip formed to engage over the button so as to hold the strip in position, and a fabric tape secured between its ends to the strip and having its lower end extending below the strip and formed with a buttonhole to engage a second button on the trousers, said tape having a suspender engaging button on its upper end.

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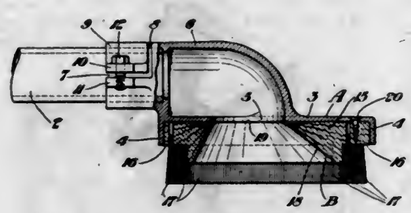
1,696,810. RADIATOR FOR MOTOR CARS AND THE LIKE. ALBERT MOND, London, England. Filed Feb. 12, 1926, Serial No. 87,969, and in Great Britain Feb. 17, 1925. 5 Claims. (Cl. 73—54.)



1. Apparatus for automatically indicating the level of liquid cooling media in radiators of internal combustion engines of automotive vehicles, comprising a hermetically closed chamber containing a gaseous fluid, a pipe also containing a gaseous fluid leading from said chamber into the liquid cooling medium, cooling means in the path of said gaseous fluid in said pipe adapted to function under the influence of the air current when the automotive vehicle is in motion, whereby the effect of temperature variations on the gaseous fluid within said pipe and said chamber is diminished and means indicating the pressure in said chamber.

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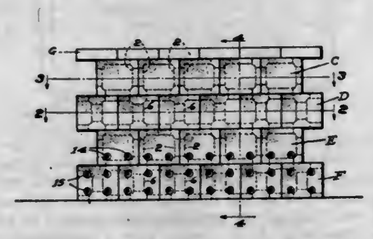
1,696,811. SUCTION CLEANER TOOL. EDWARD A. NISBET, Pittsburgh, Pa., assignor to Invincible Vacuum Cleaner Manufacturing Company, Pittsburgh, Pa., a Corporation of Delaware. Filed June 2, 1927. Serial No. 195,944. 1 Claim. (Cl. 15—158.)



A cleaning head for a suction cleaning apparatus comprising, in combination, a body portion substantially triangular in plan and composed of a relatively flat top wall and a depending peripheral flange, which wall and flange combine to form a triangular receiving socket having substantially three equal sides to receive a triangular shaped brush member, said top wall of said body portion being provided with a centrally arranged opening communicating with an integrally formed connecting conduit adapted to be connected to the suction conduit of a cleaning apparatus, said brush comprising a substantially triangular rigid body portion of said head, a row of bristles secured in and adjacent the outer edge of said body portion of said brush, the portion of said brush body within said bristles extending downwardly a material distance along and terminating short of the lower ends of said bristles and having its central portion cut away so as to form a skirt flange within said row of bristles and a hollow suction dome terminating in a centrally arranged opening communicating with the opening in said top wall of said body portion of said head, and means for removably securing said brush in said body portion of said head.

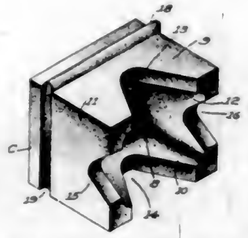
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1,696,812. FURNACE WALL AND BRICK THEREFOR. OSCAR NYGAARD, Saugus, and BENJAMIN H. SNOW, West Medford, Mass., assignors to Bernitz Furnace Appliance Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 3, 1926. Serial No. 85,682. 15 Claims. (Cl. 110—75.)



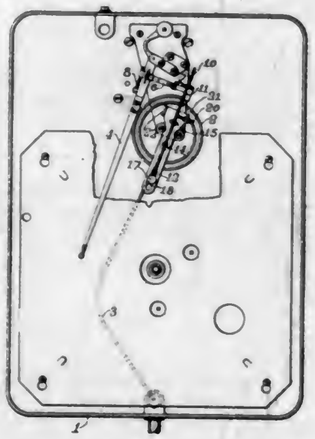
1. A furnace wall structure comprising superposed courses of bricks, composed entirely of refractory materials, the bricks in one course breaking joints with those in the next course, said bricks having upright rearwardly projecting portions with the projecting portions of the bricks in one course superposed on the projections of the bricks in the next lower course, said wall having vertical air passages across adjacent courses, formed by said portions, to permit a vertical flow of air past the rear faces of the bricks.

1,696,813. BRICK FOR FURNACE-WALL CONSTRUCTION. OSCAR NYGAARD, Saugus, Mass., assignor to Bernitz Furnace Appliance Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1926. Serial No. 85,683. 6 Claims. (Cl. 110—75.)



1. A brick for furnace wall construction having a relatively large chamber extending into it from the rear side thereof leaving a relatively thin wall at the front of the brick, said brick being made of non-metallic refractory material, flanges projecting rearwardly from said wall at opposite edges thereof and forming opposite walls of said chamber, said flanges having notches therein provided passages therethrough leading from the chamber to the opposite sides of the brick, and a hole extending through said wall from said chamber to the front face of the brick.

1,696,814. PRESSURE GAUGE. DURWOOD D. ROSENBURGH, Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a Corporation of New York. Filed Dec. 15, 1926. Serial No. 155,095. 7 Claims. (Cl. 73—109.)

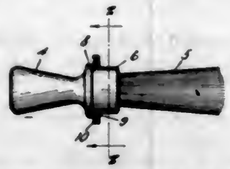


1. In apparatus of the character described, the combination with a pressure-responsive system including a pressure-responsive element, an arm and means for translating movement of the pressure-responsive element, of a spring wire, means for adjusting the position of the wire in the direction of its length and a projection on the pressure-responsive system, the wire being disposed on one side of the projection in the path of motion thereof to be flexed thereby.

1,696,815. PROCESS OF LEATHER FINISHING. ABRAM SMALL, Danvers, Mass. Filed Nov. 30, 1926. Serial No. 151,828. 2 Claims. (Cl. 91—70.)

1. The method of finishing leather, consisting in applying thereon a coating composition having latex as an ingredient to lay the nap, allowing the leather to dry, applying thereto said coating composition without latex as an ingredient, allowing the same to dry, dusting with finely comminuted matter, and finally placing the leather under high pressure between hot plates at a relatively high temperature.

1,696,816. BRUSH ATTACHMENT. SIGURD A. STEINARSON, Bucksport, Me. Filed Nov. 26, 1927. Serial No. 235,938. 1 Claim. (Cl. 15—248.)



A shaving brush having mounted on its handle near the bristles socket an elastic band attached to an annular ring of sponge.

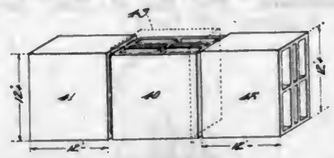
1,696,817. GOLF ACCESSORY. HENRY W. ST. JOHN, Brightwaters, N. Y. Filed Sept. 7, 1928. Serial No. 304,425. 3 Claims. (Cl. 273—66.)



1. In a golf accessory, a suitable rod, and a ball entrapping device embodying two cage sections of a size to collectively embrace and house a ball in a position wherein the ball is wholly within the confines of said sections collectively with the contiguous edges of the sections in substantially abutting relation, resilient shanks formed on the respective sections to mount the sections on the rod and to normally impel said sections into such edge abutting relation, and toggle mechanism connected across the interior of said sections so that when the toggle is extended the sections will be forced apart to permit entry of the ball between them, said toggle being positioned for engagement with the ball as it enters between the sections whereby impact of the ball with the toggle will cause the toggle to be flexed to release the sections and permit them to spring together under the impulse of their resilient shanks.

1,696,818. BUILDING BLOCK AND WALL. HARRY L. STRAND, Boston, Mass., assignor of one-half to Leo F. Emerson, Brookline, Mass. Filed July 15, 1925. Serial No. 43,839. 5 Claims. (Cl. 72—41.)

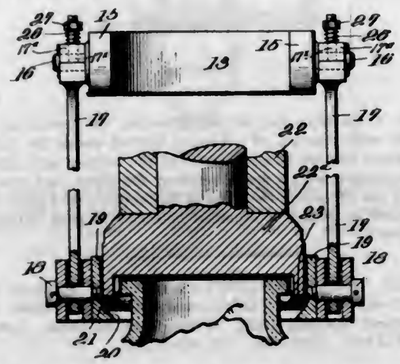
2. A tile building block adapted for use in a wall as a backing for a pre-determined number of superimposed bonded face courses of brick and formed with an approximately square wall of required dimensions to conform to said face courses, said block being pre-formed with one edge of the square wall a predetermined amount shorter than the other edge at right angles thereto to provide, when either light burned or hard burned, one of said edges with substantially no greater height than the



said required square dimensions when the block, if turned at right angles, projects a substantial distance above the top of the face courses.

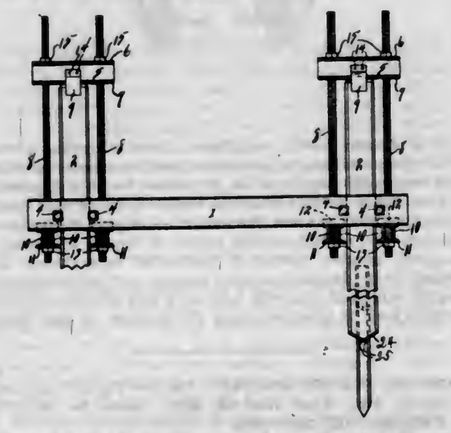


1,696,819. CAPPING MACHINE. TOM SUTCLIFFE, London, England. Filed Apr. 6, 1926, Serial No. 100,098, and in Great Britain July 10, 1925. 6 Claims. (Cl. 226—83.)



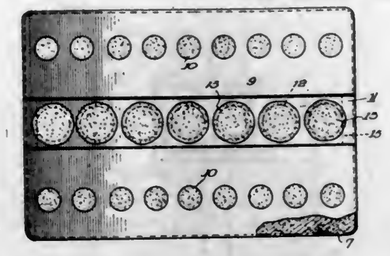
3. A machine for capping bottles or jars comprising in combination a fixed head adapted to receive a loosely capped jar or bottle, a spiral wire annulus mounted in said head and adapted to surround the cap, and means to rotate said annulus about its peripheral axis, so that the inner portions of the coils move axially away from the head and to simultaneously radially contract said annulus.

1,696,820. PROGRESSIVE PILE-DRIVER SUPPORT. JOHN B. TEMPLETON, Dallas, Tex. Filed Jan. 19, 1926. Serial No. 82,384. 8 Claims. (Cl. 61—74.)



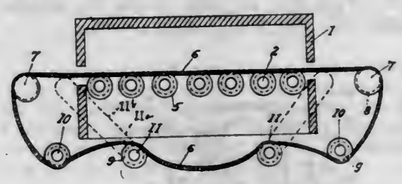
1. A pile driver support comprising a plurality of members, each member having a pair of beams disposed on opposite sides of the piles, and means for suspending said beams from the tops of the piles, including adjusting devices for engaging each pile for holding said beams at different points of vertical adjustment.

1,696,821. FRICTION BRAKE. JAMES S. THOMPSON, New York, N. Y., assignor to American Brake Materials Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1926. Serial No. 137,425. 7 Claims. (Cl. 188—258.)



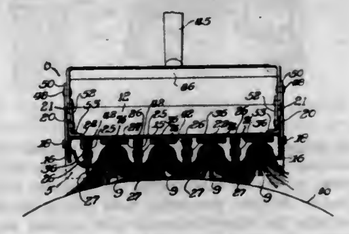
5. A friction brake shoe comprising a composition body and a metal back thereon, said back having a depression therein and said depressed part being provided with perforations, parts of the body extending through said perforations and forming buttons within the depression to anchor the body to the back.

1,696,822. CONTINUOUS FURNACE. JOHN B. TYTUS, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a Corporation of Ohio. Filed May 12, 1925. Serial No. 29,828. 3 Claims. (Cl. 214—18.)



1. In combination, a furnace, a series of relatively smooth rotatable bodies in the furnace, chains arranged over said bodies, said chains being endless and supported in a condition of balance as to their return portions, and means for driving at least one of the rotatable bodies.

1,696,823. HAIR WAVER. ARTHUR E. WALSH, Chicago, Ill. Filed May 10, 1924. Serial No. 712,193. 16 Claims. (Cl. 132—32.)



1. In a device of the class described, the combination of a plurality of spaced blades adapted to lie edgewise to

a person's head with the spaces between the blades opening toward the head and a waving member cooperable with the opposite edges of said blades for waving the strands of hair thereover, said blades being of sufficient width to cooperate with the waving member at one edge and to extend at their opposite edges from the waving member for presentation to the head and spacing the waving member therefrom.

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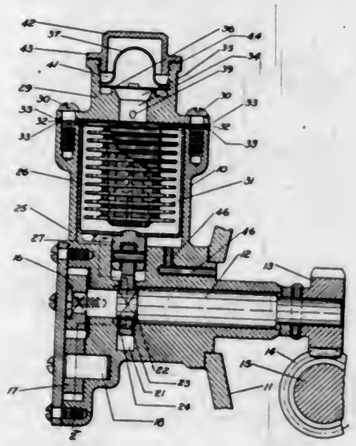
1,696,824. PRICE MARKER. FREDERICK W. WANNER, St. Louis, Mo. Filed Oct. 13, 1927. Serial No. 225,936. 3 Claims. (Cl. 40—11.)



1. A marker comprising a plate having card-holding means at three edges but free of such means at its fourth edge, a card inserted into said card holding means from said fourth edge of said plate, and an attaching device having a spring clip jointly receiving said fourth edge of said plate and the adjacent portion of said card, whereby to not only mount plate and card upon produce or the like on sale, but to removably hold the card engaged with said card-holding means.

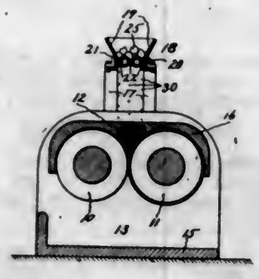
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1,696,825. FUEL PUMP. JOHN WILLIAM WHITE, Buffalo, N. Y. Filed Feb. 19, 1924. Serial No. 693,929. 6 Claims. (Cl. 103—44.)



1. A fuel pump comprising a casing, a bellows therein open at one end, which end is rigidly secured to said casing, a cup-like piston in said casing surrounding said bellows and out of contact therewith, said piston containing fluid which fills the space between said bellows and the walls of said piston, and means for reciprocating said piston and thereby through said fluid controlling the expansion and contraction of said bellows.

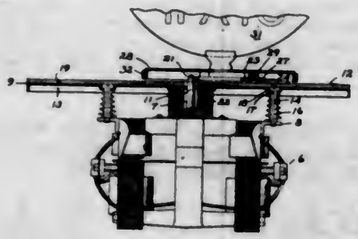
1,696,826. DEVICE FOR MELTING PARAFFIN. ELMER S. WHITTIER, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed May 10, 1926. Serial No. 108,038. 2 Claims. (Cl. 18—2.)



1. In a machine for mixing plastics, the combination with the rolls thereof, of a hopper located above the rolls, steam pipes located at the bottom of the hopper, said pipes being arranged with a space between the pipes, and spaces between the pipes and the sides of the hopper, said pipes being spaced to permit a liquefied material to pass through said spaces.

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1,696,827. ANIMATED-DISPLAY DEVICE. MULFORD M. WILLIAMS, Oakland, Calif., assignor to Alexander N. Prentice, Oakland, Calif. Filed Sept. 9, 1926. Serial No. 134,377. 6 Claims. (Cl. 40—139.)



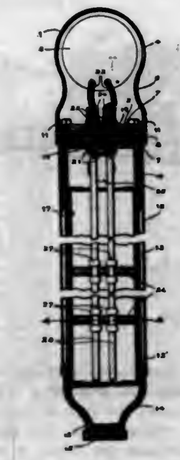
1. A display device comprising a motor having a vertically disposed magnetized motor shaft, a member entirely and resiliently supported on the motor frame and providing an upper surface disposed transversely of said shaft and perforated to allow the extension of said shaft therethrough, and an independent article of display providing a magnetic member having a continuous edge thereof arranged to be disposed on said surface and to frictionally engage said shaft whereby motion of said article over said surface may be produced upon the rotation of said shaft.

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1,696,828. WATER HEATER. VERNON PRICE-WILLIAMS, Miami, Fla. Filed June 10, 1926. Serial No. 114,977. 3 Claims. (Cl. 219—39.)

1. A device of the character described comprising a casing, a sleeve head inserted into the upper end thereof and having an annular shoulder formed exteriorly of one end, a depending sleeve threaded into the lower end of the sleeve head, a closure threaded on the lower end of the depending

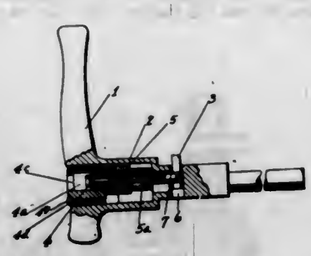




sleeve, said casing terminating at its lower end in an inward flange resting on the upper edge of said closure, and an insulating member overlying the inner surface of the sleeve head, depending sleeve, and closure.

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1,696,829. LOCK. SOLOMON WISE, Cincinnati, Ohio. Filed July 12, 1927. Serial No. 205,186. 8 Claims. (Cl. 70—91.)



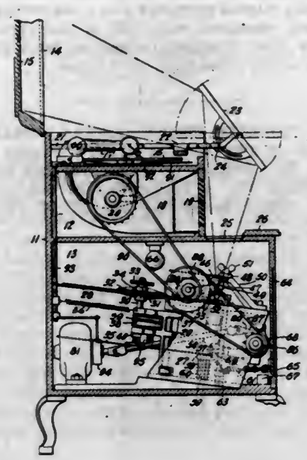
1. In a lock, the combination of two tumbler containers, means on one container for moving the other container with relation to it, tumbler chambers in said containers, a set of concentric tumblers for each chamber one of which sets at least, is spring impelled, whereby when the chambers are in line the tumblers will intermesh and hold them against relative movement, adapted to receive a key for the one container, establishing a line of cleavage between the sets for concentric tumblers and for rotating said container, and means on the other container to operate a bolt.

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1,696,830. LIGHT-SENSITIVE SILVER HALIDE EMULSIONS AND PROCESS OF MAKING THE SAME. PETER WULFF, Starnberg, and BRUNO WENDT, Dessau, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Filed May 16, 1927, Serial No. 191,928, and in Germany May 20, 1926. 9 Claims. (Cl. 95—7.)

1. Process of manufacturing light-sensitive silver halide emulsions characterized by the step of incorporating in the emulsion a compound of the iminazole-series.

1,696,831. COMBINED GRAMOPHONE AND MOTION-PICTURE APPARATUS. WILLIAM H. BAKER, Montreal, Quebec, Canada. Filed Jan. 7, 1921, Serial No. 435,712. Renewed May 22, 1928. 21 Claims. (Cl. 88—18.8.)



1. A motion picture machine for use with films having pictures arranged thereon in a spiral series, comprising a pivoted arm, a spindle revoluble in the arm and adapted to carry a film, a disc carried by the spindle having apertures therein uniformly spaced and arranged in a spiral series, a toothed wheel positioned to engage the apertures of the disc to both rotate the disc and bodily move the same, and means operative upon disengagement of the disc and wheel to rotate the spindle and disc to return the disc to predetermined relation with respect to the wheel.

15. In a motion picture machine including a flexible disc having a spiral series of apertures, a pinion to engage the disc apertures, and means engaging the disc to hold the disc in engagement with the pinion, said means being movable to enable flexion of the disc to disengage the pinion for resetting of the disc and film.

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1,696,832. COMBINED MEASURING AND DRAFTING INSTRUMENT. FERMAN L. BANE, Cincinnati, Ohio. Filed Aug. 8, 1925. Serial No. 49,051. 1 Claim. (Cl. 33—192.)

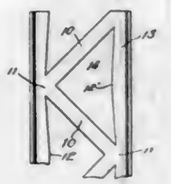


In an instrument of the character described, a lazy tongs construction comprising pairs of cross levers pivotally connected between their ends and centrally of one of the levers of each pair, one end of each lever of a pair being pivotally connected to that of a lever of an adjacent pair, the other end of one of the levers of each pair being pivotally connected to a lever of an adjacent pair at a point between its central pivotal point and its end, the extending portion of said lever being centrally notched and having its side edges converging

and forming with said notch, points on said extending end, upper and lower blocks at each end of said lazy tongs construction having aligned apertures therein, pointed members extending through said apertures, set screws for holding said pointed members in said blocks, other blocks pivotally connected centrally to certain of said levers and in spaced relation to each other, said other blocks having aligned apertures and a rod extending therethrough and connected with one of the lugs by a set screw, lock nuts threadedly connected with the rod on either side of the other lug.

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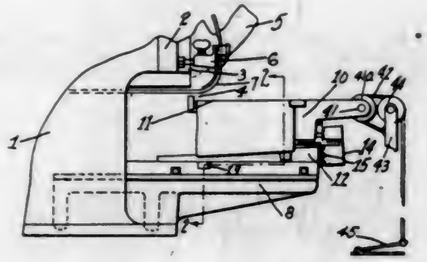
1,696,833. ROLLED TRUSS METAL SHAPE AND METHOD OF PRODUCING SAME. WALTER A. BATES, Chicago, Ill., assignor to Bates Expanded Steel Truss Co., Chicago, Ill., a Corporation of Delaware. Filed Dec. 17, 1921. Serial No. 523,116. 7 Claims. (Cl. 80—66.)



7. The method of making a truss metal shape which consists in slitting a blank transversely and alternately from the marginal portions of the blank, and also slitting the blank angularly and alternately at opposite ends of the transverse slits, and then rolling the blank to elongate the marginal portions and thereby cause a separation and an elongation of the slitted portions intermediate of the marginal portions to form openings in the finished blank.

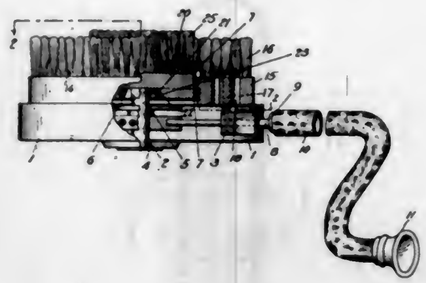
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1,696,834. BED FOR SHOE-ORNAMENTING MACHINERY. BISMARCK B. BRODFUEHRER, BENJAMIN W. FREEMAN, and CHARLES A. JESTER, Cincinnati, Ohio, assignors, by mesne assignments, to said Benjamin W. Freeman. Filed Jan. 13, 1926. Serial No. 80,903. 9 Claims. (Cl. 164—93.)



2. For use in a shoe ornamenting machine having a frame provided with guiding means, mechanism comprising a die supporting unit provided with means for cooperating with said guiding means in controlling the movement of said unit relative to said machine, said unit composed of upper and lower members and having self contained means for varying the elevation of portions of said unit, and means on said upper unit for cooperating with a fixed portion of said frame for preventing movement of said upper unit excepting in the direction of its elevational movement.

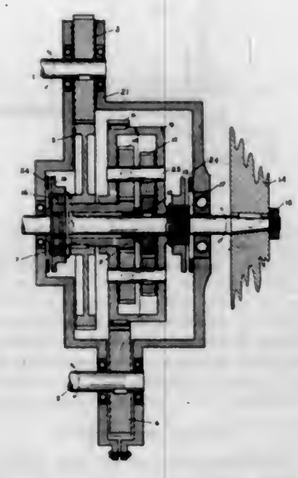
1,696,835. ROTARY HYDRAULIC BATH BRUSH. WALTER E. BURNETT, Los Angeles, Calif. Filed Mar. 5, 1927. Serial No. 173,003. 3 Claims. (Cl. 15—29.)



3. A rotary brush comprising a closed casing, a shaft journaled in the casing and projecting through the wall of the casing which forms the face of the casing, a rotor on the shaft in the casing, means for discharging fluid into the casing for turning the rotor, a rotary brushing element mounted on the projecting end of the shaft, and a stationary brushing element comprising a plurality of brushing means projecting from the face wall of the casing around the space occupied by the rotary brushing element, the said face wall of the casing having apertures opening therethrough between adjacent brushing means of the stationary brushing element.

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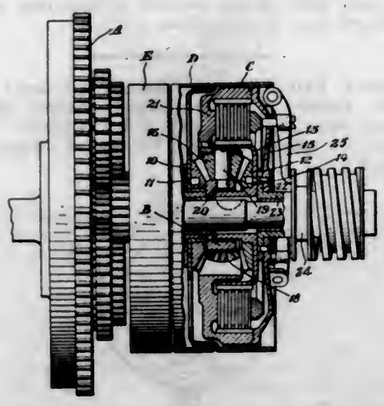
1,696,836. POWER TRANSMISSION. LEE R. BUSHYAGER, Hasbrouck Heights, N. J. Filed Nov. 14, 1927. Serial No. 233,124. 2 Claims. (Cl. 74—34.)



1. In combination with a driven shaft, two prime movers provided each with a power shaft, a collar threaded upon a member rotating in unison with each power shaft and movable by virtue of such threaded connection to and from an oppositely set, fixed abutment, and gearing connecting the two power shafts with the driven shaft.



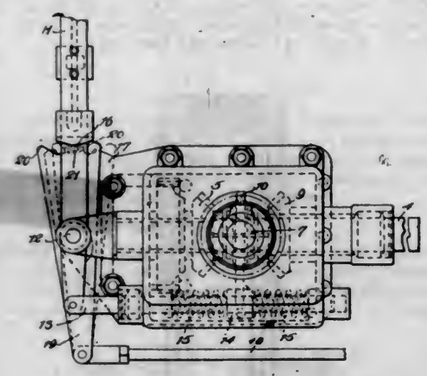
1,696,837. INTERMEDIATE GEAR FOR AUTOMOBILES. NELS CHRISTIANSEN and ERNEST A. ILLERBURN, Gull Lake, Saskatchewan, Canada. Filed May 23, 1927, Serial No. 193,625, and in Canada May 12, 1927. 1 Claim. (Cl. 74—34.)



An intermediate speed gear mechanism for planetary transmissions, comprising in combination a drive shaft, a sleeve, a brake drum, a gear for the brake drum, a clutch drum and a gear for the clutch drum, a driving plate secured to the sleeve, a series of pinions mounted intermediate of the aforementioned gears and meshing therewith.

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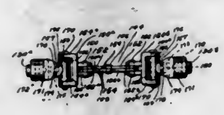
1,696,838. CLUTCH CONTROL FOR TRANSMISSION MECHANISM. RALPH F. CRAWFORD, Salina, Kans. Filed Aug. 3, 1926. Serial No. 126,852. 3 Claims. (Cl. 192—138.)



1. In an automatic clutch control for power transmission mechanism, driving means, driven means, a clutch connection between said driving means and said driven means including a clutch control lever manually operable from neutral to clutch position and having a spring pressed pawl and a segment rack engaged thereby to hold the adjustment, and means operable by said driven means to automatically return the clutch control lever from clutch position to neutral position upon a predetermined movement of said driven means including a reciprocatory cam device for raising said pawl from engagement with the teeth of said rack and a spring tensioned in the movement of said clutch control lever from neutral to clutch position.



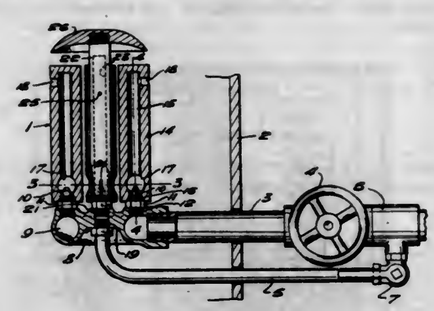
1,696,839. CONTROLLING MECHANISM FOR WHEEL BRAKES. JOHN B. DES ROSIERS, Providence, R. I. Filed June 24, 1925, Serial No. 39,296. Renewed Apr. 20, 1928. 42 Claims. (Cl. 188—194.)



3. In a road vehicle, the combination of a stationary axle, a wheel mounted on each end of said axle so as to rotate freely around a horizontal axis and to swivel around a substantially vertical axis, a braking mechanism attached to each wheel, rotatable means freely expansible and freely flexible in all directions for actuating said braking mechanisms mounted on said vehicle, said rotatable means comprising rod sections and connecting means therefor comprising two sets of toggle joints each having one end thereof pivotally joined to adjacent ends of said rod sections in one plane and having the opposite ends thereof pivotally joined together in the same plane, said joints being also pivotable in a plane at right angles to said rod sections, and means operable from the driver's seat to rotate said means to actuate said breaking mechanisms.

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1,696,840. GAS BURNER. HARRY E. DICKINSON, Houston, Tex. Filed Aug. 2, 1926. Serial No. 126,533. 3 Claims. (Cl. 158—104.)



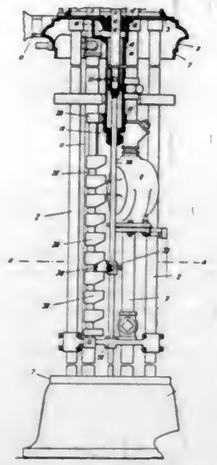
1. A gas burner comprising an annular gas manifold having a plurality of gas jets upstanding therefrom, a group of tubes one to each gas jet mounted upon the manifold and extending upwardly therefrom, a pilot light burner mounted concentrically of and on the manifold within said group of burners and projecting upwardly and terminating above the latter, and a canopy mounted on the upper end of the pilot light burner and extending above and over said group of burners.

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1,696,841. LIQUID MEASURING AND DISPENSING APPARATUS. RUSSELL L. EDISON, Grand Rapids, Mich., assignor, by direct and mesne assignments, to Fleckenstein Pump Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Feb. 12, 1925. Serial No. 8,729. 2 Claims. (Cl. 221—100.)

1. In liquid measuring and dispensing apparatus, the combination with a container, a tube movably mounted therein for controlling the discharge of measured quantities of liquid from the container, a handle connected with and adapted to be shifted for moving the tube, a lug ex-

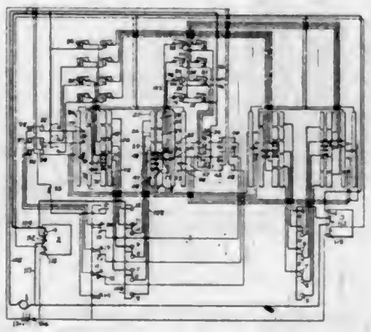
tending from the handle and having one flat face and one inclined or cam face, and a series of fixed, spaced lugs adapted to receive the first-mentioned lug therebetween,



the second-mentioned lugs having one inclined face and one flat face adapted to respectively receive contact of the inclined and flat faces of the handle-carried lug.

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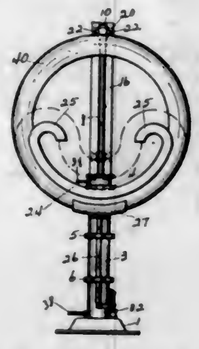
1,696,842. SIGNALING SYSTEM FOR ELEVATORS. ROBERT H. GAYLORD, Los Angeles, Calif. Filed Aug. 22, 1923. Serial No. 658,736. 14 Claims. (Cl. 177—336.)



3. An elevator signal system for a plurality of cars, comprising landing signals corresponding to the respective cars; a car operated switch corresponding to each car and having contacts corresponding to the respective landing signals and means operated in correspondence with the movement of the car to control circuit connection at such contacts; signal operating circuits including a source of current and the respective landing signals and also including the corresponding contacts of the car operated switches; control circuits including a source of current and circuit closers at the respective landings and also including electromagnetic means; circuit closers included in the respective signal operating circuits and operated by the respective electromagnetic means aforesaid to close the respective signal circuits; each signal operating circuit also including an electromagnet of sufficient resistance to prevent operation of the signal, and also including a switch controlled by said electromagnet and connections including said switch and a part of said electromagnet and adapted to short circuit said part of the electromagnet to reduce the resistance of the circuit upon operation of the electromagnet, so as to cause increased current to flow in the corresponding signal circuit, and an interlocking member adapted to cooperate with the said electromagnetically operated switches for each floor and direction of travel of the car, to prevent operation of any of said switches while any other of said switches for that floor and direction of travel is in operation.

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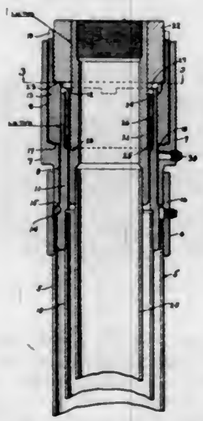
1,696,843. BAG INSERTER. RAYMOND HANSEN, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Sept. 29, 1924. Serial No. 740,523. 6 Claims. (Cl. 18—2.)



1. A device of the character described comprising means to engage not more than half of the inner periphery of a bag and means to fold the unengaged portion of the bag inwardly toward the engaged portion.

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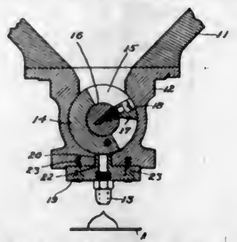
1,696,844. CASING HEAD FOR OIL WELLS. HUGH SCOTT HAYNES and WILLIAM L. ALEXANDER, Tampico, Mexico, assignors of one-third to George E. Paddleford, Tampico, Tamaulipas, Mexico. Filed Nov. 11, 1925. Serial No. 68,415. 3 Claims. (Cl. 285—22.)



1. A casing head construction comprising a body member provided with an interior annular seat, adapted to be detachably secured to the upper end of a well casing, a locking ring disposed within said head and engaging said annular seat, and a casing head bushing for connecting a string of casing detachably secured to said locking ring, said bushing provided with an annular seat adapted to engage the casing head to form a gas tight joint therebetween.



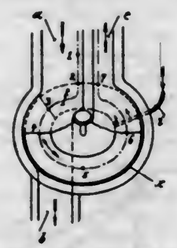
1,696,845. DEPOSITOR. ROBERT S. HISLOP, Racine, Wis., assignor to Racine Confectioners Machinery Company, Racine, Wis., a Corporation of Wisconsin. Filed Apr. 3, 1925. Serial No. 20,523. 3 Claims. (Cl. 107—28.)



3. In a depositor for plastic material having a reservoir for the material, valve mechanism comprising a valve casing communicating with said reservoir, a removable measuring valve in said casing having a plurality of recesses therein to receive measured quantities of the material, said casing having a single discharge opening communicating with all of said recesses, and a plate removably secured to said casing, said plate having a portion closing the discharge opening in said casing and itself provided with a plurality of discharge openings corresponding in number, arrangement, and capacity to the recesses in said valve.

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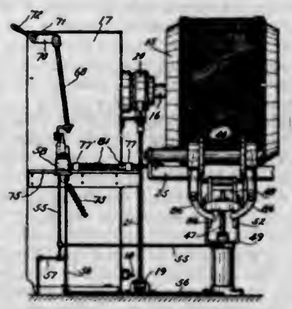
1,696,846. SEWAGE TREATMENT WITH THE AID OF A SCREEN ACTING LIKE A FILTER. KARL IMHOFF, Essen, Germany. Filed June 18, 1927, Serial No. 199,782, and in Germany July 31, 1926. 3 Claims. (Cl. 210—2.)



1. In sewage treatment, the process of exposing a screen to the sewage, and preventing passage of sewage therethrough till a filter of sludge forms thereon, then causing the passage of sewage therethrough to take place, and finally removing the sludge from the screen.

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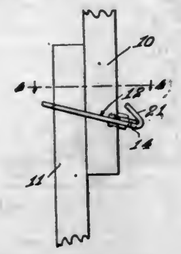
1,696,847. STITCHING DEVICE. WILLIAM F. IRROANG, Chicopee, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,754. 3 Claims. (Cl. 154—10.)



1. In combination with a revolving tire building drum, a pair of freely rotatable stitching rollers, means for pressing the rollers against the drum, means for causing the rotation of the rollers due to their contact with the drum to move the rollers apart, and mechanism automatically operated upon the separation of the rollers to a predetermined degree to remove them from contact with the drum.

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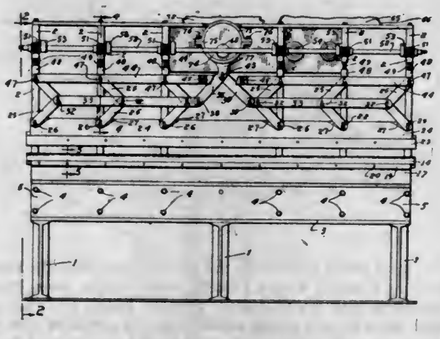
1,696,848. SHORE CLAMP. JACOB KAUTZ, Chicago, Ill. Filed Oct. 18, 1926. Serial No. 142,426. 1 Claim. (Cl. 304—40.)



A shore clamp including a clamping element having one edge portion provided with teeth and oppositely disposed outwardly extending portions at the ends of said element terminating in downwardly protruding portions, and a cooperating clamping element formed substantially U-shaped and having an edge portion provided with teeth and having portions providing a pivot for the first mentioned clamping element, said downwardly protruding portions on said first mentioned clamping element engaging said second mentioned clamping element adjacent said pivot to limit transverse movement of said first mentioned element, said outwardly extending portions being adapted to be disposed on opposite sides of said cooperating clamping element, and a locking member pivotally mounted on one leg of said U-shaped member and having a bifurcated portion adapted to be disposed to lock said clamping elements in clamping position.

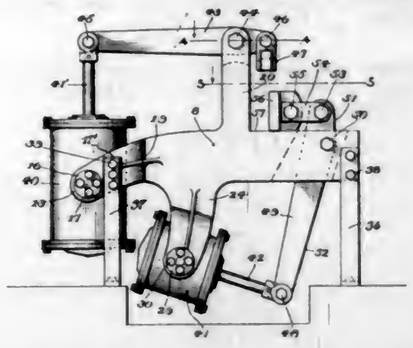
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1,696,849. BENDING MACHINE. THOMAS J. KELLEHER, Chicago, Ill. Filed June 29, 1927. Serial No. 202,343. 8 Claims. (Cl. 153—21.)



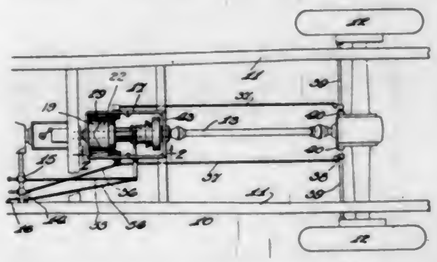
6. In a bending machine, a plurality of vertical metal plates secured in parallel planes, portions of the sides of said plates removed to obtain a plurality of horizontal supports and a like number of over-hanging portions of said plates above said tables, in combination with a bar adapted to form the base of a die, a die on said base, an additional bar, an additional die on said additional bar arranged to co-act with said first named die, controlled means to move said additional bar, said means to move comprising a plurality of series of toggle joints positioned below said over-hanging portions of said vertical plates, and means to actuate said toggle joints.

1,696,850. BANDING MACHINE. JOHN W. KILLINGSWORTH, Atlanta, Ga. Filed Mar. 21, 1927. Serial No. 177,178. 4 Claims. (Cl. 78—24.)



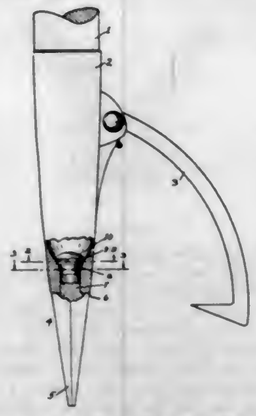
1. A machine for securing a band in position to bind the leaves of a spring together comprising a suspension structure for supporting the band in position to be acted upon, an upper lever disposed longitudinally with respect to and eccentrically pivoted to said structure above the point of supporting the band, a lower lever disposed at an upstanding position with respect to and eccentrically pivoted to said structure and further arranged forwardly of the upper lever, a combined holding and presser element pivotally carried by the forward end of the upper lever, an upsetting element pivotally carried by the upper end of the lower lever and sliding on said structure, and means supported from said structure and connected to the rear end of the upper lever and lower end of the lower lever for actuating said levers to shift said elements simultaneously at right angles to each other to secure the band to the spring.

1,696,851. POWER-OPERATED BRAKE. LOUIS KRUPP, New York, N. Y. Filed Nov. 2, 1927. Serial No. 230,627. 7 Claims. (Cl. 188—140.)



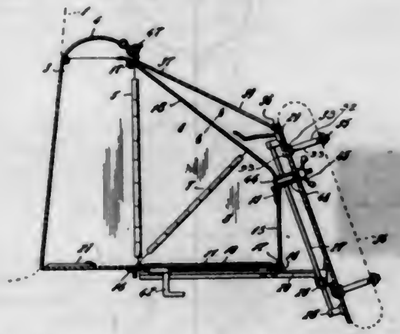
1. In a brake apparatus, the combination with the power shaft of a motor driven vehicle, brake drums, brake bands encircling said brake drums, a brake pedal, a clutch element fixed to said power shaft, a fixedly mounted cam element, a second cam element slidably mounted on said power shaft and normally engaging said first cam element, a second clutch element fixed to said second cam element and slidable longitudinally thereon, actuating means between said brake pedal and said second clutch element whereby depression of said brake pedal will cause said second clutch element to slide into coacting engagement with said first clutch element for transmitting rotary power to said second cam element for forcing the same longitudinally of said power shaft, and mechanism operable by the sliding movement of said second cam element for contracting said brake bands about said brake drums.

1,696,852. PEAVEY. WILLIAM LATTA, Evart, Mich., assignor to American Logging Tool Co., a Corporation of Michigan. Filed Apr. 27, 1923. Serial No. 635,031. 1 Claim. (Cl. 306—29.)



Means for securing a pike in the end of a peavey socket having a reduced end portion comprising a cylindrical shank on the pike, the terminal part of the reduced end portion of the socket formed with an axial cylindrical bore permitting insertion of and providing a bearing for said shank, an intermediate part of said end portion formed with a tapered bore to provide an anchorage for said shank against endwise movement, the upper part of said end portion formed with an internal rectangular socket to provide an anchorage for said shank against turning, the end of said shank upset to fill said tapered part and said rectangular socket respectively.

1,696,853. FOLDING TRUNK. OTTO R. LUDWIG, Garvin, Minn. Filed Mar. 25, 1927. Serial No. 178,360. 3 Claims. (Cl. 224—29.)



1. In a device for the purpose set forth, a box-like member having an open front and an open top and also having an opening at the bottom thereof, a cover plate for the last mentioned opening, a hinged cover for the top, side members hinged to the outer edges of the sides of the box, each of said sides comprising two members having angle confronting edges which are hingedly connected at said sides susceptible to inward swinging, a plate hingedly secured to the outer lower edge of the box and sides, a comparatively short lip carrying plate hingedly secured to the outer edge of the last mentioned plate, a flanged combined cover and partition plate hingedly secured to the top of the box, and swingable over the sides and engageable with the lip of the last mentioned plate when so swung and likewise swingable between the sides and means for locking the combined cover and partition plate to the lip of the last mentioned plate for closing the box-like member when the sides thereof are extended.

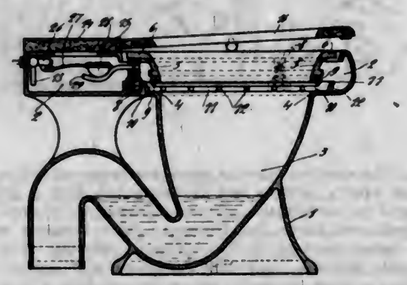


1,696,854. CORN VENTILATING AND DRYING DEVICE. OTTO R. LUDWIG, Garvin, Minn. Filed Oct. 29, 1927. Serial No. 229,713. 1 Claim. (Cl. 98—55.)



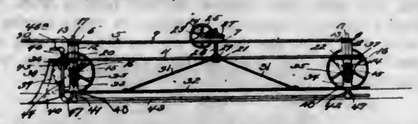
A ventilator for grain storage houses, comprising a plurality of pipe members which are gradually widened from one to their other ends and the reduced end of each of the pipe members designed to be received in the widened end of the adjacent pipe members, one of said pipe members having outstanding ears thereon for the reception of elements for securing this member to the top of the house, oppositely arranged flexible elements connected to the widened ends of the pipe members, and a rod on the outer edge of the lower pipe member to which the lower flexible elements are secured, all of said flexible elements being of the same length, whereby when extended the said elements will sustain the reduced ends of the pipes in the widened ends of the adjacent pipes, a sheave wheel fixedly supported on the top of the building, a cable trained therethrough and having one end surrounding and fixed to the rod and a counterbalancing weight on the second end of the cable whereby a pull on the cable will telescope the pipe members.

1,696,855. WATER-CLOSET. ELOF KARL HJALMAR LUNDBERG, Saltsjobaden, Sweden, assignor to Sesam Aktiebolag, Stockholm, Sweden, a Company of Sweden. Filed Nov. 12, 1925, Serial No. 68,668, and in Sweden Nov. 26, 1924. 1 Claim. (Cl. 4—13.)



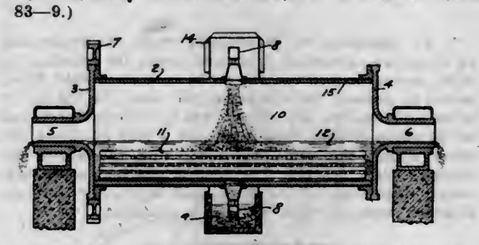
A water closet including an outlet pipe enlarged to provide a collecting funnel, a flushing cistern disposed at the top of the funnel and communicating therewith, said cistern including a movable inner wall, valve controlled means for supplying water to the cistern, said movable wall being adapted when leveled to permit the discharge of water from the cistern into the funnel, and an upstanding wall in the cistern surrounding the movable wall adapted to restrain a part of the water in the cistern, said upstanding wall having perforations therein to permit of the relatively slow discharge of the remainder of the water in the cistern into the funnel.

1,696,856. WEED EXTERMINATOR. MARTIN F. MORAN, Nekoma, Kans. Filed Dec. 4, 1926. Serial No. 152,633. 3 Claims. (Cl. 97—1.)



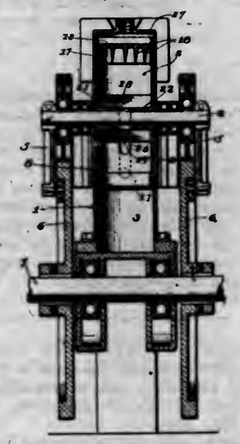
1. In a weed exterminator, the combination of a frame mounted on wheeled axles, a second frame adjustably mounted in relation to the first frame so as to move vertically, furrow-forming devices at the forward extremity of the adjustable frame, steam supply means having distributing members movable longitudinally along the furrows in rear of the furrow-forming devices, and a horizontal metal plate carried by said second frame and movable on the ground surface over the furrows and covering the steam distributing members, and operating to confine the steam in the furrows and to the roots of the weeds.

1,696,857. COMMINUTOR. RAY C. NEWHOUSE, Chicago, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 24, 1926. Serial No. 104,298. 6 Claims. (Cl. 83—9.)



1. In combination, a rotary drum forming a granulating chamber the inner wall of which has straight line generatrices throughout its length, means for feeding material into a medial portion of said chamber through the periphery of said drum, means for discharging material from the opposite ends of said chamber, and a plurality of freely tumbling granulating rods extending substantially throughout the length of said drum.

1,696,858. AIR-COOLED PISTON CONSTRUCTION. HARRY A. PALMER, Dorchester, Mass., assignor to Palmer Inventions, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 11, 1927. Serial No. 182,803. 4 Claims. (Cl. 123—171.)

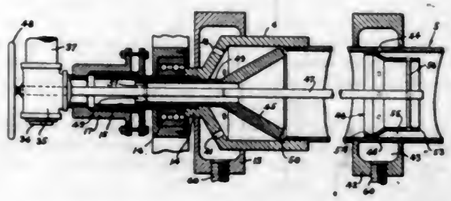


1. A piston for internal combustion motors comprising a hollow body portion closed at its outer and at its inner

end and providing a cooling air receiving chamber, said body formed intermediate its ends with a pair of diametrically opposed slots forming intake and exhaust for the cooling air, said body portion further formed with diametrically opposed openings arranged at right angles to the slots, and wrist pin bearing sleeves integral with and arranged within said body portion and registering with said openings.

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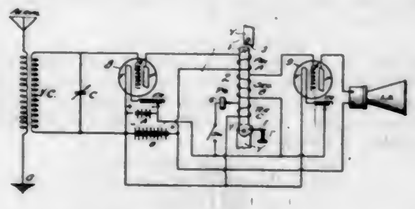
1,696,859. APPARATUS FOR DEHYDRATING CRUDE OILS. WILLIAM LEE PALMER, Long Beach, Calif., assignor of one-half to Regan Forge & Engineering Company, San Pedro, Calif., a Corporation of California. Filed Jan. 31, 1925. Serial No. 6,021. 6 Claims. (Cl. 233—11.)



1. An apparatus for dehydrating crude oils comprising an elongated cylindrical drum and means for rotating the same, means to feed the oils to be treated to said drum, means to preheat the oils before the same are fed to the drum, said drum having water discharge outlets therein and an oil outlet leading therefrom, and a pair of valves disposed within the drum for controlling the water discharge outlets, whereby the treated oils and water separated therefrom will be discharged separately and continuously from the drum during its operation.

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1,696,860. RADIOTRANSFORMER. FRANK D. PEARNE, Chicago, Ill.; Martha K. Pearne executrix of said Frank D. Pearne, deceased. Filed Mar. 16, 1925. Serial No. 15,965. 4 Claims. (Cl. 179—171.)

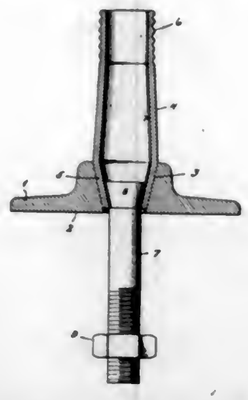


1. A sound amplifying transformer comprising a magnet having windings thereon adapted and arranged to provide a pair of mutually inductive electrical circuits, said magnet including a pair of relatively movable core parts and included in the magnetic circuit and arranged to provide by their relative movement a variable air gap, and means acting against the magnetic pull which tends to minimize the air gap and mechanically urging said parts to augment said air gap, said core parts being pivotally connected at the core joint separate from said air gap and said resilient means being adjustable.

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1,696,861. INSULATOR-SUPPORTING PIN. BENTLEY A. PLIMPTON, Baltimore, Md., assignor to Locke Insulator Corporation, Baltimore, Md., a Corporation of Maryland. Filed Mar. 21, 1927. Serial No. 176,978. 5 Claims. (Cl. 173—321.)

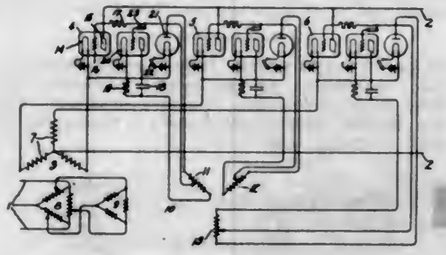
1. An insulator supporting pin of the character described comprising a base, a hollow post extending partly through the base and having a seat therein, and a bolt insertable through the post and cooperating therewith for securing the same with respect to the base, the bolt being



adapted for passage through a cross arm to effect mounting, the base, adjacent portion of the post and bolt having a wedging interrelation.

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1,696,862. ELECTRICAL APPARATUS. DAVID C. PRINCE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 23, 1926. Serial No. 131,016. 7 Claims. (Cl. 175—363.)



1. The combination of a space discharge apparatus provided with a cathode and an anode and with a grid arranged to control the current transmitted between said cathode and anode, low frequency current supply means, an energy storage device connected between said grid cathode through said supply means, and means comprising a space discharge apparatus provided with a control electrode arranged to maintain the stored energy of said device while the potential of said grid is negative.

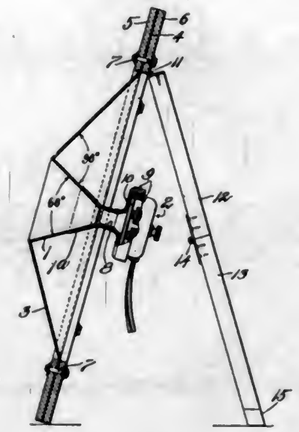
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1,696,863. LOUD SPEAKER. ARTHUR F. RANDALL, Boston, Mass. Filed Sept. 7, 1926. Serial No. 133,953. 4 Claims. (Cl. 179—116.)

1. A sound producing instrument comprising a relatively large hollow conical member of sheet material rigidly connected adjacent its middle with the larger end of a relatively small reversely disposed conical member of sheet



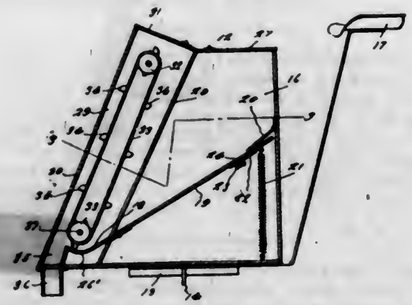
material, and electromagnetic operating means rigidly connected with and wholly supported by said relatively small member, said operating means including a direct act-



ing armature diaphragm closing the smaller end of the relatively small member and an electromagnet rigidly fixed to said relatively small member.

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1,696,864. POTATO-PLANTING ATTACHMENT FOR LISTERS. RICHARD VIRGIL ROBERTSON, Waunets, Nebr. Filed Oct. 17, 1927. Serial No. 226,803. 2 Claims. (Cl. 221—128.)



1. A potato planting attachment for listers, comprising a hopper which is clamped on the lister frame, and which has a false bottom including a fixed section and a hinged section therein, a hinger directing plate over the hinged section of the bottom, a spring normally swinging the hinged section away from the directing plate, a shaft having a lug thereon for contact with the false bottom section when the shaft is turned, the fixed bottom section merging into a rounded trough, an inclined elevator compartment at the forward end of the hopper, an endless chain elevator therein and having its outer lead disposed parallel with and at the same angle as the outer wall of the compartment, said elevator having buckets fixed on the leads thereof, all of which is designed to successively travel through the gutter, a chute in the compartment outward of the gutter, a spout connected with the chute, in combination with means for imparting movement to the elevator and to the shaft.

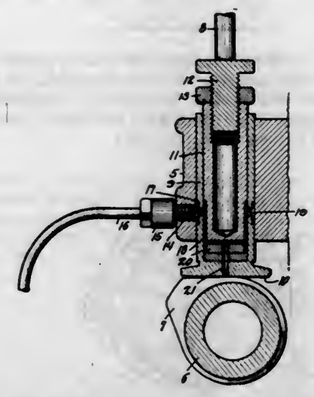
1,696,865. JACK. NEWTON C. SCHELLENGER, Elkhart, Ind., assignor to Chicago Telephone Supply Company, Elkhart, Ind., a Corporation of Delaware. Filed Feb. 21, 1925. Serial No. 10,726. 4 Claims. (Cl. 173—328.)



4. In a jack of the character described, a pair of contact springs insulated from each other and secured at their front and rear ends in fixed relationship with respect to one another, said springs extending longitudinally from the front to the rear of the jack and being bent intermediate of their ends, and a body member having an opening for guiding a plug member to connect with the bent portion of said springs.

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1,696,866. PUSH-ROD OPERATING MECHANISM. WILLIAM A. SEAMAN, Saginaw, Mich. Filed Sept. 23, 1926. Serial No. 137,366. 6 Claims. (Cl. 123—90.)



1. A self-adjusting tappet for push rod operating mechanisms, including a pair of telescopically and slidably associated members, means to supply oil under pressure between said tappet members for providing a liquid cushion therebetween and lengthening the tappet for maintaining constant contact of the tappet with the cam and the push rod, said tappet having a longitudinal opening through the lower end thereof to allow the oil to flow from between the tappet members to a point between the tappet and the cam and to partially relieve the liquid pressure of the cushion during the retreating movement of the cam whereby the tappet is allowed to shorten for permitting complete return movement of the push rod.

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1,696,867. PROCESS OF TREATING LEATHER. MARTIN SEGORIA, Vallejo, Calif. Filed Nov. 30, 1927. Serial No. 236,887. 1 Claim. (Cl. 149—6.)

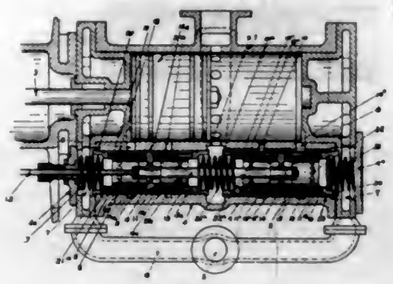
The process of treating leather for rendering the same smooth, durable, and pliable which consists in subjecting the leather to a mixture of twenty five pounds of white pine pitch, two and one-half quarts of linseed oil and six pounds of beeswax.

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1,696,868. VALVE. ALLAN D. SKINNER, Erie, Pa., assignor to Skinner Engine Company, Erie, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1922. Serial No. 602,982. 2 Claims. (Cl. 121—193.)

1. In a fluid actuated engine, the combination of a cylinder having an inlet and exhaust port; a double-ended

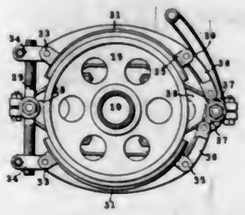
valve acting on said ports, one end controlling the steam port and the other the exhaust port and each comprising a valve member and a seating member, each of said members having a plurality of cylindrical rings telescoping a



plurality of cylindrical rings on the other member, the sliding surfaces of the telescoping rings forming a closure for the valve; and yielding mountings for the seating members.

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1,696,869. RAILWAY BRAKE. WILLIAM JUDSON SMITH, St. Paul, Minn., assignor of one-third to Horace Lowry, Minneapolis, Minn., and one-third to Alphonsus L. Drum, Chicago, Ill. Filed Nov. 29, 1924. Serial No. 752,857. 2 Claims. (Cl. 188—75.)

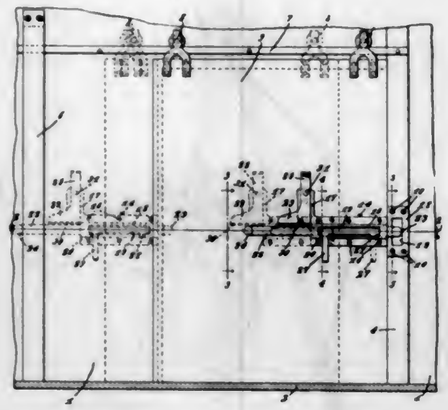


2. In combination, a rotatable axle, a drum secured thereto, a bearing housing for said axle, a pair of brake shoes adjacent said drum, actuating means for moving said shoes into contact with said drum, a fixed plate forming a part of said housing and arranged adjacent said drum, a pair of screw-threaded members secured to said plate, means for adjustably connecting the inner ends of the shoes with said members, means for pivotally mounting the actuating member upon said plate, and arms forming a part of said actuating member and connected with the outer ends of said shoes.

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1,696,870. SLIDING-DOOR LATCH. HENRY J. SPENCER, Waco, Tex. Filed Nov. 8, 1927. Serial No. 231,943. 5 Claims. (Cl. 292—57.)

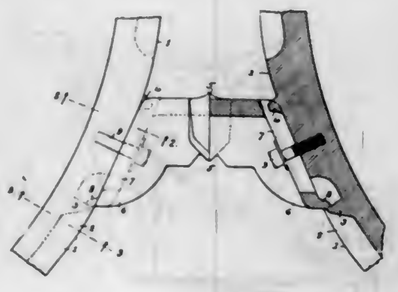
1. A sliding door latch comprising a keeper adapted to be secured to a stationary support, a carrier provided intermediate its ends with lengthwise extending slot, said carrier adapted to be secured to the sliding door, a latching bolt of greater length than and slidably mounted in the carrier, said bolt provided at one end with an angularly disposed nose for engagement in the keeper to arrest sliding movement of the door in one direction and provided at its other end with an angularly disposed protuberance adapted to engage with a stationary support spaced from the support to which the keeper is secured to arrest sliding movement of the door in the other direction, a handle extending through said slot, connected to the bolt and providing means for shifting and turning the



latter, and said carrier provided with spaced means for receiving said handle for latching the bolt in selected shifted position.

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1,696,871. TABLE OR STAND. LEWIS E. WACKERLE, Waukegan, Ill., assignor to Chicago Hardware Foundry Company, North Chicago, Ill., a Corporation of Illinois. Filed May 3, 1927. Serial No. 188,506. 3 Claims. (Cl. 45—48.)

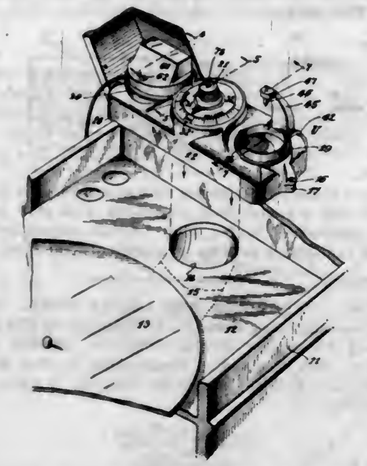


3. In a table or the like, the combination of a plurality of legs, each leg being of a curved form and provided with an upper lug on its rear surface, with a channel in said rear surface and with a cross lug in said channel, said lugs being in separated relation, a central brace member of an open bottom shell form formed with radial wings with each wing formed with a channel or slot in its outer face for engagement with the upper lug of the leg and a bearing lug at its lower end for abutment against the lower lug of the leg and a headed screw bolt arranged intermediate of said lugs and adapted to draw and fixedly hold the parts together.

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1,696,872. SOUND-REPRODUCING APPARATUS. MAXIMILIAN WEIL, New York, N. Y. Filed Oct. 1, 1925. Serial No. 59,783. 23 Claims. (Cl. 179—100.1.)

1. A unit for attachment in lieu of the tone arm base upon the motorboard of a phonograph, said unit comprising a support having an opening in its lower face registering with the amplifier inlet in the motorboard, said support constituting a base for the tone arm mounted thereon and including a passageway therein from the tone arm to



said opening, said support also mounting a telephonic reproducer and having a second passageway therein merging with said first passageway at said outlet aperture.

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1,696,873. MAGNESIUM PRIMARY CELL. ROBERT T. WOOD, Niagara Falls, N. Y., assignor to American Magnesium Corporation, a Corporation of New York. Filed Aug. 5, 1925. Serial No. 48,385. 9 Claims. (Cl. 136—100.)

1. A primary cell comprising an electrode of magnesium and a neutral electrolyte containing a strong soluble oxidizing agent adapted to reduce the rate of corrosion of the magnesium electrode on open circuit.

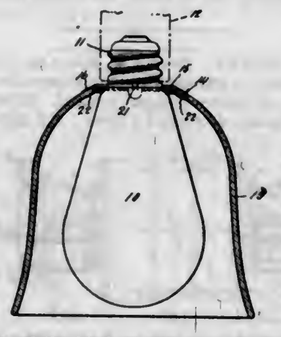
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1,696,874. PROCESS OF MAKING ETHYLENE GLYCOL MONOALKYL ETHERS. CHARLES O. YOUNG, Elmhurst, N. Y., assignor to Carbide & Carbon Chemical Corporation, a Corporation of New York. Filed Feb. 7, 1924. Serial No. 691,283. 1 Claim. (Cl. 260—151.)

Process of making ethylene glycol monoethyl ether, comprising effecting a reaction between ethylene oxid and ethyl alcohol by means of heat and pressure in the presence of a large excess of alcohol.

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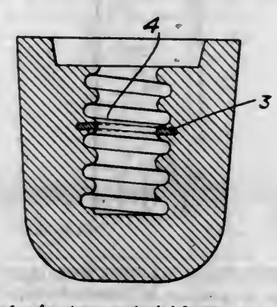
1,696,875. CLINCH COLLAR FOR SHADES. LAURITZ W. ANDERSEN, Waterbury, Conn. Filed Oct. 8, 1926. Serial No. 140,250. 4 Claims. (Cl. 240—142.)



1. A device of the kind described comprising a metallic ring having a flange adapted to engage the exterior of a glass shade, a plurality of bendable tongues adapted to engage the interior of said shade, an intermediate inwardly projecting flange and a fiber ring seated upon the said inwardly projecting flange, the interior diameter of the fiber ring being less than the interior diameter of the inwardly projecting flange.

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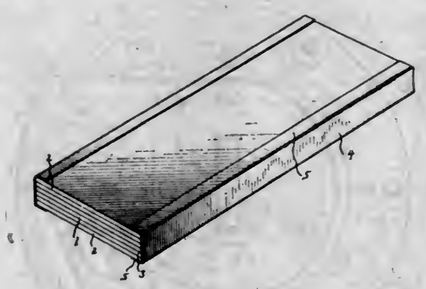
1,696,876. LADLE STOPPER. CHARLES C. BACON, Philadelphia, Pa., assignor to Ross Tacony Crucible Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 31, 1925. Serial No. 47,304. 1 Claim. (Cl. 22—85.)




A stopper of refractory material having a concavity provided with a thread of refractory material and having a plate washer of spiral form embedded in the wall of the cavity and constituting a part of the thread.

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1,696,877. PLASTER-BOARD BUNDLE. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor to The United States Gypsum Co., Chicago, Ill., a Corporation of Illinois. Filed June 27, 1927. Serial No. 201,578. 9 Claims. (Cl. 206—60.)



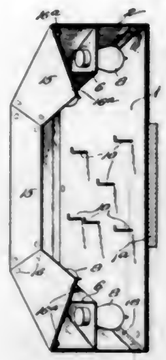
1. A package of flat structural elements of similar size and shape, comprising a plurality of such elements arranged in stacked relation, and means for securing said elements together in such relation, said means comprising thin relatively tough binding strips of thin paper or fibrous material having similar flexibility enclosing certain of the edges of the elements and having intermediate portions unattached thereto and under tension due to the application of substantial compacting force to said elements when the package is being formed, and marginal portions overlapping and adhesively secured to the marginal portions of the outer elements of the package.

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1,696,878. DISPLAY SIGN. ELMER J. BLISS, Boston, Mass., assignor to Regal Shoe Company, Whitman, Mass., a Corporation of Massachusetts. Filed June 5, 1925. Serial No. 35,102. 3 Claims. (Cl. 40—130.)

1. A display sign embracing in its construction a hollow casing comprising a back wall for the display of illuminated letters, peripheral walls projecting forwardly from the back wall, and a peripheral border inwardly pro-

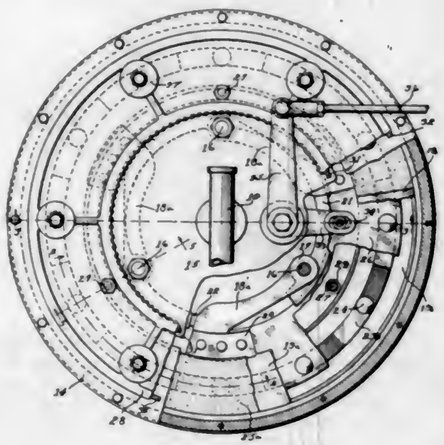
jecting from the front edge portions of the peripheral walls to form an open frame through which the middle portion of the interior is exposed, supporting angle plates connecting the back of the border with the peripheral walls,



said angle plates being provided with lamp sockets for holding lamps in position to illuminate objects displayed on the back wall while concealing the lamps from outside view.

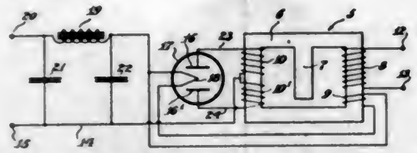
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1,696,879. BRAKE FOR VEHICLES. HAMILTON C. CHASE, Los Angeles, Calif., assignor of one-half to Tobias Weber, Los Angeles, Calif. Filed May 25, 1927. Serial No. 193,988. 9 Claims. (Cl. 188—138.)



1. A brake comprising a rotatable element, confronting friction plates normally spaced from one another and mounted to be moved into frictional engagement, one of said plates being secured to said element so as to be rotated therewith, the other of said plates being stationary, means to urge said plates into frictional engagement including a runway having inclined planes, rolling elements mounted on said runway to travel over said planes, restraining means controlling travel of said rolling elements, operating means for actuating said restraining means so as to cause said rolling elements to travel comprising electromagnetic means for coupling said operating means to the rotatable plate whereby to urge said operating means to travel therewith.

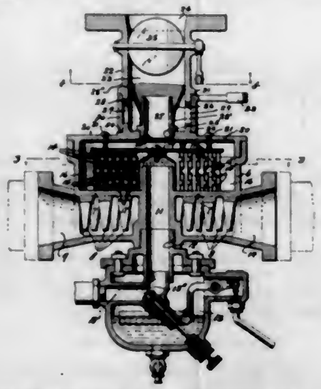
1,696,880. POWER SUPPLY. HAROLD P. DONLE, Meriden, Conn., assignor to Donle Electrical Products Corporation, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 19, 1927. Serial No. 169,564. 4 Claims. (Cl. 175—363.)



2. In a power supply device for vacuum tubes, a rectifier, a filter and a transformer associated with said rectifier, said transformer having high leakage inductance, said leakage inductance serving as a part of said filter.

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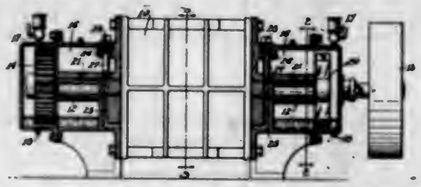
1,696,881. VAPORIZER FOR LIQUID FUEL. EARNEST R. GODWARD, New York, N. Y., assignor to The Eclipse Petrol Economizer System Company, Limited, Christchurch, New Zealand, a Corporation of New Zealand. Filed Apr. 1, 1924. Serial No. 703,380. 1 Claim. (Cl. 261—63.)



The combination with a fuel vaporizer and a secondary mixing chamber, of a fuel vaporizer discharge passage extending axially into said secondary mixing chamber, an automatic air admission valve formed by an inverted conical closed spiral spring fixed at its lower end in concentric relation to said discharge passage with its upper free end movably engaging the wall of said secondary mixing chamber whereby its convolutions may open under externally applied air pressure, the walls of said secondary mixing chamber having air admission ports below said spiral spring valve, and a manually rotatable valve sleeve having ports registerable with said air admission ports to admit atmospheric air to the exterior side of said spiral spring valve.

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1,696,882. BLOWER. ERNEST C. HASSLER, Connersville, Ind., assignor to The Connersville Blower Co., Connersville, Ind., a Corporation of Indiana. Filed Dec. 16, 1925. Serial No. 75,698. 2 Claims. (Cl. 230—205.)

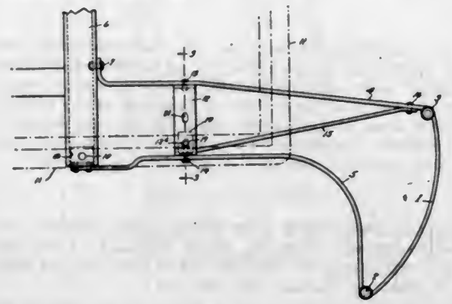


1. In a pump of the co-acting lobed impeller type, an air tight oil retaining enclosure surrounding and communicating with the shaft bearings thereof, and means for maintaining in said casing a lower pressure than in the pump casing at the shaft entry point comprising a passage leading from the upper regions of said enclosure to the interior of the impeller chamber in the region of lesser pressure.



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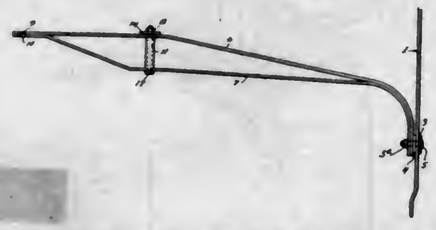
1,696,883. BUMPER. HERBERT S. JANDUS and LEON H. REED, Detroit, Mich., assignors to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Dec. 18, 1926. Serial No. 155,579. 26 Claims. (Cl. 293—55.)



1. The combination with a bumper impact element, of two resilient support arms having their forward ends adapted for attachment to a vehicle frame and their rear ends adapted for attachment at spaced points to the impace element, and a brace attached at its rear end to the rear portion of one support arm and at its front end to the other support arm.

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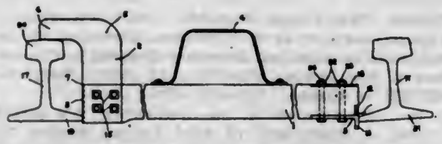
1,696,884. BUMPER SUPPORT. HERBERT S. JANDUS, Detroit, Mich., assignor to The C. G. Spring & Bumper Company, Detroit, Mich., a Corporation of Delaware. Filed Apr. 6, 1927. Serial No. 181,431. 16 Claims. (Cl. 293—55.)



1. A bumper support including bars held adjacent each other at their outer ends and spaced apart intermediate their ends, and means for holding such intermediate portions in proper spaced relation.

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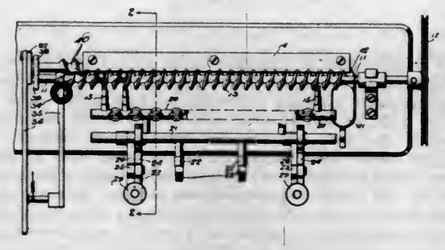
1,696,885. TRACK GAUGE. ROBERT EMMET KEOUGH, Montreal West, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 16, 1926. Serial No. 102,568. 5 Claims. (Cl. 33—144.)



1. A track gauge comprising a spacer bar adapted to be disposed between a pair of railway rails, a plurality of rail contactor elements for the bar carried at ends thereof and adapted to make simultaneous contact with both rails of the track, one of said elements adapted to rest upon the top surface of the rail head, a second contactor element at the same end of the bar relatively so disposed as to contact at its outer edge with the inner edge of the base flange of the rail upon whose head the first element rests, a third contactor element at the other end of the bar disposed to contact with the rail base flange of the companion rail of the track.

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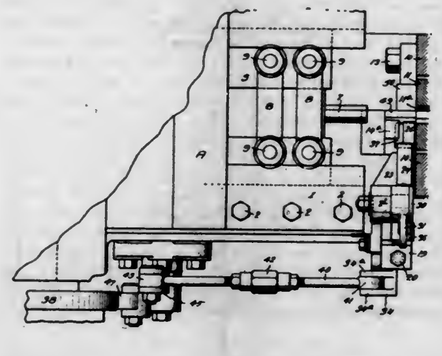
1,696,886. ANNEALING APPARATUS. HERBERT V. LECKIE and SAMUEL A. NORTH, Bridgeport, Conn., assignors to Remington Arms Company, Inc., a Corporation of Delaware. Filed July 16, 1925. Serial No. 44,011. 4 Claims. (Cl. 263—6.)



1. In a cartridge case annealing machine, a screw conveyor adapted to translate and simultaneously rotate cartridge cases, and heating means adjacent to said conveyor adapted to heat a definite section only of said cartridge cases.

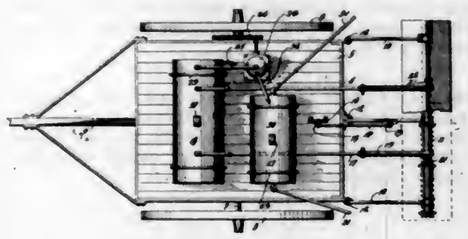
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1,696,887. MACHINE FOR MAKING HOT-PRESSED NUTS. CHARLES F. NEWPHER, Shaker Heights, Ohio, assignor to The Bourne-Fuller Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 26, 1926. Serial No. 131,567. 16 Claims. (Cl. 164—23.)



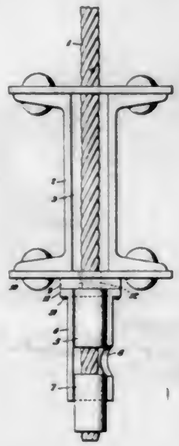
4. In a machine for making nut blanks from a bar, the combination of a shearing die having an opening, a punch so shaped as to shear a nut blank from such bar and force the same into said opening with the production of a slug, a stripper spaced from said die and adapted to prevent the withdrawal of the slug past said stripper by the punch, means for moving the punch toward and from the die, and means carried by said machine and operative by the punch-moving means for engaging the said slug and moving it away from the said punch, stripper, and die.

1,696,888. PORTABLE BURNING APPARATUS. FRANK D. SCHULTZ, Seattle, Wash., assignor of one-half to Albert Therry, Seattle, Wash. Filed June 26, 1926. Serial No. 118,766. 1 Claim. (Cl. 126—271.2.)



A portable burning apparatus of the class described comprising a wheeled supporting body, a fuel tank supported thereon, arms pivotally connected with the rear corners of the body, an arm pivotally connected with the rear portion of the body between the rear corners thereof, a tubular burner head supported by the lower ends of the arms, pipes leading from the fuel supply tank to the rear end of the body, flexible hose connections between the pipes and the burner head, a lever mounted upon the body, and an operative connection between the said lever and the intermediate arm for effecting vertical adjustment of the burner head.

1,696,889. ATTACHMENT FOR WIRE ROPE. RUMSEY W. SCOTT, Montclair, N. J., assignor to American Cable Company, Inc., a Corporation of Delaware. Original application filed Mar. 9, 1926, Serial No. 93,379. Divided and this application filed May 20, 1927. Serial No. 192,917. 6 Claims. (Cl. 24—114.5.)



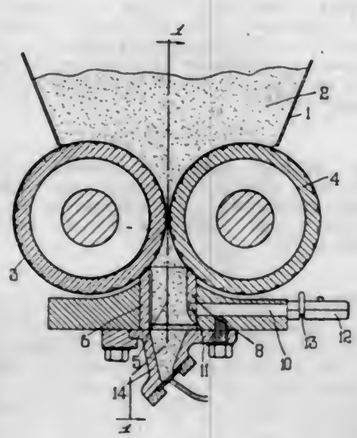
1. An attachment for wire rope, said attachment comprising a primary member secured permanently to the rope and adapted to sustain the stress of loads to which the rope is subjected, and means to indicate relative movement between said rope and member, said indicating means including an auxiliary member also secured to the rope in proximity to said primary attachment member.

1,696,890. AUTO SIGNAL. EDMUND FRANCIS SMART, Wallsend-on-Tyne, England, assignor of one-half to James William Hartley, Brooklyn, N. Y. Filed July 28, 1926, Serial No. 125,397, and in Great Britain July 14, 1925. 2 Claims. (Cl. 116—50.)



1. A signalling device for use on road vehicles and the like, comprising a plurality of sliding members and means whereby said members may be readily moved in either direction so as to project one at each side of the vehicle, pivoted arms adjacent to the outer end of each said sliding member and adapted to operate to increase the area of said signalling means.

1,696,891. MACHINE FOR SHEETING DOUGH. EDWARD MILNER CROSLAND, Helsby, England. Filed May 22, 1928, Serial No. 279,719, and in Great Britain Mar. 29, 1927. 4 Claims. (Cl. 107—14.)



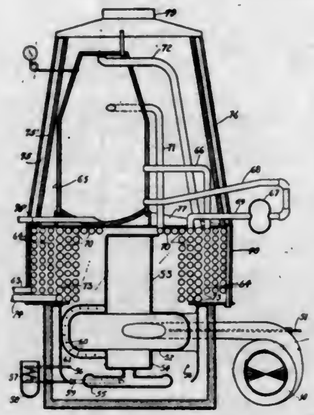
1. A machine for working plastic substances comprising in combination a compression chamber, an extrusion nozzle to receive the plastic substance from said compression chamber, the walls of said chamber comprising plurality of sections mounted for independent movement, and means to move and fix said sections independently whereby to permit more or less of the plastic substance to escape from said chamber opposite the respective sections without passing to said nozzle so that a uniform extrusion through said nozzle may be accomplished.

1,696,892. SEMIFLASH BOILER. CHARLES A. FRENCH, Chicago, and GUSTAF W. ENGSTROM, Riverside, Ill., assignors to International Harvester Company, a Corporation of New Jersey. Filed Nov. 11, 1920. Serial No. 423,271. 9 Claims. (Cl. 122—250.)

1. In a steam generator, the combination of a burner, a casing, a superheater of fixed heating surface, an evaporator of fixed heating surface, a preheater of fixed heating surface, the superheater, evaporator and preheater all surrounding the burner, a storage drum, means

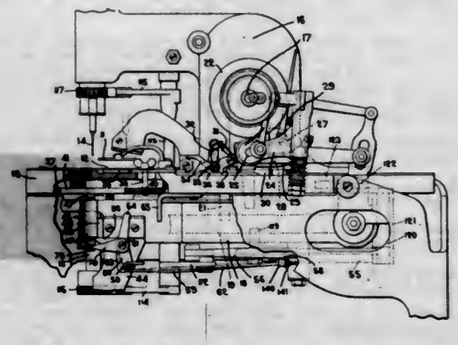


for supplying water to the preheater, a connection for discharging the water from preheater into the drum, a single connection for taking the water from the drum and de-



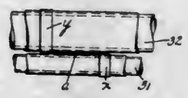
livering it to the evaporator, a pump in said single connection for forcing the water through the evaporator, a connection for delivering water and steam from the evaporator back to the drum above the center thereof, and a connection from the top of the drum for delivering the steam to the superheater.

1,696,893. BUTTONHOLE-SEWING MACHINE. JOHN KIEWICZ, Boston, Mass., assignor to The Reece Button Hole Machine Company, Boston, Mass., a Corporation of Maine. Filed May 9, 1927. Serial No. 189,792. 23 Claims. (Cl. 112—71.)



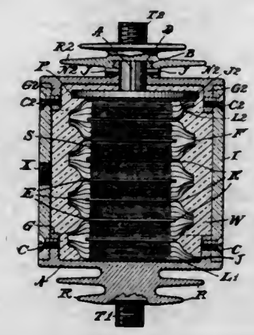
1. In a sewing machine, the combination with work-holding means, of stitch-forming mechanism, a stitch-frame supporting the stitch-forming mechanism, a work-frame supporting the work-holding means, means to give the work-holding means and stitch-forming mechanism a relative feeding movement in the direction of the length of the buttonhole, and means carried by the work-frame to cause said stitch-forming mechanism and work-holding means to have a relative lateral movement after the first few stitches have been formed and again just before the last stitches have been formed thereby to form a bar extending in the direction of the length of the buttonhole.

1,696,894. METHOD OF AND MACHINE FOR WAXING BLANKS. HAROLD S. LABOMBARDE, Nashua, N. H. Filed Feb. 15, 1926, Serial No. 88,218. Renewed June 12, 1928. 6 Claims. (Cl. 91—68.)



4. A machine for waxing blanks, said machine having means for applying hot wax to the blanks while travelling, a wax remover in position to act on a predetermined portion of the hot wax on each blank, and means for chilling the blanks.

1,696,895. HIGH-TENSION ELECTRICAL CONDENSER. GREENLEAF WHITTIER PICKARD, Newton Center, Mass., assignor to Wireless Specialty Apparatus Company, Boston, Mass., a Corporation of New York. Filed June 26, 1924. Serial No. 722,431. 34 Claims. (Cl. 175—41.)



1. A high tension electrical condenser comprising a sheet-stack consisting of a plurality of serially-connected stack-sections permitting high potential difference across the stack-ends; a tubular casing of insulating material extending around the sides of the stack and having end openings in the vicinity of the stack ends; a metal end structure held to said insulating casing and closing one end thereof, one end of the stack abutting against said metal end structure a metal structure fixedly held to the other end of said insulating casing; a metal compression member engaging the end of the stack adjacent said second metal end member; and a metal compression-adjusting member movably engaging said second end member and bearing against said compression member, holding the stack sheets in intimate contact with one another successively; said second end member transmitting clamping tension to the tubular insulating casing; and said insulating casing providing an extended creepage distance between the condenser ends of high potential difference.

1,696,896. PULP BOARD AND PROCESS OF MANUFACTURING THE SAME. HERBERT THEODORE PRICE, Burwood, Sydney, New South Wales, Australia. Filed Apr. 13, 1927, Serial No. 183,626, and in Australia June 14, 1926. 23 Claims. (Cl. 92—9.)

1. An improved pulp board comprising finely ground ti-tree.

Dec. 4, 1928

# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Aix-Olein Co., Inc., Brooklyn, N. Y. Oil-containing chemical preparations. 250,370; Dec. 4. Class 6.

Albemarle Paper Manufacturing Company, The, Richmond, Va. Blotting paper. 72,402; renewed Jan. 26, 1929.

Alexiades, Manuel, Madrid, Spain. Preparation to be used by injection in treating phthisis, etc. 250,191; Dec. 4; Serial No. 266,450; published Sept. 18, 1928. Class 6.

Allen Air Appliance Company, Inc., New York, N. Y. Pneumatic apparatus and equipment. 250,348; Dec. 4; Serial No. 269,931; published Sept. 18, 1928. Class 23.

Allen, Horace L., Mfg. Co., Nashville, Tenn. Shirts. 250,184; Dec. 4; Serial No. 269,271; published Sept. 18, 1928. Class 39.

Amazon Knitting Company, Muskegon, Mich. Underwear. 250,180–1; Dec. 4; Serial Nos. 269,381–2; published Sept. 11, 1928. Class 39.

American Broadtail Corporation, New York, N. Y. Lambskins. 250,219; Dec. 4; Serial No. 268,837; published Sept. 4, 1928. Class 1.

American Hair Felt Company, Chicago, Ill. Undercushion for linoleum and cork carpets. 250,198; Dec. 4; Serial No. 265,768; published Aug. 14, 1928. Class 50.

American Hair Felt Company, Chicago, Ill. Undercushion for linoleum and cork carpets. 250,200; Dec. 4; Serial No. 265,460; published Aug. 14, 1928. Class 50.

American Nuplax Corporation, Wilmington, Del. Plastic material. 250,206; Dec. 4; Serial No. 265,082; published Sept. 4, 1928. Class 1.

Anderson, Clarence M., Oklahoma City, Okla. Inclosures for prescriptions and file cabinets. 250 343; Dec. 4; Serial No. 270,106; published Sept. 18, 1928. Class 32.

Anti-Frost Company. (See Cahill, Thomas P.)

Arkadelphia Milling Co., Arkadelphia, Ark. Wheat flour, meal, horse feed, etc. 250,179; Dec. 4; Serial No. 269,441; published Sept. 11, 1928. Class 46.

Arley, Lynne, Inc., New York, N. Y. Cosmetics. 250,369; Dec. 4. Class 6.

Arley, Lynne, Inc., New York, N. Y. Creams and lotions. 250,374–5; Dec. 4. Class 6.

Arnold, F. R., & Co., New York, N. Y. Perfumery extracts, toilet powders, and bath crystals. 250 251; Dec. 4; Serial No. 180,166; published Dec. 25, 1923. Class 6.

Art Importing Co. (See Gilbert, Gustav.)

Artloom Corporation, Philadelphia, Pa. Textile rugs. 250,363–7; Dec. 4. Class 42.

Aspinook Co., The, Jewett City, Conn. Leather substitutes and pyroxylin-coated fabrics. 250,318; Dec. 4; Serial No. 268,074; published Aug. 21, 1928. Class 50.

Balfour, Guthrie & Co., San Francisco, Calif. Insecticides. 250,316; Dec. 4; Serial No. 268,204; published Sept. 4, 1928. Class 6.

Barnes, W. O., Co. Inc., Detroit, Mich. Saws. 250,290; Dec. 4; Serial No. 270,735; published Sept. 18, 1928. Class 23.

Barouh Hermanos, Habana, Cuba. Perfumes, toilet powders, and toilet waters. 250,334; Dec. 4; Serial No. 263,915; published Aug. 21, 1928. Class 6.

Bercy Laboratories. (See Fleron, M. M., & Son, Inc.)

Berg, Charles F., Portland, Oreg. Hosiery. 250,342; Dec. 4; Serial No. 270,227; published Sept. 18, 1928. Class 39.

Black Star Mink Farm, Chilton, Wis. Fur pelts. 250,245; Dec. 4; Serial No. 267,226; published Aug. 21, 1928. Class 1.

Boyd-Richardson Company, St. Louis, Mo. Shirts. 250,315; Dec. 4; Serial No. 268,206; published Sept. 18, 1928. Class 39.

Burnet Company, The, New York, N. Y. Ground-wood products. 250,205; Dec. 4; Serial No. 265,138; published Aug. 14, 1928. Class 1.

Burton-Dixie Corporation, Chicago, Ill. Metal bed springs. 250,299; Dec. 4; Serial No. 270,534; published Sept. 18, 1928. Class 32.

Butterfield, Fred, & Co., Inc., New York, N. Y. Wool, cotton, silk, rayon, and linen fabrics. 250,373; Dec. 4. Class 42.

Cahill, Thomas P., doing business as Anti-Frost Company, Philadelphia, Pa. Liquid preparation for frostbites and chilblains. 250,312; Dec. 4; Serial No. 268,420; published Sept. 11, 1928. Class 6.

Capital City Baking Co., Harrisburg, Pa. Cakes and bread. 250,204; Dec. 4; Serial No. 265,194; published Sept. 18, 1928. Class 46.

Charleston Manufacturing Co., Charleston, W. Va. Overalls, work jackets, and coveralls. 250,223; Dec. 4; Serial No. 268,772; published Sept. 11, 1928. Class 39.

Charmette Co. Inc., New York, N. Y. Noninflammable cellulose material for windshields, optical frames, watch crystals, etc. 250,324; Dec. 4; Serial No. 264,714; published Sept. 11, 1928. Class 1.

Chicago Mail Order Company, Chicago, Ill. Coats and dresses. 250,202; Dec. 4; Serial No. 265,260; published Sept. 11, 1928. Class 39.

Chipman's, Chas., Sons, Easton, Pa., to Chas. Chipman's Sons Co. Inc., New York, N. Y., successor. Hosiery. 71,179; renewed Nov. 10, 1928.

Cido Germ Co., The. (See Daniel, Francis E.)

Circle Lunch Corporation of America, Reno, Nev., and Los Angeles, Calif. Baked stuffs. 250,197; Dec. 4; Serial No. 265,950; published Sept. 18, 1928. Class 46.

Citrus Products Company, Chicago, Ill. Beverages and compounds for making the same. 250,351; Dec. 4; Serial No. 269,768; published Sept. 18, 1928. Class 45.

Cohen & Wilks, Limited, Cheetham, England. Rainproof coats, topcoats, suits, etc. 250,336; Dec. 4; Serial No. 262,842; published Sept. 11, 1928. Class 39.

Cole Chemical Company, Wilmington, Del., and St. Louis, Mo. Preparation for the reduction of obesity, for the treatment of ovarian disfunction, etc. 250,301; Dec. 4; Serial No. 268,586; published Sept. 11, 1928. Class 6.

Coleman & Company, Inc., Philadelphia, Pa. Coal. 250,227; Dec. 4; Serial No. 268,678; published Sept. 11, 1928. Class 1.

Crown Paint & Color Works, Los Angeles, Calif. Paints, varnishes, paint enamels, etc. 250,268; Dec. 4; Serial No. 234,380; published Sept. 18, 1928. Class 16.

Cullum & Boren Company, Dallas, Tex. Hunting coats, pants, and vests, football trousers, etc. 250,193; Dec. 4; Serial No. 266,356; published Sept. 11, 1928. Class 39.

Daniel, Francis E., doing business as The Cido Germ Co., Eden, Tex. Healing antiseptic. 250,362; Dec. 4; Serial No. 266,793; published Sept. 4, 1928. Class 6.

Dean, O. W., doing business as Korodyne Company, St. Joseph, Mich. Preparation for the treatment of asthma. 250,170; Dec. 4; Serial No. 269,641; published Sept. 18, 1928. Class 6.

Dentists' Supply Co., The, New York, N. Y., and York, Pa., to The Dentists' Supply Company of New York, New York, N. Y. Porcelain teeth. 70,927; renewed Oct. 20, 1928.

Denver Fire Clay Company, The, Denver, Colo. Diatomaceous or infusorial earth. 250,323; Dec. 4; Serial No. 262,156; published Aug. 7, 1928. Class 1.

Detroit Creamery Company, Detroit, Mich. Milk and cream. 250,344; Dec. 4. Serial No. 270,018; published Sept. 4, 1928. Class 46.

Diatomite Products Company, Los Angeles, Calif. Diatomite. 250,263–4; Dec. 4; Serial Nos. 248,815–16; published Aug. 7, 1928. Class 1.

Duggar, Llewellyn G., Hope Hull, Ala. Disinfectant. 250,262; Dec. 4; Serial No. 249,266; published Sept. 18, 1928. Class 6.

Duncan, William, doing business as Python Grip Brake & Equipment Co., Los Angeles, Calif. Brake lining. 250,292; Dec. 4; Serial No. 270,693; published Sept. 18, 1928. Class 35.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Air-tight, water-tight, acid and heat resistant fabrics. 250,231; Dec. 4; Serial No. 267,942; published Sept. 11, 1928. Class 50.

Eau de Cologne- & Parfümerie Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Eback, Edward, doing business as Eback Mfg. Co., Indianapolis, Ind. Automobile cleaning and polishing liquid. 250,250; Dec. 4; Serial No. 266,856; published Sept. 18, 1928. Class 16.

Eczematol Chemical Co. Inc. (See Kohosoff, Boris.)

Ellison Furniture & Carpet Co., Fort Worth, Tex. Mattresses, bed springs, etc. 250,298; Dec. 4; Serial No. 270,630; published Sept. 18, 1928. Class 32.

Engel, Joseph, Company, New York, N. Y. Coats, suits, and dresses. 250,350; Dec. 4; Serial No. 269,776; published Sept. 18, 1928. Class 39.

Excelsior Quilting Co., New York, N. Y., to Excelsior Quilting Co. of New York, Long Island City, N. Y. Lamb's-wool interlining. 73,161; renewed Mar. 23, 1929.

Falls City Ice & Beverage Company, Louisville, Ky. Beverage. 250,355; Dec. 4; Serial No. 269,724; published Sept. 18, 1928. Class 48.

Federal Chemical Company, Louisville, Ky. Fertilizers. 72,244; renewed Jan. 12, 1929.

Federal Chemical Company, Louisville, Ky. Fertilizers. 72,361; renewed Jan. 19, 1929.

Finery Silk Stocking Co., Inc., New York, N. Y. Hosiery. 250,178; Dec. 4; Serial No. 269,465; published Sept. 11, 1928. Class 39.

Fleron, M. M., & Son, Inc., doing business at Bercy Laboratories, Trenton, N. J. Hairdressing. 250,359; Dec. 4; Serial No. 269,650; published Sept. 18, 1928. Class 6.

Floatstone Products Company, Las Vegas, Nev. Diatomaceous earth. 250,354; Dec. 4; Serial No. 269,727; published Sept. 18, 1928. Class 1.

Ford Motor Company, Fordson, Mich. Speedometers, ammeters, etc. 250,230; Dec. 4; Serial No. 268,595; published Sept. 18, 1928. Class 26.

Forhan Company, New York, N. Y. Pyorrhea preparation and dentifrice. 250,188; Dec. 4; Serial No. 269,063; published Sept. 18, 1928. Class 6.

Forster Automatic Poultry Separator Company, Emeryville, Calif. Poultry nests. 250,327; Dec. 4; Serial No. 264,574; published Sept. 4, 1928. Class 50.

Frenchié Frocks, Inc., San Francisco, Calif. Wash frocks, staple and novelty smocks, and aprons. 250,305; Dec. 4; Serial No. 268,338; published Sept. 18, 1928. Class 39.
Fried. Krupp Aktiengesellschaft, Essen-on-the-Rhur, Germany. Metallic carbides and their alloys. 250,233; Dec. 4; Serial No. 267,890; published Sept. 18, 1928. Class 14.
"Gets-It" Inc., Chicago, Ill. Preparation for corns, calli, warts, etc. 250,241; Dec. 4; Serial No. 267,573; published Sept. 4, 1928. Class 6.
Gilbert, Gustav, doing business as Art Importing Co., Philadelphia, Pa. Artists' oil colors. 250,187; Dec. 4; Serial No. 269,188; published Sept. 18, 1928. Class 16.
Gimbel Brothers, inc., New York, N. Y. Women's dresses, coats, suits, and sweaters. 250,267; Dec. 4; Serial No. 240,781; published Sept. 11, 1928. Class 39.
Goldhill, Edward S., New York, N. Y. Doughnuts. 250,174; Dec. 4; Serial No. 269,582; published Sept. 18, 1928. Class 46.
Goodrich, B. F., Company, The, New York, N. Y. Rubber vehicle tires. 250,311; Dec. 4; Serial No. 268,433; published Sept. 18, 1928. Class 35.
Gorman, Ed. A., Incorporated, Dayton, Ky. Coal. 250,321; Dec. 4; Serial No. 267,952; published Aug. 21, 1828. Class 1.
Grant, W. T., Company, Lynn, Mass., and New York, N. Y. Hosiery and work shirts. 250,349; Dec. 4; Serial No. 269,842; published Sept. 18, 1928. Class 39.
Greer Staple Cotton Breeding Farms, Iowa Park, Tex. Baled lint cotton and sacked cottonseed. 250,314; Dec. 4; Serial No. 268,220; published Sept. 11, 1928. Class 1.
Gring, R. M., doing business at New Bloomfield Hosiery Mills, New Bloomfield, Pa. Cotton half hose. 250,242; Dec. 4; Serial No. 267,444; published Sept. 18, 1928. Class 39.
Gutta Percha & Rubber Manufacturing Company, The, New York, to Gutta-Percha & Rubber Manufacturing Company, Buffalo, N. Y. Fire hose. 72,535; renewed Feb. 2, 1929.
Haartz, J. C., Company, New Haven, Conn. Waterproof fabrics. 250,222; Dec. 4; Serial No. 268,783; published Aug. 28, 1928. Class 50.
Haeseler, William, jr., Tonawanda, N. Y. Cementitious products. 250,377; Dec. 4. Class 12.
Hahn, Sig. J. F., doing business as The Hahn Laboratories, Conneaut, Ohio. Deodorant and disinfectant preparations for use in the preservation of badly-decomposed bodies and the elimination of obnoxious odors and for the purification of sick rooms. 250,229; Dec. 4; Serial No. 268,601; published Sept. 11, 1928. Class 6.
Hair & Scalp Institute, Inc., Chicago, Ill. Preparation for the skin and the hair. 250,102; Dec. 4; Serial No. 266,371; published Sept. 4, 1928. Class 6.
Halon & Goodman Co., Belleville, N. J. Paintbrushes, varnish brushes, etc. 250,221; Dec. 4; Serial No. 268,784; published Sept. 18, 1928. Class 29.
Halosine Company, Philadelphia, Pa. Antiseptic deodorant, prophylactic, scalp tonic, etc. 250,203; Dec. 4; Serial No. 265,212; published Sept. 18, 1928. Class 6.
Hammer Beverages. (See Rascoff, David.)
Harris, John J., doing business as No Equal Products Co., Chicago, Ill. Dentifrices, dental creams, etc. 250,240; Dec. 4; Serial No. 267,707; published Sept. 18, 1928. Class 6.
Harris, L., Company, Pittsburgh, Pa. Cigars and stogies. 250,341; Dec. 4; Serial No. 270,377; published Sept. 18, 1928. Class 17.
Heat Proof Table Mat Company, St. Louis, Mo. Table mats. 250,261; Dec. 4; Serial No. 251,056; published Aug. 21, 1928. Class 50.
Hexter Bros., Cleveland, Ohio. Card-display rack. 250,297; Dec. 4; Serial No. 270,635; published Sept. 18, 1928. Class 32.
Hickey-Freeman Co., Rochester, N. Y. Men's suits. 250,286; Dec. 4; Serial No. 270,424; published Sept. 18, 1928. Class 39.
Hollander, Joseph, Inc., Newark, N. J. Dressed and dyed furs. 250,258; Dec. 4; Serial No. 258,910; published Aug. 7, 1928. Class 1.
Home Makers Educational Service. (See Wadsworth, Gerald B.)
Horwood, E. H., & Co., Hoboken, N. J., and New York, N. Y. Sleeping garments comprising at present pajamas and nightgowns of textile fabrics. 250,285; Dec. 4; Serial No. 252,845; published Sept. 11, 1982. Class 39.
Hudson, J. L., Company, The, Detroit, Mich. Hosiery. 250,329; Dec. 4; Serial No. 264,306; published Sept. 18, 1928. Class 39.
Hunt-Rankin Leather Co., Boston, Mass. Leathers. 250,358; Dec. 4; Serial No. 269,661; published Sept. 18, 1928. Class 1.
Hy-Art Hy-Way Display Corporation, Los Angeles, Calif. Statuary for outdoor display. 250,325; Dec. 4; Serial No. 264,687; published Aug. 21, 1928. Class 50.
Iron King Overall Company, Baltimore, Md. Overalls, pants, work shirts, etc. 250,326; Dec. 4; Serial No. 264,646; published Sept. 18, 1928. Class 39.
Jackson Brewing Company, New Orleans, La. Nonalcoholic malt cereal beverages. 250 347; Dec. 4; Serial No. 269,960; published Sept. 18, 1928. Class 48.
Jacobs, Paul B., doing business as Jaynard Cié, New York, N. Y. Astringents, cerates, bleach creams, etc. 250,183; Dec. 4; Serial No. 269,293; published Sept. 14, 1928. Class 6.
James Manufacturing Company, Fort Atkinson, Wis. Name plates and poultry equipment. 250,249; Dec. 4; Serial No. 267,053; published Aug. 7, 1928. Class 50.
Jaynard Cié. (See Jacobs, Paul B.)
Jeddo-Highland Coal Company, Jeddo, Pa. Coal. 250,260; Dec. 4; Serial No. 251,560; published Sept. 18, 1928. Class 1.
Kaplan, Joseph A., New York, N. Y. Rubber bath mats. 250,338; Dec. 4; Serial No. 262,567; published Sept. 11, 1928. Class 50.
Karnak Chemical Company, West Chester, Pa. Metal reflectors. 250,194; Dec. 4; Serial No. 266,253; published Sept. 4 1928. Class 50.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Shirts. 250,317; Dec. 4; Serial No. 268,160; published Sept. 11, 1928. Class 39.
Keller Knitting Company, The, Cleveland, Ohio. Knitted sweaters, sweater coats, and jackets for men, women, and children. 250,239; Dec. 4; Serial No. 267,774; published Sept. 18, 1928. Class 39.
Kelly, Wm., Milling Company, assignor to William Kelly Milling Co., Hitchison, Kans. Wheat flour. 69,629; renewed June 23, 1928.
Kimura, Hidezo, Sakagoye Sakagoye-Mura Akogun Hyogoken, Japan. Magnesium carbonates. 250,272; Dec. 4; Serial No. 257,878; published Sept. 4, 1928. Class 6.
Kinerk, E., Indianapolis, Ind. Hosiery. 250,283; Dec. 4; Serial No. 255,715; published Sept. 18, 1928. Class 39.
Klein, Lazare, Company, San Francisco, Calif. Dresses. 250,320; Dec. 4; Serial No. 267,970; published Sept. 18, 1928. Class 39.
Kohosoff, Boris, to Eczematol Chemical Co. Inc., New York, N. Y., successor. Salve. 69,748; renewed June 30, 1928.
Korodyne Company. (See Dean, O. W.)
Kotar Chemical Company, The. (See Weinberger Drug Company, The.)
La Crosse Garment Co., La Crosse, Wis. Women's house dresses, frocks, and dresses. 250,281; Dec. 4; Serial No. 252,716; published Sept. 18, 1928. Class 39.
Land Shirt Co., Orange, N. J. Men's and boys' dress and negligee shirts. 250,237; Dec. 4; Serial No. 267,842; published Sept. 11, 1928. Class 39.
La Société L. Blanchard & Cie., Paris, France. Clothing. 250,271; Dec. 4; Serial No. 258,130; published Sept. 18, 1928. Class 39.
Lava Crucible Company of Pittsburgh, Pittsburgh, Pa. Material for fluxing the impurities and oxides in nonferrous-metal mixtures. 250,368; Dec. 4. Class 6.
Lawrenceburg Roller Mills Co., Lawrenceburg, Ind. Wheat and self-rising flour. 250,173; Dec. 4; Serial No. 269,592; published Sept. 18, 1928. Class 46.
Lazard, Raymond, Paris, France. Stockings. 250,182; Dec. 4; Serial No. 269,356; published Sept. 18, 1928. Class 39.
Lentino, Antonio, doing business as Quinolive Company, Boston, Mass. Hair tonic. 250,357; Dec. 4; Serial No. 269,669; published Sept. 18, 1928. Class 6.
Lilly, Eli, and Company, Indianapolis, Ind. Chemical and pharmaceutical products. 250,331; Dec. 4; Serial No. 264,377; published Sept. 4, 1928. Class 6.
Lillybrook Coal Company, Sullivan and Beckley, W. Va. Bituminous coal. 250,337; Dec. 4; Serial No. 262,664; published Aug. 7, 1928. Class 1.
Lord, F. T., Polish Co., Somerville, to F. T. Lord Polish Co., Cambridge, Mass. Silver and gold polish. 73,278; renewed Apr. 6, 1929.
Macy, R. H., & Co., Inc., New York, N. Y. Insecticide. 250,309; Dec. 4; Serial No. 268,500; published Sept. 4, 1928. Class 6.
Manbeck Baking Company, Lemoyne, Pa. Bread. 250,296; Dec. 4; Serial No. 270,639; published Sept. 11, 1928. Class 46.
Manuscura. (See Willsie, Henry E.)
Marans, Harry A., New York, N. Y. Slips, bloomers, steplns, etc. 250,319; Dec. 4; Serial No. 267,982; published Sept. 11, 1928. Class 39.
Margolis, Jack, Waterbury, Conn. Chemical bleaching preparation. 250,304; Dec. 4; Serial No. 268,552; published Aug. 14, 1928. Class 6.
Martin Varnish Company, Chicago, Ill. Varnishes. 250,280; Dec. 4; Serial No. 270,431; published Sept. 18, 1928. Class 16.
McCloskey, George, doing business as G. McC. Company, New Orleans, La. Insecticides. 250,220; Dec. 4; Serial No. 268,797; published Sept. 18, 1928. Class 6.
McCullough's, J. M., Sons Co., Cincinnati, Ohio. Lawngrass seed. 250,176–7; Dec. 4; Serial Nos. 269,534–5; published Sept. 18, 1928. Class 1.
McGavin's Bread, Inc., Denver, Colo. Bread. 250,226; Dec. 4; Serial No. 268,697; published Sept. 18, 1928. Class 46.
McLean, Dr. J. H., Medicine Co., The, St. Louis, Mo. Medicinal preparation. 250,378; Dec. 4. Class 6.
Meeker Sugar Refining Company, Chicago, Ill., and Meeker, La. Sugar-cane food syrup. 250,190; Dec. 4; Serial No. 265,489; published Aug. 7, 1928. Class 46.
Mehmken Oil Co., Burlington, Iowa. Gasoline. 250,284; Dec. 4; Serial No. 254,467; published Aug. 7, 1928. Class 15.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Creamery butter. 250,288; Dec. 4; Serial No. 270,851; published Sept. 18, 1928. Class 46.



Michigan Alkali Company, Wyandotte, Mich. Calcium cloride. 250,303; Dec. 4; Serial No. 268,554; published Sept. 4, 1928. Class 6.
Midland Coal Sales Company, Cincinnati, Ohio. Coal. 250,207; Dec. 4; Serial No. 265,055; published Sept. 4, 1928. Class 1.
Midlnnd Coal Sales Company, Cincinnati, Ohio. Coal. 250,208; Dec. 4; Serial No. 265,052; published Sept. 4, 1928. Class 1.
Midway Chemical Co., Chicago, Ill. Chemical fluid for cigarette lighters. 250,371; Dec. 4. Class 6.
Mintolene Products Co., New York, N. Y. Antiseptic. 250,255; Dec. 4; Serial No. 261,376; published Sept. 11, 1928. Class 6.
Moderwell, C. M., assignor to Old Ben Coal Corporation, Chicago, Ill. Coal. 73,274; renewed Apr. 6, 1929.
Moler Products Limited, London, England. Raw or partly-prepared vegetable, animal, and mineral substances. 250,333; Dec. 4; Serial No. 264,038; published Sept. 4, 1928. Class 1.
Monmonier, Helen F., Catonsville, Baltimore, Md. Biscuit dough. 250,279; Dec. 4; Serial No. 270,435; published Sept. 18, 1928. Class 46.
Monnig Dry Goods Company, Fort Worth, Tex. Dresses. 250,175; Dec. 4; Serial No. 269,536; published Sept. 18, 1928. Class 39.
Mooresville Cotton Mills, Mooresville, N. C. Turkish towels. 250,287; Dec. 4; Serial No. 271,004; published Sept. 18, 1928. Class 42.
Moskowitz, Emanuel, New York, N. Y. Ladies' frocks. 250,256; Dec. 4; Serial No. 260,743; published July 10, 1928. Class 39.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Eau de cologne water, perfumery, etc. 250,322; Dec. 4; Serial No. 261,803; published Sept. 18, 1928. Class 6.
Müller, Paul, Solingen, Germany. Razors and blades therefor. 250,236; Dec. 4; Serial No. 267,853; published Sept. 18, 1928. Class 23.
National Chemical Holdings Ltd., The, London, England. Bath salts. 250,330; Dec. 4; Serial No. 264,381; published Sept. 11, 1928. Class 6.
Nebel Knitting Company, Charlotte, N. C. Hosiery. 250,346; Dec. 4; Serial No. 269,974; published Sept. 18, 1928. Class 39.
New Bloomfield Hosiery Mills. (See Gring, R. M.)
Nichols, C. H. (See Richert Bros.)
No Equal Products Co. (See Harris, John J.)
Noma Electric Corporation, New York, N. Y. Christmas-tree holders. 250,259; Dec. 4; Serial No. 251,851; published Sept. 11, 1928. Class 50.
Norden Laboratories, Lincoln, Norfolk, and Grand Island, Nebr., and Sioux City, Iowa. Veterinary biologics, serums, pharmaceuticals, and supplies. 250,244; Dec. 4; Serial No. 267,313; published Sept. 11, 1928. Class 6.
Normandin Bros. Co., Los Angeles, Calif. Dresses. 250,353; Dec. 4; Serial No. 269,740; published Sept. 18, 1928. Class 39.
Occidental Seed Company, Salt Lake City, Utah. Field seeds and seed grains. 250,275; Dec. 4; Serial No. 226,366; published Aug. 14, 1928. Class 1.
Ohio Leather Company, The, Girard, Ohio. Leathers. 250,332; Dec. 4; Serial No. 253,183; published Aug. 21, 1928. Class 1.
Old Ben Coal Corporation. (See Moderwell, C. M., assignor.)
Oregon Kelp-Ore Products Company, The, Cloverdale, Oreg. Medicine and pharmaceutical preparation. 250,276; Dec. 4; Serial No. 222,789; published Mar. 23, 1926. Class 6.
Paris, Isabey, Inc., Wilmington, Del., and New York, N. Y. Bath powder, compacts, lip sticks, etc. 250,248; Dec. 4; Serial No. 267,128; published Sept. 4, 1928. Class 6.
Penn Products Corporation, Aspers, Pa. Clay. 250,225; Dec. 4; Serial No. 268,699; published Aug. 28, 1928. Class 1.
Phillips, Charles H., Chemical Company, The, Glenbrook, Conn., and New York, N. Y. Preparation of magnesia. 250,302; Dec. 4; Serial No. 268,561; published Sept. 18, 1928. Class 6.
Pittsburgh Coal Company, Pittsburgh, Pa. Coal. 250,246; Dec. 4; Serial No. 267,207; published Aug. 7, 1928. Class 1.
Pittsburgh Crushed Steel Company, Pittsburgh, Pa. Crushed steel for use as an abrasive. 73,380; renewed Apr. 13, 1929.
Pneumo-Phthysine Chemical Manufacture Company, Chicago, Ill. Pharmaceutical products. 250,189; Dec. 4; Serial No. 269,056; published Sept. 18, 1928. Class 6.
Python Grip Brake & Equipment Co. (See Duncan, William.)
Quinolive Company. (See Lentino, Antonio.)
Rabalm Company, The. (See Russia Cement Company.)
Racine, Jules, & Co., New York, N. Y. Watches and watch movements. 72,572; renewed Feb. 2, 1929.
Rappazzo, Guiseppe, Boston, Mass. Hair tonic and preparations for skin affections. 250,186; Dec. 4; Serial No. 269,205; published Sept. 11, 1928. Class 6.
Rascoff, David, doing business as Hammer Beverages, Brooklyn, N. Y. Beverages and sirups for making the same. 250,294; Dec. 4; Serial No. 270,679; published Sept. 18, 1928. Class 45.
Reliance Manufacturing Company, Chicago, Ill. Blouses, shirts, and play suits. 250,282; Dec. 4; Serial No. 256,374; published Sept. 18, 1928. Class 39.
Rhoads, J. E., & Sons, Philadelphia, Pa. Lace leather in the piece. 250,308; Dec. 4; Serial No. 268,512; published Sept. 11, 1928. Class 1.
Richert Bros., to C. H. Nichols, doing business as Richert Bros., Los Angeles, Calif., successor. Coffee. 72,235; renewed Jan. 12, 1929.
Richter, F. Ad., & Co. of New York, Brooklyn, N. Y. Liniment. 250,313; Dec. 4; Serial No. 268,307; published Aug. 14, 1928. Class 6.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 250,269; Dec. 4; Serial No. 233,847; published Sept. 11, 1928. Class 39.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 250,270; Dec. 4; Serial No. 231,405; published Sept. 11, 1928. Class 39.
Rollins Hosiery Mills, Des Moines, Iowa. Hosiery. 250,273; Dec. 4; Serial No. 231,403; published Sept. 11, 1928. Class 39.
Rothenberg & Schloss Cigar Co., Kansas City, Mo. Cigars. 250,291; Dec. 4; Serial No. 270,725; published Sept. 18, 1928. Class 17.
Rothschild Greenfield Co., St. Louis, Mo. Outer shirts. 250,209; Dec. 4; Serial No. 269,153; published Sept. 18, 1928. Class 39.
Russia Cement Company, doing business as The Rabalm Company, Gloucester, Mass. Healing salves and ointments, etc. 250,185; Dec. 4; Serial No. 269,260; published Sept. 18, 1928. Class 6.
Samodan Company, San Antonio, Tex. Stomach powder for use as an antacid gas eliminant. 250,228; Dec. 4; Serial No. 268,035; published Sept. 11, 1928. Class 6.
Schwab, Leopold B., Newark, N. J. Hosiery. 250,310; Dec. 4; Serial No. 268,466; published Sept. 11, 1928. Class 39.
Scocos, Dionisia, doing business as The Soterion Co., New York, N. Y. Medicinal preparation. 250,339; Dec. 4; Serial No. 262,266; published Sept. 18, 1928. Class 6.
Shoecraft Shop Inc., New York, N. Y. Shoe-trees. 250,196; Dec. 4; Serial No. 265,980; published Aug. 28, 1928. Class 50.
Showers Brothers Company, Bloomington, Ind. Household furniture. 250,361; Dec. 4; Serial No. 267,515; published Sept. 25, 1928. Class 32.
Società Anonima Cellulosa, Rome, Italy. Vegetable fibres for making felts, fabrics, and yarns. 250,257; Dec. 4; Serial No. 259,600; published Sept. 11, 1928. Class 1.
Société Martial et Armand et Cie., Paris, France. Perfume, toilet water, face powder, talcum powder, etc. 250,190; Dec. 4; Serial No. 266,562; published Sept. 11, 1928. Class 6.
Société Parisienne d'Essences Rares et de Parfums, Paris, France. Perfumery products. 250,274; Dec. 4; Serial No. 229,756; published Aug. 24, 1926. Class 6.
Sorensen, Henry, San Francisco, Calif. Steel reinforcements, girders, etc. 250,376; Dec. 4. Class 12.
Soterion Co., The. (See Scocos, Dionisia.)
Spinks, William A., & Co., to William A. Spinks & Company, Chicago, Ill., successor. Billiard chalk. 70,308; renewed Aug. 18, 1928.
Squibb, E. R., & Sons, New York, N. Y. Shaving brushes. 250,345; Dec. 4; Serial No. 269,993; published Sept. 18, 1928. Class 29.
Starlight & Son, New York, N. Y. Cigars. 250,289; Dec. 4; Serial No. 270,807; published Sept. 18, 1928. Class 17.
Stickler & Magnuson Aktiebolag, Stockholm, Sweden. Drill chucks, drills, hammers, etc. 250,172; Dec. 4; Serial No. 269,614; published Sept. 18, 1928. Class 23.
Straffon, Chas. W., Lawrence, Kans. Antiseptic preparation. 250,360; Dec. 4; Serial No. 229,131; published June 29, 1926. Class 6.
Strauss, Levi, & Company, San Francisco, Calif. Overalls. 250,265; Dec. 4; Serial No. 248,368; published Sept. 18, 1928. Class 39.
Swinex Company, Cedar Rapids, Iowa. Hog tonics and appetizers. 250,254; Dec. 4; Serial No. 261,533; published Sept. 18, 1928. Class 6.
Tagore, H. T., Union City, N. J. Shampoo preparations. 250,243; Dec. 4; Serial No. 267,326; published Sept. 11, 1928. Class 6.
Tartikoff, J., & Sons, New York, N. Y. Boys' suits. 250,224; Dec. 4; Serial No. 268,711; published Sept. 4, 1928. Class 39.
Taylor and Drew, Philadelphia, Pa. Bread. 250,278; Dec. 4; Serial No. 217,427; published Sept. 18, 1928. Class 46.
Tennessee Products Corporation, Nashville, Tenn. Charcoal. 250,201; Dec. 4; Serial No. 265,304; published Aug. 21, 1928. Class 1.
Textileather Corporation, Newark, N. J. Coated fabric. 250,218; Dec. 4; Serial No. 268,893; published Sept. 4, 1928. Class 50.
Tildesley Coal Company, The, Cincinnati, Ohio. Coal. 250,307; Dec. 4; Serial No. 268,521; published Sept. 11, 1928. Class 1.
Townsend, Ernest J., East Lynn, Mass. Beverages and syrups and concentrates for making the same. 250,293; Dec. 4; Serial No. 270,681; published Sept. 18, 1928. Class 45.

Travers, Martha E., Columbus, Ohio. Mariaceous material. 250,247; Dec. 4; Serial No. 267,163; published Aug. 21, 1928. Class 1.
Tufts & Friedman, Boston and Lynn, Mass. Leather and canvas boots and shoes. 69,541; renewed June 16, 1928.
Union Carbide Company, New York, N. Y. Calcium carbide. 73,153; renewed Mar. 23, 1929.
Unique Manufacturing Co., Tacony, Philadelphia, Pa. Ink-removing fluid. 250,217; Dec. 4; Serial No. 268,895; published Sept. 18, 1928. Class 6.
United Rabbitries Marketing Inc., Duarte, Calif. Hides and furs. 250,238; Dec. 4; Serial No. 267,814; published Aug. 21, 1928. Class 1.
U. S. Fur Auction Brokerage Corp., New York, N. Y. Furs. 250,328; Dec. 4; Serial No. 264,546; published Aug. 21, 1928. Class 1.
Universal Pictures Corporation, New York, N. Y. Series of animated motion-picture cartoons. 250,300; Dec. 4; Serial No. 270,450; published Sept. 18, 1928. Class 26.
Utility Manufacturing Company, Inc., Baltimore, Md. Kitchen utensils. 250,266; Dec. 4; Serial No. 244,035; published June 7, 1927. Class 13.
Viscose Chemical Products Company, The, Cleveland, Ohio. Chemical for opening and cleansing drains, etc. 250,171; Dec. 4; Serial No. 269,617; published Sept. 18, 1928. Class 6.
Wadsworth, Gerald B., doing business as Home Makers Educational Service, Freeport, N. Y. Cocoa, bread and pastry flour, canned fish, etc. 250,252; Dec. 4; Serial No. 248,980; published Apr. 10, 1928. Class 46.
Wadsworth, Gerald B., doing business as Home Makers Educational Service, Freeport, N. Y. Cocoa, bread and pastry flour, canned fish, etc. 250,253; Dec. 4; Serial No. 248,942; published Apr. 10, 1928. Class 46.
Weinberger Drug Company, The, doing business as The Kotar Chemical Company, Cleveland, Ohio. Nerve tonic, blood purifier, etc. 250,195; Dec. 4; Serial No. 266,231; published Sept. 18, 1928. Class 6.
Weissbrod, Emil, and Sons Incorporated, Greenfield, Mass. Pocketbooks and cardcases. 72,549; renewed Feb. 2, 1929.
Weller Brothers, Shamokin, Pa. Laxative gum. 250,356; Dec. 4; Serial No. 269,702; published Sept. 18, 1928. Class 6.
Whitcomb, Walter D., Portland, Oreg. Mechanical graphic charts. 250,295; Dec. 4; Serial No. 270,658; published Sept. 18, 1928. Class 26.
White Luggage Co., Inc., New York, N. Y. Coat hangers. 250,306; Dec. 4; Serial No. 268,523; published Sept. 11, 1928. Class 50.
Whiting-Adams Company, Boston, Mass. Brushes. 250,340; Dec. 4; Serial No. 270,404; published Sept. 18, 1928. Class 29.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Seeds. 250,234–5; Dec. 4; Serial Nos. 267,881–2; published Aug. 14, 1928. Class 1.
Wilfred Laboratories, Inc., New York, N. Y. Toilet preparations. 250,277; Dec. 4; Serial No. 220,380; published Apr. 6, 1928. Class 6.
Wilhelm, A., Company, The, Reading, Pa. Painters' materials. 71,367; renewed Nov. 24, 1928.
Wilhelm, A., Company, The, Reading, Pa. Paints, enamels, stains, and colors. 71,540; renewed Dec. 1, 1928.
Wilhelm, A., Company, The, Reading, Pa. Painters' materials. 71,794; renewed Dec. 15, 1928.
Williams, R. C., & Co., assignor to R. C. Williams & Co. Inc., New York, N. Y. Blended coffee. 71,418; renewed Nov. 24, 1928.
Willsie, Henry E., doing business as Manuscura, Cleveland, Ohio. Manicure powder. 250,232; Dec. 4; Serial No. 267,914; published Sept. 11, 1928. Class 6.
Wilson-Imperial Company, Newark, N. J. Material for redyeing and renovating plush. 250,335; Dec. 4; Serial No. 263,296; published Sept. 18, 1928. Class 6.
Worcester Knitting Co., The, Worcester, Mass. Bathing suits. 250,352; Dec. 4; Serial No. 269,754; published Sept. 18, 1928. Class 39.
Worthy Manufacturing Company, Chicago, Ill. Shirts. 250,210–12; Dec. 4; Serial Nos. 268,950–2; published Sept. 18, 1928. Class 39.
Worthy Manufacturing Company, Chicago, Ill. Shirts. 250,213–15; Dec. 4; Serial Nos. 268,946–8; published Sept. 18, 1928. Class 39.
Worthy Manufacturing Company, Chicago, Ill. Men's and boys' negligee and work shirts. 250,216; Dec. 4; Serial No. 268,945; published Sept. 18, 1928. Class 39.
Young Radiator Company, Racine, Wis. Vehicle radiators. 250,372; Dec. 4. Class 19.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Aktiengesellschaft Chocolat Tobler, Bern, Switzerland. Tobler Die Vitaminreiche Schweizer Chocolade. For Chocolate. 35,021; Dec. 4.
Brackett, Robert A., Glendale, Calif. R—164. For Medicine. 35,022; Dec. 4.
Buchanan, Carson P., Kemp, Tex. Shu-Shine. For Shoe Polish. 35,023; Dec. 4.
Carasso Supply Co., Inc., New York, N. Y. Starlite Copper Dip. For Metal Cleanser and Restorer. 35,024; Dec. 4.
Carasso Supply Co., Inc., New York, N. Y. Starlite Silver Dip. For Metal Cleanser and Restorer. 35,025; Dec. 4.
Carasso Supply Co., Inc., New York, N. Y. Starlite Silver Gloss. For Metal Cleanser and Restorer. 35,026; Dec. 4.
Chesman, B., & Son Inc., New York, N. Y. Beau-Geste. For Cheese. 35,027; Dec. 4.
Clawson & Wilson Company, Buffalo, N. Y. "Aviator" Flannel Shirts. For Men's Flannel Shirts Made of Part Wool and Wool Fabrics. 35,028; Dec. 4.
Earl Fruit Company, Wenatchee, Wash. Oh Yes We Grow The Best Apples (Yellow Label). For Fresh Apples. 35,029; Dec. 4.
Earl Fruit Company, Wenatchee, Wash. Oh Yes We Grow The Best Apples. (Red Label). For Fresh Apples. 35,030; Dec. 4.
Earl Fruit Company, Wenatchee, Wash. Oh Yes We Grow The Best Apples (Blue Label). For Fresh Apples. 35,031; Dec. 4.
Feeders Supply and Manufacturing Company, Kansas City, Mo. Super-Mash—Starts Them—Grows Them—Makes Them Lay. For Poultry Feed. 35,032; Dec. 4.
Gill, James G., Co., Inc., The, Norfolk, Va. Gill's Hotel Special. For Coffee and Chicory. 35,033; Dec. 4.
Grey Iron Casting Company, Mount Joy, Pa. "Star Jax" on One Side and "Rules" on the Other Side. For Jack Sets. 35,034; Dec. 4.
Guillon, Dr. W. T., Colorado Springs, Colo. Stringol. For a Prescription in Liquid Form, Antiseptic and Astringent in Nature. 35,035; Dec. 4.
Independent Milwaukee Brewery, Milwaukee, Wis. Independent Malt Extract Bohemian Style. For Malt Syrup. 35,036; Dec. 4.
Kane, Maxwell, Philadelphia, Pa. Kane's Best. For Malt Syrup and Malt Extract. 35,037; Dec. 4.
Kirshner, Nathanial M., Los Angeles, Calif. Kirshner's Jewel Bright. For Jewelry-Cleaning Outfits or Kits. 35,038; Dec. 4.
Kramer & Barcus, Leesburg, Fla. Rastus. For Watermelons. 35,039; Dec. 4.
Lucky Life Distributing Company, Philadelphia, Pa. Lucky Life. For Malt Syrup. 35,040; Dec. 4.
Malt-Zyme. (See Walsh, Willard A.)
Mme. Ludays, Chicago, Ill. Vel-Vette. For a Preparation for Whitening the Skin. 35,041; Dec. 4.
Pacific Coast Biscuit Company, doing business as Pacific Coast Candy Co., Seattle, Wash. Moritz Sweets. For Candy. 35,042; Dec. 4.
Palmer Corporation, The, Medford, Oreg., and Chicago, Ill. P. For Pears. 35,043; Dec. 4.
Rochester Packing Co., Inc., Rochester, N. Y. Arpeako Pure Pork Sausage In Links. For Pure Pork Sausage in Links. 35,044; Dec. 4.
Sanford, Stephen, & Sons, Inc., Amsterdam, N. Y. Persharak. For Rugs and Carpets of a Tapestry Weave. 35,045; Dec. 4.
Surtea Incorporated, Chicago, Ill. Surtea The Drinkfood. For Yerba-Mate. 35,046; Dec. 4.
Walsh, Willard A., doing business as Malt-Zyme, Long Island City, N. Y. Fruit Flavored Castor Oil. For Castor Oil. 35,047; Dec. 4.
Walsh, Williard A., doing business as Malt-Zyme, Long Island City, N. Y. Fruit Flavored Cod Liver Oil. For Cod-Liver Oil. 35,048; Dec. 4.
Williamson Candy Co., Chicago, Ill. Big Hearted Al. For Candy. 35,049; Dec. 4.
Wren, Jenny, Co., The, Lawrence, Kans. Kiln Dried Cream Corn Meal. For Corn Meal. 35,050; Dec. 4.

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. Do You Know Elizabeth Arden Herself. For Venetian Toilet Preparations. 11,358; Dec. 4.
Ecker, Will J., jr., St. Louis, Mo. Orange Blossom. For Stationery. 11,359; Dec. 4.
Goodyear Tire & Rubber Company, Inc., The, Akron, Ohio. Good—Wingfoot—Year The Greatest Name in Rubber. For Rubber. 11,360; Dec. 4.
Inecto, Inc., New York, N. Y. Have You One Gray Hair? And Does it Frighten You? For Inecto Rapid Notox. 11,361; Dec. 4.



Meloney, Ulmer L., Matawan, N. J. Jersey White Giants. For Live Poultry. 11,362; Dec. 4.
M. J. B. Company, San Francisco, Calif. Each Evening the End of a Perfect Day. For Coffee. 11,363; Dec. 4.
Nashua Manufacturing Company, Nashua, N. H. The Millions of Tiny Fibres That Seal Body Warmth In. For Blankets. 11,364; Dec. 4.
Nashua Manufacturing Company, Nashua, N. H. All Aboard For The Land of Nod. For Blankets. 11,365; Dec. 4.
North Side Sash & Door Co., Chicago, Ill. Millwork. For Millwork. 11,366; Dec. 4.
S. K. F. Industries, Inc., New York, N. Y. These Leading Aircraft Manufacturers. For Bearings. 11,367; Dec. 4.
Standard Unbreakable Watch Crystals Inc., New York, N. Y. Standard Unbreakable Watch Crystals, Inc., New York, N. Y., U. S. A. For Unbreakable Watch Crystals and Machine to Insert These Unbreakable Crystals. 11,368; Dec. 4.
Sylvania Products Co., Emporium, Pa. Sylvania Radio Tubes. For Radiotubes. 11,369; Dec. 4.
Vick Chemical Company, Philadelphia, Pa. For Your Colds Too. For Remedies for the Relief of Colds. 11,370; Dec. 4.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbott-Armstrong-Abbott Inc., Auburn, Me. Shoes. 271,416; Dec. 4. Class 39.
Addressing Typewriter Stencil Corp., New York, N. Y. Typewriter stencils. 273,790; Dec. 4. Class 37.
Agfa Ansco Corporation, Binghamton, N. Y. Sensitized photographic paper. 264,407; Dec. 4. Class 26.
Agfa Ansco Corporation, Binghamton, N. Y. Sensitized photographic paper. 264,410; Dec. 4. Class 26.
Aktiengesellschaft Chocolat Tobler, Bern, Switzerland. Cocoa, chocolate, chocolate candy, etc. 270,157; Dec. 4. Class 46.
Allen & Hanburys, Limited, London, England. Medicinal food. 271,466; Dec. 4. Class 6.
American Beet Sugar Company, Denver, Colo. Sugar. 273,433; Dec. 4. Class 46.
American Disinfecting Company, Sedalia, Mo. Liquid wax preparation. 273,391; Dec. 4. Class 16.
American Laundry Machinery Company, Norwood, Cincinnati, Ohio. Laundry washing machines. 272,845; Dec. 4. Class 24.
American Leather Finish Company, Boston, Mass. Polishes and cleaners. 268,414; Dec. 4. Class 4.
Arco Company, The, Cleveland, Ohio. Lacquers. 272,745; Dec. 4. Class 16.
Arnold, Constable & Co., Inc., New York, N. Y. Coats, suits, overcoats, etc. 270,454; Dec. 4. Class 39.
Art Neckwear Company. (See Schuman, Milton.)
Artloom Corporation, Philadelphia, Pa. Textile rugs. 273,756; Dec. 4. Class 42.
Associated Pharmacists of Massachusetts, Inc., Salem, Mass. Epsom-salts compound. 273,623; Dec. 4. Class 6.
Babcock Manufacturing Company, The, Leonardsville, N. Y. Harrows. 264,861–2; Dec. 4. Class 23.
Bachrach-Feld Co., The, doing business as Mascot Sales Co., Cincinnati, Ohio. Malt syrup. 273,680; Dec. 4. Class 46.
Baker Paper Company, Oshkosh, Wis. Dry stencils for mimeographic machines. 273,222; Dec. 4. Class 37.
Basmajian, Mihran, New York, N. Y. Condensed milk. 266,120; Dec. 4. Class 46.
Behr-Manning Corporation, Green Island, Troy, N. Y. Abrasive papers and cloths. 272,459; Dec. 4. Class 4.
Behr-Manning Corporation, Green Island, Troy, N. Y. Abrasive papers and cloths. 272,465; Dec. 4. Class 4.
Beltman, Floyd R., doing business as Bettybud Food Products Company, Indianapolis, Ind. Jelly, jam, mincemeat, relishes, etc. 272,535; Dec. 4. Class 46.
Bennett Day Importing Company, Inc., New York, N. Y. Fresh nuts in the shell and shelled. 273,282; Dec. 4. Class 46.
Bergen Building Clock Company, Ridgefield Park, N. J. Concrete building blocks. 248,547; Dec. 4. Class 12.
Bernstein, M. M., & Sons, New York, N. Y. Ladies' and misses' underwear. 250,353; Dec. 4. Class 39.
Bessire & Company, Indianapolis, Ind. Tools and machinery. 171,983; Dec. 4. Class 23.
Bettybud Food Products Company. (See Beltman, Floyd R.)
Birchade Co. (See Schaffer, Oscar C.)
Birmingham Tank Company, Birmingham, Ala. Septic tanks. 273,760; Dec. 4. Class 13.
Blackhawk Extract Co. (See Henle, Walter G.)
Blass, F. M. Eugene, doing business as E. Am. Ass'n for Oxygen-Therapy, New York, N. Y. Preventative of all complaints. 256,512; Dec. 4. Class 6.
Blomquist, Luther, Gowrie, Iowa. Detachable brake lining. 266,186; Dec. 4. Class 35.
Blossom Products, Inc., New York, N. Y. Bloomers, union suits, pajamas, etc. 247,258; Dec. 4. Class 39.
Blue Label Products Co., San Francisco, Calif. Malt syrup. 249,262; Dec. 4. Class 46.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 274,251–3; Dec. 4. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 274,255; Dec. 4. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 274,257; Dec. 4. Class 42.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabrics in the piece. 274,300; Dec. 4. Class 42.
Bonwit Lennon & Company, Inc., Baltimore, Md. Perfumery. 274,144; Dec. 4. Class 6.
Borzone, Marengo & Co., Buenos Aires, Argentina. Raw or uncut marble. 267,337; Dec. 4. Class 1.
Borzone, Marengo & Co., Buenos Aires, Argentina. Cut and dressed marble, etc. 267,339; Dec. 4. Class 12.
Boston Food Products Company, Brighton, Mass. Baked beans, brown bread, corned beef, etc. 270,765; Dec. 4. Class 46.
Boudreault, Philippe N., doing business as Dr. Lambert Medical Co., Montreal, Canada, and Lowell, Mass. Cough syrup. 271,916; Dec. 4. Class 6.
Brace, Oliver, doing business as Sandusky Nut Company, Sandusky, Ohio. Drill chucks. 270,821; Dec. 4. Class 23.
Brooks, Theo, doing business as Brooks Drug Store, Denton, Tex. Medicine. 272,928; Dec. 4. Class 6.
Brosius, Edward E., Seattle, Wash. Cigarette holders. 270,219; Dec. 4. Class 8.
Brown, C. D., & Co., Inc., Rochester, N. Y. Finished upper-leather calfskins. 271,956; Dec. 4. Class 1.
Brown, Theresa H., executrix of the Estate of L. V. W. Brown, deceased, Riverside, Calif. Fresh citrus fruits. 255,948–9; Dec. 4. Class 46.
Bruguier, Euvaldo M., doing business as Bruguier & Trujillo, Seville, Spain. Olive oil. 206,108; Dec. 4. Class 46.
California Perfume Co. Inc., New York, N. Y. Perfumes, face and toilet powder, etc. 272,135; Dec. 4. Class 6.
California Wine Products Company. (See Souther, Joseph W.)
Carbide & Carbon Chemicals Corporation, New York, N. Y. Paints and paint enamels, varnishes, etc. 269,180; Dec. 4. Class 16.
Catalina Hats, Inc., San Francisco, Calif. Ladies' and misses' hats. 251,320; Dec. 4. Class 39.
Chatham Hat Co. Inc., New York, N. Y. Hats. 273,183; Dec. 4. Class 39.
Chess, Meyer W., doing business as Meyer W. Chess Brokerage Co., Pacoima and San Fernando, Calif. Fresh citrus fruits. 273,578; Dec. 4. Class 46.
Chesterfield Dry Ginger Ale Co. (See Mulvihill-Goodwine Company.)
Clayton & Lambert Manufacturing Co., Detroit, Mich. Blowtorches. 272,256; Dec. 4. Class 34.
Cleveland Pneumatic Tool Company, The, Cleveland, Ohio. Air springs for vehicles. 270,914; Dec. 4. Class 19.
Click, Not Inc. (See House, Leslie A.)
Climax Cleaner Manufacturing Company, The, Cleveland, Ohio. Cleaner for wall paper, etc. 272,864; Dec. 4. Class 4.
Cole, John N., doing business as The Soovain Co., Los Angeles, Calif. Preparation for the treatment and relief of headache, etc. 274,436; Dec. 4. Class 6.
Collapsule Company, Inc., New York, N. Y. Medicinal and pharmaceutical preparations. 274,382; Dec. 4. Class 6.
Collins-Hencke Candy Co., San Francisco, Calif. Marshmallows. 268,213; Dec. 4. Class 46.
Colonial Cabinet Manufacturing Co. Inc., Ozone Park, N. Y. Tables for domestic use. 273,362; Dec. 4. Class 32.
Coluzzi, Louis, doing business as Sunkist Malt Co., Chicago, Ill. Malt extract and food-flavoring extracts. 273,803; Dec. 4. Class 46.
Corn Products Refining Company, New York, N. Y. Starch for laundry and bathing purposes. 272,257; Dec. 4. Class 6.
Craven, Helen, Newark, N. J. Salad dressing. 273,685; Dec. 4. Class 46.
Crawley, Vivian W., Chicago, Ill. Prophylactic rubber articles. 272,702; Dec. 4. Class 44.
"Cristallo" A.-G., Thusis, Switzerland. Preparation for stimulating metabolism. 271,296; Dec. 4. Class 6.
Curran Laboratories, Inc., New York, N. Y. Water-waving lotion, brilliantine, cold cream, etc. 273,101; Dec. 4. Class 6.
David & Blum, Inc., New York, N. Y. Leather gloves. 224,323; Dec. 4. Class 39.
Delbon, Frank G., Brooklyn, N. Y. Shoes. 269,773; Dec. 4. Class 39.
Doehler Die-Casting Co., New York, N. Y. Die-casting metal and die castings. 269,448; Dec. 4. Class 14.

Drey, Simpson & Company Limited, South Reddish, Stockport, and Manchester, England. Camel-hair fabric. 267,646; Dec. 4. Class 42.
Duffield Motor Co., Des Moines, Iowa. Automobiles, motor-driven trucks, etc. 269,102; Dec. 4. Class 19.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dynamite. 274,385; Dec. 4. Class 9.
E. Am. Ass'n for Oxygen Therapy. (See Blass, F. M. Eugene.)
Eastern Sales Company, West Chester, Pa. Milk-cooling cabinets. 273,913; Dec. 4. Class 31.
Emory, Walter R., Los Angeles, Calif. Therapeutic appliances. 271,927; Dec. 4. Class 44.
Eppens, Smith Company, New York, N. Y. Tea balls. 263,755; Dec. 4. Class 46.
Experimenter Publishing Company, Inc., New York, N. Y. Magazine section. 273,456; Dec. 4. Class 38.
Fawcett Publications, Inc., Robbinsdale, Minn. Magazine. 273,812–13; Dec. 4. Class 38.
Fischer, M. Jerome, doing business as Raylax Raisin Company, Tulsa, Okla. Medicated raisins. 271,546; Dec. 4. Class 6.
Fischer Soap & Oil Company, The, Cincinnati, Ohio. Soap. 273,865; Dec. 4. Class 4.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,498–501; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,503–4; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,507–10; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,512–15; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,517–18; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,521–36; Dec. 4. Class 42.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,538–40; Dec. 4. Class 42.
Fortuna Products Co., Brooklyn, N. Y. Paper, cardboard, and metal containers. 269,893; Dec. 4. Class 2.
Fraicheur Products. (See Kraft, Marcel.)
Friends Corporation, Chambersburg, Pa. Sanitary napkins. 274,387; Dec. 4. Class 44.
Frier Steel Company, St. Louis, Mo. Toy houses and garages. 272,398; Dec. 4. Class 22.
Gerber Bros., Brooklyn, N. Y. Canned fruits, canned vegetables, canned fish, etc. 269,051; Dec. 4. Class 46.
Golinko, Phil, Corporation, New York, N. Y. Dresses and skirts. 272,486; Dec. 4. Class 39.
Good Value Hat & Cap Co., Inc., New York, N. Y. Hats and caps. 272,400; Dec. 4. Class 39.
Gottlob, Harry R., Maplewood, Mo. Advertising billboards. 256,928; Dec. 4. Class 50.
Graves, Rolla W., Longmeadow, Mass. Suppositories, ointment, etc. 272,554; Dec. 4. Class 6.
Grundy's, Madame, Hollywood U Reduce Creme Co., Sacramento, Calif. Reducing cream. 273,232; Dec. 4. Class 6.
Guajardo, L. Alberto, San Antonio, Tex. Antidiabetic tea. 271,490; Dec. 4. Class 6.
H. Q. Z. Company, San Francisco, Calif. Hair and scalp oil wash. 272,556; Dec. 4. Class 6.
Ha-Ber-San Manufacturing Corporation, New York, N. Y. Shirts and pajamas. 273,699; Dec. 4. Class 39.
Halestrap, Sigrid C., Buffalo, N. Y. Cleansing cream, tissue cream, muscle oil, etc. 271,756; Dec. 4. Class 6.
Hallam Corporation, The, Pittsburgh, Pa. Chemical heating pad. 273,368; Dec. 4. Class 44.
Hamilton-Wade Company, Brockton, Mass. Retaining devices for pumps, slippers, etc. 270,795; Dec. 4. Class 39.
Hanan, Herbert W., doing business as Hanan & Son, Brooklyn, N. Y. Hosiery. 271,251; Dec. 4. Class 39.
Handmacher-Michael Company, Chicago, Ill. Coats. 273,547; Dec. 4. Class 39.
Hardeman-King Company, Oklahoma City, Okla. Insecticides. 272,333; Dec. 4. Class 6.
Harvard Pickle Works, Inc., Cambridge, Mass. Pickles, onion relish, chowchow, etc. 255,003; Dec. 4. Class 46.
Harvey, William J., Dallas, Tex. Medicinal preparation. 273,399; Dec. 4. Class 6.
Havens, Horace E., doing business as Sunnylife Products Sales Agency, Chicago, Ill. Tomato juice. 273,594; Dec. 4. Class 46.
Henle, Walter G., doing business as Blackhawk Extract Co., Davenport, Iowa. Malt extract. 273,817; Dec. 4. Class 46.
Hires, Charles E., Company, The, Philadelphia, Pa. Beverage. 264,643; Dec. 4. Class 45.
Hirschl & Bendheim, Washington, Mo. Tobacco-smoking pipes. 272,402; Dec. 4. Class 8.
House, Leslie A., doing business as Click, Not Inc., Elmhurst, Ill. Medicinal preparation. 272,030; Dec. 4. Class 6.
Hubbard, J. Marshall, doing business as J. Hubbard & Co. Tablets for the throat. 274,157; Dec. 4. Class 6.
Hubbell, James L., Cleveland, Ohio. Printed advertising matter. 248,178; Dec. 4. Class 38.
Hughes, Albert F., doing business as Hum-Ding-Er Mfg. Co., Cleveland, Ohio. Polish and cleaner. 273,371; Dec. 4. Class 16.
Hum-Ding-Er Mfg. Co. (See Hughes, Albert F.)
Hump Hairpin Mfg. Co., The, Chicago, Ill. Hairpins. 266,665; Dec. 4. Class 40.
Illinois Cosmetics Co., Chicago, Ill. Face powder and cold cream. 249,971; Dec. 4. Class 6.
Importers & Roasters Ass'n, Inc., New York, N. Y. Malt, malt-syrup extracts, etc. 269,286; Dec. 4. Class 46.
Ingram, Frederick F., Company, Detroit, Mich. Shaving cream. 272,890; Dec. 4. Class 4.
International Ginger Ales Corporation, Boston, Mass. Ginger ales. 274,392; Dec. 4. Class 45.
Johnson, Orton A., doing business as The Ortono Co., Washington, D. C. Analgesic capsule and a nose-drop solution. 271,811; Dec. 4. Class 6.
Kahn Tailoring Co., Indianapolis, Ind. Coats, vests, trousers, etc. 273,498; Dec. 4. Class 39.
Katzinger, Edward, Company, Chicago, Ill. Base-metal pie plates, cake pans, etc. 270,119; Dec. 4. Class 13.
Katzinger, Edward, Company, Chicago, Ill. Base-metal bowls, pans, pots, etc. 271,858; Dec. 4. Class 13.
Kawamoto, Masaichi, Honolulu, Hawaii. Toothbrushes. 267,586; Dec. 4. Class 29.
Kiddy Kage Company, Portland, Oreg. Baby pens or corrals. 272,720; Dec. 4. Class 32.
Kingston, H. W., doing business as H. W. Kingston Co., St. Paul, Minn. Washing powder. 271,760; Dec. 4. Class 4.
Knickerbocher Silk Co., New York, N. Y. Maurette crepe. 266,818; Dec. 4. Class 42.
Knott & Garllus, Detroit, Mich. Massaging machine. 270,595; Dec. 4. Class 44.
Kops Bros. Inc., New York, N. Y. Textile fabrics. 264,759; Dec. 4. Class 42.
Kraft, Marcel, doing business as Marcel Laboratories and Fraicheur Products, San Francisco, Calif. Shampoo. 270,848; Dec. 4. Class 6.
Kramer, Samuel D., doing business as Kramer Novelty Co., New York, N. Y. Pacifiers. 273,550; Dec. 4. Class 44.
Krasne, Abraham, doing business as A. Krasne, New York, N. Y. Tomatoes, sauerkraut, chowchow, etc. 271,443; Dec. 4. Class 46.
Kreis, Louis A., doing business as The Lowila Laboratories, Buffalo, N. Y. Medicinal preparations. 272,664; Dec. 4. Class 6.
Kuhn Remedy Company, Chicago, Ill. Medicine. 273,650; Dec. 4. Class 6.
Lambert, Dr., Medical Company. (See Boureault, Philippe N.)
Lamberty, Nicholas F., Chicago, Ill. Mechanical drafting board. 269,299; Dec. 4. Class 26.
Lander-White Co., Oakland, Calif. Preparation applied on strops for honing. 267,264; Dec. 4. Class 4.
Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Preparations for the treatment of chronic rheumatism, etc. 273,193; Dec. 4. Class 6.
Lessinger, Morris, doing business as Milo Chemical Co., Brooklyn, N. Y. Antiseptic and prophylactic vaginal suppositories. 272,991; Dec. 4. Class 6.
Lilly, Eli, and Company, Indianapolis, Ind. Medicinal or pharmaceutical preparation. 274,350; Dec. 4. Class 6.
Linenweaver-Stroup Soap Company, The, Cleveland, Ohio. Automobile laundry apparatus. 272,767; Dec. 4. Class 23.
Lord & Taylor, New York, N. Y. Umbrellas and canes. 273,237; Dec. 4. Class 41.
Lowila Laboratories, The. (See Kreis, Louis A.)
Mable Todd & Co., New York, N. Y. Fountain pens and mechanical pencils. 273,195; Dec. 4. Class 37.
Madison, George A., St. Paul, Minn. Mouth tablets, mouth-wash liquid, etc. 271,611; Dec. 4. Class 6.
Magazine Publishers, Inc., New York, N. Y. Magazine. 272,946; Dec. 4. Class 38.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 274,458–60; Dec. 4. Class 42.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 274,462–5; Dec. 4. Class 42.
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 274,566–7; Dec. 4. Class 42.
Marcel Laboratories. (See Kraft, Marcel.)
Marin, Manuel, & Co., Mayaguez, P. R. General tonic. 273,467; Dec. 4. Class 6.
Marotta & Cella, New York, N. Y. Olive oil, canned tomatoes, etc. 266,676; Dec. 4. Class 46.
Mascot Sales Co. (See Rachrach-Feld Co., The.)
Mason, Arthur R., San Francisco, Calif. Indicating and recording mechanism. 270,038; Dec. 4. Class 26.
Matthews, W. N., Corporation, St. Louis, Mo. Motor and hand propelled trucks. 256,354; Dec. 4. Class 19.
Matthews, W. N., Corporation, St. Louis, Mo. Air gauges. 256,355; Dec. 4. Class 26.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses. 271,057; Dec. 4. Class 46.
Mayer, S. M., jr., doing business as Mayer Sugar & Molasses Co., New Orleans, La. Molasses and cane syrup. 271,062; Dec. 4. Class 46.
Mercey Company, San Francisco, Calif. Natural water for the treatment of women's ailments. 272,569; Dec. 4. Class 45.
Merrell, Wm. S., Company, The, Cincinnati, Ohio. Cough preparation. 273,605; Dec. 4. Class 6.
Midwest Chemical Products, Inc., Milwaukee, Wis. Scientific purge and preservative for interior of boilers. 273,472; Dec. 4. Class 6.



Miller Motors Specialties, Inc., Dallas, Tex. Tire patches. 271,138; Dec. 4. Class 35.
Milo Chemical Co. (See Lessinger, Morris.)
Milqo Limited, doing business as Vi-Tone Company, Limited, Hamilton, Ontario, Canada. Tonic drink. 274,167; Dec. 4. Class 46.
Minkus, Morris, New York, N. Y. Dictionaries. 267,374; Dec. 4. Class 38.
Möystad Möller & Co. A/S., Oslo, Norway. Cod-liver oil. 271,450; Dec. 4. Class 6.
Mulvihill-Goodwine Company, doing business as Chesterfield Dry Ginger Ale Co., Chicago, Ill. Beverages and syrups for making same, ginger ale, etc. 267,781; Dec. 4. Class 45.
N. J. Laboratory Supply Co., Newark, N. J. Analgesic salves. 273,663; Dec. 4. Class 6.
New York Sailmaking Corp., Brooklyn, N. Y. Waterproof canvas. 271,193; Dec. 4. Class 50.
North-Western Packing Co., Chicago, Ill. Sausage. 265,679; Dec. 4. Class 46.
O'Brien, Peter J., New York, N. Y. Paint and varnish brushes. 270,345; Dec. 4. Class 29.
Old New England Craftsmen, Inc., Newburyport, Mass. Silverware. 266,264; Dec. 4. Class 28.
Ortono Co., The. (See Johnson, Orton A.)
Parke, Davis & Co., Detroit, Mich. Diuretics. 273,511; Dec. 4. Class 6.
Patterson, Carey, Evanston, Ill. Preparation for treating the hair and scalp. 261,017; Dec. 4. Class 6.
Payson Varnish Co., The, New York, N. Y. Paste, semi-paste, paints, etc. 273,113; Dec. 4. Class 16.
Peerless Motor Car Corporation, Cleveland, Ohio. Automobiles. 269,856; Dec. 4. Class 19.
Peggy Ann Company, The. (See Quinby, Edmund B.)
Penn Leather Company, Philadelphia, Pa. Presses for cementing soles to shoes. 248,054; Dec. 4. Class 23.
Phillips-Baker Rubber Co., Providence, R. I. Rubber boots and shoes. 256,208–9; Dec. 4. Class 39.
Phonograph Publications Co. Inc., New York, N. Y. Trade publication. 273,158; Dec. 4. Class 38.
Pinaud, Incorporated, New York, N. Y. Toilet vinegar, sachet, etc. 240,002; Dec. 4. Class 6.
Pi-Nette Company, Benton, Ill. Frozen fruit confections. 272,303; Dec. 4. Class 46.
Piver, L. T., Inc., Wilmington, Del., and New York, N. Y. Perfume extracts. 273,072; Dec. 4. Class 6.
Pizzo Laraja, New York, N. Y. Olive oil. 235,523; Dec. 4. Class 46.
Platex Laboratories, Inc., Chattanooga, Tenn. Pads for cushioning false teeth. 272,427; Dec. 4. Class 44.
Pohlmeyer, Inc., Wallington, N. J. Black and colored drawing inks. 260,526; Dec. 4. Class 11.
Poly, Angel, Brookline, Mass. Face Powder, rogue, lipstick, etc. 272,896; Dec. 4. Class 6.
Poster Parts Company, Terre Haute, Ind. Cotton fabric in the piece. 263,668; Dec. 4. Class 42.
Providence Malt Company, Providence, R. I. Malt syrup. 272,954; Dec. 4. Class 46.
Providence Malt Company, Providence, R. I. Malt syrup. 272,956–7; Dec. 4. Class 46.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon turpentine substitute. 271,989; Dec. 4. Class 16.
Pyrol Co., The. (See Scott, George B.)
Quinby, Edmund B., doing business as The Peggy Ann Company, Tampa, Fla. Coffee, mayonnaise, and mayonnaise relish. 273,935; Dec. 4. Class 46.
Ra-Dac Company, The. (See Tanner, Claude C.)
Raritan Rubber, Inc., New Brunswick, N. J. Nonmetallic tires. 273,006–7; Dec. 4. Class 35.
Raylax Raisin Company. (See Fischer, M. Jerome.)
Raymond's Inc., Boston, Mass. Varnishes, prepared shellac, etc. 272,429; Dec. 4. Class 16.
Reese Metal Weather Strip Company, Minneapolis, Minn. Weather strip. 272,056; Dec. 4. Class 12.
Rhoads, J. E., & Sons, Philadelphia, Pa. Leather belting 273,013; Dec. 4. Class 35.
Rigney, William A., Newark, N. J. Medicinal compounds 273,015; Dec. 4. Class 6.
Rogers, Wm. A., Limited, Toronto, Canada, and Niagara Falls, N. Y. Polish. 271,568; Dec. 4. Class 4.
Roseville Growers Selected Vineyards, doing business as Roseville Grape Growers, Roseville, Calif. Fresh grapes. 273,345; Dec. 4. Class 46.
Rothstein, Herbert, Inc., New York, N. Y. Coats, suits, and cloaks. 269,259; Dec. 4. Class 39.
Roxana Petroleum Corporation, St. Louis, Mo. Gas. 273,515; Dec. 4. Class 6.
Sanders Mfg. Co., Nashville, Tenn. Vending machines. 269,553; Dec. 4. Class 23.
Sanders Mfg. Co., Nashville, Tenn. Ball chewing gum. 269,554; Dec. 4. Class 46.
Sandusky Nut Company. (See Brace, Oliver.)
Sanford, Stephen, & Sons, Inc., Amsterdam, N. Y. Rugs and carpets of a tapestry weave. 274,241; Dec. 4. Class 42.
Sanger, Paul, Tulsa, Okla. Preparation used in the relief of hay fever. 271,410; Dec. 4. Class 6.
Schaffer, Oscar C., doing business as Birchade Co., Bethlehem, Pa. Syrup containing birch extract. 272,514; Dec. 4. Class 45.
Schuman, Milton, doing business as Art Neckwear Company, Philadelphia, Pa. Ties and mufflers. 259,427; Dec. 4. Class 39.
Schwartz, Joseph A., doing business as Schwartz Chemical Company, Washington, D. C. Salve. 274,238; Dec. 4. Class 6.
Scott, George B., doing business as The Pyrol Co., New York, N. Y. Hair and scalp preparations. 274,176; Dec. 4. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Leather. 272,435; Dec. 4. Class 1.
Sheridan, John, Chicago, Ill. Medicinal compound. 258,850; Dec. 4. Class 6.
Shields & Wyle, Inc., Jersey City, N. J. Hand soap and for a cleanser. 272,357; Dec. 4. Class 4.
Skelly Oil Company, Tulsa, Okla. Liquefied petroleum gas, compressed gas, etc. 271,319; Dec. 4. Class 6.
Smith, Thomas E., doing business as Virginia Maid Hair Dressing Co., Portsmouth, Va. Hair-straightening preparation. 274,363; Dec. 4. Class 6.
Societe Anonyme Bertimay, Paris, France. Face powders, face creams, rouges, etc. 270,980; Dec. 4. Class 6.
Societe Industrielle des Produits Melasses, Marseille, France. Flour made from grains and beans. 270,892; Dec. 4. Class 6.
Société Rapidase, Seclin, France. Artificial bate for leathers and skin. 271,150; Dec. 4. Class 6.
Soovain Co., The. (See Cole, John N.)
Sopax Products Company, East Monongahela, Pa. Cleansing compound. 272,774; Dec. 4. Class 4.
Souther, Joseph W., doing business as California Wine Products Company, San Francisco, Calif. Port and sherry wine tonics. 269,433; Dec. 4. Class 47.
Spicer and Company, Glendale, Calif. Ointment. 274,407; Dec. 4. Class 6.
Spicer and Company, Glendale, Calif. Alterative product. 274,408; Dec. 4. Class 6.
Standard Materials Co., Bloomfield, N. J. Floor beams, studs, rafters, etc. 271,013; Dec. 4. Class 12.
Stein, S., & Co., New York, N. Y. Woolen goods. 274,410; Dec. 4. Class 42.
Steril Manufacturing Company, Omaha, Nebr. Embalming fluid. 272,909; Dec. 4. Class 6.
Stifel, J. L., & Sons, Wheeling, W. Va. Cotton piece goods. 274,293; Dec. 4. Class 42.
Stuver Bros. Company, The, Kenmore, Ohio. Coal. 272,679; Dec. 4. Class 1.
Sugarman, Lew, doing business as Sugarman Hat Company, San Francisco, Calif. Hats. 273,211; Dec. 4. Class 39.
Summers, Samuel L., Whitemarsh Township, Pa. Medicinal compound. 272,964; Dec. 4. Class 6.
Sunkist Malt Co. (See Coluzzi, Louis.)
Sunnylife Products Sales Agency. (See Havens, Horace E.)
Tait Paper and Color Industries, Inc., The, Glens Falls, N. Y. Wall paper. 273,481; Dec. 4. Class 37.
Tanner, Claude C., doing business as The Ra-Dac Company, St. Joseph, Mo. Medicinal preparation. 269,373; Dec. 4. Class 6.
Taylor Instrument Companies, Rochester, N. Y. Thermometers. 273,213; Dec. 4. Class 26.
Thyrole Chemical Co. (See Weinstock, Isador R.)
Turner, Jennie W., Los Angeles, Calif. Valves. 273,031; Dec. 4. Class 13.
Universal Credit Corporation, Detroit, Mich. Letterheads and blank forms. 272,086; Dec. 4. Class 38.
Vattenborg Systems, Inc., Seattle, Wash. Colon irrigators. 252,002; Dec. 4. Class 44.
Vermont Maple Syrup Co. Inc., Burlington, Vt. Syrups. 272,781; Dec. 4. Class 46.
Virginia Jellico Coal Company, Inc., Grays Knob, Ky., and Clairfield, Tenn. Coal. 272,447; Dec. 4. Class 1.
Virginia Maid Hair Dressing Co. (See Smith, Thomas E.)
Vi-Tone Company, Limited. (See Milqo Limited.)
Wagner, Robert C., doing business as Wagner Material & Coal Company, Champaign and Urbana, Ill. Coal. 265,741; Dec. 4. Class 1.
Weinstock, Isador R., doing business as Thyrole Chemical Co., Philadelphia, Pa. Preparation to aid in the elimination of excessive fat. 274,142; Dec. 4. Class 6.
White, George S., Los Angeles, Calif. Light and heat ray filters. 273,215; Dec. 4. Class 44.
White, George S., Los Angeles, Calif. Cloths for filtering light rays. 273,216; Dec. 4. Class 44.
Whiting-Plover Paper Co., Stevens Point, Wis. Printing and writing paper. 274,247; Dec. 4. Class 37.
Whitney-Eckstein Seed Co., Buffalo, N. Y. Lawn-grass and field seeds. 272,592; Dec. 4. Class 1.
Willmann, Wm. G., Paper Co. Inc., New York, N. Y. Printing and writing paper. 273,951; Dec. 4. Class 37.
Wilmington Creamery, Wilmington, Calif. Ice cream. 252,006; Dec. 4. Class 46.
Wing Hing Company, assignor to Wing Coffee Company, Honolulu, Hawaii. Coffee, tea, and fruit preserved in sugar, etc. 261,596; Dec. 4. Class 46.
Winston and Newell Company, Minneapolis, Minn. Starch. 273,533; Dec. 4. Class 6.
Woodville Lime Products Co., The, Toledo, Ohio. Lime. 261,725; Dec. 4. Class 10.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

CLASS 1.

Cellulose material for windshields, optical frames, watch crystals, etc., Noninflammable. Charmette Co. Inc. 250,324; Dec. 4; Serial No. 264,714; published Sept. 11, 1928.

Charcoal. Tennessee Products Corporation. 250,201; Dec. 4; Serial No. 265,304; published Aug. 21, 1928.

Clay. Penn Products Corporation. 250,225; Dec. 4; Serial No. 268,699; published Aug. 28, 1928.

Coal. Coleman & Company, Inc. 250,227; Dec. 4; Serial No. 268,678; published Sept. 11, 1928.

Coal. Ed. A. Gorman, Incorporated. 250,321; Dec. 4; Serial No. 267,952; published Aug. 21, 1928.

Coal. Jeddo-Highland Coal Company. 250,260; Dec. 4; Serial No. 251,560; published Sept. 18, 1928.

Coal. Midland Coal Sales Company. 250,207; Dec. 4; Serial No. 265,055; published Sept. 4, 1928.

Coal. Midland Coal Sales Company. 250,208; Dec. 4; Serial No. 265,052; published Sept. 4, 1928.

Coal. C. M. Moderwell. 73,274; renewed Apr. 6, 1929.

Coal. Tildesley Coal Company. 250,307; Dec. 4; Serial No. 268,521; published Sept. 11, 1928.

Coal, Bituminous. Lillybrook Coal Company. 250,337; Dec. 4; Serial No. 262,664; published Aug. 7, 1928.

Coal except smithing coal. Pittsburgh Coal Company. 250,246; Dec. 4; Serial No. 267,207; published Aug. 7, 1928.

Cotton and sacked cottonseed, Baled lint. Greer Staple Cotton Breeding Farms. 250,314; Dec. 4; Serial No. 268,220; published Sept. 11, 1928.

Diatomite. Diatomite Products Company. 250,263-4; Dec. 4; Serial Nos. 248,815-16; published Aug. 7, 1928.

Earth, Diatomaceous. Floatstone Products Company. 250,354; Dec. 4; Serial No. 269,727; published Sept. 18, 1928.

Earth, Diatomaceous or infusorial. Denver Fire Clay Company. 250,323; Dec. 4; Serial No. 262,156; published Aug. 7, 1928.

Fibres for making felts, fabrics, and yarns, Vegetable. Società Anonima Cellulosa. 250,257; Dec. 4; Serial No. 259,600; published Sept. 11, 1928.

Fur pelts. B'ark Star Mink Farm. 250,245; Dec. 4; Serial No. 267,226; published Aug. 21, 1928.

Furs. Joseph Hollander, Inc. 250,258; Dec. 4; Serial No. 258,910; published Aug. 7, 1928.

Furs. U. S. Fur Auction Brokerage Corp. 250,328; Dec. 4; Serial No. 264,546; published Aug. 21, 1928.

Hides and furs. United Rabbitries Marketing Inc. 250,238; Dec. 4; Serial No. 267,814; published Aug. 21, 1928.

Lambskins. American Broadtail Corporation. 250,219; Dec. 4; Serial No. 268,837; published Sept. 4, 1928.

Leather in the piece, Lace. J. E. Rhoads & Sons. 250,308; Dec. 4; Serial No. 268,512; published Sept. 11, 1928.

Leathers. Hunt-Rankin Leather Co. 250,358; Dec. 4; Serial No. 269,661; published Sept. 18, 1928.

Leathers. Ohio Leather Company. 250,332; Dec. 4; Serial No. 264,183; published Aug. 21, 1928.

Mariaceous material. M. E. Travers. 250,247; Dec. 4; Serial No. 267,163; published Aug. 21, 1928.

Plastic material. American Nuplax Corporation. 250,206; Dec. 4; Serial No. 265,082; published Sept. 4, 1028.

Seed. Lawn-grass. J. M. McCullough's Sons Co. 250,176-7; Dec. 4; Serial Nos. 269,534-5; published Sept. 18, 1928.

Seeds. Whitney-Eckstein Seed Co. 250,234-5; Dec. 4; Serial Nos. 267,881-2; published Aug. 14, 1928.

Seeds and seed grains, Field. Occidental Seed Company. 250,275; Dec. 4; Serial No. 226,366; published Aug. 14, 1928.

Vegetable, animal, and mineral substances. Moler Products Limited. 250,333; Dec. 4; Serial No. 264,038; published Sept. 4, 1928.

Wood products, Ground-. Burnet Company. 250,205; Dec. 4; Serial No. 265,138; published Aug. 14, 1928.

CLASS 3.

Pocketbooks and cardcases. Emil Weisshrod and Sons Incorporated. 72,549; renewed Feb. 2, 1929.

CLASS 4.

Polish, Silver and gold. F. T. Lord Polish Co. 73,278; renewed Apr. 6, 1929.

Steel for use as an abrasive, Crushed. Pittsburgh Crushed Steel Company. 73,380; renewed Apr. 13, 1929.

CLASS 6.

Antiseptic. Mintolene Products Co. 250,255; Dec. 4; Serial No. 261,376 published Sept. 11, 1928.

Antiseptic, deodorant, etc. Halosine Company. 250,203; Dec. 4; Serial No. 265,212; published Sept. 18, 1928.

Antiseptic preparation. C. W. Straffon. 250,360; Dec. 4; Serial No. 229,131; published June 29, 1926.

Astringents, cerates, bleach creams, etc. P. B. Jacobs. 250,183; Dec. 4; Serial No. 269,293; published Sept. 4, 1928.

Bath salts. National Chemical Holdings Ltd. 250,330; Dec. 4; Serial No. 264,381; published Sept. 11, 1928.

Biologics, serums, pharmaceuticals. Norden Laboratories. 250,284; Dec. 4; Serial No. 267,313; published Sept. 11, 1928.

Calcium carbide. Union Carbide Company. 73,153; renewed Mar. 23, 1929.

Calcium chloride. Michigan Alkali Company. 250,303; Dec. 4; Serial No. 268,554; published Sept. 4, 1928.

Chemical. Visco Chemical Products Company. 250,171; Dec. 4; Serial No. 269,617; published Sept. 18, 1928.

Chemical and pharmaceutical products. Eli Lilly and Company. 250,331; Dec. 4; Serial No. 264,377; published Sept. 4, 1928.

Chemical fluid for cigarette lighters. Midway Chemical Co. 250,371; Dec. 4.

Chemical preparations, Oil-containing. Aix-Olein Co. 250,370; Dec. 4.

Cosmetics. Lynne Arley, Inc. 250,369; Dec. 4.

Creams and lotions. Lynn Arley, Inc. 250,374-5; Dec. 4.

Dentifrices, dental creams, tooth pastes, etc. J. J. Harris. 250,240; Dec. 4; Serial No. 267,707; published Sept. 18, 1928.

Disinfectant. L. G. Duggar. 250,262; Dec. 4; Serial No. 249,266; published Sept. 18, 1928.

Eau de cologne water, perfumery, hair tonics, etc. P. P Mülhens. 250,322; Dec. 4; Serial No. 261,803; published Sept. 18, 1928.

Fluid, Ink-removing. Unique Manufacturing Co. 250,217; Dec. 4; Serial No. 268,895; published Sept. 18, 1928.

Hairdressing. M. M. Fleron & Son, Inc. 250,359; Dec. 4; Serial No. 269,650; published Sept. 18, 1928.

Hair tonic and preparations for skin. G. Rappazzo. 250,186; Dec. 4; Serial No. 269,205; published Sept. 11, 1928.

Healing antiseptic. F. E. Daniel. 250,362; Dec. 4; Serial No. 266,793; published Sept. 4, 1928.

Insecticide. Balfour, Guthrie & Co. 250,316; Dec. 4; Serial No. 268,204; published Sept. 4, 1928.

Insecticide. R. H. Macy & Co. 250,309; Dec. 4; Serial No. 268,506; published Sept. 4, 1928.

Insecticides. G. McCloskey. 250,220; Dec. 4; Serial No. 268,797; published Sept. 18, 1928.

Laxative gum. Weller Brothers. 250,356; Dec. 4; Serial No. 269,702; published Sept. 18, 1928.

Liniment. F. Ad. Richter & Co. of New York. 250,313; Dec. 4; Serial No. 268,307; published Aug. 14, 1928.

Magnesium carbonates. H. Kimura. 250,272; Dec. 4; Serial No. 257,878; published Sept. 4, 1928.

Material for fluxing the impurities and oxides in non-ferrous-metal mixtures. Lava Crucible Company of Pittsburgh. 250,368; Dec. 4.

Material for redyeing and renovating plush. Wilson-Imperial Company. 250,335; Dec. 4; Serial No. 263,296; published Sept. 18, 1928.

Medicinal preparation. Dr. J. H. McLean Medicine Co. 250,378; Dec. 4.

Medicinal preparation. D. Scocos. 250,339; Dec. 4; Serial No. 262,266; published Sept. 18, 1928.

Medicine and pharmaceutical preparation. Oregon Kelp-Ore Products Company. 250,276; Dec. 4; Serial No. 222,789; published Mar. 23, 1926.

Perfume, toilet water, face powder, etc. Societe Martial et Armand et Cie. 250,190; Dec. 4; Serial No. 266,562; published Sept. 11, 1928.

Perfumes, toilet powders, and toilet waters. Barouh Hermanos. 250 334; Dec. 4; Serial No. 263,915; published Aug. 21, 1928.

Perfumery extracts, toilet powders, and bath crystals. F. R. Arnold & Co. 250,251; Dec. 4; Serial No. 180,166; published Dec. 25, 1923.

Perfumery products. Société Parisienne d'Essences Rares et de Parfums. 250,274; Dec. 4; Serial No. 229,756; published Aug. 24, 1926.

Pharmaceutical products. Pneumo-Phthysine Chemical Manufacturing Company. 250,189; Dec. 4; Serial No. 269,056; published Sept. 18, 1928.

Powder, compacts, lip sticks, etc., Bath. Isabey Paris, Inc. 250,248; Dec. 4; Serial No. 267,128; published Sept. 4, 1928.

Powder for use as an antacid gas eliminant, Stomach. Samodan Company. 250,228; Dec. 4; Serial No. 268,635; published Sept. 11, 1928.

Powder, Manicure. H. E. Willaie. 250,232; Dec. 4; Serial No. 267,914; published Sept. 1, 1928.

Preparation, Chemical bleaching. Jack Margolis. 250 304; Dec. 4; Serial No. 268,552; published Aug. 14, 1928.

Preparation for corns, calll, warts, etc. "Gets-It" Inc. 250,241; Dec. 4; Serial No. 267,573; published Sept. 4, 1928.

Preparation for the reduction of obesity, for the treatment of ovarian disfunction, etc. Cole Chemical Company. 250,301; Dec. 4; Serial No. 268,586; published Sept. 11, 1928.

Preparation for the skin and the hair. Hair & Scalp Institute, Inc. 250,192; Dec. 4; Serial No. 266,371; published Sept. 4, 1928.

Preparation for the treatment of asthma. O. W. Dean. 250,170; Dec. 4; Serial No. 269,641; published Sept. 18, 1928.

Preparation, Liquid. Thomas P. Cahill. 250,312; Dec. 4; Serial No. 268,420; published Sept. 11, 1928.





Preparation of magnesia. Charles H. Phillips Chemical Company. 250,302; Dec. 4; Serial No. 268,561; published Sept. 18, 1928.

Preparation to be used by injection in treating phthisis, etc. M. Alexiades. 250,191; Dec. 4; Serial No. 266,450; published Sept. 18, 1928.

Preparations, Deodorant and disinfectant. Sig. J. F. Hahn. 250,229; Dec. 4; Serial No. 268,601; published Sept. 11, 1928.

Preparations, Shampoo. H. T. Tagore. 250,243; Dec. 4; Serial No. 267,326; published Sept. 11, 1928.

Pyorrhea preparation and dentrifrice. Forhan Company. 250,188; Dec. 4; Serial No. 269,063; published Sept. 18, 1928.

Salve. B. Kohosoff. 69,748; renewed June 30, 1928.

Salves and ointments, etc., Healing. Russia Cement Company. 250,185; Dec. 4; Serial No. 269,260; published Sept. 18, 1928.

Toilet preparations. Wilfred Laboratories, Inc. 250,277; Dec. 4; Serial No. 220,380; published Apr. 6, 1926.

Tonic, blood purifier, etc., Nerve. Weinberger Drug Company. 250.195; Dec. 4; Serial No. 266,231; published Sept. 18, 1928.

Tonic, Hair. A. Lentino. 250.357; Dec. 4; Serial No. 269,669; published Sept. 18, 1928.

Tonics and appetizers, Hog. Swinex Company. 250,254; Dec. 4; Serial No. 261,533; published Sept. 18, 1928.

CLASS 10.

Fertilizers. Federal Chemical Company. 72,244; renewed Jan. 12, 1929.

Fertilizers. Federal Chemical Company. 72,361; renewed Jan. 19, 1929.

CLASS 12.

Cementitious products. W. Haessler, jr. 250,377; Dec. 4.

Reinforcements, girders, beams, etc., Steel. H. Sorensen. 250,376; Dec. 4.

CLASS 13.

Kitchen utensils. Utility Manufacturing Company. 250,266; Dec. 4; Serial No. 244,035; published June 7, 1927.

CLASS 14.

Carbides and their alloys, Metallic. Fried. Krupp Aktiengesellschaft. 250,233; Dec. 4; Serial No. 267,890; published Sept. 18, 1928.

CLASS 15.

Gasoline. Mehmken Oil Co. 250,284; Dec. 4; Serial No. 254,467; published Aug. 7, 1928.

CLASS 16.

Cleaning and polishing liquid, Automobile. E. Eback. 250,250; Dec. 4; Serial No. 266,856; published Sept. 18, 1928.

Colors, Artists' oil. G. Gilbert. 250,187; Dec. 4; Serial No. 269,188; published Sept. 18, 1928.

Painters' materials. A. Wilhelm Company. 71,367; renewed Nov. 24, 1928.

Painters' materials. A. Wilhelm Company. 71,704; renewed Dec. 15, 1928.

Paints, enamels, stains, and colors. A. Wilhelm Company. 71,540; renewed Dec. 1, 1928.

Paints, varnishes, paint enamels, etc. Crown Paint & Color Works. 250,268; Dec. 4; Serial No. 234,380; published Sept. 18, 1928.

Varnishes. Martin Varnish Company. 250,280; Dec. 4; Serial No. 270,431; published Sept. 18, 1928.

CLASS 17.

Cigars. Rothenberg & Schloss Cigar Co. 250,291; Dec. 4; Serial No. 270,725; published Sept. 18, 1928.

Cigars. Starlight & Son. 250,289; Dec. 4; Serial No. 270,807; published Sept. 18, 1928.

Cigars and stogies. L. Harris Company. 250,341; Dec. 4; Serial No. 270,377; published Sept. 18, 1928.

CLASS 19.

Radiators, Vehicle. Young Radiator Company. 250,372; Dec. 4.

CLASS 22.

Chalk, Billiard. William A. Spinks & Co. 70,308; renewed Aug. 18, 1928.

CLASS 23.

Drill chucks, drills, hammers, etc. Stickler & Magnuson Aktieboing. 250,172; Dec. 4; Serial No. 269,614; published Sept. 18, 1928.

Pneumatic apparatus and equipment. Allen Air Appliance Company. 250,348; Dec. 4; Serial No. 269,931; published Sept. 18, 1928.

Razors and blades therefor. P. Müller. 250,236; Dec. 4; Serial No. 267,853; published Sept. 18, 1928.

Saws. W. O. Barnes Co. Inc. 250,290; Dec. 4; Serial No. 270,735; published Sept. 18, 1928.

CLASS 26.

Charts, Mechanical graphic. W. D. Whitcomb. 250,295; Dec. 4; Serial No. 270,658; published Sept. 18, 1928.

Series of animated motion-picture cartoons. Universal Pictures Corporation. 250,300; Dec. 4; Serial No. 270,450; published Sept. 18, 1928.

Speedometers, ammeters, etc. Ford Motor Company. 250,230; Dec. 4; Serial No. 268,595; published Sept. 18, 1928.

CLASS 27.

Watches and watch movements. Jules Racine & Co. 72,572; renewed Feb. 2, 1929.

CLASS 29.

Brushes. Whiting-Adams Company. 250,340; Dec. 4; Serial No. 270,404; published Sept. 18, 1928.

Brushes, Shaving. E. R. Squibb & Sons. 250,345; Dec. 4; Serial No. 269,993; published Sept. 18, 1928.

Paintbrushes, varnish brushes, etc. Hanlon & Goodman Co. 250,221; Dec. 4; Serial No. 268,784; published Sept. 18, 1928.

CLASS 32.

Bed springs, Metal. Burton-Dixie Corporation. 250,299; Dec. 4; Serial No. 270,534; published Sept. 18, 1928.

Furniture, Household. Showers Brothers Company. 250,361; Dec. 4; Serial No. 267,515; published Sept. 25, 1928.

Inclosures for prescriptions and file cabinets. C. M. Anderson. 250,343; Dec. 4; Serial No. 270,106; published Sept. 18, 1928.

Mattresses, bed springs, etc. Ellison Furniture & Carpet Co. 250,298; Dec. 4; Serial No. 270,630; published Sept. 18, 1928.

Rack, Card-display. Hexter Bros. 250.297; Dec. 4; Serial No. 270,635; published Sept. 18, 1928.

CLASS 35.

Brake lining. W. Duncan. 250,292; Dec. 4; Serial No. 270,693; published Sept. 18, 1928.

Hose, Fire. Gutta Percha & Rubber Manufacturing Company. 72,535; renewed Feb. 2, 1929.

Tires, Rubber vehicle. B. F. Goodrich Company. 250,311; Dec. 4; Serial No. 268,433; published Sept. 18, 1928.

CLASS 37.

Paper, Blotting. Albermarle Paper Manufacturing Company. 72,402; renewed Jan. 26, 1929.

CLASS 39.

Bathing suits. Worcester Knitting Co. 250,352; Dec. 4; Serial No. 269,754; published Sept. 18, 1928.

Blouses, negligee and work shirts, and play suits, Boys'. Reliance Manufacturing Company. 250,282; Dec. 4; Serial No. 256,374; published Sept. 18, 1928.

Boots and shoes, Leather and canvas. Tufts & Friedman. 69,541; renewed June 16, 1928.

Clothing for women, misses, and girls. La Société L. Blanchard & Cie. 250,271; Dec. 4; Serial No. 258,130; published Sept. 18, 1928.

Coats and dresses. Chicago Mail Order Company. 250,202; Dec. 4; Serial No. 265,260; published Sept. 11, 1928.

Coats, pants, and vests, football trousers, etc., Hunting. Cullum & Boren Company. 250,193; Dec. 4; Serial No. 266,356; published Sept. 11, 1928.

Coats, suits, and dresses. Joseph Engel Company. 250,350; Dec. 4; Serial No. 269,776; published Sept. 18, 1928.

Coats, topcoats, suits, etc., Rainproof. Cohen & Wilks, Limited. 250,336; Dec. 4; Serial No. 262,842; published Sept. 11, 1928.

Dresses. Lazare Klein Company. 250,320; Dec. 4; Serial No. 267,970; published Sept. 18, 1928.

Dresses. Monnig Dry Goods Company. 250,175; Dec. 4; Serial No. 269,536; published Sept. 18, 1928.

Dresses. Normandin Bros. Co. 250,353; Dec. 4; Serial No. 269,740; published Sept. 18, 1928.

Dresses, coats, suits, and sweaters, Women's. Gimbel Brothers, Inc. 250,267; Dec. 4; Serial No. 240,781; published Sept. 11, 1928.

Dresses, frocks, and dresses, Women's house. La Crosse Garment Co. 250,281; Dec. 4; Serial No. 252,716; published Sept. 18, 1928.

Frocks, Ladies'. E. Moskowitz. 250,256; Dec. 4; Serial No. 260,743; published July 10, 1928.

Frocks, staple and novelty smocks, and aprons, Wash. Frenchie Frocks, Inc. 250,305; Dec. 4; Serial No. 268,538; published Sept. 18, 1928.

Garments comprising at present pajamas and nightgowns of textile fabrics, Sleeping. E. H. Horwood & Co. 250,285; Dec. 4; Serial No. 252,845; published Sept. 11, 1928.

Hose, Cotton half. R. M. Gring. 250,242; Dec. 4; Serial No. 267,444; published Sept. 18, 1928.

Hosiery. C. F. Berg. 250,342; Dec. 4; Serial No. 270,227; published Sept. 18, 1928.

Hosiery. Chas. Chipman's Sons. 71,179; renewed Nov. 10, 1928.

Hosiery. Finery Silk Stocking Co. 250,178; Dec. 4; Serial No. 269,465; published Sept. 11, 1928.

Hosiery. J. L. Hudson Company. 250.329; Dec. 4; Serial No. 264,306; published Sept. 18, 1928.

Hosiery. E. Kinerk. 250,283; Dec. 4; Serial No. 255,715; published Sept. 18, 1928.

Hosiery. Nebel Knitting Company. 250,346; Dec. 4; Serial No. 269,974; published Sept. 18, 1928.
Hosiery. Rollins Hosiery Mills. 250,269; Dec. 4; Serial No. 233,847; published Sept. 11, 1928.
Hosiery. Rollins Hosiery Mills. 250,270; Dec. 4; Serial No. 231,405; published Sept. 11, 1928.
Hosiery. Rollins Hosiery Mills. 250,273; Dec. 4; Serial No. 231,403; published Sept. 11, 1928.
Hosiery. L. B. Schwab. 250,310; Dec. 4; Serial No. 268,466; published Sept. 11, 1928.
Hosiery and work shirts. W. T. Grant Company. 250,349; Dec. 4; Serial No. 269,842; published Sept. 18, 1928.
Overalls. Levi Strauss & Company. 250,265; Dec. 4; Serial No. 248,368; published Sept. 18, 1928.
Overalls, pants, work shirts, etc., Men's. Iron King Overall Company. 250,326; Dec. 4; Serial No. 264,646; published Sept. 18, 1928.
Overalls, work jackets, and coveralls. Charleston Manufacturing Co. 250,223; Dec. 4; Serial No. 268,772; published Sept. 11, 1928.
Shirts. Horace L. Allen Mfg. Co. 250,184; Dec. 4; Serial No. 269,271; published Sept. 18, 1928.
Shirts. Boyd-Richardson Company. 250,315; Dec. 4; Serial No. 268,206; published Sept. 18, 1928.
Shirts. Kaufmann Department Stores, Inc. 250,317; Dec. 4; Serial No. 268,160; published Sept. 11, 1928.
Shirts. Land Shirt Co. 250,237; Dec. 4; Serial No. 267,842; published Sept. 11, 1928.
Shirts. Worthy Manufacturing Company. 250,210–12; Dec. 4; Serial Nos. 268,950–2; published Sept. 18, 1928.
Shirts. Worthy Manufacturing Company. 250,213–15; Dec. 4; Serial Nos. 268,946–8; published Sept. 18, 1928.
Shirts. Worthy Manufacturing Company. 250,216; Dec. 4; Serial No. 268,945; published Sept. 18, 1928.
Shirts, Outer. Rothschild Greenfield Co. 250,209; Dec. 4; Serial No. 269,153; published Sept. 18, 1928.
Slips, bloomers, step-ins, etc. H. A. Marans. 250,319; Dec. 4; Serial No. 267,982; published Sept. 11, 1928.
Stockings. R. Lazard. 250,182; Dec. 4; Serial No. 269,356; published Sept. 18, 1928.
Suits, Boys'. J. Tartikoff & Sons. 250,224; Dec. 4; Serial No. 268,711; published Sept. 4, 1928.
Suits, Men's. Hickey-Freeman Co. 250,286 Dec. 4; Serial No. 270,424; published Sept. 18, 1928.
Sweaters, sweater coats, and jackets, Knitted. Keller Knitting Company. 250,239; Dec. 4; Serial No. 267,774; published Sept. 18, 1928.
Underwear. Amazon Knitting Company. 250,180–1; Dec. 4; Serial Nos. 269,381–2; published Sept. 11, 1928.

CLASS 42.

Rugs, Textile. Artloom Corporation. Nos. 250,363–7; Dec. 4.
Towels, Turkish. Mooresville Cotton Mills. 250,287; Dec. 4; Serial No. 271,004; published Sept. 18, 1928.
Wool, cotton, silk, rayon, and linen fabrics. Fred Butterfield & Co. 250,373; Dec. 4.
Wool interlining, Lamb's. Excelsior Quilting Co. 73,161; renewed Mar. 23, 1929.

CLASS 44.

Teeth, Porcelain. Dentists' Supply Co. 70,927; renewed Oct. 20, 1928.

CLASS 45.

Beverages and compounds for making the same. Citrus Products Company. 250,351; Dec. 4; Serial No. 269,768; published Sept. 18, 1928.
Beverages and sirups for making the same. D. Rnecoff. 250,294; Dec. 4; Serial No. 270,079; published Sept. 18, 1928.
Beverages and syrups and concentrates for making the same. E. J. Townsend. 250,293; Dec. 4; Serial No. 270,681; published Sept. 18, 1928.

CLASS 46.

Biscuit dough. H. F. Monmonier. 250,279; Dec. 4; Serial No. 270,435; published Sept. 18, 1928.
Bread. Manbeck Baking Company. 250,296; Dec. 4; Serial No. 270,639; published Sept. 11, 1928.
Bread. McGavin's Bread, Inc. 250,226; Dec. 4; Serial No. 268,697; published Sept. 18, 1928.
Bread. Taylor and Drew. 250,278; Dec. 4; Serial No. 217,427; published Sept. 18, 1928.
Buns and rolls and sandwiches. Circle Lunch Corporation of America. 250,197; Dec. 4; Serial No. 265,950; published Sept. 18, 1928.
Butter, Creamery. H. H. Meyer Packing Company. 250,288; Dec. 4; Serial No. 270,851; published Sept. 18, 1928.
Cakes and bread. Capital City Baking Co. 250,204; Dec. 4; Serial No. 265,194; published Sept. 18, 1928.
Cocoa, bread and pastry flour, canned fish, etc. G. B. Wadsworth. 250,252; Dec. 4; Serial No. 248,980; published Apr. 10, 1928.
Cocoa, bread and pastry flour, canned fish, etc. G. B. Wadsworth. 250,253; Dec. 4; Serial No. 248,942; published Apr. 10, 1928.
Coffee. Richert Bros. 72,235; renewed Jan. 12, 1929.
Coffee, Blended. R. C. Williams & Co. 71,418; renewed Nov. 24, 1928.
Doughnuts. E. S. Goldhill. 250,174; Dec. 4; Serial No. 269,582; published Sept. 18, 1928.
Flour, Wheat. Wm. Kelly Milling Company. 69,029; renewed June 23, 1928.
Flour, Wheat and self-rising. Lawrenceburg Roller Mills Co. 250,173; Dec. 4; Serial No. 269,592; published Sept. 18, 1928.
Milk and cream. Detroit Creamery Company. 250,344; Dec. 4; Serial No. 270,018; published Sept. 4, 1928.
Syrup, Sugar-cane food. Meeker Sugar Refining Company. 250,199; Dec. 4; Serial No. 265,489; published Aug. 7, 1928.
Wheat flour, meal, horse feed, etc. Arkadelphia Milling Co. 250,179; Dec. 4; Serial No. 269,441; published Sept. 11, 1928.

CLASS 48.

Beverage used as a tonic. Falls City Ice & Beverage Company. 250,355; Dec. 4; Serial No. 269,724; published Sept. 18, 1928.
Malt cereal beverages, Nonalcoholic. Jackson Brewing Company. 250,347; Dec. 4; Serial No. 269,900; published Sept. 18, 1928.

CLASS 50.

Cushion for linoleum and cork carpets, Under. American Hair Felt Company. 250,198; Dec. 4; Serial No. 265,768; published Aug. 14, 1928.
Cushion for linoleum and cork carpets, Under. American Hair Felt Company. 250,200; Dec. 4; Serial No. 265,460; published Aug. 14, 1928.
Fabric, Coated. Textileather Corporation. 250,218; Dec. 4; Serial No. 268,893; published Sept. 4, 1928.
Fabrics, Air-tight, water-tight, acid and heat resistant. E. I. du Pont de Nemours and Company. 250,231; Dec. 4; Serial No. 267,942; published Sept. 11, 1928.
Hangers, Coat. White Luggage Co. 250,306; Dec. 4; Serial No. 268,523; published Sept. 11, 1928.
Holders, Christmas-tree. Noma Electric Corporation. 250,259; Dec. 4; Serial No. 251,851; published Sept. 11, 1928.
Leather substitutes and pyroxylin coated fabrics. Aspinook Co. 250,318; Dec. 4; Serial No. 268,074; published Aug. 21, 1928.
Mats, Table. Heat Proof Table Mat Company. 250,261; Dec. 4; Serial No. 251,056; published Aug. 21, 1928.
Name plates and poultry equipment. James Manufacturing Company. 250,240; Dec. 4; Serial No. 267,053; published Aug. 7, 1928.
Poultry nests. Forster Automatic Poultry Separator Company. 250,327; Dec. 4; Serial No. 264,574; published Sept. 4, 1928.
Reflectors, Metal. Karnak Chemical Company. 250,194; Dec. 4; Serial No. 266,253; published Sept. 4, 1928.
Rubber bath mats. J. A. Kaplan. 250,338; Dec. 4; Serial No. 262,567; published Sept. 11, 1928.
Shoe-trees. Shoecraft Shop Inc. 250,196; Dec. 4; Serial No. 265,989; published Aug. 28, 1928.
Statuary. Hy-Art Hy-Way Display Corporation. 250,325; Dec. 4; Serial No. 264,687; published Aug. 21, 1928.
Waterproof fabrics. J. C. Haartz Company. 250,222; Dec. 4; Serial No. 268,783; published Aug. 28, 1928.

## ALPHABETICAL LIST OF LABELS.

Arpeako Pure Pork Sausage In Links. For Pure Pork Sausage in Links. Rochester Packing Co. 35,044; Dec. 4.
"Aviator" Flannel Shirts. For Men's Flannel Shirts Made of Part Wool and Wool Fabrics. Clawson & Wilson Company. 35,028; Dec. 4.
Beau-Geste. For Cheese. B. Chesman & Son Inc. 35,027; Dec. 4.
Big Hearted Al. For Candy. Williamson Candy Co. 35,049; Dec. 4.
Fruit Flavored Castor Oil. For Castor Oil. W. A. Walsh. 35,047; Dec. 4.
Fruit Flavored Cod Liver Oil. For Cod-Liver Oil. W. A. Walsh. 35,048; Dec. 4.
Gill's Hotel Special. For Coffee and Chicory. James G. Gill Co. 35,033; Dec. 4.
Independent Malt Extract Bohemian Style. For Malt Syrup. Independent Milwaukee Brewery. 35,036; Dec. 4.
Kane's Best. For Malt Syrup and Malt Extract. M. Kane. 35,037; Dec. 4.
Kiln Dried Cream Corn Meal. For Corn Meal. Jenny Wren Co. 35,050; Dec. 4.
Kirshner's Jewel Bright. For Jewelry-Cleaning Outfits or Kits. N. M. Kirshner. 35,038; Dec. 4.
Lucky Life. For Malt Syrup. Lucky Life Distributing Company. 35,040; Dec. 4.



Moritz Sweets. For Candy. Pacific Coast Biscuit Company. 35,042; Dec. 4.
Oh Yes We Grow The Best Apples (Blue Label). For Fresh Apples. Earl Fruit Company. 35,031; Dec. 4.
Oh Yes We Grow The Best Apples (Red Label). For Fresh Apples. Earl Fruit Company. 35,030; Dec. 4.
Oh Yes We Grow The Best Apples (Yellow Label). For Fresh Apples. Earl Fruit Company. 35,029; Dec. 4.
P. For Pears. Palmer Corporation. 35,043; Dec. 4.
Persharak. For Rugs and Carpets of a Tapestry Weave. Stephen Sanford & Sons, Inc. 35,045; Dec. 4.
R—164. For Medicine. R. A. Brackett. 35,022; Dec. 4.
Rastus. For Watermelons. Kramer & Barcus. 35,039; Dec.. 4
Shu-Shine. For Shoe Polish. C. P. Buchanan. 35,023; Dec. 4.
"Starjax" on One Side and "Rules" on the Other Side. For Jack Sets. Grey Iron Casting Company. 35,034; Dec. 4.
Starlite Copper Dip. For Metal Cleanser and Restorer. Carasso Supply Co. 35,024; Dec. 4.
Starlite Silver Dip. For Metal Cleanser and Restorer. Carasso Supply Co. 35,025; Dec. 4.
Starlite Silver Gloss. For Metal Cleanser and Restorer. Carasso Supply Co. 35,026; Dec. 4.
Stringol. For a Prescription in Liquid Form, Antiseptic and Astringent in Nature. Dr. W. T. Gullion. 35,035; Dec. 4.
Super-Mash—Starts Them—Grows Them—Makes Them Lay. For Poultry Feed. Feeders Supply and Manufacturing Company. 35,032; Dec. 4.
Surtea The Drinkfood. For Yerba-Mate. Surtea Incorporated. 35,046; Dec. 4.
Tobler Die Vitaminreiche Schweizer Chocolade. For Chocolate. Aktiengesellschaft Chocolat Tobler. 35,021; Dec. 4.
Vel-Vette. For a Preparation for Whitening the Skin. Mme. Ludays. 35,041; Dec. 4.

## ALPHABETICAL LIST OF PRINTS.

All Aboard for the Land of Nod. For Blankets. Nashua Manufacturing Company. 11,365; Dec. 4.
Do You Know Elizabeth Arden Herself. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,358; Dec. 4.
Each Evening the End of a Perfect Day. For Coffee. M. J. B. Company. 11,363; Dec. 4.
For Your Colds Too. For Remedies for the Relief of Colds. Vick Chemical Company. 11,370; Dec. 4.
Good—Wingfoot—Year The Greatest Name in Rubber. For Rubber. Goodyear Tire & Rubber Company Inc. 11,360; Dec. 4.
Have You One Gray Hair? And Does It Frighten You? For Inecto Rapid Notox. Inecto, Inc. 11,361; Dec. 4.
Jersey White Giants. For Live Poultry. U. L. Meloney. 11,362; Dec. 4.
Millwork. For Millwork. North Side Sash & Door Co. 11,366; Dec. 4.
Orange Blossom. For Stationery. W. J. Ecker, jr. 11,339; Dec. 4.
Standard Unbreakable Watch Crystals, Inc., New York, N. Y., U. S. A. For Unbreakable Watch Crystals and Machine to Insert These Unbreakable Crystals. Standard Unbreakable Watch Crystals Inc. 11,368; Dec. 4.
Sylvania Radio Tubes. For Radiotubes. Sylvania Products Co. 11,369; Dec. 4.
The Millions of Tiny Fibres That Seal Body Warmth In. For Blankets. Nashua Manufacturing Company. 11,364; Dec. 4.
These Leading Aircraft Manufacturers. For Bearings. S. K. F. Industries, Inc. 11,367; Dec. 4.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abbott Laboratories. (See Adams, R., and Hiers, assignors.)
Acro Aktiengesellschaft. (See Lang, Franz, assignor.)
Adams, Roger, and G. S. Hiers, Urbana, assignor to Abbott Laboratories, North Chicago, Ill. Cyclohexyl-substituted aliphatic acids. 1,693,801; Dec. 4.
Adams, William H., Kenyon, R. I. Sectional induction coil. 1,694,091; Dec. 4.
Adler, Milton M. (See Reihlen, Hans, assignor.)
Aimé, Frank L., Spokane, Wash. Attachment plug. 1,693,972; Dec. 4.
Aktieselskapet Krystal. (See Isaachsen, Isak, assignor.)
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electric apparatus. 1,694,244; Dec. 4.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Electrical transmission of pictures. 1,694,301; Dec. 4.
Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Transmission of pictures. 1,694,302; Dec. 4.
Alland, Maurice, Atlantic City, N. J. Combined comb and razor. 1,693,973; Dec. 4.
Allen, Arthur G., Cambridge, Mass. Paint-can holder. 1,693,772; Dec. 4.
Allen, Sarah R., Bethel, Conn. Convertible gocart and crib. 1,693,633; Dec. 4.
Allen, Walter J., et al. (See Rowley, Benjamin F., assignor.)
Alter, Frank R. (See Howe, Chester C., assignor.)
American Button & Fastener Co. (See Latham, Albert.)
American Chain Company. (See Yanss, George W., assignor.)
American Doucil Company. (See Wheaton, Harold J., assignor.)
American Incubator Manufacturing Company. (See Heldrich, Andrew, assignor.)
American Road Machinery Company. (See Greenwood, Raymond C., assignor.)
American Rolling Mill Company, The. (See Tytus, John B., assignor.)
American Sales Book Company. (See Hagemann, Louis F., assignor.)
American Telephone and Telegraph Company. (See McKown, Frederick W., assignor.)
American Telephone and Telegraph Company. (See Nyquist, H., and Pfleger, assignors.)
American Telephone and Telegraph Company. (See Ohl, Russell S., assignor.)
American Telephone and Telegraph Company. (See Weaver, Allan, assignor.)
Anaconda Sales Company. (See Wanamaker, Elmer M., assignor.)
Anchor Cap & Closure Corporation. (See Jaeger, Max, assignor.)
Anderson Company, The. (See Rivanov, Felix, assignor.)
Anderson, Frederick V., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Press. 1,694,114; Dec. 4.
Anderson, James B., assignor of one-fourth to L. S. Murray, San Diego, Calif. Aircraft pontoon apparatus. 1,693,773; Dec. 4.
Anderson, V. D., Company, The. (See Anderson, Frederick V., assignor.)
Angle, Glenn D., assignor to Detroit Aircraft Engine Corporation, Detroit, Mich. Crank-shaft oil plug. 1,693,882; Dec. 4.
Anoilcoal Burner Co., The. (See Wetmore, Earl P., assignor.)
Arenz, John A., Chicago, Ill., assignor to International Screw Company, Wilmington, Del. Screw pointing and threading machine. 1,694,303; Dec. 4.
Armstrong, George J., Raymond, Alberta, Canada. Liquid-dispensing container. 1,694,304; Dec. 4.
Arnett, Albert C. (See Shawen, E. W., and Arnett.)
Art Metal Screen and Weather Strip Company. (See Shogren, Charles A., assignor.)
Ascarelli, Enrico, Rome, Italy. Swiveled axle for motor cars. 1,694,305; Dec. 4.
Astley, Edward F., assignor to H. M. Seyer, Chicago, Ill. Brush. 1,694,306; Dec. 4.
Automatic Electric Inc. (See Gillings, Charles, assignor.)
Automatic Electric Inc. (See Martin, Talbot G., assignor.)
Automatic Electric Inc. (See Nelson, Martin L., assignor.)
Avera, Arch U., Florence, Ala. Transmission of power to vehicles. 1,693,914; Dec. 4.
Babcock & Wilcox Company, The. (See Harter, Isaac, assignor.)
Badger, E. B., and Sons Company. (See Webre, Alfred L., assignor.)
Bakelite Corporation. (See Redman, L. V., and Cheetham, assignors.)
Baker, Gilbert L., and H. W. Pattillo, Oakland, Calif. Window cleaner. 1,694,245; Dec. 4.
Baker, Russell W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Armature-insulation-cutting machine. 1,693,996; Dec. 4.
Bailey, George A. C. (See Stevens, J. P., and Bailey.)
Bailey, George S., assignor to J. M. Bailey, San Francisco, Calif. Display stand. 1,693,802; Dec. 4.
Bailey, James M. (See Bailey, George S., assignor.)
Bailey, Rufus W., Kansas City, Mo. Brake and door control for automotive buses. 1,693,834; Dec. 4.
Bait Manufacturing Co. (See Lemmon, George N., assignor.)
Barber-Colman Company. (See Edgar, John, assignor.)
Barber-Colman Company. (See Mitchell, Raymond C., assignor.)
Barbet, Emile A., Paris, France. Apparatus for the continuous preliminary treatment of crude benzoles. 1,693,774; Dec. 4.
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Dispenser and method of use. 1,693,883; Dec. 4.
Barbieri, Cesare, New York, N. Y., assignor to The Vortex Mfg. Co. Conical-cup dispenser. 1,694,157; Dec. 4.
Barclay, William R., and F. B. Keall, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Finishing machine. 1,693,634; Dec. 4.
Bardon, Donis M., Seattle, Wash. Cable-connecting means. 1,694,051; Dec. 4.
Bartholomew, Thomas, Columbus, Ohio. Toothpick holder. 1,694,200; Dec. 4.
Bauer, Raymond M., West St. Paul, Minn. Flower stand. Des. 77,049; Dec. 4.
Bauersfeld, Walther. (See Villiger, W., and Bauersfeld.)
Bay State Fishing Company. (See Mudge, R. C., and Gallison, assignors.)
Bean, Louis A., Denver, Colo. Radiator cap for automobiles. 1,694,030; Dec. 4.
Beaudoin, Hector. (See Le Blanc, H. L., and Beaudoin.)
Belden Manufacturing Company. (See Wermine, Hugo H., assignor.)
Bell, John E., Brooklyn, N. Y., assignor to Sinclair Refining Company, Chicago, Ill. Operation of pressure stills. 1,693,946; Dec. 4.
Bell, William T., Concord, N. H. Link mat. 1,693,803; Dec. 4.
Bemis, Albert F., Newton, assignor to Bemis Industries, Inc., Boston, Mass. Building construction. 1,693,742; Dec. 4.
Bemis Industries, Inc. (See Bemis, Albert F., assignor.)
Bendix Brake Company. (See McConkey, Montgomery W., assignor.)
Benedict, George W., assignor, by mesne assignments, to M. Ezell, Oakland, Calif. Brake drum. 1,694,052; Dec. 4.
Berger, Samuel I., Newark, N. J. Statuette. Des. 77,050; Dec. 4.
Best, Cyril. (See Mollins, W. E., and Best.)
Beuford, George, assignor of one-half to W. E. Cook, Pageton, W. Va. Harness. 1,693,743; Dec. 4.
Bickford, Clarence W., et al. (See Warga, Kalman, assignor.)
Bickford, Mary, et al. (See Warga, Kalman, assignor.)
Bienstock, Anna E., Newark, N. J. Attachment for cooking utensils. 1,693,974; Dec. 4.
Bishop, Travis L., et al. (See Rowley, Benjamin F., assignor.)
Blair, Rolandis A., Fort Wayne, Ind. Rail anchor. 1,693,804; Dec. 4.
Blaisdell, Harrison O., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,705; Dec. 4.
Blake, Lionel J. B., Bishops Stortford, England. Mixing machine. 1,693,688; Dec. 4.
Blake, William P., et al. (See Long, Wilber L., assignor.)
Blessman, Charles, jr., assignor to The Reel Novelty Mfg. Co., Toledo, Ohio. Reel for conducting cords. 1,693,884; Dec. 4.
Blow, Cargill, Winter Haven, Fla. Doorstop. Des. 77,051; Dec. 4.
Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Wheel for drilling-rig structures. 1,694,350; Dec. 4.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Condenser. 1,693,588; Dec. 4.

Bohn Aluminum and Brass Corporation. (See Flegel, W. J., and Enderick, assignors.)
Bolton, Andrew C., Miami, Fla. Bias-cutting machine. 1,693,589; Dec. 4.
Booth, Charles F. (See Carothers, J. N., and Booth.)
Booth, Ralph E., Lynn, Mass., assignor to General Electric Company. Indicating devices. 1,694,307; Dec. 4.
Booth, William K., Chicago, Ill., assignor to Electroil Syndicate. Electric fuel igniting. 1,694,053; Dec. 4.
Boozer, Douglas G. (See Williams, H. W., and Boozer.)
Borchert, Fred L., Rockford, Ill. Spring latch. 1,693,706; Dec. 4.
Borgman, Oscar J., Hammond, Ind. Boat-propelling mechanisms. 1,693,590; Dec. 4.
Bosch, Robert, Aktiengesellschaft. (See Ehrmann, Friedrich, assignor.)
Bosch, Robert, Aktiengesellschaft. (See Möhrle, Arthur, assignor.)
Bostedo, Louis G., Oak Park, Ill. Convertible steam and hot-water radiator. 1,694,201; Dec. 4.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Switch or receptacle plate. 1,694,054; Dec. 4.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Combination electric wall fitting. 1,694,158; Dec. 4.
Both, Tonjes A., Stratford, assignor to The Connecticut Electric Manufacturing Company, Bridgeport, Conn. Mounting for electrical devices. 1,694,159; Dec. 4.
Böttcher, Paul, Atona-Bahrenfeld, near Hamburg, Germany. Dovetailing, cogging, and indenting machine. 1,694,115; Dec. 4.
Bowen, William S., Westfield, N. J. Separation and liquefaction of gases. 1,694,308; Dec. 4.
Boyce, Harrison H. (See Hebig, Henry C., assignor.)
Boyne, Frank C., Graton, Calif. Capsule injector. 1,694,246; Dec. 4.
Brackett, Edward M. and F. M., Topeka, Kans. Intermittent feeding device. 1,694,202; Dec. 4.
Brackett, Fred M. (See Brackett, Edward M. and F. M.)
Bradley, Charles E., and G. L. Van Dinter, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Fastener-covering method and means. 1,693,805; Dec. 4.
Bradley, Charles E., and G. L. Van Dinter, assignors to Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Fastener covering and making same. 1,693,835; Dec. 4.
Bramble, Jesse, assignor to The Graham Glass Company, Evansville, Ind. Bottle or the like. Des. 77,052; Dec. 4.
Bramble, Jesse, assignor to The Graham Glass Company, Evansville, Ind. Bottle or the like. Des. 77,053; Dec. 4.
Bramble, Jesse, assignor to The Graham Glass Company, Evansville, Ind. Bottle or the like. Des. 77,054; Dec. 4.
Brandtjen & Kluge, Incorporated. (See Kluge, Abel and E., assignors.)
Braren, Lorenz K., Munich, assignor to firm: Friedrich Deckel Präzisionsmechanik und Maschinenbau, Munich, Bavaria, Germany. Gear transmission. 1,694,031; Dec. 4.
Brault, François, and André Cordier, Levallois-Perret, France. Brake mechanism. 1,694,203; Dec. 4.
Breneman, Paul E., assignor to C. R. Wilson Body Company, Detroit, Mich. Vehicle body. 1,693,836; Dec. 4.
Brecht, Emil, and R. Fugmann, Guben, Germany. Manufacture of wool felts. 1,694,032; Dec. 4.
Brewster, Oswald C., Casper, Wyo., assignor to Standard Oil Company, Whiting, Ind. Converting hydrocarbon oils. 1,694,092; Dec. 4.
Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)
Briggs, George L., Brooklyn, N. Y. Stocking. Des. 77,055; Dec. 4.
Briggs, Stephen F., assignor, by mesne assignments, to E. B. H. Tower, jr., Milwaukee, Wis. Electric motor. 1,694,247; Dec. 4.
British Dyestuffs Corporation Limited. (See Horsfall, R. S., and Lawrie, assignors.)
Brode, Johannes, and A. Johannsen, Ludwigshafen-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Carrying out catalytic oxidations in the gaseous or vapor state. 1,693,915; Dec. 4.
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown Company. (See Richter, George A., assignor.)
Brown, Samuel F., Heth, Ark. Cross-row cotton blocker. 1,694,204; Dec. 4.
Brown, William A., Philadelphia, Pa. Emergency convection heater. 1,694,160; Dec. 4.
Buc, Hyym E. (See Hopkins, M. B., and Buc.)
Buccini, Hugo A., assignor to Victory Lamp Company, Philadelphia, Pa. Electric-lighting-fixture ring. Des. 77,056; Dec. 4.
Buckham, Charles W., New York, N. Y. Building. 1,694,309; Dec. 4.
Buckham, George T. (See Dawson, A. T., and Buckham.)
Budd, Edward G., Manufacturing Company. (See D'Ardenne, Walter H., assignor.)
Budd Wheel Company. (See Nelson, Emil A., assignor.)
Budwig, Maurice, and J. N. Schneider, Cleveland, Ohio. Infantile napkin. 1,694,161; Dec. 4.
Bultenkamp, Frank, San Francisco, Calif. Track-laying skate. 1,694,162; Dec. 4.
Bulman, William V., Philadelphia, Pa. Adjustable supporting chair for wall closets, etc. 1,693,744; Dec. 4.
Burdett, Le Roy, assignor to Messenger Publishing Company, Inc., Chicago, Ill. Sheet-binding machine. 1,694,055; Dec. 4.
Burgess, Samuel N., London, England. Wristlet watch. Des. 77,057; Dec. 4.
Busch-Sulzer Bros.-Diesel Engine Co. (See Schaeren, Ernst, assignor.)
Butkovsky, John J. (See Ray, A. B., Doying, and Butkovsky.)
Butler, Henry E., Scotia, N. Y. Combined button and license-paper holder. 1,694,310; Nov. 4.
Butterworth, Arthur B., Port Arthur, Tex. Tank-cleaning device. 1,693,885; Dec. 4.
Byk, Alfred, Charlottenburg, Germany, assignor to General Electric Company. Telephone line. 1,694,248; Dec. 4.
Byles, Frank A., Schenectady, N. Y., assignor to General Electric Company. Electric regulator. 1,694,249; Dec. 4.
C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)
Cadis, Jean L. (See Coullie, J. G. G., and Cadis.)
Cady, Walter G., Middletown, Conn., assignor to Radio Corporation of America. Electromechanical system. 1,693,806; Dec. 4.
Calkins, Cecil, Albany, Oreg. Locking plug for extension cords. 1,694,056; Dec. 4.
Callan, Luke H., Bristol, R. I. Road. 1,693,807; Dec. 4.
Callis, Conral C. (See Kraus, C. A., and Callis.)
Calvert, William, et al. (See Le Bus, John E., assignor.)
Carbide and Carbon Chemicals Corporation. (See Davidson, Joseph G., assignor.)
Carbide and Carbon Chemicals Corporation. (See Ray, A. B., Doying, and Butkovsky, assignors.)
Carlson, Axel F., Cambridge, assignor to The Reece Button Hole Machine Company, Boston, Mass. Button-hole-sewing machine. 1,694,093; Dec. 4.
Carothers, John N., and C. F. Booth, Anniston, assignors to Federal Phosphorus Company, Birmingham, Ala. Production of sodium bisulphate. 1,693,947; Dec. 4.
Carson, Joseph F. (See Spinelle, Michael B., assignor.)
Carter, John J., Lansing, Mich., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Making commutators. 1,693,997; Dec. 4.
Case, J. I., Plow Works, Inc. (See Everett, Charles E., assignor.)
Caterpillar Tractor Co. (See Grotts, Fred, assignor.)
Caterpillar Tractor Co. (See Turnbull, William, assignor.)
Caton, Eugene. (See Caton, H. and E., and Howard.)
Caton, Herschel, Kansas City, E. Caton, Rosedale, Kans., and L. C. Howard, assignors to Caton Printing Company, Kansas City, Mo. Slip sheeting and means for practicing the same. 1,693,886; Dec. 4.
Caton Printing Company. (See Caton, H. and E., and Howard, assignors.)
Catron, Frederick O., assignor of one-half to N. P. Catron, Memphis, Tenn. Air cleaner. 1,694,116; Dec. 4.
Catron, Nettie P. (See Catron, Frederick O., assignor.)
Catudal, Frederic N., Newton, Iowa. Lawn-edging implement. 1,693,808; Dec. 4.
Chain Belt Company. (See Merwin, John C., assignor.)
Champ Electrical Company. (See Chandler, Daniel, L., assignor.)
Chandler, Daniel L., assignor to Champ Electrical Company, Boston, Mass. Time-controlled electric switch. 1,693,635; Dec. 4.
Chatillon, George E., assignor to John Chatillon & Sons, New York, N. Y. Display device. 1,693,501; Dec. 4.
Chatillon, John, & Sons. (See Chatillon, George E., assignor.)
Cheatham Electric Switching Device Co. (See Robinson, Robert M., assignor.)
Cheetham, Harold C. (See Redman, L. V., and Cheetham.)
Chicago Electric Manufacturing Co. (See Gough, James J., assignor.)
Chipman, Ralph N., Plainfield, N. J. Weed killer and method of killing weeds. 1,694,205; Dec. 4.
Christensen, Niels A., Milwaukee, Wis. Vehicle brake mechanism. 1,693,887; Dec. 4.
Chryst, William A., assignor to The Dayton Engineering Laboratories Company, Dayton, Ohio. Electric switch. 1,693,908; Dec. 4.
Clark, Frederick E., Albert Park, Victoria, assignor to F. I. Schilling, Brighton Beach, Victoria, Australia. Piston ring. 1,694,311; Dec. 4.
Clark, James H., Miami, Fla. Bitt. 1,694,312; Dec. 4.
Clark, Nolan I., Beggs, Okla. Check valve for water-circulating systems. 1,693,888; Dec. 4.
Clarkson, William B., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic device. 1,694,250; Dec. 4.
Clay-Adams Co. (See Risch, Oskar, assignor.)
Clements, Wellington I., Norfolk, Va. Sailor's dress blouse. 1,694,206; Dec. 4.
Clemm, Hans, assignor to Zellstofffabrik Waldhof, Mannheim-Waldhof, Germany. Filling boilers for cellulose with sulphite solution. 1,693,999; Dec. 4.
Cleveland Rock Drill Company, The. (See Richardson, Led L., assignor.)
Clune, J. W., Co. (See Lowe, Edward L., assignor.)





Clutter, Bird C., Akron, Ohio, assignor, by mesne assignments, to Clutter-Wagner, Inc. Power shovel or excavator. 1,693,809; Dec. 4.
Clutter-Wagner, Inc. (See Clutter, Bird C., assignor.)
Coe, John P., Yonkers, N. Y., assignor to G & J Tire Company, Indianapolis, Ind. Making inner tubes. 1,693,636; Dec. 4.
Coe, John P., Detroit, Mich., assignor to G & J Tire Company, Indianapolis, Ind. Apparatus for manufacturing inner tubes. 1,693,637; Dec. 4.
Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Automatic top-lift grading and distributing machine. 1,693,638; Dec. 4.
Colbiornsen, Thorvald C., Antonito, Colo. Automatically-actuated brush for grainer pipes. 1,693,689; Dec. 4.
Cole, Charles F., Huntington, W. Va. Boiler stand. 1,694,000; Dec. 4.
Cole, Robert M., Sandusky, Ohio. Making triphenylmethane dyes. 1,694,057; Dec. 4.
Coleman, Bert, Plattsmouth, Nebr. Display rack. 1,694,207; Dec. 4.
Combustion Engineering Corporation. (See Van Brunt, John, assignor.)
Compagnie des Forges et Acieries de la Marine et d'Homecourt. (See Granat, Elie, assignor.)
Company Elektrizitätswerk Lonza, The. (See Lüscher, Emil, assignor.)
Conally, Henry, Company. (See Warner, William F., jr., assignor.)
Connecticut Electric Manufacturing Company, The. (See Both, Tonjes A., assignor.)
Connor, James F., Renova, Pa. Combination brush, knife, and roller. 1,693,745; Dec. 4.
Continental Optical Corporation. (See Gamble, John D., assignor.)
Continental Products Corporation. (See Fabbrin, Frank, assignor.)
Cook, Floyd J., Medford, Oreg. Assorting machine. Re-17,149; Dec. 4.
Cook, Stanley S. (See Parsons, C. A., and Cook.)
Cook, William E. (See Benford, George, assignor.)
Coon, Chester C., Oakland, Calif. Mechanical hand. 1,694,058; Dec. 4.
Corbin, Francis D., assignor of three-eighths to The Llanelly Foundry & Engineering Company Limited and one-third to Richard Nevill & Company Limited, Llanelly, Carmarthen, South Wales, Great Britain. Roll for rolling metals and making same. 1,694,251; Dec. 4.
Corcoran, Lewis L., Allentown, Pa., assignor to International Motor Company, New York, N. Y. Motor-vehicle bus-window-operating mechanism. 1,693,690; Dec. 4.
Cordier, André. (See Brault, F., and Cordier.)
Cordley, Henry G., New York, N. Y., and G. R. Long, Waterbury, Conn. Safety attachment for faucets. 1,693,975; Dec. 4.
Cory, Chas., & Son, Incorporated. (See ONeal, L. E., and Mead, assignors.)
Coullie, Jean G. G., and J. L. Cadis, Bordeaux, France. Fishplate. 1,693,775; Dec. 4.
Covey, John E., assignor to Swift & Company, Chicago, Ill. Smoke box. 1,694,163; Dec. 4.
Crimmel, Alvie C., Hartford City, Ind. Dispensing display stand. 1,693,592; Dec. 4.
Crossley, Frank, assignor to J. E. Plant, Cleveland, Ohio. Magnesium compound and producing the same. 1,694,341; Dec. 4.
Crosthwait, David N., jr., assignor to C. A. Dunham Company, Marshalltown, Iowa. Method and apparatus for setting thermostats. 1,694,164; Dec. 4.
Cullen, Harry J. (See Symonds, H. D., and Cullen.)
Cunnington, George R., Akron, assignor to The Paine-Cunnington Company, Cleveland, Ohio. Shield for vehicle brakes. 1,694,033; Dec. 4.
Currier, Hiram D., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Coil. 1,693,837; Dec. 4.
Cutler-Hammer Mfg. Co., The. (See Stoekle, Erwin R., assignor.)
Cutting, Charles D., Detroit, Mich. Universal joint. 1,693,593; Dec. 4.
Cutting, Charles D., Detroit, Mich. Universal joint. 1,693,594; Dec. 4.
Dalbey, George E., East Berlin, and T. P. Hanford, Berlin, assignors to The Stanley Chemical Company, East Berlin, Conn. Treating impure lead and lead alloys. 1,693,639; Dec. 4.
Dalbey, George E., East Berlin, and T. P. Hanford, Berlin, asisgnors to The Stanley Chemical Company, East Berlin, Conn. Treating impure lead. 1,693,640; Dec. 4.
Dalbey, George E., East Berlin, and T. P. Hanford, Berlin, assignors to The Stanley Chemical Company, East Berlin, Conn. Treating mixtures containing alkali salts of certain metals. 1,693,641; Dec. 4.
Dalbey, George E., East Berlin, and T. P. Hanford, Berlin, assignors to The Stanley Chemical Company, East Berlin, Conn. Treating metallic particles. 1,693,642; Dec. 4.
Dalton, William, Glenville, N. Y. Railway roadbed. 1,694,313; Dec. 4.
Dana, Duncan, Marblehead, Mass. Heating system. 1,694,001; Dec. 4.
Daniels Health Table Company. (See Daniels, M., and Wood, assignors.)
Daniels, Melville, and A. J. Wood, assignors to Daniels Health Table Company, Grand Rapids, Mich. Neuropathic health table. 1,693,810; Dec. 4.
D'Ardenne, Walter H., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Machine for making automobile doors. 1,693,643; Dec. 4.
Darley, William S. (See Weldon, William B., assignor.)
Davidson, Joseph G., Yonkers, N. Y., assignor to Carbide and Carbon Chemicals Corporation. Compositions containing cellulose derivatives. 1,693,746; Dec. 4.
Davidson, Leo R., and H. F. Rahl, Sturgis, Mich. Ball cock. 1,693,691; Dec. 4.
Davies, Albert W., assignor to Mavor & Coulson, Limited, Glasgow, Scotland. Rotary engine and the like. 1,694,208; Dec. 4.
Davis, Archibald H., Lincoln, Nebr. Sash or store-front construction. 1,694,002; Dec. 4.
Davis, Archibald H., Lincoln, Nebr. Sash, door, or store-front construction. 1,694,003; Dec. 4.
Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. 1,693,770; Dec. 4.
Davis, Harry E., Jersey City, N. J. Device for spraying hydrocarbon fuel. 1,694,209; Dec. 4.
Davis, Mansell A., Waukegan, Ill. Bed-bottom fabric. 1,694,094; Dec. 4.
Davis, William E., et al. (See Long, Wilber L., assignor.)
Dawson, Arthur T., and G. T. Buckham, Westminster, London, assignors to Vickers Limited, London, England. Gun mounting and traveling carriage therefor. 1,693,692; Dec. 4.
Dawson, Clarence N. (See Dawson, Isaac L., C. N., and R. W.)
Dawson, Isaac L., C. N., and R. W., Lawrence, Kans. Grain shocker. 1,693,595; Dec. 4.
Dawson, Raymond W. (See Dawson, Isaac L., C. N., and R. W.)
Dayton Engineering Laboratories, The. (See Chryst, William A., assignor.)
Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)
Debacher, Robert R., New York, N. Y. Ball for pails and the like. 1,694,165; Dec. 4.
De Bethune, Gaston, Brussels, Belgium. Apparatus for the manufacture of pig iron. 1,693,916; Dec. 4.
Deckel, Friedrich, Präzisionsmechanik und Maschinenbau. (See Braren, Lorenz K., assignor.)
Decker, Edward P., New York, N. Y. Drier. 1,693,747; Dec. 4.
Delco-Remy Corporation. (See Baker, Russell W., assignor.)
Delco-Remy Corporation. (See Carter, John J., assignor.)
Delco-Remy Corporation. (See Elsey, George W., assignor.)
Delco-Remy Corporation. (See Fitzsimmons, John T., assignor.)
Delco-Remy Corporation. (See Henry, Howard W., assignor.)
Delco-Remy Corporation. (See Hunt, John H., assignor.)
Dennison Manufacturing Company. (See McNally, William J., assignor.)
Denny, Levi P., Berkeley, Calif. Hour glass. 1,694,059; Dec. 4.
Detroit Aircraft Engine Corporation. (See Angle, Glenn D., assignor.)
De Vilbiss Company, The. (See Mueller, Godfrey A., assignor.)
Dexter, Carl J., La Fayette, Ind. Building-block mold. 1,693,693; Dec. 4.
Diamant, Nicholas, assignor to Jamestown Car Parts Mfg. Co., Inc., Jamestown, N. Y. Radiator. 1,694,004; Dec. 4.
Dick, Talbert M., Des Moines, Iowa. Golf-bag support. 1,693,889; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,058; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,059; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,060; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,061; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,062; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,063; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,064; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,065; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,066; Dec. 4.
Dieck, Henry W., Brooklyn, assignor to The Standard Textile Products Company, New York, N. Y. Oilcloth. Des. 77,067; Dec. 4.
Dietzgen, Eugene, Company. (See Price, Elmer E., assignor.)
Dishmaker, Anton, Kewaunee, Wis. Clipper. 1,693,707; Dec. 4.

Dixson, Harry, assignor to Rolscreen Company, Pella, Iowa. Guide track for screen construction. 1,694,314; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,068; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,069; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,070; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,071; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,072; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,073; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,074; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,075; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,076; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,077; Dec. 4.
Dlouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Curtain rod. Des. 77,078; Dec. 4.
Doane, Charles F., Salem, Oreg. Wrapping cheese. 1,693,694; Dec. 4.
Dobson, William A., Bridgeport, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,693,708; Dec. 4.
Dodge, Milton L., Newburyport, Mass. Mechanism for making turn shoes. 1,693,976; Dec. 4.
Doepke, William, Selah, Wash. Ditcher. 1,694,252; Dec. 4.
Doering, Charles, Chicago, Ill. Beverage-dispensing cabinet. Des. 77,079; Dec. 4.
Dolan, Bernard A., Brookline, assignor to Tuttle Silver Company, Boston, Mass. Plate or similar article. Des. 77,080; Dec. 4.
Dörr, Edward. (See Leuchs, O., and Dörr.)
Doty, William W., Great Kills, N. Y. Car-door-moving mechanism. 1,694,166; Dec. 4.
Douglas, Harry A., Bronson, Mich. Instrument-board lamp. 1,693,596; Dec. 4.
Doying, Ernest G. (See Ray, A. B., Doying, and Bu'kovsky.)
Dräger, Alexander B. (See Schröder, Hans W. C., assignor.)
Dräger, Elfriede, née Stange, executrix. (See Schröder, Hans W. C.)
Draper Corporation. (See Davis, Harry A., assignor.)
Draper Corporation. (See Stimpson, Wallace I., assignor.)
Driver-Harris Company. (See Sammon, Joseph, assignor.)
Dubilier Condenser Corporation. (See Dubilier, William, assignor.)
Dubilier Condenser Corporation. (See Vawter, Charles E., assignor.)
Dubilier, William, New Rochelle, assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical resistance. 1,694,167; Dec. 4.
Duclaux, Jacques, Paris, France. Ultrafilter membrane. 1,693,890; Dec. 4.
Du Moulin, Eleanor G., New York, N. Y. Foot rest. 1,694,095; Dec. 4.
Dunand, Ernest L., London, England. Screen for telephones or the like. 1,693,709; Dec. 4.
Duncan, Charles R., Detroit, Mich. Automobile accessory. 1,694,060; Dec. 4.
Dunham, C. A., Company. (See Crosthwait, David N., jr., assignor.)
Dunker, Vincent J., Ste. Genevieve, Mo. Photographic printer. 1,693,891; Dec. 4.
Dunlop, William F., New York, N. Y. Arch support. 1,694,315; Dec. 4.
Duquenne, Camille, Paris, France. Pulverulent-fuel furnace. 1,693,597; Dec. 4.
Dusa, Olive V., Gladstone, Oreg. Screen-door attachment. 1,694,168; Dec. 4.
Dziuk, Edmund, Detroit, Mich. Combination post card and letter. 1,693,811; Dec. 4.
Eastman Kodak Company. (See Wellman, Howard C., assignor.)
Eckdahl, Werner P., Chicago, Ill. Wet process for manufacturing cement. 1,693,644; Dec. 4.
Edgar, John, assignor to Barber-Colman Company, Rockford, Ill. Workholder. 1,694,034; Dec. 4.
Edmiston, Boyd, and H. T. Kinney, Punxsutawney, Pa. Bottle. Des. 77,081; Dec. 4.
Edwards, James M., assignor to Iowa Dairy Separator Company, Waterloo, Iowa. Oiling indicator. 1,693,812; Dec. 4.
Edwards, William S. (See St. Clair, Moffat, assignor.)
Efcolite Corporation. (See von Nessen, Walter, assignor.)
Egan, George F., Jersey City, N. J. Sewer construction. 1,693,977; Dec. 4.
Egan, George F., Jersey City, N. J. Sewer construction. 1,693,978; Dec. 4.
Ehrmann, Friedrich, Stuttgart-Feuerbach, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Casting apparatus. 1,694,118; Dec. 4.
Eichwede, Heinz, Hochst-on-the-Main, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuffs and preparing the same. 1,694,117; Dec. 4.
Eilers, Henry K., Plainfield, N. J., assignor to Pyramid Iron Products Corporation. Grate bar. 1,693,710; Dec. 4.
Eisenstein, Alfred, Schreckenstein, near Aussig-on-the-Elbe, Czechoslovakia, assignor of one-half to Georg Schicht A.-G., Aussig-on-the-Elbe. Manufacture of linoleum covering material. 1,693,917; Dec. 4.
Electroil Syndicate. (See Booth, William K., assignor.)
Electrolux Servel Corporation. (See von Platen, B. C., and Munters, assignors.)
Electro Manufacturing Company of America. (See Ginder, William H., assignor.)
Electro-Tel-It Manufacturing Company. (See Gage, Jay, assignor.)
Ellis, Zachary T., Duncan, Okla. Knockdown tank. 1,693,695; Dec. 4.
Elrod, Henry E., Santa Monica, Calif. Direction indicator. 1,693,918; Dec. 4.
Elsey, George W., Anderson, Ind., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Machine for testing shock absorbers. 1,694,005; Dec. 4.
Embry, L. D., et al. (See Le Bus, John E., assignor.)
Enderick, Winfield S. (See Flegel, W. J., and Enderick.)
Engbrecht, Herman J., assignor to Standard Oil Company, Chicago, Ill. Grease-charging apparatus. 1,694,096; Dec. 4.
Engelbrektson, Olof, Bogen, Sweden. Structure for drying wood. 1,693,777; Dec. 4.
Engman, Louis, Moline, Ill. Grinding tool. 1,693,778; Dec. 4.
Equipment Specialties Co. (See Hull, George A., assignor.)
Erlinger, N. T. (See Louis, Charles J., assignor.)
Evans Auto Loading Co. Inc., The. (See Evans, Edward S., assignor.)
Evans Auto Loading Co. Inc., The. (See Snyder, Clifford L., assignor.)
Evans, Edward S., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Composition chock block. 1,694,316; Dec. 4.
Everett, Charles E., Longford, Kans., assignor, by mesne assignments, to J. I. Case Plow Works, Inc. Tractor guide. 1,694,210; Dec. 4.
Ezell, Marion. (See Benedict, George W., assignor.)
Fabbrin, Frank, Tallman, assignor to Continental Products Corporation, New York, N. Y. Umbrella rib and spreader structure and producing the same. 1,693,948; Dec. 4.
Fahrney, Emery H., Chicago, Ill. Combined reverse and reduction gear. 1,693,645; Dec. 4.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air purifier. 1,693,646; Dec. 4.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Air purifier. 1,693,647; Dec. 4.
Faudi, Fritz, Duesseldorf-Oberkassel, Germany. Making shafts, connecting rods, and the like. 1,693,838; Dec. 4.
Faudi, Fritz, Duesseldorf-Oberkassel, Germany. Jointing tubular members. 1,693,839; Dec. 4.
Faudi, Fritz, Dusseldorf-Oberkassel, Germany. Ball-and-socket joint. 1,693,840; Dec. 4.
Faultless Caster Company. (See Noelting, William H., assignor.)
Federal Phosphorus Company. (See Carothers, J. N., and Booth, assignors.)
Federal Telephone Manufacturing Corporation. (See Horle, Lawrence C. F., assignor.)
Fernandez, Eugenio, Valparaiso, Chile. Oven. 1,694,211; Dec. 4.
Ferree, Clarence E. and G. R., Bryn Mawr, Pa. Perimeter. 1,693,979; Dec. 4.
Ferree, Gertrude R. (See Ferree, Clarence E. and G. R.)
Flegel, William J., and W. S. Enderick, assignors to Bohn Aluminum and Brass Corporation, Detroit, Mich. Making ball-and-socket joints. 1,693,748; Dec. 4.
Fifth Avenue Coach Company. (See Forrester, Michael J., assignor.)
Firestone Tire and Rubber Company, The. (See Stevens, Horace D., assignor.)
Firma Hannovera-Kassen-Gesellschaft m. b. H. (See Schubode, Albert, assignor.)
Fischer, Albert C., Chicago, Ill. Expansion joint. 1,694,212; Dec. 4.
Fischer, Albert C., Chicago, Ill. Combined expansion and contraction joint—semi-hexagonal type. 1,694,213; Dec. 4.
Fisk Rubber Company, The. (See Lehman, Paul W., assignor.)
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, assignor.)
Fitz Harris, Leo J., Brooklyn, assignor, by mesne assignments, to Franklin Simon & Co. Inc., New York, N. Y. Shoe. Des. 77,082; Dec. 4.
Fitzsimmons, John T., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Instrument panel. 1,694,006; Dec. 4.
Fleuron, Inc. (See Kobbé, William H., assignor.)
Floorola Corporation, The, et al. (See Gillis, Lyle N., assignor.)
Floorola Corporation, The, et al. (See Marshall, Thomas A., assignor.)
Fogle West Undertaking Company. (See Muckleroy, William B., assignor.)
Fontana, Frank, San Francisco, Calif. Clock face. Des. 77,083; Dec. 4.



Forrester, Michael J., Astoria, N. Y., assignor to Fifth Avenue Coach Company. Double-deck passenger vehicle. 1,694,007; Dec. 4.
Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Regulating system. 1,694,253; Dec. 4.
Fort Pitt Bedding Company. (See Trimble, Charles P., assignor.)
Fox, Thomas W., Cincinnati, Ohio. Monument. Des. 77,084; Dec. 4.
Frank, Jacob, assignor to The Frank Tea & Spice Company, Cincinnati, Ohio. Can. 1,694,119; Dec. 4.
Frank Tea & Spice Company, The. (See Frank, Jacob, assignor.)
Franke, Fritz, Berlin, Germany. Swimming bladder. 1,693,779; Dec. 4.
Franklin, Charles B., Springfield, Mass., assignor to Indian Motorcycle Company. Generator assembly for motorcycle engines. 1,693,696; Dec. 4.
Franklin Railway Supply Company. (See Roberts, Montague H., assignor.)
Franklin Simon & Co. Inc. (See Fitz Harris, Leo J., assignor.)
Fraser, George H., Brooklyn, N. Y. Drive and driven device. 1,694,008; Dec. 4.
Frederickson, Otto A., Weathersfield, assignor to The Wiremold Company, Hartford, Conn. Circular loom. 1,694,254; Dec. 4.
Friedrich, Albert, and R. O. Powell, San Antonio, Tex. Electric lamp. Des. 77,085; Dec. 4.
Friendly, Herbert M., Chicago, Ill. Call register for telephone systems. 1,694,169; Dec. 4.
Friendly, Herbert M., Portland, Oreg. Telephone system. 1,694,170; Dec. 4.
Fritz, Emil F. L., Chicago, Ill. Puzzle. 1,693,711; Dec. 4.
Fuchs, Nicholas P., jr., Akron, Ohio. Station indicator for radio sets. 1,693,892; Dec. 4.
Fugmann, Rudolf. (See Brecht, E., and Fugmann.)
Fulton Company, The. (See Henderson, Robert M., assignor.)
Furber, Frederick M., Revere, Mass. Temperature-controlling apparatus for internal-combustion engines. 1,694,171; Dec. 4.
G & J Tire Company. (See Coe, John P., assignor.)
Gage, Jay, Los Angeles, Calif., assignor to Electro-Tel-It Manufacturing Company. Automatic intermittent exhibiting device. 1,693,803; Dec. 4.
Gale, Clarence W., Beatrice, Nebr. Show case. 1,693,980; Dec. 4.
Gale, Laburton A., Belmont, Mass., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Reenforcing device for sides of perforations. 1,693,648; Dec. 4.
Gallison, Ernest A. (See Mudge, R. C., and Gallison.)
Galliowitz, Gustave A., assignor to The Kny-Scheerer Corporation of America, New York, N. Y. Adjustable wheel stretcher. 1,694,172; Dec. 4.
Gamble Brothers, Inc. (See Jones, Richard C., assignor.)
Gamble, John D., assignor to Continental Optical Corporation, Indianapolis, Ind. Polishing pad for lenses and making same. 1,693,598; Dec. 4.
Garlick, Edward, Kelso, Wash. Sand washer and separator. 1,694,255; Dec. 4.
Garrison, Herman, Chicago, Ill. Can opener. 1,693,894; Dec. 4.
Gaylord, George S., Menasha, assignor, by mesne assignments, to Marathon Paper Mills Company, Rothschild, Wis. Double-receptacle carton. 1,693,841; Dec. 4.
Gebel, Michael E., Armour, S. Dak. Electric soldering carbon. 1,694,256; Dec. 4.
Geier, P. A., Company, The. (See Martinet, Eugene F., assignor.)
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Booth, Ralph E., assignor.)
General Electric Company. (See Byk, Alfred, assignor.)
General Electric Company. (See Byles, Frank A., assignor.)
General Electric Company. (See Clarkson, William B., assignor.)
General Electric Company. (See Forsberg, Peter W., assignor.)
General Electric Company. (See Grünholz, Hans, assignor.)
General Electric Company. (See Guedon, Emile C., assignor.)
General Electric Company. (See Hilliard, John D., assignor.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Hull, John I., assignor.)
General Electric Company. (See Inman, George E., assignor.)
General Electric Company. (See Jump, George H., assignor.)
General Electric Company. (See Krämer, Christian, assignor.)
General Electric Company. (See Murphy, E. J., and Hutt, assignors.)
General Electric Company. (See Prince, David C., assignor.)
General Electric Company. (See Rankin, William K., assignor.)
General Electric Company. (See Simonds, Dewey T., assignor.)
General Electric Company. (See Sohlberg, Erik G., assignor.)
General Electric Company. (See Sywert, Philip T., assignor.)
General Electric Company. (See Walle, Ludvig S., assignor.)
General Electric Company. (See Weiler, Wilhelm, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches. (See Mayer, Emil, assignor.)
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissner, Alexander, assignor.)
Geyer, Harvey D., assignor to The Inland Manufacturing Company, Dayton, Ohio. Oscillating joint. 1,693,981; Dec. 4.
Gillespie, Bee K., Los Angeles, Calif. Apparatus for cleaning and polishing automobiles. 1,694,120; Dec. 4.
Gillings, Charles, Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,693,599; Dec. 4.
Gillis, Lyle N., Rose Crest, Va., assignor of one-half to The Floorola Corporation and one-half to E. J. Newcomer, Baltimore, Md. Brush holder for floor polishers. 1,693,919; Dec. 4.
Ginder, William H., Haddonfield, N. J., assignor, by mesne assignments, to Electro Manufacturing Company of America. Portable fan. 1,694,214; Dec. 4.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glomstead, Edwin E, and J. A. Williamson, Neenah, Wis., assignors, by mesne assignments, to International Cellucotton Products Co., Chicago, Ill. Machine for making absorbent rolls. 1,693,749; Dec. 4.
Goetsch, George W., Elkins Park, assignor to Quaker Hosiery Company, Philadelphia, Pa. Stocking. Des. 77,086; Dec. 4.
Goetsch, George W., Elkins Park, assignor to Quaker Hosiery Company, Philadelphia, Pa. Stocking. Des. 77,143; Dec. 4.
Goldberg, Maximilian M., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. Auditing machine. 1,694,009; Dec. 4.
Goldwyn, Walter M. (See Kellner, E., and Goldwyn.)
Golembiewski, Boleslaw, Utica, N. Y. Sled runner for automobiles. 1,694,215; Dec. 4.
Good, Samuel, Newton, Kans. Electric fan. 1,694,317; Dec. 4.
Goodman, Barney, Chicago, Ill. Draft regulator. 1,693,813; Dec. 4.
Goodman, Barney, Chicago, Ill. Draft regulator. 1,693,814; Dec. 4.
Goranson, Joseph O., Seattle, Wash. Warehouse tool. 1,694,173; Dec. 4.
Gordon, Aaron. (See Lipman, C. B., and Gordon.)
Gorham Mfg. Co. (See Magnussen, Erik, assignor.)
Gough, James J., assignor to Chicago Electric Manufacturing Co., Chicago, Ill. Electric switch. 1,694,216; Dec. 4.
Graham Glass Company, The. (See Bramble, Jesse, assignor.)
Granat, Elie, assignor of one-half to Compagnie des Forges et Acieries de la Marine et d'Homecourt, Paris, France. Electric distant control device. 1,694,121; Dec. 4.
Grant, William F., Newport News, Va., assignor to Newport News Shipbuilding and Dry Dock Company. Oil and water control for hydraulic-turbine bearings. 1,693,600; Dec. 4.
Grasselli Chemical Company, The. (See Taylor, Edward A., assignor.)
Grasselli Dyestuff Corporation. (See Brode, J., and Johannsen, assignors.)
Grasselli Dyestuff Corporation. (See Eichwede, Heinz, assignor.)
Greeley, Ella T., Whitman, Mass. Radiator ornament. Des. 77,087; Dec. 4.
Greeley, Ella T., Whitman, Mass. Radiator ornament. Des. 77,088; Dec. 4.
Greenwood, Raymond C., assignor to American Road Machinery Company, Inc., Kennett Square, Pa. Snowplow. 1,694,174; Dec. 4.
Griffiths, Alfred, Rock Ferry, assignor to Kleenglas Limited, London, England. Washing, drying, and polishing tumblers, cups, and like articles. 1,693,780; Dec. 4.
Grimes, Lester A., Montclair, assignor to Grimes Sprinkler Company, Inc., Newark, N. J. Alarm check valve. 1,693,842; Dec. 4.
Grimes Sprinkler Company. (See Grimes, Lester A., assignor.)
Grimm, Fred I., Beaver, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Support for nailing strips and the like. 1,693,949; Dec. 4.
Griswold Manufacturing Company, The. (See Hollands, John C., assignor.)
Groehn, Otto J., Grosse Pointe Park, assignor to Hudson Motor Car Company, Detroit, Mich. Panel joint for automobile bodies and making the same. 1,693,750; Dec. 4.
Groove Lock Co. Inc. (See Leberman, Harry, assignor.)
Gross, Harry, Brooklyn, N. Y. Cellar drainer. 1,694,199; Dec. 4.
Grossman, Herman P., Boonville, Ind., assignor to International Harvester Company, Chicago, Ill. Corn shredder and husker. Re17,152; Dec. 4.

Grotts, Fred, Peoria, Ill., assignor, by mesne assignments, to Caterpillar Tractor Co. Track-link connection. 1,694,035; Dec. 4.

Groves, Frank A., Dayton, Ohio. Shoe-shining apparatus. 1,693,601; Dec. 4.

Grünholz, Hans, Charlottenburg, Germany, assignor to General Electric Company. Electric induction apparatus. 1,694,318; Dec. 4.

Guedon, Emile C., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing sound. 1,694,319; Dec. 4.

Hafner, Wilhelm, Saarbrucken, Germany. Composition of matter for use in honing razors and other knives. 1,693,697; Dec. 4.

Hagemann, Louis F., Niagara Falls, N. Y., assignor to American Sales Book Company, Limited, Toronto, Ontario, Canada. Autographic register. 1,693,982; Dec. 4.

Hagopian, Serpoobie, San Francisco, Calif. Dust or dirt removing apparatus. 1,694,257; Dec. 4.

Hale, Samuel B., Buckley, Ill. Mail-box post. 1,693,698; Dec. 4.

Hall, Guy H., Jackson Heights, N. Y. Combined plow and soil pulverizer. 1,693,895; Dec. 4.

Hamer, Gus M., et al. (See Le Bus, John E., assignor.)

Hammond, John H., jr., Gloucester, Mass. Shutter-control mechanism for musical instruments. 1,693,751; Dec. 4.

Hammond, John H., jr., Gloucester, Mass. Organ control. 1,693,752; Dec. 4.

Hanford, Thomas P. (See Dalbey, G. E., and Hanford.)

Hangleiter, Carl, Mannheim-Woldhof, and A. Schneider, Kelheim-on-the-Danube, assignors to the firm: Zellstoffabrik Waldhof, Mannheim-Waldhof, Germany. Apparatus for boiling cellulose. 1,693,983; Dec. 4.

Hansen, Klaus L., Milwaukee, Wis. Dynamo-electric machine. 1,694,062; Dec. 4.

Hansen, Klaus L., and W. J. Oesterlein, Milwaukee, Wis. Self-starting induction motor. 1,694,061; Dec. 4.

Hanson, Bengt M. W., deceased, Hartford, Conn.; E. A. Hanson, executor. Machine for grinding gears. 1,693,781; Dec. 4.

Hanson, Einar A., executor. (See Hanson, Bengt M. W.)

Hanson, Hans P., Chicago, Ill. Flowerpot holder. 1,693,896; Dec. 4.

Harrigan, Harold W., Medford, assignor to Hersey Manufacturing Company, South Boston, Mass. Method of and apparatus for treating starch. 1,693,649; Dec. 4.

Harris, Leo J. F. (See Fitz Harris, Leo J.)

Hart, Frederick A., New Britain, Conn., assignor to Remington Accounting Machine Corporation, New York, N. Y. Computing machine. 1,693,753; Dec. 4.

Hart, William C., New York, N. Y. Printer's inking roller and method of protecting journal supports of same. 1,694,217; Dec. 4.

Harter, Isaac, Dongan Hills, N. Y., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Steam boiler. 1,693,602; Dec. 4.

Hartmann, William C., Cleveland, Ohio. Adjustable caster. 1,693,920; Dec. 4.

Hartong, Robert C., assignor to Seiberling Rubber Company, Akron, Ohio. Manufacturing imitation leather. 1,694,258; Dec. 4.

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,693,921; Dec. 4.

Hasselkus, William E. B., Jamaica, assignor to International Motor Company, New York, N. Y. Seat. 1,693,782; Dec. 4.

Hasselkus, William E. B., Jamaica, assignor to International Motor Company, New York, N. Y. Seat. 1,693,783; Dec. 4.

Hauser, George D., assignor to Utica Products, Inc., Utica, N. Y. Portable electric heater. 1,693,950; Dec. 4.

Hauser, George D., assignor to Utica Products, Inc., Utica, N. Y. Portable electric heater. 1,694,175; Dec. 4.

Hazard, George E., assignor to Kellogg Manufacturing Co., Rochester, N. Y. Air-compressing mechanism. 1,694,218; Dec. 4.

Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Antifriction air-spring assembly. 1,693,603; Dec. 4.

Heany Laboratories, Inc. (See Heany, John A., assignor.)

Hebig, Henry C., Hoffmans, N. J., assignor to H. H. Boyce, Jericho, N. Y. Spherical heat indicator for automotive internal-combustion engines. 1,693,984; Dec. 4.

Hecht, Leo., New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Dish or article of analogous nature. Des. 77,089; Dec. 4.

Hecht, Leo, New York, N. Y., assignor to Sun Rise Lamp Mfg. Co., Inc. Lantern body or article of analogous nature. Des. 77,090; Dec. 4.

Heldrich, Andrew, New Brunswick, N. J., assignor to American Incubator Manufacturing Co., Inc. Burner wick. 1,693,604; Dec. 4.

Henderson, James B., Blackheath, England. Gun mounting. 1,693,712; Dec. 4.

Henderson, Louis S., Philadelphia, Pa. Rug or similar article. Des. 77,091; Dec. 4.

Henderson, Robert M., assignor to The Fulton Company, West Allis, Wis. Accelerator. 1,693,897; Dec. 4.

Hennessey, Vincent D., Milwaukee, Wis. Combination mixing valve. 1,693,758; Dec. 4.

Henry, Howard W., Bloomfield, N. J., assignor, by mesne assignments, to Delco-Remy Corporation, Dayton, Ohio. Signaling device. 1,694,010; Dec. 4.

Henry, Nelson B., Atlanta, Ga. Cotton separator. 1,693,754; Dec. 4.

Hercules Powder Company. (See Jenks, George E., assignor.)

Herd, William G., Drumheller, Alberta, Canada. Luggage carrier for automobiles. 1,693,922; Dec. 4.

Herman, Raymond L., New York, and G. F. Schmidt, Roslyn, N. Y. Attachment for bending machines. 1,693,951; Dec. 4.

Herrenbruck, Herman, assignor to Orbon Stove Co., Belleville, Ill. Stove. 1,694,176; Dec. 4.

Hersey Manufacturing Company. (See Harrigan, Harold W., assignor.)

Hess, Arthur J., assignor to E. Holley, Detroit, Mich. Coating for molds. 1,693,923; Dec. 4.

Hewetson, Henry H., Elizabeth, N. J., assignor to Standard Oil Development Company. Distilling petroleum. 1,694,259; Dec. 4.

Hewitt, Harold S., Brantford, Ontario, Canada. Ornament for radiators of motor cars. Des. 77,092; Dec. 4.

Heywood-Wakefield Company. (See McElligott, Edward R., assignor.)

Hibbert, Ernest, assignor to Hibbert Pneumatic Cell Tyre Company Limited, Goulbourn, New South Wales, Australia. Manufacturing of tyres for motor vehicles. 1,694,260; Dec. 4.

Hibbert Pneumatic Cell Tyre Company Limited. (See Hibbert, Ernest, assignor.)

Hiers, Glen S. (See Adams, R., and Hiers.)

Hillebrandt, Johan E., West Brighton, N. Y. Musical instrument. 1,693,924; Dec. 4.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,694,261; Dec. 4.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,694,320; Dec. 4.

Hindahl, David. (See Morey, W. E., and Hindahl.)

Hinde, Henry J., assignor to The Toledo Machine & Tool Company, Toledo, Ohio. Shaft-control means for drawing and stamping presses. 1,694,063; Dec. 4.

Hoe, R., and Co. (See Zuckerman, Adolph M., assignor.)

Hollands, John C., assignor to The Griswold Manufacturing Company, Erie, Pa. Electric cooking stove. 1,693,784; Dec. 4.

Holle, Edward E., Arlington, N. J. Machine for slicing cheese. 1,693,605; Dec. 4.

Holley, Earl. (See Hess, Arthur J., assignor.)

Holm, Anton. (See Richardson, H., and Holm.)

Holt, Donald, Chicago, Ill. Lighting fixture and the like. 1,693,925; Dec. 4.

Hopkins, Marion B., Elizabeth, and H. E. Buc, Roselle, N. J., assignors to Standard Oil Development Company. Cellulose-nitrate solution. 1,694,097; Dec. 4.

Horle, Lawrence C. F., Newark, N. J., assignor to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Amplification system. 1,693,898; Dec. 4.

Horle, Lawrence C. F., Newark, N. J., assignor, by mesne assignments, to Federal Telephone Manufacturing Corporation, Buffalo, N. Y. Grid leak. 1,693,899; Dec. 4.

Horn, Sigmund, and M. Zipkes, New York, N. Y. Aeroplane. 1,694,177; Dec. 4.

Horsfall, Ronald S., and L. G. Lawrie, assignors to British Dyestuffs Corporation Limited, Blackley, Manchester, England. Protection of animal fibers against the effects of alkaline or acid mediums. 1,693,926; Dec. 4.

Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Hinge strap or similar article. Des. 77,093; Dec. 4.

Horton, Clement E., New York, N. Y., assignor to McKinney Manufacturing Company, Pittsburgh, Pa. Hinge strap or similar article. Des. 77,094; Dec. 4.

Hose, Walter R., New Ulm, Minn. Dirigible headlight. 1,693,900; Dec. 4.

Hosford, John L., Boonville, Mo. Gear-shifting-lever lock and ignition-switch-actuating mechanism. 1,694,011; Dec. 4.

Hotz, John P., assignor of one-half to M. A. Wood, Boston, Mass. Tire-chain tool. 1,693,755; Dec. 4.

Howard, Frank A., Elizabeth, N. J., assignor to Standard Oil Development Company. Converting hydrocarbons into lower-boiling products. 1,694,262; Dec. 4.

Howard, Lloyd C. (See Caton, H. and E., and Howard.)

Howe, Chester C., New Kensington, assignor, by mesne assignments, to F. R. Alter, Parnassus, Pa. Washing machine. 1,693,785; Dec. 4.

Howell, J. H., et al. (See Le Bus, John E., assignor.)

Howson, Charles T., asaignor to Huntley Manufacturing Co., Silver Creek, N. Y. Cherry-pitting machine. 1,694,263; Dec. 4.

Hudson Heating Systems, Inc. (See Hudson, Walter E., assignor.)

Hudson Motor Car Company. (See Groehn, Otto J., assignor.)

Hudson, Walter E., Amagansett, assignor to Hudson Heating Systems, Inc., New York, N. Y. Heating unit. 1,694,178; Dec. 4.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Temperature regulator. 1,694,264; Dec. 4.

Hull, George A., assignor to Equipment Specialties Co., Chicago, Ill. Refrigerator car. 1,693,815; Dec. 4.





Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Speed-control system. 1,694,321; Dec. 4.

Hull, John I., Schenectady, N. Y., assignor to General Electric Company. Speed-control system. 1,694,322; Dec. 4.

Hunt, John H., Detroit, Mich., assignor to Delco-Remy Corporation, Dayton, Ohio. Lighting and ignition system. 1,693,985; Dec. 4.

Huntley Manufacturing Co. (See Howson, Charles T., assignor.)

Hurxthal, Alpheus O., assignor to Proctor & Schwartz, Incorporated, Philadelphia, Pa. Toaster. Des. 77,095; Dec. 4.

Hutchens, Edward, Milwaukee, Wis. Washer-setter spout. 1,693,901; Dec. 4.

Hutt, Leonard P. (See Murphy, E. J., and Hutt.)

I. G. Farbenindustrie Aktiengesellschaft. (See Jantsch, G., and Wolski, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Leuchs, O., and Dörr, assignors.)

Imperial Tobacco Co., The. (See Milligan, W., and Palmer, assignors.)

Indian Motorcycle Company. (See Franklin, Charles B., assignor.)

Inland Manufacturing Company, The. (See Geyer, Harvey D., assignor.)

Inman, George E., East Cleveland, Ohio, assignor to General Electric Company. Method and apparatus for treating filaments. 1,694,265; Dec. 4.

International Cellucotton Products Co. (See Glomstead, E. E., and Williamson, assignors.)

International Combustion Engineering Corporation. (See Rosencrants, Fay H., assignors.)

International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)

International Harvester Company. (See Grossman, Herman P., assignor.)

International Motor Company. (See Corcoran, Lewis L., assignor.)

International Motor Company. (See Hasselkus, William E. B., assignor.)

International Motor Company. (See McCall, G., and Reid, assignors.)

International Motor Company. (See Wilson, Raymond C., assignor.)

International Screw Company. (See Arenz, John A., assignor.)

Iowa Dairy Separator Company. (See Edwards, James M., assignor.)

Isaachsen, Isak, assignor to Aktienselskapet Krysal, Oslo, Norway. Crystallization of solid substances in a coarse granular form from solutions. 1,693,786; Dec. 4.

Jackson, Lloyd E., and H. E. Wassell, Pittsburgh, Pa., assignors to Mundatechnical Products Company, Detroit, Mich. Mothproofing substance and preparing it. 1,694,219; Dec. 4.

Jaeger, Alphons O., Crafton, Pa., assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Purification of crude anthracene. 1,693,713; Dec. 4.

Jaeger, Alphons O., assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of organic compounds. 1,694,122; Dec. 4.

Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Contact sulphuric-acid process. 1,694,123; Dec. 4.

Jaeger, Alphons O., Crafton, assignor to The Selden Company, Pittsburgh, Pa. Purification of benzoic acid and its derivatives. 1,694,124; Dec. 4.

Jaeger, Max, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Glass-blowing machine. 1,693,843; Dec. 4.

Jaffe, Joseph L., and R. J. Monroe, assignors to The Perfecite Company, Cleveland, Ohio. Lighting fixture. Des. 77,096; Dec. 4.

Jamestown Car Parts Mfg. Co. (See Diamant, Nicholas, assignor.)

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 77,097; Dec. 4.

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Impact sections for a vehicle bumper. Des. 77,101; Dec. 4.

Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 77,100; Dec. 4.

Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Mask plate for vehicle bumpers. Des. 77,098; Dec. 4.

Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate for vehicle bumpers. Des. 77,099; Dec. 4.

Jantsch, Gustav, Bonn-on-the-Rhine, and P. Wolski, Wiesdorf-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort, Germany. Producing lithopone fast to light. 1,693,902; Dec. 4.

Jencick, Stephen, Chagrin Falls, Ohio. Flexible coupling. 1,694,064; Dec. 4.

Jenkins, Charles F., Washington, D. C. Duplex radiomachine. 1,694,065; Dec. 4.

Jenkins, Charles F., Washington, D. C. Reversing-propeller throttle control. 1,694,220; Dec. 4.

Jenks, George E., Bacchus, Utah, assignor to Hercules Powder Company, Wilmington, Del. Refining wood rosin. 1,694,179; Dec. 4.

Johannsen, Adolf. (See Brode, J., and Johannsen.)

Johansson, Ernest G., Boston, assignor, by mesne assignments, to The Palmer Electric & Manufacturing Co., Waltham, Mass. Safety switch. 1,693,952; Dec. 4.

Johnson, Carl S., Butte, Mont. Chair. 1,694,018; Dec. 4.

Johnson, Charles W., Seattle, Wash. Burner head for oil-burner plants. 1,694,012; Dec. 4.

Johnson, George D. (See Paddack, S. D., and Wilford, assignors.)

Johnson, John E., and C. H. Oslund, assignors to The O. & J. Machine Company, Worcester, Mass. Milk-bottle cap. 1,693,787; Dec. 4.

Johnson, Noah, and L. H. Strasser, St. Louis, Mo. Grain door for box cars. 1,694,180; Dec. 4.

Johnston, Vernon O., Lincoln, Ill. Method and apparatus for making road edgings. 1,693,903; Dec. 4.

Jones, Daphne S., administratrix. (See Jones, Richard C.)

Jones & Laughlin Steel Corporation. (See Grimm, Fred I., assignor.)

Jones, Richard C., deceased, by D. S. Jones, administratrix, assignor to Gamble Brothers, Inc., Louisville, Ky. Gluing machine. 1,693,606; Dec. 4.

Jopson, William G., assignor to C. A. Reed Company, Williamsport, Pa. Decorative wreath. 1,694,125; Dec. 4.

Jordan, Leonard A., New Glasgow, Nova Scotia, Canada. Fox ranch. 1,693,756; Dec. 4.

Joslin, Frank M., Amsterdam, N. Y. Making collapsible boxes. 1,694,126; Dec. 4.

Judd, H. L., Company. (See Diouhy, August, assignor.)

Jump, George H., Buffalo, N. Y., assignor to General Electric Company. Heating control system. 1,694,323; Dec. 4.

Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Lock for ignition and lighting switches. 1,693,844; Dec. 4.

Kaplan, Louis, Astoria, N. Y. Reenforced hosiery and producing same. 1,694,324; Dec. 4.

Kaplon, Abraham I., Brunswick, Md. Braking device for vehicles. 1,694,181; Dec. 4.

Kaptuller, Alexander F., Chicago, Ill. Machine for expressing juice from fruit, chopping meat, etc. 1,693,757; Dec. 4.

Karitzky, John, assignor, by mesne assignments, to Henry B. Newhall Corporation, Garwood, N. J. Nail expansion. 1,694,266; Dec. 4.

Kaspar Getreideschälmaschine G. m. b. H. (See Kaspar, Leopold, assignor.)

Kaspar, Leopold, Olmutz/Mähren, Czechoslovakia, assignor to Kaspar Getreideschälmaschine G. m. b. H., Offenbach-on-the-Main, Germany. Machine for husking, podding, brushing, or treating grain. 1,693,953; Dec. 4.

Keall, Frank R. (See Barclay, W. R., and Keall.)

Keller Mechanical Engineering Corporation. (See Shaw, John C. and R. D., assignors.)

Keller, William H., Inc. (See Shaff, Ernest H., assignor.)

Kellett, William P., Brantford, Ontario, Canada. Freight-transporting equipment. 1,693,607; Dec. 4.

Kelley, J. Maurice. (See Plunkett, Michael R., assignor.)

Kellner, Edward, and W. M. Goldwyn, New York, N. Y. Removable dental bridgework. 1,693,845; Dec. 4.

Kellogg Manufacturing Co. (See Hazard, George E., assignor.)

Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)

Kellogg Switchboard and Supply Company. (See Currier, Hiram D., assignor.)

Kellogg Switchboard and Supply Company. (See Kaisling, William, assignor.)

Kellogg Switchboard and Supply Company. (See Stazak, Michael B., assignor.)

Kendall, William G., Newark, N. J. Cosmetic-pad holder. 1,694,325; Dec. 4.

Kimmick, Rudolph, Ramah, Colo. Steam-boiler furnace. 1,694,014; Dec. 4.

King, Dee M., Canton, Tex. Ice saw. 1,694,221; Dec. 4.

King, Emory A., Corydon, Iowa. Trailer. 1,694,267; Dec. 4.

Kinney, Henry T. (See Edmiston, B., and Kinney.)

Klausner, Edward S., Owego, N. Y. Fitting-up bolt device. 1,694,326; Dec. 4.

Kleenglas Limited. (See Griffiths, Alfred, assignor.)

Klein, Carl, Wichita, Kans. Truck. 1,694,342; Dec. 4.

Klein, Carl, Wichita, Kans. Truck. 1,694,343; Dec. 4.

Klingenberg, Herman, Fitchburg, Mass. Floor-brush attachment. 1,694,327; Dec. 4.

Kluge, Abel and E., assignors, by mesne assignments, to Brandtjen & Kluge, Incorporated, St. Paul, Minn. Feeding magazine for printing presses. 1,693,986; Dec. 4.

Kluge, Abel and E., assignors to Brandtjen and Kluge, Inc., St. Paul, Minn. Stock-feeding magazine for printing presses. 1,694,015; Dec. 4.

Kluge, Eneval. (See Kluge, Abel and E.)

Knapp, Archer L., assignor to Packard Motor Car Company, Detroit, Mich. Automobile radiator. Des. 77,102; Dec. 4.

Knott, Harry H., Washington, Iowa. Chuck-positioning device and drill guide for drilling machines. 1,693,904; Dec. 4.

Kny-Scheerer Corporation of America, The. (See Gallowitz, Gustave A., assignor.)

Kobbé, William H., New York, assignor to Fleuron, Inc., North Tonawanda, N. Y. Sulphur-silica composition. 1,693,714; Dec. 4.

Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Hardened plaster product. 1,693,715; Dec. 4.

Kobbé, William H., New York, N. Y., assignor to Texas Gulf Sulphur Company, Bay City, Tex. Plaster board and the like. 1,693,716; Dec. 4.

Koch, Lydia B., New York, N. Y., assignor to Reinforced Paper Bottle Corporation, Chicago, Ill. Bottle. Des. 77,103; Dec. 4.

Koelbel, Joseph J., Baldwin, N. Y. Loader. 1,694,344; Dec. 4.

Koelkebeck, Carl W. A., Pittsburgh, Pa. Method of and apparatus for the manufacture of structural shapes. 1,693,987; Dec. 4.

Kohler, John F., Larchmont Manor, N. Y. Removing shells from nuts. 1,694,182; Dec. 4.

Kovacs, Frank, Akron, Ohio, assignor to Selberling Rubber Company. Tire. Des. 77,104; Dec. 4.

Kovacs, Frank, Akron, Ohio, asignor to Selberling Rubber Company. Tire. Des. 77,105; Dec. 4.

Kraeft, Herman L., assignor to Murray Ohio Manufacturing Company, Cleveland, Ohio. Juvenile vehicle. 1,694,183; Dec. 4.

Krah & Kirchhoff. (See Müller, Richard, assignor.)

Krämer, Christian, Pankow, Germany, assignor to General Electric Company. Mercury rectifier. 1,694,328; Dec. 4.

Kramer, William J., St. Louis, Mo. Automobile traffic signal. 1,694,184; Dec. 4.

Kraus, Charles A., and C. Callis, Worcester, Mass., assignors to Standard Oil Development Company. Preparing alkyl compounds of lead. 1,694,268; Dec. 4.

Krebsbach, Alois J., St. Cloud, Minn. Silo sealer. 1,694,016; Dec. 4.

Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Attachment of face plates. 1,693,846; Dec. 4.

Kroll, Walter, Berlin, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk, Siemensstadt, near Berlin, Germany. Telephone system. 1,693,927; Dec. 4.

Kuert, Ira J., Los Angeles, Calif. Adjustable and interchangeable form for hollow wall construction. 1,694,036; Dec. 4.

Kuert, Ira J., Los Angeles, Calif. Concrete form, method of molding a concrete wall, and wall. 1,694,037; Dec. 4.

Kuhn, Frederick X., Waltham, assignor to Kuhn Ice Cream Machinery Co., Boston, Mass. Ice-cream-packaging machine., 1,693,988; Dec. 4.

Kuhn Ice Cream Machinery Co. (See Kuhn, Frederick X., assignor.)

Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Cap for ground members. 1,693,848; Dec. 4.

Labombarde, Harold S., Nashua, N. H. Machine for feeding blanks. 1,693,928; Dec. 4.

Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)

Ladd, John W., Co. (See Williams, Henry B., assignor.)

Lagaard, Alexander S. T., Minneapolis, Minn. Cabinet for a coin-controlled game apparatus. Des. 77,106; Dec. 4.

Lampert, Henry H., Chicago, Ill. Bar support and spacer. 1,694,066; Dec. 4.

Lang, Franz, Munich, Germany, assignor to Acro Aktiengesellschaft, Knessnacht-on-the-Rigi. Switzerland. Internal-combustion engine. 1,694,269; Dec. 4.

Langhammer, Paul. (See Smith, E. L., Phelon, and Langhammer.)

Langmack, Roy E., Minneapolis, Minn. Lubricating mechanism. 1,693,788; Dec. 4.

Lardy, Guillaume, Feage de Roussillon, assignor to Societe pour la Fabrication de la Soie "Rhodiaseta," Paris, France. Production of artificial yarns or threads. 1,693,759; Dec. 4.

Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Elastic metal stringing and making the same. 1,694,360; Dec. 4.

Latham, Albert, deceased, Beverly; J. W. Nourbourn, administrator, Somerville, Mass., assignor to American Button & Fastener Co., Augusta, Me. Supplying apparatus. 1,693,650; Dec. 4.

Lauper, John F., Hollandale, Wis. Safety switch. 1,694,270; Dec. 4.

Laursen, Viggo. (See Tockar, Nicholas J., assignor.)

Lawrie, Leslie G. (See Horsfall, R. S., and Lawrie.)

Leberman, Harry, assignor to Groove Lock Co. Inc., New York, N. Y. Vanity case. 1,694,185; Dec. 4.

Le Blanc, Henri L., and H. Beaudoin, East Angus, Quebec, assignors of one-third to E. L. Lessard, Disraeli, Quebec, Canada. Signal device for automobiles. 1,694,345; Dec. 4.

Le Bus, George F., Electra, Tex. Combination tool for well-drilling operations. 1,693,789; Dec. 4.

Le Bus, John E., Electra, Tex., assignor of one-sixth to W. Caixert, one-sixth to J. H. Howell, one-sixth to L. D. Embry, one-sixth to G. M. Hamer, and one-sixth to A. L. Robb. Rotary pump. 1,694,329; Dec. 4.

Lee, Richard J., Marrero, La. Internal-combustion engine. 1,694,098; Dec. 4.

Lee, Worthy, Council Bluffs, Iowa. Machine for decorticating, scouring, and polishing cereals. 1,693,847; Dec. 4.

Lehman, Paul W., Wilkwaukee, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Inner-tube deflater. 1,694,222; Dec. 4.

Lemmon, George N., Marietta, assignor to Balt Manufacturing Co., Atlanta, Ga. Electric switch. 1,694,223; Dec. 4.

L'Enfant, Charles, New York, N. Y. Combination bill fold and pass case. 1,694,186; Dec. 4.

Lepler, Jacob, Providence, R. I. Clothes-pressing machine and the like. 1,694,224; Dec. 4.

Lessard, Ernest L. (See Le Blanc, H. L., and Beaudoin, assignor.)

Leuchs, Otto, Elberfeld, and E. Dorr, Elberfeld-Sonnborn, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of cellulose ethers. 1,694,127; Dec. 4.

Leveille, Joseph D., Westfield, Mass. Toweling cabinet. 1,693,905; Dec. 4.

Lévêque, Pierre H., Paris, assignor to Societe de Recherches et de Perfectionnements Industriels, Puteaux, Seine, France. Compound fuel. 1,693,790; Dec. 4.

Lewis, Robert B., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Testing instrument. 1,694,187; Dec. 4.

Lewis, Robert B., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Mechanism for preventing lost motion. 1,694,188; Dec. 4.

Lewis, William T., assignor to Western Coil & Electrical Co., Racine, Wis. Therapeutic lamp. 1,694,067; Dec. 4.

Libbey-Owens Sheet Glass Company, The. (See Randall, James W. H., assignor.)

Liberman, Alexander I., Boulogne, France. Combined back-fire and theft preventing device. 1,694,271; Dec. 4.

Liebermann, Harry A., Chicago Heights, Ill. Game. 1,694,068; Dec. 4.

Liebs, L. A., Company. (See Liebs, Louis A., assignor.)

Liebs, Louis A., Woodhaven, assignor to L. A. Liebs Company, Inc., New York, N. Y. Band envelope. 1,693,791; Dec. 4.

Lienesch, Charles F., Monrovia, assignor to C. L. Stokes, Los Angeles, Calif. Filtering mechanism. 1,693,717; Dec. 4.

Lindsay, Charles W., Houston, Tex. Single-trigger mechanism for double-barrel firearms. 1,693,929; Dec. 4.

Line Material Company. (See Kyle, William D., assignor.)

Lipman, Charles B., and A. Gordon, assignors to Regents of the University of California, Berkeley, Calif. Impregnating wood with substances toxic to animal and bacterial life and fungus growths. 1,693,930; Dec. 4.

Lippert, Samuel, Garfield Heights, assignor to The Outlook Manufacturing Company, Cleveland, Ohio. Electric switch. 1,693,608; Dec. 4.

Lippincott, Carl L., Newark, Ohio. Sheet-metal crate. 1,693,906; Dec. 4.

Livergood, Gerald R., Houston, Tex. Well-drilling apparatus. 1,693,609; Dec. 4.

Llanelly Foundry & Engineering Company Limited et al. (See Corbin, Francis D., assignor.)

Lloyd, Harold M., Los Angeles, Calif. Ready-built lamp post. 1,693,760; Dec. 4.

Lockett, Fred, Vancouver, British Columbia, Canada. Cattle guard. 1,694,128; Dec. 4.

Lombard Carbureter Company. (See Lombard, Nathaniel, assignor.)

Lombard, Fred, Santa Rosa, Calif. Extension for fly swatters. 1,694,069; Dec. 4.

Lombard, Nathaniel, assignor to Lombard Carbureter Company, Worcester, Mass. Carburetor. 1,693,792; Dec. 4.

Lombard, Nathaniel, assignor to Lombard Carbureter Company, Worcester, Mass. Carburetor. 1,693,793; Dec. 4.

Long, George R. (See Cordley, H. G., and Long.)

Long, Helene L., Spokane, Wash. Combined smoker's outfit and receptacle for game accessories. Des. 77,107; Dec. 4.

Long, Wilber L., assignor of one-fourth to W. P. Blake, one-fourth to W. T. Minor, one-eighth to W. E. Davis, and one-eighth to J. M. Wattenbarger, Kirksville, Mo. Air heater. 1,694,351; Dec. 4.

Loomis, Nathaniel E., Elizabeth, N. J., assignor to Standard Oil Development Company. Preparing hydrocarbon products. 1,694,272; Dec. 4.

Lord, Edwin C. E., Washington, D. C. Waterproofing compound and making the same. 1,693,718; Dec. 4.

Lorraine, David G., Los Angeles, Calif. Oil and gas separator. 1,693,849; Dec. 4.

Louis, Charles J., St. Louis, Mo., assignor of two-thirds to N. T. Erlinger, East St. Louis, Ill. Attachment for reshaping tubular members. 1,693,850; Dec. 4.

Low, Dave D., Mont Helena, Miss. Cultivator blade or sod scraper. 1,694,099; Dec. 4.

Lowe, Edward L., Palo Alto, assignor to J. W. Clune Co., Los Angeles, Calif. Burner and valvular control therefor. 1,693,931; Dec. 4.

Lowe, Edward L., Palo Alto, assignor to J. W. Clune Co., Los Angeles, Calif. Time control of fuel injection for internal-combustion engines. 1,693,932; Dec. 4.

Lundberg, Oscar, San Diego, Calif. Resistance switch. 1,694,330; Dec. 4.

Lüscher, Emil, Basel, assignor to The Company Elektrizitätswerk Lonza, Gampel and Basel, Switzerland. Manufacture of crotonaldehyde from acetaldehyde and aldol. 1,693,907; Dec. 4.





Lusher, Albert C., assignor to Scovill Manufacturing Co., Waterbury, Conn. Producing tubular articles. 1,693,610; Dec. 4.

Lyons, Harry C., Mount Vernon, N. Y. Fluid-measuring faucet. 1,693,719; Dec. 4.

Lyons, Harry C., Mount Vernon, N. Y. Measuring faucet. 1,693,720; Dec. 4.

Mabee, Charles R., Buffalo, N. Y., assignor to Mabee Patents Corporation, Dover, Del. Manufacture of livestock feeds. 1,693,611; Dec. 4.

Mabee, Charles R., Buffalo, N. Y., assignor to Mabee Patents Corporation, Dover, Del. Manufacture of livestock feeds. 1,693,612; Dec. 4.

Mabee Patents Corporation. (See Mabee, Charles R., assignor.)

MacLagan, Hector P., Oak Park, assignor to McIntosh Electrical Corporation, Chicago, Ill. Clock-controlled switch. 1,693,721; Dec. 4.

MacLeod, Daniel T., assignor to Perfex Corporation, Racine, Wis. Radiator. 1,694,352; Dec. 4.

Macripo, Domenic, Hazleton, Pa. Meat-cutting board. 1,693,761; Dec. 4.

Madsen, Hans C., Milwaukee, Wis. Toy jig saw. 1,694,070; Dec. 4.

Magnus, Philip, Leichhardt, near Sydney, New South Wales, Australia. Manufacture of artificial leather. 1,694,129; Dec. 4.

Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Plate or similar article. Des. 77,108; Dec. 4.

Magnussen, Erik, assignor to Gorham Mfg. Co., Providence, R. I. Bowl or similar article. Des. 77,109; Dec. 4.

Mallory, Charles M., Chattanooga, Tenn., assignor of one-half to E. C. Mallory, Indianapolis, Ind. Making molds. 1,694,130; Dec. 4.

Mallory, Earl C. (See Mallory, Charles M., assignor.)

Mallory, Harry C., deceased, New York, N. Y., S. R. Mallory, administratrix. Cooling system for aircraft engines. 1,694,071; Dec. 4.

Mallory, Sue R., administratrix. (See Mallory, Harry C.)

Manion, Cyrus R., Milwaukee, Wis. Flush valve. 1,694,072; Dec. 4.

Manning, Rodney W., Riverside, R. I. Tappet for valves. 1,693,651; Dec. 4.

Marathon Paper Mills Company. (See Gaylord, George S., assignor.)

Marcel, Francois R., Brooklyn, N. Y. Hair-waving device. 1,694,073; Dec. 4.

Marquart, Charles V., Sandusky, Ohio. Safety appliance for brake beams. 1,694,100; Dec. 4.

Marquette Manufacturing Company. (See Nordgren, Algot W., assignor.)

Marsh, Howard E., Lompoc, Calif. Tunneling machine. 1,693,954; Dec. 4.

Marshall, Thomas A., Hagerstown, assignor of one-half to The Floorola Corporation and one-half to E. J. Newcomer, Baltimore, Md. Wax distributor for floor-polishing machines. 1,693,908; Dec. 4.

Martel, Edgar J., Laconia, N. H. Locking device for automobiles. 1,693,762; Dec. 4.

Martin, Claude W., Gold Hill, Oreg. Registering apparatus. 1,694,763; Dec. 4.

Martin, Talbot G., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,693,613; Dec. 4.

Martinet, Eugene F., assignor to The P. A. Geier Company, Cleveland, Ohio. Suction cleaning apparatus. 1,694,273; Dec. 4.

Martone, Jeremiah, Waterbury, Conn. Attachment for grinding machines. 1,694,074; Dec. 4.

Mason, Hobart, Westfield, N. J. Elevator system. 1,693,851; Dec. 4.

Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-current transmission. 1,693,955; Dec. 4.

Matheson, Howard W., and J. C. Smith, Montreal, Quebec, Canada. Electrode. 1,693,794; Dec. 4.

Mathews, Fred. (See Strid, Sven J., assignor.)

Mayor & Coulson, Limited. (See Davies, Albert W., assignor.)

Mayer, Emil, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H. Hallesches, Berlin, Germany. Arrangement for use in telephony. 1,694,131; Dec. 4.

Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Inserting valves in annular tubes. 1,694,225; Dec. 4.

McCain, Albert B., Reward, Calif. Grip cage grab for deep-well pumps. 1,693,764; Dec. 4.

McCain, William J., Livingston, Ala. Air-circulating fireback. 1,693,614; Dec. 4.

McCall, George, Woodside, and J. E. Reid, assignors to International Motor Company, New York, N. Y. Container bogie. 1,693,700; Dec. 4.

McCleary Hydraulic Brake Company. (See Price, William G., assignor.)

McClure, William R., Chicago, Ill. Shoe fastener. 1,694,101; Dec. 4.

McConkey, Montgomery W., South Bend, Ind., assignor to Bendix Brake Company, Chicago, Ill. Brake control. 1,694,075; Dec. 4.

McCoy, Melvin W., Springfield, Ill. Jack for self-propelling vehicles. 1,694,076; Dec. 4.

McCuen, Frederick H. (See Sattler, D. S., and McCuen.)

McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Split-reduction device. 1,693,652; Dec. 4.

McDonald, Charles D., assignor to McDonald Machine Co., Chicago, Ill. Can-testing machine. 1,694,132; Dec. 4.

McDonald Machine Co. (See McDonald, Charles D., assignor.)

McDowall, Andrew, Castle Douglas, Scotland. Tractor. 1,694,226; Dec. 4.

McEldowney, Robert E., assignor to New Martinsville Glass Mfg. Co., New Martinsville, W. Va. Powder-puff box or similar article. Des. 77,110; Dec. 4.

McElligott, Edward R., Brookline, assignor to Heywood-Wakefield Company, Boston, Mass. Reed chair. Des. 77,111; Dec. 4.

McGill, Chester T., assignor to Reiter Co., Elgin, Ill. Gravity system for continuously treating boiler water. 1,694,331; Dec. 4.

McGill, Chester T., assignor to Reiter Company, Elgin, Ill. Base-exchange water softener, salt-pot attachment. 1,694,332; Dec. 4.

McGrane, James L., Buffalo, N. Y. Direction indicator. Des. 77,112; Dec. 4.

McHugh, Agnes J., executrix. (See McHugh, Edward T.)

McHugh, Edward T., deceased, by A. J. McHugh, executrix, Holyoke, Mass. Manhole cover. 1,694,133; Dec. 4.

McInnis, Walter J., Stelton, assignor to Widescope Camera Company, Newark, N. J. Panoramic motion-picture camera. 1,693,722; Dec. 4.

McIntosh Electrical Corporation. (See MacLagan, Hector P., assignor.)

McIntosh Electrical Corporation. (See Waggoner, Melancthon R., assignor.)

McJohn, Raymond J., Chicago, Ill. Ironing-board appliance. 1,693,615; Dec. 4.

McKean, John I., Parkersburg, W. Va., assignor to Standard Oil Development Company. Tug wheel. 1,694,274; Dec. 4.

McKinney Manufacturing Company. (See Horton, Clement E., assignor.)

McKown, Frederick W., Englewood, N. J., assignor to American Telephone and Telegraph Company. Battery supply circuit. 1,693,653; Dec. 4.

McMenemy, Logan T., Chicago, Ill. Automobile lubrication indicator. 1,694,102; Dec. 4.

McMullen, John, Buffalo, N. Y. Door opening and closing mechanism. 1,694,134; Dec. 4.

McNally, William J., assignor to Dennison Manufacturing Company, Framingham, Mass. Game counter and making the same. 1,694,103; Dec. 4.

McQuain, Thomas, Ocean Park, Calif. Concrete-molding machine. 1,693,852; Dec. 4.

McWane, Arthur T., Birmingham, Ala. Window guard. 1,693,853; Dec. 4.

Mead, Samuel N., jr. (See Oneal, L. E., and Mead.)

Mecilovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,113; Dec. 4.

Meissner, Alexander, assignor to Gesellschaft für Dratlose Telegraphie m. b. H., Berlin, Germany. Antenna for electric wave transmission. 1,694,135; Dec. 4.

Menschel, Reinhold, Berlin, Germany. Pump for atomizers. 1,694,104; Dec. 4.

Melvin, Bradford M. (See Schulthess, Clara, assignor.)

Merrick, Herbert L., Passaic, N. J. Recording means. 1,693,701; Dec. 4.

Merritt, G. C. (See Minott, Adair W., assignor.)

Merwin, John C., assignor to Chain Belt Company, Milwaukee, Wis. Sprocket chain. 1,694,275; Dec. 4.

Messenger Publishing Company. (See Burdett, Le Roy, assignor.)

Messimer, Ward N., Jersey Shore, Pa. Journal-length gauge. 1,694,333; Dec. 4.

Messler, Matie C., assignor to M. Messler, Providence, R. I. Arch-supporting device for boots and shoes. 1,694,353; Dec. 4.

Messler, Madge. (See Messler, Matie C., assignor.)

Metropolitan Lamp Co. (See Zweig, Joseph, assignor.)

Michelin, André J., Paris, assignor to Michelin et Cie., Clermont-Ferrand, France. Rim for penumatic tires. 1,693,909; Dec. 4.

Michelin et Cie. (See Michelin, André J., assignor.)

Michnievitch, Stanislav, Los Angeles, Calif. Organ. 1,693,933; Dec. 4.

Midgley, Thomas Hampden, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Splice-holding device for tire expander. 1,694,227; Dec. 4.

Miller, George C., Brookline, Mass. Combined shipping and display box. 1,694,017; Dec. 4.

Milligan William, and W. E. Palmer, Richmond, Va., assignors to The Imperial Tobacco Co., Great Britain and Ireland. Method of and apparatus for treating tobacco. 1,693,989; Dec. 4.

Millspaugh, William H., assignor to The Paper & Textile Machinery Co., Sandusky, Ohio. Water evacuator for drier drums. 1,693,934; Dec. 4.

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Mingus, Maude A., formerly M. A. M. Wheeler, Oakland, Calif. Hair dye. Re17,153; Dec. 4.

Minor, William T., et al. (See Long, Wilber L., assignor.)

Minott, Adair W., Ames, assignor of one-half to G. C. Merritt, Des Moines, Iowa. Electric fuse panel. 1,693,854; Dec. 4.

Miriach, George G., Beaver Dam, Wis. Mail box. 1,694,334; Dec. 4.

Mishawaka Rubber and Woolen Manufacturing Company. (See Bradley, C. E., and Van Dinter, assignors.)

Mitchell, Raymond C., Springfield, Ohio, assignor by mesne assignments, to Barber-Colman Company. Grinding machine. 1,693,723; Dec. 4.

Mock, James C., Detroit, Mich. Rail brace. 1,694,136; Dec. 4.

Möhrle, Arthur, assignor to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electrical condenser. 1,694,276; Dec. 4.

Molins, Walter E., and C. Best, London, England. Printing machinery. 1,694,038; Dec. 4.

Monroe Auto Equipment Mfg. Co. (See Myers, Don D., assignor.)

Monroe, Robert J. (See Jaffe, J. L., and Monroe.)

Moore, Arlington, New York, N. Y., assignor to Moore Inventions Corporation, Worcester, Mass. Multiple-ply sanitary metal can. 1,693,956; Dec. 4.

Moore, Charles A., Edina, Minn. Air-conditioning system. 1,693,855; Dec. 4.

Moore, Charles A., Edina, Minn. System for conditioning air in storage chambers. 1,693,856; Dec. 4.

Moore, Frank R., Grand Junction, Colo. Folding bed. 1,693,795; Dec. 4.

Moore Inventions Corporation. (See Moore, Arlington, assignor.)

Moore, William D., and W. Morgan, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y. Centrifugal casting machine (weighing mechanism). 1,693,654; Dec. 4.

Morey, William E., Chicago, and D. Hindahl, assignors to Rodger Ballast Car Co., Chicago, Ill. Dump-car construction. 1,694,077; Dec. 4.

Morgan, John R. (See Jandus, H. S., and Morgan.)

Morgan, Walter. (See Moore, W. D., and Morgan.)

Morris, Charles E., Leavenworth, Kans. Carrousel-driving mechanism. 1,693,724; Dec. 4.

Moser, Stuart, Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Storage tank for liquids. 1,693,857; Dec. 4.

Moss, Arline B. N., St. Louis, Mo., assignor to The National Society of the Daughters of the American Revolution, Washington, D. C. Statue. Des. 77,114; Dec. 4.

Mowry, Daniel P., Montreal, Quebec, Canada. Toothbrush. Des. 77,115; Dec. 4.

Moyer, Albert, New York, N. Y. Mixer. 1,694,137; Dec. 4.

Muckleroy, William B., assignor to Fogle West Undertaking Company, Honston, Tex. Burial-receptacle cover. Des. 77,116; Dec. 4.

Mudge, Raymond C., East Boston, and E. A. Gallison, Watertown, assignors to Bay State Fishing Company, Boston, Mass. Rotatable brush. 1,694,018; Dec. 4.

Mueller, Godfrey A., Point Place, assignor to The De Vilbiss Company, Toledo, Ohio. Spray gun. 1,694,078; Dec. 4.

Müller, Richard, Spandau, assignor to Krah & Kirchhoff, Berlin, Germany. Worm conveyer. 1,694,228; Dec. 4.

Mundatechnical Products Company. (See Jackson, L. E., and Wassell, assignors.)

Munters, Carl G. (See von Platen, B. C., and Munters.)

Murlin Manufacturing Company. (See Seidell, Alfred P., assignor.)

Murphy, Edwin J., and L. P. Hutt, Schenectady, N. Y., assignors to General Electric Company. Reproducing position. 1,694,277; Dec. 4.

Murphy, Everett N., assignor to Stevens Partition & Floor Deadener Co., Chicago, Ill. Floor construction. 1,693,655; Dec. 4.

Murray, L. S. (See Anderson, James B., assignor.)

Murray, George, and V. O. Simpkins, London, England. Automatically discharging liquids from chambers, automatic fountains, and the like devices. 1,694,335; Dec. 4.

Murray Ohio Manufacturing Company. (See Kraeft, Herman L., assignor.)

Myers, Don D., Toledo, Ohio, assignor to Monroe Auto Equipment Mfg. Co., Monroe, Mich. Pump base. 1,693,858; Dec. 4.

Nardone, Frank, Philadelphia, Pa. Accordion. 1,693,616; Dec. 4.

National Biscuit Company. (See Taylor, George A., assignor.)

National Cash Register Company, The. (See Goldberg, Maximilian M., assignor.)

National Graphite Lubrication Company. (See Watres, Lewis S., assignor.)

National Rubber Machinery Company. (See Weaver, Ralph J., assignor.)

National Society of the Daughters of the American Revolution, The. (See Moss, Arline B. N., assignor.)

Naylor, William K., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator structure. Re17,150; Dec. 4.

Nebel, Ernst O., Philadelphia, Pa. Stocking. Des. 77,117; Dec. 4.

Neidig, John R., Ollmont, Mont. Manicuring implement. 1,694,336; Dec. 4.

Nelles, Lafayette H., London, England. Rotary mixer. 1,693,935; Dec. 4.

Nelson, Claude A. (See Thomas, T. H., and Nelson.)

Nelson, Claude A., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train-control device. 1,693,656; Dec. 4.

Nelson, Emil A., Roseville, Mich., assignor to Budd Wheel Company, Philadelphia, Pa. Cover for tire-valve apertures. 1,693,589; Dec. 4.

Nelson, Herman, Corporation, The. (See Otis, Gerald E., assignor.)

Nelson, Martin L., Park Ridge, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Impulse-testing equipment. 1,693,725; Dec. 4.

Nestor, Joseph P., Lykens, Pa., assignor to Reiff & Nestor Company, Incorporated. Thread restorer. 1,694,229; Dec. 4.

Neuwirth, Herman, Brooklyn, assignor to Testrite Instrument Co., New York, N. Y. Hydrometer. 1,694,138; Dec. 4.

Nevill, Richard, & Company Limited, et al. (See Corbin, Francis D., assignor.)

Newcomer, Ernest J., et al. (See Gillis, Lyle N., assignor.)

Newcomer, Ernest J., et al. (See Marshall, Thomas A., assignor.)

Newhall, Henry B., Corporation. (See Karitzky, John, assignor.)

New Martinsville Glass Mfg. Co. (See McEldowney, Robert E., assignor.)

Newport News Shipbuilding and Dry Dock Company. (See Grant, William F., assignor.)

Nicholas, Wilbur H., Indianapolis, Ind. Sack holder. 1,694,079; Dec. 4.

Niebel, Godfrey, New York, N. Y. Electric bulb or similar article. Des. 77,118; Dec. 4.

Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Ball-bearing socket and friction band stem. 1,693,657; Dec. 4.

Noelting, William H., assignor to Faultless Caster Company, Evansville, Ind. Combination plate-caster socket and slide. 1,693,658; Dec. 4.

Nordigren, Algot W., St. Paul, Minn., assignor to Marquette Manufacturing Company. Coupling and steering device for automobiles. 1,694,278; Dec. 4.

Nourbourn, James W., administrator. (See Latham, Albert.)

Nyquist, Harry, Millburn, and K. W. Pfleger, Arlington, N. J., assignors to American Telephone and Telegraph Company. Echo suppressor. 1,693,659; Dec. 4.

O. & J. Machine Company, The. (See Johnson, J. E., and Oslund, assignors.)

Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Making battery nuts. 1,693,957; Dec. 4.

Obbard, Norman B., Pittsburgh, Pa. Truss. 1,693,660; Dec. 4.

Oberheim, Jacob, New York, N. Y. Safety razor. 1,694,337; Dec. 4.

O'Bryan, James W. (See O'Bryan, Kenneth C., and J. W.)

O'Bryan, Kenneth C. and J. W., Washington, D. C. Space-graduating mechanism for typewriters and the like. 1,693,796; Dec. 4.

O'Bryan, Kenneth C. and J. W., Washington, D. C. Graduating character spacing in a typewriter. 1,693,797; Dec. 4.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,693,816; Dec. 4.

Oesterlein, William J. (See Hansen, K. L., and Oesterlein.)

Ogden, Amos, Barrow-in-Furness, assignor to Vickers Limited, Westminster, England. Percussion and hydrostatic fuse. 1,693,661; Dec. 4.

Ohio Foundry and Manufacturing Co., The. (See Sharp, Alexander B., assignor.)

Ohl, Russell S., New York, N. Y., assignor to American Telephone and Telegraph Company. Radio signaling system. 1,693,662; Dec. 4.

Olshei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Operating motor-vehicle accessory motors. 1,694,279; Dec. 4.

Oliver, John R., Medfield, assignor to Reece Shoe Machinery Company, Boston, Mass. Press for cutting or punching sheet material. 1,693,726; Dec. 4.

Olson, Carl P., Battle Lake, Minn. Doorcheck. 1,693,860; Dec. 4.

Olsson, Ells, West Point, Va. Charging apparatus for pulp digesters. 1,694,139; Dec. 4.

Oneal, Lloyd E., East Orange, N. J., and S. N. Mead, jr., Brooklyn, assignors to Chas. Cory & Son, Incorporated, New York, N. Y. Signaling system and mechanism. 1,693,663; Dec. 4.

O'Neill, Walter I., New York, N. Y. Wrench. 1,694,140; Dec. 4.

Orbon Stove Co. (See Herrenbruck, Herman, assignor.)

Oslund, Charles H. (See Johnson, J. E., and Oslund.)

Oswald, Alfred E., Hackensack, N. J., assignor to Underwood Elliott Fisher Company, New York, N. Y. Electric motor. 1,693,617; Dec. 4.

Otis, Gerald E., assignor to The Herman Nelson Corporation, Moline, Ill. Radiator structure. 1,693,618; Dec. 4.

O'Toole, Edward, Gary, W. Va. Apparatus for cleaning Coal. 1,693,861; Dec. 4.

Otto, Albert T., & Sons. (See Spalding, John, assignor.)

Otto, August, Sauk Center, Minn. Sled attachment for motor vehicles. 1,693,862; Dec. 4.

Outlook Manufacturing Company, The. (See Lippert, Samuel, assignor.)

Package Machinery Company. (See Smith, E. L., and Phelon, assignors.)

Package Machinery Company. (See Smith E. L., Phelon, and Langhammer, assignors.)

Packard Motor Car Company. (See Knapp, Archer L., assignor.)





Packard Motor Car Company. (See Vincent, Jesse G., assignor.)

Paddack, Simon D., and C. G. Wilford, assignors, by mesne assignments, to G. D. Johnson, Los Angeles, Calif. Tail light and danger signal. 1,693,936; Dec. 4.

Paine-Cunnington Company, The. (See Cunnington, George R., assignor.)

Palmer Electric & Manufacturing Co., The. (See Johansson, Ernest G., assignor.)

Palmer, Wiley E. (See Milligan, W., and Palmer.)

Pape, Herman G., New York, N. Y. Acoustic diaphragm. 1,693,727; Dec. 4.

Paper & Textile Machinery Co., The. (See Millspaugh, William H., assignor.)

Parenteau, Louise. (See Stevens, J. P., and Bailey, assignors.)

Parsons, Charles A., and S. S. Cook, Newcastle-upon-Tyne, England; said Cook assignor to said Parsons. Elastic drive. 1,693,765; Dec. 4.

Pass & Seymour, Inc. (See Russell, Mark N., assignor.)

Patent Button Company, The. (See Purinton, Forrest G., assignor.)

Patrouilleau, Louis G., assignor to Societe Alumine et Derives, Paris, France. Manufacture of aluminous cement. 1,694,338; Dec. 4.

Patten, John S., Madison, N. J. Breather cover for tanks. 1,693,958; Dec. 4.

Patterson, Martin L., Bogota, N. J., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Safety stop for searchlights. 1,694,039; Dec. 4.

Pattillo, Helen W. (See Baker, G. L., and Pattillo.)

Payne, Ellen D., Brooklyn, N. Y. Eyebrow pencil. 1,693,990; Dec. 4.

Pearson, Nils A., Long Island City, N. Y. Automobile mirror. Des. 77,119; Dec. 4.

Perdue, Landon L., Chester, assignor to State Conservation and Development Commission on behalf of the Commonwealth of Virginia, Richmond, Va. Road sign. Des. 77,120; Dec. 4.

Perfeclite Company, The. (See Jaffe, J. L., and Monroe, assignors.)

Perfection Faucet Mfg. Corp. (See Schimmel, Lloyd G., assignor.)

Perfection Package Sealer Company. (See Uttz, William A., sr., assignor.)

Perfex Corporation. (See MacLeod, Daniel T., assignor.)

Perry, John E., Sharon, assignor to Valley Mould and Iron Corporation, Sharpsville, Pa. Core box for ingot molds. 1,694,105; Dec. 4.

Perry, William A., and G. D. Toy, Sidney, Ohio; said Toy assignor to said Perry. Earth-working apparatus. 1,693,991; Dec. 4.

Peterson, Gunnard P., assignor to The Risdon Manufacturing Company, Naugatuck, Conn. Automatic-machine work transferrer. 1,693,959; Dec. 4.

Peterson, Uno G., Salt Lake City, Utah. Hinge. 1,693,992; Dec. 4.

Petitjean, Clifford O., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Transfer mechanism for upsetting machines. 1,693,664; Dec. 4.

Pfeiffer, Charles G., assignor to Specialty Engineering Company, Philadelphia, Pa. Gravity chute. 1,694,019; Dec. 4.

Pfleger, Kenneth W. (See Nyquist, H., and Pfleger.)

Phelon, Arthur E. (See Smith, E. L., and Phelon.)

Phelon, Arthur E. (See Smith, E. L., Phelon, and Langhammer.)

Phelps, James W., Chicago, Ill. Electric receptacle. 1,694,141; Dec. 4.

Phelps, James W., Chicago, Ill. Electric flasher. 1,694,142; Dec. 4.

Phillips, Charles R. (See Smith, J. D., and Phillips.)

Phillips, John X., jr., Washington, D. C., assignor, by mesne assignments, to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,693,665; Dec. 4.

Pierce, Paul, Chicago, Ill. Printing attachment for wrapping machines. 1,693,864; Dec. 4.

Plant, James E. (See Crossley, Frank, assignor.)

Plunkett, Michael R., assignor of one-half to J. M. Kelley, Philadelphia, Pa. Heating system. 1,694,080; Dec. 4.

Potter, Thomas I., Portland, Oreg. Rotary expansion valve. 1,693,863; Dec. 4.

Powell, Raymond E., Houston, Tex., assignor to Standard Oil Development Company. Reclaiming distillation residues. 1,694,280; Dec. 4.

Powell, Roy O. (See Friedrich, A., and Powell.)

Price, Elmer E., assignor to Eugene Dietzgen Company, Chicago, Ill. Book. 1,693,865; Dec. 4.

Price, William E., White Plains, N. Y. Method and apparatus for making display signs, lamp shades, and other like articles. 1,693,817; Dec. 4.

Price, William G., Yakima, Wash., assignor to McCleary Hydraulic Brake Company. Hydraulic and band brake operating means. 1,694,020; Dec. 4.

Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. 1,694,281; Dec. 4.

Proctor & Schwartz, Incorporated. (See Hurxthal, Alpheus O., assignor.)

Purdy, Frederick L., Columbus, Ohio. Frame for buildings. Re17,154; Dec. 4.

Purinton, Forrest G., assignor to The Patent Button Company, Waterbury, Conn. Cleaning flexible foraminous sheets. 1,694,021; Dec. 4.





Putt, Earl B., New York, N. Y. Finely-divided phenolphthalein and making same. 1,693,666; Dec. 4.

Pym, Arthur F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoes. 1,693,667; Dec. 4.

Pyramid Iron Products Corporation. (See Ellers, Henry K., assignor.)

Quaker Hosiery Company. (See Goetsch, George W., assignor.)

Radio Corporation of America. (See Cady, Walter G., assignor.)

Radway, Samuel, West Frankfort, Ill. Boiler washer. 1,694,346; Dec. 4.

Rahe, Samuel E., Richmond Hill, N. Y. Machine for cutting match splints. 1,693,937; Dec. 4.

Rahe, Samuel E., Richmond Hill, N. Y. Machine for making match cards. 1,693,938; Dec. 4.

Rahl, Henry F. (See Davidson, L. R., and Rahl.)

Rainsford, Thomas F., Detroit, assignor to Whitehead and Kales, Inc., River Rouge, Mich. Material-feeding device. 1,693,728; Dec. 4.

Ramée, Charles E., New York, N. Y. Line clamp. 1,693,960; Dec. 4.

Randall, James W. H., New York, N. Y., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Laminated glass and producing the same. 1,693,729; Dec. 4.

Rankin, William K., Scotia, N. Y., assignor to General Electric Company. Electric switch. 1,694,282; Dec. 4.

Rappaport, Hermann, Brooklyn, N. Y. Making sweatbands. 1,694,230; Dec. 4.

Ray, Arthur B., Bayside, E. G. Boying, New York, N. Y., and J. J. Butkovsky, Elizabeth, N. J., assignors to Carbide and Carbon Chemicals Corporation. Making Activated carbon. 1,694,040; Dec. 4.

Rayfield, Charles L., assignor to Rayfield Manufacturing Company, Chicago, Ill. Nozzle for oil burners. 1,693,866; Dec. 4.

Rayfield Manufacturing Company. (See Rayfield, Charles L., assignor.)

Redman, Lawrence V., Caldwell, N. J., and H. C. Cheetham, Chicago, Ill., assignors to Bakelite Corporation, New York, N. Y. Impregnating solution. 1,693,939; Dec. 4.

Reece Button Hole Machine Company, The. (See Carlson, Axel F., assignor.)

Reece Shoe Machinery Company. (See Oliver, John R., assignor.)

Reed, C. A., Company. (See Jopson, William G., assignor.)

Reed, William E., Pittsburgh, Pa. Electric welding machine. 1,694,081; Dec. 4.

Reel Novelty Mfg. Co., The. (See Blessman, Charles, jr., assignor.)

Regents of the University of California. (See Lipman, C. B., and Gordon, assignors.)

Reid, James C., Lincoln, Nebr. Buffet table. 1,694,283; Dec. 4.

Reid, Josiah E. (See McCall, G., and Reid.)

Reiff & Nestor Company. (See Nestor, Joseph P., assignor.)

Reihlen, Hans, Karlsruhe, Baden, Germany, assignor to M. M. Adler, Newark, N. J. Detonating firework. 1,693,818; Dec. 4.

Reinforced Paper Bottle Corporation. (See Koch, Lydia B., assignor.)

Reinwald, Paul, San Francisco, Calif. Water shoe. 1,693,867; Dec. 4.

Reiter Company. (See McGill, Chester T., assignor.)

Remington Accounting Machine Corporation. (See Hart, Frederick A., assignor.)

Remington Rand Inc. (See Gale, Laburton A., assignor.)

Rendleman, John H., et al. (See Voss, George C., assignor.)

Reserve Holding Company. (See Ruggles, Leonard L., assignor.)

Richardson, Henry, and A. Holm, Passaic, N. J.; said Holm assignor to said Richardson. Method of and apparatus for generating thermodynamic energy. 1,693,910; Dec. 4.

Richardson, John K. (See Smith, Joseph D., assignor.)

Richardson, Led L., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Steel retainer for rock drills. 1,694,106; Dec. 4.

Richter, George A., assignor to Brown Company, Berlin, N. H. Making raw calcium-bisulphite digesting liquor. 1,694,231; Dec. 4.

Rider, Rowland W., Salt Lake City, Utah, assignor to Utah Royalty Corporation. Tire-deflation signal device. 1,694,232; Dec. 4.

Risch, Oskar, Jena, Germany, assignor to Clay-Adams Co., Inc., New York, N. Y. Hæmacytometer counting chamber. 1,693,961; Dec. 4.

Risdon Manufacturing Company, The. (See Peterson, Gunnard P., assignor.)

Ritter Dental Manufacturing Company. (See Wilford, Edward B., assignor.)

Rivanov, Felix, Chicago, Ill., assignor to The Anderson Company, Gary, Ind. Radiator-cap ornament. Des. 77,121; Dec. 4.

Rivanov, Felix, Chicago, Ill., assignor to The Anderson Company, Gary, Ind. Radiator cap ornament. Des. 77,122; Dec. 4.

Robb, A. L., et al. (See Le Bus, John E., assignor.)

Roberts, Montague H., Englewood, N. J., assignor to Franklin Railway Supply Company, New York, N. Y. Power reverse gear. 1,694,143; Dec. 4.

Robins Conveying Belt Company. (See Robins, Samuel D., assignor.)
Robins, Samuel D., Woodmere, N. Y., assignor to Robins Conveying Belt Company, Passaic, N. J. Screening apparatus. 1,693,940; Dec. 4.
Robinson, Ernest Y., Lymm, England, assignor, by mesne assignments, to Westinghouse Electric & Manufacturing Company. Rectification of alternating current. 1,693,668; Dec. 4.
Robinson, John W., Chicago, Ill. Syringe. 1,694,233; Dec. 4.
Robinson, Robert M., assignor to Cheatham Electric Switching Device Co., Incorporated, Louisville, Ky. Ground box. 1,693,868; Dec. 4.
Rodger Ballast Car Co. (See Morey, W. E., and Hindahl, assignors.)
Rogers, Victor B., Buffalo, N. Y. Cuff link. 1,693,993; Dec. 4.
Rohmer, Gabriel E., New York, N. Y. Diving apparatus for swimming pools. 1,693,669; Dec. 4.
Rollason, Charles H., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Shipping drum. 1,694,354; Dec. 4.
Rolscreen Company. (See Dixson, Harry, assignor.)
Ronk, George T., assignor to Speeder Machinery Corporation, Cedar Rapids, Iowa. Trailer for self-propelled vehicles. 1,693,869; Dec. 4.
Rosenblatt, Isidor, Brooklyn, N. Y. Chandelier. Des. 77,123; Dec. 4.
Rosenblatt, Isidor, Brooklyn, N. Y. Chandelier. Des. 77,124; Dec. 4.
Rosenblatt, Isidor, Brooklyn, N. Y. Wall bracket for lighting fixtures. Des. 77,125; Dec. 4.
Rosencrants, Fay H., Bushey, England, assignor to International Combustion Engineering Corporation. Furnace. 1,694,144; Dec. 4.
Rowley, Benjamin F., assignor of one-third to W. J. Allen and one-third to T. L. Bishop, Jackson, Tenn. Running-board saddle. 1,693,994; Dec. 4.
Royer Foundry & Machinery Company. (See Royer, George F., assignor.)
Royer, George F., assignor to Royer Foundry & Machine Company, Wilkes-Barre, Pa. Mechanical loading device. 1,694,145; Dec. 4.
Royer, George F., assignor to Royer Foundry & Machine Company, Wilkes-Barre, Pa. Machine for preparation of molder's sand. 1,694,355; Dec. 4.
Royer, George F., assignor to Royer Foundry & Machine Co., Wilkes-Barre, Pa. Sand collecting and treating machine. 1,694,356; Dec. 4.
Ruben, Samuel, New York, N. Y. Photosensitive cell. 1,694,189; Dec. 4.
Ruben, Samuel, New York, N. Y. Photo-electric cell. 1,694,190; Dec. 4.
Ruggles, Leonard L., Wheaton, Ill., assignor to Reserve Holding Company, Kansas City, Mo. Telephone system. 1,693,962; Dec. 4.
Russell, Mark N., Syracuse, assignor to Pass & Seymour, Inc., Solvay, N. Y. Wall fixture. Des. 77,126; Dec. 4.
Safety Grinding Wheel & Machine Company. (See Weinland, Hermon G., assignor.)
St. Clair, John C., Butte, Mont. Combined coal stoker and burner. 1,694,290; Dec. 4.
St. Clair, Moffat, Galt, Ontario, assignor of one-half to W. S. Edwards, Toronto, Canada. Oil burner. 1,693,623; Dec. 4.
St. Louis Butchers' & Hotel Supply Co. (See Siebert, Alfred H., assignor.)
Salesas, Carmelo, Guantanamo, Cuba. Electric-wire support. 1,693,670; Dec. 4.
Sammon, Joseph, Kearny, assignor to Driver-Harris Company, Harrison, N. J. Roller rail for heat-treating furnaces. 1,693,870; Dec. 4.
Sand Spun Patents Corporation. (See Moore, W. D., and Morgan, assignors.)
Sandford, Dent, Toledo, Ohio. Noiseless check valve. 1,693,619; Dec. 4.
Santa Ana, Max, Huntington Park, Calif. Electric hammer. 1,694,284; Dec. 4.
Sattler, Dennis S., and F. H. McCuen, Chicago, Ill. Footstool and leg rest. 1,694,146; Dec. 4.
Saxton, Frank S., Blissfield, Mich. Easel stand. Des. 77,127; Dec. 4.
Scalf, William D., Pineville, Ky. Cash-fare manipulator. 1,694,285; Dec. 4.
Schaeren, Ernst, Bern, Switzerland, assignor, by mesne assignments, to Busch-Sulzer Bros.-Diesel Engine Co., St. Louis, Mo. High-pressure crude-oil motor. 1,693,963; Dec. 4.
Schaffer, Henry J., assignor to J. Schaffer, Brooklyn, N. Y. Container. 1,693,819; Dec. 4.
Schaffer, Jacob. (See Schaffer, Henry J., assignor.)
Schalk, Jacob R., Rhinebeck, N. Y. Marine rail stanchion. Des. 77,128; Dec. 4.
Schenk, Frederick W., New York, N. Y. Clock frame. Des. 77,129; Dec. 4.
Scheuer, Max G. (See Switzer, Maurice, assignor.)
Schicht, Georg, A.-G. (See Eisenstein, Alfred, assignor.)
Schilling, Frances I. (See Clark, Frederick E., assignor.)
Schimmel, Lloyd G., Los Angeles, Calif., assignor to Perfection Faucet Mfg. Corp. Faucet and making same. 1,694,234; Dec. 4.
Schmeer, Jakob, Washington, D. C. Shoe. 1,693,911; Dec. 4.
Schmid, John J., Louisville, Ky. Amusement device. 1,693,798; Dec. 4.
Schmidt, Gustav F. (See Herman, R. L., and Schmidt.)
Schmidt, Karl, Neuruppin, Germany. Portable liquid fire extinguisher. 1,693,671; Dec. 4.
Schneider, Adolf. (See Hangleiter, C., and Schneider.)
Schneider, Joseph N. (See Budwig, M., and Schneider.)
Schneider, Samuel A., Washington, D. C. Garment hanger. 1,693,871; Dec. 4.
Schnormeier, Paul H., Hubbard, Iowa. Illuminated-sign flashing mechanism. 1,693,820; Dec. 4.
Schoenfelder, Alfred, Chicago, Ill. Soap dish. 1,694,235; Dec. 4.
Schröder, Hans W. C., assignor to A. B. Dräger, Lubeck, Germany; E. Dräger, née Stange, executrix of said Dräger, deceased. Breathing apparatus particularly for administering anæsthetics. 1693,730; Dec. 4.
Schroeder, Charles J., Minonk, Ill. Electric light. 1,693,672; Dec. 4.
Schroeder, Simon E., Newton, Ind. Wringer. 1,693,821; Dec. 4.
Schubode, Albert, Brunswick, assignor to Firma Hannovera-Kassen-Gesellschaft m. b. H., Peine, Hanover, Germany. Calculating machine. 1,693,766; Dec. 4.
Schulthess, Clara, assignor of one-half to B. M. Melvin, San Francisco, Calif. Iron stand. 1,694,236; Dec. 4.
Schuster, Karl R., Hopatcong, N. J. Building construction. 1,693,941; Dec. 4.
Scofield, Lillian E., New York, N. Y. Combined corset and brassière. 1,693,799; Dec. 4.
Scovill Manufacturing Co. (See Lusher, Albert C., assignor.)
Seiberling Rubber Company. (See Hartong, Robert C., assignor.)
Seiberling Rubber Company. (See Kovacs, Frank, assignor.)
Seidell, Alfred P., Bloomfield, N. J., assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. Des. 77,130; Dec. 4.
Selden Company, The. (See Jaeger, Alphons O., assignor.)
Selden Research & Engineering Corporation, The. (See Jaeger, Alphons O., assignor.)
Sether, Just H., Jackson, Mich. Wagon-tractor hitch. 1,693,673; Dec. 4.
Sezer, Humboldt M. (See Astley, Edward F., assignor.)
Shaff, Ernest H., assignor to W. H. Keller, Inc., Grand Haven, Mich. Tool-retaining device. 1,693,872; Dec. 4.
Sharp, Alexander B., assignor to The Ohio Foundry and Manufacturing Co., Steubenville, Ohio. Gas heater. 1,694,357; Dec. 4.
Shaw, John C. and R. D., assignors to Keller Mechanical Engineering Corporation, Brooklyn, N. Y. Tracer point. 1,694,022; Dec. 4.
Shaw, Robert D. (See Shaw, John C. and R. D.)
Shawen, Eli W., and A. C. Arnett, Dayton, Ohio. Water-softening silicate and producing same. 1,693,873; Dec. 4.
Sheehy, William, Fontana, Calif. Rabbit hutch. 1,694,082; Dec. 4.
Shogren, Charles A., assignor, by mesne assignments, to Art Metal Screen and Weather Strip Company, Chicago, Ill. Screen. 1,693,822; Dec. 4.
Shore, William, Minneapolis, Minn. Drill chuck. 1,693,823; Dec. 4.
Shorts, Nelson T., Fern, Pa. Tire-valve stem and pressure gauge. 1,694,286; Dec. 4.
Shulan, David H., Akron, Ohio. Finger ring. Des. 77,131; Dec. 4.
Siebert, Alfred H., assignor to St. Louis Butchers' & Hotel Supply Co., St. Louis, Mo. Display refrigerator. 1,694,147; Dec. 4.
Siemens & Halske Aktiengesellschaft. (See Kroll, Walter, assignor.)
Silverman, Wulf, New York, N. Y. Smoker's lamp. 1,693,620; Dec. 4.
Simonds, Dewey T., Schenectady, N. Y., assignor to General Electric Company. Control system. 1,694,237; Dec. 4.
Simonds, Francis M., New York, N. Y. Furnace for treating ores. 1,693,702; Dec. 4.
Simpkins, Victor I. (See Murray, G., and Simpkins.)
Sinclair Refining Company. (See Bell, John E., assignor.)
Sioberg, Charles F., assignor to York Safe and Lock Co., York, Pa. Lock. 1,693,731; Dec. 4.
Sirot, Charles R., Aubervilliers, France. Tipping device for wagons. 1,693,874; Dec. 4.
Smith, Edward F., Los Angeles, Calif. Rotary toothbrush. 1,693,964; Dec. 4.
Smith, Elmer L., and A. E. Phelon, assignors to Package Machinery Company, Springfield, Mass. Soap-wrapping machine. 1,693,675; Dec. 4.
Smith, Elmer L., A. E. Phelon, and P. Langhammer, assignors to Package Machinery Company, Springfield, Mass. Wrapping machine for stick candy. 1,693,674; Dec. 4.
Smith, John D., and C. R. Phillips, Richmond, Va. Stamp-affixing machine. 1,693,965; Dec. 4.
Smith, Joseph D., assignor of one-half to J. K. Richardson, St. Marys, Ontario, Canada. Sheet-metal pipe. 1,693,621; Dec. 4.
Smith, Julian C. (See Matheson, H. W., and Smith.)
Smith, Sylvester, Reedley, Calif. Tool for cutting valve seats. 1,693,767; Dec. 4.



Snyder, Clifford L., assignor to The Evans Auto Loading Co. Inc., Detroit, Mich. Head-block strap attachment. 1,694,287; Dec. 4.
Sobel, Samuel, Brooklyn, N. Y. Display stand. Des. 77,132; Dec. 4.
Societe Alumine et Derives. (See Patrouilleau, Louis G., assignor.)
Societe de Recherches et de Perfectionnements Industriels. (See Lévêque, Pierre H., assignor.)
Societe pour la Fabrication de la Soie "Rhodiaseta." (See Lardy, Guillaume, assignor.)
Sohlberg, Erik G., Schenectady, N. Y., assignor to General Electric Company. Installation of electric apparatus. 1,694,288; Dec. 4.
Sommer, William H., Peoria, Ill. Heating apparatus. 1,694,191; Dec. 4.
Spalding, John, Stamford, Conn., assignor to Albert T. Otto & Sons, New York, N. Y. Dry lubrication of textile machines. 1,694,148; Dec. 4.
Spaulding, Charles, Hingham, assignor to Spaulding-Moss Company, Boston, Mass. Greeting-card storing and displaying holder. 1,683,622; Dec. 4.
Spaulding-Moss Company. (See Spaulding, Charles, assignor.)
Specialty Engineering Company. (See Pfeiffer, Charles G., assignor.)
Speeder Machinery Corporation. (See Ronk, George T., assignor.)
Sperry Development Company. (See Sperry, Elmer A., assignor.)
Sperry, Elmer A., Brooklyn, N. Y., assignor to Sperry Development Company, Dover Green, Del. Oil-burning engine. 1,693,966; Dec. 4.
Sperry, Elmer A., jr., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Gyroscopic compass. 1,694,192; Dec. 4.
Sperry Gyroscope Company, The. (See Patterson, Martin L., assignor.)
Sperry Gyroscope Company, The. (See Sperry, Elmer A., jr., assignor.)
Spinelle, Michael B., assignor of one-half to J. F. Carson, Chicago, Ill. Ball-joint faucet. 1,693,676; Dec. 4.
Sproull, Clarence W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Fluid-pressure braking apparatus. 1,694,193; Dec. 4.
Srulowitz, Herman, Vienna, Austria. Device for draining the main pipe of heating installations of railroad cars. 1,694,289; Dec. 4.
Standard Oil Company. (See Brewster, Oswald C., assignor.)
Standard Oil Company. (See Engbrecht, Herman J., assignor.)
Standard Oil Company. (See Zweig, Charles, assignor.)
Standard Oil Company of California. (See Moser, Stuart, assignor.)
Standard Oil Development Company. (See Hewetson, Henry H., assignor.)
Standard Oil Development Company. (See Hopkins, M. B., and Buc, assignors.)
Standard Oil Development Company. (See Howard, Frank A., assignor.)
Standard Oil Development Company. (See Kraus, C. A., and Callis, assignors.)
Standard Oil Development Company. (See Loomis, Nathaniel E., assignor.)
Standard Oil Development Company. (See McKean, John I., assignor.)
Standard Oil Development Company. (See Powell, Raymond E., assignor.)
Standard Textile Products Company, The. (See Dieck, Henry W., assignor.)
Stanley Chemical Company, The. (See Dalbey, G. E., and Hanford, assignors.)
Starkins, Walter R., Rochester, N. Y. System for detecting and controlling humidity variations. 1,694,107; Dec. 4.
State Conservation and Development Commission on behalf of the Commonwealth of Virginia. (See Perdue, Landon L., assignor.)
Stator Refrigeration, Inc. (See Wescott, Ernest W., assignor.)
Staudte, Albert, Philadelphia, Pa. Stocking. Des. 77,133; Dec. 4.
Stazak, Michael B., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Telephone system. 1,693,824; Dec. 4.
Stein, Johann-Georg, Berlin-Halensee, Germany. Diving contrivance adapted for deep-sea diving. 1,694,108; Dec. 4.
Steinrück, Hermann, Berlin, Germany. Screw-thread tap. 1,693,768; Dec. 4.
Sterling, John R., London, England. Apparatus for extraction of water, oil, and fatty matter from solid material. 1,694,361; Dec. 4.
Stevens, Horace D., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Tube-splicing machine. 1,694,238; Dec. 4.
Stevens, John P., Long Beach, and G. A. C. Bailey; said Bailey assignor to L. Parenteau, Los Angeles, Calif. Automobile service indicator. 1,693,828; Dec. 4.
Stevens Partition & Floor Deadener Co. (See Murphy, Everett N., assignor.)
Stimpson, Wallace I., assignor to Draper Corporation, Hopedale, Mass. Spring for thread-cutting-loom temples. 1,693,942; Dec. 4.
Stockle, Erwin R., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Resistance unit. 1,693,825; Dec. 4.
Stokes, Charles L. (See Llenesch, Charles F., assignor.)
Stokes, Charles L., Los Angeles, Calif. Priming apparatus. 1,693,732; Dec. 4.
Stokes, Charles L., Los Angeles, Calif. Applying engine explosion pressure. 1,693,733; Dec. 4.
Stoltenberg, Louis, Oakland, Calif. Neckwear holder. 1,693,826; Dec. 4.
Stoltenberg, Louis, Oakland, Calif. Combination collar box and neckwear holder. 1,693,827; Dec. 4.
Straight, Halver R., Adel, Iowa. Corn-crib wall construction. 1,694,083; Dec. 4.
Straight, Halver R., Adel, Iowa. Crane. 1,694,084; Dec. 4.
Straight, Halver R., Adel, Iowa. Kiln car. 1,694,085; Dec. 4.
Strasser, Louis H. (See Johnson, N., and Strasser.)
Strid, Sven J., assignor to F. Mathews, Chicago, Ill. Mounting for brake gears. Re17,151; Dec. 4.
Strunge, Sigurd, Wyandotte, Mich. Friction screw-lifting mechanism. 1,693,624; Dec. 4.
Suck, Henry, Roslindale, Mass. Fastener for doors, panels, and the like. 1,694,023; Dec. 4.
Sumi, Yuji, San Francisco, Calif. Combined coat hanger and brush. Des. 77,134; Dec. 4.
Sun Rise Lamp Mfg. Co. (See Hecht, Leo, assignor.)
Sundstrand Corporation. (See Sundstrand, Gustaf D., assignor.)
Sundstrand, Gustaf D., Rockford, Ill., assignor, by mesne assignments, to Sundstrand Corporation, Wilmington, Del. Adding and listing machine. 1,694,362; Dec. 4.
Sundstrand, Gustaf D., assignor to Sundstrand Machine Tool Co., Rockford, Ill. Machine tool. 1,694,363; Dec. 4.
Sundstrand Machine Tool Co. (See Sundstrand, Gustaf D., assignor.)
Swartzbaugh Manufacturing Company, The. (See Ziola, Henry A., assignor.)
Sweeney, Orland R., Ames, Iowa, assignor to Ward-Love Pump Corporation, Rockford, Ill. Brine tank for water softeners. 1,693,829; Dec. 4.
Swift & Company. (See Covey, John E., assignor.)
Swift, Lewis B., assignor to Taylor Instrument Companies, Rochester, N. Y. Process-control system. 1,693,677; Dec. 4.
Switzer, Maurice, assignor to M. G. Scheuer, New York, N. Y. Radiator-front cover. 1,694,358; Dec. 4.
Sykes, William E., Slough, England. Machine for cutting gear teeth. 1,694,041; Dec. 4.
Sykes, William E., Buffalo, N. Y. Machine for cutting gear teeth. 1,694,042; Dec. 4.
Symonds, Harold D., and H. J. Cullen, New York, N. Y. Inlet box. 1,694,347; Dec. 4.
Sywert, Philip T., Scotia, N. Y., assignor to General Electric Company. Gasket. 1,694,291; Dec. 4.
Tanaka, Tombay, Paso Robles, Calif. Thumb tack. 1,693,875; Dec. 4.
Tappan Stove Company, The. (See Taylor, Thomas E., assignor.)
Taylor, Edward A., assignor to The Grasselli Chemical Company, Cleveland, Ohio. Drainpipe-cleaning composition. 1,693,678; Dec. 4.
Taylor, George A., Bergenfield, N. J., assignor to National Biscuit Company, New York, N. Y. Display device. 1,694,024; Dec. 4.
Taylor Instrument Companies. (See Swift, Lewis B., assignor.)
Taylor, Thomas E., assignor to The Tappan Stove Company, Mansfield, Ohio. Oven construction. 1,693,625; Dec. 4.
Terry, Merrill H., Columbus, Ohio. Fuse plug. 1,693,679; Dec. 4.
Testrite Instrument Co. (See Neuwirth, Herman, assignor.)
Texas Gulf Sulphur Company. (See Kobbé, William H., assignor.)
Thomas, Adolph A., New York, N. Y. Combined radio and phonograph cabinet. 1,693,967; Dec. 4.
Thomas, Percy H., Upper Montclair, N. J. System for excitation of synchronous-type electric machines. 1,693,968; Dec. 4.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Split reduction device. 1,693,626; Dec. 4.
Thomas, Thomas H., Edgewood, and C. A. Nelson, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,693,627; Dec. 4.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. 1,693,943; Dec. 4.
Thompson, George B., Richmond Hill, N. Y. Fighting bag. 1,694,044; Dec. 4.
Thompson, Howard A., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,694,339; Dec. 4.
Thomson, Charles M., Westmount, Quebec, Canada. Metallic frame construction. 1,694,043; Dec. 4.
Thonsen, Charles H., Brooklyn, N. Y. Electrical binding post. 1,694,239; Dec. 4.
Thum, Martin, Rochester, N. Y. Joint for tubular structures. 1,688,680; Dec. 4.
Tinius Olsen Testing Machine Company. (See Lewis, Robert B., assignor.)

Tockar, Nicholas J., North Vancouver, assignor to V. Laursen, Vancouver, British Columbia, Canada. Pole-protecting device. 1,694,109; Dec. 4.
Toledo Machine & Tool Company, The. (See Hinde, Henry J., assignor.)
Tower, Edwin B. H., jr. (See Briggs, Stephen F., assignor.)
Toy, George D. (See Perry, W. A., and Toy.)
Tracey, Fred A., Portland, Oreg. Constructing and supporting forms for concrete work. 1,694,292; Dec. 4.
Trico Products Corporation. (See Oishei, John R., assignor.)
Trico Products Corporation. (See Phillips, John X., jr., assignor.)
Trimble, Charles P., assignor to Fort Pitt Bedding Company, Pittsburgh, Pa. Spring cushion and the like. 1,694,359; Dec. 4.
Triska, Joseph, Omaha, Nebr. Bottle cap. 1,693,830; Dec. 4.
Troy Laundry Machinery Company. (See Waggett, Thomas A., assignor.)
Trudo, Eugene F., Weston, Mass. Metal chair. 1,694,293; Dec. 4.
Tuck, George A., San Francisco, Calif. Automatic flue control for furnaces. 1,693,769; Dec. 4.
Turnbull, William, Peoria, Ill., assignor to Caterpillar Tractor Co., San Leandro, Calif. Ice grouser shoe. 1,693,831; Dec. 4.
Turner, Guilford S. (See Vissering, H., and Turner.)
Turner, Jacob, assignor to Turner Manufacturing Company, Chicago, Ill. Mirror frame. Des. 77,135; Dec. 4.
Turner Manufacturing Company. (See Turner, Jacob, assignor.)
Tuttle, Henry A., Upton, Mass. Reversing mechanism. 1,694,294; Dec. 4.
Tuttle, Henry A., Upton, Mass. Reversing mechanism. 1,694,295; Dec. 4.
Tuttle Silver Company. (See Dolan, Bernard A., assignor.)
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Annealing process. 1,693,800; Dec. 4.
Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Mold for centrifugal pipe casting. 1,693,703; Dec. 4.
Underwood Elliott Fisher Company. (See Blaisdell, Harrison O., assignor.)
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Underwood Elliott Fisher Company. (See Oswald, Alfred E., assignor.)
Union Switch & Signal Company, The. (See Sproull, Clarence W., assignor.)
Union Switch & Signal Company, The. (See Thompson, Howard A., assignor.)
Union Switch & Signal Company, The. (See Young, Henry S., assignor.)
United Shoe Machinery Corporation. (See Barclay, W. R., and Keall, assignors.)
United Shoe Machinery Corporation. (See Pym, Arthur F., assignor.)
United States Cast Iron Pipe & Foundry Company. (See Uhrig, John H., assignor.)
Unruh, Edward N., jr., Corsicana, Tex. Cable-spooling device. 1,693,876; Dec. 4.
Utah Royalty Corporation. (See Rider, Rowland W., assignor.)
Utica Products, Inc. (See Hauser, George D., assignor.)
Uttz, William A., sr., St. Louis, Mo., assignor to Perfection Package Sealer Company, Inc., Dallas, Tex. Roll holder for gummed-tape-serving machines. 1,693,877; Dec. 4.
Valley Mould and Iron Corporation. (See Perry, John E., assignor.)
Van Brunt, John, Flushing, assignor to Combustion Engineering Corporation, New York, N. Y. Traveling chain grate. 1,693,628; Dec. 4.
Van Dinter, George L. (See Bradley, C. E., and Van Dinter.)
Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
Vawter, Charles E., Philadelphia, Pa., assignor to Dubilier Condenser Corporation, New York, N. Y. Electrical resistance. 1,694,149; Dec. 4.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Ogden, Amos, assignor.)
Victory Lamp Company. (See Buccini, Hugo A., assignor.)
Villaret, Gustave E., Leonia, N. J. Chandelier. Des. 77,136; Dec. 4.
Villaret, Gustave E., Leonia, N. J. Wall bracket for lighting fixtures. Des. 77,137; Dec. 4.
Villiger, Walter, and W. Bauersfeld, assignors to Carl Zeiss, a firm, Jena, Germany. Device for projecting stars. 1,693,969; Dec. 4.
Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Internal-combustion engine. 1,693,832; Dec. 4.
Vion, Eugène, Paris, France. Compass. 1,694,194; Dec. 4.
Vissering, Harry, and Company. (See Vissering, H., and Turner, assignors.)
Vissering, Harry, Kenilworth, and G. S. Turner, Berwyn, assignors to Harry Vissering and Company, Chicago, Ill. Track-sanding apparatus. 1,693,944; Dec. 4.
Vogel, Vincent, Chicago, Ill. Fastener. 1,693,013; Dec. 4.
Von Nessen, Walter, New York, N. Y., assignor to Efcolite Corporation. Shade. Des. 77,138; Dec. 4.
Von Platen, Baltzar C., and C. G. Munters, Stockholm, Sweden, assignors to Electrolux Servel Corporation, New York, N. Y. Refrigerating apparatus. 1,693,970; Dec. 4.
Vortex Mfg. Co., The. (See Barbieri, Cesare, assignor.)
Voss, George C., assignor of one-third to J. H. Rendleman and one-third to R. R. Wiard, Exira, Iowa. Saw. 1,694,150; Dec. 4.
Waggett, Thomas A., East Moline, Ill., assignor, by mesne assignments, to Troy Laundry Machinery Company, Inc., Dover, Del. Plate punching and finishing means. 1,694,045; Dec. 4.
Waggoner, Melancthon R., Cedar Rapids, Iowa, assignor to McIntosh Electrical Corporation, Chicago, Ill. Switching means for effecting electrotherapeutic treatment. 1,693,734; Dec. 4.
Wagner, Stefan, Los Angeles, Calif. Boring machine. 1,693,971; Dec. 4.
Waite, Harry F., New York, N. Y. Rectifying system. 1,694,151; Dec. 4.
Walker, Hervey S., Ardmore, Pa. Underfloor duct system. 1,693,682; Dec. 4.
Walle, Ludvig S., Scotia, N. Y., assignor to General Electric Company. Time-element device. 1,694,240; Dec. 4.
Wanamaker, Elmer M., assignor to Anaconda Sales Company, New York, N. Y. Apparatus for electrodeposition. 1,693,683; Dec. 4.
Warburg, Julius, Brooklyn, N. Y. Bag-frame fastener. 1,694,152; Dec. 4.
Ward-Love Pump Corporation. (See Sweeney, Orland R., assignor.)
Warga, Kalman, New York, N. Y., assignor to C. W. Bickford and M. Bickford, Osceola Mills, Pa. Decorating glass surfaces. 1,693,735; Dec. 4.
Warner, William F., jr., assignor to Henry Conally Company, Inc., Rochester, N. Y. Loose-leaf binder. 1,693,684; Dec. 4.
Waseiak, Joseph, Minneapolis, Minn. Valve lock. 1,694,086; Dec. 4.
Wassell, Helen E. (See Jackson, L. E., and Wassell.)
Waterbury Farrel Foundry and Machine Company, The. (See Petitjean, Clifford O., assignor.)
Watkins, Devereux J. G., Lincoln, England. Windproof lamp. 1,693,704; Dec. 4.
Watres, Lewis, S., Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del. Apparatus for abrading graphite or similar material. 1,693,736; Dec. 4.
Watres, Lewis S., Scranton, Pa., assignor to National Graphite Lubrication Company, Wilmington, Del. Lubrication and apparatus therefor. 1,694,153; Dec. 4.
Watteubarger, Jacob N., et al. (See Long, Wilber L., assignor.)
Watts, Thomas L., Indianapolis, Ind. Variable direction control for trailing objects. 1,694,195; Dec. 4.
Way, Harry C., Wheeling, W. Va. Grave marker. 1,694,196; Dec. 4.
Weaver, Allan, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Method and apparatus for transmission of pictures. 1,693,685; Dec. 4.
Weaver, Ralph J., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Mold. 1,694,025; Dec. 4.
Weber, Albert, Upper Montclair, N. J., assignor to Herman C. Kupper, Inc., New York, N. Y. Covered dish or similar article. Des. 77,139; Dec. 4.
Weber, Karl A., assignor to Weber Showcase & Fixture Company, Los Angeles, Calif. Panel polishing and rubbing machine. 1,694,046; Dec. 4.
Weber Showcase & Fixture Company. (See Weber, Karl A., assignor.)
Webre, Alfred L., Winchester, assignor to E. B. Badger and Sons Company, Boston, Mass. Nonclogging spray nozzle. 1,693,629; Dec. 4.
Weiler, Wilhelm, Niederschonhausen, Germany, assignor to General Electric Company. Induction-motor-regulating system. 1,694,241; Dec. 4.
Weiler, Wilhelm, Niederschonhausen, Berlin, Germany, assignor to General Electric Company. Frequency-changer apparatus. 1,694,296; Dec. 4.
Weinland, Hermon G., assignor to The Safety Grinding Wheel & Machine Company, Springfield, Ohio. Grinding machine. 1,694,340; Dec. 4.
Weldon, William B., assignor to W. S. Darley, Chicago, Ill. Method and apparatus for locating the point of escape of a fluid from concealed pipes. 1,693,737; Dec. 4.
Weller, Ernest E., Providence, R. I. Shoe-strap fastener member. Des. 77,140; Dec. 4.
Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,694,110; Dec. 4.
Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Motion-picture projector. 1,694,111; Dec. 4.
Wells, Ralph J., Dayton, Ohio. Track liner and applying same. 1,693,878; Dec. 4.
Wening, Frederick, Cleveland, Ohio. Shade holder. 1,694,047; Dec. 4.
Wermine, Hugo H., assignor to Belden Manufacturing Company, Chicago, Ill. Insulating tube and making same. 1,693,630; Dec. 4.



Wescott, Ernest W., Niagara Falls, N. Y., assignor, by mesne assignments, to Stator Refrigeration, Inc. Aspirator. 1,694,087; Dec. 4.
Westendorf, John W., Baltimore, Md. Window-shade fixture. 1,694,154; Dec. 4.
Western Coil & Electrical Co. (See Lewis, William T., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Nelson, Claude A., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, T. H., and Nelson, assignors.)
Westinghouse Electric & Manufacturing Company. (See Naylor, William K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Robinson, Ernest Y., assignor.)
Westinghouse Electric & Manufacturing Company. (See Williams, H. W., and Boozer, assignors.)
Westphal, Frederick, New York, N. Y. Nonrefillable bottle. 1,693,879; Dec. 4.
Wetmore, Earl P., Concord, Mich., assignor to The Anoilcoal Burner Co., Toledo, Ohio. Method and apparatus for burning fuel. 1,693,880; Dec. 4.
Wheaton, A. W., Brass Works. (See Wheaton, Abram W., jr., assignor.)
Wheaton, Abram W., jr., Maplewood, assignor to A. W. Wheaton Brass Works, Newark, N. J. Faucet wrench. 1,694,242; Dec. 4.
Wheaton, Harold J., Lower Walton, near Warrington, England, assignor, by mesne assignments, to American Doucil Company, Philadelphia, Pa. Base-exchange compound and making it. 1,694,155; Dec. 4.
Wheeler, Maude A. M. (See Mingus, Maude A.)
Wheeling Steel Corporation. (See Rollason, Charles H., assignor.)
White, Fred H., Toledo, Ohio. Indicator device, 1,694,048; Dec. 4.
Whitehead and Kales, Inc. (See Rainsford, Thomas F., assignor.)
Whitehead, Thomas C., Detroit, Mich. Oil extractor. 1,693,738; Dec. 4.
Whitney, Gilbert C., New York, N. Y. Train-indication system. 1,693,739; Dec. 4.
Whittemore, Herbert A., Newcastle, Calif. Fruit-car brace. 1,694,026; Dec. 4.
Whittington, Allen R., Detroit, Mich. Door buffer. 1,694,297; Dec. 4.
Wiard, Roy R., et al. (See Voss, George C., assignor.)
Widescope Camera Company. (See McInnis, Walter J., assignor.)
Wildern, George R., Detroit, Mich. Valve. 1,693,945; Dec. 4.
Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing curved tooth gearing. 1,693,686; Dec. 4.
Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Producing gears. 1,693,687; Dec. 4.
Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Gear. 1,693,740; Dec. 4.
Wildhaber, Ernest, Brooklyn, assignor to Gleason Works, Rochester, N. Y. Gearing. 1,694,027; Dec. 4.
Wildhaber, Ernest, assignor to Gleason Works, Rochester, N. Y. Gear. 1,694,028; Dec. 4.
Wilford, Charles G. (See Paddack, S. D., and Wilford.)
Wilford, Edward B., Merion, Pa., assignor to Ritter Dental Manufacturing Company, Inc., Rochester, N. Y. Dental chair. 1,694,243; Dec. 4.
Williams, Harold W., East Pittsburgh, and D. G. Boozer, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Control apparatus. 1,693,631; Dec. 4.
Williams, Henry B., assignor to John W. Ladd Co., Detroit, Mich. Bottle cooler. 1,693,995; Dec. 4.
Williams, James M., Sanford, Fla. Automatic folding crossing gate. 1,694,298; Dec. 4.
Williamson, John A. (See Glomstead, E. E., and Williamson.)
Wilson, C. R., Body Company. (See Breneman, Paul E., assignor.)
Wilson, Raymond C., assignor to International Motor Company, New York, N. Y. Seat. 1,693,770; Dec. 4.
Windberger, Othmar, Wiener-Neustadt, Austria. Underframe for automobile vehicles. 1,694,112; Dec. 4.
Winkler, Carl, Bern, Switzerland. Machine for casting curved stereoplates. 1,694,299; Dec. 4.
Wiremold Company, The. (See Frederickson, Otto A., assignor.)
Wirt, Zebulon, Omaha, Nebr. Refrigerating apparatus. 1,694,156; Dec. 4.
Witham, George S., jr., Hudson Falls, N. Y. Apparatus for controlling the drying operation in paper machines. 1,694,349; Dec. 4.
Wolf, Jacques, Basel, Switzerland. Shutter mechanism for photographic apparatus. 1,694,113; Dec. 4.
Wolfe, Warren, E., Los Angeles, Calif. Building. Des. 77,141; Dec. 4.
Wolkowich, Natalie, Worcester, Mass. Strainer. 1,694,088; Dec. 4.
Wolski, Paul. (See Jantsch, G., and Wolski.)
Wood, A. J. (See Daniels, M., and Wood.)
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Folding and cutting couple for folding machines. 1,694,300; Dec. 4.
Wood, Manton A. (See Hotz, John P., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor)
Wood, William H., South Euclid, Ohio. Manufacture of headlights. Re17,155; Dec. 4.
Woodling, Miner D., Kansas City, Mo. Vehicle washing tank. 1,694,197; Dec. 4.
Worley, George L., Akron, Ohio. Band for use with tractors or the like. 1,693,833; Dec. 4.
Worthen, Walter E., West Hollywood, Calif. Latch. 1,693,912; Dec. 4.
Wright, James A., Montreal, Quebec, Canada. Rear-axle assembly. 1,694,049; Dec. 4.
Wright, Maurice J., Boise, Idaho. Register dust cover. 1,694,098; Dec. 4.
Wuest, Andrew, Rochester, N. Y. Liquid filter. 1,693,741; Dec. 4.
Yamamoto, Ototaro N., Los Angeles, Calif. Card game. 1,694,029; Dec. 4.
Yanss, George W., Bridgeport, Conn., assignor to American Chain Company, Inc. Automobile fender guard. 1,694,198; Dec. 4.
York Safe and Lock Co. (See Sioberg, Charles F., assignor.)
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Apparatus for the control of railway switches. 1,694,050; Dec. 4.
Young, Thomas, Enfield, England. Sound amplifier. 1,693,771; Dec. 4.
Zeiss, Carl, a Firm. (See Villiger, W., and Bauersfeld, assignor.)
Zellstofffabrik Waldhof. (See Clemm, Hans, assignor.)
Zellstofffabrik Waldhof. (See Hanglelter, C., and Schneider, assignors.)
Ziola, Henry A., assignor to The Swartzbaugh Manufacturing Company, Toledo, Ohio. Electric terminal construction. 1,693,881; Dec. 4.
Zipkes, Maximilian. (See Horn, S., and Zipkes.)
Zuckerman, Adolph M., assignor, by mesne assignments, to R. Hoe and Co., Inc., New York, N. Y. Delivery mechanism. 1,693,632; Dec. 4.
Zweig, Charles, Wood River, Ill., assignor to Standard Oil Company, Whiting, Ind. Removal of petrolatum from oils. 1,694,090; Dec. 4.
Zweig, Joseph, Brooklyn, assignor to Metropolitan Lamp Co., Inc., New York, N. Y. Handle for smoking stands or similar articles. Des. 77,142; Dec. 4.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 4TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Accelerator. R. M. Henderson. 1,693,897; Dec. 4.
Accordion. F. Nardone. 1,693,616; Dec. 4.
Acid process, Contact sulphuric-. A. O. Jaeger. 1,694,123; Dec. 4.
Acoustic diaphragm. H. G. Pape. 1,693,727; Dec. 4.
Adding and listing machine. G. D. Sundstrand. 1,694,362; Dec. 4.
Aeroplane. S. Horn and M. Zipkes. 1,694,177; Dec. 4.
Air cleaner. F. O. Catron. 1,694,116; Dec. 4.
Air-compressing mechanism. G. E. Hazard. 1,694,218; Dec. 4.
Air-conditioning system. C. A. Moore. 1,693,855; Dec. 4.
Aircraft pontoon apparatus. J. B. Anderson. 1,693,773; Dec. 4.
Air heater. W. L. Long. 1,694,351; Dec. 4.
Air in storage chambers, System for conditioning. C. A. Moore. 1,693,856; Dec. 4.
Air purifier. C. C. Farmer. 1,693,646–7; Dec. 4.
Alkyl compounds of lead, Preparing. C. A. Kraus and C. C. Callis. 1,694,268; Dec. 4.
Amplification system. L. C. F. Horle. 1,693,898; Dec. 4.
Amusement device. J. J. Schmid. 1,693,798; Dec. 4.
Anchor, Rail. R. A. Blair. 1,693,804; Dec. 4.
Annealing process. J. B. Tytus. 1,693,800; Dec. 4.
Antenna for electric wave transmission. A. Meissner. 1,694,135; Dec. 4.
Anthracene, Purification of crude. A. O. Jaeger. 1,693,713; Dec. 4.
Arch support. W. F. Dunlop. 1,694,315; Dec. 4.
Arch-supporting device for boots and shoes. M. C. Messler. 1,694,353; Dec. 4.
Armature-insulation-cutting machine. R. W. Baker. 1,693,996; Dec. 4.
Aspirator. E. W. Wescott. 1,694,087; Dec. 4.
Assorting machine. F. J. Cook. Re17,149; Dec. 4.
Auditing machine. M. M. Goldberg. 1,694,009; Dec. 4.
Autographic register. L. F. Hagemann. 1,693,982; Dec. 4.
Automobile accessory. C. R. Duncan. 1,694,060; Dec. 4.
Axle assembly, Rear-. J. A. Wright. 1,694,049; Dec. 4.
Axle for motor cars, Swivelled. E. Ascarelli. 1,694,305; Dec. 4.
Back-fire and theft preventing device, Combined. A. I. Liberman. 1,694,271; Dec. 4.
Bag: *See*—
Fighting bag.
Bail for pails and the like. R. R. Debacher. 1,694,165; Dec. 4.
Ball-and-socket joint. F. Faudl. 1,693,840; Dec. 4.
Band for use with tractors or the like. G. I. Worley. 1,693,833; Dec. 4.
Bar: *See*—
Grate bar.
Battery nuts, Making. E. G. Oakley. 1,693,957; Dec. 4.
Bearings, Oil and water control for hydraulic turbine. W. F. Grant. 1,693,600; Dec. 4.
Bed-bottom fabric. M. A. Davis. 1,694,094; Dec. 4.
Bed, Folding. F. R. Moore. 1,693,795; Dec. 4.
Bending machines, Attachment for. R. L. Herman and G. F. Schmidt. 1,693,951; Dec. 4.
Bias-cutting machine. A. C. Bolton. 1,693,589; Dec. 4.
Bill fold and pass case, Combination. C. L'Enfant. 1,694,186; Dec. 4.
Binder, Loose-leaf. W. F. Warner, jr. 1,693,684; Dec. 4.
Binding machine, Sheet-. L. Burdett. 1,694,055; Dec. 4.
Binding post, Electrical. C. H. Thonsen. 1,694,239; Dec. 4.
Bitt. J. H. Clark. 1,694,312; Dec. 4.
Blade or sod scraper, Cultivator. D. D. Low. 1,694,099; Dec. 4.
Block: *See*—
Chock block.
Blouse, Sailor's dress. W. I. Clements. 1,694,206; Dec. 4.
Board: *See*—
Cutting board.
Boat-propelling mechanism. O. J. Borgman. 1,693,590; Dec. 4.
Boiler: *See*—
Steam boiler.
Boiler stand. C. F. Cole. 1,694,000; Dec. 4.
Boiler-washer. S. Radway. 1,694,346; Dec. 4.
Bolt device, Fitting-up. E. S. Klausner. 1,694,326; Dec. 4.
Book. E. E. Price. 1,693,865; Dec. 4.
Boring machine. S. Wagner. 1,693,971; Dec. 4.
Bottle. B. Edmiston and H. T. Kinney. Des. 77,081; Dec. 4.
Bottle. L. B. Koch. Des. 77,103; Dec. 4.
Bottle cap. J. Triska. 1,693,830; Dec. 4.
Bottle cap, Milk-. J. E. Johnson. 1,693,787; Dec. 4.
Bottle cooler. H. B. Williams. 1,693,995; Dec. 4.
Bottle, Nonrefillable. F. Westphal. 1,693,879; Dec. 4.
Bottle or the like. J. Bramble. Des. 77,052–4; Dec. 4.
Bowl or similar article. E. Magnussen. Des. 77,109; Dec. 4.
Box: *See*—
Ground box. Mail box.
Inlet box. Smoke box.
Box and neckwear holder, Combination collar. L. Stoltenberg. 1,693,827; Dec. 4.
Box for ingot molds, Core. J. E. Perry. 1,694,105; Dec. 4.
Box or similar article, Powder-puff. R. E. McEldowney. Des. 77,110; Dec. 4.
Boxes, Making collapsible. F. M. Joslin. 1,694,126; Dec. 4.
Brace: *See*—
Fruit-car brace. Rail brace.
Bracket for lighting fixtures, Wall. I. Rosenblatt. Des. 77,125; Dec. 4.
Bracket for lighting fixtures, Wall. G. E. Villaret. Des. 77,137; Dec. 4.
Brake: *See*—
Fluid-pressure brake.
Brake and door control for automotive buses. R. W. Bailey. 1,693,834; Dec. 4.
Brake control. M. W. McConkey. 1,694,075; Dec. 4.
Brake drum. G. W. Benedict. 1,694,052; Dec. 4.
Brake mechanism. F. Brault and A. Cordier. 1,694,203; Dec. 4.
Brake mechanism, Vehicle. N. A. Christensen. 1,693,887; Dec. 4.
Brake operating means, Hydraulic and band. W. G. Price. 1,694,020; Dec. 4.
Braking apparatus, Fluid-pressure. C. W. Sproull. 1,694,193; Dec. 4.
Braking device for vehicles. A. I. Kapion. 1,694,181; Dec. 4.
Breathing apparatus particularly for administering anæsthetics. H. W. C. Schröder. 1,693,730; Dec. 4.
Brooch or similar article. B. Mechlovits. Des. 77,113; Dec. 4.
Brush. E. F. Astley. 1,694,306; Dec. 4.
Brush attachment, Floor. H. Klingenberg. 1,694,327; Dec. 4.
Brush for grainer pipes, Automatically-actuated. T. C. Colbiornsen. 1,693,689; Dec. 4.
Brush, knife, and roller, Combination. J. F. Connor. 1,693,745; Dec. 4.
Brush, Rotatable. R. C. Mudge and E. A. Gallison. 1,694,018; Dec. 4.
Buffet table. J. C. Reid. 1,694,283; Dec. 4.
Building. C. W. Buckham. 1,694,309; Dec. 4.
Building. W. E. Wolfe. Des. 77,141; Dec. 4.
Building-block mold. C. J. Dexter. 1,693,693; Dec. 4.
Building construction. A. F. Bemis. 1,693,742; Dec. 4.
Building construction. K. R. Schuster. 1,693,941; Dec. 4.
Bulb or similar article, Electric. G. Niebel. Des. 77,118; Dec. 4.
Burner: *See*—
Oil burner.
Burner and valvular control therefor. E. L. Lowe. 1,693,931; Dec. 4.
Burning fuel, Method and apparatus for. E. P. Wetmore. 1,693,880; Dec. 4.
Cabinet, Beverage-dispensing. C. Doering. Des. 77,079; Dec. 4.
Cabinet, Combined radio and phonograph. A. A. Thomas. 1,693,967; Dec. 4.
Cabinet for a coin-controlled game apparatus. A. S. T. Lagaard. Des. 77,106; Dec. 4.
Cabinet, Toweling. J. D. Leveille. 1,693,905; Dec. 4.
Cable-connecting means. D. M. Bardon. 1,694,051; Dec. 4.
Calculating machine. A. Schubode. 1,693,766; Dec. 4.
Camera, Panoramic motion-picture. W. J. McInnis. 1,693,722; Dec. 4.
Can: *See*—
Metal can.
Can. J. Frank. 1,694,119; Dec. 4.
Can opener. H. Garrison. 1,693,894; Dec. 4.
Cap for ground members. W. D. Kyle. 1,693,848; Dec. 4.
Car construction, Dump-. W. E. Morey and D. Hindahl. 1,694,077; Dec. 4.
Car, Kiln. H. R. Straight. 1,694,085; Dec. 4.
Car, Refrigerator. G. A. Hull. 1,693,815; Dec. 4.
Carbon, Electric soldering. M. E. Gebel. 1,694,256; Dec. 4.
Carbon, Making activated. A. B. Bay, E. G. Doying and J. J. Butkovsky. 1,694,040; Dec. 4.
Carburetor. N. Lombard. 1,693,792–3; Dec. 4.
Card and letter, Combination post. E. Dziuk. 1,693,811; Dec. 4.
Carrier for automobiles, Luggage. W. G. Herd. 1,693,922; Dec. 4.





Carrousel-driving mechanism. C. E. Morris. 1,693,724; Dec. 4.
Carton, Double-receptacle. G. S. Gaylord. 1,693,841; Dec. 4.
Case: *See*—
Show case. Vanity case.
Caster, Adjustable. W. C. Hartmann. 1,693,920; Dec. 4.
Casting apparatus. F. Ehrmann. 1,694,118; Dec. 4.
Casting machine (weighing mechanism), Centrifugal. W. D. Moore and W. Morgan. 1,693,654; Dec. 4.
Catalytic oxidations in the gaseous or vapor state, Carrying out. J. Brode and A. Johannsen. 1,693,915; Dec. 4.
Cell, Photosensitive. S. Ruben. 1,694,189; Dec. 4.
Cellulose, Apparatus for boiling. K. Hangleiter and A. Schneider. 1,693,983; Dec. 4.
Cellulose ethers, Manufacture of. O. Leuchs and E. Dörr. 1,694,127; Dec. 4.
Cellulose-nitrate solution. M. B. Hopkins and H. E. Buc. 1,694,097; Dec. 4.
Cement, Wet process for manufacturing. W. P. Eckdahl. 1,693,644; Dec. 4.
Cements, Manufacture of aluminous. L. G. Patrouilleau. 1,694,338; Dec. 4.
Chain, Sprocket. J. C. Merwin. 1,694,275; Dec. 4.
Chair: *See*—
Dental chair. Metal chair.
Chair. C. S. Johnson. 1,694,013; Dec. 4.
Chair for wall closets, etc., Adjustable supporting. W. V. Bulman. 1,693,744; Dec. 4.
Chandelier. I. Rosenblatt. Des. 77,123–4; Dec. 4.
Chandelier. G. E. Villaret. Des. 77,136; Dec. 4.
Charging apparatus for pulp digesters. E. Olsson. 1,694,139; Dec. 4.
Chock block, Composition. E. S. Evans. 1,694,316; Dec. 4.
Crystallization of solid substances in a coarse granular form from solutions. I. Isaachsen. 1,693,786; Dec. 4.
Chute, Gravity. C. G. Pfeiffer. 1,694,019; Dec. 4.
Circuit, Battery supply. F. W. McKown. 1,693,653; Dec. 4.
Clamp: *See*—
Line clamp.
Clamp plate. H. S. Jandus and J. R. Morgan. Des. 77,100; Dec. 4.
Clamp plate for vehicle bumpers. H. S. Jandus. Des. 77,097; Dec. 4.
Clamp plate for vehicle bumpers. H. S. Jandus and N. Van Husen. Des. 77,099; Dec. 4.
Cleaner: *See*—
Air cleaner. Windshield cleaner.
Window cleaner.
Cleaning and polishing automobiles, Apparatus for. B. K. Gillespie. 1,694,120; Dec. 4.
Cleaning apparatus, Suction. E. F. Martinet. 1,694,273; Dec. 4.
Cleaning coal, Apparatus for. E. O'Toole. 1,693,861; Dec. 4.
Cleaning composition, Drainpipe-. E. A. Taylor. 1,693,678; Dec. 4.
Cleaning device, Tank-. A. B. Butterworth. 1,693,885; Dec. 4.
Cleaning flexible foraminous sheets. F. G. Purinton. 1,694,021; Dec. 4.
Clipper. A. Dishmaker. 1,693,707; Dec. 4.
Clock-controlled switch. H. P. MacLagan. 1,693,721; Dec. 4.
Clock face. F. Fontana. Des. 77,083; Dec. 4.
Clock frame. F. W. Schenk. Des. 77,129; Dec. 4.
Coating for molds. A. J. Hess. 1,693,923; Dec. 4.
Cock, Ball. L. R. Davidson and H. F. Rahl. 1,693,691; Dec. 4.
Coil. H. D. Currier. 1,693,887; Dec. 4.
Coil, Sectional induction. W. H. Adams. 1,694,091; Dec. 4.
Comb and razor, Combined. M. Aland. 1,693,973; Dec. 4.
Commutators, Making. J. J. Carter. 1,693,997; Dec. 4.
Compass. E. Vion. 1,694,194; Dec. 4.
Compass, Gyroscopic. E. A. Sperry, jr. 1,694,192; Dec. 4.
Composition containing cellulose derivatives. J. G. Davidson. 1,693,746; Dec. 4.
Compound and making it, Base-exchange. H. J. Wheaton. 1,694,155; Dec. 4.
Computing machine. F. A. Hart. 1,693,753; Dec. 4.
Concrete form, molding a concrete wall, and wall. I. J. Kuert. 1,694,037; Dec. 4.
Condenser. E. A. Bohlman. 1,693,588; Dec. 4.
Condenser, Electrical. A. Möhrle. 1,694,276; Dec. 4.
Container. H. J. Schaffer. 1,693,819; Dec. 4.
Container bogie. G. McCall and J. E. Reid. 1,693,700; Dec. 4.
Container, Liquid-dispensing. G. J. Armstrong. 1,694,304; Dec. 4.
Control apparatus. H. W. Williams and D. G. Boozer. 1,693,631; Dec. 4.
Control device, Electric distant. E. Granat. 1,694,121; Dec. 4.
Control of railway switches, Apparatus for the. H. S. Young. 1,694,050; Dec. 4.
Control system. D. T. Simonds. 1,694,237; Dec. 4.
Control system, Process-. L. B. Swift. 1,693,677; Dec. 4.
Convection heater, Emergency. W. A. Brown. 1,694,160; Dec. 4.
Conveyer, Worm. R. Miller. 1,694,228; Dec. 4.
Cooking utensils, Attachment for. A. E. Blenstock. 1,693,974; Dec. 4.
Cooler: *See*—
Bottle cooler.
Cooling system for aircraft engines. H. C. Mallory. 1,694,071; Dec. 4.
Cotton blocker, Cross-row. S. F. Brown. 1,694,204; Dec. 4.
Cotton separator. N. B. Henry. 1,693,754; Dec. 4.
Corn shredder and husker. H. P. Grossman. Re17,152; Dec. 4.
Corset and brassière, Combined. L. E. Scofield. 1,693,799; Dec. 4.
Coupling: *See*—
Flexible coupling.
Coupling and steering device for automobiles. A. W. Nordgren. 1,694,278; Dec. 4.
Cover, Burial-receptacle. W. B. Muckleroy. Des. 77,116; Dec. 4.
Cover for tanks, Breather. J. S. Patten. 1,693,958; Dec. 4.
Cover for tire-valve apertures. E. A. Nelson. 1,693,859; Dec. 4.
Cover, Manhole. E. T. McHugh. 1,694,133; Dec. 4.
Cover, Register dust. M. J. Wright. 1,694,089; Dec. 4.
Crane. H. R. Straight. 1,694,084; Dec. 4.
Crate, Sheet-metal. C. L. Lippincott. 1,693,906; Dec. 4.
Crossing gate, Automatic folding. J. M. Williams. 1,694,298; Dec. 4.
Crotonaldehyde from acetaldehyde and aldol, Manufacture of. E. Lüscher. 1,693,907; Dec. 4.
Crude-oil motor, High-pressure. E. Schaeren. 1,693,963; Dec. 4.
Cuff link. V. B. Rogers. 1,693,993; Dec. 4.
Current, Rectification of alternating. E. Y. Robinson. 1,693,668; Dec. 4.
Curtain rod. A. Diouhy. Des. 77,068–78; Dec. 4.
Cutting board, Meat. D. Macripo. 1,693,761; Dec. 4.
Cyclohexyl-substituted aliphatic acids. R. Adams and G. S. Hiers. 1,693,801; Dec. 4.
Decorating glass surfaces. K. Warga. 1,693,735; Dec. 4.
Deflector, Inner-tube. P. W. Lehman. 1,694,222; Dec. 4.
Delivery mechanism. A. M. Zuckerman. 1,693,632; Dec. 4.
Dental bridgework, Removable. E. Kellner and W. M. Goldwyn. 1,693,845; Dec. 4.
Dental chair. E. B. Wilford. 1,694,243; Dec. 4.
Direction control for trailing objects, Variable. T. L. Watts. 1,694,195; Dec. 4.
Direction indicator. H. E. Elrod. 1,693,918; Dec. 4.
Direction indicator. J. L. McGrane. Des. 77,112; Dec. 4.
Dish or article of analogous nature. L. Hecht. Des. 77,089; Dec. 4.
Dish or similar article, Covered. A. Weber. Des. 77,139; Dec. 4.
Dish, Soap. A. Schoenfelder. 1,694,235; Dec. 4.
Dispenser and use. C. Barbieri. 1,693,883; Dec. 4.
Dispenser, Conical-cup. C. Barbieri. 1,694,157; Dec. 4.
Display device. G. E. Chatillon. 1,693,591; Dec. 4.
Display device. G. A. Taylor. 1,694,024; Dec. 4.
Display rack. B. Coleman. 1,694,207; Dec. 4.
Display stand. G. S. Bailey. 1,693,802; Dec. 4.
Display stand. S. Sobel. Des. 77,132; Dec. 4.
Display stand, Dispensing. A. C. Crimmel. 1,693,592; Dec. 4.
Distillation residues, Reclaiming. R. E. Powell. 1,694,280; Dec. 4.
Distilling petroleum. H. H. Hewetson. 1,694,259; Dec. 4.
Ditcher. W. Doepke. 1,694,252; Dec. 4.
Diving apparatus for swimming pools. G. E. Rohmer. 1,693,669; Dec. 4.
Diving contrivance adapted for deep-sea diving. J.-G. Stein. 1,694,108; Dec. 4.
Door attachment, Screen-. O. V. Dusa. 1,694,168; Dec. 4.
Door buffer. A. R. Whittington. 1,694,297; Dec. 4.
Doorcheck. C. P. Olson. 1,693,860; Dec. 4.
Door for box cars, Grain. N. Johnson and L. H. Strasser. 1,694,180; Dec. 4.
Door-moving mechanism, Car-. W. W. Doty. 1,694,166; Dec. 4.
Door opening and closing mechanism. J. McMullen. 1,694,134; Dec. 4.
Doorstop. C. Blow. Des. 77,051; Dec. 4.
Dovetailing, cogging, and indenting machine. P. Böttcher. 1,694,115; Dec. 4.
Draft regulator. B. Goodman. 1,693,813–14; Dec. 4.
Drainer, Cellar. H. Gross. 1,694,199; Dec. 4.
Draining the main pipe of heating installations of railroad cars, Device for. H. Srulowitz. 1,694,289; Dec. 4.
Drawing and stamping presses, Shaft-control means for. H. J. Hinde. 1,694,063; Dec. 4.
Drier. E. P. Decker. 1,693,747; Dec. 4.
Drill chuck. W. Shore. 1,693,823; Dec. 4.
Drilling apparatus, Well-. G. R. Livergood. 1,693,609; Dec. 4.
Drilling machines, Chuck-positioning device and drill guide for. H. H. Knott. 1,693,904; Dec. 4.
Drive and driven device. G. H. Fraser. 1,694,008; Dec. 4.
Drying wood, Structure for. O. Engelbrektson. 1,693,777; Dec. 4.
Dust or dirt removing apparatus. S. Hagopian. 1,694,257; Dec. 4.
Dyes, Making triphenylmethane. R. M. Cole. 1,694,057; Dec. 4.
Dyestuffs and preparing the same, Azo. H. Eichwede. 1,694,117; Dec. 4.

Earth-working apparatus. W. A. Perry and G. D. Toy. 1,693,991; Dec. 4.
Easel stand. F. S. Saxton. Des. 77,127; Dec. 4.
Echo suppressor. H. Nyquist and K. W. Pfleger. 1,693,659; Dec. 4.
Edging implement, Lawn-. F. N. Catudal. 1,693,808; Dec. 4.
Elastic drive. C. A. Parsons and S. S. Cook. 1,693,763; Dec. 4.
Electric apparatus, Installation of. E. G. Schlberg. 1,694,288; Dec. 4.
Electric flasher. J. W. Phelps. 1,694,142; Dec. 4.
Electric heater, Portable. G. D. Hauser. 1,693,950; Dec. 4.
Electric heater, Portable. G. D. Hauser. 1,694,175; Dec. 4.
Electric light. C. J. Schroeder. 1,693,672; Dec. 4.
Electric machine, Dynamo-. K. L. Hansen. 1,694,062; Dec. 4.
Electric machines, System for excitation of synchronous type. P. H. Thomas. 1,693,968; Dec. 4.
Electric motor. S. F. Briggs. 1,694,247; Dec. 4.
Electric motor. A. E. Oswald. 1,693,617; Dec. 4.
Electric regulator. F. A. Byles. 1,694,249; Dec. 4.
Electric switch. W. A. Chryst. 1,693,998; Dec. 4.
Electric switch. J. J. Gough. 1,694,216; Dec. 4.
Electric switch. J. D. Hilliard. 1,694,261; Dec. 4.
Electric switch. J. D. Hilliard. 1,694,320; Dec. 4.
Electric switch. G. N. Lemmon. 1,694,223; Dec. 4.
Electric switch. S. Lippert. 1,693,608; Dec. 4.
Electric switch. W. K. Rankin. 1,694,282; Dec. 4.
Electric switch, Time-controlled. D. L. Chandler. 1,693,635; Dec. 4.
Electric-wire support. C. Salesas. 1,693,670; Dec. 4.
Electrical apparatus. E. F. W. Alexanderson. 1,694,244; Dec. 4.
Electrical apparatus. D. C. Prince. 1,694,281; Dec. 4.
Electrical resistance. W. Dubilier. 1,694,167; Dec. 4.
Electrical resistance. C. E. Vawter. 1,694,149; Dec. 4.
Electrode. H. W. Matheson and J. C. Smith. 1,693,794; Dec. 4.
Electrodeposition, Apparatus for. E. M. Wanamaker. 1,693,683; Dec. 4.
Electromagnetic device. W. B. Clarkson. 1,694,250; Dec. 4.
Electromechanical system. W. G. Cady. 1,693,806; Dec. 4.
Elevator system. H. Mason. 1,693,851; Dec. 4.
Engine: *See*—
Internal-combustion engine.
Engine and the like, Rotary. A. W. Davies. 1,694,208; Dec. 4.
Engine explosion pressure, Applying. C. L. Stokes. 1,693,733; Dec. 4.
Envelope, Band. L. A. Liebs. 1,693,791; Dec. 4.
Evacuator for drier drums, Water. W. H. Millspaugh. 1,693,934; Dec. 4.
Expansion joint. A. C. Fischer. 1,694,212; Dec. 4.
Extension for fly swatters. F. Lombard. 1,694,069; Dec. 4.
Extraction of water, oil, and fatty matter from solid material, Apparatus for. J. R. Sterling. 1,694,361; Dec. 4.
Extractor: *See*—
Oil extractor.
Fabric: *See*—
Bed-bottom fabric.
Face plates, Attachment of. F. J. Kristofek. 1,693,846; Dec. 4.
Fan, Electric. S. Good. 1,694,317; Dec. 4.
Fan, Portable. W. H. Ginder. 1,694,214; Dec. 4.
Fastener. V. Vogel. 1,693,913; Dec. 4.
Fastener, Bag-frame. J. Warburg. 1,694,152; Dec. 4.
Fastener covering and making same. C. E. Bradley and G. L. Van Dinter. 1,693,835; Dec. 4.
Fastener-covering method and means. C. E. Bradley and G. L. Van Dinter. 1,693,805; Dec. 4.
Fastener for doors, panels, and the like. H. Suck. 1,694,023; Dec. 4.
Fastener, Shoe. W. R. McClure. 1,694,101; Dec. 4.
Faucet and making same. L. G. Schimmel. 1,694,234; Dec. 4.
Faucet, Ball-joint. M. B. Spinelle. 1,693,676; Dec. 4.
Faucet, Fluid-measuring. H. C. Lyons. 1,693,719; Dec. 4.
Faucet Measuring. H. C. Lyons. 1,693,720; Dec. 4.
Faucet wrench. A. W. Wheaton, jr. 1,694,242; Dec. 4.
Faucets, Safety attachment for. H. G. Cordley and G. R. Long. 1,693,975; Dec. 4.
Feeding device, Intermittent. E. M. and F. M. Brackett. 1,694,202; Dec. 4.
Feeding device, Material-. T. F. Rainsford. 1,693,728; Dec. 4.
Feeding magazine for printing presses. A. and E. Kluge. 1,693,986; Dec. 4.
Feeding magazine for printing presses, Stock. A. and E. Kluge. 1,694,015; Dec. 4.
Feeds, Manufacturing of livestock. C. R. Mabee. 1,693,611–12; Dec. 4.
Fender guard, Automobile. G. W. Yanss. 1,694,198; Dec. 4.
Fighting bag. G. B. Thompson. 1,694,044; Dec. 4.
Filling boilers for cellulose with sulphite solution. H. Clemm. 1,693,999; Dec. 4.
Filter, Liquid. A. Wuest. 1,693,741; Dec. 4.
Filtering mechanism. C. F. Lienesch. 1,693,717; Dec. 4.
Finger ring. D. H. Shulan. Des. 77,131; Dec. 4.
Finishing machine. W. R. Barclay and F. B. Keall. 1,693,634; Dec. 4.
Fireback, Air-circulating. W. J. McCain. 1,693,614; Dec. 4.
Fire extinguisher, Portable liquid. K. Schmidt. 1,693,671; Dec. 4.
Firework, Detonating. H. Reihlen. 1,693,818; Dec. 4.
Fishplate, J. G. G. Coullie and J. L. Cadis. 1,693,775; Dec. 4.
Flexible coupling. S. Jencick. 1,694,064; Dec. 4.
Floor construction. E. N. Murphy. 1,693,655; Dec. 4.
Flower stand. R. M. Bauer. Des. 77,049; Dec. 4.
Fluid-pressure brake. T. H. Thomas. 1,693,943; Dec. 4.
Fluid-pressure brake. T. H. Thomas and C. A. Nelson. 1,693,627; Dec. 4.
Folding and cutting couple for folding machines. H. A. W. Wood. 1,694,300; Dec. 4.
Foot rest. E. G. du Moulin. 1,694,095; Dec. 4.
Footstool and leg rest. D. S. Sattler and F. H. McCuen. 1,694,146; Dec. 4.
Form for hollow wall construction, Adjustable and interchangeable. I. J. Kuert. 1,694,036; Dec. 4.
Forms for concrete work, Constructing and supporting. F. A. Tracey. 1,694,292; Dec. 4.
Fox ranch. L. A. Jordan. 1,693,756; Dec. 4.
Frame construction, Metallic. C. M. Thomson. 1,694,043; Dec. 4.
Frame for buildings. F. L. Purdy. Re17,154; Dec. 4.
Freight-transporting equipment. W. R. Kellett. 1,693,607; Dec. 4.
Frequency-changer apparatus. W. Weller. 1,694,296; Dec. 4.
Fruit-car brace. H. A. Whittemore. 1,694,026; Dec. 4.
Fuel, Compound. P. H. Lévèque. 1,693,790; Dec. 4.
Fuel furnace, Pulverulent-. C. Duquenne. 1,693,597; Dec. 4.
Furnace: *See*—
Fuel furnace. Steam-boiler furnace.
Furnace. F. H. Rosencrants. 1,694,144; Dec. 4.
Furnace for treating ores. F. M. Simonds. 1,693,702; Dec. 4.
Furnaces, Automatic flue control for. G. A. Tuck. 1,693,769; Dec. 4.
Fuse, Percussion and hydrostatic. A. Ogden. 1,693,661; Dec. 4.
Fuse plug. M. H. Terry. 1,693,679; Dec. 4.
Game, H. A. Liebermann. 1,694,068; Dec. 4.
Game, Card. O. N. Yamamoto. 1,694,029; Dec. 4.
Game counter and making the same. W. J. McNally. 1,694,103; Dec. 4.
Garment hanger. S. A. Schneider. 1,693,871; Dec. 4.
Gas heater. A. B. Sharp. 1,694,357; Dec. 4.
Gasket. P. T. Sywert. 1,694,291; Dec. 4.
Gate: *See*—
Crossing gate.
Gauge: *See*—
Length gauge. Valve stem and pressure gauge.
Gear. E. Wildhaber. 1,693,740; Dec. 4.
Gear. E. Wildhaber. 1,694,028; Dec. 4.
Gear, Combined reverse and reduction. E. H. Fahrney. 1,693,645; Dec. 4.
Gear, Power reverse. M. H. Roberts. 1,694,143; Dec. 4.
Gear transmission. L. K. Braren. 1,694,031; Dec. 4.
Gearing. E. Wildhaber. 1,694,027; Dec. 4.
Gearing, Producing curved tooth. E. Wildhaber. 1,693,686; Dec. 4.
Gears, Producing. E. Wildhaber. 1,693,687; Dec. 4.
Generator assembly for motor-cycle engines. C. B. Franklin. 1,693,696; Dec. 4.
Glass: *See*—
Hour glass.
Glass and producing the same, Laminated. J. W. H. Randall. 1,693,729; Dec. 4.
Glass-blowing machine. M. Jaeger. 1,693,843; Dec. 4.
Gluing machine. R. C. Jones. 1,693,600; Dec. 4.
Gocart and crib, Convertible. S. R. Allen. 1,693,633; Dec. 4.
Grading and distributing machine, Automatic top-lift. L. A. Cogswell. 1,693,638; Dec. 4.
Graphite or similar material, Apparatus for abrading. L. S. Watres. 1,693,736; Dec. 4.
Grate bar. H. K. Eilers. 1,693,710; Dec. 4.
Grate, Traveling chain. J. Van Brunt. 1,693,628; Dec. 4.
Gravity system for continuously treating boiler water. C. T. McGill. 1,694,331; Dec. 4.
Grease-charging apparatus. H. J. Engbrecht. 1,694,096; Dec. 4.
Grid leak. L. C. F. Horle. 1,693,899; Dec. 4.
Grinding machine. R. C. Mitchell. 1,693,723; Dec. 4.
Grinding machine. H. G. Weinland. 1,694,340; Dec. 4.
Grinding machines, Attachments for. J. Martone. 1,694,074; Dec. 4.
Ground box. R. M. Robinson. 1,693,868; Dec. 4.
Guard, Cattle. F. Lockett. 1,694,128; Dec. 4.
Guide track for screen construction. H. Dixson. 1,694,314; Dec. 4.
Gun mounting. J. B. Henderson. 1,693,712; Dec. 4.
Gun mounting and traveling carriage therefor. A. T. Dawson and G. T. Buckham. 1,693,692; Dec. 4.
Gun, Spray. G. A. Mueller. 1,694,078; Dec. 4.
Hæmacytometer counting chamber. O. Risch. 1,693,961; Dec. 4.
Hair dye. M. A. Mingus. Re17,153; Dec. 4.





Hammer, Electric. M. Santa Ana. 1,694,284; Dec. 4.
Hand, Mechanical. C. C. Coon. 1,694,058; Dec. 4.
Handle for smoking stands or similar articles. J. Zweig. Des. 77,142; Dec. 4.
Hanger: *See*—
Garment hanger.
Hanger and brush, Combined coat. Y. Sumi. Des. 77,134; Dec. 4.
Harness. G. Benford. 1,693,743; Dec. 4.
Headlight, Dirigible. W. R. Hose. 1,693,900; Dec. 4.
Headlights, Manufacture of. W. H. Wood. Re17,155; Dec. 4.
Health table, Neuropathic. M. Daniels and A. J. Wood. 1,693,810; Dec. 4.
Heat indicator for automotive internal-combustion engines, Spherical. H. C. Hebig. 1,693,984; Dec. 4.
Heater: *See*—
Air heater. Electric heater.
Convection heater. Gas heater.
Heating apparatus. W. H. Sommer. 1,694,191; Dec. 4.
Heating control system. G. H. Jump. 1,694,323; Dec. 4.
Heating system. D. Dana. 1,694,001; Dec. 4.
Heating system. M. R. Plunkett. 1,694,080; Dec. 4.
Heating unit. W. E. Hudson. 1,694,178; Dec. 4.
Hinge. U. G. Peterson. 1,693,992; Dec. 4.
Hinge strap or similar article. C. E. Horton. Des. 77,093–4; Dec. 4.
Hitch, Wagon-tractor. J. H. Sether. 1,693,673; Dec. 4.
Holder, Combined button and license-paper. H. E. Butler. 1,694,310; Dec. 4.
Holder, Cosmetic-pad. W. G. Kendall. 1,694,325; Dec. 4.
Holder, Flowerpot. H. P. Hanson. 1,693,896; Dec. 4.
Holder for floor polishers, Brush. L. N. Gillis. 1,693,919; Dec. 4.
Holder for gummed-tape-serving machines, Roll. W. A. Uttz, sr. 1,693,877; Dec. 4.
Holder, Greeting-card storing and displaying. C. Spaulding. 1,683,622; Dec. 4.
Holder, Neckwear. L. Stoltenberg. 1,693,826; Dec. 4.
Holder, Paint-can. A. G. Allen. 1,693,772; Dec. 4.
Holder, Sack. W. H. Nicholas. 1,694,079; Dec. 4.
Holder, Shade. F. Wening. 1,694,047; Dec. 4.
Holder, Toothpick. T. Bartholomew. 1,694,200; Dec. 4.
Holding device for tire expanders, Splice-. T. Midgley. 1,694,227; Dec. 4.
Honing razors and other knives, Composition of matter for use in. W. Hafner. 1,693,697; Dec. 4.
Hosiery and producing same, Reenforced. L. Kaplan. 1,694,324; Dec. 4.
Hour glass. L. P. Denny. 1,694,059; Dec. 4.
Humidity variations, System for detecting and controlling. W. R. Starkins. 1,694,107; Dec. 4.
Husking, podding, brushing, or treating grain, Machine for. L. Kaspar. 1,693,953; Dec. 4.
Hydrocarbon products, Preparing. N. E. Loomis. 1,694,272; Dec. 4.
Hydrocarbons into lower-boiling products, Converting. F. A. Howard. 1,694,262; Dec. 4.
Hydrometer. H. Neuwirth. 1,694,188; Dec. 4.
Igniting, Electric fuel. W. K. Booth. 1,694,053; Dec. 4.
Impact sections for a vehicle bumper. H. S. Jandus. Des. 77,101; Dec. 4.
Impregnating solution. L. V. Redman and H. C. Cheetham. 1,693,939; Dec. 4.
Impregnating wood with substances toxic to animal and bacterial life and fungus growths. C. B. Lipman and A. Gordon. 1,693,930; Dec. 4.
Impulse-testing equipment. M. L. Nelson. 1,693,725; Dec. 4.
Indicating devices. R. E. Booth. 1,694,307; Dec. 4.
Indicator: *See*—
Direction indicator. Oiling indicator.
Lubrication indicator. Service indicator.
Indicator device. F. H. White. 1,694,048; Dec. 4.
Induction apparatus, Electric. H. Grünholz. 1,694,318; Dec. 4.
Induction motor, Self-starting. K. L. Hansen and W. J. Oesterlein. 1,694,061; Dec. 4.
Injector, Capsule. F. C. Boyne. 1,694,246; Dec. 4.
Inking roller and projecting journal supports of same, Printer's. W. C. Hart. 1,694,217; Dec. 4.
Inlet box. H. D. Symonds and H. J. Cullen. 1,694,347; Dec. 4.
Instrument panel. J. T. Fitzsimmons. 1,694,006; Dec. 4.
Insulator structure. W. K. Naylor. Re17,150; Dec. 4.
Intermittent exhibiting device, Automatic. J. Gage. 1,693,893; Dec. 4.
Internal-combustion engine. F. Lang. 1,694,269; Dec. 4.
Internal-combustion engine. R. J. Lee. 1,694,098; Dec. 4.
Internal-combustion engine. J. G. Vincent. 1,693,832; Dec. 4.
Iron, Apparatus for the manufacture of pig. G. de Bethune. 1,693,916; Dec. 4.
Iron stand. C. Schulthess. 1,694,236; Dec. 4.
Ironing-board appliance. R. J. McJohn. 1,693,615; Dec. 4.
Jack for self-propelling vehicles. M. W. McCoy. 1,694,076; Dec. 4.
Joint: *See*—
Ball-and-socket joint. Oscillating joint.
Expansion joint. Universal joint.
Joint for tubular structures. H. Thum. 1,693,680; Dec. 4.
Joint—semihexagonal type, Combined expansion and contraction. A. C. Fischer. 1,694,213; Dec. 4.
Jointing tubular members. F. Faudi. 1,693,839; Dec. 4.
Joints, Making ball-and-socket. W. J. Fiegel and W. S. Enderick. 1,693,748; Dec. 4.
Knockdown tank. Z. T. Ellis. 1,693,695; Dec. 4.
Lamp, Electric. A. Friedrich and R. O. Powell. Des. 77,085; Dec. 4.
Lamp, Instrument-board. H. A. Douglas. 1,693,596; Dec. 4.
Lamp-post, Ready-built. H. M. Lloyd. 1,693,760; Dec. 4.
Lamp, Smoker's. W. Silverman. 1,693,620; Dec. 4.
Lamp, Therapeutic. W. T. Lewis. 1,694,067; Dec. 4.
Lamp, Windproof. D. J. G. Watkins. 1,693,704; Dec. 4.
Lantern. A. P. Seidell. Des. 77,130; Dec. 4.
Lantern body or article of analogous nature. L. Hecht. Des. 77,090; Dec. 4.
Latch. W. E. Worthen. 1,693,912; Dec. 4.
Latch, Spring. F. L. Borchert. 1,693,706; Dec. 4.
Leather, Manufacture of artificial. P. Magnus. 1,694,129; Dec. 4.
Leather, Manufacturing imitation. R. C. Hartong. 1,694,258; Dec. 4.
Length gauge, Journal-. W. N. Messimer. 1,694,333; Dec. 4.
Lifting mechanism, Friction screw-. S. Strunge. 1,693,624; Dec. 4.
Light: *See*—
Electric light.
Light and danger signal, Tail. S. D. Paddack and C. G. Williford. 1,693,936; Dec. 4.
Lighting and ignition system. J. H. Hunt. 1,693,985; Dec. 4.
Lighting fixture. J. L. Jaffe and R. J. Monroe. Des. 77,096; Dec. 4.
Lighting fixture and the like. D. Holt. 1,693,925; Dec. 4.
Lighting-fixture ring, Electric-. H. A. Buccini. Des. 77,056; Dec. 4.
Line clamp. C. E. Ramée. 1,693,960; Dec. 4.
Liner and applying same, Track. R. J. Wells. 1,693,878; Dec. 4.
Link mat. W. T. Bell. 1,693,803; Dec. 4.
Linoleum covering material, Manufacture of. A. Eisenstein. 1,693,917; Dec. 4.
Liquor, Making raw calcium-bisulphate digesting. G. A. Richter. 1,694,231; Dec. 4.
Liquors from chambers, automatic fountains, and the like devices, Automatically discharging. G. Murray and V. O. Simpkins. 1,694,335; Dec. 4.
Lithopone fast to light, Producing. G. Jantsch and P. Wolski. 1,693,902; Dec. 4.
Loader. J. J. Koelbel. 1,694,344; Dec. 4.
Loading device, Mechanical. G. F. Royer. 1,694,145; Dec. 4.
Locating the point of escape of a fluid from concealed pipes, Method and apparatus for. W. B. Weldon. 1,693,737; Dec. 4.
Lock: *See*—
Valve lock.
Lock. C. F. Sioberg. 1,693,731; Dec. 4.
Lock and ignition-switch-actuating mechanism, Gear-shifting lever. J. L. Hosford. 1,694,011; Dec. 4.
Lock for ignition and lighting switches. W. Kaisling. 1,693,844; Dec. 4.
Locking device for automobiles. E. J. Martel. 1,693,762; Dec. 4.
Locking plug for extension cords. C. Calkins. 1,694,056; Dec. 4.
Loom, Circular. O. A. Frederickson. 1,694,254; Dec. 4.
Loom temples, Spring for thread-cutting. W. I. Stimpson. 1,693,942; Dec. 4.
Looms, Warp stop mechanism for. H. A. Davis. 1,693,776; Dec. 4.
Lubricating mechanism. R. E. Langmack. 1,693,788; Dec. 4.
Lubrication and apparatus therefor. L. S. Watres. 1,694,153; Dec. 4.
Lubrication indicator, Automobile. L. T. McMenemy. 1,694,102; Dec. 4.
Lubrication of textile machines, Dry. J. Spalding. 1,694,148; Dec. 4.
Machine for casting curved stereoplates. C. Winkler. 1,694,299; Dec. 4.
Machine for cutting gear teeth. W. E. Sykes. 1,694,041–2; Dec. 4.
Machine for cutting match splints. S. E. Rahe. 1,693,937; Dec. 4.
Machine for decorticating, scouring, and polishing cereals. W. Lee. 1,693,847; Dec. 4.
Machine for expressing juice from fruit, chopping meat, etc. A. F. Kaptuller. 1,693,757; Dec. 4.
Machine for feeding blanks. H. S. Labombarde. 1,693,928; Dec. 4.
Machine for grinding gears. B. M. W. Hanson. 1,693,781; Dec. 4.
Machine for making absorbent rolls. E. B. Glomstead and J. A. Williamson. 1,693,749; Dec. 4.
Machine for making automobile doors. W. H. D'Ardenne. 1,693,643; Dec. 4.
Machine for making match cards. S. E. Rahe. 1,693,938; Dec. 4.
Machine for operating on shoes. A. F. Pym. 1,693,667; Dec. 4.
Machine for preparation of molder's sand. G. F. Royer. 1,694,355; Dec. 4.
Machine for slicing cheese. E. E. Holle. 1,693,605; Dec. 4.
Machine for testing shock absorbers. G. W. Elsey. 1,694,005; Dec. 4.

Magnesium compound and producing the same. F. Crossley. 1,694,341; Dec. 4.
Mail box. G. G. Mirlach. 1,694,334; Dec. 4.
Mail-box post. S. B. Hale. 1,693,698; Dec. 4.
Manicuring implement. J. R. Neidig. 1,694,336; Dec. 4.
Manipulator, Cash-fare. W. D. Scalf. 1,694,285; Dec. 4.
Marker, Grave. H. C. Way. 1,694,196; Dec. 4.
Mat: *See*—
Link mat.
Mechanism for preventing lost motion. R. B. Lewis. 1,694,188; Dec. 4.
Membrane, Ultrafilter. J. Duclaux. 1,693,890; Dec. 4.
Mercury rectifier. C. Krämer. 1,694,328; Dec. 4.
Metal can, Multiple-ply sanitary. A. Moore. 1,693,956; Dec. 4.
Metal chair. E. F. Trudo. 1,694,293; Dec. 4.
Metal pipe, Sheet-. J. D. Smith. 1,693,621; Dec. 4.
Metal stringing and making the same, Elastic. W. A. Larned. 1,694,360; Dec. 4.
Mirror, Automobile. N. A. Pearson. Des. 77,119; Dec. 4.
Mirror frame. J. Turner. Des. 77,135; Dec. 4.
Mixer: *See*—
Rotary mixer.
Mixer. A. Moyer. 1,694,137; Dec. 4.
Mixing machine. L. J. B. Blake. 1,693,688; Dec. 4.
Mold: *See*—
Building-block mold.
Mold. R. J. Weaver. 1,694,025; Dec. 4.
Mold for centrifugal pipe casting. J. H. Uhrig. 1,693,703; Dec. 4.
Molds, Method of and means for making. C. M. Mallory. 1,694,130; Dec. 4.
Molding machine, Concrete-. T. McQuain. 1,693,852; Dec. 4.
Motor: *See*—
Crude-oil motor. Induction motor.
Electric motor.
Monument. T. W. Fox. Des. 77,084; Dec. 4.
Mothproofing substance and preparing it. L. E. Jackson and H. E. Wassell. 1,694,219; Dec. 4.
Motor-regulating system, Induction-. W. Weller. 1,694,241; Dec. 4.
Mounting for brake gears. S. J. Strid. Re17,151; Dec. 4.
Mounting for electrical devices. T. A. Both. 1,694,159; Dec. 4.
Musical instrument. J. E. Hillebrandt. 1,693,924; Dec. 4.
Musical instruments, Shutter-control mechanism for. J. H. Hammond, jr. 1,693,751; Dec. 4.
Nail expansion. J. Karitzky. 1,694,266; Dec. 4.
Napkin, Infantile. M. Budwig and J. N. Schneider. 1,694,161; Dec. 4.
Nozzle for oil burners. C. L. Rayfield. 1,693,866; Dec. 4.
Nozzle, Nonclogging spray. A. L. Webre. 1,693,629; Dec. 4.
Oil and gas separator. D. G. Lorraine. 1,693,849; Dec. 4.
Oil burner. M. St. Clair. 1,693,623; Dec. 4.
Oil-burner plants, Burner head for. C. W. Johnson. 1,694,012; Dec. 4.
Oil-burning engine. E. A. Sperry. 1,693,966; Dec. 4.
Oilcloth. H. W. Dieck. Des. 77,058–67; Dec. 4.
Oil extractor. T. C. Whitehead. 1,693,738; Dec. 4.
Oiling indicator. J. M. Edwards. 1,693,812; Dec. 4.
Oils, Converting hydrocarbon. O. C. Brewster. 1,694,092; Dec. 4.
Organ. S. Michnievitch. 1,693,933; Dec. 4.
Organ control. J. H. Hammond, jr. 1,693,752; Dec. 4.
Ornament for radiators of motor cars. H. S. Hewitt. Des. 77,092; Dec. 4.
Ornament, Radiator. E. T. Greeley. Des. 77,087–8; Dec. 4.
Ornament, Radiator-cap. F. Rivanov. Des. 77,121–2; Dec. 4.
Oscillating joint. H. D. Geyer. 1,693,981; Dec. 4.
Oxidation of organic compounds, Catalytic. A. O. Jaeger. 1,694,122; Dec. 4.
Oven. E. Fernandez. 1,694,211; Dec. 4.
Oven construction. T. E. Taylor. 1,693,625; Dec. 4.
Packaging machine, Ice-cream-. F. X. Kuhn. 1,693,988; Dec. 4.
Panel, Electric fuse. A. W. Minott. 1,693,854; Dec. 4.
Panel joint for automobile bodies and making the same. O. J. Groehn. 1,693,750; Dec. 4.
Paper machines, Apparatus for controlling the drying operation in. G. S. Witham, jr. 1,694,349; Dec. 4.
Pencil, Eyebrow. E. D. Payne. 1,693,990; Dec. 4.
Perimeter. C. E. and G. R. Ferree. 1,693,979; Dec. 4.
Petrolatum from oils, Removal of. C. Zweig. 1,694,090; Dec. 4.
Phenolphthalein and making same, Finely-divided. E. B. Putt. 1,693,666; Dec. 4.
Photo-electric cell. S. Ruben. 1,694,190; Dec. 4.
Photographic printer. V. J. Dunker. 1,693,891; Dec. 4.
Picture projector, Motion-. H. C. Wellman. 1,694,110–11; Dec. 4.
Pipe: *See*—
Metal pipe.
Piston ring. F. E. Clark. 1,694,311; Dec. 4.
Pitting machine, Cherry-. C. T. Howson. 1,694,263; Dec. 4.
Plaster board and the like. W. H. Kobbé. 1,693,716; Dec. 4.
Plaster products, Hardened. W. H. Kobbé. 1,693,715; Dec. 4.
Plate for vehicle bumpers, Mask. H. S. Jandus and N. Van Husen. Des. 77,098; Dec. 4.
Plate or similar article. B. A. Dolan. Des. 77,080; Dec. 4.
Plate or similar article. E. Magnussen. Des. 77,108; Dec. 4.
Plate punching and finishing means. T. A. Waggett. 1,694,045; Dec. 4.
Plow and soil pulverizer, Combined. G. H. Hall. 1,693,895; Dec. 4.
Plug, Attachment. F. L. Aimé. 1,693,972; Dec. 4.
Plug, Crank-shaft oil. G. D. Angle. 1,693,882; Dec. 4.
Polishing and rubbing machine, Panel. K. A. Weber. 1,694,046; Dec. 4.
Polishing pad for lenses and making same. J. D. Gamble. 1,693,598; Dec. 4.
Post: *See*—
Binding post. Mail-box post.
Lamp-post.
Press. F. V. Anderson. 1,694,114; Dec. 4.
Press for cutting or punching sheet material. J. R. Oliver. 1,693,726; Dec. 4.
Pressing machine and the like, Clothes-. J. Lepler. 1,694,224; Dec. 4.
Priming apparatus. C. L. Stokes. 1,693,732; Dec. 4.
Printing attachment for wrapping machines. P. Pierce. 1,693,864; Dec. 4.
Printing machinery. W. E. Molins and C. Best. 1,694,038; Dec. 4.
Projecting stars, Device for. W. Villiger and W. Bauersfeld. 1,693,969; Dec. 4.
Protecting device, Pole-. N. J. Tockar. 1,694,100; Dec. 4.
Protection of animal fibers against the effects of alkaline or acid mediums. R. S. Horsfall and L. G. Lawrie. 1,693,926; Dec. 4.
Pump base. D. D. Myers. 1,693,858; Dec. 4.
Pump for atomizers. R. Menschel. 1,694,104; Dec. 4.
Pump, Rotary. J. E. Le Bus. 1,694,329; Dec. 4.
Pumps, Grip cage grab for deep-well. A. B. McCain. 1,693,764; Dec. 4.
Purification of benzoic acid and its derivatives. A. O. Jaeger. 1,694,124; Dec. 4.
Puzzle. E. F. L. Fritz. 1,693,711; Dec. 4.
Rabbit hutch. W. Sheehy. 1,694,082; Dec. 4.
Radiator. N. Diamant. 1,694,004; Dec. 4.
Radiator. D. T. MacLeod. 1,694,352; Dec. 4.
Radiator, Automobile. A. L. Knapp. Des. 77,102; Dec. 4.
Radiator cap for automobiles. L. A. Bean. 1,694,030; Dec. 4.
Radiator, Convertible steam and hot-water. L. G. Bostedo. 1,694,201; Dec. 4.
Radiator-front cover. M. Switzer. 1,694,358; Dec. 4.
Radiator structure. G. E. Otis. 1,693,618; Dec. 4.
Radiomachine, Duplex. C. F. Jenkins. 1,694,065; Dec. 4.
Radio signaling system. R. S. Ohl. 1,693,662; Dec. 4.
Rack: *See*—
Display rack.
Rail brace. J. C. Mock. 1,694,136; Dec. 4.
Rail for heat-treating furnaces, Roller. J. Sammon. 1,693,870; Dec. 4.
Railway roadbed. W. Dalton. 1,694,313; Dec. 4.
Razor, Safety. J. Oberheim. 1,694,337; Dec. 4.
Receptacle, Electric. J. W. Phelps. 1,694,141; Dec. 4.
Recording means. H. L. Merrick. 1,693,701; Dec. 4.
Rectifying system. H. F. Waite. 1,694,151; Dec. 4.
Reduction device, Split. J. C. McCune. 1,693,652; Dec. 4.
Reduction device, Split. T. H. Thomas. 1,693,626; Dec. 4.
Reed chair. E. R. McElligott. Des. 77,111; Dec. 4.
Reel for conducting cords. C. Blessman, jr. 1,693,884; Dec. 4.
Reenforcing device for sides of perforations. L. A. Gale. 1,693,648; Dec. 4.
Refining wood rosin. G. E. Jenks. 1,694,179; Dec. 4.
Refrigerating apparatus. B. C. von Platen and C. G. Munters. 1,693,970; Dec. 4.
Refrigerating apparatus. Z. Wirt. 1,694,156; Dec. 4.
Refrigerator, Display. A. H. Siebert. 1,694,147; Dec. 4.
Register: *See*—
Autographic register.
Register for telephone systems, Call. H. M. Friendly. 1,694,169; Dec. 4.
Registering apparatus. C. W. Martin. 1,693,763; Dec. 4.
Regulating system. P. W. Forsberg. 1,694,253; Dec. 4.
Regulator: *See*—
Draft regulator. Temperature regulator.
Electric regulator.
Reproducing position. E. J. Murphy and L. P. Hutt. 1,694,277; Dec. 4.
Resistance switch. O. Lundberg. 1,694,330; Dec. 4.
Resistance unit. E. R. Stoekle. 1,693,825; Dec. 4.
Retainer for rock drills, Steel. L. L. Richardson. 1,694,106; Dec. 4.
Reversing mechanism. H. A. Tuttle. 1,694,294–5; Dec. 4.
Rim for pneumatic tires. A. J. Michelin. 1,693,909; Dec. 4.
Ring: *See*—
Piston ring.
Road. L. H. Callan. 1,693,807; Dec. 4.
Road edgings, Method and apparatus for making. V. O. Johnston. 1,693,903; Dec. 4.
Roll for rolling metals and making same. F. D. Corbin. 1,694,251; Dec. 4.
Rotary mixer. L. H. Nelles. 1,693,935; Dec. 4.
Rug or similar article. L. S. Henderson. Des. 77,091; Dec. 4.
Running-board saddle. B. F. Rowley. 1,693,994; Dec. 4.





Safety appliance for brake beams. C. V. Marquart. 1,694,100; Dec. 4.
Safety switch. E. G. Johansson. 1,693,952; Dec. 4.
Safety switch. J. F. Lauper. 1,694,270; Dec. 4.
Sand collecting and treating machine. G. F. Royer. 1,694,356; Dec. 4.
Sand washer and separator. E. Garlick. 1,694,255; Dec. 4.
Sanding apparatus, Track-. H. Vissering and G. S. Turner. 1,693,944; Dec. 4.
Sash, door, or store-front construction. A. H. Davis. 1,694,003; Dec. 4.
Sash or store-front construction. A. H. Davis. 1,694,002; Dec. 4.
Saw. G. C. Voss. 1,694,150; Dec. 4.
Saw, Ice. D. M. King. 1,694,221; Dec. 4.
Screen. C. A. Shogren. 1,693,822; Dec. 4.
Screen for telephones or the like. E. L. Dunand. 1,693,709; Dec. 4.
Screening apparatus. S. D. Robins. 1,693,940; Dec. 4.
Screw pointing and threading machine. J. A. Arenz. 1,694,303; Dec. 4.
Screw-thread tap. H. Steinrück. 1,693,768; Dec. 4.
Sealer, Silo. A. J. Krebsach. 1,694,016; Dec. 4.
Searchlights, Safety stop for. M. L. Patterson. 1,694,039; Dec. 4.
Seat. W. E. B. Hasselkus. 1,693,782–3; Dec. 4.
Seat. R. C. Wilson. 1,693,770; Dec. 4.
Separation and liquefaction of gases. W. S. Bowen. 1,694,308; Dec. 4.
Separator: *See*—
Cotton separator. Oil and gas separator.
Service indicator, Automobile. J. P. Stevens and G. A. C. Bailey. 1,693,828; Dec. 4.
Sewer construction. G. F. Egan. 1,693,977–8; Dec. 4.
Sewing machine, Buttonhole-. A. F. Carlson. 1,694,093; Dec. 4.
Shade. W. von Nessen. Des. 77,138; Dec. 4.
Shafts, connecting rods, and the like, Making. F. Faudi. 1,693,838; Dec. 4.
Shells from nuts, Removing. J. F. Kohler. 1,694,182; Dec. 4.
Shield for vehicle brakes. G. R. Cunnington. 1,694,033; Dec. 4.
Shipping and display box, Combined. G. C. Miller. 1,694,017; Dec. 4.
Shipping drum. C. H. Rollason. 1,694,354; Dec. 4.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,693,921; Dec. 4.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,693,816; Dec. 4.
Shocker, Grain. I. L., C. N., and R. W. Dawson. 1,693,595; Dec. 4.
Shoe. L. J. Fitz Harris. Des. 77,082; Dec. 4.
Shoe. J. Schmeer. 1,693,911; Dec. 4.
Shoe, Ice grouser. W. Turnbull. 1,693,831; Dec. 4.
Shoe-shining apparatus. F. A. Groves. 1,693,601; Dec. 4.
Shoe, Water. P. Reinwald. 1,693,867; Dec. 4.
Shoes, Mechanism for making turn. M. L. Dodge. 1,693,976; Dec. 4.
Shovel or excavator, Power. B. C. Clutter. 1,693,809; Dec. 4.
Show case. C. W. Gale. 1,693,980; Dec. 4.
Shutter mechanism for photographic apparatus. J. Wolf. 1,694,113; Dec. 4.
Sign flashing mechanism, Illuminated. P. H. Schnormeier. 1,693,820; Dec. 4.
Sign, Road. L. L. Perdue. Des. 77,120; Dec. 4.
Signs, lamp shades, and other like articles, Method and apparatus for making display. W. E. Price. 1,693,817; Dec. 4.
Signal: *See*—
Traffic signal.
Signal device for automobiles. H. L. Le Blanc. 1,694,345; Dec. 4.
Signal device, Tire-deflation. R. W. Rider. 1,694,232; Dec. 4.
Signaling device. H. W. Henry. 1,694,010; Dec. 4.
Signaling system and mechanism. L. E. Oneal. 1,693,663; Dec. 4.
Silicate and producing same, Water-softening. E. W. Shawen and A. C. Arnett. 1,693,873; Dec. 4.
Skate, Tracklaying. F. Buitenkamp. 1,694,162; Dec. 4.
Sled attachment for motor vehicles. A. Otto. 1,693,862; Dec. 4.
Sled runner for automobiles. B. Golembiewski. 1,694,215; Dec. 4.
Slip sheeting and practicing the same. H. and E. Caton and L. C. Howard. 1,693,886; Dec. 4.
Smoke box. J. E. Covey. 1,694,163; Dec. 4.
Smoker's outfit and receptacle for game accessories, Combined. H. L. Long. Des. 77,107; Dec. 4.
Snow plow. R. C. Greenwood. 1,694,174; Dec. 4.
Socket and friction band stem, Ball-bearing. W. H. Noelting. 1,693,657; Dec. 4.
Socket and slide, Combination plate-caster. W. H. Noelting. 1,693,658; Dec. 4.
Sodium bisulphate, Production of. J. N. Carothers and C. F. Booth. 1,693,947; Dec. 4.
Sound amplifier. T. Young. 1,693,771; Dec. 4.
Sound, Apparatus for producing. E. C. Guedon. 1,694,319; Dec. 4.
Speed-control system. J. I. Hull. 1,694,321–2; Dec. 4.
Spicing machine, Tube. H. D. Stevens. 1,694,238; Dec. 4.
Spooling device, Cable-. E. N. Unruh, jr. 1,693,876; Dec. 4.
Spraying hydrocarbon fuel, Device for. H. E. Davis. 1,694,209; Dec. 4.
Spring assembly, Antifriction air-. J. A. Heany. 1,693,603; Dec. 4.
Spring cushion and the like. C. P. Trimble. 1,694,359; Dec. 4.
Stamp-affixing machine. J. D. Smith and C. R. Phillips. 1,693,965; Dec. 4.
Stanchion, Marine rail. J. R. Schalk. Des. 77,128; Dec. 4.
Stand: *See*—
Boiler stand. Iron stand.
Display stand.
Station indicator for radio sets. N. P. Fuchs, jr. 1,693,892; Dec. 4.
Statue. A. B. N. Moss. Des. 77,114; Dec. 4.
Statuette. S. I. Berger. Des. 77,050; Dec. 4.
Steam boiler. I. Harter. 1,693,602; Dec. 4.
Steam-boiler furnace. R. Kimmick. 1,694,014; Dec. 4.
Stills, Operation of pressure. J. E. Bell. 1,693,946; Dec. 4.
Stocking. G. L. Briggs. Des. 77,055; Dec. 4.
Stocking. G. W. Goetsch. Des. 77,086; Dec. 4.
Stocking. G. W. Goetsch. Des. 77,143; Dec. 4.
Stocking. E. O. Nebel. Des. 77,117; Dec. 4.
Stocking. A. Staudte. Des. 77,133; Dec. 4.
Stoker and burner, Combined coal. J. C. St. Clair. 1,694,290; Dec. 4.
Stove. H. Herrenbruck. 1,694,176; Dec. 4.
Stove, Electric cooking. J. C. Hollands. 1,693,784; Dec. 4.
Strainer. N. Wolkowich. 1,694,088; Dec. 4.
Strap attachment, Head-block. C. L. Snyder. 1,694,287; Dec. 4.
Strap fastener member, Shoe-. E. E. Weller. Des. 77,140; Dec. 4.
Stretcher, Adjustable wheel. G. A. Gallowitz. 1,694,172; Dec. 4.
Structural shapes, Method of and apparatus for the manufacture of. C. W. Koelkebeck. 1,693,987; Dec. 4.
Sulphur-silica composition. W. H. Kobbé. 1,693,714; Dec. 4.
Supplying apparatus. A. Latham. 1,693,650; Dec. 4.
Support and spacer, Bar. H. H. Lampert. 1,694,066; Dec. 4.
Support for nailing strips and the like. F. I. Grimm. 1,693,949; Dec. 4.
Support, Golf-bag. T. M. Dick. 1,693,889; Dec. 4.
Sweatbands, Making. H. Rappaport. 1,694,230; Dec. 4.
Swimming bladder. F. Franke. 1,693,779; Dec. 4.
Switch: *See*—
Clock-controlled switch. Resistance switch.
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Switching means for effecting electrotherapeutic treatment. M. R. Waggoner. 1,693,734; Dec. 4.
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Tappet for valves. R. W. Manning. 1,693,651; Dec. 4.
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Thread restorer. J. P. Nestor. 1,694,229; Dec. 4.
Throttle control, Reversing-propeller. C. F. Jenkins. 1,694,220; Dec. 4.
Time control of fuel injection for internal-combustion engines. E. L. Lowe. 1,693,932; Dec. 4.
Time-element device. L. S. Walle. 1,694,240; Dec. 4.
Tipping device for wagons. C. R. Sirot. 1,693,874; Dec. 4.
Tire. F. Kovacs. Des. 77,104–5; Dec. 4.
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Tractor. A. McDowall. 1,694,226; Dec. 4.
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Trailer for self-propelled vehicles. G. T. Ronk. 1,693,869; Dec. 4.
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Transmission of pictures, Electrical. E. F. W. Alexanderson. 1,694,301; Dec. 4.
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Umbrella rib and spreader structure and producing the same. F. Fabbrin. 1,693,948; Dec. 4.
Underfloor duct system. H. S. Walker. 1,693,682; Dec. 4.
Underframe for automobile vehicles. O. Windberger. 1,694,112; Dec. 4.
Universal joint. C. D. Cutting. 1,693,593–4; Dec. 4.
Valve. G. R. Wildern. 1,693,945; Dec. 4.
Valve, Alarm check. L. A. Grimes. 1,693,842; Dec. 4.
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Valve, Flush. C. R. Manion. 1,694,072; Dec. 4.
Valve for water-circulating systems, Check. N. I. Clark. 1,693,888; Dec. 4.
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Valve, Noiseless check. D. Sandford. 1,693,619; Dec. 4.
Valve, Rotary expansion. T. I. Potter. 1,693,863; Dec. 4.
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Water softener, Salt-pot attachment, Base-exchange. C. T. McGill. 1,694,332; Dec. 4.
Waving device, Hair-. F. R. Marcel. 1,694,073; Dec. 4.
Wax distributor for floor-polishing machines. T. A. Marshall. 1,693,908; Dec. 4.
Weed killer and killing weeds. R. N. Chipman. 1,694,205; Dec. 4.
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Wick, Burner. A. Heldrich. 1,693,604; Dec. 4.
Window cleaner. G. L. Baker and H. W. Pattilo. 1,694,245; Dec. 4.
Window guard. A. T. McWane. 1,693,853; Dec. 4.
Window-operating mechanism. Motor-vehicle bus-. L. L. Corcoran. 1,693,690; Dec. 4.
Window-shade fixture. J. W. Westendorf. 1,694,154; Dec. 4.
Windshield cleaner. J. X. Phillips, jr. 1,693,665; Dec. 4.
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Workholder. J. Edgar. 1,694,034; Dec. 4.
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Wrapping cheese. C. F. Doane. 1,693,694; Dec. 4.
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Wrench. W. I. O'Neill. 1,694,140; Dec. 4.
Wringer. S. E. Schroeder. 1,693,821; Dec. 4.
Yarns or threads, Production of artificial. G. Lardy. 1,693,759; Dec. 4.


# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 4, 1928.

NOTE.—First number—class, second number—subclass, third number—patent number.


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189— 1: R. 17,154
37: 1,693,660
191— 34: 1,693,914
192— 4: 1,694,181
17: 1,694,063
116.5: 1,693,763
193— 12: 1,694,019
34: 1,694,347
196— 12: 1,694,272
19: 1,694,090
48: 1,693,946
51: 1,694,262
65: 1,694,092

196— 106: 1,693,774
1,694,259
146: 1,694,280
197— 84: 1,693,796
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128: 1,693,705
138: 1,693,708
198— 10: 1,694,145
229: 1,694,228
200— 38: 1,693,721
39: 1,693,635
50: 1,693,854
52: 1,693,734
97: 1,694,250
106: 1,694,320
115.5: 1,694,141
1,694,142
130: 1,693,679
150: 1,694,261
1,694,282
155: 1,694,270
159: 1,693,998
163: 1,694,216
164: 1,693,608
166: 1,693,631
168: 1,693,952
201— 48: 1,694,330
63: 1,693,825
1,693,899
1,694,149
67: 1,694,178
76: 1,694,167
203— 4: 1,694,179
204— 5: 1,693,683
206— 40.6: 1,694,285
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1,694,017
47: 1,693,841
208— 34: 1,694,183
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209— 88: 1,693,638
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209— 238: 1,693,747
326: 1,693,940
502: 1,693,861
210— 24: 1,693,829
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33: 1,694,331
149: 1,694,088
154: 1,693,741
165: 1,693,717
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211— 63: 1,694,060
89: 1,693,826
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137: 1,693,802
163: 1,694,207
212— 21: 1,694,084
213— 22: 1,693,816
32: 1,693,921
214— 18: 1,693,870
77: 1,694,344
138: 1,693,809
215— 22: 1,693,879
38: 1,693,787
87: 1,693,830
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216— 55: 1,693,965
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218— 12: 1,693,650
219— 4: 1,694,081
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26: 1,694,256
34: 1,694,180
39: 1,694,351
40: 1,693,794
220— 5: 1,693,695
21: 1,693,906
24: 1,694,030
26: 1,693,857
31: 1,694,185
61: 1,694,354
66: 1,693,956
82: 1,694,024
88: 1,693,958
94: 1,693,819

220— 94: 1,694,165
221— 21: 1,694,304
47.1: 1,694,096
106: 1,693,719
114: 1,693,720
223— 61: 1,693,871
224— 29: 1,693,922
225— 21: 1,693,592
226— 2: 1,693,674
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229— 74: 1,693,791
92.8: 1,693,811
230— 95: 1,694,087
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274: 1,694,214
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235— 58: 1,694,009
59: 1,693,753
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236— 9: 1,694,323
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53: 1,694,289
237— 72: 1,694,201
238— 7: 1,694,313
9: 1,693,878
243: 1,693,775
292: 1,694,136
330: 1,693,804
240— 2: 1,693,620
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8.18: 1,693,936
11: 1,693,704
62: 1,693,900
73: 1,693,925
84: 1,693,760

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55.2: 1,693,877
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244— 2: 1,693,773
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245— 5: 1,694,094
246— 34: 1,694,339
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293: 1,694,298
247— 3: 1,693,682
23: 1,694,054
1,694,159
40: 1,693,630
248— 30.5: 1,693,615
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251— 6: 1,694,271
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156: 1,694,234
159: 1,693,676
166: 1,694,086
252— 3: 1,694,040
253— 26: 1,693,600
254— 7: 1,693,700
94: 1,694,076
100: 1,693,624
131: 1,694,173
255— 22: 1,693,609
257— 128: 1,694,004
130: 1,694,352
132: 1,694,388
139: 1,693,618
259— 82: 1,693,935
144: 1,694,355
260— 11: 1,694,268
65: 1,693,666

260— 65: 1,694,057
87: 1,694,117
108: 1,694,122
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112: 1,693,801
122: 1,693,915
138: 1,693,907
152: 1,694,127
168: 1,693,713
261— 72: 1,693,792
104: 1,694,089
262— 2: 1,693,954
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266— 21: 1,693,702
28: 1,693,916
267— 35: 1,693,608
54: 1,693,981
268— 6: 1,694,134
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270— 76: 1,694,300
271— 2.5: 1,693,728
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62: 1,693,986
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272— 40: 1,693,724
66: 1,693,669
78: 1,694,044
273— 132: 1,693,711
134: 1,694,068
152: 1,694,029
277— 11: 1,693,758
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279— 14: 1,693,823
280— 8: 1,693,862
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33.55: 1,694,278
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280— 99: 1,694,267
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282— 16: 1,693,982
287— 54: 1,693,680
90: 1,693,840
290— 1: 1,693,696
291— 5: 1,693,944
292— 70: 1,694,152
99: 1,694,023
204: 1,693,912
293— 55: 1,694,198
294— 110: 1,693,764
296— 20: 1,694,172
28: 1,693,836
1,694,007
29: 1,693,750
298— 19: 1,693,874
299— 6: 1,694,335
95: 1,693,671
114: 1,693,629
120: 1,693,906
141: 1,694,209
301— 37: 1,694,033
303— 6.1: 1,693,834
18: 1,693,626
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1,693,656
1,694,193
59: 1,693,943
88: 1,693,646
1,693,647
305— 10: 1,693,531
1,693,533
308— 74: 1,693,868
312— 38: 1,693,905
43: 1,694,157
44: 1,693,883
77: 1,694,200
119: 1,693,980

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# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott Finishing Corporation, The, Wakefield, Mass. Preparations for polishing or softening leather. 250,510; Dec. 11; Serial No. 269,067; published Sept. 18, 1928. Class 4.

Ackerman Door Interviewer Corp., New York, N. Y. Metal door wickets and grilles. 250,501; Dec. 11; Serial No. 269,215; published Sept. 25, 1928. Class 13.

Acme Wire Company, The, New Haven, Conn. Insulated electrical conductors. 72,677–9; renewed Feb. 9, 1929.

Acme Wire Company, The, New Haven, Conn. Electromagnets. 73,129; renewed Mar. 16, 1929.

Aeronautical Products Corporation, Naugatuck, Conn. Internal-combustion engines and parts thereof. 250,446; Dec. 11; Serial No. 270,784; published Sept. 25, 1928. Class 23.

Aeschbach, F., S. A., Aarau, Switzerland. Baking stoves. 250,538; Dec. 11; Serial No. 267,106; published Sept. 25, 1928. Class 34.

Aesthete, Inc., The, Chicago, Ill. Monthly magazine. 250,469; Dec. 11; Serial No. 270,452; published Sept. 18, 1928. Class 38.

African & Eastern Trading Co., Incorporated, New York, N. Y. Dates. 250,381; Dec. 11; Serial No. 270,364; published Sept. 25, 1928. Class 46.

Aktiengesellschaft Hommel's Haematogen, Zurich, Switzerland. Blood-forming and blood-improving preparation. 71,984; renewed Dec. 29, 1928.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 250,652; Dec. 11; Serial No. 268,525; published Sept. 18, 1928. Class 37.

Allen & Wheeler Co., The, Troy, Ohio. Wheat flour and corn meal. 72,780; renewed Feb. 23, 1929.

Altman, B., & Co., New York, N. Y. Dry goods. 250,429; Dec. 11; Serial No. 269,758; published Sept. 25, 1928. Class 42.

Altruline Company, The. (See Havener, Laura.)

American Fertilizing Company, Norfolk, Va. Fertilizers. 250,415; Dec. 11; Serial No. 270,162; published Sept. 25, 1928. Class 10.

American Implement Company, Newark, N. J. Hedge clippers. 250,442; Dec. 11; Serial No. 270,762; published Sept. 25, 1928. Class 23.

American Laundry Machinery Company, The, Norwood Station, Cincinnati, Ohio. Ironing machines. 250,500; Dec. 11; Serial No. 269,272; published Sept. 25, 1928. Class 24.

American Medical Publishing Company, The, New York, N. Y. Periodical published monthly. 250,405; Dec. 11; Serial No. 270,312; published Sept. 18, 1928. Class 38.

American Stores Company, Philadelphia, Pa. Wheat flour, eggs, and rolled oats. 250,385; Dec. 11; Serial No. 220,828; published Oct. 19, 1926. Class 46.

Amoskeag Manufacturing Company, assignor, by mesne assignments, to Amoskeag Manufacturing Company, Manchester, N. H., trustees. Gingham. 72,859; renewed Mar. 2, 1929.

Amoskeag Manufacturing Company, assignor, by mesne assignments, to Amoskeag Manufacturing Company, Manchester, N. H., trustees. Cotton goods woven in colors. 73,420; renewed Apr. 20, 1929.

Amtorg Trading Corporation, New York, N. Y. Matches. 250,481; Dec. 11; Serial No. 270,869; published Sept. 25, 1928. Class 9.

Anchor Drug Co., Sacramento, Calif. Blood purifier with cod-liver oil. 250,650; Dec. 11; Serial No. 268,570; published Sept. 25, 1928. Class 6.

Antiseptic Products Company, The, Denver, Colo. Protective dressing for wounds and sores. 250,497; Dec. 11; Serial No. 269,383; published Sept. 25, 1928. Class 6.

Architectural Cast Stone Co. (See Lachin, Victor.)

Arima Soap Paste Co. (See Johnson, Howard.)

Arizona Citrus Growers, Phoenix, Ariz. Fresh citrus fruits. 250,623–4; Dec. 11; Serial Nos. 271,330–1; published Oct. 2, 1928. Class 46.

Ark, Miles W., Rochester, N. Y. Magazine. 250,409; Dec. 11; Serial No. 270,274; published Sept. 18, 1928. Class 38.

Armstrong Cork & Insulation Company, Pittsburgh and Lancaster, Pa. Boards or sheets made of cork. 250,503; Dec. 11; Serial No. 269,176; published Sept. 11, 1928. Class 12.

Asher Manufacturing Company, Irvington, N. J. Cast-metal cylinders and extractors. 250,425; Dec. 11; Serial No. 269,819; published Sept. 25, 1928. Class 24.

Associated Paper Company, Chicago, Ill. Paper and paper products. 250,546; Dec. 11; Serial No. 266,639; published Sept. 18, 1928. Class 37.

Association of Newspaper Classified Advertising Managers, St. Louis, Mo. Monthly publication. 250,509; Dec. 11; Serial No. 269,076; published Sept. 18, 1928. Class 38.

Atkins, E. C., & Company, Indianapolis, Ind. All kinds of saws, etc. 250,666; Dec. 11; Serial No. 256,601; published Jan. 24, 1928. Class 23.

Bacmo-Postman Co. Inc. (See Blachner-Moses Co., The.)

Baily Davis, Joel, Co., The, Philadelphia, Pa. Hosiery. 73,087; renewed Mar. 16, 1929.

Baird Television Development Company, Limited, London, England. Apparatus for recording and reproducing views, scenes, etc. 250,553–4; Dec. 11; Serial Nos. 263,194–5; published Sept. 25, 1928. Class 26.

Barnett, Isador, doing business as Barnett Janitor Supply Co., New York, N. Y. Metal-polishing cream, soap powder, etc. 250,545; Dec. 11; Serial No. 266,706; published Sept. 18, 1928. Class 4.

Baugh and Sons Company, Philadelphia, Pa. Fertilizer. 250,694; Dec. 11. Class 10.

Beautext Company, San Francisco, Calif. Painters' decorating materials. 250,440; Dec. 11; Serial No. 269,505; published Sept. 25, 1928. Class 16.

Beaver Products Company, Inc., The, Buffalo, N. Y., assignor to Certain-teed Products Corporation, New York, N. Y. Wall board, fiber board, plaster board, etc. 250,399; Dec. 11; Serial No. 245,077; published Jan. 3, 1928. Class 12.

Bennett Pumps Corporation, The, Muskegon, Mich. Combined lubricant tank and nonmeasuring pump. 250,675; Dec. 11; Serial No. 251,163; published Sept. 20, 1927. Class 23.

Benson-Le Fort Co., Moorhead, Minn. Fresh potatoes. 250,588; Dec. 11; Serial No. 268,840; published Oct. 2, 1928. Class 46.

Berkowich, Solomon B., Baltimore, Md. Testing device for electric wiring systems. 250,711; Dec. 11. Class 21.

Bickmore Gall Cure Co., now by change of name to The Bickmore Company, Oldtown, Me. Healing salve for animals. 72,599; renewed Feb. 9, 1929.

Bishop & Babcock Manufacturing Company, The. (See Cleveland Faucet Co.)

Bissell, F., Company, The, Toledo, Ohio. Electric supplies. 73,134; renewed Mar. 16, 1929.

Bissirl, Adriano, doing business as B. C. Ree Co., Los Angeles, Calif. Foldable toy aeroplanes. 250,680; Dec. 11; Serial No. 270,006; published Sept. 18, 1928. Class 22.

Bituminis Corporation, San Francisco, Calif. Bituminous compounds and emulsions miscible in water. 250,563; Dec. 11; Serial No. 262,389; published Aug. 14, 1928. Class 12.

Blabon, George W., Company, The, Philadelphia, Pa. Hard-surfaced floor covering. 250,476; Dec. 11; Serial No. 270,819; published Sept. 25, 1928. Class 20.

Blachner-Moses Co., The, to Bacmo-Postman Co. Inc., New York and Gloversville, N. Y., successor. Cloth, leather, and silk gloves. 72,996; renewed Mar. 9, 1929.

Bliss Syrup Refining Co., to Bliss Syrup & Preserving Co., Kansas City, Mo., successor. Sorghum, molasses, and syrup. 73,172; renewed Mar. 23, 1929.

Block Bros. Clothing Co., St. Joseph, Mo. Overcoats, coats, vests, and trousers. 73,410; renewed Apr. 20, 1929.

Blume, Marcel, trading as Fairyland, Paris, France. Perfumery, lip sticks, etc. 250,519; Dec. 11; Serial No. 264,960; published Oct. 2, 1928. Class 6.

Bob, Dr. Medical Company, to Robert C. Dickinson, Erie, Pa., successor. Medicines. 71,434; renewed Nov. 24, 1928.

Bodle, R. D., Co. also doing business as Valley Fruit Canning Co., Seattle, Wash. Fresh, canned, and frozen fruits and fresh blackberries. 250,634–5; Dec. 11; Serial Nos. 267,926–7; published Oct. 2, 1928. Class 46.

Bond Foundry and Machine Company, Manheim, Pa. Steel casters. 250,408; Dec. 11; Serial No. 270,276; published Sept. 25, 1928. Class 13.

Booth, A., & Company, Chicago, Ill.; Baltimore, Md.; St. Paul, Duluth, and Minneapolis, Minn.; St. Louis, Mo.; Louisville, Ky.; Omaha, Nebr.; Indianapolis, Ind.; and Port Arthur, Canada, to Booth Fisheries Company, Chicago, Ill., successor. Canned salmon and canned oysters. 72,778; renewed Feb. 23, 1929.

Borden Company, The. (See New York, Condensed Milk Company, assignor.)

Borden's Condensed Milk Company, by change of name to The Borden Company, New York, N. Y. Condensed milk. 72,214; renewed Jan. 12, 1929.

Bradley Lumber Company of Arkansas, Warren, Ark. Hardwood flooring and trim. 250,655; Dec. 11; Serial No. 268,418; published Sept. 4, 1928. Class 12.

Brazos Valley Cotton Mills, The, Dallas and West, Tex. Cotton duck in the piece. 250,708; Dec. 11. Class 42.

Bresnick, Carl S., New York, N. Y. Razors, shears, scissors, etc. 250,452; Dec. 11; Serial No. 270,689; published Sept. 25, 1928. Class 23.

Browncone Co. Inc., Jersey City, N. J. Chemical preparations or solutions. 250,543; Dec. 11; Serial 266,787; published Oct. 2, 1928. Class 6.

Buffalo Bolt Company, North Tonawanda, N. Y. Bolts and screws. 73,356; renewed Apr. 13, 1929.

California Co-Operative Producers, San Francisco, Calif. Canned fruits, canned vegetables, etc. 250,606; Dec. 11; Serial No. 271,337; published Oct. 2, 1928. Class 46.

Cameron, Wm., & Co., Inc., Waco, Tex. Furniture. 250,676; Dec. 11; Serial No. 249,836; published Sept. 25, 1928. Class 32.

Capital Paper Company, Indianapolis, Ind. Wrapping paper. 250,535; Dec. 11; Serial No. 267,238; published Sept. 18, 1928. Class 37.

Capital Paper Company, Indianapolis, Ind. Toilet paper. 250,544; Dec. 11; Serial No. 266,713; published Sept. 18, 1928. Class 37.

Carpinteria Mutual Citrus Association, Carpinteria, Calif. Fresh citrus fruits. 250,578; Dec. 11; Serial No. 271,534; published Oct. 2, 1928. Class 46.

Celanese Corporation of America, New York, N. Y. Fabrics in the piece. 250; 584; Dec. 11; Serial No. 271,376; published Sept. 25, 1928. Class 42.

Cemroc, Inc., Cincinnati, Ohio. Building units. 250,517; Dec. 11; Serial No. 265,257; published Aug. 7, 1928. Class 12.

Certain-teed Corporation. (See Beaver Products Company, Inc., The, assignor.)

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 250,622; Dec. 11; Serial No. 271,166; published Sept. 25, 1928. Class 42.

Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 250 630; Dec. 11; Serial No. 268,079; published Sept. 25, 1928. Class 42.

Clark, Charles S., Co., New York, N. Y. Bridge-prize wrappings. 250,468; Dec. 11; Serial No. 270,463; published Sept. 18, 1928. Class 37.

Clark-Horrocks Co., to Horrocks-Ibbotson Company, Utica, N. Y., successor. Fishing tackle. 73,253–7; renewed Apr. 6, 1929.

Cleveland Faucet Co., to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, successor. Fluid-pressure regulators. 32,195; renewed Nov. 29, 1928.

Coast Cedar Shingle Company, Seattle, Wash. Wooden shingles. 250,648-9; Dec. 11; Serial Nos. 268,582-3; published Aug. 28, 1928. Class 12.

Coast Cedar Shingle Company, Seattle, Wash. Wooden shingles. 250,690; Dec. 11; Serial No. 268,584; published Aug. 28, 1928. Class 12.

Coats, Peter, doing business as Florimonde, Paisley, Scotland. Perfumery, toilet waters, lip sticks, etc. 250,496; Dec. 11; Serial No. 269,394; published Oct. 2, 1928. Class 6.

Colgate-Palmolive-Peet Company. (See Palmolive-Peet Company, The.)

Collings, William A., assignor to Silica Products Co., Los Angeles, Calif. Waterproofing material. 250,677; Dec. 11; Serial No. 249,512; published Aug. 7, 1928. Class 12.

Continental Pure Product Company. (See Polefsky, Jacob S.)

Continental Supply Company, The, St. Louis, Mo. Belting of rubber and fabric. 250,707; Dec. 11. Class 35.

Craig, Jay W., Minneapolis, Minn. Asphaltic surfacing material. 250,678; Dec. 11; Serial No. 248,090; published Aug. 7, 1928. Class 12.

Cummings, H. E., doing business as Livero Products Company, Jacksonville, Fla. Medicinal preparation. 250,511; Dec. 11; Serial No. 269,062; published Oct. 2, 1928. Class 6.

Currier, H. P., doing business as Currier Laboratories, Mendota, Ill. Medicine. 250 580; Dec. 11; Serial No. 271 476; published Oct. 2, 1928. Class 6.

Curtiss Candy Company, The, Chicago, Ill. Candy. 250,671; Dec. 11; Serial No. 258,693; published Oct. 2, 1928. Class 46.

Davey Tree Expert Company, The, Kent, Ohio. Tree-wound dressing. 250 527; Dec. 11; Serial No. 264,023; published Aug. 7, 1928. Class 12.

Davies, Theo. H., & Co., Ltd., Honolulu, Hawaii, to Theo. H. Davies & Co., Ltd., San Francisco, Calif. Canned salmon. 73,459; renewed Apr. 20, 1929.

Davies, Theo. H., & Co. Ltd., Honolulu, Hawaii, to Theo. H. Davies & Co. Ltd., San Francisco, Calif. Canned salmon. 73,461; renewed Apr. 20, 1929.

Degen, L. P., Belting Company, San Francisco, Calif. Leather belting, pump cups, valves, etc. 73,553; renewed Apr. 27, 1929.

De Nobili Cigar Company, New York, N. Y. Cigars. 250,597–8; Dec. 11; Serial Nos. 270,075-6; published Oct. 2, 1928. Class 17.

Denver Fire Clay Company, The, Denver, Colo. High-temperature cement or mortar. 250,717; Dec. 11. Class 12.

De Quesada, José Sanchiz, Marquis de Valderas, Madrid, Spain. Marble, uncut and partly cut. 250,714; Dec. 11. Class 1.

Detroit Stove Works, assignor to Detroit-Michigan Stove Co., Detroit, Mich. Stoves, furnaces, and ranges, and all parts thereof. 70,366; renewed Aug. 25, 1928.

Dickens Fellowship of New York Inc., The, New York, N. Y. Periodical publication. 250,412; Dec. 11; Serial No. 270,239; published Sept. 18, 1928. Class 38.

Dickinson, Robert C. (See Bob, Dr., Medical Company.)

Dirigold Corporation, The, Minneapolis, Minn. Spoons, knives, forks, etc. 250,390; Dec. 11; Serial No. 192,965; published Oct. 2, 1928. Class 23.

Dirigold Corporation, The, Minneapolis, Minn. Gravy ladles, tea strainers, napkin rings, plates, bowls, etc. 250 418; Dec. 11; Serial No. 226,641; published Apr. 19, 1927. Class 13.

Donaldson Company, Inc., St. Paul, Minn. Air cleaners for internal-combustion engines. 250,485–7; Dec. 11; Serial Nos. 270,917–19; published Sept. 25, 1928. Class 23.

Dougherty Grape Growers Association, Acampo and Dougherty, Calif. Fresh grapes. 250,668; Dec. 11; Serial No. 256,456; published Oct. 2, 1928. Class 46.

Duplex Steel Re-Enforcement Company, Liberty and Indianapolis, Ind. Steel reenforcing element. 250,689; Dec. 11; Serial No. 268,592; published Sept. 11, 1928. Class 12.

Du Pont Rayon Company, Buffalo, N. Y. Cellulose-acetate yarns, threads, and filaments. 250,477; Dec. 11; Serial No. 270,831; published Sept. 25, 1928. Class 43.

Du Pont Rayon Company, Buffalo, N. Y.. Cellulose-acetate yarns, threads, and filaments. 250,488; Dec. 11; Serial No. 270,920; published Sept. 25, 1928. Class 43.

Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Eddy, Newell A., Bay City, Mich. Trestle tables, settees, end tables, etc. 250,670; Dec. 11; Serial No. 255,552; published Sept. 25, 1928. Class 32.

Egan, Henry B., Muskogee, Okla. Tire-tube patches. 250,441; Dec. 11; Serial No. 270,766; published Oct. 2, 1928. Class 35.

Egyptian Lacquer Manufacturing Company, The, New York, N. Y Lacquers, lacquer enamels, varnishes, etc. 250,478–9; Dec. 11; Serial Nos. 270,833–4; published Sept. 25, 1928. Class 16.

Elberton Quarries Inc., Carlton, Ga. Quarried granite in blocks. 250,518; Dec. 11; Serial No. 265,201; published Aug. 21, 1928. Class 12.

Elliott Core Drilling Company, Los Angeles, Calif. Core drills and rotary drilling bits. 250,564; Dec. 11; Serial No. 262,071; published Sept. 25, 1928. Class 23.

Ellis, George F., doing business as Ellis at Fargo, N. Dak. Plastic material for making artificial dentures. 250,595; Dec. 11; Serial No. 270,120; published Sept. 25, 1928. Class 44.

Ernecke and Salmstein, to Ernecke and Salmstein Co., Chicago, Ill., successor. Enamel paint. 71,334; renewed Nov. 17, 1928.

Factor, Max, doing business as Max Factor & Co., Los Angeles, Calif. Theatrical make-ups. 250,507–8; Dec. 11; Serial Nos. 269,104–5; published Oct. 2, 1928. Class 6.

Factors-to-You Furniture Co. (See Goldberg, Michael.)

Fair, The, Chicago, Ill. Tennis rackets, tennis balls, and tennis nets. 73,135; renewed Mar. 16, 1929.

Fairchild Bros. & Foster, New York, N. Y. Extract of the spleen. 250,621; Dec. 11; Serial No. 271,175; published Sept. 25, 1928. Class 6.

Fairyland. (See Blume, Marcel.)

Faulkner, James A., Youngstown, Ohio. High-temperature cements. 250,722; Dec. 11. Class 12.

Fèvre & Cie., Paris, France. Uncut rock and marble. 250,701; Dec. 11. Class 1.

Fischer, Carl, Inc. (See Schoening, Michael E., assignor.)

Fitzpatrick, Orth, Warsaw, Ind. Paints, paint enamels, and varnishes. 250,703; Dec. 11. Class 16.

Flintkote Company, The, Boston, Mass. Composition roll roofing, composition shingles, etc. 250,528–9; Dec. 11; Serial Nos. 263,869–70; published Aug. 21, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Composition roofing shingles. 250,541; Dec. 11; Serial No. 266,858; published Aug. 21, 1928. Class 12.

Flintkote Company, The, Boston, Mass. Asphaltic composition roofing shingles. 250,643; Dec. 11; Serial No. 267,570; published Aug. 21, 1928. Class 12.

Flis, Stanislaw, and Mateusz Kasprzak, Gowanda, N. Y. Envelopes. 250 556; Dec. 11; Serial No. 263,052; published Sept. 18, 1928. Class 37.

Florimonde. (See Coats, Peter.)

Foldahome Manufacturing Company of California, San Francisco, Calif. Sectional camp cabins. 250,513; Dec. 11; Serial No. 265,783; published Aug. 7, 1928. Class 12.

Fort Smith Coffee Company, as assignee of Fort Smith Commission Company, assignor to Fort Smith Coffee Company, Fort Smith, Ark. Coffee. 72,453; renewed Jan. 26, 1929.

Fowler's Medicated Fruits, Paris, Tenn. Medicine. 250,647; Dec. 11; Serial No. 267,412; published Sept. 25, 1928. Class 6.

Franck, Clemence, San Francisco, Calif. Powder puffs. 250,489; Dec. 11; Serial No. 270,924; published Sept. 25, 1928. Class 29.

Franklin, Charles B., doing business as Franklin Chemical Co., New York, N. Y. Insecticides. 250 579; Dec. 11; Serial No. 271,485; published Oct. 2, 1928. Class 6.

Frink, Robert L., Lancaster, Ohio. Refractories and refractory materials. 250,659; Dec. 11; Serial No. 258,740; published Sept. 18, 1928. Class 12.

Froehlich, Robert M., doing business as Dr. Robert M. Froehlich, New York, N. Y. Alcohol massage lotions, body balms, cold cream, etc. 250,424; Dec. 11; Serial No. 269,841; published Oct. 2, 1928. Class 6.

Fromm, Frank H., doing business as F. H. Fromm & Company, Philadelphia, Pa. Canned fish. 250,574; Dec. 11; Serial No. 260,328; published Oct. 2, 1928. Class 46.

Fuller, W. P., & Co., San Francisco, Calif. Glass. 250,662; Dec. 11; Serial No. 257,977; published Sept. 25, 1928. Class 33.

Fuller, W. P., & Co., San Francisco, Calif. Glass. 250,669; Dec. 11; Serial No. 256,111; published Sept. 25, 1928. Class 33.

Garcia y Miranda, Juan M., Madrid, Spain. Soaps. 250,540; Dec. 11; Serial No. 266,871; published Sept. 18, 1928. Class 4.



Garlock Packing Company, The, Palmyra, N. Y. Cord plugs for cleaning condenser tubes. 250,480; Dec. 11; Serial No. 270,837; published Oct. 2, 1928. Class 13.

Georgia Chemical Works, Augusta, Ga. Fertilizers. 250,414; Dec. 11; Serial No. 270,181; published Sept. 25, 1928. Class 10.

Geraghty, Laurence F., Montgomery, Ala. Cigars. 250,499; Dec. 11; Serial No. 269,285; published Sept. 25, 1928. Class 17.

"Gervais." (See Gross, Oscar A.)

Gilkison, E. P., & Sons Company, Terre Haute, Ind. Camping trailers. 250,445; Dec. 11; Serial No. 270,744; published Oct. 2, 1928. Class 19.

Gilmore Oil Company, Los Angeles, Calif. Asphalt, asphaltic binder, cement, etc. 250,506; Dec. 11; Serial No. 269,112; published Sept. 4, 1928. Class 12.

Ginsberg, L., doing business as Guarantee Sheet Metal Specialty Co., Brooklyn, N. Y. Metal and sheet-metal articles. 250 594; Dec. 11; Serial No. 270,123; published Sept. 25, 1928. Class 32.

Glahnsohn Manufacturing Company, Glendale, Long Island, N. Y. Cheese slicers. 250,420; Dec. 11; Serial No. 270,407; published Sept. 25, 1928. Class 23.

Gleaner Combine Harvester Corporation, Independence, Mo. Combined harvester, thresher, and separator. 250,631; Dec. 11; Serial No. 268,036; published Sept. 25, 1928. Class 23.

Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets, slumber nets, and sport nets. 250,403; Dec. 11; Serial No. 270,333; published Sept. 25, 1928. Class 42.

Glemby's, S., Sons Co., Inc., New York, N. Y. Hair nets, slumber nets, and sport nets. 250,404; Dec. 11; Serial No. 270,331; published Sept. 25, 1928. Class 42.

Gmelnder, Charles L., jr., Macon, Ga. Portable home savings bank. 250,417; Dec. 11; Serial No. 230,392; published Oct. 21, 1928. Class 25.

Goldberg, Michael, doing business as Factors-to-You Furniture Co., Philadelphia, Pa. China closets, buffets, serving tables, etc. 250,402; Dec. 11; Serial No. 230,789; published Oct. 2, 1928. Class 32.

Goody Nut Shops, Detroit, Mich. Salted nuts and nuts. 250,575; Dec. 11; Serial No. 260,009; published Sept. 25, 1928. Class 46.

Gopher State Milling Company, Little Falls, Minn., to Northwestern Milling Company, Minneapolis, Minn., successor. Wheat flour. 71,810; renewed Dec. 15, 1928.

Gra-Car Ltd. (See Rietmann, John A., assignor.)

Grape Capsule Company, Allentown Pa. Soft gelatine capsules. 71,356; renewed Nov. 17, 1928.

Gross, Oscar A., doing business as "Gervais", New York, N. Y. Face and talc powder, lip sticks, perfumes, etc. 250,537; Dec. 11; Serial No. 267,193; published Sept. 25, 1928. Class 6.

Grueby Faience and Tile Company, Boston, Mass., and Philadelphia, Pa. Floor tiles, wall tiles, etc. 250,629; Dec. 11; Serial No. 268,093; published Aug. 28, 1928. Class 12.

Guarantee Sheet Metal Specialty Co. (See Ginsberg, I.)

Guittard Chocolate Co., San Francisco, Calif. Chocolate and cocoa and chocolate coating. 250 673; Dec. 11; Serial No. 251,832; published Sept. 25, 1928. Class 46.

Gulf Vegetable & Fruit Company, Inc., Weslaco, Tex. Fresh fruits. 250,439; Dec. 11; Serial No. 269,523; published Sept. 25, 1928. Class 46.

Guntrath-Lorenzen Co., Chicago, Ill. Dessert and pudding powder. 250,683; Dec. 11; Serial No. 269,958; published Sept. 18, 1928. Class 46.

Haas Brothers Fabrics Corporation, New York, N. Y. Piece goods. 250,617; Dec. 11; Serial No. 271,248; published Sept. 25, 1928. Class 42.

Hairoleum Company, Union City, N. J. Hair tonic or preparation. 250,593; Dec. 11; Serial No. 270,126; published Sept. 25, 1928. Class 6.

Hall & Ruckel, Inc., Brooklyn, N. Y. Depilatory powder and cream. 250,619; Dec. 11; Serial No. 271,184; published Sept. 25, 1928. Class 6.

Hanover Cordage Company, Hanover, Pa. Hemp twine. 250,616; Dec. 11; Serial No. 271,252; published Sept. 25, 1928. Class 7.

Hanover Cordage Company, Hanover, Pa. White fibre twines. 250 627; Dec. 11; Serial No. 271,254; published Sept. 25, 1928. Class 7.

Hanover Cordage Company, Hanover, Pa. Twine. 250,628; Dec. 11; Serial No. 271,253; published Sept. 25, 1928. Class 7.

Hanson & Van Winkle Co., Newark, N. J., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Chemicals. 73,470; renewed Apr. 20, 1929.

Harris & Filler Co., The, Frederick, Md. Canned vegetables. 250,583; Dec. 11; Serial No. 271,385; published Oct. 2, 1928. Class 46.

Havener, Laura, doing busines as The Altruline Company, Chillicothe, Ohio. Antiseptic powder. 250,604; Dec. 11; Serial No. 271,118; published Sept. 25, 1928. Class 6.

Hays-Fischer Manufacturing Company, Fort Worth, Tex. Fan-pulley pins. 250,664; Dec. 11; Serial No. 257,411; published Sept. 25, 1928. Class 23.

Hazen Paper Co., Holyoke, Mass. Coated book papers, bond papers, etc. 250,490; Dec. 11; Serial No. 270,932; published Sept. 18, 1928. Class 37.

Health Products Corporation, Newark, N. J. Laxative chewing tablets. 250,691; Dec. 11; Serial No. 267,656; published Oct. 16, 1928. Class 6.

Helvetia Milk Condensing Company, Highland, Ill., assignor to Pet Milk Company, St. Louis, Mo. Evaporated milk. 72,101; renewed Jan. 5, 1929.

Hercules Powder Company, Wilmington, Del. Dynamite. 250,525; Dec. 11; Serial No. 264,304; published Sept. 25, 1928. Class 9.

Hibben, Hollweg & Company, to Hibben, Hollweg & Company, Indianapolis, Ind., Successor. Clothing. 72,279; renewed Jan. 12, 1929.

Hibben, Hollweg & Company, to Hibben, Hollweg & Company, Indianapolis, Ind., successor. Yarn. 72,768; renewed Feb. 16, 1929.

Hillyard Chemical Company, St. Joseph, Mo. Liquid cleaner for floors and woodwork. 250,718; Dec. 11. Class 4.

Hinchman, William H. D., doing business as W. H. D. Hinchman Construction Co., Detroit, Mich. Blocks and sheets formed of cork and cement. 250,502; Dec. 11; Serial No. 269,190; published Sept. 11, 1928. Class 12.

Hobbs, William W., doing business as The Sudanette Company, New Bedford, Mass. Sudan cotton cloth in the piece. 250,640; Dec. 11; Serial No. 267,709; published Sept. 25, 1928. Class 42.

Hollings-Smith Co., Orangeburg, N. Y. Medicine. 250,467; Dec. 11; Serial No. 270,483; published Sept. 25, 1928. Class 6.

Hope, Reginald J. H., doing business as Hope, Hartope & Co., London, England. Materials for cleaning. 250,395; Dec. 11; Serial No. 245,213; published Sept. 18,1928. Class 4.

Horrocks-Ibbotson Company. (See Clark-Horrocks Co.)

Hoy, John S., to Hoy & Co., Inc., Albany, N. Y., successor. Roofing tin. 68,384; renewed Apr. 7, 1928.

Hoy, John S., to Hoy & Co., Inc., Albany, N. Y., successor. Tin roofing. 68,477–8; renewed Apr. 14, 1928.

Hutchins, John B., Houston, Tex. Salve. 250,466; Dec. 11; Serial No. 270,492; published Oct. 2, 1928. Class 6.

Hy-Nap Chemical Company, New York, N. Y. Pharmaceutical preparation. 250,651; Dec. 11; Serial No. 268,546; published Sept. 25, 1928. Class 6.

Ideal Novelty & Toy Co., Brooklyn, N. Y. Dolls. 250,428; Dec. 11; Serial No. 269,787; published Sept. 18, 1928. Class 22.

Independent Growers Packing Company, San Jose, Calif. Dried prunes. 250,620; Dec. 11; Serial No. 271,304; published Oct. 2, 1928. Class 46.

India Tire and Rubber Company, Akron, Ohio. Pneumatic tires. 250,661; Dec. 11; Serial No. 258,125; published Sept. 25, 1928. Class 35.

International Fire Equipment Corporation, West New Brighton, N. Y. Portable hand fire-extinguishing apparatus. 250,444; Dec. 11; Serial No. 270,746; published Sept. 25, 1928. Class 23.

International Journal of Surgery Co., Inc., New York, N. Y. Periodical published monthly. 250,384; Dec. 11; Serial No. 270,336; published Sept. 18, 1928. Class 38.

International Metal Polish Co., Indianapolis, Ind. Metal polish. 72,754; renewed Feb. 16, 1929.

Ischerland, Frederick E., Flint, Mich. Tonic for dressing the hair. 250 626; Dec. 11; Serial No. 271,258; published Sept. 25, 1928. Class 6.

Jail Bird Paint Remover Co., Fort Wayne, Ind. Paint remover. 250,657; Dec. 11; Serial No. 268,376; published Sept. 25, 1928. Class 16.

James Manufacturing Company, Fort Atkinson, Wis. Steel supporting columns, metal window, etc. 250,539; Dec. 11; Serial No. 267,054; published Aug. 7, 1928. Class 12.

Japan Paper Company, New York, N. Y. Decorative tissue paper. 250 547; Dec. 11; Serial No. 266,429; published Sept. 18, 1928 Class 37.

Japanese Fan Company, New York, N. Y. Decorative novelties. 250,549; Dec. 11; Serial No. 266,250; published Oct. 2, 1928. Class 34.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Excavating, elevating, and conveying machinery. 250 411; Dec. 11; Serial No. 270,247; published Oct. 2, 1928. Class 23.

Jiffy Corporation. (See Lysons, J. Will, assignor.)

Johnson, Howard, doing business as Arlma Soap Paste Co., Bethlehem, Pa. Soap paste. 250 443; Dec. 11; Serial No. 270,747; published Sept. 18, 1928. Class 4.

Johnson, Scott W., Cincinnati, Ohio. Bleach crème, cold crème, face powder, etc. 250,697; Dec. 11. Class 6.

Kaufmann, Henry L., doing business as Henry L. Kaufmann & Co., Boston, Mass. Mattress-protecting appliance and parts thereof. 259,713; Dec. 11. Class 50.

Kelley Island Lime and Transport Company, The, Cleveland, Ohio. Ground lime. 250,637; Dec. 11; Serial No. 267,775; published Aug. 14, 1928. Class 12.

Kennedy Valve Mfg. Co., The, Elmira, N. Y. Back-water valves. 250,693; Dec. 11. Class 13.

Kenny, C. D., Co., Baltimore, Md. Coffee. 250,582; Dec. 11; Serial No. 271,441; published Oct. 2, 1928. Class 46.

Kings River Fruit Association, Minkler, Calif. Fresh deciduous fruits. 250 560; Dec. 11; Serial No. 262,716; published Sept. 25, 1928. Class 46.

Klaine, Frank A., to The F. A. Klaine Co., Cincinnati, Ohio, successor. Stoves. 71,869; renewed Dec. 15, 1928. Class 34.

Krout & Fite Manufacturing Company, Philadelphia, Pa. Tapes and bindings. 73,108–9; renewed Mar. 16, 1929.

Laboratoire De Pharmacologie, Inc. (See Vial.)

Lachin, Victor, doing business as Architectural Cast Stone Co., New Orleans, La. Artificial building stone. 250,646; Dec. 11; Serial No. 267,428; published Aug. 7, 1928. Class 12.

Lalance & Grosjean Mfg. Co., New York and Woodhaven, N. Y. Enameled and sheet-metal wares. 250,639; Dec. 11; Serial No. 267,712; published Sept. 25, 1928. Class 13.

Lanschey, H., Inc., New York, N. Y. Inking materials. 250,391; Dec. 11; Serial No. 247,330; published Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Dryers for inks. 250,392; Dec. 11; Serial No. 247,329; published Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Antiabsorption inking materials. 250,393; Dec. 11; Serial No. 247,327; published Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Antiabsorption inking materials. 250,394; Dec. 11; Serial No. 247,326; Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Inking materials for increasing pliability. 250,396; Dec. 11; Serial No. 247,325; published Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Inking materials for reviving and increasing pliability. 250,397; Dec. 11; Serial No. 247,323; published Sept. 25, 1928. Class 11.

Lanschey, H., Inc., New York, N. Y. Antisiccative inking materials. 250,398; Dec 11; Serial No. 247,322; published Sept. 25, 1928. Class 11.

Larche, Lucien E., Stamford, Tex. Shelving for stores. 250,603; Dec. 11; Serial No. 271,131; published Sept. 25, 1928. Class 32.

La Vallette Watch Co., Bienne, Switzerland. Watches and clocks and parts of them. 250,705; Dec. 11. Class 27.

Leggo, Arthur Victor, and Ernest Barton Hack, Melbourne, Victoria, Australia. Bituminous materials. 250,667; Dec. 11; Serial No. 256,527; published Aug. 7, 1928. Class 12.

Le-Mul Mfg. Co., St. Paul, Minn. Pop corn. 250,559; Dec. 11; Serial No. 262,719; published Oct. 2, 1928. Class 46.

Lesher, Whitman & Co., Inc., New York, N. Y. Uniform serge. 250,498; Dec. 11; Serial No. 269,357; published Sept. 25, 1928. Class 42.

Lewis, G. B., Company, Watertown, Wis. Structural toys. 250,410; Dec. 11; Serial No. 270,252; published Oct. 2, 1928. Class 22.

Liebs, L. A., Company, Inc., New York, N. Y. Paper wrappings for packages. 250,721; Dec. 11. Class 37.

Lilly Tree Surgeons, Inc., The, Rye, N. Y. Tree-cavity filler. 250,520; Dec. 11; Serial No. 264,727; published Aug. 21, 1928. Class 12.

Lilly Tree Surgeons, Inc., The, Rye, N. Y. Tree-cavity filler. 250,521; Dec. 11; Serial No. 264,726; published Aug. 28, 1928. Class 12.

Limestone Products Corporation of America, Newton, N. J. Fertilizers. 250,383; Dec. 11; Serial No. 270,342; published Sept. 25, 1928. Class 10.

Limestone Products Corporation of America, Newton, N. J. Fertilizers. 250,679; Dec. 11; Serial No. 270,037; published Sept. 25, 1928. Class 10.

Lineatime Manufacturing Company Incorporated, Rochester, N. Y. Copyholders for typewriters. 250,573; Dec. 11; Serial No. 260,393; published Sept. 18, 1928. Class 37.

Lionel Trading Co. Inc., New York, N. Y. Empty vanity cases. 250,533; Dec. 11; Serial No. 267,367; published Sept. 25, 1928. Class 2.

Littlejim Co. (See Rosenheim, James H.)

Livero Products Company. (See Cummings, H. E.)

Lubasch, A., & Sons, Inc., New York, N. Y. Underwear, undershirts, drawers. 250,665; Dec. 11; Serial No. 256,949; published Sept. 4, 1928. Class 39.

Luce Packing Company, Lucedale, Miss. Canned fruits and vegetables. 250,645; Dec. 11; Serial No. 267,431; published Oct. 2, 1928. Class 46.

Lummis & Company, Philadelphia, Pa. Salted peanuts. 250,482; Dec. 11; Serial No. 270,886; published Sept. 25, 1928. Class 46.

Lüscher & Bömper A.-G., Fahr, Germany. Plaster bandages. 250,633; Dec. 11; Serial No. 267,979; published Sept. 25, 1928. Class 44.

Lysons, J. Will, assignor to Jiffy Corporation, New York, N. Y. Shaving-brush device for applying shaving creams and similar preparations. 250,592; Dec. 11; Serial No. 270,132; published Oct. 2, 1928. Class 29.

Macy, R. H., & Co., Inc., New York, N. Y. Subtitle to newspaper articles which appear daily. 250,401; Dec. 11; Serial No. 231,389; published Sept. 18, 1928. Class 38.

Macy, R. H., & Co., Inc., New York, N. Y. Chinaware. 250,407; Dec. 11; Serial No. 270,299; published Sept. 25, 1928. Class 30.

Magic Swan Co., The. (See Southworth, Ralph W. E.)

Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods, silk and wool and silk and rayon mixed piece goods. 250,524; Dec. 11; Serial No. 264,434; published Sept. 25, 1928. Class 42.

Manning, William T., Waterbury, Conn. Stationary forms. 250,719; Dec 11, 1928. Class 37.

Master, Aaron, Brooklyn, N. Y. Board games. 250,686; Dec. 11; Serial No. 269,905; published Sept. 25, 1928. Class 22.

Master, Aaron, Brooklyn, N. Y. Board games. 250,687; Dec. 11; Serial No. 269,904; published Oct. 2, 1928. Class 22.

Master Metal Products, Inc., Buffalo, N. Y. Paper bags. 250,418; Dec. 11; Serial No. 270,194; published Sept. 25, 1928. Class 2.

McMillan, J. T., Co., St. Paul, Minn. Ham and bacon. 250,389; Dec. 11; Serial No. 264,629; published Oct. 2, 1928. Class 46.

McMullen, Ralph W., Detroit, Mich. Portable hand fire-extinguisher apparatus. 250,400; Dec. 11; Serial No. 233,211; published Nov. 15, 1927. Class 23.

Mentho Septo Co. (See Smith, Wallace B.)

Metro Chocolate Co. Inc., Brooklyn, N. Y. Chocolate-covered marshmallow bars. 250,712; Dec. 11. Class 46.

Meyer Furnace Company, The, Peoria, Ill. Furnaces. 250,455; Dec. 11; Serial No. 270,641; published Oct. 2, 1928. Class 34.

Mid-States Chemical Company, Inc., St. Louis, Mo. Liquid dry cleaner. 250,380; Dec. 11; Serial No. 270,384; published Sept. 18, 1928. Class 4.

Midway Chemical Co., Chicago, Ill. Dust mops and polish mops. 250,427; Dec. 11; Serial No. 269,795; published Sept. 25, 1928. Class 29.

Milford Canning Company, The, Milford, Ill. Canned corn. 250,591; Dec. 11; Serial No. 270,136; published Sept. 25, 1928. Class 46.

Miller, I., & Sons, Inc., Long Island City, N. Y. Compact powders and rouges, lip sticks, face lotion, etc. 250,663; Dec. 11; Serial No. 257,691; published Sept. 25, 1928. Class 6.

Mineral-Lac Paint Co., Inc., Philadelphia, Pa. Plastic roof coating. 250,658; Dec. 11; Serial No. 268,299; published Sept. 4, 1928. Class 12.

Minneapolis-Honeywell Regulator Company, Wabash, Ind., and Minneapolis, Minn. Device to limit the temperature of the air in the casing of a warm-air furnace. 250,607; Dec. 11; Serial No. 267,876; published Sept. 25, 1928. Class 34.

Minner & Co., Inc., St. Louis, Mo. Animal bait. 259,710; Dec. 11. Class 22.

Moler Products Limited, London, England. Manufactures from mineral substances. 250,526; Dec. 11; Serial No. 264,039; published Sept. 4, 1928. Class 12.

Morrill & Sturgeon Lumber Company, Portland, Oreg. Doors, lumber, and plywood, etc. 250,516; Dec. 11; Serial No. 265,282; published Aug. 7, 1928. Class 12.

Morris, Rose, doing business as Morris Company, Pittsfield, Mass. Hem gauge for measuring the hem of garments. 250,436; Dec. 11; Serial 269,621; published Oct. 2, 1928. Class 26.

Mueller Co., Decatur, Ill. Faucets. 250,569; Dec. 11; Serial No. 261,274; published Oct. 2, 1928. Class 13.

Mueller, H., Manufacturing Company, by change of name to Mueller Co., Decatur, Ill. Handles for self-closing bibs and faucets. 72,222; renewed Jan. 12, 1929.

Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Soaps. 250,565; Dec. 11; Serial No. 261,800; published Sept. 18, 1928. Class 4.

Muralo Company, The, New York and Brighton, assignor to The Muralo Company, Inc., New Brighton, N. Y. Cold water paint. 72,377–8; renewed Jan. 19, 1929. Class 16.

Muralo Company, The, New York and Brighton, N. Y., assignor to Pittsbugh Plate Glass Company, Pittsburgh, Pa. Calcimine. 73,126; renewed Mar. 16, 1929.

National Ammonia Company, Inc., Philadelphia, Pa. Ammonia. 250,515; Dec. 11; Serial No. 265,283; published Sept. 25, 1928. Class 6.

National Carbon Company, Inc., New York, N. Y. Liquid compound for the prevention of freezing and boiling of water in radiators. 250,542; Dec. 11; Serial No. 266,824; published Sept. 25, 1928. Class 6.

National Fireworks Distributing Co. of Arizona, The, Boston, Mass. Fireworks. 250,576; Dec. 11; Serial No. 259,251; published Sept. 25, 1928. Class 9.

National Grocer Company, Chicago, Ill., to National Grocer Company, Detroit, Mich. Foods. 73,372; renewed Apr. 13, 1929.

National Used Car Market Report, Inc., Chicago, Ill. Periodical publications issued approximately quarterly. 250,419; Dec. 11; Serial No. 270,437; published Sept. 18, 1928. Class 38.

Nazareth Waist Co., Nazareth, Pa., and New York, N. Y., to Nazareth Waist Company, Nazareth, Pa. Union suits, undershirts, and underdrawers. 71,532; renewed Dec. 1, 1928.

New York Condensed Milk Company, assignor to The Borden Company, New York, N. Y. Condensed coffee. 32,639; renewed Mar. 28, 1929.

New York Zoological Society, New York, N. Y. Periodical publication. 250,451; Dec. 11; Serial No. 270,713; published Sept. 18, 1928. Class 38.

Nojiri, Nobuzo, doing business as Nojiri Fruit Company, Sacramento, Calif. Fresh vegetables and fruits. 250,450; Dec. 11; Serial No. 270,714; published Oct. 2, 1928. Class 46.

North American Mercantile Company, San Francisco, Calif. Canned beef. 250,432; Dec. 11; Serial No. 269,741; published Oct. 2, 1928. Class 46.

North Western Expanded Metal Company, Chicago, Ill. Metal lath. 250,531; Dec. 11; Serial No. 263,663; published Aug. 7, 1928. Class 12.



Northwestern Milling Company. (See Gopher State Milling Company.)

Nuccio, Ignazio, doing business as Traiana Olive Oil Company, Cleveland, Ohio. Olive oil. 250,423; Dec. 11; Serial No. 269,851; published Sept. 18, 1928. Class 46.

Nugent, B., & Brother Dry Goods Company, St. Louis, Mo. Publication. 250,568; Dec. 11; Serial No. 261,377; published Sept. 18, 1928. Class 38.

Oberhaeusser & Landauer, to Hermann Oberhaeusser, doing business as Oberhaeusser & Landauer, Wurzburg, Germany, successor. Medicinal confections, beverages, and preparations. 31,856; renewed Aug. 9, 1928.

Old Bleach Linen Company, Limited, The, Randalstown, assignor, by mesne assignments, to Old Bleach Linen Company, Ltd., New York, N. Y. Linen piece goods. 72,621; renewed Feb. 9, 1929.

Old Dutch Mills, Inc., New York, N. Y. Coffee, tea, and cocoa. 250,558; Dec. 11; Serial No. 262,764; published Oct. 2, 1928. Class 46.

Onondaga Silk Co., Inc., Syracuse and New York, N. Y. Silk fabrics in the piece. 250,682; Dec. 11; Serial No. 269,979; published Sept. 25, 1928. Class 42.

Oshkosh Trunk Company, The, Oshkosh, Wis. Golf bags. 250,566; Dec. 11; Serial No. 261,585; published Sept. 25, 1928. Class 22.

Otti, Joseph, doing business as Otti Manufacturing Company, Oklahoma City, Okla. Tools for removing rims from automobile tires. 250,706; Dec. 11. Class 23.

Overhead Door Corporation, Hartford City, Ind. Garage doors. 250,386; Dec. 11; Serial No. 219,134; published Aug. 21, 1928. Class 12.

Oxford Candy Corporation, Cambridge, Mass. Candy. 250,514; Dec. 11; Serial No. 265,398; published Sept. 25, 1928. Class 46.

Oxweld Acetylene Company, New York, N. Y. Oxygen-dispensing equipment for vaults, safes, and the like. 250,473; Dec. 11; Serial No. 270,800; published Sept. 25, 1928. Class 44.

Pabst Corporation, Milwaukee, Wis. Malt syrup. 250,494; Dec. 11; Serial No. 269,480; published Sept. 18, 1928. Class 46.

Pacific Trading Co., Inc., San Francisco, Calif. Canned vegetables. 250,431; Dec. 11; Serial No. 269,742; published Oct. 2, 1928. Class 46.

Padberg, Albert, Elberfeld, Germany. Ink ribbons and carbon papers. 250,472; Dec. 11; Serial No. 270,779; published Oct. 2, 1928. Class 11.

Palmer, A. N., Company, The, New York, N. Y. Periodical. 250,448–9; Dec. 11; Serial Nos. 270,715–16; published Sept. 18, 1928. Class 38.

Palmolive-Peet Company, The, now by change of name Colgate-Palmolive-Peet Company, Chicago, Ill. Soap. 250,434–5; Dec. 11; Serial Nos. 209,086–7; published Sept. 18, 1928. Class 4.

Paretex Company, Inc., The, New York, N. Y. Wall-finishing material. 250,522; Dec. 11; Serial No. 264,695; published Sept. 11, 1928. Class 12.

Parker-Regan Corporation, San Francisco, Calif. Chemically-impregnated polishing dust cloths. 250,505; Dec. 11; Serial No. 269,142; published Sept. 18, 1928. Class 4.

Paroubek, Blahouraf A., Plainfield, N. J. Finger bandages. 250,422; Dec. 11; Serial No. 269,854; published Sept. 25, 1928. Class 44.

Peerless Roll Leaf Co., Inc., New York, N. Y. Imitation metal leaf and pigment mounted on a roll of paper. 250,726; Dec. 11. Class 11.

Penick & Ford, Ltd., New York, N. Y. Molasses. 250,465; Dec. 11; Serial No. 270,500; published Sept. 18, 1928. Class 46.

Pet Milk Company. (See Helvetia Milk Condensing Company, assignor.)

Pittsburgh Plate Glass Company. (See Muralo Company, The, assignor.)

Pittsburgh Provision and Packing Company, Pittsburgh, Pa. Boneless boiled ham, sugar-cured calas, etc. 250,388; Dec. 11; Serial No. 210,316; published Oct. 2, 1928. Class 46.

Pittsburgh Steel Company, Pittsburgh, Pa. Metal tubes, wire nails, wire staples, etc. 250,716; Dec. 11. Class 13.

Plymouth Rock Candy Company, Boston, Mass. Chocolate, chocolate nut, and hard candies. 250,555; Dec. 11; Serial No. 263,099; published Sept. 25, 1928. Class 46.

Polefsky, Jacob S., doing business as Continental Pure Product Company, New York, N. Y. Beverage and a concentrate for making the same. 250,536; Dec. 11; Serial No. 267,210; published Oct. 2, 1928. Class 45.

Poison, Neil C., Kingston, Canada, and Hartford, Conn., to N. C. Poison, doing business as C. C. Poison & Company, Limited, Montreal, Canada, and Rouses Point, N. Y. Remedy. 72,726; renewed Feb. 16, 1929.

Popular Dogs Publishing Company, Inc., Philadelphia, Pa. Magazines and other periodical publications. 250,570; Dec. 11; Serial No. 261,207; published Aug. 21, 1928. Class 38.

Power Plant Economy Co., St. Louis, Mo. Baffle mix. 250,644; Dec. 11; Serial No. 267,454; published Aug. 7, 1928. Class 12.

Premier Beverage Company, Chicago, Ill. Ginger ale. 250,457; Dec. 11; Serial No. 270,604; published Oct. 2, 1928. Class 45.

Publicker Commercial Alcohol Co. of Delaware, Philadelphia, Pa. Pure ethyl alcohol. 250,586; Dec. 11; Serial No. 268,037; published Sept. 25, 1928. Class 49.

Purity Candy Company, Beaumont, Tex. Salted nuts. 250,618; Dec. 11; Serial No. 271,196; published Sept. 25, 1928. Class 46.

Railway Motors Corporation, De Pere, Wis. Roller bearings and parts thereof. 250,458; Dec. 11; Serial No. 270,558; published Oct. 2, 1928. Class 23.

Ranchers' Manufacturing Company, Pomona, Calif. Pumps and pump parts. 250,685; Dec. 11; Serial No. 269,915; published Sept. 25, 1928. Class 23.

Rapp Company, Inc., Atlanta, Ga. Metal pipe joints. 250,572; Dec. 11; Serial No. 260,849; published Sept. 25, 1928. Class 13.

Red Star News Company, The, New York, N. Y. Weekly magazine. 250,641; Dec. 11; Serial No. 267,668; published Sept. 18, 1928. Class 38.

Ree, B. C., Co. (See Bissiri, Adriano.)

Research Products Company, Los Angeles, Calif. Medical preparation. 250,600; Dec. 11; Serial No. 270,051; published Oct. 2, 1928. Class 6.

Rey Safety Razor Corporation, New York, N. Y. Razor blades. 250,602; Dec. 11; Serial No. 271,147; published Oct. 2, 1928. Class 23.

Rhenania-Kunheim Verein Chemischer Fabriken A.-G., Berlin, Germany. Chemicals. 250,654; Dec. 11; Serial No. 268,464; published Oct. 2, 1928. Class 6.

Rietmann, John A., assignor to Gra-Car Ltd., Chicago, Ill. Toilet articles. 250,577; Dec. 11; Serial No. 258,786; published Sept. 25, 1928. Class 6.

Roberts, Milan B., Flint, Mich. Artificial bait. 250,464; Dec. 11; Serial No. 270,508; published Sept. 18, 1928. Class 22.

Roesch, Alfred, Rahway, N. J. Rakes, hoes, shovels, etc. 250,512; Dec. 11; Serial No. 269,037; published Sept. 25, 1928. Class 23.

Rosenheim, James H., doing business as Littlejim Co., Bluefield, W. Va. Cleaning preparation. 250,589; Dec. 11; Serial No. 268,817; published Sept. 18, 1928. Class 4.

Roth Bros., Wheeling, W. Va. Canned vegetables and fruits. 250,474; Dec. 11; Serial No. 270,802; published Sept. 25, 1928. Class 46.

Roth, Goldman Co., Inc., New York, N. Y. Piece goods. 250,387; Dec. 11; Serial No. 271,087; published Sept. 25, 1928. Class 42.

Royal Packing Co., Los Angeles, Calif. Peeled green chilli and vegetable sauces. 71,536; renewed Dec. 1, 1928.

Safepack Mills, Millis, Mass. Roofing and building paper. 250,552; Dec. 11; Serial No. 263,427; published Aug. 21, 1928. Class 12.

Safeway Stores, Inc., Los Angeles, Calif. Ginger ale. 250,585; Dec. 11; Serial No. 271,362; published Oct. 2, 1928. Class 45.

Saint-Didier Automobiles, Paris, France. Automobiles and motor trucks, bicycles, etc. 250,638; Dec. 11; Serial No. 267,724; published Sept. 25, 1928. Class 19.

Sanford Narrow Fabric Co., Pawtucket, R. I., and New York, N. Y., assignor to Sanford Narrow Fabric Co., Inc., Pawtucket, R. I. Braids, tapes, bindings, and trimmings. 70,632; renewed Sept. 15, 1928.

Schafer, George, Cigar Company, Baltimore, Md. Cigars. 250,483; Dec. 11; Serial No. 270,882; published Sept. 25, 1928. Class 17.

Schoening, Michael E., assignor, by mesne assignments, to Carl Fischer, Inc., New York, N. Y. Strings for musical instruments. 69,918; renewed July 14, 1928.

Schoening, Michael E., assignor, by mesne assignments, to Carl Fischer, Inc., New York, N. Y. Strings for musical instruments. 71,561; renewed Dec. 1, 1928.

Scholl Mfg. Co. Inc., The, Chicago, Ill. Arch supports. 250,523; Dec. 11; Serial No. 264,536; published Sept. 25, 1928. Class 44.

Schrafft, W. F., & Sons Corporation, Boston, Mass. Confectionery. 250,567; Dec. 11; Serial No. 261,526; published Apr. 24, 1928. Class 46.

Schroeder, Fred, Fort Worth, Tex. Beverages and syrups for making the same. 250,724; Dec. 11. Class 45.

Schumann, William, West New York, N. J. Package nuts. 250,463; Dec. 11; Serial No. 270,511; published Oct. 2, 1928. Class 46.

Seaton, Hunley E., doing business as Seaton Products Company, Los Angeles, Calif. Memorandum pads, etc. 250,504; Dec. 11; Serial No. 269,155; published Sept. 18, 1928. Class 37.

Seiberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 250,460; Dec. 11; Serial No. 270,517; published Sept. 25, 1928. Class 44.

Seiberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 250,461–2; Dec. 11; Serial Nos. 270,513–14; published Sept. 25, 1928. Class 44.

Seiberling Latex Products Company, Akron and Barberton, Ohio. Druggists' rubber sundries. 250,470–1; Dec. 11; Serial Nos. 270,443–4; published Sept. 25, 1928. Class 44.

Seneca Oil Works, Warren, Pa. Gasoline, kerosene, etc. 250,692; Dec. 11; Serial No. 253,552; published Sept. 25, 1928. Class 15.

Senola Drug Co., Chicago, Ill. Ointments. 250,382; Dec. 11; Serial No. 270,354; published Oct. 2, 1928. Class 6.

Seville Studios, Incorporated, Cleveland, Ohio. Metal novelties. 250,454; Dec. 11; Serial No. 270,652; published Sept. 25, 1928. Class 32.
Sgobel & Day, Inc., New York, N. Y. Fresh apples, grapes, plums, etc. 250,453; Dec. 11; Serial No. 270,653; published Sept. 25, 1928. Class 46.
Sharp & Dohme, Incorporated, Baltimore, Md. Salt used as a dietary substitute for table salt. 250,447; Dec. 11; Serial No. 270,727; published Sept. 25, 1928. Class 6.
Siegelman Laboratories, Inc., Los Angeles, Calif. Cosmetic preparation. 250,430; Dec. 11; Serial No. 269,747; published Oct. 2, 1928. Class 6.
Siegelman Laboratories, Inc., Los Angeles, Calif. Cosmetic preparation, face powder, etc. 250,723; Dec. 11. Class 6.
Silica Products Co. (See Collings, William A., assignor.)
Silverware Wholesalers Association, Inc., New York, N. Y. Knives, forks, and spoons, trays, baskets, etc. 250,709; Dec. 11. Class 28.
Silz Packing Company, Inc., New York, N. Y. Pickled pig's foot tasties, sliced beef, Vienna sausage, etc. 250,530; Dec. 11; Serial No. 263,833; published Sept. 25, 1928. Class 46.
Smiley, William A., Mount Vernon, Wash. Ointment or liniment used in treating boils, etc. 250,557; Dec. 11; Serial No. 262,940; published Sept. 25, 1928. Class 6.
Smith, Wallace B., doing business as Mentho Septo Co., Fort Worth, Tex. Douche powder. 250,421; Dec. 11; Serial No. 269,864; published Oct. 2, 1928. Class 6.
Smith-Young Company. (See Young, Randal.)
Snail-A-Tor Laboratory. (See Taylor, Laura V.)
Societa Anonima Distillerie G. Ramazzotti Fu Ausano, Milan, Italy. General tonic. 250,653; Dec. 11; Serial No. 268,469; published Sept. 25, 1928. Class 6.
Southern Manufacturing Company, Athens, Ga. Cotton cloth piece goods. 250,608; Dec. 11; Serial No. 268,708; published Sept. 25, 1928. Class 42.
Southworth, Ralph W. E., doing business as The Magic Swan Co., Tuckahoe, N. Y. Liquid dry cleaner. 250,495; Dec. 11; Serial No. 269,434; published Sept. 18, 1928. Class 4.
Spear, Gilbert I., Westbrook, Me. Automobile cleaner and automobile polishing solution. 250,636; Dec. 11; Serial No. 267,870; published Oct. 2, 1928. Class 16.
Stamford Foundry Company, The, Stamford, Conn. Pot, pan, and kettle holders. 250,493; Dec. 11; Serial No. 269,490; published Oct. 2, 1928. Class 34.
Stanco Incorporated, Wilmington, Del., and New York, N. Y. White oil for chemical, etc., purposes. 250,426; Dec. 11; Serial No. 269,803; published Oct. 2, 1928. Class 6.
Standard Growers Exchange, Orlando, Fla. Fresh citrus fruits. 250,656; Dec. 11; Serial No. 268,402; published Sept. 25, 1928. Class 46.
Standard Oil Company of New Jersey, Wilmington, Del. Hydrocarbon solvents. 250,562; Dec. 11; Serial No. 262,422; published Oct. 2, 1928. Class 16.
Standard Textile Products Company, The, New York, N. Y. Oilcloth and oilcloth table covers. 250,605; Dec. 11; Serial No. 271,089; published Sept. 25, 1928. Class 20.
Steel Drum Accessories Corporation, Buffalo, N. Y. Cast-iron or steel valves. 250,698–700; Dec. 11. Class 13.
Stein, I. A., Galveston, Tex. Beverages and syrups and compounds for making the same. 250,491; Dec. 11; Serial No. 270,981; published Sept. 25, 1928. Class 45.
Stein, S., & Co., New York, N. Y. Woolen goods. 250,702; Dec. 11. Class 42.
Stines, Adolphus H., West Asheville, N. C. Soap. 250,456; Dec. 11; Serial No. 270,615; published Sept. 18, 1928. Class 4.
Storm, George, Enid, Okla. Series of pictures. 250,704; Dec. 11. Class 38.
Strange, Howell M., Woodlawn, to Howell M. Strange, Birmingham, Ala. Remedy. 73,345; renewed Apr. 13, 1929.
Strohmeyer & Arpe Co., New York, N. Y. Certain foods. 73,285; renewed Apr. 6, 1929.
Strohmeyer & Arpe Co., New York, N. Y. Foods. 73,385; renewed Apr. 13, 1929.
Structural Gypsum Corporation, Linden, N. J. Materials for use in partition blocks or tile. 250,534; Dec. 11; Serial No. 267,325; published Sept. 4, 1928. Class 12.
Sudanette Company, The. (See Hobbs, William W.)
Superior Felt & Bedding Co., Chicago, Ill. Mattresses. 250,601; Dec 11; Serial No. 271,151; published Oct. 2, 1928. Class 32.
Tangard, Einar, doing business as Hans Tangard & Son, Chelsea, Mass. Metallic cave hangers. 250,599; Dec. 11; Serial No. 270,060; published Sept. 25, 1928. Class 13.
Taylor, Laura V., doing business as Snail-A-Tor Laboratory, Los Angeles, Calif. Poison. 250,379; Dec. 11; Serial No. 270,400; published Sept. 25, 1928. Class 6.
Thine Products, Inc., New York, N. Y. Astringents, astringent cerates, hand creams, etc. 250,642; Dec. 11; Serial No. 267,616; published Sept. 25, 1928. Class 6.
Thompson Manufacturing Company, Los Angeles, Calif. Lawn, orchard, garden, nursery, and golf-course sprinklers. 250,720; Dec. 11. Class 13.
Tootle-Campbell Dry Goods Company, St. Joseph, Mo. Cotton piece goods. 250,475; Dec. 11; Serial No. 270,810; published Oct. 2, 1928. Class 42.
Traiana Olive Oil Company. (See Nuccio, Ignazio.)
Trusas, William D., Redding, Calif. Confection. 250,625; Dec. 11; Serial No. 271,325; published Oct. 2, 1928. Class 46.
Try-Me Bottling Company of Washington, D. C., Washington, D. C. Ginger ale. 250,688; Dec. 11; Serial No. 269,872; published Sept. 25, 1928. Class 45.
Tubbs, Chapin F., Calistoga, Calif. Fresh grapes. 250,681; Dec. 11; Serial No. 269,999; published Sept. 25, 1928. Class 46.
Turnbull, Samuel P., doing business as Wekiwa Chemical Co., Moultrie, Ga. Insecticide. 250,551; Dec. 11; Serial No. 266,062; published Sept. 25, 1928. Class 6.
Twentieth Century Rayon Textiles, Inc., New York, N. Y. Knitted fabrics. 250,484; Dec. 11; Serial No. 270,897; published Sept. 25, 1928. Class 42.
Union Wire Rope Corporation, Tulsa, Okla. Wire rope, wire cables, and high-carbon wire. 250,406; Dec. 11; Serial No. 270,307; published Sept. 25, 1928. Class 7.
United States Hoffman Company, Syracuse, assignor to United States Hoffman Machinery Corporation, New York, N. Y. Steam clothes-pressing machines. 72,889; renewed Mar. 2, 1929.
United States Knitting Co. Inc., Central Falls, R. I. Wool piece goods. 250,459; Dec. 11; Serial No. 270,525; published Oct. 2, 1928. Class 42.
U. S. Ring Traveler Company, Providence, R. I. Ring travelers. 250,571; Dec. 11; Serial No. 261,154; published Sept. 25, 1928. Class 23.
Utica Hydraulic Cement Company, Utica, Ill. Building cement. 250,725; Dec. 11. Class 12.
Valley Fruit Canning Co. (See Bodle, R. D., Co.)
Varick Electric Manufacturing Co., Inc., New York, N. Y. Electrically-heated pads for therapeutic uses. 250,416; Dec. 11; Serial No. 270,155; published Sept. 18, 1928. Class 44.
Vial, Paris, France, to Laboratoire De Pharmacologie, Inc., New York, N. Y., successor. Medicine. 72,010; renewed Feb. 9, 1929.
Victor Parting Bead Co., Inc., The, Reading, Pa. Weather strips, screen doors, etc. 250,550; Dec. 11; Serial No. 265,864; published Sept. 18, 1928. Class 12.
Vulcan Crucible Steel Co., Aliquippa, Pa. Tool steel. 250,715; Dec. 11. Class 14.
Vulcan Match Co., Inc., New York, N. Y. Matches. 250,581; Dec. 11; Serial No. 271,460; published Sept. 25, 1928. Class 9.
Wanamaker, John, New York, New York, N. Y. Newspaper column. 250,674; Dec. 11; Serial No. 251,251; published Sept. 18, 1928. Class 38.
Washburn Company, The, Worcester, Mass. Strainers. 250,596; Dec. 11; Serial No. 270,102; published Sept. 25, 1928. Class 13.
Washington Canners Co-Operative, Vancouver, Wash. Canned fruits. 250,492; Dec. 11; Serial No. 270,983; published Sept. 25, 1928. Class 46.
Weir, James, Inc., Brooklyn, N. Y. Cut flowers. 250,696; Dec. 11. Class 1.
Weiss, Willhelm Company, Inc., New York, N. Y., and Passaic, N. J. Piece goods. 250,609–15; Dec. 11; Serial Nos. 268,659–65; published Sept. 25, 1928. Class 42.
Weiss, Willhelm Company, Inc., New York, N. Y., and Passaic, N. J. Piece goods. 250,684; Dec. 11; Serial No. 269,925; published Sept. 25, 1928. Class 42.
Wekiwa Chemical Co. (See Turnbull, Samuel P.)
Wells, S. C., & Company, Le Roy, N. Y. Herb tea. 250,561; Dec. 11; Serial No. 262,637; published Oct. 2, 1928. Class 6.
West Bend Aluminum Company, West Bend, Wis. Aluminum pots, pans, kettles, etc. 250,672; Dec. 11; Serial No. 253,169; published Oct. 2, 1928. Class 13.
Western Door Manufacturers Association, Tacoma, Wash. Wooden doors. 250,532; Dec. 11; Serial No. 263,449; published Aug. 7, 1928.
Wettersol Dyestuff Corporation, New York, N. Y. Dyestuffs and intermediates. 250,632; Dec. 11; Serial No. 268,014; published Sept. 25, 1928. Class 6.
Wetterwald & Pfister Company, Inc., New York, N. Y. Dyestuffs and intermediates. 250,438; Dec. 11; Serial No. 269,560; published Sept. 25, 1928. Class 6.
Weyerhaeuser Forest Products, St. Paul, Minn. Lumber, timbers, beams, shingles, etc. 250,548; Dec. 11; Serial No. 266,409; published Aug. 14, 1928. Class 12.
Weyerhaeuser Forest Products, St. Paul, Minn. Wooden shingles and shakes. 250,590; Dec. 11; Serial No. 268,759; published Sept. 11, 1928. Class 12.
Wilbert Products Co., Inc., The, New York, N. Y. Dry-cleaning fluid. 250,587; Dec. 11; Serial No. 268,898; published Sept. 18, 1928. Class 4.
Wilhelm, A., Company, The, Reading Pa. Painters' materials. 71,365–6; renewed Nov. 24, 1928.
Wilhelm, A., Company, The, Reading, Pa. Paints, stains, and colors. 71,571; renewed Dec. 1, 1928.
Wolverine Tube Company, Detroit, Mich. Metal tubing. 250,433; Dec. 11; Serial No. 269,705; published Sept. 25, 1928. Class 13.
Worumbo Manufacturing Company, Bath, Me. Woolen goods. 250,660; Dec. 11; Serial No. 258,610; published Sept. 25, 1928. Class 42.
Young Radiator Co., Racine, Wis. Unit air heaters, radiators, etc. 250,695; Dec. 11. Class 34.
Young, Randal, doing business as Smith-Young Company, Cincinnati, Ohio. Paint and varnish brushes. 250,437; Dec. 11; Serial No. 269,563; published Oct. 2, 1928. Class 29.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Arcturus Radio Company, Newark, N. J. Arcturus A-C Power Amplifier Type 071b. For Radiotubes. 35,051; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Amplifier Type 126. For Radiotubes. 35,052; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Amplifier Type 126h. For Radiotubes. 35,053; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Detector Type 127. For Radiotubes. 35,054; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Amplifier Type 48. For Radiotubes. 35,055; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Power Amplifier Type 40. For Radiotubes. 35,056; Dec. 11.
Arcturus Radio Company, Newark, N. J. Arcturus A-C Full Wave Rectifier Type 180. For Radiotubes. 35,057; Dec. 11.
Arwell Products Company, Waukegan, Ill. Arwell Kloro-gas. For Household Deodorant and Insecticide. 35,058; Dec. 11.
Bettina's. (See Beye, Elizabeth.)
Beye, Elizabeth, doing business as Bettina's, New York, N. Y. Bettina's. For Confectionery. 35,059; Dec. 11.
Bryant, Lane, Inc., doing business as Lane Bryant, New York, N. Y. Lady Lane Arch-Supporting Shoes. For Shoes. 35,060; Dec. 11.
Cohn, Simon, doing business as Confecto Products Co., Coral Gables, Miami, Fla. Cachew Nut. For Cashew Nuts. 35,061; Dec. 11.
Confecto Products Co. (See Cohn, Simon.)
Dittrich, August C., Chicago, Ill. Ginger-Bubbles. For Ginger Ale. 35,062; Dec. 11.
Earl Fruit Company, Wenatchee, Wash. Blue Flag. For Fresh Deciduous Fruits. 35,063; Dec. 11.
Fleming, C. W., and Co., Cleveland, Ohio. Nu-A-Gain. For Liquid Polish for Varnished and Lacquered Surfaces. 35,064; Dec. 11.
Independent Milwaukee Brewery, Milwaukee, Wis. Deutscher Club Pale Dry Ginger Ale. For Ginger Ale. 35,065–6; Dec. 11.
Jewel Tea Co., Inc., Central Valley, N. Y., and Chicago, Ill. Jewel Mountain Blend Coffee. For Coffee. 35,067; Dec. 11.
Johnson Educator Food Co., Cambridge, Mass. Cape Cod Cookies. For Cookies. 35,068; Dec. 11.
Johnson Educator Food Co., Cambridge, Mass. Cape Cod Cookie. For Cookies. 35,069; Dec. 11.
Julian & Kokenge Company, The, Cincinnati, Ohio. Foot Saver Shoes. For Footwear. 35,070; Dec. 11.
Lake Charles Rice Milling Company of Louisiana, Inc., Lake Charles, La. Pack-O-Bulk. For Rice. 35,071; Dec. 11.
Lantz Bros. Baking Co., St. Louis, Mo. Grandma's Oatmeal Cookies. For Oatmeal Cookies. 35,072; Dec. 11.
Lantz Bros. Baking Co., St. Louis, Mo. Grandma's Honey Cocoanut Macaroons. For Macaroons. 35,073; Dec. 11.
Littlebear, Al., Dayton, Ohio. Al. Littlebear's 'Wigwam' Indian Herb Tonic. For a Combination of Herbs as a Medicine. 35,074; Dec. 11.
Littlebear, Al., Dayton, Ohio. Al. Littlebear's 'Wigwam' Indian Oil. For Combination of Oils, Gums, and Herbs. 35,075; Dec. 11.
Magnetik Novelty Corp., New York, N. Y. Honors. For Bridge Scorer. 35,076; Dec. 11.
Miller, Albert, & Company, Chicago, Ill. The Reputation Behind this Tag is the Grocer's Real Safeguard. For Potatoes. 35,077; Dec. 11.
Miller, Albert, & Company, Chicago, Ill. This Tag Identifies Bill Spud Brand Seed. For Potatoes. 35,078; Dec. 11.
Miller, Albert, & Company, Chicago, Ill. To The Retailer. For Potatoes. 35,079; Dec. 11.
Mootz, Peter, Spokane, Wash. All Nations. For Baseball Uniforms. 35,080; Dec. 11.
Mountain States Honey Producers Association, Boise, Idaho. Golden Bear Comb Honey. For Honey. 35,081; Dec. 11.
Mountain States Honey Producers Association, Boise, Idaho. Golden Bear Honey. For Honey. 35,082; Dec. 11.
Mystic Pharmacal Co., Baltimore, Md. Mystic Rub. For Liniment. 35,083; Dec. 11.
Papendick Bakery Co., St. Louis, Mo. Han-Dee Bread. For Bread. 35,084; Dec. 11.
Pilzner Importing Co., New York, N. Y. Pico Brand Barley Malt Syrup. For Barley-Malt Syrup. 35,085; Dec. 11.
Point Adams Packing Co., Hammond, Oreg. Blue-Bill. For Canned Salmon. 35,086; Dec. 11.
Regal Confections Company, Los Angeles, Calif. It. For Confection Bar. 35,087; Dec. 11.
Reichardt Cocoa & Chocolate Co., Inc., doing business as Reichardt, New Brunswick, N. J. For You. For Candy. 35,088; Dec. 11.
Reiter, Bennie, doing business as Reiter Oil Co., Not Inc., Chicago, Ill. Reiter Oil, For Cooking, For Salads, For Frying. For Salad Oil. 35,089; Dec. 11.
Selchow and Righter Co., New York and Brooklyn, N. Y. Have You It? For a Card Game. 35,090; Dec. 11.

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Columbia Clay Company, Columbia, S. C. Columbia Clay Co. For Sewer Pipe, Wall Coping, Flue Lining, Flue Pipe, Chimney Tops, Fire Brick, Fire Clay, Hollow Building Tile, and Draintile. 11,371; Dec. 11.
Daggett Chocolate Co., The, Cambridge, Mass. Daggett's Chocolates 'Always.' For Chocolates. 11,372; Dec. 11.
Forhan Company, New York, N. Y. Why Forhan's. For Tooth Paste. 11,373; Dec. 11.
Forhan Company, New York, N. Y. Forhan's Antiseptic Refreshant. For Mouth Wash. 11,374; Dec. 11.
Forhan Company, New York, N. Y. Don't be a Trillium. For Mouth Wash. 11,375; Dec. 11.
Heinz, H. J., Company, Pittsburgh, Pa. We Use Rich Cream, Too. For Cream of Tomato Soup. 11,376; Dec. 11.
International Postal Supply Co., The, Brooklyn, N. Y. The New International Metered Mailing Machine. For Machines Used in Sealing, Postmarking, and Countering or Metering Mail and Parts Therefor. 11,377; Dec. 11.
Northern Hemplock Mfrs. of Michigan and Wisconsin, The, Oshkosh, Wis. Northern Hemlock. For Hemlock Lumber. 11,378; Dec. 11.
Southern Dairies, Inc., Washington, D. C. Cream of the South. For Ice Cream. 11,379; Dec. 11.
Welch Grape Juice Company, The, Westfield, N. Y. Welch Concord Harvest Bulletin Number Two. For Grape Juice. 11,380; Dec. 11.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

A. D. C. Aircraft Limited, Regent House, Kingsway, London, England. Aircraft engines. 272,786; Dec. 11. Class 23.
Acme White Lead & Color Works, Detroit, Mich. Varnishes. 274,812; Dec. 11. Class 16.
Acosta & Penzler, St. Louis, Mo. Articles of jewelry. 273,039; Dec. 11. Class 28.
Admirable Clothes, Inc., New York, N. Y. Suits, overcoats, and topcoats. 256,600; Dec. 11. Class 39.
Agnew, John A., Philadelphia, Pa. Display and advertising signs of all kinds. 271,842; Dec. 11. Class 50.
Alberta Mills, Inc., Philadelphia, Pa. Bathing suits, sunbath suits, and slip-ons for bathing and sun-bath suits. 273,622; Dec. 11. Class 39.
Alrowa Deutsche Strickerei Aktiengesellschaft, Chemnitz, Germany. Hosiery, sweaters, scarfs, etc. 269,883; Dec. 11. Class 39.
American Earphone Co., Inc., New York, N. Y. Conversation tubes and hearing devices. 274,001; Dec. 11. Class 44.
American Loose Leaf Corporation, New York, N. Y. Loose-leaf binders. 272,846; Dec. 11. Class 37.
American Radiator Company, East Orange, N. J., and New York, N. Y. House heating boilers. 273,095; Dec. 11. Class 34.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Metal fence posts. 269,071; Dec. 11. Class 13.
Ames Harris Neville Co., San Francisco, Calif. Swinging couch hammocks, davenports, mattresses, etc. 273,570; Dec. 11. Class 32.
Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. 272,922; Dec. 11. Class 46.
Armstrong Electric and Manufacturing Corporation, The, Huntington, W. Va. Combined electric percolator and toaster. 273,350; Dec. 11. Class 21.
Asmus Brothers, Detroit, Mich. Birdseed. 274,186; Dec. 11. Class 46.
Associated Apparel Industries, Inc. (See Gossard, H. W., Co., The.)
Baker-Cleveland, B. R., Company, The, Cleveland, Ohio. Suits, overcoats, shirts, cravats, etc. 255,834; Dec. 11. Class 39.
Barber, A. H., & Company, Chicago, Ill. Cheese. 274,306; Dec. 11. Class 46.
Barber-Hall Printing Company, High Point, N. C. Magazine. 263,633; Dec. 11. Class 38.
Barber, W. H., Company, Minneapolis, Minn. Lubricating oils and greases. 272,972; Dec. 11. Class 15.
Beech-Nut Packing Company, Canajoharie, N. Y. Candy-coated chewing gum. 274,093; Dec. 11. Class 46.
Beir, Arthur, & Co., Inc., New York, N. Y. Rayon piece goods. 274,626; Dec. 11. Class 42.
Bell & Gossett Company, Chicago, Ill. High-temperature bonding mortar cement. 273,488; Dec. 11. Class 12.
Belsh, Beatrix S., New York, N. Y. Adhesive foil silhouettes, designs, and figures. 264,632; Dec. 11. Class 38.
Best & Co., New York, N. Y. Shoes. 267,225; Dec. 11. Class 39.
Best & Co., Inc., New York, N. Y. Sweaters, sweater coats and vests, etc. 274,143; Dec. 11. Class 39.
Binney & Smith Co., New York, N. Y. Publication. 273,992; Dec. 11. Class 38.
Blendine Co., The. (See McKee, William J.)
Blue Earth Canning Company, Blue Earth, Minn. Canned corn. 274,434; Dec. 11. Class 46.
Blue Star Knitting Company, Milwaukee, Wis. Infant's knitted underwear. 270,167; Dec. 11. Class 39.
Borzone, Marengo & Co., Buenos Aires, Argentina. Marble handles. 267,345; Dec. 11. Class 41.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 273,772–82; Dec. 11. Class 39.
Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 273,898–9; Dec. 11. Class 39.
Boston Blacking Company Inc., Boston, Mass. Latex cement. 274,545; Dec. 11. Class 5.
Brauer, Carl Fr., G. m. b. H., Stettin, Germany. Duplicating machine utilizing stencils, etc. 264,137; Dec. 11. Class 37.
Bronston Bros. and Co., Inc., New York, N. Y. Straw hats. 268,576; Dec. 11. Class 39.
Bruner, S., Inc., New York, N. Y., assignor to E. Blancpain Fils, Villeret, Switzerland. Watch movements. 266,341; Dec. 11. Class 27.
Bryan Davis Publishing Company Inc., New York, N. Y. Magazine. 274,631; Dec. 11. Class 38.
Buhner Fertilizer Company, The, Seymour, Ind. Lawn and garden fertilizer. 269,389; Dec. 11. Class 10.
Burtis Co. Inc., The, Newark, N. J. Tobacco pouches, pipes, cigar and cigarette holders, etc. 274,034; Dec. 11. Class 8.
Butler Candies, Inc., Elgin, Ill. Candy. 273,900; Dec. 11. Class 46.
Cadet Knitting Company, Philadelphia, Pa. Hosiery. 272,468; Dec. 11. Class 39.
Cady, Murch R., Grand Rapids, Mich. Prophylactic rubber articles. 274,549–50; Dec. 11. Class 44.
Carson Pirie Scott & Co., Chicago, Ill. Knitted underwear for women and children. 267,531; Dec. 11. Class 39.
Cashman, Louis, New York, N. Y. Women's and children's underwear made of Milanese material. 269,576; Dec. 11. Class 39.
Cecelio, John, Boonton, N. J. Permanent-wave curling pads. 272,931; Dec. 11. Class 44.
Central Paint & Roofing Company, Louisville, Ky. Smooth-surface and slate-surfaced composition roofing. 269,714; Dec. 11. Class 12.
Central Paint & Roofing Company, Louisville, Ky. Bituminous and waterproof composition roof coatings. 269,715; Dec. 11. Class 12.
Chance Brothers and Co. Limited, West Smethwick, England. Glass. 274,435; Dec. 11. Class 33.
Chapin & Company, Chicago, Ill. Prepared poultry feeds. 274,762–4; Dec. 11. Class 46.
Charmray Mfg. Co. (See Nathanson, Max.)
Cheney Brothers, South Manchester, Conn. Fabrics in the piece. 274,768; Dec. 11. Class 42.
Chippewa Canning Co., Chippewa Falls, Wis. Canned vegetables. 274,633; Dec. 11. Class 46.
Cincinnati Varnish Company, The, Cincinnati, Ohio. Varnishes, stains, putty, etc. 257,855; Dec. 11. Class 16.
Cohen, Jos. S., & Sons Co. Inc., New York, N. Y. Smocks and aprons. 273,958; Dec. 11. Class 39.
Colonial Molasses Co. Inc., Brooklyn, N. Y. Molasses and honey. 272,391; Dec. 11. Class 46.
Compo Shoe Machinery Corp., Highland Park, N. J. Adhesive shoe cement. 273,903; Dec. 11. Class 5.
Compo Shoe Machinery Corp., Highland Park, N. J. Chemical preparation for softening shoe cement. 273,904; Dec. 11. Class 6.
Conduit and Gold, Chicago, Ill. Cravats, hats, caps, etc. 272,979; Dec. 11. Class 39.
Dandelion Pill Co. Inc., The, Stamford, Conn. Antibilious and cathartic pills. 273,447; Dec. 11. Class 6.
Daniel, Louis, Paris, France. Alloys of bronze. 264,672; Dec. 11. Class 14.
Daniel, Louis, Paris, France. Alloys of lead. 264,673; Dec. 11. Class 14.
Daroff, Harry, & Sons, Philadelphia, Pa. Outer suits for men and boys. 273,363; Dec. 11. Class 39.
Dartmoor Coat Co. Inc., New York, N. Y. Women's and men's topcoats. 273,490; Dec. 11. Class 39.
Davis, Edna C., doing business as Paxette, Brookline, Mass. Publication. 274,147; Dec. 11. Class 38.
Davis, Will, doing business as W. Davis Prod. Co., New Orleans, La. Yeast cream for the skin and skin diseases. 256,613; Dec. 11. Class 6.
Davison-Paxon Company, Atlanta, Ga. Men's coats, vests, and trousers. 270,281; Dec. 11. Class 39.
Delbon, Frank G., Brooklyn, N. Y. Leather shoes. 273,805; Dec. 11. Class 39.
De Havilland Aircraft Co., Ltd., The, Edgware, England. Airplanes. 273,187; Dec. 11. Class 19.
Dell Publishing Company, New York, N. Y. Magazine. 263,936; Dec. 11. Class 38.
Dletz, Barnett & Silver, New York, N. Y. Coats and suits. 274,148; Dec. 11. Class 39.
Douglas Laboratories. (See Hall, William D.)
Drackett Chemical Company, The, Cincinnati, Ohio. General household cleaning and polishing preparation in powder form. 273,188; Dec. 11. Class 4.
Dudden, Winifred R., Seattle, Wash. Magazine. 274,102; Dec. 11. Class 38.
Dunham, C. A., Company, Chicago, Ill. Radiator valves. 274,038; Dec. 11. Class 13.
Dunn, John F., doing business as John Wood Mfg. Co., Los Angeles, Calif. Gas water heaters. 272,605; Dec. 11. Class 34.
Dyckerhoff, Eduard, Schlos-Blumenau, near Wunstorf, Germany. Heat-protecting and insulating material. 262,067; Dec. 11. Class 12.
Ebberts, John, Shoe Company, Inc., Buffalo, N. Y. Shoes. 268,683–4; Dec. 11. Class 39.
Eidenberg, Peter, doing business as Kosmos Mineral Water Company, Philadelphia, Pa. Carbonated water and ginger ale. 232,722; Dec. 11. Class 45.
El Rey Products Co. (See Los Angeles Paper Manufacturing Co.)
Electro Refractories Corporation, The, Buffalo, N. Y. Refractory bricks, blocks, tile, etc. 270,177; Dec. 11. Class 12.
Endicott Johnson Corporation, Endicott, N. Y. Leather shoes. 273,809; Dec. 11. Class 39.
Eno Rubber Corporation, Los Angeles, Calif. Driver's shoe-heel rest for autovehicles. 273,589; Dec. 11. Class 19.
Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 274,323–4; Dec. 11. Class 22.





Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 274,326; Dec. 11. Class 22.
Faucett, John H., Bath, N. Y. Anthracite and bituminous coal. 270,835; Dec. 11. Class 1.
Federated Business Publications, Inc., New York, N. Y. Periodical or trade paper. 274,215; Dec. 11. Class 38.
Filbert, J. H., Inc., Baltimore, Md. Oleomargarine. 274,446; Dec. 11. Class 46.
Fils, E. Blancpain. (See Bruner, S., Inc.)
Finlay, Holt & Co. Ltd., New York, N. Y. Hosiery. 273,687; Dec. 11. Class 39.
Firestone Footwear Company, Hudson, Mass. Footwear of rubber, fabric, and rubber and fabric. 272,608; Dec. 11. Class 39.
Follman, Louis, New York, N. Y. Ready-mixed paint. 274,106; Dec. 11. Class 16.
Ford, J. B., Company, The, Wyandotte, Mich. Sal soda. 273,590–1; Dec. 11. Class 6.
Gardner, Rolland, doing business as Rolland Gardner and Company, Cleveland, Ohio. Conveying machinery. 273,689; Dec. 11. Class 23.
Gazett Candy Company, Green Bay, Wis. Candy. 274,639; Dec. 11. Class 46.
Gebrüder Hirsch & Co. G. m. b. H., Kunzendorf, Germany. Window glass, hollow glassware, glass bottles, etc. 266,656; Dec. 11. Class 33.
General Alloys Company, Boston, Mass. Castings of metal alloy. 272,155; Dec. 11. Class 14.
General Cable Corporation, New York, N. Y. Sheet copper, copper strip, copper rods, etc. 273,746; Dec. 11. Class 14.
General Dry Batteries, Inc., Cleveland, Ohio. Electric batteries. 273,543; Dec. 11. Class 21.
General Implement Company, Racine, Wis. Plows. 273,866; Dec. 11. Class 23.
General Petroleum Corporation of California, Los Angeles, Calif. Lubricating oils. 265,723; Dec. 11. Class 15.
General Tractor Company, The, Cleveland, Ohio. Tractors. 274,330; Dec. 11. Class 23.
Gentile Bros. Company, Cincinnati, Ohio. Fresh citrus fruits, fresh deciduous fruits, and fresh vegetables. 273,868; Dec. 11. Class 46.
Gladbrook Packing Co., doing business as Gladbrook Mustard Factory, Long Beach, Calif. Pickles. 252,198; Dec. 11. Class 46.
Goggin and Lown, Jacksonville, Fla. Root beer and other beverages. 272,331; Dec. 11. Class 45.
Goldman, Nathan, New York, N. Y. Electric tubes. 269,234; Dec. 11. Class 21.
Gossard, H. W., Co., The, now, by change of name, Associated Apparel Industries, Inc., Chicago, Ill. Corsets, garter belts, brassières, etc. 269,457; Dec. 11. Class 39.
Grand Rapids Plaster Company, Grand Rapids, Mich. Plaster. 250,344; Dec. 11. Class 12.
Gray, Peter, & Sons Inc., Cambridge, Mass. Humidifiers. 274,219; Dec. 11. Class 34.
Greenberg, Herman, doing business as The Petite Shoppe, Niles and Benton Harbor, Mich. Dresses and hats. 272,711; Dec. 11. Class 39.
Greene, Tweed & Co., New York, N. Y. Packing. 273,696–7; Dec. 11. Class 35.
Greenquist, Knute, doing business as Huron Dairy Products Co., Huron, S. Dak. Butter, cottage cheese. 272,268; Dec. 11. Class 46.
Haenichen Bros. Silk Co., Paterson, N. J. Umbrella silk piece goods. 271,249; Dec. 11. Class 42.
Hall, William D., doing business as Douglas Laboratories, Dayton, Ohio. Antiseptic. 271,697; Dec. 11. Class 6.
Handelsvennootschap onder de Firma Ph. Hakkert, jr., Handelende Tevens onder den Naam van First Dutch Stringmakers en Eerste Nederlandsche Snarenfabriek, Rotterdam, Netherlands. Strings. 257,674. Dec. 11. Class 22.
Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Combs. 273,404; Dec. 11. Class 40.
Hardeman-King Company, Oklahoma City, Okla. Insecticides. 272,334; Dec. 11. Class 6.
Harris, R., & Company, Washington, D. C. Finger rings. 268,978; Dec. 11. Class 28.
Hasbemesh, Inc., New York, N. Y. Soaps. 273,916; Dec. 11. Class 4.
Haviland, Theodore, & Company, Incorporated, New York, N. Y. China. 274,714; Dec. 11. Class 30.
Hawkins Companies, Incorporated, Boston, Mass. Shingles, doors and door jambs, etc. 271,758; Dec. 11. Class 12.
Henckels, J. A., Solingen, Germany. Nail scissors, cuticle scissors, corn razors, etc. 269,587; Dec. 11. Class 44.
Henckels, J. A., Solingen, Germany. Empty leather cases for manicure sets, sewing sets, library sets, etc. 266,933; Dec. 11. Class 3.
Hoffman & Chadys, Inc., New Haven, Conn. Packaged rice and malt extracts. 265,843; Dec. 11. Class 46.
Holeproof Hosiery Co., Milwaukee, Wis. Hosiery. 272,492; Dec. 11. Class 39.
Holt, Noah, Pueblo, Colo. Laboratory reports. 272,940; Dec. 11. Class 37.
Howard, Albert G., Trion, Ga. Coupon books. 274,007; Dec. 11. Class 38.
Hubbell, James L., Cleveland, Ohio. Printed advertising matter. 248,179; Dec. 11. Class 38.
Hughes-Keenan Company, The, Mansfield, Ohio. Truck bodies. 273,702; Dec. 11. Class 19.
Hurd Lumber Co., Medford and Merrill, Wis. Door and window frames, interior finish, etc. 270,491; Dec. 11. Class 12.
Huron Dairy Products Co. (See Greenquist, Knute.)
Hydraulic Brake Company, Los Angeles, Calif., and Detroit, Mich. Vehicle brakes and parts thereof. 270,593; Dec. 11. Class 19.
Ideal Shoe Manufacturing Co., Milwaukee, Wis. Boots and shoes. 274,158; Dec. 11. Class 39.
Ifyu, James, Sons & Company, Crown Point, Ind. Canned soup. 272,715; Dec. 11. Class 46.
Ingram, Frederick F., Company, Detroit, Mich. Shaving cream. 272,889; Dec. 11. Class 4.
International Corset Company, Aurora, Ill. Combination foundation garments. 272,716; Dec. 11. Class 39.
Iowa Biscuit Company, Burlington, Iowa. Cookies, cakes, and crackers. 274,346; Dec. 11. Class 46.
Jefferson Import Co., Inc., New York, N. Y. Leather shoes. 272,036; Dec. 11. Class 39.
Johnson, Maurice A., Chicago, Ill. Mustard. 263,765; Dec. 11. Class 46.
Jordan, Marsh, Company, Boston, Mass. Boots and shoes. 274,055; Dec. 11. Class 39.
Kalle & Co. Aktiengesellschaft, Wiesbaden-Biebrich, Germany. Light-sensitive copying and photographic paper. 260,892; Dec. 11. Class 26.
Keppinger, Urban A., doing business as Kolapso Products Company, Portland, Oreg. Household stools and chairs for children. 273,549; Dec. 11. Class 32.
King Features Syndicate, Inc., New York, N. Y. Newspaper cartoons. 260,277; Dec. 11. Class 38.
Kinzinger & d'Hengelière Bürgerliches Brauhaus Zell-Würzburg A. G., Wurzburg, Germany. Malt beverages. 263,827; Dec. 11. Class 48.
Kirsch, David, doing business as Kirsch Jewelry & Novelty Co., St. Louis, Mo. Watch chains, neck chains, necklaces, etc. 263,004; Dec. 11. Class 28.
Klein, Nathan, doing business as National Electric Products Co., New York, N. Y. Electric drills, hammers, fans, etc. 272,279; Dec. 11. Class 21.
Kolapso Products Company. (See Keppinger, Urban A.)
Kosmos Mineral Water Company. (See Eidenberg, Peter.)
Krank, A. J., Mfg. Co., St. Paul, Minn. Preparation for the eye lashes and brows. 274,056; Dec. 11. Class 6.
Krider, Walter W., Brooklyn, N. Y. Ground mixture from which artificial stone may be made. 272,409; Dec. 11. Class 1.
La-Chic-Parisian. (See Louis, Isidore.)
La Crosse Clothing Company, La Crosse, Wis. Work clothing. 274,347; Dec. 11. Class 39.
Lady Grace Pickle Co. (See W & W Pickle & Canning Co.)
Laird, E. M., Airplane Co., Chicago, Ill. Airplanes. 269,791; Dec. 11. Class 19.
La Nasa, A. S., Bakery, New Orleans, La. Bread. 269,123; Dec. 11. Class 46.
Larimore, J. T., Company, The, Foxboro, Mass. Bakery products. 265,109; Dec. 11. Class 46.
Lastaseal Paint Corporation, Zanesville, Ohio. Coating, preservative, and waterproofing material. 255,753; Dec. 11. Class 12.
Lawyers Co-Operative Publishing Company, The, Rochester and New York, N. Y. Series of law books. 273,972; Dec. 11. Class 38.
Lee-Precour Company, Oshkosh, Wis. Coffee, mustard, and salad dressing. 273,973; Dec. 11. Class 46.
Libby, McNeill & Libby, Chicago, Ill. Malt extracts. 273,823; Dec. 11. Class 46.
Lillian Knitting Mills Co., Albemarle, N. C. Hosiery. 274,162; Dec. 11. Class 39.
Loewendahl, Walther, Shoe Co., Inc., New York, N. Y. Women's sandals. 272,838; Dec. 11. Class 39.
Los Angeles Paper Manufacturing Co., also doing business as El Rey Products Co., Los Angeles, Calif. Prepared roofing, building papers, asphalt shingles, etc. 272,290–2; Dec. 11. Class 12.
Louis, Isidore, doing business as La-Chic-Parisian, Brooklyn, N. Y. Ladies' gowns, dresses. 261,638; Dec. 11. Class 39.
Lumb Knitting Company, Pawtucket, R. I. Knit underwear. 273,149; Dec. 11. Class 39.
Magnus Imports, Ltd., doing business as John Shannon & Son, Ltd., New York, N. Y. Men's overcoats, sport and top coats, and boys, women's, and misses' garments. 264,176; Dec. 11. Class 39.
Magus Publishing Company, Inc., New York, N. Y. Publication. 273,926; Dec. 11. Class 38.
Major Manufacturing Co., New York, N. Y. Adhesive cement. 272,504; Dec. 11. Class 5.
Marathon Shoe Co., Wausau, Wis. Leather shoes. 273,505; Dec. 11. Class 39.
Marion Machine, Foundry & Supply Co., Marion, Ind., and Tulsa, Okla. Ferrous-metal alloy. 272,823; Dec. 11. Class 14.
Marshak Maltmolak Co. Inc., Brooklyn, N. Y. Chocolate preparation for dessert. 273,554; Dec. 11. Class 46.
Matthews, W. N., Corporation, St. Louis, Mo. Storage tanks for painting apparatus. 256,353; Dec. 11. Class 2.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

McKee, William J., doing business as The Blendine Co., Los Angeles, Calif. Chemical preparation. 254,677; Dec. 11. Class 6.
Medina, J. A., Company, New York, N. Y. Green coffee. 268,294; Dec. 11. Class 46.
Merchants Tire Company, St. Louis, Mo. Rubber automobile tires, tire tubes, and tire covers. 256,202; Dec. 11. Class 35.
Mershon, Eddy, Parker Company, Saginaw, Mich. Flower boxes, porch boxes, and garden benches. 272,727; Dec. 11. Class 32.
Miller, Albert, & Company, Chicago, Ill. Fresh potatoes. 274,084; Dec. 11. Class 46.
Milner, Thomas W., Rockford, Ill. Root beer. 262,759; Dec. 11. Class 45.
Moore, M., Shirt Factories Co., The, Canton, Ohio. Men's work shirts. 273,407; Dec. 11. Class 39.
Morris, Philip, & Co. Ltd. Incorporated, New York, N. Y. Cigarettes. 274,063; Dec. 11. Class 17.
Nathanson, Max, doing business as Charmray Mfg. Co., Chicago, Ill. Underwear. 274,353; Dec. 11. Class 39.
National Association for the Advancement of Colored People, New York, N. Y. Illustrated magazine. 273,981; Dec. 11. Class 38.
National Brake & Electric Company, Milwaukee, Wis. Air compressors and air-compressing equipment. 272,507; Dec. 11. Class 23.
National Electric Products Co. (See Klein, Nathan.)
National Gypsum Company, Buffalo, N. Y. Plaster. 269,739; Dec. 11. Class 12.
National Kream Co., Inc., New York, N. Y. Doughnut flour. 274,665; Dec. 11. Class 46.
National Kream Co., Inc., New York, N. Y. Doughnuts. 274,666; Dec. 11. Class 46.
National Licorice Company, Brooklyn, N. Y. Licorice candy. 273,666; Dec. 11. Class 46.
National Towel Vendor Company, The, San Francisco, Calif. Paper towels. 271,618; Dec. 11. Class 37.
Needlecraft Publishing Company, Augusta, Me. Magazines. 273,834; Dec. 11. Class 38.
Neustadter Bros., San Francisco, Calif. Hosiery. 273,241; Dec. 11. Class 39.
Newel, John H., doing business as Newel Food Products Company, Indianapolis, Ind. Noodles. 273,375; Dec. 11. Class 46.
New England Fish Co., Seattle, Wash. Canned salmon. 253,039; Dec. 11. Class 46.
Newmark, P. A., & Co., Inc., Los Angeles, Calif. Shirts, collars, pajamas, etc. 273,003; Dec. 11. Class 39.
New York Export Co., New York, N. Y. Hosiery. 273,242; Dec. 11. Class 39.
New York Lubricating Oil Company, New York, N. Y. Lubricating greases and oils. 272,116; Dec. 11. Class 15.
Nippon Dry Goods Company, San Francisco, Calif. Handkerchiefs. 274,354; Dec. 11. Class 42.
Oakleaf Mills, La Grange, Ga. Industrial wiping cloths. 266,476; Dec. 11. Class 29.
Olmsted, George W., doing business as Southern Water Heater Company, Los Angeles, Calif. Gas-burning water heaters. 270,938; Dec. 11. Class 34.
Olympia Laboratory, New Orleans, La. Prophylactic rubber articles. 274,169; Dec. 11. Class 44.
Olympia Laboratory, New Orleans, La. Prophylactic rubber articles. 274,172; Dec. 11. Class 44.
Panorama Publishing Co., Inc., New York, N. Y. Weekly magazine. 274,277; Dec. 11. Class 38.
Pape-Thiebes Cutlery Co., St. Louis, Mo. Carving and butcher knives, pocketknives, etc. 269,689; Dec. 11. Class 23.
Paradise Pharm. Lab. (See Peltzman, Henry.)
Parma Importing Company, St. Louis, Mo. Grated cheese. 268,306; Dec. 11. Class 46.
Par-X Service Corporation, Philadelphia, Pa. Bread, butter, and eggs. 258,280; Dec. 11. Class 46.
Paxette. (See Davis, Edna C.)
Pekarek, Emil, doing business as Quinnlard Mfg. Company, Whiting, Ind. Salve. 274,125; Dec. 11. Class 6.
Peltzman, Henry, doing business as Paradise Pharm. Lab., Glendale, N. Y. Stomachic antacid and laxative. 267,990; Dec. 11. Class 6.
Perrin Glove Company, Inc., New York, N. Y. Leather gloves. 264,046; Dec. 11. Class 39.
Petite Shoppe, The. (See Greenberg, Herman.)
Phelps & Sibley Co., Inc., Cuba, N. Y. Dairy feed. 267,142; Dec. 11. Class 46.
Philadelphia Quartz Company, Philadelphia, Pa. Silicate of soda. 274,126; Dec. 11. Class 6.
Pierce Petroleum Corporation, Wilmington, Del., and St. Louis, Mo. Lubricating oils. 248,443; Dec. 11. Class 15.
Pierson Company, The, Rockford, Ill. Cabinets for radio and phonograph apparatus. 274,064; Dec. 11. Class 32.
Pittsburgh Gasoline Company, Lancaster, Pa. Gasoline, kerosene, etc. 269,254; Dec. 11. Class 15.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Flat glass, white in color. 274,730; Dec. 11. Class 33.
Pittsburgh Plate Glass Company, Pittsburgh, Pa. Varnishes, paints, putties, etc. 274,794; Dec. 11. Class 16.
Plant Company, Minneapolis, Minn. Toothbrushes. 274,795; Dec. 11. Class 29.
Plant, Thomas G., Corporation, Boston, Mass. Boots, shoes, and slippers. 273,067; Dec. 11. Class 39.
Priddy, Chas. W., & Company, Inc., Norfolk, Va. Fertilizers. 274,069; Dec. 11. Class 10.
Pure Oil Company, The, Chicago, Ill. Oils and greases. 271,995; Dec. 11. Class 15.
Purfex Mfg. Co., Philadelphia, Pa. Liquid preparation for fabric cleaners, metal polish, etc. 262,328; Dec. 11. Class 4.
Quinnlard Mfg. Company. (See Pekarek, Emil.)
Radio Corporation of America, New York, N. Y. Broadcast transmitters, quartz crystals, modulation reactors, etc. 264,846; Dec. 11. Class 21.
Railroad Jones Oil Company, Winston-Salem, N. C. Gasoline, lubricating oils and greases. 270,717; Dec. 11. Class 15.
Regina Corporation, The, Rahway, N. J. Attachment for electric vacuum cleaners for aerating, etc., purposes. 269,365; Dec. 11. Class 21.
Regina Corporation, The, Rahway, N. J. Electric vacuum cleaners. 272,578; Dec. 11. Class 21.
Reis, Robert, & Co., New York, N. Y. Athletic or pull-over shirts. 266,557; Dec. 11. Class 39.
Reis, Robert, & Co., New York, N. Y. Bathing suits, sweaters, etc. 272,580; Dec. 11. Class 39.
Reliable Typewriter & Adding Machine Corporation, Chicago, Ill. Calculating machines. 274,478; Dec. 11. Class 26.
Remington Arms Company, Inc., Bridgeport, Conn., and Ilion and New York, N. Y. Marking ink. 272,670; Dec. 11. Class 11.
Rice-Stix Dry Goods Co., St. Louis, Mo. Textile piece goods. 271,823; Dec. 11. Class 42.
Rogers Peet Company, New York, N. Y. Men's and boys' hats. 273,317–18; Dec. 11. Class 39.
Rumidor Corporation, The, Union City, N. J. Cigars, cigarettes, tobacco, and snuff. 274,675; Dec. 11. Class 17.
Scatafi Chemical Co., Inc., Brooklyn, N. Y. Insole for shoes. 273,016; Dec. 11. Class 39.
Schwarz, Louis, Chicago, Ill. Safety-razor blades. 274,574; Dec. 11. Class 23.
Scrimgeour, William, Washington, D. C. Diesel-engine exhaust valves. 273,383; Dec. 11. Class 23.
Scriptex Ink & Paste Co., Philadelphia, Pa. Writing inks. 273,614; Dec. 11. Class 11.
Scudder, Asher L., doing business as Topgrades Oil Co., Fort Worth, Tex. Lubricating oils. 263,071; Dec. 11. Class 15.
Sears, Roebuck and Co., Chicago, Ill. Harness. 273,563; Dec. 11. Class 3.
Selart Corporation, The, Baltimore, Md. Shoe-trees 271,149; Dec. 11. Class 50.
Selart Corporation, The, Baltimore, Md. Shoe-trees. 271,573; Dec. 11. Class 50.
Shannon, John, & Son, Ltd. (See Magnus Imports, Ltd.)
Siegelman Laboratories, Inc., Los Angeles, Calif. Cosmetic preparation face powder, rouge, cold creams, etc. 269,749; Dec. 11. Class 6.
Silk, John D., & Company, Chicago, Ill. Coal. 272,907; Dec. 11. Class 1.
Sintz, Claude, doing business as Tubular Specialty Manufacturing Company, Detroit, Mich. Sewing-machine, typewriter, and similar stands. 273,519; Dec. 11. Class 32.
Sir, Harry, & Son, Inc., New York, N. Y. Shoes. 267,086; Dec. 11. Class 39.
Smith Frederick G., & Co., Freeport, Ill. Coal. 268,640; Dec. 11. Class 1.
Societe Industrielle des Produits Melasses, Marseille, France. Flour. 270,891; Dec. 11. Class 46.
Solray Company Incorporated, Chicago, Ill. Ultra-violet lamps. 268,118; Dec. 11. Class 44.
Sommer, Samuel, doing business as S. Sommer & Co., San Francisco, Calif. Permanent-waving machines and parts thereof. 271,321; Dec. 11. Class 44.
Southern Water Heater Company. (See Olmsted, George W.)
Southern Webbing Mills, Inc. Guilford County, Near Greensboro, N. C. Narrow elastic tape. 272,439–40; Dec. 11. Class 40.
Speidel Chain Co., Providence, R. I. Bracelets, buckles, collar buttons, etc. 265,933; Dec. 11. Class 28.
Sphinx Chocolate Corporation, Brooklyn, N. Y. Chocolate bars. 266,493; Dec. 11. Class 46.
Spicer and Company, Glendale Calif. Preparation for the treatment of flatulence, etc. 273,347; Dec. 11. Class 6.
Standard Oil Company, Whiting, Ind., and Chicago, Ill. Hydrocarbon cleaning fluid. 273,163; Dec. 11. Class 4.
Stetson Shoe Company, Inc., The, Weymouth, Mass. Boots and shoes. 273,326; Dec. 11. Class 39.
Stone-Ordean-Wells Company Duluth, Minn. Jelly powder. 265,415; Dec. 11. Class 46.
Style Dress Co., Inc., The, New York, N. Y. Dresses. 273,079–82; Dec. 11. Class 39.
Superior Electric Products Corporation, St. Louis, Mo. Electric percolators, toasters, table stoves, etc. 271,578; Dec. 11. Class 21.



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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Temptation and Calamity Fish Bait Company, The, Baltimore, Md. Trolling fish bait. 273,853; Dec. 11. Class 22.
Thrift Inc., Stockton, Calif. Merchandise coupons and books. 273,947; Dec. 11. Class 38.
Tip's Tool Company, Inc., Taylorville, Ill. Wire tong supports, dead-end sets, etc. 270,896; Dec. 11. Class 23.
Todd, Mable & Co., New York, N. Y. Fountain pens and mechanical pencils. 273,196; Dec. 11. Class 37.
Topgrades Oil Co. (See Scudder, Asher L.)
Torres Gener Hermanos, Herederos de Jose Gener, Habana, Cuba. Cigars, cigarettes, and smoking tobacco. 273,989; Dec. 11. Class 17.
Transo Envelope Company, Chicago, Ill. Envelopes. 264,396; Dec. 11. Class 37.
Tubular Specialty Manufacturing Company. (See Sintz, Claude.)
Unger, Aaron, Inc., New York, N. Y. Candies, fancy dry fruits, sardines, etc. 262,829; Dec. 11. Class 46.
Union Carbide Sales Company, New York, N. Y. Printed publications. 274,243; Dec. 11. Class 38.
Union Special Overall Company, The, Cincinnati, Ohio. Clothing. 270,982; Dec. 11. Class 39.
Union Tobacco Company, The, New York N. Y. Cigarettes. 273,272–3; Dec. 11. Class 17.
United States Gypsum Company, Chicago, Ill. Concrete molded products. 272,012; Dec. 11. Class 12.
U. S. Oil Company, Providence, R. I. Lubricating oils and greases. 270,902; Dec. 11. Class 15.
United States Rubber Company, New York, N. Y. Rubber tires for vehicles. 270,266; Dec. 11. Class 35.
Universal Fruits Corporation, Cincinnati, Ohio. Maraschino cherries, preserved fruits, etc. 274,139; Dec. 11. Class 46.
Val Blatz Brewing Co., Milwaukee, Wis. Chewing gum. 272,836–7; Dec. 11. Class 46.
Valentine Laboratories, Inc. (See Walgreen Co.)
Vignes-Bombet Grocer Company, Incorporated, Baton Rouge, La. Canned fruits, canned vegetables, coffees, teas, etc. 273,122; Dec. 11. Class 46.
Vortex Manufacturing Company, The, Cleveland, Ohio. Dampproofing, waterproofing, and plaster keys. 273,085; Dec. 11. Class 12.
W & W Pickle & Canning Co., Montgomery, Ala. Pickles. 274,178; Dec. 11. Class 46.
W & W Pickle & Canning Co., doing business as Lady Grace Pickle Co., Montgomery, Ala. Pickles. 274,414; Dec. 11. Class 46.
Walgreen Co., doing business as Valentine Laboratories, Inc., Chicago, Ill. Shaving cream. 273,729; Dec. 11. Class 4.
Walker and Pasque, Detroit, Mich. Vibratory massage and beautifying devices. 270,761; Dec. 11. Class 44.
Walnut Creek Milling Co., Inc., The, Great Bend, Kans. Wheat flour. 274,179; Dec. 11. Class 46.
Wechsler-Barber Silk Company, Inc., New York, N. Y. Piece goods of silk, etc. 273,168; Dec. 11. Class 42.
Weimberger, Harry, New York, N. Y. Rubber heels. 266,002; Dec. 11. Class 39.
Weiss, Willhelm Company, Inc., New York, N. Y., and Passaic, N. J. Piece goods of silk, etc. 274,870–1; Dec. 11. Class 42.
West End Brewing Co., The, Utica, N. Y. Ginger ale, beverages, and syrups for making same. 270,814; Dec. 11. Class 45.
West End Brewing Co., The, Utica, N. Y. Malt syrup. 272,590; Dec. 11. Class 46.
West Point Knitwear Mills, Philadelphia, Pa. Knitted swimming suits, bathing suits, and sweaters for women and children. 273,424; Dec. 11. Class 39.
Western Chemical Co., Kansas City, Mo. Solvent. 274,420; Dec. 11. Class 6.
Western Milk Company, Salt Lake City, Utah. Unsweetened evaporated milk. 273,170; Dec. 11. Class 46.
Western States Mfg. Co., Sioux City, Iowa. Adhesive cement, etc. 269,269; Dec. 11. Class 5.
Weyenberg Shoe Mfg. Co., Milwaukee, Wis. Leather shoes. 273,038; Dec. 11. Class 39.
White Luggage Co., Inc., New York, N. Y. Juvenile wardrobe hatboxes and suitcases. 274,246; Dec. 11. Class 3.
White Rock Silica Company, Chicago, Ill. White sand, silica sand, etc. 273,425; Dec. 11. Class 1.
Wiener Werkstätte Gesellschaft m. b. H., Vienna, Austria. Pottery, earthenware, china, etc. 267,677; Dec. 11. Class 30.
Wiener Werkstätte Gesellschaft m. b. H., Vienna, Austria. Printed crepe, silk crepe, etc. 267,678; Dec. 11. Class 42.
Wing Blade Company, Indianapolis, Ind. Safety-razor blades. 273,732; Dec. 11. Class 23.
Wolverine Supply & Manufacturing Company, Pittsburgh, Pa. Mechanical toys. 266,447–8; Dec. 11. Class 22.
Wood, John, Mfg. Co. (See Dunn, John F.)
World Wide Pictures, Inc., New York, N. Y. Motion-picture photoplays. 274,749; Dec. 11. Class 26.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Pianos, player pianos, banjos, etc. 272,743; Dec. 11. Class 36.
Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 274,689; Dec. 11. Class 42.
Zollinger & Schroth, Inc., New York, N. Y. Silk piece goods. 274,691; Dec. 11. Class 42.
Zulu Toy Manufacturing Company, Inc., The, Battle Creek, Mich. Board game. 274,751; Dec. 11. Class 22.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 1.

Flowers, Cut. James Weir, Inc. 250,696; Dec. 11.
Marble, uncut and partly cut. José Sanchiz de Quesada, Marquis de Valderas. 250,714; Dec. 11.
Rock and marble, Uncut. Fèvre & Cie. 250,701; Dec. 11.

## CLASS 2.

Bags, Paper. Master Metal Products, Inc. 250,413; Dec. 11; Serial No. 270,194; published Sept. 25, 1928.
Cases, Empty vanity. Lionel Trading Co. Inc. 250,533; Dec. 11; Serial No. 267,367; published Sept. 25, 1928.
Gelatin capsules, Soft. Grape Capsule Company. 71,356; renewed Nov. 17, 1928.

## CLASS 4.

Cleaner, Liquid. Hillyard Chemical Company. 250,718; Dec. 11.
Cleaner, Liquid dry. Mid-States Chemical Company. 250,380; Dec. 11; Serial No. 270,384; published Sept. 18, 1928.
Cleaner, Nonsaponaceous liquid dry. R. W. E. Southworth. 250,495; Dec. 11; Serial No. 269,434; published Sept. 18, 1928.
Cleaning fluid, Dry-. Wilbert Products Co. 250,587; Dec. 11; Serial No. 268,898; published Sept. 18, 1928.
Cleaning, Materials for. R. J. H. Hope. 250,395; Dec. 11; Serial No. 245,213; published Sept. 18, 1928.
Cleaning preparation. J. H. Rosenheim. 250,589; Dec. 11; Serial No. 268,817; published Sept. 18, 1928.
Polish, Metal. International Metal Polish Co. 72,754; renewed Feb. 16, 1929.
Polishing cream, soap powder, etc., Metal-. I. Barnett. 250,545; Dec. 11; Serial No. 266,706; published Sept. 18, 1928.
Polishing dust cloths, Chemically-impregnated. Parker-Regan Corporation. 250,505; Dec. 11; Serial No. 269,142; published Sept. 18, 1928.
Polishing or softening leather, Preparations for. Abbott Finishing Corporation. 250,510; Dec. 11; Serial No. 269,067; published Sept. 18, 1928.
Soap. Palmolive-Peet Company. 250,434–5; Dec. 11; Serial Nos. 269,686–7; published Sept. 18, 1928.
Soap. A. H. Stines. 250,456; Dec. 11; Serial No. 270,615; published Sept. 18, 1928.
Soap paste. H. Johnson. 250,443; Dec. 11; Serial No. 270,747; published Sept. 18, 1928.
Soaps. J. M. Garcia y Miranda. 250,540; Dec. 11; Serial No. 268,871; published Sept. 18, 1928.
Soaps. P. P. Mulhens. 250,565; Dec. 11; Serial No. 261,800; published Sept. 18, 1298.

## CLASS 6.

Ammonia. National Ammonia Company. 250,515; Dec. 11; Serial No. 265,283; published Sept. 25, 1928.
Antiseptic powder. L. Havener. 250,604; Dec. 11; Serial No. 271,118; published Sept. 25, 1928.
Astringents, astringent cerates, hand creams, etc. Thinc Products, Inc. 250,642; Dec. 11; Serial No. 267,616; published Sept. 25, 1928.
Chemical preparations or solutions. Browncone Co. Inc. 250,543; Dec. 11; Serial No. 266,787; published Oct. 2, 1928.
Chemicals. Hanson & Van Winkle Co. 73,470; renewed Apr. 20, 1929.
Chemicals. Rhenania-Kunheim Verein Chemischer Fabriken A.-G. 250,654; Dec. 11; Serial No. 268,464; published Oct. 2, 1928.
Cosmetic preparation. Siegelman Laboratories, Inc. 250,430; Dec. 11; Serial No. 269,747; published Oct. 2, 1928.
Cosmetic preparation, face powder, etc. Siegelman Laboratories, Inc. 250,723; Dec. 11.
Crème, cold crème, face powder, etc., Face. S. W. Johnson. 250,697; Dec. 11.
Dressing for wounds and sores, Protective. Antiseptic Products Company. 250,497; Dec. 11; Serial No. 269,383; published Sept. 25, 1928.

Dyestuffs and intermediates. Wettersol Dyestuff Corporation. 250,632; Dec. 11; Serial No. 268,014; published Sept. 25, 1928.
Dyestuffs and intermediates. Wetterwald & Pfister Company. 250,438; Dec. 11; Serial No. 269,560; published Sept. 25, 1928.
Extract of the spleen. Fairchild Bros. & Foster. 250,621; Dec. 11; Serial No. 271,175; published Sept. 25, 1928.
Hair tonic or preparation. Hairoleum Company. 250,593; Dec. 11; Serial No. 270,126; published Sept. 25, 1928.
Herb tea. S. C. Wells & Company. 250,561; Dec. 11; Serial No. 262,637; published Oct. 2, 1928.
Insecticide. S. P. Turnbull. 250,551; Dec. 11; Serial No. 266,062; published Sept. 25, 1928.
Insecticides. C. B. Franklin. 250,579; Dec. 11; Serial No. 271,485; published Oct. 2, 1928.
Laxative chewing tablets. Health Products Corporation. 250,691; Dec. 11; Serial No. 267,656; published Oct. 16, 1928.
Liquid compound for the prevention of freezing and boiling of water in radiators. National Carbon Company. 250,542; Dec. 11; Serial No. 266,824; published Sept. 25, 1928.
Lotions, body balms, cold cream, etc., Alcohol massage. R. M. Froehlich. 250,424; Dec. 11; Serial No. 269,841; published Oct. 2, 1928.
Make-ups, Theatrical. M. Factor. 250,507–8; Dec. 11; Serial Nos. 269,104–5; published Oct. 2, 1928.
Medical preparation. Research Products Company. 250,600; Dec. 11; Serial No. 270,051; published Oct. 2, 1928.
Medicinal confections, beverages, and preparations. Oberhaeusser & Landauer. 31,856; renewed Aug. 9, 1928.
Medicinal preparation. H. E. Cummings. 250,511; Dec. 11; Serial No. 269,062; published Oct. 2, 1928.
Medicine. H. P. Currier. 250,580; Dec 11; Serial No. 271,476; published Oct. 2, 1928.
Medicine. Fowler's Medicated Fruits. 250,647; Dec. 11; Serial No. 267,412; published Sept. 25, 1928.
Medicine. Hollings-Smith Co. 250,467; Dec. 11; Serial No. 270,483; published Sept. 25. 1928.
Medicine. Vial. 72,610; renewed Feb. 9, 1929.
Medicines. Dr. Bob Medical Company. 71,434; renewed Nov. 24, 1928.
Oil for chemical, etc., purposes, White. Stanco Incorporated. 250,426; Dec. 11; Serial No. 269,803; published Oct. 2, 1928.
Ointment or liniment used in treating boils, etc. W. A. Smiley. 250,557; Dec 11; Serial No 262,940; published Sept 25, 1928.
Ointments. Senola Drug Co. 250,382; Dec. 11; Serial No. 270,354; published Oct. 2, 1928.
Perfumery, face powder, etc. M. Blume. 250,519; Dec. 11; Serial No. 264,960; published Oct. 2, 1928.
Perfumery, toilet waters, lip sticks, etc. P. Coats. 250,496; Dec. 11; Serial No. 269,394; published Oct. 2, 1928.
Perfumes. J. A. Rietmann. 250,577; Dec. 11; Serial No. 258,786; published Sept. 25, 1928.
Pharmaceutical preparation. Hy-Nap Chemical Company. 250,651; Dec. 11; Serial No. 268,546; published Sept. 25, 1928.
Poison. L. V. Taylor. 250,379; Dec. 11; Serial No. 270,400; published Sept. 25, 1928.
Powder and cream, Depilatory. Hall & Ruckel, Inc. 250,619; Dec. 11; Serial No. 271,184; published Sept. 25, 1928.
Powder, Douche. W. B. Smith. 250,421; Dec. 11; Serial No. 269,864; published Oct. 2, 1928.
Powder, lip sticks, perfumes, etc., Face and talc. O. A. Gross. 250,537; Dec. 11; Serial No. 267,193; published Sept. 25, 1928.
Powders and rouges, lip sticks, face lotion, etc., Compact. I. Miller & Sons, Inc. 250,663; Dec. 11; Serial No. 257,691; published Sept. 25, 1928.
Preparation, Blood-forming and blood-improving. Aktiengesellschaft Hommel's Haematogen. 71,984; renewed Dec. 29, 1928.
Purifier with cod-liver oil, Blood. Anchor Drug Co. 250,650; Dec. 11; Serial No. 268,570; published Sept. 25, 1928.
Remedy. N. C. Poison. 72,726; renewed Feb. 16, 1929.
Remedy. H. M. Strange. 73,345; renewed Apr. 13, 1929.
Salt used as a dietary substitute for table salt. Sharp & Dohme, Incorporated. 250,447; Dec. 11; Serial No. 270,727; published Sept. 25, 1928.
Salve. J. B. Hutchins. 250,466; Dec. 11; Serial No. 270,492; published Oct. 2, 1928.
Salve for animals, Healing. Bickmore Gall Cure Co. 72,599; renewed Feb. 9, 1929.
Tonic for dressing the hair. F. E. Ischerland. 250,626; Dec. 11; Serial No. 271,258; published Sept. 25, 1928.
Tonic, General. Societa Anonima Distillerie G. Ramazzotti fu Ausano. 250,653; Dec. 11; Serial No. 268,469; published Sept. 25, 1928.

CLASS 7.

Rope and cables and for high-carbon wire, Wire. Union Wire Rope Corporation. 250,406; Dec. 11; Serial No. 270,307; published Sept. 25, 1928.
Twine. Hanover Cordage Company. 250,628; Dec. 11; Serial No. 271,253; published Sept. 25, 1928.
Twine, Hemp. Hanover Cordage Company. 250,616; Dec. 11; Serial No. 271,252; published Set. 25, 1928.
Twines, White fibre. Hanover Cordage Company. 250,627; Dec. 11; Serial No. 271,254; published Sept. 25, 1928.

CLASS 9.

Dynamite. Hercules Powder Company. 250,525; Dec. 11; Serial No. 264,304; published Sept. 25, 1928.
Fireworks. National Fireworks Distributing Co. of Arizona. 250,576; Dec. 11; Serial No. 259,251; published Sept. 25, 1928.
Matches. Amtorg Trading Corporation. 250,481; Dec. 11; Serial No. 270,869; published Sept. 25, 1928.
Matches. Vulcan Match Co. 250,581; Dec. 11; Serial No. 271,460; published Sept. 25, 1928.

CLASS 10.

Fertilizer. Baugh and Sons Company. 250,694; Dec. 11.
Fertilizer. American Fertilizing Company. 250,415; Dec. 11; Serial No. 270,162; published Sept. 25, 1928.
Fertilizers. Georgia Chemical Works. 250,414; Dec. 11; Serial No. 270,181; published Sept. 25, 1928.
Fertilizers. Limestone Products Corporation of America. 250,383; Dec. 11; Serial No. 270,342; published Sept. 25, 1928.
Fertilizers. Limestone Products Corporation of America. 250,679; Dec. 11; Serial No. 270,037; published Sept. 25, 1928.

CLASS 11.

Dryers for inks. H. Lanschey, Inc. 250,392; Dec. 11; Serial No. 247,329; published Sept. 25, 1928.
Ink ribbons and carbon papers. A. Padberg. 250,472; Dec. 11; Serial No. 270,779; published Oct. 2, 1928.
Inking materials. H. Lanschey, Inc. 250,391; Dec. 11; Serial No. 247,330; published Sept. 25, 1928.
Inking materials, Antiabsorption. H. Lanschey, Inc. 250,393–4; Dec. 11; Serial Nos. 247,326–7; published Sept. 25, 1928.
Inking materials, Antisiccative. H. Lanschey, Inc. 250,398; Dec. 11; Serial No. 247,322; published Sept. 25, 1928.
Inking materials for increasing pliability. H. Lanschey, Inc. 250,396; Dec. 11; Serial No. 247,325; published Sept. 25, 1928.
Inking materials for reviving and increasing pliability. H. Lanschey, Inc. 250,397; Dec. 11; Serial No. 247,323; published Sept. 25, 1928.
Metal leaf and pigment mounted on a roll of paper, Imitation. Peerless Roll Leaf Co. 250,726; Dec. 11.

CLASS 12.

Asphalt, asphaltic binder, cement, etc. Gilmore Oil Company. 250,506; Dec. 11; Serial No. 269,112; published Sept. 4, 1928.
Asphaltic surfacing material. J. W. Craig. 250,678; Dec. 11; Serial No. 248,090; published Aug. 7, 1928.
Baffle mix. Power Plant Economy Co. 250,644; Dec. 11; Serial No. 267,454; published Aug. 7, 1928.
Bituminous compounds and emulsions miscible in water. Bitumuls Corporation. 250,563; Dec. 11; Serial No. 262,389; published Aug. 14, 1928.
Bituminous materials. Arthur Victor Leggo and Ernest Barton Hack. 250,667; Dec. 11; Serial No. 256,527; published Aug. 7, 1928.
Blocks and sheets formed of cork and cement. W. H. D. Hinchman. 250,502; Dec. 11; Serial No. 269,190; published Sept. 11, 1928.
Boards or sheets made of cork. Armstrong Cork & Insulation Company. 250,503; Dec. 11; Serial No. 269,176; published Sept. 11, 1928.
Building units. Cemroc, Inc. 250,517; Dec. 11; Serial No. 265,257; published Aug. 7, 1928.
Cabins, Sectional camp. Foldahome Manufacturing Company of California. 250,513; Dec. 11; Serial No. 265,783; published Aug. 7, 1928.
Cement, Building. Utica Hydraulic Cement Company. 250,725; Dec. 11.
Cement or mortar, High-temperature. Denver Fire Clay Company. 250,717; Dec. 11.
Cements, High-temperature. J. A. Faulkner. 250,722; Dec. 11.
Columns, metal window, etc., Steel supporting. James Manufacturing Company. 250,539; Dec. 11; Serial No. 267,054; published Aug. 7, 1928.
Doors, Garage. Overhead Door Corporation. 250,386; Dec. 11; Serial No. 219,134; published Aug. 21, 1928.
Doors, lumber, and plywood, etc. Morrill & Sturgeon Lumber Company. 250,516; Dec. 11; Serial 265,282; published Aug. 7, 1928.
Doors, Wooden. Western Door Manufacturers Association. 250,532; Dec. 11; Serial 263,449; published Aug. 7, 1928.
Flooring and trim, Hardwood. Bradley Lumber Company of Arkansas. 250,655; Dec. 11; Serial 268,418; published Sept. 4, 1928.
Granite in blocks, Quarried. Elberton Quarries Inc. 250,518; Dec. 18; Serial No. 265,201; published Aug. 21, 1928.
Lath, Metal. North Western Expanded Metal Company. 250,531; Dec. 11; Serial No. 263,603; published Aug. 7, 1928.
Lime, Ground. Kelley Island Lime and Transport Company. 250,637; Dec. 11; Serial 267,775; published Aug. 14, 1928.



Lumber, timbers, beams, shingles, etc. Weyerhaeuser Forest Products. 250,548; Dec. 11; Serial 266,409; published Aug. 14, 1928.
Materials for use in partition blocks. Structural Gypsum Corporation. 250,534; Dec. 11; Serial No. 267,325; published Sept. 4, 1929.
Mineral manufactures. Moler Products Limited. 250,526; Dec. 11; Serial No. 264,039; Dec. 11; published Sept. 4, 1928.
Refractories and refractory materials. R. L. Frink. 250,659; Dec. 11; Serial No. 258,740; published Sept. 18, 1928.
Roof coating, Plastic. Mineral-Lac Paint Co. 250,658; Dec. 11; Serial No. 265,299; published Sept. 4, 1928.
Roofing and building paper. Safepack Mills. 250,552; Dec. 11; Serial No. 263,427; published Aug. 21, 1928.
Roofing, composition shingles, etc., Composition roll. Flintkote Company. 250,528–9; Dec. 11; Serial Nos. 263,869–70; published Aug. 21, 1928.
Shingles. Flintkote Company. 250,643; Dec. 11; Serial No. 267,570; published Aug. 21, 1928.
Shingles and shakes, Wooden. Weyerhaeuser Forest Products. 250,590; Dec. 11; Serial No. 268,759; published Sept. 11, 1928.
Shingles, Composition roofing. Flintkote Company. 250,541; Dec. 11; Serial No. 266,858; published Aug. 21, 1928.
Shingles, Wooden. Coast Cedar Shingle Company. 250,648–9; Dec. 11; Serial Nos. 268,582–3; published Aug. 28, 1928.
Shingles, Wooden. Coast Cedar Shingle Company. 250,690; Dec. 11; Serial No. 268,584; published Aug. 28, 1928.
Steel reenforcing element. Duplex Steel Re-Enforcement Company. 250,689; Dec. 11; Serial No. 268,592; published Sept. 11, 1928.
Stone, Artificial building. V. Lachin. 250,646; Dec. 11; Serial No. 267,428; published Aug. 7, 1928.
Tiles, wall tiles, etc., Floor. Grueby Faience and Tile Company. 250,629; Dec. 11; Serial No. 268,093; published Aug. 28, 1928.
Tree-cavity filler. Lilly Tree Surgeons, Inc. 250,520; Dec. 11; Serial No. 264,727; published Aug. 21, 1928.
Tree-cavity filler. Lilly Tree Surgeons, Inc. 250,521; Dec. 11; Serial No. 264,726; published Aug. 28, 1928.
Tree-wound dressing. Davy Tree Expert Company. 250,527; Dec. 11; Serial No. 264,023; published Aug. 7, 1928.
Wall board, fiber board, plaster board, etc. Beaver Products Company. 250,399; Dec. 11; Serial No. 245,077; published Jan. 3, 1928.
Wall-finishing material. Paretex Company. 250,522; Dec. 11; Serial No. 264,695; published Sept. 11, 1928.
Waterproofing material. W. A. Collings. 250,677; Dec. 11; Serial No. 249,512; published Aug. 7, 1928.
Weather strips, screen doors, etc. Victor Parting Bead Co. 250,550; Dec. 11; Serial No. 265,864; published Sept. 18, 1928.

CLASS 13.

Bolts and screws. Buffalo Bolt Company. 73,356; renewed Apr. 13, 1929.
Casters, Steel. Bond Foundry and Machine Company. 250,408; Dec. 11; Serial No. 270,276; published Sept. 25, 1928.
Cord plugs for cleaning condenser tubes. Garlock Packing Company. 250,480; Dec. 11; Serial No. 270,837; published Oct. 2, 1928.
Enameled and sheet-metal wares. Lalance & Grosjean Mfg. Co. 250,639; Dec. 11; Serial No. 267,712; published Sept. 25, 1928.
Faucets. Mueller Co. 250,569; Dec. 11; Serial No. 261,274; published Oct. 2, 1928.
Handles for self-closing bibs and faucets. H. Mueller Manufacturing Company. 72,222; renewed Jan. 12, 1929.
Hangers, Metallic eaves. E. Tangard. 250,599; Dec. 11; Serial No. 270,060; published Sept. 25, 1928.
Ladles, tea strainers, napkin rings, plates, dishes, etc., Gravy. Dirigold Corporation. 250,418; Dec. 11; Serial No. 226,041; published Apr. 19, 1927.
Metal tubes, wire nails, wire staples, etc. Pittsburgh Steel Company. 250,716; Dec. 11.
Pipe joints, Metal. Rapp Company, Inc. 250,572; Dec. 11; Serial No. 260,849; published Sept. 25, 1928.
Pots, pans, kettles, etc., Aluminum. West Bend Aluminum Company. 250,672; Dec. 11; Serial No. 253,169; published Oct. 2, 1928.
Regulators, Fluid-pressure. Cleveland Faucet Co. 82,195; renewed Nov. 29, 1928.
Sprinklers, Lawn, orchard, garden, nursery, and golf-course. Thompson Manufacturing Company. 250,720; Dec. 11.
Strainers. Washburn Company. 250,596; Dec. 11; Serial No. 270,102; published Sept. 25, 1928.
Tubing, Metal. Wolverine Tube Company. 250,433; Dec. 11; Serial No. 269,705; published Sept. 25, 1928.
Valves, Back-water. Kennedy Valve Mfg. Co. 250,693; Dec. 11.
Valves, Cast-iron or steel. Steel Drum Accessories Corporation. 250,698–700; Dec. 11.
Wickets and grilles, Metal door. Ackerman Door Interviewer Corp. 250,501; Dec. 11; Serial No. 269,215; published Sept. 25, 1928.

CLASS 14.

Steel, Tool. Vulcan Crucible Steel Co. 250,715; Dec. 11.
Tin, Roofing. J. S. Hoy. 68,384; renewed Apr. 7, 1928.
Tin roofing. J. S. Hoy. 68,477–8; renewed Apr. 14, 1928.

CLASS 15.

Gasoline, kerosene, etc. Seneca Oil Works. 250,692; Dec. 11; Serial No. 253,552; published Sept. 25, 1928.

CLASS 16.

Calcimine. Muralo Company. 73,126; renewed Mar. 16, 1929.
Cleaner and automobile polishing solution, Automobile. G. I. Spear. 250,636; Dec. 11; Serial No. 267,870; published Oct. 2, 1928.
Decorating materials, Painters'. Beautext Company. 250,440; Dec. 11; Serial No. 269,505; published Sept. 25, 1928.
Enamel paint. Ernecke and Salmstein. 71,334; renewed Nov. 17, 1928.
Hydrocarbon solvents. Standard Oil Company of New Jersey. 250,562; Dec. 11; Serial No. 262,422; published Oct. 2, 1928.
Lacquers, lacquer enamels, varnishes, etc. Egyptian Lacquer Manufacturing Company. 250,478–9; Dec. 11; Serial Nos. 270,833–4; published Sept. 25, 1928.
Paint, Cold-water. Muralo Company. 72,377–8; renewed Jan. 19, 1929.
Paint remover. Jail Bird Paint Remover Co. 250,657; Dec. 11; Serial No. 268,376; published Sept. 25, 1928.
Paints, paint enamels, and varnishes, Ready-mixed. O. Fitzpatrick. 250,703; Dec. 11.
Paints, stains, and colors. A. Wilhelm Company. 71,571; renewed Dec. 1, 1928.
Painters' materials. A. Wilhelm Company. 71,365–6; renewed Nov. 24, 1928.

CLASS 17.

Cigars. De Nobili Cigar Company. 250,597–8; Dec. 11; Serial Nos. 270,076–6; published Oct. 2, 1928.
Cigars. L. F. Geraghty. 250,499; Dec. 11; Serial No. 269,285; published Sept. 25, 1928.
Cigars. George Schafer Cigar Company. 250,483; Dec. 11; Serial No. 270,882; published Sept. 25, 1928.

CLASS 19.

Automobiles and motor trucks, etc. Saint-Didier Automobiles. 250,638; Dec. 11; Serial No. 267,724; published Sept. 25, 1928.
Trailers, Camping. E. P. Gilkison & Sons Company. 250,445; Dec. 11; Serial No. 270,744; published Oct. 2, 1928.

CLASS 20.

Floor covering, Hard-surfaced. George W. Blabon Company. 250,476; Dec. 11; Serial No. 270,819; published Sept. 25, 1928.
Oilcloth and oilcloth table covers. Standard Textile Products Company. 250,605; Dec. 11; Serial No. 271,089; published Sept. 25, 1928.

CLASS 21.

Electrical supplies. F. Bissell Company. 73,134; renewed Mar. 16, 1929.
Electromagnets. Acme Wire Company. 73,129; renewed Mar. 16, 1929.
Insulated electrical conductors. Acme Wire Company. 72,677–9; renewed Feb. 9, 1929.
Testing device for electric wiring systems. S. B. Berkowich. 250,711; Dec. 11.

CLASS 22.

Bait, Animal. Minner & Co. 250,710; Dec. 11.
Bait, Artificial. M. B. Roberts. 250,464; Dec. 11; Serial No. 270,508; published Sept. 18, 1928.
Dolls. Ideal Novelty & Toy Co. 250,428; Dec. 11; Serial No. 269,787; published Sept. 18, 1928.
Fishing tackle. Clark-Horrocks Co. 73,255–7; renewed Apr. 6, 1929.
Games, Board. A. Master. 250,686; Dec. 11; Serial No. 269,905; published Sept. 25, 1928.
Games, Board. A. Master. 250,687; Dec. 11; Serial No. 269,904; published Oct. 2, 1928.
Golf bags. Oshkosh Trunk Company. 250,566; Dec. 11; Serial No. 261,585; published Sept. 25, 1928.
Tennis rackets, tennis balls, and tennis nets. The Fair. 73,135; renewed Mar. 16, 1929.
Toy aeroplanes, Foldable. A. Bissiri. 250,680; Dec. 11; Serial No. 270,006; published Sept. 18, 1928.
Toys, Structural. G. B. Lewis Company. 250,410; Dec. 11; Serial No. 270,252; published Oct. 2, 1928.

CLASS 23.

Bearings and parts thereof, Roller. Railway Motors Corporation. 250,458; Dec. 11; Serial No. 270,558; published Oct. 2, 1928.
Cleaners for internal-combustion engines, Air. Donaldson Company. 250,485–7; Dec. 11; Serial No. 270,917–19; published Sept. 25, 1928.
Clippers, Hedge. American Implement Company. 250,442; Dec. 11; Serial No. 270,762; published Sept. 25, 1928.

Drills and rotary drilling bits, Core. Elliott Core Drilling Company. 250,564; Dec. 11; Serial No. 262,071; published Sept. 25, 1928.
Engines and parts thereof, Internal-combustion. Aeronautical Products Corporation. 250,446; Dec. 11; Serial No. 270,734; published Sept. 25, 1928.
Fire-extinguisher apparatus, Portable hand. R. W. McMullen. 250,400; Dec. 11; Serial No. 233,211; published Nov. 15, 1927.
Fire-extinguishing apparatus, Portable hand. International Fire Equipment Corporation. 250,444; Dec. 11; Serial No. 270,746; published Sept. 25, 1928.
Harvester, thresher, and separator, Combined. Gleaner Combine Harvester Corporation. 250,631; Dec. 11; Serial No. 268,036; published Sept. 25, 1928.
Machinery, Excavating, elevating, and conveying. Jeffrey Manufacturing Company. 250,411; Dec. 11; Serial No. 270,247; published Oct. 2, 1928.
Pins, Fan-pulley. Hays-Fischer Manufacturing Company. 250,664; Dec. 11; Serial No. 257,411; published Sept. 25, 1928.
Pumps and pump parts. Ranchers' Manufacturing Company. 250,685; Dec. 11; Serial No. 269,915; published Sept. 25, 1928.
Rakes, hoes, shovels, etc. A. Roesch. 250,512; Dec. 11; Serial No. 269,037; published Sept. 25, 1928.
Razor blades. Rey Safety Razor Corporation. 250,602; Dec. 11; Serial No. 271,147; published Oct. 2, 1928.
Razors, shears, scissors, etc. C. S. Bresnick. 250,452; Dec. 11; Serial No. 270,689; published Sept. 25, 1928.
Ring travelers. U. S. Ring Traveler Company. 250,571; Dec. 11; Serial No. 261,154; published Sept. 25, 1928.
Saws, etc., All kinds of. E. C. Atkins & Company. 250,666; Dec. 11; Serial No. 256,601; published Jan. 24, 1928.
Slicers, Cheese. Glahnsohn Manufacturing Company. 250,420; Dec. 11; Serial No. 270,407; published Sept. 25, 1928.
Spoons, knives, forks, etc. Dirigold Corporation. 250,390; Dec. 11; Serial No. 192,965; published Oct. 2, 1928.
Tank and nonmeasuring pump, Combined lubricant. Bennett Pumps Corporation. 250,675; Dec. 11; Serial No. 251,163; published Sept. 20, 1927.
Tools for removing rims from automobile tires. J. Otti. 250,706; Dec. 11.

CLASS 24.

Cylinders for clothes-washing machines and extractors, Cast-metal. Asher Manufacturing Company. 250,425; Dec. 11; Serial No. 269,819; published Sept. 25, 1928.
Ironing machines. American Laundry Machinery Company. 250,500; Dec. 11; Serial No. 269,272; published Sept. 25, 1928.
Pressing machines, Steam clothes-. United States Hoffman Company. 72,889; renewed Mar. 2, 1929.

CLASS 25.

Bank, Portable home savings. C. L. Gmeinder, jr. 250,417; Dec. 11; Serial No. 230,392; published Oct. 2, 1928.

CLASS 26.

Gauge, Hem. R. Morris. 250,436; Dec. 11; Serial No. 269,621; published Oct. 2, 1928.
Television and like processes, Apparatus for recording and reproducing views, scenes, or images by. Baird Television Development Company. 250,553–4; Dec. 11; Serial Nos. 263,194–5; published Sept. 25, 1928.

CLASS 27.

Watches and clocks and parts of them. La Vallette Watch Co. 250,705; Dec. 11.

CLASS 28.

Knives, forks, and spoons, trays, baskets, etc. Silverware Wholesalers Association, Inc. 250,709; Dec. 11.

CLASS 29.

Brush, Shaving. J. W. Lysons. 250,592; Dec. 11; Serial No. 270,132; published Oct. 2, 1928.
Brushes, Paint and varnish. R. Young. 250,437; Dec. 11; Serial No. 269,563; published Oct. 2, 1928.
Mops, Dust and polish. Midway Chemical Company. 250,427; Dec. 11; Serial No. 269,795; published Sept. 25, 1928.
Powder puffs. C. Franck. 250,489; Dec. 11; Serial No. 270,924; published Sept. 25, 1928.

CLASS 30.

Chinaware. R. H. Macy & Co. 250,407; Dec. 11; Serial No. 270,299; published Sept. 25, 1928.

CLASS 32.

Closets, buffets, serving tables, etc., China. M. Goldberg. 250,402; Dec. 11; Serial No. 230,789; published Oct. 2, 1928.
Furniture. Wm. Cameron & Co. 250,676; Dec. 11. Serial No. 249,836; published Sept. 25, 1928.
Mattresses. Superior Felt & Bedding Co. 250,601; Dec. 11; Serial No. 271,151; published Oct. 2, 1928.
Metal and sheet-metal articles. I. Ginsberg. 250,594; Dec. 11; Serial No. 270,123; published Sept. 25, 1928.
Metal novelties. Seville Studios, Incorporated. 250,454; Dec. 11; Serial No. 270,652; published Sept. 25, 1928.
Shelving for stoves. L. E. Larche. 250,603; Dec. 11; Serial No. 271,131; published Sept. 25, 1928.
Tables, settees, beds, etc., Trestle. N. A. Eddy. 250,670; Dec. 11; Serial No. 255,552; published Sept. 25, 1928.

CLASS 33.

Glass. W. P. Fuller & Co. 250,662; Dec. 11; Serial No. 257,977; published Sept. 25, 1928.
Glass. W. P. Fuller & Co. 250,669; Dec. 11; Serial No. 256,111; published Sept. 25, 1928.

CLASS 34.

Furnaces. Meyer Furnace Company. 250,455; Dec. 11; Serial No. 270,641; published Oct. 2, 1928.
Heaters, radiators, etc., Unit air. Young Radiator Co. 250,695; Dec. 11.
Novelties, Decorative. Japanese Fan Company. 250,549; Dec. 11; Serial No. 266,250; published Oct. 2, 1928.
Pot, pan, and kettle holders. Stamford Foundry Company. 250,493; Dec. 11; Serial No. 269,490; published Oct. 2, 1928.
Stoves. F. A. Klaine. 71,869; renewed Dec. 15, 1928.
Stoves, Baking. F. Aeschbach S. A. 250,538; Dec. 11; Serial No. 267,106; published Sept. 25, 1928.
Stoves, furnaces, and ranges and all parts thereof. Detroit Stove Works. 70,366; renewed Aug. 25, 1928.
Temperature of the air in the casing of a warm-air furnace, Device to limit the. Minneapolis-Honeywell Regulator Company. 250,607; Dec. 11; Serial No. 267,376; published Sept. 25, 1928.

CLASS 35.

Belting of rubber and fabric. Continental Supply Company. 250,707; Dec. 11.
Belting, pump cups, valves, and washers, Leather. L. P. Degen Belting Company. 73,553; renewed Apr. 27, 1929.
Tire-tube patches. H. B. Egan. 250,441; Dec. 11; Serial No. 270,766; published Oct. 2, 1928.
Tires, Pneumatic. India Tire and Rubber Company. 250,661; Dec. 11; Serial No. 258,126; published Sept. 25, 1928.

CLASS 36.

Strings for musical instruments. M. E. Schoening. 69,918; renewed July 14, 1928.
Strings for musical instruments. M. E. Schoening. 71,561; renewed Dec. 1, 1928.

CLASS 37.

Copyholders for typewriters. Lineatime Manufacturing Company Incorporated. 250,573; Dec. 11; Serial No. 260,393; published Sept. 18, 1928.
Envelopes. Stanislaw Flis and Mateusz Kasprzak. 250,556; Dec. 11; Serial No. 263,052; published Sept. 18, 1928.
Pads, combined loose-leaf desk pad and calendar holder, and fillers for same, Memorandum. H. E. Seaton. 250,504; Dec. 11; Serial No. 269,155; published Sept. 18, 1928.
Paper and paper products. Associated Paper Company. 250,546; Dec. 11; Serial No. 266,639; published Sept. 18, 1928.
Paper, Decorative tissue. Japan Paper Company. 250,547; Dec. 11; Serial No. 266,429; published Sept. 18, 1928.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 250,652; Dec. 11; Serial No. 268,525; published Sept. 18, 1928.
Paper, Toilet. Capital Paper Company. 250,544; Dec. 11; Serial No. 266,713; published Sept. 18, 1928.
Paper, Wrapping. Capital Paper Company. 250,535; Dec. 11; Serial No. 267,238; published Sept. 18, 1928.
Paper wrappings for packages. L. A. Liebs Company. 250,721; Dec. 11.
Papers, coated box papers, etc., Coated book. Hazen Paper Co. 250,490; Dec. 11; Serial No. 270,932; published Sept. 18, 1928.
Stationery forms. W. T. Manning. 250,719; Dec. 11.
Wrappings, Bridge-prize. Charles S. Clark Co. 250,468; Dec. 11; Serial No. 270,463; published Sept. 18, 1928.

CLASS 38.

Magazine. M. W. Ark. 250,409; Dec. 11; Serial No. 270,274; published Sept. 18, 1928.
Magazine, Monthly. Aesthete, Inc. 250,469; Dec. 11; Serial No. 270,452; published Sept. 18, 1928.
Magazine, Weekly. Red Star News Company. 250,641; Dec. 11; Serial No. 267,668. published Sept. 18, 1928.
Magazines and other periodical publications. Popular Dogs Publishing Company. 250,570; Dec. 11; Serial No. 261,207; published Aug. 21, 1928.
Newspaper column. John Wanamaker New York. 250,674; Dec. 11; Serial No. 251,251; published Sept. 18, 1928.
Periodical. American Medical Publishing Company. 250,405; Dec. 11; Serial No. 270,312; published Sept. 18, 1928.
Periodical. A. N. Palmer Company. 250,448–9; Dec. 11; Serial Nos. 270,715–16; published Sept. 18, 1928.
Periodical published monthly. International Journal of Surgery Co. 250,384; Dec. 11; Serial No. 270,336; published Sept. 18, 1928.
Pictures, Series of. G. Storm. 250,704; Dec. 11.
Publication. B. Nugent & Brother Dry Goods Company. 250,568; Dec. 11; Serial No. 261,377; published Sept. 18, 1928.
Publication, Monthly. Association of Newspaper Classified Advertising Managers. 250,509; Dec. 11; Serial No. 269,509; Dec. 11; Serial No. 269,076; published Sept. 18, 1928.
Publication, Periodical. Dickens Fellowship of New York Inc. 250,412; Dec. 11; Serial No. 270,289; published Sept. 18, 1928.



Publication, Periodical. New York Zoological Society. 250,451; Dec. 11; Serial No. 270,713; published Sept. 18, 1928.
Publications issued approximately quarterly, Periodical. National Used Car Market Report, Inc. 250,419. Dec. 11; Serial No. 270,437; published Sept 18, 1928.
Subtitle to newspaper articles which appear daily. R. H. Macy & Co. 250,401; Dec. 11; Serial No. 231,389; published Sept. 18, 1928.

CLASS 39.

Clothing. Hibben, Hollweg & Company. 72,279; renewed Jan. 12, 1929.
Gloves, Cloth, leather, and silk. Blachner-Moses Co. 72,996; renewed Mar. 9, 1929.
Hosiery. Joel Baily Davis Co. 73,087; renewed Mar. 16, 1929.
Overcoats, coats, vests, and trousers. Block Bros. Clothing Co. 73,410; renewed Apr. 20, 1929.
Underwear, undershirts, drawers. A. Lubasch & Sons, Inc. 250,665; Dec. 11; Serial No. 256,949; published Sept. 4, 1928.
Union suits, undershirts, and underdrawers. Nazareth Waist Co. 71,532; renewed Dec. 1, 1928.

CLASS 40.

Braids, tapes, bindings, and trimmings. Sanford Narrow Fabric Co. 70,632; renewed Sept. 15, 1928.
Tapes and bindings. Krout & Fite Manufacturing Company. 73,108–9; renewed Mar. 16, 1929.

CLASS 42.

Cotton cloth piece goods. Southern Manufacturing Company. 250,608; Dec. 11; Serial No. 268,708; published Sept. 25, 1928.
Cotton cloth, Sudan. W. W. Hobbs. 250,640; Dec. 11; Serial No. 267,709; published Sept. 25, 1928.
Cotton duck in the piece. Brazos Valley Cotton Mills. 250,708; Dec. 11.
Cotton goods woven in colors. Amoskeag Manufacturing Company. 73,420; renewed Apr. 20, 1929.
Cotton piece goods. Tootle-Campbell Dry Goods Company. 250,475; Dec. 11; Serial No. 270,810; published Oct. 2, 1928.
Fabrics in the piece. Celanese Corporation of America. 250,584; Dec. 11; Serial No. 271,376; published Sept. 25, 1928.
Fabrics in the piece. Cheney Brothers. 250,622; Dec. 11; Serial No. 271,166; published Sept. 25, 1928.
Fabrics in the piece. Cheney Brothers. 250,630; Dec. 11; Serial No. 268,079; published Sept. 25, 1928.
Fabrics, Knitted. Twentieth Century Rayon Textiles, Inc. 250,484; Dec. 11; Serial No. 270,897; published Sept. 25, 1928.
Gingham. Amoskeag Manufacturing Company. 72,859; renewed Mar. 2, 1929.
Goods, Dry. B. Altman & Co. 250,429; Dec. 11; Serial No. 269,758; published Sept. 25, 1928.
Goods in the piece. Weiss, Willh im Company. 250,609–15; Dec. 11; Serial Nos. 268,659–65; published Sept. 25, 1928.
Goods, Piece. Roth, Goldman Co. 250,387; Dec. 11; Serial No. 271,087; published Sept. 25, 1928.
Goods, Piece. Weiss, Willheim Company. 250,684; Dec. 11; Serial No. 269,925; published Sept. 25, 1928.
Linen piece goods. Old Bleach Linen Company. 72,621; renewed Feb. 9, 1929.
Nets, slumber nets, and sport nets, Hair. S. Glemby's Sons Co. 250,403; Dec. 11; Serial No. 270,333; published Sept. 25, 1928.
Nets, slumber nets, and sport nets, Hair. S. Glemby's Sons Co. 250,404; Dec. 11; Serial No. 270,331; published Sept. 25, 1928.
Serge, Uniform. Lesher, Whitman & Co. 250,498; Dec. 11; Serial No. 269,357; published Sept. 25, 1928.
Silk, cotton, etc., piece goods. Haas Brothers Fabrics Corporation. 250,617; Dec. 11; Serial No. 271,248; published Sept. 25, 1928.
Silk fabrics in the piece. Onondaga Silk Co. 250,682; Dec. 11; Serial No. 269,979; published Sept. 25, 1928.
Silk piece goods, silk and wool and silk and rayon mixed piece goods. H. R. Mallinson & Co. Inc. 250,524; Dec. 11; Serial No. 264,434; published Sept. 25, 1928.
Wool piece goods. United States Knitting Co. Inc. 250,459; Dec. 11; Serial No. 270,525; published Oct. 2, 1928.
Woolen piece goods. Worumbo Manufacturing Company. 250,660; Dec. 11; Serial No. 258,610; published Sept. 25, 1928.
Woolen goods. S. Stein & Co. 250,702; Dec. 11.

CLASS 43.

Yarn. Hibben, Hollweg & Company. 72,768; renewed Feb. 16, 1929.
Yarns, threads, and filaments, Cellulose-acetate. Du Pont Rayon Company. 250,477; Dec. 11; Serial No. 270,831; published Sept. 25, 1928.
Yarns, threads, and filaments, Cellulose-acetate. Du Pont Rayon Company. 250,488; Dec. 11; Serial No. 270,920; published Sept. 25, 1928.

CLASS 44.

Arch supports. Scholl Mfg. Co. Inc. 250,523; Dec. 11; Serial No. 264,536; published Sept. 25, 1928.
Bandages, Finger. B. A. Paroubek. 250,422; Dec. 11; Serial No. 269,854; published Sept. 25, 1928.
Bandages, Plaster. Lüscher & Bömper A.-G. 250,633; Dec. 11; Serial No. 267,979; published Sept. 25, 1928.
Oxygen-dispensing equipment for vaults, safes, and the like. Oxweld Acetylene Company. 250,473; Dec. 11; Serial No. 270,800; published Sept. 25, 1928.
Pads for therapeutic uses, Electrically-heated. Varick Electric Manufacturing Co. 250,416; Dec. 11; Serial No. 270,155; published Sept. 18, 1928.
Plastic material for making artificial dentures. G. F. Ells. 250,595; Dec. 11; Serial No. 270,120; published Sept. 25, 1928.
Rubber sundries, Druggists'. Seiberling Latex Products Company. 250,460; Dec. 11; Serial No. 270,517; published Sept. 25, 1928.
Rubber sundries, Druggists'. Seiberling Latex Products Company. 250,461–2; Dec. 11; Serial Nos. 270,513–14; published Sept. 25, 1928.
Rubber sundries, Druggists'. Seiberling Latex Products Company. 250,470–1; Dec. 11; Serial Nos. 270,443–44; published Sept. 25, 1928.

CLASS 45.

Beverage and a concentrate for making the same. J. S. Polefsky. 250,536; Dec. 11; Serial No. 267,210; published Oct. 2, 1928.
Beverages and syrups for making the same. F. Schroeder. 250,724; Dec. 11.
Beverages, syrups and compounds for making the same. I. A. Stein. 250,491; Dec. 11; Serial No. 270,981; published Sept. 25, 1928.
Ginger ale. Premier Beverage Company. 250,457; Dec. 11; Serial No. 270,604; published Oct. 2, 1928.
Ginger ale. Safeway Stores, Inc. 250,585; Dec. 11; Serial No. 271,362; published Oct. 2, 1928.
Ginger ale. Try-Me Bottling Company of Washington, D. C. 250,688; Dec. 11; Serial No. 269,872; published Sept. 25, 1928.

CLASS 46.

Apples, grapes, plums, etc., Fresh. Sgobel & Day, Inc. 250,453; Dec. 11; Serial No. 270,653; published Sept. 25, 1928.
Candies. Plymouth Rock Candy Company. 250,555; Dec. 11; Serial No. 263,099; published Sept. 25, 1928.
Candy. Curtiss Candy Co. 250,671; Dec. 11; Serial No. 258,693; published Oct. 2, 1928.
Candy. Oxford Candy Corporation. 250,514; Dec. 11; Serial No. 265,398; published Sept. 25, 1928.
Canned beef. North American Mercantile Company. 250,582; Dec. 11; Serial No. 269,741; published Oct. 2, 1928.
Canned corn. Milford Canning Company. 250,591; Dec. 11; Serial No. 270,136; published Sept. 25, 1928.
Canned fish. F. H. Fromm. 250,574; Dec. 11; Serial No. 260,328; published Oct. 2, 1928.
Canned fruits. Washington Canners Co-Operative. 250,492; Dec. 11; Serial No. 270,983; published Sept. 25, 1928.
Canned fruits and vegetables. Luce Packing Company. 250,645; Dec. 11; Serial No. 267,431; published Oct. 2, 1928.
Canned fruits, canned vegetables, etc. California Co-Operative Producers. 250,606; Dec. 11; Serial No. 271,337; published Oct. 2, 1928.
Canned salmon. Theo. H. Davies & Co. Ltd. 73,459; renewed Apr. 20, 1929.
Canned salmon. Theo. H. Davies & Co. Ltd. 73,461; renewed Apr. 20, 1929.
Canned salmon and canned oysters. A. Booth & Company. 72,778; renewed Feb. 23, 1929.
Canned vegetables. Harris & Filler Co. 250,583; Dec. 11; Serial No. 271,385; published Oct. 2, 1928.
Canned vegetables. Pacific Trading Co. 250,431; Dec. 11; Serial No. 269,742; published Oct. 2, 1928.
Canned vegetables and fruits. Roth Bros. 250,474; Dec. 11; Serial No. 270,802; published Sept. 25, 1928.
Chilli and vegetable sauces, Peeled green. Royal Packing Co. 71,536; renewed Dec. 1, 1928.
Chocolate and cocoa and chocolate coating. Guittard Chocolate Co. 250,673; Dec. 11; Serial No. 251,832; published Sept. 25, 1928.
Coffee. Fort Smith Coffee Company. 72,453; renewed Jan. 26, 1929.
Coffee. C. D. Kenny Co. 250,582; Dec. 11; Serial No. 271,441; published Oct. 2, 1928.
Coffee, Condensed. New York Condensed Milk Company. 32,689; renewed Mar. 28, 1929.
Coffee, tea, and cocoa. Old Dutch Mills, Inc. 250,558; Dec. 11; Serial No. 262,764; published Oct. 2, 1928.
Confection comprising a candy food bar. W. D. Trusas. 250,625; Dec. 11; Serial No. 271,325; published Oct. 2, 1928.
Confectionery. W. F. Schrafft & Sons Corporation. 250,567; Dec. 11; Serial No. 261,526; published Apr. 24, 1928.
Dates. African & Eastern Trading Co. Incorporated. 250,381; Dec. 11; Serial No. 270,364; published Sept. 25, 1928.
Dessert and pudding powder. Guntrath-Lorenzen Co. 250,683; Dec. 11; Serial No. 269,956; published Sept. 18, 1928.
Flour and cornmeal, Wheat. Allen & Wheeler Co. 72,780; renewed Feb. 23, 1929.
Flour, eggs, and rolled oats, Wheat. American Stores Company. 250,385; Dec. 11; Serial No. 220,828; published Oct. 19, 1926.
Flour, Wheat. Gopher State Milling Company. 71,810; renewed Dec. 15, 1928.

Foods. National Grocer Company. 73,372; renewed Apr. 13, 1929.
Foods. Strohmeyer & Arpe Co. 73,285; renewed Apr. 6, 1929.
Foods. Strohmeyer & Arpe Co. 73,385; renewed Apr. 13, 1929.
Fruits and fresh blackberries. Fresh, canned, and frozen. R. D. Bodle Co. 250,634–5; Dec. 11; Serial Nos. 267,926–7; published Oct. 2, 1928.
Fruits, Fresh. Gulf Vegetable & Fruit Company. 250,439; Dec. 11; Serial No. 269,523; published Sept. 25, 1928.
Fruits, Fresh citrus. Arizona Citrus Growers. 250,623–4; Dec. 11; Serial Nos. 271,330–1; published Oct. 2, 1928.
Fruits, Fresh citrus. Carpinteria Mutual Citrus Association. 250,578; Dec. 11; Serial No. 271,534; published Oct. 2, 1928.
Fruits, Fresh citrus. Standard Growers Exchange. 250,656; Dec. 11; Serial No. 268,402; published Sept. 25, 1928.
Fruits, Fresh deciduous. Kings River Fruit Association. 250,560; Dec. 11; Serial No. 262,716; published Sept. 25, 1928.
Grapes, Fresh. Dougherty Grape Growers Association. 250,668; Dec. 11; Serial No. 256,456; published Oct. 2, 1928.
Grapes, Fresh. C. F. Tubbs. 250,681; Dec. 11; Serial No. 269,999; published Sept. 25, 1928.
Ham and bacon. J. T. McMillan Co. 250,389; Dec. 11; Serial No. 264,620; published Oct. 2, 1928.
Ham, sugar-cured calas, etc., Boneless boiled. Pittsburgh Provision and Packing Company. 250,388; Dec. 11; Serial No. 210,316; published Oct. 2, 1928.
Marshmallow bars. Chocolate-covered. Metro Chocolate Co. Inc. 250,712; Dec. 11.
Milk, Condensed. Borden's Condensed Milk Company. 72,214; renewed Jan. 12, 1929.
Milk, Evaporated. Helvetia Milk Condensing Company. 72,101; renewed Jan. 5, 1929.
Molasses. Penick & Ford, Ltd. 250,465; Dec. 11; Serial No. 270,500; published Sept. 18, 1928.
Nuts. Goody Nut Shops. 250,575; Dec. 11; Serial No. 260,009; published Sept. 25, 1928.
Nuts, Package. W. Schumann. 250,463; Dec. 11; Serial No. 270,511; published Oct. 2, 1928.
Nuts, Salted. Purity Candy Company. 250,618; Dec. 11; Serial No. 271,196; published Sept. 25, 1928.
Olive oil. I. Nuccio. 250,423; Dec. 11; Serial No. 269,851; published Sept. 18, 1928.
Peanuts, Salted. Lummis & Company. 250,482; Dec. 11; Serial No. 270,880; published Sept. 25, 1928.
Pig's foot tasties, sliced beef, Vienna sausage, etc., Pickled. Silz Packing Company. 250,530; Dec. 11; Serial No. 263,333; published Sept. 25, 1928.
Pop corn. Le-Mul Mfg. Co. 250,559; Dec. 11; Serial No. 262,719; published Oct. 2, 1928.
Potatoes, Fresh. Benson-Le Fort Co. 250,588; Dec. 11; Serial No. 268,840; published Oct. 2, 1928.
Prunes, Dried. Independent Growers Packing Company. 250,620; Dec. 11; Serial No. 271,304; published Oct. 2, 1928.
Sorghum, molasses, and syrup. Bliss Syrup Refining Co. 73,172; renewed Mar. 23, 1929.
Syrup, Malt. Pabst Corporation. 250,494; Dec. 11; Serial No. 269,480; published Sept. 18, 1928.
Vegetables and fruits, Fresh. N. Nojiri. 250,450; Dec. 11; Serial No. 270,714; published Oct. 2, 1928.

CLASS 49.

Alcohol, Pure ethyl. Publicker Commercial Alcohol Co. of Delaware. 250,586; Dec. 11; Serial No. 268,037; published Sept. 25, 1928.

CLASS 50.

Sheeting and holding straps, Rubber. H. L. Kaufmann. 250,713; Dec. 11.

## ALPHABETICAL LIST OF LABELS.

Al. Littlebear's 'Wigwam' Indian Herb Tonic. For a Combination of Herbs as a Medicine. A. Littlebear. 35,074; Dec. 11.
Al. Littlebear's 'Wigwam' Indian Oil. For Combination of Oils, Gums, and Herbs. A. Littlebear. 35,075. Dec. 11.
All Nations. For Baseball Uniforms. P. Mootz. 35,080; Dec. 11.
Arcturus A-C Amplifier Type 48. For Radiotubes. Arcturus Radio Company. 35,055; Dec. 11.
Arcturus A-C Amplifier Type 126. For Radiotubes. Arcturus Radio Company. 35,052; Dec. 11.
Arcturus A-C Amplifier Type 120h. For Radiotubes. Arcturus Radio Company. 35,053; Dec. 11.
Arcturus A-C Detector Type 127. For Radiotubes. Arcturus Radio Company. 35,054; Dec. 11.
Arcturus A-C Full Wave Rectifier Type 180. For Radiotubes. Arcturus Radio Company. 35,057; Dec. 11.
Arcturus A-C Power Amplifier Type 071h. For Radiotubes. Arcturus Radio Company. 35,051; Dec. 11.
Arcturus A-C Power Amplifier Type 40. For Radiotubes. Arcturus Radio Company. 35,056; Dec. 11.
Arwell Klorogas. For Household Deodorant and Insecticide. Arwell Products Company. 35,058; Dec. 11.
Bettina's. For Confectionery. E. Beye. 35,059; Dec. 11.
Blue-Bill. For Canned Salmon. Point Adams Packing Co. 35,086; Dec. 11.
Blue Flag. For Fresh Deciduous Fruits. Earl Fruit Company. 35,063; Dec. 11.
Cachew Nut. For Cashew Nuts. S. Cohn. 35,061; Dec. 11.
Cape Cod Cookie. For Cookies. Johnson Educator Food Co. 35,069; Dec. 11.
Cape Cod Cookies. For Cookies. Johnson Educator Food Co. 35,068; Dec. 11.
Deutscher Club Pale Dry Ginger Ale. For Ginger Ale. Independent Milwaukee Brewery. 35,065–6; Dec. 11.
Foot Saver Shoes. For Footwear. Julian & Kokenge Company. 35,070; Dec. 11.
For You. For Candy. Reichardt Cocoa & Chocolate Co. 35,088; Dec. 11.
Ginger-Bubbles. For Ginger Ale. A. C. Dittrich. 35,062; Dec. 11.
Golden Bear Comb Honey. For Honey. Mountain States Honey Producers Association. 35,081; Dec. 11.
Golden Bear Honey. For Honey. Mountain States Honey Producers Association. 35,082; Dec. 11.
Grandma's Honey Cocoanut Macaroons. For Macaroons. Lantz Bros. Baking Co. 35,073; Dec. 11.
Grandma's Oatmeal Cookies. For Oatmeal Cookies. Lantz Bros. Baking Co. 35,072; Dec. 11.
Han-Dee Bread. For Bread. Papendick Bakery Co. 35,084; Dec. 11.
Have You It? For a Card Game. Selchow and Righter Co. 35,090; Dec. 11.
Honors. For Bridge Scorer. Magnetik Novelty Corp. 35,076; Dec. 11.
It. For Confection Bar. Regal Confections Company. 35,087; Dec. 11.
Jewel Mountain Blend Coffee. For Coffee. Jewel Tea Co. 35,067; Dec. 11.
Lady Lane Arch-Supporting Shoes. For Shoes. Lane Bryant, Inc. 35,060; Dec. 11.
Mystic Rub. For Liniment. Mystic Pharmacal Co. 35,083; Dec. 11.
Nu-A-Gain. For Liquid Polish for Varnish and Lacquered Surfaces. C. W. Fleming and Co. 35,064; Dec. 11.
Pack O-Bulk. For Rice. Lake Charles Rice Milling Company of Louisiana, Inc. 35,071; Dec. 11.
Pico Brand Barley Malt Syrup. For Barley Malt Syrup. Pilzner Importing Co. 35,085; Dec. 11.
Reiter Oil, for Cooking, for Salads, for Frying. For Salad Oil. B. Reiter. 35,089; Dec. 11.
The Reputation Behind This Tag Is the Grocer's Real Safeguard. For Potatoes. Albert Miller & Company. 35,077; Dec. 11.
This Tag Identifies Bill Spud Brand Seed. For Potatoes. Albert Miller & Company. 35,078; Dec. 11.
To The Retailer. For Potatoes. Albert Miller & Company. 35,079; Dec. 11.

## ALPHABETICAL LIST OF PRINTS.

Columbia Clay Co. For Sewer Pipe, Wall Coping, Flue Lining, Flue Pipe, Chimney Tops, Fire Brick, Fire Clay, Hollow Building Tile, and Draintile. Columbia Clay Company. 11,371; Dec. 11.
Cream of the South. For Ice Cream. Southern Dairies, Inc. 11,379; Dec. 11.
Daggett's Chocolates 'Always.' For Chocolates. Daggett Chocolate Co. 11,372; Dec. 11.
Don't be a Trillium. For Mouth Wash. Forhan Company. 11,375; Dec. 11.
Forhan's Antiseptic Refreshant. For Mouth Wash. Forhan Company. 11,374; Dec. 11.
Northern Hemlock. For Hemlock Lumber. Northern Hemlock Mfrs. of Michigan and Wisconsin. 11,378; Dec. 11.
The New International Metered Mailing Machine. For Machines Used in Sealing, Postmarking, and Countering or Metering Mail, and Parts Therefor. International Postal Supply Co. 11,377; Dec. 11.
Welch Concord Harvest Bulletin Number Two. For Grape Juice. Welch Grape Juice Company. 11,380; Dec. 11.
We Use Rich Cream, Too. For Cream of Tomato Soup. H. J. Heinz Company. 11,376; Dec. 11.
Why Forhan's. For Tooth Paste. Forhan Company. 11,373. Dec. 11.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

A C Spark Plug Company. (See Kamrath, Herbert G., assignor.)
A C Spark Plug Company. (See Nutt, Frank N., assignor.)
A C Spark Plug Company. (See Spencer, L. M., and Zubaty, assignors.)
A C Spark Plug Company. (See Zubaty, Joseph, assignor.)
Accurate Gasoline Recording Company. (See Mason, A. R., and Failing, assignors.)
Ackerman, Peter, Washington County, assignor of one-half to J. A. Susbauer, Portland, Oreg. Electric cooker. 1,694,762; Dec. 11.
Acme Steel Company. (See MacChesney, C. M., and Norton, assignors.)
Adams, Charles A., assignor to Optical Industries Corporation, Davenport, Iowa. Restraining device for lens-grinding machines. 1,694,728; Dec. 11.
Adams Industries, Inc. (See Jacques, Raynaldo P., assignor.)
Adams, Zenas P., assignor to D. H. Burrell & Co., Inc., Little Falls, N. Y. Pump. 1,694,575; Dec. 11.
Aeschbach, Friedrich, Aarau, Switzerland. Dough kneading and mixing machine. 1,695,221; Dec. 11.
Agfa Ansco Corporation. (See Slocum, Benjamin A., assignor.)
Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Auxiliary switch. 1,694,611; Dec. 11.
Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Contact structure for electric switches. 1,694,612; Dec. 11.
Ainsworth, Chester D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Motor-control switch. 1,694,613; Dec. 11.
Ajax Electrothermic Corporation. (See Northrup, Edwin F., assignor.)
Albert, George G., Bangor, Pa. Blackboard hanger. 1,694,433; Dec. 11.
Albino, Luigi, Brooklyn, N. Y. Lamp shade. Des. 77,144; Dec. 11.
Albright, Andrew, 3d, Maplewood, N. J. Shaving brush. 1,694,304; Dec. 11.
Albright, Andrew, 3d, Maplewood, N. J. Shaving brush. 1,694,305; Dec. 11.
Alcorn Combustion Company. (See Nash, A. E., and Alcorn, assignors.)
Alcorn, James S. (See Nash, A. E., and Alcorn.)
Alemite Manufacturing Corporation. (See Piquerez, Emile, assignor.)
Alemite Manufacturing Corporation. (See Roberts, Henry T., assignor.)
Alleman, Gellert, Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Fatty acid and soaps derived from mineral oil and making same. 1,694,461; Dec. 11.
Alleman, Gellert, Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Mineral-oil derivatives and making same. 1,694,462; Dec. 11.
Alleman, Gellert, Swarthmore, assignor to Sun Oil Company, Philadelphia, Pa. Mineral-oil derivative and making same. 1,694,463; Dec. 11.
Allen, Arthur H., Philadelphia, Pa. Combination sanitary refrigerator and waste-disposal apparatus. 1,695,133; Dec. 11.
Allen, Charles H., assignor to Yates Lumber Company, Penn Yan, N. Y. Mechanism for attaching wire handles to baskets. 1,694,901; Dec. 11.
Allen, Frank B., Lower Merion Township, Montgomery County, Pa., assignor, by mesne assignments, to F. H. Dunbar, Cleveland, Ohio. Sluiceway nozzle. 1,694,635; Dec. 11.
Allen, Harrison L., assignor to Canadian Sturdy Chain Company Limited, Sherbrooke, Quebec, Canada. Vanity case. 1,694,727; Dec. 11.
Allen, W. F., et al. (See Smoot, Samuel K., assignor.)
Aluminum Company of America. (See Norton, Allen B., assignor.)
Ament, Lucy C., New York, N. Y. Atomizer. 1,694,959; Dec. 11.
American Brass Company. (See Bassett, William H., assignor.)
American Brass Company, The. (See Kinnear, Delamar C., assignor.)
American Can Company. (See Edwards, John R., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Creosoting Company. (See Grady, William H., assignor.)
American Cyanamid Company. (See Barsky, G., and Freise, assignors.)
American Fork & Hoe Company, The. (See Keough, Robert E., assignor.)
American Heater Corporation. (See Tabler, Harry C., assignor.)
American Hoist & Derrick Company. (See Sederholm, John E., assignor.)
American Incubators, Inc. (See Watson, Harold, L., assignor.)
American Injector Company. (See Diederich, P. E., and Roberts, assignors.)
American La France and Foamite Corporation. (See Witter, W. D., and Harte, assignors.)
American Laundry Machinery Company, The. (See Curtiss, Howard C., assignor.)
American Manganese Steel Company. (See Bruton, William C., assignor.)
American Metallurgical Corporation. (See Hanson, Albert J., assignor.)
American Radiator Company. (See Eggelston, Lewis W., assignor.)
American Radiator Company. (See Mertzanoff, André M., assignor.)
American Telechronometer Company. (See Babcock, Garrison, assignor.)
American Telephone and Telegraph Company. (See Bascom, H. M., and Jacobsen, assignors.)
American Telephone and Telegraph Company. (See Gordon, Chester S., assignor.)
American Telephone and Telegraph Company. (See Haines, W. T., assignor, and Harper.)
American Telephone and Telegraph Company. (See Jacobsen, E., assignor, and Sperry.)
American Telephone and Telegraph Company. (See McCurdy, R. G., and Blye, assignors.)
American Telephone and Telegraph Company. (See Peak, Warner L., assignor.)
American Type Founders Company. (See Kelly, William M., assignor.)
American Type Founders Company. (See Morrison, Lewis E., assignor.)
American Type Founders Company. (See Plum, Stephen H., 2d, assignor.)
American Type Founders Company. (See Plum S. H., 2d, and Duff, assignors.)
American Woodlite Corporation. (See Pagendarm, John F., assignor.)
American World Cue Tip Holder Co. (See Darmis, Cosmas, assignor.)
Anchor Post Fence Company. (See Hawthorne, Louis A., assignor.)
Anderson, Arvid E., Scotia, N. Y., assignor to General Electric Company. Control of electric switches. 1,695,003; Dec. 11.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Harry W. (See Seaberg, S., and Anderson.)
Anderson, John W., Gary, Ind. Indicator. 1,694,902; Dec. 11.
Anderson, John W., Gary, Ind. Indicating apparatus. 1,694,903; Dec. 11.
Anderson, John W., Gary, Ind. Indicating device. 1,694,904; Dec. 11.
Anderson, John W., Gary, Ind. Indicating device. 1,694,905; Dec. 11.
Anderson, John W., Gary, Ind. Indicator for cooling systems 1,694,906; Dec. 11.
Anderson, John W., Gary, Ind. Indicating means. 1,694,907; Dec. 11.
Anderson, John W., Gary, Ind. Indicating device for cooling systems. 1,694,908; Dec. 11.
Angel, Joe M., Pauls Valley, Okla. Horse collar. 1,695,167; Dec. 11.
Apple, Vincent G., Dayton, Ohio. Making an armature. 1,694,464; Dec. 11.
Armspear Manufacturing Company. (See Spear, Furman D., assignor.)
Arnold, Edward, and H. Templeton, Yakima, Wash. Box cover. 1,695,222; Dec. 11.
Arnold, Roy J. (See Smith, R. E., and Arnold.)
Asbestos Wood & Shingle Co. (See MacIldowie, John C., assignor.)
Atwater Kent Manufacturing Company. (See Rice, H. E., and Da Costa, assignors.)
Automatic Electric Inc. (See Bellamy, John I., assignor.)
Automatic Electric Inc. (See Ostline, John E., assignor.)
Automatic Merchandizer, Inc., The. (See Lea, Charles, assignor.)

Automatic Washer Company. (See Schroeder, Simon E., assignor.)
Autostrop Patents Corporation. (See Gaisman, Henry J., assignor.)
Autoyre Company, The. (See Mosgrove, Charles A., assignor.)
B. M. C. Patent Company. (See Martin, Robert J., assignor.)
Babcock, Garrison, assignor to American Telechronometer Company, Seattle, Wash. Telephone system. 1,694,934; Dec. 11.
Bacon, Roscoe C., Port Norris, N. J. Milk-bottle holder. 1,694,729; Dec. 11.
Baetz, Jacob H., Kitchener, Ontario, Canada. Standard lamp of candelabra type. 1,694,434; Dec. 11.
Ball, John R. (See Dean, William T., assignor.)
Balmat, Cecil H., assignor, by mesne assignments, to Standard Oil Company of California, San Francisco, Calif. Liquid-fuel burner. 1,694,366; Dec. 11.
Baltimore Bottle Machine Corporation. (See Nixon, Clarence R., assignor.)
Balton, James L., Baltimore, Md. Ice-cream cone. Des. 77,145; Dec. 11.
Balzer, Fritz, Moline, assignor, by mesne assignments, to Troy Laundry Machinery Company, Inc., Dover, Del. Centrifugal extractor. 1,694,614; Dec. 11.
Bamford, William E., Belfast, Northern Ireland. Manufacture of confectionery. 1,694,576; Dec. 11.
Bancroft, Albert F., West Newton, Mass. Insertable pad for shoes. 1,695,134; Dec. 11.
Bany, Herman, Scotia, N. Y. and H. T. Seeley, Yeadon, Pa., assignors to General Electric Company. Automatic control system. 1,695,004; Dec. 11.
Barber-Greene Company. (See Barber, Harry H., assignor.)
Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Portable conveyer. Re17,160; Dec. 11.
Barker Bros., Incorporated. (See Krick, George W., assignor.)
Barker, Horace E., Brooklyn, N. Y. Dental device. 1,694,636; Dec. 11.
Barker, Leo Wayne, assignor to Starlighters, Inc., Philadelphia, Pa. Airplane advertising device. 1,695,078; Dec. 11.
Barney, Andrew S., sr., Flushing, N. Y. Valve spring. 1,694,435; Dec. 11.
Barnhart, George E., Los Angeles, Calif. Room heater. 1,695,079; Dec. 11.
Barrett, Edward R., assignor to Wood Hydraulic Hoist & Body Company, Detroit, Mich. Hydraulic dumping-body hoist. 1,694,909; Dec. 11.
Barrett, Harry A., Philadelphia, Pa., assignor to Barrett Lock Company, Inc. Permutation lock. 1,695,080; Dec 11.
Barrett Lock Company. (See Barrett, Harry A., assignor.)
Barrows, Donald S., Rochester, N. Y. Side frame. 1,694,577; Dec. 11.
Barrows, Donald S., Rochester, N. Y. Striking casting. 1,694,900; Dec. 11.
Barsky, George, New York, N. Y., and F. W. Freise, Palmyra, N. J., assignors to American Cyanamid Company, New York, N. Y. Fertilizer. 1,695,081; Dec. 11.
Bartow, Jack B., Darby, Pa., assignor to Treiber Diesel Engine Corporation, Camden, N. J. Feed-control means for internal-combustion engines. 1,694,367; Dec. 11.
Bascom, Henry M., Brooklyn, and E. Jacobsen, Plandome, N. Y., assignors to American Telephone and Telegraph Company. Telephone-exchange system. 1,694,406; Dec. 11.
Basler, George T., Louisville, Ky. Mechanical movement. 1,694,961; Dec. 11.
Bassett, Alvin J., Milwaukee, Wis., assignor to The Bruce Macbeth Engine Company, Cleveland, Ohio. Oil-gas apparatus. 1,694,910; Dec. 11.
Bassett, William H., Cheshire, assignor to The American Brass Company, Waterbury, Conn. Hollow conductor. Re17,156; Dec. 11.
Bauer, Charles F., Louisville, Ky. Cooling and dispensing machine. 1,694,436; Dec. 11.
Bayha, William G., Perkasie, Pa., assignor to United States Gauge Company, New York, N. Y. Gauge. 1,694,838; Dec. 11.
Beacon Folding Machine Company. (See Ridderstrom, Andrew R., assignor.)
Beatty, Palmer and Beatty. (See Beatty, William H., assignor.)
Beatty, William H., Birmingham, Ala., assignor to Beatty, Palmer and Beatty. Centrifugal molding apparatus. 1,694,763; Dec. 11.
Beaver Machine & Tool Co. Inc. (See Rider, Herbert E., assignor.)
Beech-Nut Packing Company. (See Washburn, Walter B. C., assignor.)
Behnke, George W. (See Soldan, L. E., and Behnke.)
Beidatsch, Fred W., Milwaukee, Wis. Weedless fish bait. 1,694,697; Dec. 11.
Bell, Benjamin F., sr., Tyler, Tex. Mouth gag and tongue holder. 1,695,168; Dec. 11.
Bell Telephone Laboratories. (See Clement, Lewis M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Clokey, Allison A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Elmen, Gustaf W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ives, Herbert E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lum, George R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Murphy, Paul B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stoller, Hugh M., assignor.)
Bellamy, John I., assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Automatic telephone system. 1,694,615; Dec. 11.
Beloit Iron Works. (See Berry, Earl E., assignor.)
Benner, Harry P. (See Egloff, G. and Benner.)
Bennington, Earl T., Cleveland Heights, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Switch. 1,694,578; Dec. 11.
Berchielli, William, Albany, N. Y. Safety-razor cleaner. 1,695,135; Dec. 11.
Berger, Kornel C., New York, N. Y. Lamp-shade-frame holder. 1,695,223; Dec. 11.
Bergh, Ingvald G., and L. Nelsen, Watertown, S. Dak. Amalgamator attachment. 1,694,678; Dec. 11.
Bergmann, Leo O. (See Walker, L. P., and Bergmann.)
Beringer, Roecoe, assignor to General Motors Corporation, Detroit, Mich. Cowl ventilator. 1,694,764; Dec. 11.
Berry, Earl E., Beloit, assignor to Beloit Iron Works, Beloit, Wis. Suction roll for paper-making machines. 1,694,698; Dec. 11.
Berry, Edward R., Malden, Mass., assignor to General Electric Company. Metal tubing. 1,694,962; Dec. 11.
Besta, Adalbert, Duisberg, Germany. Heat-treating furnace. 1,695,224; Dec. 11.
Bethlehem Steel Company. (See West, Arthur J., assignor.)
Bethenod, Joseph, Paris, France. Speed regulator. 1,694,637; Dec. 11.
Bigler, Oscar A., Wyoming, Ohio. Bathing cap. 1,695,005; Dec. 11.
Bissell, Richard E., Cleveland Heights, assignor to Thompson Products Inc., Cleveland, Ohio. Tool for rotating valve heads. 1,694,699; Dec. 11.
Bitzer, Christian, New York, N. Y. Sewing-table attachments. 1,695,082; Dec. 11.
Black, Lester C., Los Angeles, Calif. Well-drilling tool. 1,694,679; Dec. 11.
Blackburne, Frederick W., London, England, assignor to Otis Elevator Company, New York, N. Y. Escalator safety device. 1,695,083; Dec. 11.
Bleecker, Warren F., Boulder, Colo. Impervious material. 1,694,730; Dec. 11.
Blevins, Thomas B., and J. C. Phillips, Long Beach, Calif. Auto signal device. 1,694,616; Dec. 11.
Bliss, E. W., Company. (See Kruse, Peter, assignor.)
Blode, William O., and L. J. Haming, Louisville, Ky. 1,694,963; Dec. 11.
Bloemsma, Bernard J., Wayne, Mich. Tongs. 1,694,525; Dec. 11.
Blye Paul W. (See McCurdy, R. G., and Blye.)
Bockius, George H., assignor to Diebold Safe & Lock Company, Canton, Ohio. Auxiliary lock. 1,695,136; Dec. 11.
Bodmer, Albert, assignor to Heberlein & Co. A. G., Wattwil, Switzerland. Dyeing. 1,694,526; Dec. 11.
Boeing Airplane Company. (See Monteith, Charles N., assignor.)
Boggs, Guy E. (See McElroy, David W., assignor.)
Bogin, Charles, assignor to Commercial Solvents Corporation, Terre Haute, Ind. Purification of butyric aldehyde. Re17,157; Dec. 11.
Bohner, Clyde C., Maplewood, assignor to Tung-Sol-Lamp Works, Newark, N. J. Manufacturing electric bulbs and bulb blanks for use therein. 1,694,368; Dec. 11.
Bohr, Frank M., Boston, Mass. Boot or shoe and manufacturing same. 1,695,225; Dec. 11.
Bol, Cornelis, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric discharge tube. 1,695,226; Dec. 11.
Bolinger, Ernest E., Emmett, Idaho. Electric water heater. 1,695 227; Dec. 11.
Booth, William N., Detroit, Mich. Demountable-rim tool. 1,694,527; Dec. 11.
Borden Company, The. (See McClatchie, John M., assignor.)
Borgnis, Samson, Philadelphia, Pa. Loom fabric protector. 1,695,137; Dec. 11.
Borrowdale, Russell W., assignor to J. Toman, Chicago, Ill. Attachment for printing presses. 1,694,638; Dec. 11.
Borst, Frederick C., et al. (See Dukesmith, Frank H., assignor.)
Böttger, Oskar, Frankfort-on-the-Main, Germany, assignor to The Turner Tanning Machinery Company, Portland, Me. Leather-working machine. 1,694,437; Dec. 11.
Bourjois, Inc. (See Guillaume, Paul M., assignor.)
Bradner, Donald B., Philadelphia, Pa., and N. E. Oglesby, Edgewood, Md., assignors, by mesne assignments, to Federal Laboratories, Inc., Pittsburgh, Pa. Process and apparatus for dispersing irritants. 1,695,228; Dec. 11.
Brainard, William W., New York, N. Y. Hog gambrel. 1,695,138; Dec. 11.
Brandes Laboratories, Inc. (See Worthington, Everett, assignor.)
Branson, Walter J., assignor, by mesne assignments, to Robbins & Myers, Inc., Springfield, Ohio. Centrifugal operating mechanism. 1,694,700; Dec. 11.





Breaker, Harry O., Buffalo, N. Y. Heat-treating furnace. 1,694,964; Dec. 11.
Brenek, Hans. (See Rothe, F., and Brenek.)
Breet, Albert, New Castle, Pa. Furnace cleaner. 1,695,169; Dec. 11.
Brintnall Manufacturing Company, Inc. of Delaware. (See Stack, Maurice J., assignor.)
Brock, Holden, assignor of one-half to J. Brock, St. Louis, Mo. Machine for forming plastic tile. 1,694,579; Dec. 11.
Brock, James. (See Brock, Holden, assignor.)
Brockhagen, Eugene F. (See Brockhagen, George J., assignor.)
Brockhagen, George J., assignor of one-half to E. F. Brockhagen, Brooklyn, N. Y. Golf-ball-teeing device. 1,695,006; Dec. 11.
Brown, Charles A., Gardner, assignor to Heywood-Wakefield Company, Boston, Mass. Chair. 1,694,617; Dec. 11.
Brown Company. (See Daw, Joseph, assignor.)
Brown Company. (See Root, Bertwell C., assignor.)
Brown, Davis, assignor of one-half to W. A. Riddell, Bucyrus, Ohio. Indicator board. 1,694,639; Dec. 11.
Brown, Elmer B., assignor to The Fleischmann Company, New York, N. Y. Coiling and drying materials. 1,694 807; Dec. 11.
Brown, George R., New Haven, Conn. Hydraulic system and means for propelling vessels. 1,694,840; Dec. 11.
Brown, Henry K., assignor to Cook Laboratories, Inc., Chicago, Ill. Syringe. 1,694,766; Dec. 11.
Brown, Sumner E., Dedham, Mass. Lamp-focusing device. 1,694,765; Dec. 11.
Brown, Westgarth S. F., and J. Maina, London, England. Variable-speed gearing. 1,694,808; Dec. 11.
Brooks, William L., Ardmore, Okla. Gas stove. 1,694,839; Dec. 11.
Bruce Macbeth Engine Company, The. (See Bassett, Alvin J., assignor.)
Brunner, Eugen, assignor to Goodyear-Zeppelin Corporation, Akron, Ohio. Landing bumper for airships. 1,694,873; Dec. 11.
Bruton, William C., Berkeley, Calif., assignor to American Manganese Steel Company, Chicago, Ill. Rotary screen or plate for producing same. 1,694,498; Dec. 11.
Buckley, Joseph B., Detroit, Mich. Combination game board and score counter. 1,694,965; Dec. 11.
Buckley, Oliver E., Maplewood, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Magnetic alloy. 1,695,038; Dec. 11.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Burdick, Charles L., assignor to Guggenheim Brothers, New York, N. Y. Refrigerating apparatus. 1,694,369; Dec. 11.
Burdick, Charles L., New York, N. Y. Refrigerating and heat-interchanging apparatus. 1,694,370; Dec. 11.
Burdick, Charles L., assignor to Guggenheim Brothers, New York, N. Y. Multiple-tube cleaner. 1,694,371; Dec. 11.
Burdick, Charles L., London, England. Respirator. 1,695,170; Dec. 11.
Burnham, George A., Saugus, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Electrical apparatus and switch. 1,694,618; Dec. 11.
Burrell, D. H., & Co. (See Adams, Zenas P., assignor.)
Burton, Edward F., and J. H. Montgomery, assignors to Honey-Butter Company, Los Angeles, Calif. Food product and producing the same. 1,694,680; Dec. 11.
Bush, Arthur G., Davenport, Iowa. Pivot bolt for automobiles. 1,694,681; Dec. 11.
Bushnell, James E., North Plainfield, assignor to Ransome Concrete Machinery Company, Plainfield, N. J. Boom track for bucket concrete distributors. 1,694,372; Dec. 11.
Busold, William, West Orange, assignor to The Trimble Hat Company, Orange, N. J. Hat welt and forming same. 1,695,084; Dec. 11.
Buttress, George A., Los Angeles, Calif. Lath board. 1,694,640; Dec. 11.
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Morgan, assignors.)
Cable, Julius L., Boston, Mass. Chair. 1,694,935; Dec. 11.
Camp, Curtis B. (See Stokes, Charles L., assignor.)
Campbell, Arthur J. (See Moore, B. J., and Campbell.)
Canadian Pacific Railway Company, The. (See Sturrock, Archibald, assignor.)
Canadian Sturdy Chain Company Limited. (See Allen, Harrison L., assignor.)
Carbide and Carbon Chemicals Corporation. (See Curme, George O., jr., assignor.)
Carbide and Carbon Chemicals Corporation. (See Curme, G. O., jr., and Reid, assignors.)
Carbide and Carbon Chemicals Corporation. (See Thompson, Harold E., assignor.)
Cardwell, James R., Chicago, Ill. Railway-car truck. 1,695,085; Dec. 11.
Cardwell, James R., Chicago, Ill. Railway-car truck. 1,695,086; Dec. 11.
Carlson, Elof L., assignor to The E. Ingraham Co., Bristol, Conn. Producing gong stands for clocks. 1,695,087; Dec. 11.
Carlson, Nelson A., assignor to Erie Meter Systems, Inc., Erie, Pa. Tank-discharge-controlling mechanism. 1,694,407; Dec. 11.
Carlton, James A., St. Louis, Mo. Paper jogger. 1,694,499; Dec. 11.
Carlton, James A., assignor to Massey-Harris Company, Limited, Toronto, Ontario, Canada. Safety device for elevators. 1,694,731; Dec. 11.
Carr Fastener Company. (See Carr, Fred S., assignor.)
Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Shiftable nut fastening. 1,694,580; Dec. 11.
Carr, Henry W., San Francico, Calif. Recovering values by evaporation. 1,694,841; Dec. 11.
Cash, A. W., Company. (See Howse, Curtis L., assignor.)
Casper, Louis, Brooklyn, N. Y. Telegraph transmission of signals. 1,694,769; Dec. 11.
Catá, Ramon M., Barcelona, Spain. Device for sharpening the points of pencils. 1,694,581; Dec. 11.
Cavnah, William H. (See Vogan, Frank M., assignor.)
Cawood, Clarence A., Big Stone Gap, Va., assignors to The Electric Railway Equipment Company, Cincinnati, Ohio. Hanger for electric wires. 1,695,007; Dec. 11.
Cazenove, James O. H., New York, N. Y. Egg beater. 1,694,500; Dec. 11.
Celanese Corporation of America. (See Ellis, George H., assignor.)
Celanese Corporation of America. (See Palmer, Charles W., assignor.)
Chadwick, Lee S., Shaker Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Automatically-controlled burner. 1,694,501; Dec. 11.
Chemische Fabrik von Heyden. (See Zellmann, R., and Lammering, assignors.)
Chicago-Cleveland Car Roofing Company. (See Mattingley, Edward H., assignor.)
Chicago Flexible Shaft Company. (See Sjolin, Ernest, assignor.)
Chicago Jefferson Fuse & Electric Company. (See Johnson, Chester A., assignor.)
Chicago Mill and Lumber Corporation. (See Gerlach, Charles W., assignor.)
Child, Herbert E. (See Penney, L. W., and Child.)
Chinn, Neil M., assignor of one-fourth to R. H. Wilson and one-fourth to T. B. Wilson, Perry, Okla. Bearing. 1,694,438; Dec. 11.
Christensen, Valdemar, Cincinnati, Ohio. Sterilizing and incubating apparatus. 1,695,008; Dec. 11.
Christianson, Milton E., Jasper, Minn. Arch supporter. 1,694,582; Dec. 11.
Cincinnati Butchers' Supply Company, The. (See McTavish, Robert, assignor.)
Clark, James E., (See Clark, Thomas E. and J. E., and Coop.)
Clark, Lucius R., and A. M. Yeomans, Chicago, Ill.; said Yeomans assignor to said Clark. Furniture bracing. 1,695,189; Dec. 11.
Clark, Thomas E. and J. E., and W. L. Coop, assignors to Continuous Train Control Corporation, Detroit, Mich. Train-control system. 1,694,373; Dec. 11.
Clarkson, John L., Nashville, Ill. Flexible railway track. 1,694,528; Dec. 11.
Claus, Emil L. and W. E., assignors to Claus Manufacturing Co., Milwaukee, Wis. Oven-heat-regulating device. 1,694,682; Dec. 11.
Claus Manufacturing Co. (See Claus, Emil L. and W. E., assignors.)
Claus, Walter E. (See Claus, Emil L. and W. E.)
Clausing, George, assignor, by mesne assignments, to Vulcan Corporation, Portsmouth, Ohio. Heel-turning machine. 1,694,465; Dec. 11.
Clavel, René, Basel-Augst, Switzerland. Obtaining metallic effects on fabrics containing organic derivatives of cellulose. 1,694,466; Dec. 11.
Clement, Edward E. (See Hoge, J. B., and Clement.)
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast selecting and distributing system. Re17,163; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio receiving instrument. 1,695,172; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio broadcast selecting and distributing system. 1,695,173; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio receiving instrument for systems of broadcast distribution. 1,695,174; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Traffic-control system for radio broadcast distribution. 1,695,176; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio service metering system. 1,695,177; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Selective key for radio systems. 1,695,178; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Secrecy system of radio broadcast distribution. 1,695,179; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Secrecy system of radio broadcast distribution. 1,695,180; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Radio receiving instrument for systems of broadcast distribution. 1,695,181; Dec. 11.
Clement, Edward E., assignor to E. F. Colladay, Washington, D. C. Trunking system for radio distribution. 1,695,182; Dec. 11.

Clement, Lewis M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave signaling system. 1,695,039; Dec. 11.

Cleveland Crane & Engineering Company, The. (See Bennington, Earl T., assignor.)

Clifford, Albert M., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Antioxidant or age resister. 1,694,529; Dec. 11.

Clinker, Reginald C., Bilton, near Rugby, England, assignor to General Electric Company. Electrical system. 1,694,966; Dec. 11.

Clisson, Albert B., assignor, by mesne assignments, to The Prosperity Company, Inc., Syracuse, N. Y. Operating mechanism for pressing machines. 1,695,088; Dec. 11.

Clokey, Allison A., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multiplex telegraph system. 1,695,040; Dec. 11.

Cochran, James P., Canyon City, Oreg. Tool and handle connection. 1,695,009; Dec. 11.

Coe Manufacturing Company, The. (See Lockhart, James, assignor.)

Cogswell, Leander A., assignor to Lacene Manufacturing Company, Manchester, N. H. Grading and distributing machine. 1,694,408; Dec. 11.

Cohen, Arthur, Dorchester, Mass. Slip cover. 1,695,244; Dec. 11.

Cohen, Louis A., Central City, Ky. Truck for transporting poultry. 1,694,732; Dec. 11.

Cole, Elmer K., Winterset, Iowa. Cable clamp. 1,694,683; Dec. 11.

Colladay, Edward F. (See Clement, Edward E., assignor.)

Colladay, Edward F. (See Hoge, J. B., and Clement, assignors.)

Colladay, Edward F. (See Löwenstein, Harry F., assignor.)

Columbia Steel Company, The. (See Naugle, H. M., and Townsend, assignors.)

Colwell, Byron E., Addison, Mich. Roller skate. 1,694,374; Dec. 11.

Commercial Solvents Corporation. (See Bogin, Charles, assignor.)

Compagnie des Forges & Acieries de la Marine & d'Homecourt et al. (See de Courseulles, Robert, assignor.)

Concrete Engineering Company. (See Meyer, Charles L., assignor.)

Condit Electrical Manufacturing Corporation. (See Ainsworth, Chester D., assignor.)

Condit Electrical Manufacturing Corporation. (See Burnham, George A., assignor.)

Conklin, Roscoe D., Rahway, N. J., assignor to National Pneumatic Company, New York, N. Y. Air compressor. 1,694,583; Dec. 11.

Continental Can Company. (See Fink, Henry A., assignor.)

Continental Can Company. (See Hodgson, William W., assignor.)

Continental Can Company. (See Sedwick, Mathew M., assignor.)

Continuous Train Control Corporation. (See Clark, Thomas E. and J. E., and Coop, assignors.)

Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill. Hypodermic syringe. 1,694,767; Dec. 11.

Cook, Harvey S., Valparaiso, Ind., assignor to Cook Laboratories, Inc., Chicago, Ill. Aseptic needle holder. 1,694,768; Dec. 11.

Cook Laboratories, Inc. (See Brown, Henry K., assignor.)

Cook, Merlin S. (See Curtis, Zenas A., assignor.)

Coolbaugh, Melville F. (See Read, J. B., and Coolbaugh.)

Coolidge, William D., Schenectady, N. Y., assignor to General Electric Company. Vacuum device. 1,694,967; Dec. 11.

Coop, William L. (See Clark, Thomas E. and J. E., and Coop.)

Cooper, Basil P. (See Gouldbourn, J., Cooper, and Elliott.)

Cooper Hewitt Electric Company. (See Walker, Warren R., assignor.)

Cooper Hewitt Electric Company. (See Winninghoff, Wilford J., assignor.)

Cope, Frank T., assignor to The Electrical Furnace Company, Salem, Ohio. Annealing furnace. 1,694,684; Dec. 11.

Covel, Nathan E., Newtonville, Mass. Advertising wrapping for packages. 1,694,701; Dec. 11.

Cox, Edwin R., and D. A. Cushman, Los Angeles, Calif. Combined absorption and fractionation for recovering gasoline from gas. 1,695,139; Dec. 11.

Coy, Herbert C., Chicago, Ill. Combination lock. 1,694,968; Dec. 11.

Crago, Paul H., Forest Hills Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Car-operated switching mechanism. 1,694,409; Dec. 11.

Craig, Ollison, assignor to Riley Stoker Corporation, Worcester, Mass. Fuel-pusher mechanism for stokers. 1,695,229; Dec. 11.

Cram, Leroy V., Flint, assignor to General Motors Corporation, Detroit, Mich. Oil-pump screen. 1,694,770; Dec. 11.

Crane Co. (See Graham, Lucy J., assignor.)

Crerar, Adams, & Co. (See Rostron, Robert, assignor.)

Crompton, Thomas A., Ilford, England. Pressure-relieving valve. 1,695,248; Dec. 11.

Crosby, Arthur P., assignor of one-half to W. T. Price, Minneapolis, Minn. Radiator return trap. 1,694,641; Dec. 11.

Cross Manufacturing Company. (See McNaught, Norris F., assignor.)

Cullinan, Ralph, Richmond, assignor, by mesne assignments, to The Texas Company, New York, N. Y. Container. 1,694,584; Dec. 11.

Cummins, Roy M., Barberton, Ohio. Automobile cleaning brush. 1,694,733; Dec. 11.

Curme, George O., jr., Charleston, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Manufacture of glycols. 1,695,250; Dec. 11.

Curme, George O., jr., and E. W. Reid, Pittsburgh, Pa., assignors, by mesne assignments, to Carbide and Carbon Chemicals Corporation, New York, N. Y. Making isopropyl alcohol. 1,695,249; Dec. 11.

Curtis Aeroplane & Motor Co. (See Wright, T. P., and Walt, assignors.)

Curtis, Arthur R., Cleveland, Ohio. Support and bearing for gratifying shafts. 1,695,230; Dec. 11.

Curtis, Milton, Beckley, W. Va. Shade roller. 1,694,969; Dec. 11.

Curtis, Zeenas A., Cimarron, N. Mex., assignor of one-eighth to M. S. Cook, Lansdowne, Pa. Alarm for automobiles. 1,694,842; Dec. 11.

Curtiss, Howard C., Norwood, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Ironing machine. 1,694,970; Dec. 11.

Cushman, Dexter A. (See Cox, E. R., and Cushman.)

Cutler, Frank W., Portland, Oreg. (Spray washer. 1,694,734; Dec. 11.

Da Costa, Robert C. (See Rice, H. E., and Da Costa.)

Dalrymple, William P., assignor, by meane assignments, to Gorlen Company, Inc., Chicago, Ill. Automobile radiator cap. 1,694,771; Dec. 11.

Daly, John J. (See Shopneck, Henry P., assignor.)

D'Ascanio, Corradino. (See Trojani, P., and D'Ascanio.)

Darmis, Cosmas, assignor to American World Cue Tip Holder Co., Philadelphia, Pa. Billiard-cue-tip holder. 1,694,375; Dec. 11.

Davis, Dean W., Elmhurst, assignor to L. New, Greenfield, Ind. Catalytic agent in storage battery. 1,694,530; Dec. 11.

Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Cross-weaving loom. 1,695,010; Dec. 11.

Daw, Joseph, Quebec, Quebec, Canada, assignor to Brown Company, Berlin, N. H. Blade construction. 1,694,410; Dec. 11.

Dawson, Aaron G. (See Langton, E. W., and Dawson.)

Dawson-Evans Construction Co., The. (See Rankin, Ollie W., assignor.)

Day, Charles M., Kirkwood, and C. J. Scullin, St. Louis, Mo. Furnace for reduction of iron. 1,694,376; Dec. 11.

Deak, Michael. (See Déri, S., and Deak.)

Dean, Peter P., New Canaan, Conn. Valve. 1,694,809; Dec. 11.

Dean, William T., Glencoe, Ill., assignor by mesne assignments to J. R. Ball, Milwaukee, Wis. Liquid-fuel-burning system. 1,694,772; Dec. 11.

Debrebant, Francis. (See Remy, A., Renaux, Delort, and Debrebant.)

De Courseulles, Robert, assignor to Société Schneider & Co. and Compagnie des Forges & Acieries de la Marine & d'Homecourt, Paris, France. Device for the horizontal aiming of turrets comprising several guns. 1,694,843; Dec. 11.

Dédisse, Henri, Boulogne-sur-Seine, France. Mudguard for motor vehicles. 1,695,247; Dec. 11.

De Gerson, Raesfeld J., born Berthier, Paris, France. Manufacture of artificial flower. 1,694,844; Dec. 11.

De Graff, Ellis A., assignor to Leather Makers' Process Company, Detroit, Mich. Turning table for skin-drying plates. 1,694,531; Dec. 11.

Deitel, Benjamin B., Brooklyn, N. Y. Vanity case. 1,694,702; Dec. 11.

De Laval Separator Company, The. (See Gilmore, Vincent J., assignor.)

De Laval Separator Company, The. (See Hapgood, Cyrus H., assignor.)

De Laval Separator Company, The. (See Miller, Philip F., assignor.)

De Laval Separator Company, The. (See Sangster, William, assignor.)

De Lavaud, Dimitri S., Paris, France. Free-wheel clutch. 1,694,377; Dec. 11.

Delort, Jean. (See Remy, A., Renaux, Delort, and Debrebant.)

Demers, Honore, Manchester, N. H. Loom stop mechanism. 1,694,411; Dec. 11.

Dennison, French E., assignor to National Refrigeration Corporation, Beloit, Wis. Refrigerating apparatus. 1,694,532; Dec. 11.

Deppeler, John H., Weehawken, N. J., assignor to The Heat Research and Service Corporation, Wilmington, Del. Thermal mine. 1,695,089; Dec. 11.

Déri, Stephen, and M. Deak, assignors of one-fourth to R. Nohavicska, Fairmont, W. Va. Rail joint. 1,695,140; Dec. 11.

De Trey, Emanuel, Zurich, Switzerland. Kneading device. 1,694,845; Dec. 11.

De Villegas, Rafael D., Allston, Mass. Shaving brush. 1,695,141; Dec. 11.

Dick, William R., San Diego, Calif. Internal-heat-circulating cooking utensil. 1,694,773; Dec. 11.





Diebold Safe & Lock Company. (See Bocklus, George H., assignor.)

Diederich, Paul E., and M. G. Roberts, assignors to American Injector Company, Detroit, Mich. Automobile heater. 1,694,412; Dec. 11.

Diemer, John A., assignor to Stromberg Motor Devices Company, Chicago, Ill. Feeding fuel by waste heat. 1,694,911; Dec. 11.

Diestelkamp, Frederick A., Lowell, Oreg. Loose-leaf binder. 1,694,846; Dec. 11.

Dillon, Thomas H., jr., Greeley, Nebr. Snapping-roll cleaner. 1,694,533; Dec. 11.

Dodge, Carl V., Bellevue, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Apparatus for reshaping annealing boxes. 1,695,142; Dec. 11.

Doherty Research Company. (See Lowe, Russell E., assignor.)

Donald, Harry G., Philadelphia, Pa. Liquid vaporizer. 1,694,936; Dec. 11.

Donaldson, Alfred S., Newark, N. J., assignor to Du Pont Viscoloid Company, Wilmington, Del. Decorated cellulose-ester article and making same. 1,694,847; Dec. 11.

Döppenschmitt, Friedrich, Pforsheim, Germany. Beaded article of jewelry. 1,694,703; Dec. 11.

Downey, Michael J., Springfield, Mass. Portable ash-can truck. 1,695,183; Dec. 11.

Drapeau, Benjamin L., assignor to Standard Abrasive Co., Jersey City, N. J. Box. 1,695,143; Dec. 11.

Draper Corporation. (See Davis, Harry A., assignor.)

Dreis, Herman C., Chicago, Ill. Bending machine for bending plates or strips of sheet metal. 1,694,585; Dec. 11.

Dry Zero Corporation. (See Lindsay, Harvey B., assignor.)

Dryden, William W., assignor to W. F. Stimpson, Louisville, Ky. Food grinder. 1,694,502; Dec. 11.

Duff, Harry. (See Plum, S. H., 2d, and Duff.)

Dukesmith, Frank H., Meadville, Pa., assignor, by mesne assignments, to F. C. Borst and F. R. Stewart. Air-brake system. 1,695,245; Dec. 11.

Dunbar, Frank H. (See Allen, Frank B., assignor.)

Dunbar, Harold F., Turners Falls, Mass. Variable-speed control for paper-making machines. 1,694,704; Dec. 11.

Duncan, William M., Alton, Ill. Furnace arch. 1,694,534; Dec. 11.

Dunham, George W., New Haven, Conn., assignor to Whirldry Corporation, Utica, N. Y. Automatic clutch arrangement for laundry machines. 1,694,810; Dec. 11.

Dunham, Robert A., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Treatment of spent clays. 1,694,971; Dec. 11.

Dunn, Edward L. (See Lindquist, D. L., Dunn, and Larson.)

Duparquet, Huot & Moneuse Co. (See Fuller, Louis J., assignor.)

Du Pont Viscoloid Company. (See Donaldson, Alfred S., assignor.)

Duro Company, The. (See Eisenhauer, Charles P., assignor.)

Duro Company, The. (See Toulmin, Harry A., jr., assignor.)

Dyhrberg, Lauritz N., Ashburton, New Zealand. Brick delivering and stacking means. 1,694,586; Dec. 11.

Dykstra, James, Lansing, assignor to General Motors Corporation, Detroit, Mich. Spring hanger and bumper support. 1,694,774; Dec. 11.

Easton Car & Construction Company. (See Fraunfelder, George D., assignor.)

Edison Electric Appliance Company. (See Randolph, Charles P., assignor.)

Edson, Elmer R., Portland, Oreg. Railway roadbed and track construction. 1,694,811; Dec. 11.

Edwards, Earl, Santa Ana, Calif. Game. 1,695,144; Dec. 11.

Edwards, Henry J., assignor to Industrial Research Corporation, Toledo, Ohio. Internal-combustion engine. 1,694,642; Dec. 11.

Edwards, John R., Vancouver, British Columbia, Canada, assignor to American Can Company, New York, N. Y. Rail car and attaching same. 1,694,775; Dec. 11.

Egan, Alfred. London, England. Hack-saw frame. 1,695,231; Dec. 11.

Eggleston, Lewis W., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Automatic draft regulator for boilers. 1,695,241; Dec. 11.

Eggleston, Lewis W., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Automatic draft regulator for boilers. 1,695,242; Dec. 11.

Eggleston, Lewis W., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Automatic draft regulator for boilers. 1,695,243; Dec. 11.

Egloff, Gustav, and H. P. Benner, assignors to Universal Oil Products Company, Chicago, Ill. Apparatus for treating emulsified oil. 1,694,643; Dec. 11.

Eichwede, Heinz. (See Wagner, H., Eichwede, and Fischer.)

Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Filter. 1,694,407; Dec. 11.

Electric Manufacturing Company, The. (See Levy, Henri G., assignor.)

Electric Railway Equipment Company, The. (See Cawood, Clarence A., assignor.)

Electrical Furnace Company, The. (See Cope, Frank T., assignor.)

Electrolock Manufacturing Company, The. (See Hemingway, Wilson, jr., assignor.)

Elder & Jenks. (See Reese, William, assignor.)

Elliott-Fisher Company. (See Vickers, Harry H., assignor.)

Elliott, Harmon P., Watertown, Mass. Addressing machine. 1,694,619; Dec. 11.

Elliott, Harold E. (See Gouldbourn, J., Cooper, and Elliott.)

Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Treatment of cellulose acetate. 1,694,413; Dec. 11.

Ellis, George H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Dyeing, printing, or stenciling of cellulose. 1,694,414; Dec. 11.

Ellsworth, Ross J., assignor to Holmes Disappearing Bed Company, Woodstock, Ill. Safety lock. 1,695,184; Dec. 11.

Elmen, Gustaf W., Leonia, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Production of magnetic dust cores. 1,695,041; Dec. 11.

Elrick Rotating Engine Company. (See Elrick, William, assignor.)

Elrick, William, assignor to Elrick Rotating Engine Company, Limited, Toronto, Ontario, Canada. Rotary engine. 1,694,587; Dec. 11.

Emmons, Arthur N., Nedrow, assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Abrading machine. 1,695,090; Dec. 11.

Engeln Electric Company, The. (See Goldfield, E. R., and Horsley, assignors.)

Erie Meter Systems, Inc. (See Carlson, Nelson A., assignor.)

Eskridge, James T., La Jara, Colo. Supporter for wearing apparel. 1,694,735; Dec. 11.

Essex Rubber Company. (See Oakley, Laurence M., assignor.)

Everhard, Harry H., Canton, Ohio. Ventilating screen. 1,695,091; Dec. 11.

Failing, Otto C. (See Mason, A. R., and Failing.)

Fair Play Caramels, Inc. (See Trauger, John W., assignor.)

Farrand, Clair L., Forest Hills, N. Y. Loud-speaker casing. Des. 77,146; Dec. 11.

Fearing, Justin L., Jamaica, assignor to Western Electric Company, Incorporated, New York, N. Y. High-efficiency discharge-device system. 1,695,042; Dec. 11.

Federal Laboratories, Inc. (See Bradner, D. B., and Oglesby, assignors.)

Fejes, Eugene, Budapest, Hungary. Crank and like case. 1,694,535; Dec. 11.

Fekete, Stephen L., assignor to Hudson Motor Car Company, Detroit, Mich. Governor for ignition systems. 1,694,644; Dec. 11.

Fender, John B., Kaufman, Tex. Concrete culvert. 1,694,736; Dec. 11.

Findlay, Robert, Manufacturing Company. (See Schwartz, Frederick, assignor.)

Fink, Henry A., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Flanging can bodies and flanging head for carrying out the same. 1,695,232; Dec. 11.

Fink, Henry A., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Automatic stack-lifting device. 1,695,233; Dec. 11.

Finley, Dozier, Berkeley, and W. L. Rhoades, assignors to The Paraffine Companies, Inc., San Francisco, Calif. Curing concrete. 1,694,588; Dec. 11.

Finnell, Walter S., Hannibal, Mo. Scrubbing machine. 1,694,737; Dec. 11.

Finnicum, Louis G., St. Paul, Minn. Glare shield. 1,694,645; Dec. 11.

Fischer, Erich. (See Wagner, H., Eichwede, and Fischer.)

Fischer, Wilhelm. (See Liebert, H. R., and Fischer.)

Fish, George L., Los Angeles, assignor to R. Salisbury, trustee, Oakland, Calif. Emulsifying apparatus. 1,694,589; Dec. 11.

Fitch, Benjamin F., Evanston, Ill., assignor to Motor Terminals Company, Wilmington, Del. Handling freight. 1,694,912; Dec. 11.

Fitch, Benjamin F., New York, N. Y., assignor to Motor Terminals Company, Wilmington, Del. Freight-handling apparatus. 1,694,913; Dec. 11.

Flanigan, Edwin B., assignor to E. B. Flanigan, Incorporated, Wilkes-Barre, Pa. Vehicle brake. 1,694,776; Dec. 11.

Flanigan, E. B., Incorporated. (See Flanigan, Edwin B., assignor.)

Fleischmann Company, The. (See Brown, Elmer B., assignor.)

Flint, Alston H. (See Riley, T. H., and Flint.)

Flintkote Company, The. (See Heppes, Otto A., assignor.)

Floeter, Frederick S., Saginaw, Mich. Floor-scrubbing machine. 1,694,937; Dec. 11.

Floraday, Burton S., Toledo, Ohio, assignor to Hydraulic Brake Company, Detroit, Mich. Piston and cylinder construction. 1,694,503; Dec. 11.

Floyd, George G., Riverside, Ill. Dispensing device. 1,694,812; Dec. 11.

Flynt, Augustus M., Savannah, Ga. Spare-tire carrier. 1,694,439; Dec. 11.

Foley, Charles B., Fort Wayne, Ind., assignor to Charles B. Foley, Inc., New York, N. Y. Electric furnace. 1,694,536; Dec. 11.

Foley, Charles B., Inc. (See Foley, Charles B., assignor.)

Fornaca, Guido, Turin, Italy. Valve gear. 1,695,011; Dec. 11.
Forster, H. J., trustee of the American Railway Association. (See Kivlin, Alfred P., assignor.)
Fowler, Mack J., Roanoke, Va. Lubricator. 1,694 813; Dec. 11.
Fowler, William S., assignor to Hampden Glazed Paper & Card Company, Holyoke, Mass. Cover paper or the like. Des. 77,147; Dec. 11.
Frankart, Inc. (See Von Frankenberg, Arthur, assignor.)
Franklin, Charles S., London, England, assignor, by mesne assignments, to Radio Corporation of America. Wirless telegraph receiver. 1,694,646; Dec. 11.
Fraser, Fred L., Philadelphia, Pa. Pipe-bowl knife. 1,695,145; Dec. 11.
Fraunfelder, George D., assignor to Easton Car & Construction Company, Easton, Pa. Box-girder construction for car bodies. 1,694,537; Dec. 11.
Freeborn, Cornelius C., ar. (See Freeborn, Edward H., assignor.)
Freeborn, Edward H., New York, N. Y., assignor to C. C. Freeborn, sr., New Milford, N. J. Sound clarifier. 1,694,848; Dec. 11.
Freise, Frederick W. (See Barsky, G., and Freise.)
Frick Company. (See Good, Daniel F., assignor.)
Friedley-Voshardt Company. (See Wellman, Lester R., assignor.)
Friedman, William F., Washington, D. C. Electrical signaling. 1,694,874; Dec. 11.
Frier, James H., jr., Webster Groves, Mo. Toy house. Des. 77,148; Dec. 11.
Frier, James H., jr., Webster Groves, Mo. Toy house. Des. 77,149; Dec. 11.
Fritz, John L., Geauga Lake, Ohio. Centrifugal separator. 1,694,972; Dec. 11.
Fujii, Sunao, Honolulu, Hawaii. Knitting device. 1,694,849; Dec. 11.
Fulenwider, Harry. (See Fulenwider, Jesse and H., Robinson, and Norris.)
Fulenwider, Harry, et al. (See Fulenwider, Jesse and H., Robinson, and Norris, assignors.)
Fulenwider, Jesse and H., E. W. Robinson, and H. Norris, assignors to H. and J. Fulenwider, Savannah, Ga. Ridge-cap-forming machine. 1,694,440; Dec. 11.
Fulenwider, Jesse, et al. (See Fulenwider, Jesse and H., Robinson, and Norris, assignors.)
Fuller Brush Company, The. (See Van Veen, Anton, assignor.)
Fuller, Louis J., Bloomfield, N. J., assignor to Duparquet, Huot & Moneuse Co., New York, N. Y. Insulating support for electric resistance heating element. 1,695,234; Dec. 11.
Gaisman, Henry J., New York, N. Y., assignor to Autostrop Patents Corporation, Dover, Del. Carpet-wire blade-inserting machine. 1,694,875; Dec. 11.
Gale, George T., Toronto, Ontario, Canada. Holder for dentifrice-container tubes. 1,695,185; Dec. 11.
Gallon Metallic Vault Company, The. (See Smith, R. E., and Arnold, assignors.)
Galloway, Robert M., assignor to The National Automatic Tool Company, Richmond, Ind. Head mount for multiple drills. 1,694,814; Dec. 11.
Galvin, Charles E., assignor to The Ridgely Trimmer Company, Springfield, Ohio. Straightedge for wall-paper trimmers. 1,694,850; Dec. 11.
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Fender for sweepers. 1,695,246; Dec. 11.
Gardner, David S. (See Gardner, Joseph A. and D. S.)
Gardner, Joseph A. and D. S., Memphis, Tenn. Centrifugal casting machine. 1,694 504; Dec. 11.
Garfield, James L., Drexel Hill, Pa. Billing device. 1,694,647; Dec. 11.
Garlick, Ralph, Totowa, N. J. Christmas-tree stand. 1,694,815; Dec. 11.
Geary, George, Toronto, Ontario, Canada. Floor-finishing apparatus. 1,694,738; Dec. 11.
Geiger, Edward F., Chicago, Ill., assignor to International Time Recording Company of New York, Binghamton, N. Y. Watchmen's deliquency alarm. 1,695,092; Dec. 11.
Geiger, Josef, assignor to Maschinenfabrik Augsburg-Nuernberg, Aktiengesellschaft, Augsburg, Germany. Locomotive. 1,694,648; Dec. 11.
General Chemical Company. (See Thompson, Alfred P., assignor.)
General Electric Company. (See Anderson, Arvid E., assignor.)
General Electric Company. (See Bany, H., and Seeley, assignors.)
General Electric Company. (See Berry, Edward R., assignor.)
General Electric Company. (See Clinker, Reginald C., assignor.)
General Electric Company. (See Coolidge, William D., assignor.)
General Electric Company. (See Goodwin, Alan M., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Newton, E. G., and Wade, assignors.)
General Electric Company. (See Sabbah, Camille A., assignor.)
General Electric Company. (See Schrage, Hidde K., assignor.)
General Electric Company. (See Sensui, Nobuo, assignor.)
General Electric Company. (See Sohlberg, Erik G., assignor.)
General Electric Company. (See Van Horn, Irving H., assignor.)
General Electric Company. (See Wolff, Walther, assignor.)
General Highways System, Incorporated. (See Johnson, Gordon S., assignor.)
General Motors Corporation. (See Beringer, Roscoe, assignor.)
General Motors Corporation. (See Cram, Leroy V., assignor.)
General Motors Corporation. (See Dykstra, James, assignor.)
General Motors Corporation. (See Hicks, Harlie H., assignor.)
General Motors Corporation. (See Spencer, Louis M., assignor.)
General Motors Corporation. (See Taub, Alex, assignor.)
General Motors Research Corporation. (See Short, Charles R., assignor.)
General Motors Research Corporation. (See Summers, C. E., and Lee, assignors.)
Gerlach, Charles W., assignor, by mesne assignments, to Chicago Mill and Lumber Corporation, Chicago, Ill. Packing case. 1,694,973; Dec. 11.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Meissener, Alexander, assignor.)
Gibbons Brothers Limited. (See Moore, B. J., and Campbell, assignors.)
Gilbert, A. C., Company, The. (See Gilbert, Albert C., assignor.)
Gilbert, Albert C., Hamden, assignor to The A. C. Gilbert Company, New Haven, Conn. Toy machine frame. Des. 77,150; Dec. 11
Gilmore, Vincent J., Wappingers Falls, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal-separator feeding device. 1,694,468; Dec. 11.
Glass, William, Campbell, Ohio. Bottle cap. 1,694,851; Dec. 11.
Glascock Brothers Mfg. Company. (See Miller, Calvin N., assignor.)
Glidden, Alfred A., and T. M. Knowland, Watertown, and W. T. Rich, jr., Newton, assignors to Hood Rubber Company, Watertown, Mass. Valve-stem adapter for inner-tube molds. 1,695,012; Dec. 11.
Glidden, Alfred A., and T. M. Knowland, Watertown, and W. T. Rich, jr., Newton, assignors of Hood Rubber Company, Watertown, Mass. Valve-stem adapter for inner-tube molds. 1,695,013; Dec. 11.
Glover, Charles H., La Grange, Ill. Artificial Christmas tree. 1,694,974; Dec. 11.
Goddard, Alvin C., Richmond Hill, N. Y. Pivot hinge. 1,695,235; Dec. 11.
Goldberg, Samuel, assignor to Goldberg & Squire, Incorporated, New York, N. Y. Necktie. 1,694,816; Dec. 11.
Goldberg & Squire, Incorporated. (See Goldberg, Samuel, assignor.)
Goldfield, Edwin R., and C. Horsely, assignors to The Engeln Electric Company, Cleveland, Ohio. Applicator-securing means. 1,694,649; Dec. 11.
Good, Daniel, F., assignor to Frick Company, Waynesboro, Pa. Casing for antifriction bearing. 1,695,146; Dec. 11.
Good Inventions Co. (See Good, John, assignor.)
Good, John, Garden City, assignor to Good Inventions Co., New York, N. Y. Combustion engine. 1,6951,186; Dec. 11.
Goodall, Howard W., Aldan, and J. W. Walsh, Philadelphia, Pa. Hose clamp. 1,694,538; Dec. 11.
Goodman, Patrick, Brooklyn, N. Y. Gas-main stopper. 1,695,187; Dec. 11.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodwin, Alan M., Boston, Mass., assignor to General Electric Company. Auxiliary control means for prime movers. 1,694,975; Dec. 11.
Goodwin, Henry L., New York, N. Y. Cooking vessel. 1,694,378; Dec. 11.
Goodwin, Joseph W., et al. (See Muckly, Floyd S., assignor.)
Goodyear Tire & Rubber Company, The. (See Clifford, Albert M., assignor.)
Goodyear Tire & Rubber Company, The. (See Haase, Jorgan L., assignor.)
Goodyear Tire & Rubber Company, The. (See Kurtz, Stewart S., jr., assignor.)
Goodyear Tire & Rubber Company, The. (See Templin, Ellis W., assignor.)
Goodyear Tire & Rubber Company, The. (See Van Rennes, Cornelis, assignor.)
Goodyear-Zeppelin Corporation. (See Brunner, Eugen, assignor.)
Goodyear Zeppelin Corporation. (See Liebert, H. R., and Fischer, assignors.)
Göpel, Carl, Halle-on-the-Saale, Germany. Device for dispowdering confectionery. 1,694,590; Dec. 11.
Gordon, Chester S., New York, N. Y., assignor to American Telephone and Telegraph Company. Insulator. 1,694,415; Dec. 11.
Gorlen Company. (See Dalrymple, William P., assignor.)





Gorsuch, George J., assignor to Hickok Manufacturing Company, Rochester, N. Y. Machine for beveling the edges of leather or similar material. 1,694,379; Dec. 11.
Gould, Rufus, assignor of one-half to Postal Telegraph-Cable Company, New York, N. Y. Anchor rod.
Gouldbourn, Joseph. (See Ricks, F., and Gouldbourn.) 1,694,739; Dec. 11.
Gouldbourn, Joseph, B. P. Cooper, and H. E. Elliott, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Splitting machine. 1,694,441; Dec. 11.
Grady, William H., Louisville, Ky., assignor, by mesne assignments, to American Creosoting Company. Dumping table. 1,694,591; Dec. 11.
Graf, Franz, Baden, Switzerland. Electrically heated tile stove. 1,694,539; Dec. 11.
Graf-Lite Corporation. (See Graf, Richard, assignor.)
Graf, Richard, South Bend, Ind., assignor to Graf-Lite Corporation, Chicago, Ill. Lamp. 1,694,592; Dec. 11.
Graf, Richard, South Bend, Ind., assignor to Graf-Lite Corporation, Chicago, Ill. Lamp. 1,694,593; Dec. 11.
Graham, Lucy J., New York, N. Y., assignor to Crane Co., Chicago, Ill. Combination lavatory and dressing table. Des. 77,151; Dec. 11.
Grand Rapids Brass Company. (See Roedding, Gordon E., assignor.)
Grasselli Dyestuff Corporation. See Rabe, P., Stötter, Wenk, and Schepss, assignors.)
Grasselli Dyestuff Corporation. (See Wagner, Hermann, assignor.)
Grasselli Dyestuff Corporation. (See Wagner, H., Eichwede, and Fischer, assignors.)
Gravel, David, assignor to The Standard-Coosa-Thatcher Company, Chattanooga, Tenn. Slub catcher. 1,695,236; Dec. 11.
Green, Ellis, assignor of one-half to L. A. Green, Tulsa, Okla. Tubing support. 1,695,093; Dec. 11.
Green, L. A. (See Green, Ellis, assignor.)
Greenbaum, Leo, Far Rockaway, E. Van Hoofstadt, Oceanside, and C. Gustavson, Brooklyn, N. Y., assignors to Lion Match Company, Inc. Book-match machine. 1,694,505; Dec. 11.
Greene, Bartholomew, H., Sebring, Ohio. Kiln. 1,694,650; Dec. 11.
Greene, Edward F., New York, N. Y., assignor to Revere Rubber Company, Chelsea, Mass. Combined sole and heel. Des. 77,152; Dec. 11.
Greist Manufacturing Company, The. (See Hinman, George L., assignor.
Grillet, Nicolas B., Neuilly, assignor to Société pour la Fabrications de la Soie "Rhodiaseta," Paris, France. Apparatus for the manufacture of artificial silk. 1,695,094; Dec. 11.
Griscom-Russell Company, The. (See Price, Joseph, assignor.)
Griswold Manufacturing Company, The. (See Griswold, Roger W., assignor.)
Griswold, Roger W., assignor to The Griswold Manufacturing Company, Erie, Pa. Stove damper. 1,694,740; Dec. 11.
Grobman, Harold, Brooklyn, N. Y. Lamp shade. Des. 77,153; Dec. 11.
Gruenfeldt, Emil. (See Peters, Frederick W., assignor.)
Gruhl, Edwin. (See Ruhmer, Ernst, assignor.)
Gudmundsen, Abraham, American Fork, and A. Gudmundsen, Salt Lake City, Utah. Beet cleaner. 1,694,817; Dec. 11.
Gudmundsen, Austin. (See Gudmundsen, Abraham and A.)
Guggenheim Brothers. (See Burdick, Charles L., assignor.)
Gulberson Corporation, The. (See Peters, Archie R., assignor.)
Guillaume, Paul M., Paris, France, assignor to Bourjois, Inc., N. Y. Receptacle for powder or rouge. 1,694,818; Dec. 11.
Gunderman, Lester S., Pittsburgh, Pa. Game. 1,694,819; Dec. 11.
Gustafson, Benjamin F., Redfield, S. Dak. Seed-dusting apparatus. 1,694,442; Dec. 11.
Gustavson, Charles. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)
Guthrie, William H., Atlantic City, N. J. Tool for removing headlight rims. 1,694,443; Dec. 11.
Gyger, Adolf, Riverside, Calif. Mechanical doll. 1,694,976; Dec. 11.
Haase, Jorgen L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Machine for manufacturing solid tires. 1,694,876; Dec. 11.
Hackmann, Frederick, deceased, Chicago, Ill.; I. R. Hackmann, administratrix. Track liner. 1,694,651; Dec 11.
Hackmann, Ida R., administratrix. (See Hackmann, Frederick.)
Hahl, Hans, and W. Kropp, Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Vanadium compound. 1,695,147; Dec. 11.
Haines, William T., Mountain Lakes, and R. W. Harper, East Orange, N. J.; said Haines assignor to American Telephone and Telegraph Company and said Harper assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone exchange system. 1,695,043; Dec. 11.
Hager, Almiron A., Wellington, Wash. Locomotive governor. 1,694,652; Dec. 11.
Hagner, Lewis, jr., Norristown, Pa. Rim contractor. 1,694,741; Dec. 11.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Circuit-controlling device and system employing the same. 1,694,977; Dec. 11.
Hall Draft Gear Corporation. (See Sherman, C. W., and Hall, assignors.)
Hall, Edward A., Baltimore, Md. Apparatus for harvesting artificial ice. 1,694,742; Dec. 11.
Hall, Ernest A., assignor to The Hall Manufacturing Company, Toledo, Ohio. Valve hone. 1,694,705; Dec. 11.
Hall, George N., Los Angeles, Calif. Mechanical toy. 1,695,095; Dec. 11.
Hall, Joseph. (See Sherman, C. W., and Hall.)
Hall Manufacturing Company, The. (See Hall, Ernest A., assignor.)
Hall, Ray E., Evanston, assignor to Hall Research Corporation, Chicago, Ill. Electrolyte and electrolytic apparatus. 1,694,653; Dec. 11.
Hall Research Corporation. (See Hall, Ray E., assignor.)
Hallmann, Karl, Munich, Germany. Increasing the electrical conductivity and the flexibility of metals or alloys. 1,695,044; Dec. 11.
Halvorsen, Birger F., assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Purification of gases to be used in the production of ammonia. 1,694,594; Dec. 11.
Hamburger, Aron, London, England. Color photography and the like. 1,695,045; Dec. 11.
Hamilton, Paul H., assignor to The Sands Manufacturing Company, Cleveland, Ohio. Valve. 1,694,777; Dec. 11.
Haming, Lawrence J. (See Bode, W. O., and Haming.)
Hammond, John H., jr., Gloucester, Mass. Method of and system for electrical signaling. 1,694,654; Dec. 11.
Hammond, John H., jr., Gloucester, Mass. System and method of production and reception of continuous oscillations. 1,694,655; Dec. 11.
Hampden Glazed Paper & Card Company. (See Fowler, William S., assignor.)
Hanovia Chemical and Manufacturing Company. (See Robinson, F. W., and Knapp, assignors.)
Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Chuck for crank handles. 1,694,380; Dec. 11.
Hansen, Sinius M. (See Johnson, L. E., Hansen, and McTarnahan.)
Hansen, John W., Chicago, Ill. Vehicle towing device. 1,695,096; Dec. 11.
Hanson, Albert J., Arlington, assignor to American Metallurgical Corporation, Boston, Mass. Pot furnace. 1,694,416; Dec. 11.
Hapgood, Cyrus H., Nutley, N. J., assignor to The De Laval Separator Company, New York, N. Y. Controlling the feed of gasoline engines. 1,694,469; Dec. 11.
Harper, Philip S., Chicago, Ill. Valve. 1,694,978; Dec. 11.
Harper, Robert W. (See Haines, W. T., and Harper.)
Harr, Karl, Horde, Germany. Sintered magnesite brick and making the same. 1,694,540; Dec. 11.
Harrell, Walter A., Richland, Kans. Kafir-corn header. 1,694,852; Dec. 11.
Harrington, Edward L., assignor to G. H. Williams Company, Erie, Pa. Floor scraper. 1,694,417; Dec. 11.
Harris, Leonard B., New York, N. Y. Apparatus for power transmission. 1,694,938; Dec. 11.
Harris, Neal, San Francisco, Calif. Rust-resisting can. 1,694,820; Dec. 11.
Harrison, Dewey L., Fort Smith, Ark. Electric signal-transmitting switch. 1,695,148; Dec. 11.
Harry, George Y., Wapakoneta, Ohio. Honey extractor. 1,694,541; Dec. 11.
Hart, Milton H., Hartford, Conn. Hose nozzle. 1,695,097; Dec. 11.
Harte, James A. (See Witter, W. D., and Harte.)
Hartman, George H., Cleveland, Ohio. Apparatus for elevating popped corn and delivering it. 1,694,381; Dec. 11.
Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,694,778; Dec. 11.
Hatcher, Manning F. (See Klooz, L. F., and Hatcher.)
Haughton Elevator and Machine Co., The. (See Ohler, Frank L., assignor.)
Hawthorne, Louis A., Hillside, assignor to Anchor Post Fence Company, Garwood, N. J. Gate hinge. 1,694,914; Dec. 11.
Heany, John A., assignor to Heany Laboratories, Inc., New Haven, Conn. Air spring. 1,694,821; Dec. 11.
Heany Laboratories, Inc. (See Heany, John A., assignor.)
Heat Research and Service Corporation, The. (See Deppeler, John H., assignor.)
Hebebrand, George H. (See Neal, B., and Hebebrand.)
Heberlin & Co. A. G. (See Bodmer, Albert, assignor.)
Hedden, Vern D., Santa Barbara, Calif. Constructing buildings. 1,694,542; Dec. 11.
Heftler, Victor R., Detroit, Mich. Assembling filter-stack units. 1,694,939; Dec. 11.
Heggem, Alfred G., Tulsa, Okla. Valve. 1,695,014; Dec. 11.
Heidt, Guilelmus V., Governors Island, N. Y. Hat net. Des. 77,154; Dec. 11.
Hein, Julius, Lakewood, Ohio. Machine for shaping the ends of hollow ducts. 1,694,685; Dec. 11.
Heller, David, New York, N. Y. Flexible seam fastener. 1,694,915; Dec. 11.
Hemingway, Wilson, jr., Melrose Park, Pa., assignor to The Electrolock Manufacturing Company, Vicksburg, Miss. Locking means for automobiles. 1,694,382; Dec. 11.

Hencken, John K., Brooklyn, N. Y. Highway buildings. 1,694,383; Dec. 11.
Henkel, Fay M., New Rochelle, N. Y. Portable bench saw. 1,695,188; Dec. 11.
Heppes, Otto A., La Grange, Ill., assignor to The Flintkote Company, Boston, Mass. Roofing. 1,694,418; Dec. 11.
Herman, Henry F., Chappaqua, assignor to Straitline Radio Corporation, New York, N. Y. Electrical condenser and indicating means. 1,694,384; Dec. 11.
Hershey Manufacturing Company. (See Hershey, Orville S., assignor.)
Hershey, Orville S., assignor to Hershey Manufacturing Company, Chicago, Ill. Automobile lock. 1,694,506; Dec. 11.
Herz, Alfred, Chicago, Ill. Screen. 1,694,706; Dec. 11.
Herz Bed Company. (See Herz, Gene, assignor.)
Herz, Gene, assignor to Herz Bed Company, Chicago, Ill. Bed. 1,694,940; Dec. 11.
Hess, Edward C., Pittsburgh, Pa., assignor of one-half to A. L. Maass, Baltimore, Md. Shoe protecting and handling device. 1,694,853; Dec. 11.
Heywood-Wakefield Company. (See Brown, Charles A., assignor.)
Hickman, Joseph T., Washington, D. C. Dual-control apparatus. 1,694,916; Dec. 11.
Hickok Manufacturing Company. (See Gorsuch, George J., assignor.)
Hicks, Harlie H., assignor to General Motors Corporation, Detroit, Mich. Making pressed-steel hubs. 1,694,779; Dec. 11.
Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Bottle-opening implement. 1,695,098; Dec. 11.
Hight, Eugene S., Peoria, Ill. Variable-speed device. 1,695,099; Dec. 11.
Hill, George E. C., Niagara Falls, N. Y. Toothbrush holder. 1,694,941; Dec. 11.
Hinman, George L., New Haven, Conn., assignor to The Greist Manufacturing Company. Strainer. 1,694,743; Dec. 11.
Hippensteel, Claude L., Elizabeth, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, New York, N. Y. Testing apparatus. 1,695,046; Dec. 11.
Hobart, Arthur H., Honolulu, Hawaii. Cementing wells. 1,694,419; Dec. 11.
Hockley, Horace R., and H. B. White, Slough, England, assignors to The National Pneumatic Company, New York, N. Y. Apparatus for operating and controlling the doors of tramway or like vehicles. 1,694,543; Dec. 11.
Hodgson, William W., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Metal containers. 1,695,100; Dec. 11.
Hoffman, Irving, Philadelphia, Pa. Reversible back for upholstered furniture. 1,695,101; Dec. 11.
Hoffman, Irving, Philadelphia, Pa. Bearing for reversible furniture backs. 1,695,102; Dec. 11.
Hoffman, Michael, Brooklyn, N. Y. Indicator for motion-picture-projection apparatus. 1,694,942; Dec. 11.
Hoffman, Michael, Brooklyn, N. Y. Indicator for motion-picture-projection apparatus. 1,694,943; Dec. 11.
Hoge, James B., Cleveland, Ohio, and E. E. Clement, assignors to E. F. Colladay, Washington, D. C. Combined radio telephone and power-distributing system. 1,695,171; Dec. 11.
Holmes Disappearing Bed Company. (See Ellsworth, Ross J., assignor.)
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Mining apparatus. 1,694,780; Dec. 11.
Holmes, Thomas E., Glasgow, Scotland. Rolling mill. 1,694,854; Dec. 11.
Honey-Butter Company. (See Burton, E. F., and Montgomery, assignors.)
Hood Rubber Company. (See Glidden, A. A., Knowland, and Rich, assignors.)
Hook, Arley U., New Washington, Ohio. Thermoelectric switch. 1,695,103; Dec. 11.
Horix, Carl, Chicago, Ill. Fountain-pen desk set. 1,694,918; Dec. 11.
Horix, Carl, Chicago, Ill. Expansion belt. 1,694,944; Dec. 11.
Horsley, Caperton. (See Goldfield, E. R., and Horsley.)
Horton, Joseph W., Bloomfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical measurements. 1,695,047; Dec. 11.
Hose, Henry G., Brooklyn, N. Y. Toy. 1,694,917; Dec. 11.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Closure for sifter-top cans. 1,694,781; Dec. 11.
Howard, Jesse C., Columbus, Ohio. Valve. 1,694,595; Dec. 11.
Howse, Curtis L., Detroit, Mich., assignor to A. W. Cash Company. Pressure-regulation means. 1,694,507; Dec. 11.
Hudson Motor Car Company. (See Fekete, Stephen I., assignor.)
Huetten, Peter E., assignor to Simmons Company, Kenosha, Wis. Framing for metal furniture. 1,694,656; Dec. 11.
Hughes, Henry L., Co. Inc. (See Sherman, William T., assignor.)
Hughes Tool Company. (See Scott, Floyd L., assignor.)
Hughes Tool Company. (See Scott, F. L., and Wellensiek, assignors.)
Hunt, Arthur W., Kansas City, Mo. Furnace-door opener. 1,694,686; Dec. 11.
Huntley, Burton L., assignor to Speedpak Dispenser Corporation, Minneapolis, Minn. Carton. 1,695,104; Dec. 11.
Hursh, Eva Z., Detroit, Mich. Combination trunk. 1,694,470; Dec. 11.
Huston, Roy, Seattle, Wash. Fence-wire spacer and holder. 1,695,149; Dec. 11.
Hutchings, Le Roi E., Tonawanda, assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y. Stock-indicating device. 1,694,877; Dec. 11.
Hydraulic Brake Company. (See Floraday, Burton S., assignor.)
Hyman, Charles, Gary, Ind. Automatic control means for quenching coke. 1,695,105; Dec. 11.
I. G. Farbenindustrie Aktiengesellschaft. (See Wietzel, Gustav, assignor.)
Industrial Research Corporation. (See Edwards, Henry J., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Lear, Earl B., assignor.)
Ingersoll-Rand Company. (See Tuttle, Grover G., assignor.)
Ingraham E., Co., The. (See Carlson, Elof L., assignor.)
Inman, Edward R., Franklin, Pa. Section liner. 1,694,385; Dec. 11.
Innes, William, Monkseaton, England, assignor to Westinghouse Electric and Manufacturing Company. Turbine-governing system. Re17,161; Dec. 11.
International Corset Company. (See Ulman, Rosanna D., assignor.)
International Time Recording Company of New York. (See Geiger, Edward F., assignor.)
Irmscher, Hans. (See Zukor, A., and Irmscher.)
Irons, George C., La Verne, Calif. Automobile door pocket. 1,694,855; Dec. 11.
Ives, Herbert E., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated. Picture transmission. 1,695,048; Dec. 11.
Jackson, John G., Chatham, Ontario, Canada. Storage battery. 1,694,856; Dec. 11.
Jacobi, Norbert J., Electra, Tex. Oil saver. 1,694,471; Dec. 11.
Jacobs, Frank, Prairie, Idaho. Air and steam line coupler. 1,694,744; Dec. 11.
Jacobsen, Emil. (See Bascom, H. M., and Jacobsen.)
Jacobsen, Emil, Port Washington, and A. B. Sperry; said Jacobsen assignor to American Telephone and Telegraph Company and said Sperry assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone exchange system. 1,695,049; Dec. 11.
Jacques, Raynaldo P., Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y. Flexible tubular conduit. 1,695,263; Dec. 11.
Jaeger, Alphons O., Crafton, assignor, by mesne assignments, to The Selden Research & Engineering Corporation, Pittsburgh, Pa. Base-exchange body. 1,694,620; Dec. 11.
James, Charles L., San Francisco, Calif. Razor-blade sharpener. 1,694,544; Dec. 11.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 77,155; Dec. 11.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Clamp plate. Des. 77,156; Dec. 11.
Jandus, Herbert S., and J. R. Morgan, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Plate for vehicle bumpers. Des. 77,157; Dec. 11.
Jeffrey Manufacturing Company, The. (See Liggett, William K., assignor.)
Jenness, Leslie G., Leonia, N. J. Dry-cell element and making the same. 1,694,919; Dec. 11.
Jensen, Louis, assignor to United Autographic Register Company, Chicago, Ill. Filing mechanism for autographic registers. 1,694,782; Dec. 11.
Jett, George C., assignor to Runge Corn Harvester Company, Milwaukee, Wis. Distributor. 1,694,657; Dec. 11.
Johansen, Jens M., Omaha, Nebr. Combined milking stool and bucket. 1,694,545; Dec. 11.
Johnson & Bassett, Inc. (See Riley, T. H., and Flint, assignors.)
Johnson, Chester A., assignor to Chicago Jefferson Fuse & Electric Company, Chicago, Ill. Outlet box. 1,694,707; Dec. 11.
Johnson, Gordon S., Wheaton, assignor to General Highways System, Incorporated, Chicago, Ill. Outdoor advertising sign. 1,695,106; Dec. 11.
Johnson, Lawrence E., Melrose, S. M. Hansen, Lynn, and J. T. McTarnahan, Brighton; said Hansen and said Johnson, assignors, by mesne assignments, to Victor Shoe Machinery Company, Lynn, Mass. Pump. 1,694,783; Dec. 11.
Johnson, Olaf A., Minneapolis, Minn. Scale indicator. 1,694,658; Dec. 11.
Jones, Fred A., Canton, Ohio. Rotary drier. 1,694,708; Dec. 11.
Jones, Richard G., Hynes, Calif. Liquid-feed control. 1,694,621; Dec. 11.
Jorgensen, Bernhardt, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 1,694,444; Dec. 11.
Jorgensen, Bernhardt, Beverly, Mass., assignor to United Oil Company of California, Los Angeles, Calif. Decolorizing kerosene, gasoline, and similar light petroleum distillates. 1,695,251; Dec. 11.



Joselowitz, Harry A., Minneapolis, Minn. Folding bed. 1,694,420; Dec. 11.
Joseph, Edward L., London, England. Filter for air and other gases. 1,695,237; Dec. 11.
Judd, H. L., Company. (See Long, George M., assignor.)
Juhasz, John, New York, N. Y. Carburetor. 1,694,386; Dec. 11.
Kahl, Franz, assignor of six-tenths to W. Landau, Berlin, Germany. Therapeutic implement. 1,695,107; Dec. 11.
Kalenoff, Godel, Brooklyn, N. Y. Tooth cleaner. 1,695,238; Dec. 11.
Kamrath, Herbert G., assignor to A C Spark Plug Company, Flint, Mich. Air cleaner. 1,694,784; Dec. 11.
Kane, Daniel H., Dayton, Ohio. Milk-bottle closure. 1,695,190; Dec. 11.
Kapnek, William S., Philadelphia, Pa. Booth construction. 1,694,920; Dec. 11.
Karr, Francis, Holland, Mich. Pillow. 1,694,547; Dec. 11.
Kaufmann, August H. (See Kaufmann, Herman H., and A. H.)
Kaufmann, Herman H., and A. H., Cascade, Wis. Cheese formula. 1,694,921; Dec. 11.
Keene, John W., Westport, Conn. Water skate. 1,695,191; Dec. 11.
Keeran, Charles R., Evanston, assignor to Keeran Products Company, Chicago, Ill. Mechanical pencil. 1,694,945; Dec. 11.
Keeran Products Company. (See Keeran, Charles R., assignor.)
Keith, Irving L. (See Sawyer, Albert F., assignor.)
Kelleher, Thomas J., Chicago, Ill. Machine for closing the fold of a sheet of metal. 1,694,596; Dec. 11.
Kelleher, Thomas J., Chicago, Ill. Electrical sheet-metal cutter. 1,694,597; Dec. 11.
Kelly, William M., Westfield, assignor to American Type Founders Company, Jersey City, N. Y. Sheet feeder. 1,694,745; Dec. 11.
Kelso, William. (See Regan, W. J., and Kelso.)
Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,695,015; Dec. 11.
Kelvin Engineering Co. (See Merlis, Ira, assignor.)
Kempf, Herman H., New York, N. Y. Time switch. 1,694,472; Dec. 11.
Kendall, Burton W., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling. 1,694,473; Dec. 11.
Kennedy, Edward, New York, N. Y. Pipe joint. 1,694,822; Dec. 11.
Keough, Robert E., Montreal, Quebec, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Rail anchor. 1,694,878; Dec. 11.
King, George A., assignor to Scovill Manufacturing Company, Waterbury, Conn. Pin-attached button. 1,695,252; Dec. 11.
Kinnear, Delamar C., assignor to The American Brass Company, Waterbury, Conn. Drawing apparatus. 1,694,922; Dec. 11.
Kivlin, Alfred P., New York, N. Y., assignor to H. J. Forster, trustee of the American Railway Association. Method of and apparatus for crating furniture. 1,694,508; Dec. 11.
Klemperer, Wolfgang, Akron, Ohio, assignor to Luftschiffbau Zeppelin Gesellschaft mit beschraenkter Haftung, Friedrichshafen, Bodensee, Germany. Tensiometer. 1,694,509; Dec. 11.
Klooz, Louis F., and M. F. Hatcher, Pittsburgh, Pa. Window fastener. 1,695,108; Dec. 11.
Kluftinger, Hermann, Kempten, Germany. Drawing frame. 1,694,510; Dec. 11.
Knapp Brothers Manufacturing Co. (See Peck, P. D., and Thomas, assignors.)
Knapp Brothers Manufacturing Company. (See Thomas, Wingate S., assignor.)
Knapp, Kenneth V. (See Robinson, F. W., and Knapp.)
Knowland, Thomas M. (See Glidden, A. A., Knowland, and Rich.)
Knowlton, Norwood H., Rockport, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-pressing machine. 1,694,445; Dec. 11.
Kole, Lessing L., Milwaukee, Wis. Vanity case adapted to separate compacts of contrasting shades. 1,694,946; Dec. 11.
Koppers Company, The. (See Sperr, Frederick W., jr., assignor.)
Kosloff, Rose, Jamaica, N. Y. Waterproof baby pants. 1,695,109; Dec. 11.
Kotzebue, Meinhard H., Tulsa, Okla. Vapor extractor. 1,695,192; Dec. 11.
Krall, Reginald F., assignor to Woodall-Duckham (1920) Limited, London, England. Apparatus for separating solids from liquids. 1,695,193; Dec. 11.
Krick, George W., assignor to Barker Bros., Incorporated, Los Angeles, Calif. Extension-leaf construction for permanent-top tables. 1,695,110; Dec. 11.
Kronowit, Isidor S., New York, N. Y. Toy bank. Des. 77,158. Dec. 11.
Kropp, Walter. (See Hahl, H., and Kropp.)
Kruse, Mads, London, England. Holding and locking spare wheels and the like on motor vehicles. 1,695,016; Dec. 11.
Kruse, Peter, assignor to E. W. Bliss Company, Brooklyn, N. Y. Blank feeding and positioning mechanism for can-body-making machines. 1,694,387; Dec. 11.
Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,159; Dec. 11.
Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,160; Dec. 11.
Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,161; Dec. 11.
Kuckuck, Heinrich, Bremen, Germany. Precision bore and producing same. 1,695,017; Dec. 11.
Kulik, Irving, Brooklyn, N. Y. Apparatus for filling root canals. 1,694,857; Dec. 11.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,694,923; Dec. 11.
Kurtz, Stewart S., jr., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Treating air bags. 1,694,879; Dec. 11.
Kusterle, Frank, Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Crib and adjustable spring-bottom support therefor. 1,694,650; Dec. 11.
Lacene Manufacturing Company. (See Cogswell, Leander A., assignor.)
Lafferty, Jacob W., assignor of one-half to J. M. Lafferty, Mechanicsburg, Ohio. Door for hogpens. 1,694,598; Dec. 11.
Lafferty, John M. (See Lafferty, Jacob W., assignor.)
Lafite, Roger G., Kansas City, Mo. Brush holder for electric generators or motors. 1,694,709; Dec. 11.
Lahousse, Joseph E. G., Lyon, assignor to Societe pour la Fabrication de la Soie "Rhodiaseta," Paris, France. Apparatus for the manufacture of artificial silk. 1,695,111; Dec. 11.
Lainer, Abraham A., Worcester, Mass. Holding and clamping device. 1,694,474; Dec. 11.
La Lux Manufacturing Company. (See Underwood, Western, assignor.)
Lambie, James M. (See Ross, D. W., and Lambie.)
Lammering, Dietrich. (See Zellmann, R., and Lammering.)
Lamoureux, Georges, Puteaux, France. Carburetor. 1,695,112; Dec. 11.
Lancia, Vincenzo, Turin, Italy. Motor car. 1,694,546; Dec. 11.
Landahl, Eugene E., Chicago, Ill. Drive and conveyer chain. 1,694,746; Dec. 11.
Landau, Willi. (See Kahl, Franz, assignor.)
Landis Machine Company. (See Shearer, Harry T., assignor.)
Landon, Archer A., Buffalo, N. Y. Dry-heat bath cabinet. 1,694,858; Dec. 11.
Langdon, Jesse D., Los Angeles, Calif. Airship. 1,694,880; Dec. 11.
Lange, Otto, Chicago, Ill. Revolving teeter. 1,694,785; Dec. 11.
Langton, Edmond W., and A. G. Dawson, Richmond, Va. Self-locking cotter pin. 1,695,113; Dec. 11.
Lansinger, John, Clarks Summit, Pa. Liquid-pressure brake. 1,695,194; Dec. 11.
Larsen, John E., Millis, Mass. Attachment for stringed instruments. 1,694,786; Dec. 11.
Larson, David C. (See Lindquist, D. L., Dunn, and Larson.)
Larson, David C., Yonkers, N. Y., assignor to Otis Elevator Company, Jersey City, N. J. Automatic elevator. 1,694,823; Dec. 11.
Laugaudin, Eugène J., Paris, France. Fluid-tight piston. 1,694,859; Dec. 11.
Lea, Charles, assignor to The Automatic Merchandizer, Inc., Boston, Mass. Vending machine. 1,694,599; Dec. 11.
Lea, Charles, Milton, assignor to Shawmut Engineering Company, Boston, Mass. Spool-retarding device for tube frames. 1,694,881; Dec. 11.
Lear, Earl B., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for rock drills. 1,694,882; Dec. 11.
Leather Makers' Process Company. (See De Graff, Ellis A., assignor.)
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Jig for use in making automobile bodies. 1,694,475; Dec. 11.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Curtain support for automobile doors. 1,694,824; Dec. 11.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile door. 1,694,825; Dec. 11.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Automobile body. 1,694,883; Dec. 11.
Lee, Howard S., Peabody, assignor to J. Marsh, Danvers, Mass. Electric resistance heating element. 1,694,600; Dec. 11.
Lee, Roger K. (See Summers, C. E., and Lee.)
Lefebure, Victor, London, England. Rubber flooring. 1,694,476; Dec. 11.
Le Floch, Georges, Paris, France. Manufacture of dyestuffs from naphthidine. 1,694,884; Dec. 11.
Leisy, Clifford J., assignor to The Glenn L. Martin Company, Cleveland, Ohio. Airplane. 1,695,114; Dec. 11.
Lenander, Nils E., assignor to Orkla Grube-Aktiebolag, Lokken Verk, Norway. Recovery of zinc from zinc-bearing solutions. 1,694,710; Dec. 11.

Lentz, Rea D., assignor of one-fourth to R. Mitchell, Los Angeles, Calif. Automatically-operating mechanism for elevating liquids. 1,694,421; Dec. 11.

Leslak, Charles C., Fullerton, Nebr.. Paintbrush. 1,694,860; Dec. 11.

Leuchtenberg, William E., New York, N. Y. Removing hydrogen sulphide from coal or water gases. Re17,162; Dec. 11.

Le Van, Nelson, Battle Creek, Mich. Clutch. 1,695,150; Dec. 11.

Levine, Harry D., Philadelphia, Pa. Manufacture of Javelle water. 1,694,711; Dec. 11.

Levy, Henri G., assignor to The Electric Manufacturing Company, San Francisco, Calif. Electric hair drier. Des. 77,162; Dec. 11.

Leytens, Marcel, Antwerp, Belgium. Spring suspension for lorries. 1,694,422; Dec. 11.

Liebert, Herman R., and W. Fischer, assignors to Goodyear Zeppelin Corporation, Akron, Ohio. Landing equipment for airships. 1,694,861; Dec. 11.

Liggett, William K., assignor to The Jeffrey Manufacturing Company, Columbus, Ohio. Crushing machine. 1,694,423; Dec. 11.

Lincoln Manufacturing Company. (See McFadden, Glenn E., assignor.)

Lindgren, Bror J., assignor to Niagara Machine & Tool Works, Buffalo, N. Y. Side-seaming press. 1,694,862; Dec. 11.

Lindquist, Ernest W., Helsingfors, Finland. Rotary screen for screening pulp and paper stock. 1,694,622; Dec. 11.

Lindquist, David L., Hartsdale, N. Y., E. L. Dunn, East Orange, N. J., and D. C. Larson, Yonkers, N. Y., assignors to Otis Elevator Company, Jersey City, N. J. Elevator system. 1,694,712; Dec. 11.

Lindsay, Harvey B., Evanston, Ill., assignor to Dry Zero Corporation, Wilmington, Del. Thermal insulating structure. 1,694,947; Dec. 11.

Lion Match Company. (See Greenbaum, L., Van Hoofstadt, and Gustavson, assignors.)

Liquid Veneer Corporation. (See Schaedel, Henry V., assignor.)

Little, William F., Nepperhan Heights, N. Y. Tail light for automobiles. 1,694,660; Dec. 11.

Lockhart, James, assignor to The Coe Manufacturing Company, Painesville, Ohio. Conveyer. 1,695,115; Dec. 11.

Logan, William H. (See Parker, Charles A., assignor.)

Long, George M., Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,163; Dec. 11.

Long, George M., Boston, Mass., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,164; Dec. 11.

Long, George W. H., Indianapolis, Ind. Dirigible mounting and control mechanism therefor. 1,694,477; Dec. 11.

Lord, Hugh C., Erie, Pa. Universal joint. 1,695,116; Dec. 11.

Lowe, Russell E., assignor to Doherty Research Company, New York, N. Y. Bonded refractory. 1,694,924; Dec. 11.

Löwenstein, Harry F., assignor to E. F. Colladay, Washington, D. C. Radio receiving station. 1,695,175; Dec. 11.

Luftschiffbau Zeppelin Gesellschaft mit beschraenkter Haftung. (See Klemperer, Wolfgang, assignor.)

Lum, George R., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Diaphragm for a loud speaker. Des. 77,165; Dec. 11.

Lundius, Eric R., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Pulsing system. 1,695,050; Dec. 11.

Maass, Arthur L. (See Hess, Edward C., assignor.)

MacChesney, Chester M., and R. H. Norton, assignors to Acme Steel Company, Chicago, Ill. Electric welding machine. 1,694,512; Dec. 11.

MacFarlane, John, Riverside, Calif. Clothes drier. 1,695,151; Dec. 11.

Macildowie, John C., assignor to Asbestos Wood & Shingle Co., Nashua, N. H. Finishing the surfaces of bonded asbestos and the like and resulting product. 1,695,253; Dec. 11.

MacLean, William G., jr., Arnprior, Ontario, Canada. Animal-mouth tongs. 1,694,713; Dec. 11.

Magann, Merritt W., assignor to St. Louis Steel Ball Corporation, St. Louis, Mo. Ball-forming machine. 1,695,195; Dec. 11.

Maina, Joseph. (See Brown, W. S. F., and Maina.)

Marchus, Amos S., Oakland, Calif. Combination air nozzle and gauge. 1,695,018; Dec. 11.

Marcuson, Henry, Chicago, Ill. Coffee urn. 1,694,548; Dec. 11.

Marcy, Frank E., San Diego, Calif. Casing for mechanical exercisers. Des. 77,166; Dec. 11.

Markus, Peter, Kansas City, Mo. Inflatable life preserver. 1,694,714; Dec. 11.

Marrison, Warren A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Translating circuits. 1,695,051; Dec. 11.

Marsh, Jasper. (See Lee, Howard S., assignor.)

Marten, Elmer W., Los Angeles, assignor to Monolith Hollow Wall Company, San Diego, Calif. Method of and apparatus for forming hollow concrete walls. 1,694,826; Dec. 11.

Martin, Glenn L., Company, The. (See Leisy, Clifford J., assignor.)

Martin, Perry S., Harrisonburg, Va. Automatic temperature-controlling device for incubators. 1,694,518; Dec. 11.

Martin, Robert J., North Asbury Park, assignor to B. M. C. Patent Company, Trenton, N. J. Control mechanism for radio apparatus. 1,694,601; Dec. 11.

Martindale, Charles A., assignor to The Reliable Machine Company, Anderson, Ind. Oil burner. 1,695,152; Dec. 11.

Maschinenfabrik Augsburg-Nuernberg Aktiengesellschaft. (See Geiger, Josef, assignor.)

Mason, Arthur R., and O. C. Failing, Medford, Oreg., assignors to Accurate Gasoline Recording Company. Safety means for fluid-dispensing pumps. 1,694,827; Dec. 11.

Massey-Harris Company. (See Carlton, James A., assignor.)

Matheson, William A., assignor to Roll-A-Way Bed Corporation, Chicago, Ill. Hinge. 1,694,885; Dec. 11.

Mathieu, Albert E., Natick, Mass. Lining for boots and shoes. 1,694,388; Dec. 11.

Matteson, George F., Rockyhill, assignor to The F. B. Shuster Company, New Haven, Conn. Wireworking machine. 1,695,255; Dec. 11.

Mattingly, Edward H., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Railway car. 1,694,424; Dec. 11.

McArdle, Michael W., Chicago, Ill. Razor strop. 1,694,389; Dec. 11.

McArdle, Michael W., Chicago, Ill. Contact device for electrically-energized implements. 1,694,715; Dec. 11.

McCartie, Thomas, Newark,, N. J. Electrolyte level gauge. 1,694,687; Dec. 11.

McClatchie, John M., assignor to The Borden Company, New York, N. Y. Apparatus for testing cans for leakage. 1,694,828; Dec. 11.

McClellan, Samuel A., Sallneville, Ohio. Window. 1,694,886; Dec. 11.

McColley, Robert C., Indianapolis, Ind. Windshield wiper. 1,694,390; Dec. 11.

McConway & Torley Company, The. (See Kelso, William, assignor.)

McConway & Torley Company, The. (See Regan, W. J., and Kelso, assignors.)

McCulloch, J. J., et al. (See Moss, G. R., and Parks, assignors.)

McCurdy, Ralph G., Englewood, and P. W. Bixe, Rutherford, N. J., assignors to American Telephone and Telegraph Company. Electrical testing system. 1,694,425; Dec. 11.

McElroy, David W., assignor of one-half to G. E. Boggs, Kaufman, Tex. Water head for drilling rigs. 1,695,019; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture canopy ring or the like. Des. 77,167; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture band or similar article. Des. 77,168; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture arm or the like. Des. 77,169; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture arm or the like. Des. 77,170; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture bracket or similar article. Des. 77,171; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture band or the like. Des. 77,172; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 77,173; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 77,174; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 77,175; Dec. 11.

McFadden, Glenn E., assignor to Lincoln Manufacturing Company, Detroit, Mich. Lighting-fixture wall bracket or the like. Des. 77,176; Dec. 11.

McGogy, Donald H., assignor to McGogy Pump Co., Inc., McMinnville, Oreg. Liquid meter. 1,694,747; Dec. 11.

McGogy Pump Co. (See McGogy, Donald H., assignor.)

McKee, Louis H., Trenton, N. J. Folding chair. 1,695,117; Dec. 11.

McLaughlin, Celia B., administratrix. (See McLaughlin, Wharton, B.)

McLaughlin, Wharton B., deceased, New York, N. Y.; C. B. McLaughlin, administratrix. Preparation of edible fats. 1,694,391; Dec. 11.

McMurray, William C., Avalon, Pa. Knockdown fusee and carrying case. 1,695,052; Dec. 11.

McNaught, Norris F., Chicago, assignor to Cross Manufacturing Company, Woodstock, Ill. Rebound check. 1,694,549; Dec. 11.

McTarnahan, John T. (See Johnson, L. E., Hansen, and McTarnahan.)

McTavish, Robert, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Rendering apparatus. 1,695,254; Dec. 11.

Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,177; Dec. 11.





Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,178; Dec. 11.

Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,179; Dec. 11.

Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,180; Dec. 11.

Meissner, Alexander, assignor to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Means to influence luminous rays. 1,694,861; Dec. 11.

Mellem, Guy G., Minneapolis, Minn. Doorstop. 1,964,550; Dec. 11.

Meller, Reginald B., Alameda, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Display device. 1,694,551; Dec. 11.

Meloon, James W., Wellesley, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Attachment of sole to shoe. 1,694,446; Dec. 11.

Menczer, Samuel A., Fort Worth, Tex. Glare shield for motor vehicles. 1,694,552; Dec. 11.

Mercadante, Joseph. (See Thomson, Alfred M., assignor.)

Mergoth, J. E., Co. (See Hiering, William C., assignor.)

Merlis, Ira, assignor to Kelvin Engineering Co., Inc., New York, N. Y. Cane-cutting attachment for mills. 1,695,196; Dec. 11.

Merrill, David R., Berkeley, assignor to Union Oil Company of California, Los Angeles, Calif. Emulsifiable oil. 1,695,197; Dec. 11.

Merrill, David R., Berkeley, assignor to Union Oil Company, Los Angeles, Calif. Clarifying, decolorizing, and neutralizing oils. 1,695,198; Dec. 11.

Merritt, Matthew M., Middleton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and apparatus for treating hides and skins. 1,694,447; Dec. 11.

Mertzanoff, André M., assignor to American Radiator Company, New York, N. Y. Automatic draft regulator for boilers. 1,695,240; Dec. 11.

Meyer, Charles L., assignor to Concrete Engineering Company, Omaha, Nebr. Shore-brace clip. 1,694,887; Dec. 11.

Meyer, Christian F., assignor to Textile Machine Works, Wyomissing, Pa. Universal loop-regulating mechanism for full-fashioned-knitting machines. 1,694,888; Dec. 11.

Middlemiss, George H., Birmingham, Ala. Switch-controlling device. 1,694,448; Dec. 11.

Miller, Calvin N., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Bottle refrigerators. 1,695,256; Dec. 11.

Miller, Edward G., Grand Rapids, Mich. Air feed for hot-air furnaces. 1,694,392; Dec. 11.

Miller, Leo J. (See Newland, K., and Miller.)

Miller, Melcher, assignor of one-half to L. Stiefel, Leipzig, Saskatchewan, Canada. Harness ferrule. 1,694,716; Dec. 11.

Miller, Philip F., Maplewood, N. J., assignor to The De Laval Separator Company, New York, N. Y. Apparatus for reclaiming used lubricating oil. 1,694,478; Dec. 11.

Miller, Robert J., Oakland, Calif. Wall louver ventilator. Re17,164; Dec. 11.

Milligan, Daniel G., Fort Wayne, Ind. Portable liquid-recording funnel. 1,695,053; Dec. 11.

Mills, Roscoe C. (See Riddle, Kenneth M., assignor.)

Millward, William, Pittsburgh, Pa. Regenerative furnace. 1,695,199; Dec. 11.

Milton, John L., Louisville, Ky. Electric switch. 1,694,479; Dec. 11.

Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)

Miner, W. H., Inc. (See O'Connor, John F., assignor.)

Miranda, Josephine O, Los Angeles, Calif. Motion-picture card game. 1,694,748; Dec. 11.

Mitchell, John E., St. Louis, Mo. Boll-breaking and cotton-separating machine. 1,694,480; Dec. 11.

Mitchell, Ralph. (See Lentz, Rea D., assignor.)

Mittinger, George E., Cleveland Heights, Ohio. Metallic head for wooden keys and the like. 1,695,118; Dec. 11.

Molyneux, George E., Bayonne, N. J., assignor to United Shoe Machinery Corporation, Boston, Mass. Machine for operating on pieces of sheet material. 1,694,787; Dec. 11.

Monolith Hollow Wall Company. (See Marten, Elmer W., assignor.)

Monteith, Charles N., assignor to Boeing Airplane Company, Seattle, Wash. Retractable light for aircraft. 1,694,889; Dec. 11.

Montgomery, Jay H. (See Burton, E. F., and Montgomery.)

Moody, Lewis F., Philadelphia, Pa. Propeller-type turbine or pump. 1,694,481; Dec. 11.

Moody, Lewis F., Philadelphia, Pa. Hydraulic draft tube. 1,695,200; Dec. 11.

Moore, Bernard J., Stoke-on-Trent, and A. J. Campbell, Stone, assignors of one-half to Gibbons Brothers Limited, Dudley, England. Truck. 1,694,749; Dec. 11.

Morahan, Grace S., Sag Harbor, N. Y. Doll. Des. 77,181; Dec. 11.

Morejon, Rafael F., Habana, Cuba. Photographic camera. 1,694,750; Dec. 11.

Morgan Blodgett Morgan, Inc. (See Morgan, Porter S., assignor.)

Morgan, Horace H., assignor to Palmer-Bee Company, Detroit, Mich. Conveyer. 1,694,054; Dec. 11.

Morgan, John A., assignor to The John A. Morgan Machinery Company, Los Angeles, Calif. Water-circulation-control mechanism for automobiles. 1,695,055; Dec. 11.

Morgan, John A., Machinery Company, The. (See Morgan, John A., assignor.)

Morgan, John R. (See Jandus, H. S., and Morgan.)

Morgan, Porter S., assignor to Morgan Blodgett, Morgan, Inc., New York, N. Y. Shock absorber. 1,694,788; Dec. 11.

Morris, Richard H., 3d, Philadelphia, Pa. Mushroom bed. 1,694,482; Dec. 11.

Morrison, Fred S., Newark, N. J. Dispensing device. 1,694,925; Dec. 11.

Morrison, Lewis E., Newark, N. J., assignor to American Type Founders Company. Sheet-feeding mechanism. 1,694,717; Dec. 11.

Mosely, Harmon, et al. (See Smoot, Samuel K., assignor.)

Mosgrove, Charles A., Waterbury, assignor to The Autoyre Company, Oakville, Conn. Slide buckle. 1,695,056; Dec. 11.

Moss, George R., and R. D. Parks, Lobrville, assignors to J. J. McCulloch, Pomeroy, and S. C. Sweet, Des Moines, Ia. Barn and garage door latch. 1,694,553; Dec. 11.

Motor Terminals Company. (See Fitch, Benjamin F., assignor.)

Muckey, Floyd S., New York, N. Y., assignor of one-tenth to J. F. O'Brien, West New York, N. J., three-tenths to J. W. Goodwin, Richmond Hill, N. Y., and six-tenths to Muckey Patents Corporation. Piano. 1,694,789; Dec. 11.

Muckey Patents Corporation et al. (See Muckey, Floyd S., assignor.)

Müller, Adolf M., Chemnitz, Germany. Operating jack for double-hooked needles in knitting machines. 1,694,426; Dec. 11.

Munro, Thomas, Philadelphia, Pa. Vehicle spring cover. 1,694,483; Dec. 11.

Murphy, Paul B., Nyack, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,695,057; Dec. 11.

Murray, Hugh B., Wellington, New Zealand. Variable-speed gear and reverse for motor vehicles and other machines. 1,694,554; Dec. 11.

Myerson, Simon, Cambridge, Mass. Artificial tooth. 1,694,948; Dec. 11.

N. V. Philips' Gloeilampenfabrieken. (See Bol, Cornelis, assignor.)

Napier Co., The. (See Schuelke, Emil A., assignor.)

Nash, Arthur E., Philadelphia, and J. S. Alcorn, Cynwyd, assignors to Alcorn Combustion Company, Philadelphia, Pa. Radiating combustion chamber. 1,694,393; Dec. 11.

National Automatic Tool Company, The. (See Galloway, Robert M., assignor.)

National Pneumatic Company. (See Conklin, Roscoe D., assignor.)

National Pneumatic Company, The. (See Hockley, H. R., and White, assignors.)

National Refrigeration Corporation. (See Dennison, French E., assignor.)

Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors, by mesne asignments, to The Columbia Steel Company, Pittsburgh, Pa. Floor joist. 1,694,514; Dec. 11.

Naugle, Harry M., and A. J. Townsend, Canton, Ohio, assignors, by mesne assignments, to The Columbia Steel Company, Pittsburgh, Pa. Welding machine. 1,694,555; Dec. 11.

Neal, Burton, St. Louis, and G. H. Hebebrand, Kinloch, Mo. Percentage feeder. 1,694,484; Dec. 11.

Neely, George W., Santa Ana, Calif. Safety device for banks. 1,694,556; Dec. 11.

Nelson, Fred N., Seattle, Wash. Engine housing. 1,694,790; Dec. 11.

Nelson, Lawrence. (See Bergh, I. G., and Nelson.)

Nelson, Lettie Z., St. Joseph, Mo. Sanitary-napkin holder. 1,695,153; Dec. 11.

New, Albert L. (See Davis, Dean W., assignor.)

Newell, Alfred T., Birmingham, Ala. Asphalt spreader. 1,695,201; Dec. 11.

Newell, Alfred T., Birmingham, Ala. Asphalt spreader. 1,695,202; Dec. 11.

Newell, Alfred T., Birmingham, Ala. Asphalt spreader. 1,695,203; Dec. 11.

Newland, Kelly, and L. J. Miller, Columbus, Ohio. Vehicle headlamp. 1,694,485; Dec. 11.

Newton, Edward G., and E. J. Wade, Pittsfield, Mass., assignors to General Electric Company. High-voltage primary cut-out. 1,694,979; Dec. 11.

Niagara Machine & Tool Works. (See Lindgren, Bror J., assignor.)

Nicles, Hiram W., assignor to Vento Steel Sash Company, Muskegon Heights, Mich. Window fastener. 1,964,662; Dec. 11.

Nielsen, Holger, Buffalo, N. Y.. Refrigerating machine. 1,694,427; Dec. 11.

Nixon, Clarence R., assignor to Baltimore Bottle Machine Corporation, Baltimore, Md. Glass-blowing machine. 1,694,486; Dec. 11.

Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Spoon or analogous article. Des. 77,182; Dec. 11.

Nohavicska, Roza. (See Déri, S., and Denk, assignors.)

Norris, Harry. (See Fulenwider, Jesse and H., Robinson, and Norris.)

Norsk Hydro-Elektrisk Kvaelstofaktieselskab. (See Halvorsen, Birger F., assignor.)

Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. Induction electric furnace. 1,694,791; Dec. 11.

Northrup, Edwin F., Princeton, assignor to Ajax Electrothermic Corporation, Trenton, N. J. High-frequency induction furnace. 1,694,792; Dec. 11.

Norton, Allen B., Cleveland, Ohio, assignor to Aluminum Company of America, Pittsburgh, Pa. Preventing warpage of castings in cooling. 1,695,239; Dec. 11.

Norton, Ralph H. (See MacChesney, C. M., and Norton.)

Nutt, Frank N., assignor to A C Spark Plug Company, Flint, Mich. Automatic heat-control device. 1,694,751; Dec. 11.

Nutt, Frank N., assignor to A C Spark Plug Company, Flint, Mich. Instrument-panel bezel. 1,694,752; Dec. 11.

Nuttall, Richard, Sydney, New South Wales, Australia. Propulsion means for aircraft or the like. 1,694,602; Dec. 11.

Nutting, Willard H., Oakland, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Lowervator. 1,694,515; Dec. 11.

O. K. Playing Card Company. (See Kubatzky, Otto, assignor.)

Oakley, Laurence M., assignor to Essex Rubber Company, Trenton, N. J. Shoe sole. Des. 77,183; Dec. 11.

O'Brien, Joseph F., et al. (See Muckey, Floyd S., assignor.)

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,694,793; Dec. 11.

O'Connell, William J. (See Truesdell, J. G., and O'Connell.)

Oettinger, Henry, Jersey City, N. J. Flangeway guard. 1,694,557; Dec. 11.

O'Flaherty, Edward J., Lakewood, Ohio. Tool chuck. 1,694,538; Dec. 11.

Ogden, J. Edward. (See Prescott, Arthur T., assignor.)

Ogden, John E. (See Tomkinson, Charles C., assignor.)

Oglesby, Nicholas E. (See Bradner, D. B., and Oglesby.)

Ohler, Frank L., assignor to The Haughton Elevator and Machine Co., Toledo, Ohio. Elevator-gearing adjustment. 1,694,663; Dec. 11.

Ohnstrand, Enoch, Kenmore, N. Y. Hinged compressor. 1,695,257; Dec. 11.

Olson, Gottfrid. (See Steiner, F. M., and Olson.)

Olson, Walter A., Twin Valley, Minn. Motor-driven sleigh. 1,694,829; Dec. 11.

Optical Industries Corporation. (See Adams, Charles A., assignor.)

Ordmann, Max D. (See Pandolfo, Joseph, assignor.)

Orkla Grube-Aktiebolag. (See Lenander, Nils E., assignor.)

Osgood, John L., Buffalo, N. Y. Tool handle. 1,694,559; Dec. 11.

Ostline, John E., Liverpool, England, assignor, by mesne assignments, to Automatic Electric Inc., Chicago, Ill. Telephone system. 1,694,623; Dec. 11.

Ostrowsky, Harry, London, England. Frog for violin bows. 1,695,020; Dec. 11.

Otis Elevator Company. (See Blackburne, Frederick W., assignor.)

Otis Elevator Company. (See Larson, David C., assignor.)

Otis Elevator Company. (See Lindquist, D. L., Dunn, and Larson, assignors.)

Otto, Carl, Essen-Ruhr, Germany. Vertical-chamber coke oven. 1,695,204; Dec. 11.

Otwell, Walter E., Linn, Kans. Radiator-cap ornament. Des. 77,184; Dec. 11.

Owens, Frank R., Beaver Crossing, Nebr. Windmill. 1,695,154; Dec. 11.

Pacific Manufacturing Company. (See Reinhold, William J., assignor.)

Pagendarm, John F., Oakland, assignor to American Woodlite Corporation, San Francisco, Calif. Universal focusing device. 1,694,830; Dec. 11.

Palmer-Bee Company. (See Morgan, Horace H., assignor.)

Palmer, Charles W., Spondon, near Derby, England, assignor to Celanese Corporation of America, New York, N. Y. Manufacture of bobbins, spools, or the like. 1,694,428; Dec. 11.

Pandolfo, Joseph, assignor of one-third to M. D. Ordmann, New York, N. Y. Support attachment for flatirons. 1,694,688; Dec. 11.

Paraffine Companies, The. (See Finley, D., and Rhoades, assignors.)

Paraffine Companies, The. (See Meller, Reginald B., assignor.)

Paraffine Companies, The. (See Nutting, Willard H., assignor.)

Paraffine Companies, The. (See Tucker, Edgar M., assignor.)

Parent, Raymond C., assignor of one-half to J. C. Willard, Los Angeles, Calif. Game. 1,695,120; Dec. 11.

Parish, Frank P., Chicago, Ill. Machine tool. 1,694,560; Dec. 11.

Parker, Charles A., Haugan, assignor of one-half to W. H. Logan, St. Regis, Mont. Hose clamp. 1,694,664; Dec. 11.

Parker, Eugene, Los Angeles, Calif. Tile. 1,694,665; Dec. 11.

Parker, George A., Brockton, Mass. Staple. 1,695,155; Dec. 11.

Parks, Robert D. (See Moss, G. R., and Parks.)

Parks & Woolson Machine Company. (See Richardson, Charles G., assignor.)

Parsons, Arthur W., Miami, Fla. Safety device for doors. 1,694,394; Dec. 11.

Pavek, William J., Cicero, Ill. Shock absorber. 1,694,949; Dec. 11.

Peak, Warner L., Los Angeles, Calif., assignor to American Telephone and Telegraph Company. Auxiliary dialing tool. 1,694,429; Dec. 11.

Pearmain, William J., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch. 1,694,980; Dec. 11.

Pease, F. F., Inc. (See Pease, Fred F., assignor.)

Pease, Fred F., East Braintree, assignor to F. F. Pease Inc., Boston, Mass. Separating apparatus. 1,694,666; Dec. 11.

Peck, Harley T., Lebanon, assignor to The Peters Cartridge Company, Cincinnati, Ohio. Priming mixture for small-arms ammunition. 1,694,890; Dec. 11.

Peck, Percy D., and W. S. Thomas, assignors to Knapp Brothers Manufacturing Co., Chicago, Ill. Mitered-joint bracket. 1,694,667; Dec. 11.

Penney, Loren W., Newton Highlands, and H. E. Child, Newton Upper Falls, assignors to Saco-Lowell Shops, Boston, Mass. Cotton-working apparatus. 1,694,950; Dec. 11.

Peppin, Joseph, Sciota, N. Y. Portable guard fence. 1,694,753; Dec. 11.

Perfection Stove Company. (See Chadwick, Lee S., assignor.)

Peters, Archie R., Winfield, Kans., assignor of one-half to The Gulberson Corporation, Dallas, Tex. Oil-tank baffle. 1,694,668; Dec. 11.

Peters Cartridge Company, The. (See Peck, Harley T., assignor.)

Peters, Emil, Crefeld, Germany. Dynamic and efficiency meter. 1,694,718; Dec. 11.

Peters, Frederick W., assignor of one-half to E. Gruenfeldt, Cleveland, Ohio. Universal coupling. 1,694,926; Dec. 11.

Peterson, Andrew O., Santa Barbara, Calif. Vehicle-operated switch. 1,695,121; Dec. 11.

Peterson, Eugene, assignor to Western Electric Company, Incorporated, New York, N. Y. High-frequency signaling. 1,695,058; Dec. 11.

Phillips, Charles F., Blackheath, London, England. Electrical transformer. 1,695,122; Dec. 11.

Phillips, Jim C. (See Blevins, T. B., and Phillips.)

Plagneri, Umberto, San Francisco, Calif. Combination fountain pen and cigarette holder. 1,694,603; Dec. 11.

Pickett, Oliver B., Long Beach, Calif. Bolt and rod cutter. 1,694,561; Dec. 11.

Pieper, Oscar H., Rochester, N. Y. Cord-holding structure. 1,694,669; Dec. 11.

Pilant, Charles A., New Orleans, La. Separator. 1,695,156; Dec. 11.

Piquerez, Emile, Paris, France, assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,694,624; Dec. 11.

Pittsburgh Train Control Company. (See Williamson, Arba G., assignor.)

Plum, Stephen H., 2d, Madison, N. J., assignor to American Type Founders Company. Sheet-holding device. 1,694,720; Dec. 11.

Plum, Stephen H., 2d, Madison, N. J., and H. Duff, Brooklyn, N. Y., assignors to American Type Founders Company. Suction nozzle for printing presses. 1,694,719; Dec. 11.

Porter-Cable Machine Company, The. (See Emmons, Arthur N., assignor.)

Porter, Omer, Evansville, Ind. Automatic vent for bottles and other liquid containers. 1,694,754; Dec. 11.

Postal Telegraph-Cable Company. (See Gould, Rufus, assignor.)

Poston, Emmett V., Springfield, Ill. Machine for veneering brick. 1,695,123; Dec. 11.

Poulsen, Hans R., Lyme, Conn. Eaves-trough hanger. 1,695,059; Dec. 11.

Prentice, James M., Holyoke, Mass. Electric baseball game. 1,694,721; Dec. 11.

Prescott, Arthur T., East Orange, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Ferry bridge. 1,694,516; Dec. 11.

Price, Herbert E., Seattle, Wash. Animated toy. 1,695,205; Dec. 11.

Price, Joseph, West New Brighton, assignor to The Griscom-Russell Company, New York, N. Y. Air cooler. 1,694,395; Dec. 11.

Price, William T. (See Crosby, Arthur P., assignor.)

Priess, William H., assignor to Wireless Specialty Apparatus Company, Boston, Mass. Electrical condenser. 1,695,060; Dec. 11.

Prigge, Beatrice M., administratrix. (See Prigge, Hugh G.)

Prigge, Hugh G., deceased, Springfield, Ill.; B. M. Prigge, administratrix, assignor to B. M. Prigge. Automobile locking device. 1,694,863; Dec. 11.

Pritchard, Carl B., Scottdale, Pa. Making metallic rims for bull wheels. 1,694,689; Dec. 11.

Pritchett, William H., San Diego, Calif. Air valve and fuel cut-off. 1,695,206; Dec. 11.

Prosperity Company, The. (See Clisson, Albert B., assignor.)

Pullen, Rodney S., Atlantic City, N. J., assignor to Pullenlite Company, Philadelphia, Pa. Match book. 1,694,864; Dec. 11.

Pullenlite Company. (See Pullen, Rodney S., assignor.)

Purwin, Klemens. (See Stoney, J. T., and Purwin.)

Puryear, Samuel R., Nashville, Tenn. Apparatus for separating solids. 1,695,021; Dec. 11.

Quast, Herman, Arlington, Minn. Finger ring. 1,695,157; Dec. 11.





Rabe, Paul, H. Stötter, B. Wenk, Leverkusen-on-the-Rhine, and W. Schepss, Wiesdorf-on-the-Rhine, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Producing dyeings fast to light. 1,694,562; Dec. 11.

Radio Corporation of America. (See Franklin, Charles S., assignor.)

Rado, Adelaide D. W. (See Rado, Adolph and A. D. W.)

Rado, Adolph and A. D. W., East Orange, N. J. Dust-mop cleaner. 1,694,891; Dec. 11.

Randolph, Charles P., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Electric waffle iron. 1,694,981; Dec. 11.

Rankin, Ollie W., Covington, Ky., assignor to The Dawson-Evans Construction Co., St. Bernard, Ohio. Cutting tool for the tie wires or bands of concrete building forms, barrels, boxes, bales, and the like. 1,695,022; Dec. 11.

Ransome Concrete Machinery Company. (See Bushnell, James E., assignor.)

Read, John B., and M. F. Coolbaugh, Golden, Colo. Roasting sulphide minerals. 1,694,794; Dec. 11.

Recker, John, Newark, N. J. Keyless lock. 1,694,795; Dec. 11.

Redman, Charles M., Evansville, Ind. Electrically-operated organ-valve control. 1,694,722; Dec. 11.

Reed, Joseph S., Houston, Tex. Cleaning device. 1,695,023; Dec. 11.

Reese, William, assignor to Elder & Jenks, Philadelphia, Pa. Brush. 1,695,124; Dec. 11.

Regan, William J., and W. Kelso, assignors to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,695,026; Dec. 11.

Regan, William J., Wilkinsburg, and W. Kelso, assignors to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,695,024; Dec. 11.

Reid, Ernest W. (See Curme, G. O., jr., and Reid.)

Reinhold, William J., assignor to Pacific Manufacturing Company, San Francisco, Calif. Sectional partition. 1,694,690; Dec. 11.

Reliable Machine Company, The. (See Martindale, Charles A., assignor.)

Remington Rand, Inc. (See Hutchings, Le Roi E., assignor.)

Remy, Auguste, J. Renaux, J. Delort, and F. Debrebant, Rezu St. Eloi, France. Sound-recording and sound-reproducing machine. 1,695,025; Dec. 11.

Renaux, Jean. (See Remy, A., Renaux, Delort, and Debrebant.)

Rensing, Theodor, Kansas City, Mo. Swimming device. 1,695,125; Dec. 11.

Rentos, Constantinos G., Brooklyn, N. Y. Picture frame. 1,694,755; Dec. 11.

Rentz, Frank, Yankton, S. Dak. Golf game apparatus. 1,694,691; Dec. 11.

Revere Rubber Company. (See Greene, Edward F., assignor.)

Reynolds, Joy S., Detroit, Mich. Maintaining pressure on liquid for use in vehicle braking. 1,694,951; Dec. 11.

Rhenania-Kunheim, Verein Chemischer Fabriken, Aktiengesellschaft. (See Rothe, F., and Brenek, assignors.)

Rhoades, William L. (See Finley, D., and Rhoades.)

Rice, Horace E., deceased, and R. C. Da Costa, said Da Costa assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa.; K. F. Rice, administratrix. Condenser structure. 1,694,927; Dec. 11.

Rice, Kathleen F., administratrix. (See Rice, H. E., and Da Costa.)

Rich, William T., jr. (See Glidden, A. A., Knowland, and Rich.)

Richards, James H., Glendale, Calif. Engine-trouble diagnoser. 1,694,670; Dec. 11.

Richardson, Charles G., assignor to Parks & Woolson Machine Company, Springfield, Vt. Cloth-finishing machine. 1,694,865; Dec. 11.

Richardson, O. C., Chicago, Ill. Tag. 1,694,723; Dec. 11.

Ricks, Fred, and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for use in assembling uppers and insoles. 1,694,449; Dec. 11.

Ricks, Fred, and J. Gouldbourn, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Assembling uppers and insoles. 1,694,450; Dec. 11.

Riddell, W. A. (See Brown, Davis, assignor.)

Ridderstrom, Andrew R., Nahant, assignor to Beacon Folding Machine Company, Lynn, Mass. Folding method and article produced thereby. 1,694,796; Dec. 11.

Riddle, Kenneth M., assignor of one-half to R. C. Mills, Tulsa, Okla. Bag holders. 1,695,027; Dec. 11.

Rider, Herbert E., Lynbrook, N. Y., assignor to Beaver Machine & Tool Co. Inc., Newark, N. J. Thermostat. 1,694,928; Dec. 11.

Ridgely Trimmer Company, The. (See Galvin, Charles E., assignor.)

Riley Stoker Corporation. (See Craig, Ollison, assignor.)

Riley, Thomas H., Skaneateles Falls, N. Y., and A. H. Flint, assignors to Johnson & Bassett, Inc., Worcester, Mass. Bunch builder for spinning mules. 1,695,028; Dec. 11.

Ringer, Soren, assignor to Ringer-Worcester Company, Worcester, Mass. Metal receptacle. 1,694,487; Dec. 11.

Ringer-Worcester Company. (See Ringer, Soren, assignor.)

Rizzi, Vito, Windsor Locks, Conn. Automobile radiator ornament or similar article. Des. 77,185; Dec. 11.

Robbins & Myers, Inc. (See Branson, Walter J., assignor.)

Roberts, Henry T., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Valve. 1,694,625; Dec. 11.

Roberts, Henry T., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Valve. 1,694,626; Dec. 11.

Roberts, Marshal G. (See Diederich, P. E., and Roberts.)

Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 1,694,451; Dec. 11.

Robinson, Clarence R., Brooklyn, N. Y., assignor to Robinson Fibre Corporation, Wilmington, Del. Apparatus for manufacturing containers. 1,694,627; Dec. 11.

Robinson, Edward W. (See Fulenwider, Jesse and H., Robinson, and Norris.)

Robinson Fibre Corporation. (See Robinson, Clarence R., assignor.)

Robinson, Frederic W., and K. V. Knapp, assignors to Hanovia Chemical and Manufacturing Company, Newark, N. J. Therapeutical lamp. 1,695,061; Dec. 11.

Rodelli, Michele, Brooklyn, N. Y. Motor roller-skate brake. 1,694,671; Dec. 11.

Roedding, Gordon E., assignor to Grand Rapids Brass Company, Grand Rapids, Mich. Latch. 1,694,866; Dec. 11.

Rogers, Arthur R., Jonesport, Me. Separator. 1,694,724; Dec. 11.

Rogler, Max, Dussldorf, Germany. Hair-curling means. 1,694,672; Dec. 11.

Roll-A-Way Bed Corporation. (See Matheson, William A., assignor.)

Root, Bertwell C., assignor to Brown Company, Berlin, N. H. Tubular bend and making same. 1,694,430; Dec. 11.

Root, Chapman J. (See Samuelson, Alexander, assignor.)

Rooth, Paul H., Chicago, Ill. Radio apparatus. 1,694,396; Dec. 11.

Ross, Donald W., and J. M. Lambie, Washington, Pa. Molding ceramic materials. 1,694,563; Dec. 11.

Ross, Herbert O., St. Louis, Mo. Index or record. 1,694,517; Dec. 11.

Ross, Oscar A., New York, N. Y. Synchronized machine gun for airplanes. 1,694,488; Dec. 11.

Rostron, Robert, assignor to Crerar, Adams & Co., Chicago, Ill. Track drill. 1,695,062; Dec. 11.

Rothe, Fritz, and H. Brenek, assignors to the firm of Rhenania-Kunheim Verein Chemischer Fabriken Aktiengesellschaft, Berlin, Germany. Manufacture of glass containing barium. 1,694,831; Dec. 11.

Rubinstein, Leo, Vienna, Austria. Machine for drying veneers. 1,694,489; Dec. 11.

Ruffo, Louis, New York, N. Y. Control device. 1,694,797; Dec. 11.

Rufty, Henry E. (See Russell, J. F., and Rufty.)

Ruhmer, Ernst, deceased, Berlin Germany, by E. Gruhl, assignee, assignor to Wired Radio, Inc., New York, N. Y. Multiple telephony. Re17,158; Dec. 11.

Runge Corn Harvester Company. (See Jett, Georg C. assignor.)

Rushmore, Samuel W., Plainfield, N. J. Engine-cooling system. 1,694,397; Dec. 11.

Rushmore, Samuel W., Plainfield, N. J. Engine-lubricating system. 1,694,518; Dec. 11.

Russell, John F., and H. E. Rufty, Salisbury, N. C. Door-operating device. 1,694,431; Dec. 11.

Russell Manufacturing Company, The. (See Zimmerer, Frederick J., jr., assignor.)

Ryan, Catherine V., Quincy, Ill. Individual coffeepot. Des. 77,186; Dec. 11.

Ryan, George E., Taunton, Mass. Heat-deflection shield. 1,694,604; Dec. 11.

Ryder, Samuel C., Sydney, New South Wales, Australia. Apparatus for automatically displaying lantern slides bearing advertisements or other matter. 1,695,029; Dec. 11.

St. Clair, Reuben, Wilwaukee, Wis. Lawn trimmer. 1,694,894; Dec. 11.

St. Louis Steel Ball Corporation. See Magann, Merritt W., assignor.)

Sabbah, Camile A., Schenectady, N. Y., assignor to General Electric Company. Transmission of pictures and views. 1,694,982; Dec. 11.

Salisbury, Raymond, trustee. (See Fish, George L., assignor.)

Salzmann, Ernst, Solothurn, Switzerland. Marking device. 1,694,490; Dec. 11.

Samuelson, Alexander, assignor to C. J. Root, Terre Haute, Ind. Glassworking machine. 1,694,867; Dec. 11.

Sands Manufacturing Company, The. (See Hamilton, Paul H., assignor.)

Sangster, William, Peterborough, Ontario, Canada, assignor to The De Laval Separator Company, New York, N. Y. Milk pasteurizer. 1,694,452; Dec. 11.

Sangster, William, Peterborough, Ontario, Canada, assignor to The De Laval Separator Company, New York, N. Y. Milk pasteurizer. 1,695,207; Dec. 11.

Santi, Louis, Marseille, France. Ear plug for bathers. 1,694,952; Dec. 11.

Saraniti, Thomas, Brooklyn, N. Y. Shoe. 1,695,063; Dec. 11.

Sauveur, Harry, Berlin, Germany. Tool for inserting stud bolts. 1,694,628; Dec. 11.

Savage, Ralph V., Los Angeles, Calif. Keyhole guard. 1,694,798; Dec. 11.
Sawyer, Albert F., assignor to I. L. Keith, Haverhill, Mass. Motor support. 1,694,868; Dec. 11.
Saco-Lowell Shops. (See Penney, L. W., and Child, assignors.)
Schaedel, Henry V., assignor to Liquid Veneer Corporation, Buffalo, N. Y. Floor polisher. 1,694,983; Dec. 11.
Schaer, Charles, Langenthal, assignor to the firm Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Process and apparatus for welding plates. 1,694,629; Dec. 11.
Scharhag, Peter, Milwaukee, Wis., assignor to Scott & Williams, Incorporated, New York, N. Y. Dial-harmonizing device for circular-knitting machines. 1,695,208; Dec. 11.
Scheminger, John, jr., Providence, R. I. Rotary oil burner. 1,695,030; Dec. 11.
Schepss, Wilhelm. (See Rabe, P., Stötter, Wenk, and Schepss.)
Schilling, John M. and W. G., Lima, Ohio. Carrier for bottle coolers. 1,694,929; Dec. 11.
Schilling, Willard G. (See Schilling, John M. and W. G.)
Schleicher, Frank J., St. Louis, Mo. Box cover. 1,694,892; Dec. 11.
Schleifer, Carlo, Novara, Italy. Device for delivering the tufts of textile fibers from combing machines having intermittently rotating nipper drums. 1,694,432; Dec. 11.
Schleper, Johannes F., Amsterdam, Netherlands. Testing lamp for heavy-current installations. 1,694,605; Dec. 11.
Schmick, Hans, Berlin-Charlottenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Determining gaseous carbonic acid. 1,695,031; Dec. 11.
Schneider, Xaver, Yonkers, N. Y. Tire-rim tool. 1,694,893; Dec. 11.
Schnoor, Raymond D., Chicago, Ill. Mechanical movement. 1,695,064; Dec. 11.
Schrader's, A., Son, Inc. (See Volckhausen, Julius, assignor.)
Schrage, Hidde K., Paris, France, assignor to General Electric Company. Speed control of induction motors. 1,694,984; Dec. 11.
Schrage, Hidde K., Paris, France, assignor to General Electric Company. Speed control of induction motors. 1,694,985; Dec. 11.
Schroeder, Simon E., assignor, by mesne assignments, to Automatic Washer Company, Newton, Iowa. Washing machine. 1,695,065; Dec. 11.
Schubart, Benno, Nuremburg, assignor to Vereingte Schuhfabriken, Bemels-Wessels Aktiengesellschaft, Augsburg, Oberhausen, Germany. Baby's shoe. Des. 77,187; Dec. 11.
Schuelke, Emil A., assignor to The Napier Co., Meriden, Conn. Necklace or similar article. Des. 77,188; Dec. 11.
Schuyler, Ella S., executrix. (See Schuyler, Frank, B.)
Schuyler, Frank B., deceased, Berkeley, Calif.; E. S. Schuyler, executrix. Washing machine. 1,694,606; Dec. 11.
Schwartz, Frederick, assignor to Robert Findlay Manufacturing Company, Inc., Brooklyn, N. Y. Table for radio receiving sets or the like. Des. 77,189; Dec. 11.
Schwarz, Hermann, Hamburg, Germany. Apparatus for setting up skittle pins. 1,695,209; Dec. 11.
Scott, Floyd L., and L. H. Wellensiek, assignor to Hughes Tool Company, Houston, Tex. Cutter cone for well drills. 1,694,869; Dec. 11.
Scott, Floyd L., assignor to Hughes Tool Company, Houston, Tex. Support for reamer cutters. 1,694,870; Dec. 11.
Scott, William M., Treddyfrin Township, Chester County, Pa. Switchboard mounting of circuit-breaker units. 1,694,398; Dec. 11.
Scott & Williams, Incoroprated. (See Scharhag, Peter, assignor.)
Scovill Manufacturing Company. (See King, George A., assignor.)
Scullin, Charles J. (See Day, C. M., and Scullin.)
Seaberg, Severin, and H. W. Anderson, Moline, Ill. Magnetic circuit-control apparatus. 1,694,692; Dec. 11.
Sebring Manufacturing Corporation, The. (See Watts, Verner, assignor.)
Sederholm, John E., assignor to American Hoist & Derrick Company, St. Paul, Minn. Loud speaker. 1,695,126; Dec. 11.
Sedwick, Mathew M., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Seaming head for can-closing machines. 1,695,210; Dec. 11.
Seeley, Harold T. (See Bany, H., and Seeley.)
Seel, Reidar G., Chicago, Ill. Dispensing device for safety matches. 1,694,930; Dec. 11.
Seifert, John O., Auburndale-Flushing, N. Y. Match book and making the same. 1,694,799; Dec. 11.
Seitz, Theobald F., assignor The Corporation of Seitz-Werke G. m. b. H., Kreuznach, Germany. Bottle sterilizing and cleansing apparatus. 1,695,212; Dec. 11.
Seitz-Werke G. m. b. H. (See Seitz, Theobald F., assignor.)
Selden Research & Engineering Corporation, The. (See Jaeger, Alphons O., assignor.)
Sensui, Nobuo, Kanagawaken, Japan, assignor to General Electric Company. Protective arrangement. 1,694,986; Dec. 11.
Shackelton, William J., Scotch Plains, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Impedance-measuring bridge. 1,695,032; Dec. 11.
Shawmut Engineering Company. (See Lea, Charles, assignor.)
Shearer, Harry T., assignor to Landis Machine Company, Waynesboro, Pa. Die head for cutting tapered threads. 1,695,158; Dec. 11.
Shelton, Edward L., Memphis, Tenn. License-plate holder. 1,694,832; Dec. 11.
Sherman, Clifton W., and J. M. Hall, Hamilton, Ontario, Canada, assignors to Hall Draft Gear Corporation, Buffalo, N. Y. Shock absorber. 1,694,987; Dec. 11.
Sherman, William T., assignor to Henry L. Hughes Co. Inc., Troy, N. Y. Brush-filling apparatus and method of filling brush pads. 1,695,159; Dec. 11.
Sherran, Amelia C., assignor of one-half to R. E. Sherran, Brooklyn, N. Y. Pad and bed vessel. 1,695,160; Dec. 11.
Sherran, Ruth E. (See Sherran, Amelia C., assignor.)
Shilander, Oscar G., Dearborn, Mich. Rack. 1,695,211; Dec. 11.
Shively, Louis S., assignor to The Weightograph Company, St. Louis, Mo. Adjustable reflector frame. 1,694,833; Dec. 11.
Shively, Louis S., assignor to The Weightograph Company, St. Louis, Mo. Coin-trip mechanism for personal weighing scales. 1,695,066; Dec. 11.
Shopneck, Henry P., Dorchester, assignor to J. J. Daly, West Newton, Mass. Wrapper for receptacles and preparing the same. 1,694,399; Dec. 11.
Short, Charles R., Dayton, Ohio, assignor to General Motors Research Corporation, Detroit, Mich. Support for internal-combustion engines with rubber cushions. 1,694,756; Dec. 11.
Shugart, Herbert A., Santa Ana, Calif. Making tile clay products and apparatus therefor. 1,695,119; Dec. 11.
Shuster, F. B., Company, The. (See Matteson, George F., assignor.)
Siemens & Halske Aktiengesellschaft. (See Schmick, Hans, assignor.)
Simmons Company. (See Huetten, Peter E., assignor.)
Simmons Company. (See Kusterle, Frank, assignor.)
Simplex Piston Ring Company. (See Solenberger, Dean M., assignor.)
Simplicity Engineering Company. (See Soldan, L. E., and Behnke, assignors.)
Sinclair, George W., Eton, England. Mechanism for transmitting movement. 1,694,834; Dec. 11.
Sisson, Harry W., Hammond, Ind. Lamp. 1,694,564; Dec. 11.
Sjoestroem, Kurt, Chicago, Ill. Combined cigar cutter, ash tray, and lighter. Des. 77,190; Dec. 11.
Sjolin, Ernest, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Socket and switch plug. 1,694,400; Dec. 11.
Skinner, William C., Vancouver, British Columbia, Canada. Bracket. 1,695,213; Dec. 11.
Slade, James W., New York, N. Y. Heater. 1,694,695; Dec. 11.
Sleeman, William C., Birmingham, Ala. Railway-car truck. 1,694,988; Dec. 11.
Sleeman, William C., Birmingham, Ala. Reversible brake-shoe head. 1,694,989; Dec. 11.
Slocum, Benjamin A., assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic-film package. 1,694,401; Dec. 11.
Smith, Birney K., Newcastle, Ind. Light diffuser for headlights. 1,694,491; Dec. 11.
Smith, Frank S., Los Angeles, Calif. Golf-club head. Des. 77,191; Dec. 11.
Smith, George W., Sistersville, W. Va. Depth-measuring devise. 1,695,033; Dec. 11.
Smith, Hubert J., Long Beach, Calif. Long-stroke pumping jack. 1,694,402; Dec. 11.
Smith, Jesse A. B., Stramford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,694,519; Dec. 11.
Smith, Norman C., Pittsburgh, Pa. Ice pick. Des. 77,192; Dec. 11.
Smith, Ralph E. and R. J. Arnold, assignors to The Galion Metallic Vault Company, Galion, Ohio. Dump body. 1,695,034; Dec. 11.
Smoot, Samuel K., assignor of one-half to W. F. Allen and H. Mosely, Flomot, Tex. Pipe-pulling device. 1,694,953; Dec. 11.
Société pour la Fabrication de la Soie "Rhodiaseta." (See Grillet, Nicolas B., assignor.)
Société pour la Fabrication de la Soie "Rhodiaseta." (See La Housse, Joseph E. G., assignor.)
Société Schneider & Co., et al. (See de Courseulles, Robert, assignor.)
Sohlberg, Erik G., Schenectady, N. Y., assignor to General Electric Company. Ventilation of dynamo-electric machines. 1,694,990; Dec. 11.
Soldan, Lewis E., and G. W. Behnke, Gladwin, Mich., assignors to Simplicity Engineering Company. Vibratory screen. 1,694,565; Dec. 11.
Solenberger, Dean M., assignor to Simplex Piston Ring Company, Cleveland, Ohio. Expander for sealing rings. 1,694,566; Dec. 11.
Sonora Phonograph Company. (See Wolff, Joseph, assignor.)
Sörensen, Niels E. E., Safvenas, Gottenborg, Sweden. Change-speed gear for motor cars or other power-propelled vehicles. 1,695,214; Dec. 11.



Sovig, Conrad B. (See Yale, Frank H., assignor.)
Spain, Gail E., assignor to Willamette Iron and Steel Works, Portland, Oreg. Method of and apparatus for transporting logs. 1,694,931; Dec. 11.
Spaulding, Eugene A., Portland, Me. Humidifier. 1,694,453; Dec. 11.
Spear, Furman D., assignor to Armspear Manufacturing Company, New York, N. Y. Train signal lamp. 1,695,258; Dec. 11.
Speedpak Dispenser Corporation. (See Huntley, Burton L., assignor.)
Spencer, Louis M., assignor to General Motors Corporation, Detroit, Mich. Removing snow and ice from windshields. 1,694,757; Dec. 11.
Spencer, Louis M., Detroit, and J. Zubaty, assignors to A C Spark Plug Company, Flint, Mich. Heat indicator for internal-combustion engines. 1,694,871; Dec. 11.
Sperr, Frederick W., jr., assignor to The Koppers Company, Pittsburgh, Pa. Pitch-coking process and product. 1,694,800; Dec. 11.
Sperry, Arthur R. (See Jacobsen, E., and Sperry.)
Stack, Maurice J., Cohoes, N. Y., assignor to Brintnall Manufacturing Company Inc. of Delaware, Wilmington, Del. Preparing cotton batting for shipment and use. 1,694,954; Dec. 11.
Standard Abrasive Co. (See Drapeau, Benjamin L., assignor.)
Standard-Coosa-Thatcher Company, The. (See Gravel, David, assignor.)
Standard Oil Company. (See Walker, Harry L., assignor.)
Standard Oil Company of California. (See Balmat, Cecil H., assignor.)
Staples, Earle I., New York, N. Y. Liquid-fuel burner. 1,695,215; Dec. 11.
Starlighters, Inc. (See Barker, Leo, assignor.)
Steiner, Frank M., and G. Olson, Minneapolis, Minn., assignors to Steiner Sales Company, Salt Lake City, Utah. Towel cabinet. 1,694,991; Dec. 11.
Steiner Sales Company. (See Steiner, F. M., and Olson, A., assignor.)
Stevens, Charles W., Columbus, Ohio. Adjustable-plug valve. 1,694,403; Dec. 11.
Stevens, Charles W., Bexley, Ohio. Lubricated adjustable-plug valve. 1,694,404; Dec. 11.
Stewart, Floyd R., et al. (See Dukesmith, Frank H., assignor.)
Stiefel, Ludwig. (See Miller, Melcher, assignor.)
Stimpson, Walter F. (See Dryden, William W., assignor.)
Stine, Samuel B., Osceola Mills, Pa. Metal-cutting apparatus. 1,694,567; Dec. 11.
Stoeffler, Ralph F., St. Louis, Mo. Thumb rest and stroke-control device for golf clubs. 1,694,992; Dec. 11.
Stokes, Charles L., Los Angeles, Calif., assignor to C. B. Camp, trustee, Glencoe, Ill. Automatic fuel regulator. 1,694,801; Dec. 11.
Stoller, Hugh M., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric regulator. 1,695,035; Dec. 11.
Stoney Foundry Engineering and Equipment Co., The. (See Stoney, J. T., and Purwin, assignors.)
Stoney, John T., and K. Purwin, assignors to The Stoney Foundry Engineering and Equipment Co., Cleveland, Ohio. Apparatus for vibrating objects. 1,695,127; Dec. 11.
Stötter, Hermann. (See Rabe, P., Stötter, Wenk, and Schepss.)
Straitline Radio Corporation. (See Herman, Henry F., assignor.)
Stromberg Motor Devices Company. (See Dienner, John A., assignor.)
Stuart, Clyde W., Brooklyn, N. Y. Button. 1,694,802; Dec. 11.
Sturdavant, Charles E., Wichita Falls, Tex. Shelving. 1,694,520; Dec. 11.
Sturrock, Archibald, Winnipeg, Manitoba, Canada, assignor to The Canadian Pacific Railway Company. Ventilating and deflecting of air through railway cars. 1,694,993; Dec. 11.
Suarez, Aguilino, Mount Carmel, Pa. Coal auger. 1,694,994; Dec. 11.
Suderov, Abraham, New York, N. Y. Making finger rings. 1,695,067; Dec. 11.
Sullivan Machinery Company. (See Holmes, Morris P., assignor.)
Sulzer Freres, Societe Anonyme. (See Schaer, Charles, assignor.)
Summers, Caleb E., and R. K. Lee, assignors to General Motors Research Corporation, Detroit, Mich. Motor mounting. 1,694,758; Dec. 11.
Sun Oil Company. (See Alleman, Gellert, assignor.)
Sundstrand Corporation, The. (See Sundstrand, Oscar J., assignor.)
Sundstrand, Oscar J., Rockford, Ill., assignor, by mesne assignments, to The Sundstrand Corporation, Wilmington, Del. Adding and listing machine. 1,694,803; Dec. 11.
Susbauer, John A. (See Ackerman, Peter, assignor.)
Suter, Eugéne F., London, England. Apparatus for waving or curling the hair. 1,694,607; Dec. 11.
Sweet, Silas C., et al. (See Moss, G. R., and Parks, assignors.)
Tabb, Warner T., Mahwah, N. J. Heating apparatus. 1,694,725; Dec. 11.
Tabler, Harry C., assignor to American Heater Corporation, St. Louis, Mo. Pressure and temperature control valve. 1,694,492; Dec. 11.
Taub, Alex, assignor to General Motors Corporation, Detroit, Mich. Thermostatic control of carburetors. 1,694,759; Dec. 11.
Taylor, Albert H., and L. C. Young, Washington, D. C. High-frequency electrical system. 1,694,895; Dec. 11.
Taylor, Harvey B., Philadelphia, Pa. Hydraulic turbine. 1,694,454; Dec. 11.
Taylor, William L., Cincinnati, Ohio. Multiplex bag and making it. 1,694,455; Dec. 11.
Teigland, George J., Haddonfield, N. J. Marine governor for seagoing ships. 1,695,216; Dec. 11.
Templeton, Henry. (See Arnold, E., and Templeton.)
Templin, Ellis W., Philadelphia, Pa., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Running gear for motor vehicles. 1,695,259; Dec. 11.
Texas Company, The. (See Cullinan, Ralph, assignor.)
Textile Machine Works. (See Meyer, Christian F., assignor.)
Thies, Adolf, St. Louis, Mo. Suspenders. 1,694,835; Dec. 11.
Thomas, Joseph R., Fort Madison, Iowa. Spring construction for furniture. 1,694,995; Dec. 11.
Thomas, Wingate S. (See Peck, P. D., and Thomas.)
Thomas, Wingate S., assignor to Knapp Brothers Manufacturing Company, Chicago, Ill. Plaster casing. 1,694,673; Dec. 11.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Combined cooker and cooler. 1,694,996; Dec. 11.
Thompson, Alfred P., Jackson Heights, assignor to General Chemical Company, New York, N. Y. Producing elemental sulphur. 1,695,068; Dec. 11.
Thompson, Ayers F., Sunland, Calif. Weather stripping for windows and doors. 1,695,161; Dec. 11.
Thompson, Harold E., Clendenin, W. Va., assignor to Carbide and Carbon Chemicals Corporation. Manufacture of natural gasoline. 1,695,162; Dec. 11.
Thompson, John L., Meadow, Va. Mortising and boring machine. 1,694,456; Dec. 11.
Thompson Products Inc. (See Bissell, Richard E., assignor.)
Thomson, Alfred M., Newark, N. J., assignor to J. Mercadante, New York, N. Y. Refrigerating apparatus. 1,694,030; Dec. 11.
Thorne, Clarence O., Watervliet, Mich. Paper cutter. 1,694,896; Dec. 11.
Thurell, John P., Fort Myers, Fla. Septic tank. 1,695,217; Dec. 11.
Thursby, Arthur P., St. Louis, Mo. Display device. 1,695,036; Dec. 11.
Tjossem, Kinney, Paullina, Iowa. Power attachment for corn pickers. 1,694,608; Dec. 11.
Toman, John. (See Borrowdale, Russell W., assignor.)
Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Toggle bolt. 1,694,493; Dec. 11.
Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Toggle bolt. 1,694,494; Dec. 11.
Toulmin, Harry A., jr., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,694,457; Dec. 11.
Towle Manufacturing Company. (See Nock, Harold E., assignor.)
Townsend, Arthur J. (See Naugle, H. M., and Townsend.)
Trafelet, Robert, Fostoria, assignor to The Yoder Company, Cleveland, Ohio. Machine for rolling sheet metal. 1,694,495; Dec. 11.
Trauger, John W., Binghamton, N. Y., assignor to Fair Play Caramels, Inc. Confection. 1,694,458; Dec. 11.
Treiber Diesel Engine Corporation. (See Bartow, Jack B., assignor.)
Trimble Hat Company, The. (See Busold, William, assignor.)
Troidl, Nellie Y., Niagara Falls, N. Y. Educational appliance. 1,694,405; Dec. 11.
Trojani, Pietro, and C. D'Ascanio, Rome, Italy. Electromechanical recording and controlling achine. 1,694,631; Dec. 11.
Troy Laundry Machinery Company. (See Balzer, Fritz, assignor.)
Truesdell, John G., and W. J. O'Connell, Colorado Springs, Colo. Windshield cleaner. 1,695,163; Dec. 11.
Tucker, Edgar M., South Pasadena, assignor to The Paraffine Companies, Inc., San Francisco, Calif. Flashing structure. 1,694,521; Dec. 11.
Tung-Sol-Lamp Works. (See Bohner, Clyde C., assignor.)
Turner, Edward T., Dayton, Ohio. Water-softening apparatus. 1,694,804; Dec. 11.
Turner Tanning Machinery Company, The. See Böttger, Oskar, assignor.)
Tuttle, Grover G., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate valve. 1,695,069; Dec. 11.
Twin Disc Clutch Company. (See Pearmain, William J., assignor.)
Ubel, Frank A., St. Paul, Minn. Ophthalmic mounting. Des. 77,193; Dec. 11.
Ulbrich, Wilhelm, Jena, Germany. Mercury-vapor lamp. 1,694,836; Dec. 11.

Ulman, Rosanna D., assignor to International Corset Company, Aurora, Ill. Combination corset and brassière. 1,694,693; Dec. 11.
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood, Western, assignor to La Lux Manufacturing Company, Los Angeles, Calif. Lighting post. Des. 77,194; Dec. 11.
Underwood, Western, assignor to La Lux Manufacturing Company, Los Angeles, Calif. Head for lighting posts. Des. 77,195; Dec. 11.
Underwood, Western, assignor of one-half to H. H. Walker, Los Angeles, Calif. Lantern for lighting posts. Des. 77,196; Dec. 11.
Union Oil Company of California. (See Dunham, Robert A., assignor.)
Union Oil Company of California. (See Kalichevsky, Vladimir A., assignor.)
Union Oil Company of California. (See Merrill, David R., assignor.)
Union Switch & Signal Company, The. (See Crago, Paul H., assignor.)
United Autographic Register Company. (See Jensen, Louis, assignor.)
United Engineering & Foundry Company. (See Dodge, Carl Y., assignor.
United Shoe Machinery Corporation. (See Gouldbourn, J., Cooper, and Elliott, assignors.)
United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)
United Shoe Machinery Corporation. (See Knowlton, Norwood H., assignor.)
United Shoe Machinery Corporation. (See Meloon, James W., assignor.)
United Shoe Machinery Corporation. (See Merritt, Matthew M., assignor.)
United Shoe Machinery Corporation. (See Molyneux, George E., assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Gouldbourn, assignors.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United States Gauge Company. (See Bayha, William G., assignor.)
Universal Oil Products Company. (See Egloff, G., and Benner, assignors.)
Van Hoofstadt, Edward. (See Greenbaum, L., Van Hoofstadt, and Gustavson.)
Van Horn, Irving H., East Cleveland, Ohio, assignor to General Electric Company. Base for incandescent lamps or similar articles. 1,694,997; Dec. 11.
Van Rennes, Cornelis, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Air-bag valve. 1,694,872; Dec. 11.
Van Veen, Anton, assignor to The Fuller Brush Company, Hartford, Conn. Marking machine. 1,694,955; Dec. 11.
Varaud, André, Geneva, Switzerland. Mechanical fuse for artillery projectiles. 1,695,070; Dec. 11.
Vento Steel Sash Company. (See Nicles, Hiram W., assignor.)
Vereinigte Schuhfabriken Bemels-Wessels Aktiengesellschaft. (See Schubart, Benno, assignor.)
Vereinigte Stahlwerke Aktiengesellschaft. (See Weber, Friedrich W., assignor.)
Vestine, Andrew O., Philadelphia, Pa. Machine for picking poultry. 1,695,128; Dec. 11.
Vickers, Harry H., Corona, assignor, by mesne assignments, to Elliott-Fisher Company, New York, N. Y. Combined typewriting and computing machine. 1,694,932; Dec. 11.
Victor, Frank, Ridgway, Pa. Flush door. 1,694,522; Dec. 11.
Victor Shoe Machinery Company. (See Johnson, L. E., Hansen, assignors, and McTarnahan.)
Viet, Paul, Billancourt, France. Starting arrangement for internal-combustion engines. 1,695,218; Dec. 11.
Villalpando, Antonio M., Mexico, Mexico. Attachment for revolvers. 1,695,071; Dec. 11.
Vogan, Frank M., assignor of one-half to W. H. Cavnah, Canton, Ohio. Spring support. 1,695,129; Dec. 11.
Volckhausen, Julius, Weehawken, N. J., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y. Rim nut. 1,694,459; Dec. 11.
Von der Lippe-Lipski, Elaine, Atlantic Highlands, N. J. Automatic control for headlights. 1,694,511; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc, New York, N. Y. Ash tray. Des. 77,197; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash receiver. Des. 77,198; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Cigarette container. Des. 77,199; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash tray. Des. 77,200; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 77,201; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 77,202; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 77,203; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Ash receiver. Des. 77,204; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Smoking stand. Des. 77,205; Dec. 11.
Von Frankenberg, Arthur, assignor to Frankart, Inc., New York, N. Y. Lamp. Des. 77,206; Dec. 11.
Vulcan Corporation. (See Clausing, George, assignor.)
Wade, Elmer J. (See Newton, E. G., and Wade.)
Wade, Martin J., Iowa City, Iowa. Diary, memorandum book, etc. 1,694,632; Dec. 11.
Wagner Electric Corporation. (See Weichsel, Hans., assignor.)
Wagner, Hermann, Hochst-on-the-Main, Germany, assignor, by mesne assignments, to Grasselli Dyestuff Corporation, New York, N. Y. Azo dye. 1,695,164; Dec. 11.
Wagner, Hermann, Soden-on-the-Taunus, H. Eichwede, and E. Fischer, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Azo dye and making same. 1,694,568; Dec. 11.
Wait, William, jr. (See Wright, T. P., and Wait.)
Waldman, Herman, Chicago, Ill. Desk set. Des. 77,207; Dec. 11.
Walker, Fletcher L., jr., Westwood, Calif. Rectifying system. 1,694,837; Dec. 11.
Walker, H. H. (See Underwood, Western, assignor.)
Walker, Harry E., Elyria, Ohio. Draft faucet. 1,694,694; Dec. 11.
Walker, Harry L., assignor to Standard Oil Company, Whiting, Ind. Filter press. 1,694,956; Dec. 11.
Walker, Lewis P., Hartford, and L. O. Bergmann, Coloma, Mich. Folding rocking-chair. 1,694,933; Dec. 11.
Walker, Warren R., New Dorp, N. Y., assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Switch mounting. 1,695,260; Dec. 11.
Walsh, Arthur E., Chicago, Ill. Switch. 1,694,569; Dec. 11.
Walsh, Joseph W. (See Goodall, H. W., and Walsh.)
Washburn, Walter B. C., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Distributing device. 1,694,897; Dec. 11.
Wasson, Robert R., Cranford, N. J. Ring-tensioning machine. 1,695,037; Dec. 11.
Watson, Harold L., Highland Park, assignor, by mesne assignments, to American Incubators, Inc., New Brunswick, N. J. Incubator. 1,694,674; Dec. 11.
Watts, Verner, Alliance, assignor to The Sebring Manufacturing Corporation, Sebring, Ohio. Enameled electric percolator. 1,694,570; Dec. 11.
Weber, Friedrich W., Bochum, assignor to the firm: Vereinigte Stahlwerke Aktiengesellschaft, Dusseldorf, Germany. Device for fastening rails. 1,694,898; Dec. 11.
Wedler, Harry G., assignor to The Wedler-Shuford Co., St. Louis, Mo. Seat cushion. 1,695,072; Dec. 11.
Wedler-Shuford Co., The. (See Wedler, Harry G., assignor.)
Weichsel, Hans, assignor to Wagner Electric Corporation, St. Louis, Mo. Alternating-current motor. 1,694,460; Dec. 11.
Weightograph Company, The. (See Shively, Louis S., assignor.)
Weir, Esta O., Chicago, Ill. Serving dish. 1,694,957; Dec. 11.
Wellensiek, Louis H. (See Scott, F. L., and Wellensiek.)
Wellman, Lester R., assignor to Friedley-Voshardt Company, Chicago, Ill. Husk for lighting fixtures. Des. 77,208; Dec. 11.
Wellman, Lester R., assignor to Friedley-Voshardt Company, Chicago, Ill. Husk for lighting fixtures. Des. 77,209; Dec. 11.
Wells, Arthur E., Toronto, Ontario, Canada. Tool for making gratings. 1,694,633; Dec. 11.
Wendell, Constant, Dedham, Mass. Tag. 1,694,998; Dec. 11.
Wenk, Berthold. (See Rabe, P., Stötter, Wenk, and Schepss.)
Werner, George W., Easton, Pa. Coin control for automatic sound reproducers. 1,694,726; Dec. 11.
West, Arthur J., assignor to Bethlehem Steel Company, Bethlehem, Pa. Compressor drive mechanism. 1,694,571; Dec. 11.
Western Electric Company. (See Buckley, Oliver E., assignor.)
Western Electric Company. (See Fearing, Justin L., assignor.)
Western Electric Company. (See Haines, W. T., and Harper, assignor.)
Western Electric Company. (See Hippensteel, Claude L., assignor.)
Western Electric Company. (See Horton, Joseph W., assignor.)
Western Electric Company. (See Jacobsen, E., and Sperry, assignor.)
Western Electric Company. (See Kendall, Burton W., assignor.)
Western Electric Company. (See Lundius, Eric R., assignor.)
Western Electric Company. (See Marrison, Warren A., assignor.)
Western Electric Company. (See Peterson, Eugene, assignor.)
Western Electric Company. (See Shackelton, William J., assignor.)
Westinghouse Electric and Manufacturing Company. (See Innes, William, assignor.)
Weymann, Charles T., Paris, France. Close road-motor-vehicle body. 1,694,572; Dec. 11.
Whirldry Corporation. (See Dunham, George W., assignor.)





White, Edward A., Lewiston, Idaho. Fruit-cleaning mechanism. 1,694,675; Dec. 11.
White, Hedley B. (See Hockley, H. R., and White.)
White, John F., assignor to White Products Company, Chicago, Ill. Waterproof sheet structure. 1,694,523; Dec. 11.
White Products Company. (See White, John F., assignor.)
Whiting, Phineas S., Royal Oak, Mich. Tool container for tire carriers. 1,694,634; Dec. 11.
Wietzel, Gustav, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the Main, Germany. Production of pure carbon monoxide. 1,695,130; Dec. 11.
Wilberg, Henry A., Valley City, N. Dak. Seed planter and packer. 1,695,165; Dec. 11.
Will, Carl H., assignor to C. H. Will Motors Corporation, Minneapolis, Minn. Antifrosting device for windows. 1,694,676; Dec. 11.
Will, Carl H., assignor to C. H. Will Motors Corporation, Minneapolis, Minn. Antifrosting device for windows. 1,694,677; Dec. 11.
Will, C. H., Motors Corporation. (See Will, Carl H., assignor.)
Willamette Iron and Steel Works. (See Spain, Gail E., assignor.)
Willard, James C. (See Parent, Raymond C., assignor.)
Williams, G. H., Company. (See Harrington, Edward L., assignor.)
Williamson, Arba G., Carnegie, assignor to Pittsburgh Train Control Company, Pittsburgh, Pa. Traffic-controlling system. 1,695,131; Dec. 11.
Willits, Leland R., Atlantic City, N. J. Battery water-level indicator. 1,694,609; Dec. 11.
Wilson, Frederick A., London, England. Apparatus for the manufacture of roofing tiles. 1,695,132; Dec. 11.
Wilson, Harry T., Easton, Pa. Holder. 1,695,166; Dec. 11.
Wilson, Onnolee M., Wilton, Conn. Extension side for pans. 1,694,958; Dec. 11.
Wilson, Robert H., et al. (See Chinn, Neil M., assignor.)
Wilson, Theodora B., et al. (See Chinn, Neil M., assignor.)
Wiltse Appliance Company. (See Wiltse, Sumner, assignor.)
Wiltse, Sumner, Detroit, Mich., assignor to Wiltse Appliance Company. Fuel-supply system for internal-combustion engines. 1,694,805; Dec. 11.
Winninghoff, Wilford J., East Orange, assignor to Cooper Hewitt Electric Company, Hoboken, N. J. Thermostatic electric switch. 1,695,261; Dec. 11.
Winslow, Edward N., Shaker Heights, Ohio. Signal mechanism. 1,694,573; Dec. 11.
Winsor, Ray J., Bucyrus, Ohio. Steering device. 1,695,219; Dec. 11.
Winthrop Chemical Company. (See Hahl, H., and Kropp, assignors.)
Wired Radio, Inc. (See Ruhmer, Ernst, assignor.)
Wireless Specialty Apparatus Company. (See Priess, William H., assignor.)
Wirfs, E. J., Organization, Inc. (See Wirfs, Edward J., jr., assignor.)
Wirfs, Edward J., jr., Glendale, assignor to E. J. Wirfs Organization, Inc., St. Louis, Mo. Gasket. 1,695,073; Dec. 11.
Witter, Willis D., and J. A. Harte, Utica, N. Y., assignors, by mesne assignments, to American La France and Foamite Corporation. Motor fire apparatus. 1,694,574; Dec. 11.
Wittlinger, Richard. Goppingen, Germany. Knife. 1,694,999; Dec. 11.
Wolf, Walter F., New York, N. Y. Loose-leaf binder. 1,695,220; Dec. 11.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Company, Inc. Radiocabinet. Des. 77,211; Dec. 11.
Wolff, Walther, Copenick, Berlin, Germany, assignor to General Electric Company. Method and apparatus for testing telephone circuits. 1,695,000; Dec. 11.
Wood, Charles A., Clay Center, Kans. Mold. 1,695,001; Dec. 11.
Wood, Frederick H., assignor to L. B. Wood, Chicago, Ill. Circulating air past the heating surfaces of warm air furnaces for heating buildings which provides fresh air and ventilation. 1,695,262; Dec. 11.
Wood Hydraulic Hoist & Body Company. (See Barrett, Edward R., assignor.)
Wood, Lettie B. (See Wood, Frederick H., assignor.)
Woodall-Duckham (1920) Limited. (See Krall, Reginald F., assignor.)
Worthington, Everett, assignor to Brandes Laboratories, Inc., Newark, N. J. Radiocabinet. Des. 77,210; Dec. 11.
Wright, Theodore P., Port Washington, and W. Wait, jr., Garden City, N. Y., assignors to Curtiss Aeroplane & Motor Co., Inc. Rudder-operating mechanism for aircraft. 1,694,496; Dec. 11.
Wurdack Electric Manufacturing Company. (See Wurdack, William, jr., assignor.)
Wurdack, William, jr., assignor to Wurdack Electric Manufacturing Company, St. Louis, Mo. Electric snap switch. 1,694,899; Dec. 11.
Xippas, Socrates A., Pittsburgh, Pa. Electric fan. 1,695,002; Dec. 11.
Yale, Frank H., Alameda, assignor of one-half to C. B. Sovig, San Francisco, Calif. Spraying machine. 1,694,806; Dec. 11.
Yates Lumber Company. (See Allen, Charles H., assignor.)
Yeomans, Alfred M. (See Clark, L. R., and Yeomans.)
Yoder Company, The. (See Trafelet, Robert, assignor.)
Young, Fred M., Racine, Wis. Radiator. 1,694,696; Dec. 11.
Young, Henry R., Muskegon, Mich. Piston for internal-combustion engines. Re17,159; Dec. 11.
Young, Leo C. (See Taylor, A. H., and Young.)
Zellmann, Rudolf, Radebeul, and D. Lammering, Brunswick, assignors to Chemische Fabrik von Heyden, Radebeul-Dresden, Germany. Plant disinfectant and producing the same. 1,694,497; Dec. 11.
Zendron, Benjamin, Craig, Colo. Planter. 1,695,074; Dec. 11.
Zentner, Karl, Frankfort-on-the-Main, Germany. Apparatus for kneading and forming amalgams. 1,694,524; Dec. 11.
Zimmerer, Frederick J., jr., assignor to The Russell Manufacturing Company, Middletown, Conn. Elastic fabric. Des. 77,212; Dec. 11.
Zimmerling, Otto E., Wauwatosa, Wis. Bowling-ball-polishing attachment for pin trimming and polishing machines. 1,694,900; Dec. 11.
Zimmerman, Earl W., Syracuse, N. Y. Roller for conveyers. 1,695,075; Dec. 11.
Zohe, Ludwig A., Syracuse, N. Y. Liquid container, nursing bottle. 1,695,076; Dec. 11.
Zubaty, Joseph. (See Spencer, L. M., and Zubaty.)
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Clock construction. 1,694,760; Dec. 11.
Zubaty, Joseph, assignor to A C Spark Plug Company, Flint, Mich. Connection of flexible shaft to speedometer. 1,694,761; Dec. 11.
Zukor, Arnold, and H. Irmscher, New York, N. Y. Combined door fastener and alarm. 1,695,077; Dec. 11.
Zwicky, Jean, London, England. Pump. 1,694,610; Dec. 11.

# ALPHABETICAL LIST OF INVENTIONS.

FOR WHICH

## PATENTS WERE ISSUED ON THE 11TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Abrading machine. A. N. Emmons. 1,695,090; Dec. 11.
Acid and soap derived from mineral oil and making same. Fatty. G. Alleman. 1,694,461; Dec. 11.
Acid, Determining gaseous carbonic. H. Schmick. 1,695,031; Dec. 11.
Adding and listing machine. O. J. Sundstrand. 1,694,803; Dec. 11.
Addressing machine. H. P. Elliott. 1,694,619; Dec. 11.
Advertising device, Airplane. L. Barker. 1,695,078; Dec. 11.
Aiming of turrets comprising several guns, Device for the horizontal. R. de Courseulles. 1,694,843; Dec. 11.
Air cleaner. H. G. Kamrath. 1,694,784; Dec. 11.
Air compressor. R. D. Conklin. 1,694,583; Dec. 11.
Air cooler. J. Price. 1,694,395; Dec. 11.
Aircraft or the like, Propulsion means for. R. Nuttall. 1,694,602; Dec. 11.
Aircraft, Rudder-operating mechanism for. T. P. Wright and W. Walt, jr. 1,694,496; Dec. 11.
Airplane. C. J. Leisy. 1,695,114; Dec. 11.
Airship. J. D. Langdon. 1,694,880; Dec. 11.
Air spring. J. A. Heany. 1,694,821; Dec. 11.
Alarm for automobiles. Z. A. Curtis. 1,694,842; Dec. 11.
Alcohol, Making isopropyl. G. O. Curme, Jr., and E. W. Reid. 1,695,249; Dec. 11.
Aldehyde, Purification of butyric. C. Bogin. Re17,157; Dec. 11.
Alloy, Magnetic. O. E. Buckley. 1,695,038; Dec. 11.
Amalgamator attachment. I. G. Bergh and L. Nelsen. 1,694,678; Dec. 11.
Amalgams, Apparatus for kneading and forming. K. Zentner. 1,694,524; Dec. 11.
Anchor, Rail. R. E. Keough. 1,694,878; Dec. 11.
Anchor rod. R. Gould. 1,694,739; Dec. 11.
Annealing furnace. F. T. Cope. 1,694,684; Dec. 11.
Antifrosting device for windows. C. H. Will. 1,694,676–7; Dec. 11.
Antioxidant or age resistor. A. M. Clifford. 1,694,529; Dec. 11.
Applicator-securing means. E. R. Goldfield and C. Horsely. 1,694,649; Dec. 11.
Arch supporter. M. E. Christianson. 1,694,582; Dec. 11.
Armature, Making an. V. G. Apple. 1,694,464; Dec. 11.
Asbestos and the like and resulting product, Finishing the surfaces of bonded. J. C. Macildowie. 1,695,253; Dec. 11.
Ash receiver. A. von Frankenberg. Des. 77,198; Dec. 11.
Ash receiver. A. von Frankenberg. Des. 77,204; Dec. 11.
Ash tray. A. von Frankenberg. Des. 77,197; Dec. 11.
Ash tray. A. von Frankenberg. Des. 77,200; Dec. 11.
Assembling filter-stack units. V. R. Heftler. 1,694,939; Dec. 11.
Atomizer. L. C. Ament. 1,694,959; Dec. 11.
Auger, Coal. A. Suarez. 1,694,994; Dec. 11.
Automatic elevator. D. C. Larson. 1,694,823; Dec. 11.
Automatically-controlled burner. L. S. Chadwick. 1,694,501; Dec. 11.
Automobile body. J. Ledwinka. 1,694,883; Dec. 11.
Automobile heater. P. E. Diederich and M. G. Roberts. 1,694,412; Dec. 11.
Automobile lock. O. S. Hershey. 1,694,506; Dec. 11.
Automobiles, Water-circulation-control mechanism for. J. A. Morgan. 1,695,055; Dec. 11.
Auxiliary lock. G. H. Bocklus. 1,695,136; Dec. 11.
Auxiliary switch. C. D. Ainsworth. 1,694,611; Dec. 11.
Bag and making it, Multiplex. W. L. Taylor. 1,694,455; Dec. 11.
Ball ear and attaching same. J. R. Edwards. 1,694,775; Dec. 11.
Baseball game, Electric. J. M. Prentice. 1,694,721; Dec. 11.
Base-exchange body. A. O. Jaeger. 1,694,620; Dec. 11.
Bathing cap. O. A. Bigler. 1,695,005; Dec. 11.
Battery: *See*—
  Storage battery.
Bearing. N. M. Chinn. 1,694,438; Dec. 11.
Bearing for reversible furniture backs. I. Hoffman. 1,695,102; Dec. 11.
Beater, Egg. J. O. H. Cazenove. 1,694,500; Dec. 11.
Beet cleaner. A. and A. Gudmundsen. 1,694,817; Dec. 11.
Bed. G. Herz. 1,694,940; Dec. 11.
Bed, Folding. H. A. Joselowitz. 1,694,420; Dec. 11.
Belt, Expansion. C. Horix. 1,694,944; Dec. 11.
Bending machine for bending plates or strips of sheet metal. H. C. Dreis. 1,694,585; Dec. 11.
Billing device. J. L. Garfield. 1,694,647; Dec. 11.
Binder, Loose-leaf. F. A. Diestelkamp. 1,694,846; Dec. 11.
Binder, Loose-leaf. W. F. Wolf. 1,695,220; Dec. 11.
Blackboard hanger. G. G. Albert. 1,694,433; Dec. 11.
Blade construction. J. Daw. 1,694,410; Dec. 11.
Board: *See*—
  Indicator board. Lath board.
Bobbins, spools, or the like, Manufacture of. C. W. Palmer. 1,694,428; Dec. 11.
Boll-breaking and cotton-separating machine. J. E. Mitchell. 1,694,480; Dec. 11.
Bolt: *See*—
  Toggle bolt.
Bolt and rod cutter. O. B. Pickett. 1,694,561; Dec. 11.
Bolt for automobiles, Pivot. A. G. Bush. 1,694,681; Dec. 11.
Book-match machine. L. Greenbaum, E. Van Hoofstadt, and C. Gustavson. 1,694,505; Dec. 11.
Boot or shoe and manufacturing same. F. M. Bohr. 1,695,225; Dec. 11.
Booth construction. W. S. Kapnek. 1,694,920; Dec. 11.
Bore and producing same, Precision. H. Kuckuck. 1,695,017; Dec. 11.
Bottle cap. W. Glass. 1,694,851; Dec. 11.
Bottle closure, Milk-. D. H. Kane. 1,695,190; Dec. 11.
Bottle, Liquid container, nursing. L. A. Zohe. 1,695,076; Dec. 11.
Bottle-opening implement. W. C. Hiering. 1,695,098; Dec. 11.
Box: *See*—
  Outlet box.
Box. B. L. Drapeau. 1,695,143; Dec. 11.
Brace clip, Shore-. C. L. Meyer. 1,694,887; Dec. 11.
Bracing, Furniture. L. R. Clark and A. M. Yeomans. 1,695,189; Dec. 11.
Bracket: *See*—
  Mitered-joint bracket.
Bracket. W. C. Skinner. 1,695,213; Dec. 11.
Brake: *See*—
  Liquid-pressure brake. Vehicle brake.
  Skate brake.
Brake-shoe head, Reversible. W. C. Sleeman. 1,694,989; Dec. 11.
Brake system, Air-. F. H. Dukesmith. 1,695,245; Dec. 11.
Brick and making the same, Sintered magnesite. K. Harr. 1,694,540; Dec. 11.
Brick delivering and stacking means. L. N. Dyhrberg. 1,694,586; Dec. 11.
Bridge, Ferry. A. T. Prescott. 1,694,516; Dec. 11.
Brooch or similar article. B. Mechlovits. Des. 77,177–80; Dec. 11.
Brush. W. Reese. 1,695,124; Dec. 11.
Brush, Automobile cleaning. R. M. Cummins. 1,694,733; Dec. 11.
Brush-filling apparatus and filling brush pads. W. T. Sherman. 1,695,159; Dec. 11.
Brush, Shaving. A. Albright. 1,694,364–5; Dec. 11.
Brush, Shaving. R. D. De Villegas. 1,695,141; Dec. 11.
Buckle, Slide. C. A. Mosgrove. 1,695,056; Dec. 11.
Builder for spinning mules, Buch. T. H. Riley and A. H. Flint. 1,695,028; Dec. 11.
Buildings, Construction. V. D. Hedden. 1,694,542; Dec. 11.
Buildings, Highway. J. K. Hencken. 1,694,383; Dec. 11.
Bumper for airships, Landing. E. Brunner. 1,694,873; Dec. 11.
Bumpers, Plate for vehicle. H. S. Jandus and J. R. Morgan. Des. 77,157; Dec. 11.
Burner: *See*—
  Liquid-fuel burner. Oil burner.
Burning system, Liquid-fuel-. W. T. Dean. 1,694,772; Dec. 11.
Button. C. W. Stuart. 1,694,802; Dec. 11.
Button, Pin-attached. G. A. King. 1,695,252; Dec. 11.
Cabinet, Dry-heat bath. A. A. Landon. 1,694,858; Dec. 11.
Cabinet, Towel. F. M. Steiner and G. Olson. 1,694,991; Dec. 11.
Cable clamp. E. K. Cole. 1,694,683; Dec. 11.
Camera, Photographic. R. F. Morejon. 1,694,750; Dec. 11.
Can: *See*—
  Rust-resisting can.
Can-body-making machines, Blank feeding and positioning mechanism for. P. Kruse. 1,694,387; Dec. 11.
Car bodies, Box-girder construction for. G. D. Fraunfelder. 1,694,537; Dec. 11.
Car, Motor. V. Lancia. 1,694,546; Dec. 11.
Car, Railway. E. H. Mattingley. 1,694,424; Dec. 11.
Carbon monoxide, Production of pure. G. Wietzel. 1,695,130; Dec. 11.
Carburetor. J. Juhasz. 1,694,386; Dec. 11.
Carburetor. G. Lamoureux. 1,695,112; Dec. 11.





Cards, Set of playing. O. Kubatzky. Des. 77,159–61; Dec. 11.
Carrier: *See*—
  Tire carrier.
Carrier for bottle coolers. J. M. and W. G. Schilling. 1,694,929; Dec. 11.
Carton. B. L. Huntley. 1,695,104; Dec. 11.
Case: *See*—
  Crank and like case. Vanity case.
  Packing case.
Casing for antifriction bearing. D. F. Good. 1,695,146; Dec. 11.
Casing for mechanical exercisers. F. E. Marcy. Des. 77,176; Dec. 11.
Casing, Plaster. W. S. Thomas. 1,694,673; Dec. 11.
Casting machine, Centrifugal. J. A. and D. S. Gardner. 1,694,504; Dec. 11.
Casting, Striking. D. S. Barrows. 1,694,960; Dec. 11.
Cell element and making the same, Dry-. L. G. Jenness. 1,694,919; Dec. 11.
Cellulose-ester article and making same, Decorated. A. S. Donaldson. 1,694,847; Dec. 11.
Cementing wells. A. H. Hobart. 1,694,419; Dec. 11.
Centrifugal extractor. F. Balzer. 1,694,614; Dec. 11.
Centrifugal operating mechanism. W. J. Branson. 1,694,700; Dec. 11.
Centrifugal separator. J. I. Fritz. 1,694,972; Dec. 11.
Chain, Drive and conveyer. E. E. Landahl. 1,694,746; Dec. 11.
Chair: *See*—
  Folding chair. Rocking-chair.
Chair. C. A. Brown. 1,694,617; Dec. 11.
Chair. J. L. Cable. 1,694,935; Dec. 11.
Check, Rebound. N. F. McNaught. 1,694,549; Dec. 11.
Christmas tree, Artificial. C. H. Glover. 1,694,974; Dec. 11.
Chuck for crank handles. C. C. Hansen. 1,694,380; Dec. 11.
Cigar cutter, ash tray, and lighter, Combined. K. Sjoestroem. Des. 77,190; Dec. 11.
Circuit-controlling device and system employing the same. C. I. Hall. 1,694,977; Dec. 11.
Circuits, Translating. W. A. Marrison. 1,695,051; Dec. 11.
Circulating air past the heating surfaces of warm-air furnaces for heating buildings which provide fresh air and ventilation. F. H. Wood. 1,695,262; Dec. 11.
Clamp: *See*—
  Cable clamp. Hose clamp.
Clamp plate. H. S. Jandus and J. R. Morgan. Des. 77,155–6; Dec. 11.
Clarifier, Sound. E. H. Freeborn. 1,694,848; Dec. 11.
Clarifying, decoloring, and neutralizing oils. D. R. Merrill. 1,695,198; Dec. 11.
Cleaner: *See*—
  Air cleaner. Roll cleaner.
  Beet cleaner. Tooth cleaner.
  Furnace cleaner. Tube cleaner.
  Mop cleaner. Windshield cleaner.
  Razor cleaner.
Cleaning device. J. S. Reed. 1,695,023; Dec. 11.
Clip: *See*—
  Brace clip.
Clock construction. J. Zubaty. 1,694,760; Dec. 11.
Closure for sifter-top cans. J. M. Hothersall. 1,694,781; Dec. 11.
Clothes drier. J. MacFarlane. 1,695,151; Dec. 11.
Clutch. N. Le Van. 1,695,150; Dec. 11.
Clutch. W. J. Pearmain. 1,694,980; Dec. 11.
Clutch arrangement for laundry machines, Automatic. G. W. Dunham. 1,694,810; Dec. 11.
Clutch, Free-wheel. D. S. de Lavaud. 1,694,377; Dec. 11.
Coffeepot, Individual. C. V. Ryan. Des. 77,186; Dec. 11.
Coin control for automatic sound reproducers. G. W. Werner. 1,694,726; Dec. 11.
Coin-trip mechanism for personal weighing scales. L. S. Shively. 1,695,066; Dec. 11.
Coking process and product, Pitch-. F. W. Sperr, jr. 1,694,800; Dec. 11.
Collar, Horse. J. M. Angel. 1,695,167; Dec. 11.
Combination lock. H. C. Coy. 1,694,968; Dec. 11.
Combustion chamber, Radiating. A. E. Nash and J. S. Alcorn. 1,694,393; Dec. 11.
Combustion engine. J. Good. 1,695,186; Dec. 11.
Compressor drive mechanism. A. J. West. 1,694,571; Dec. 11.
Compressor, Hinged. E. Ohnstrand. 1,695,257; Dec. 11.
Compressor, Lubricant. E. Piquerez. 1,694,624; Dec. 11.
Concrete, Curing. D. Finley and W. L. Rhoades. 1,694,588; Dec. 11.
Concrete distributors, Boom track for bucket. J. E. Bushnell. 1,694,372; Dec. 11.
Concrete walls, Method of and apparatus for forming hollow. E. W. Marten. 1,694,826; Dec. 11.
Condenser and indicating means, Electrical. H. F. Herman. 1,694,384; Dec. 11.
Condenser, Electrical. W. H. Priess. 1,695,060; Dec. 11.
Condenser structure. H. E. Rice and R. C. Da Costa. 1,694,927; Dec. 11.
Conductor, Hollow. W. H. Bassett. Re17,156; Dec. 11.
Conduit, Flexible tubular. R. P. Jacques. 1,695,263; Dec. 11.
Confection. J. W. Trauger. 1,694,458; Dec. 11.
Confectionery, Device for dispowdering. C. Göpel. 1,694,590; Dec. 11.
Confectionery, Manufacture of. W. E. Bamford. 1,694,576; Dec. 11.
Contact device for electrically-energized implements. M. W. McArdle. 1,694,715; Dec. 11.
Container. R. Cullinan. 1,694,584; Dec. 11.
Container, Cigarette. A. von Frankenberg. Des. 77,199; Dec. 11.
Container for tire carriers, Tool. P. S. Whiting. 1,694,634; Dec. 11.
Container, Metal. W. W. Hodgson. 1,695,100; Dec. 11.
Containers, Apparatus for manufacturing. C. R. Robinson. 1,694,627; Dec. 11.
Control apparatus, Dual-. J. T. Hickman. 1,694,916; Dec. 11.
Control device. L. Ruffo. 1,694,797; Dec. 11.
Control means for prime movers, Auxiliary. A. M. Goodwin. 1,694,975; Dec. 11.
Control means for quenching coke, Automatic. C. Hyman. 1,695,105; Dec. 11.
Control of induction motors, Speed. H. K. Schrage. 1,694,984–5; Dec. 11.
Control system, Automatic. H. Bany and H. T. Seeley. 1,695,004; Dec. 11.
Controlling the feed of gasoline engines. C. H. Hapgood. 1,694,469; Dec. 11.
Conveyer. J. Lockhart. 1,695,115; Dec. 11.
Conveyer. H. H. Morgan. 1,694,054; Dec. 11.
Conveyer, Portable. H. H. Barber. Re17,160; Dec. 11.
Cooker and cooler, Combined. A. R. Thompson. 1,694,996; Dec. 11.
Cooker, Electric. P. Ackerman. 1,694,762; Dec. 11.
Cooking utensil, Internal-heat-circulating. W. R. Dick. 1,694,773. Dec. 11.
Cooking vessel. H. L. Goodwin. 1,694,378; Dec. 11.
Cooler: *See*—
  Air cooler.
Cooling and dispensing machine. C. F. Bauer. 1,694,436; Dec. 11.
Cooling and drying materials. E. B. Brown. 1,694,807; Dec. 11.
Cooling system, Engine-. S. W. Rushmore. 1,694,397; Dec. 11.
Cord-holding structure. O. H. Pieper. 1,694,669; Dec. 11.
Corset and brassière, Combination. R. D. Ulman. 1,694,693; Dec. 11.
Cotter pin, Self-locking. E. W. Langton and A. G. Dawson. 1,695,113; Dec. 11.
Cotton batting for shipment and use, Preparing. M. J. Stack. 1,694,954; Dec. 11.
Cotton-working apparatus. L. W. Penney and H. E. Child. 1,694,950; Dec. 11.
Coupler, Air and steam line. F. Jacobs. 1,694,744; Dec. 11.
Coupler, Car. W. Kelso. 1,695,015; Dec. 11.
Coupler, Car. W. J. Regan and W. Kelso. 1,695,024; Dec. 11.
Coupler, Car. W. J. Regan and W. Kelso. 1,695,026; Dec. 11.
Coupling: *See*—
  Universal coupling.
Cover, Box. E. Arnold and H. Templeton. 1,695,222; Dec. 11.
Cover, Box. F. J. Schleicher. 1,694,892; Dec. 11.
Cover, Slip. A. Cohen. 1,695,244; Dec. 11.
Cowl ventilator. R. Beringer. 1,694,764; Dec. 11.
Crank and like case. E. Fejes. 1,694,535; Dec. 11.
Crating furniture, Method of and apparatus for. A. P. Kivlin. 1,694,508; Dec. 11.
Crib and adjustable spring-bottom support therefor. F. Kusterle. 1,694,659; Dec. 11.
Crushing machine. W. K. Liggett. 1,694,423; Dec. 11.
Culvert, Concrete. J. B. Fender. 1,694,736; Dec. 11.
Curling means, Hair-. M. Rogier. 1,694,672; Dec. 11.
Current motor, Alternating-. H. Weichsel. 1,694,460; Dec. 11.
Cushion: *See*—
  Seat cushion.
Cut-out, High-voltage primary. E. G. Newton and E. J. Wade. 1,694,979; Dec. 11.
Cutter: *See*—
  Bolt and rod cutter. Sheet-metal cutter.
  Paper cutter.
Cutter cone for well drills. F. L. Scott and L. H. Wellensiek. 1,694,869; Dec. 11.
Cutting apparatus, Metal-. S. B. Stine. 1,694,567; Dec. 11.
Cutting attachment for mills, Cane-. I. Merlis. 1,695,196; Dec. 11.
Cutting tapered threads, Die head for. H. T. Shearer. 1,695,158; Dec. 11.
Damper, Stove. R. W. Griswold. 1,694,740; Dec. 11.
Decolorizing kerosene, gasoline, and similar light petroleum distillates. V. A. Kalichevsky. 1,695,251; Dec. 11.
Delinquency alarm, Watchman's. E. F. Geiger. 1,695,092; Dec. 11.
Delivering the tufts of textile fibers from combing machines having intermittently-rotating nipper drums, Device for. C. Schleifer. 1,694,432; Dec. 11.
Dental device. H. E. Barker. 1,694,636; Dec. 11.
Desk set. H. Waldman. Des. 77,207; Dec. 11.
Desk set, Fountain-pen. C. Horix. 1,694,918; Dec. 11.
Diagnoser, Engine-trouble. J. H. Richards. 1,694,670; Dec. 11.

Diary, memorandum book, etc. M. J. Wade. 1,694,632; Dec. 11.
Dirigible mounting and control mechanism therefor. G. W. H. Long. 1,694,477; Dec. 11.
Discharge-device system, High-efficiency. J. L. Fearing. 1,695,042; Dec. 11.
Discharge tube, Electric. C. Bol. 1,695,226; Dec. 11.
Dish, Serving. E. O. Weir. 1,694,957; Dec. 11.
Disinfectant and producing the same, Plant. R. Zellmann and D. Lammering. 1,694,497; Dec. 11.
Dispensing device. G. G. Floyd. 1,694,812; Dec. 11.
Dispensing device. F. S. Morrison. 1,694,925; Dec. 11.
Dispensing device for safety matches. R. G. Seel. 1,694,930; Dec. 11.
Dispersing irritants, Process and apparatus for. D. B. Bradner and N. E. Oglesby. 1,695,228; Dec. 11.
Display device. R. B. Meller. 1,694,551; Dec. 11.
Display device. A. P. Thursby. 1,695,036; Dec. 11.
Displaying lantern slides bearing advertisements or other matter, Apparatus for automatically. S. C. Ryder. 1,695,029; Dec. 11.
Distributing device. W. B. C. Washburn. 1,694,897; Dec. 11.
Distributor. G. C. Jett. 1,694,657; Dec. 11.
Doll. G. S. Morahan. Des. 77,181; Dec. 11.
Doll, Mechanical. A. Gyger. 1,694,976; Dec. 11.
Door, Automobile. J. Ledwinka. 1,694,823; Dec. 11.
Door, Flush. F. Victor. 1,694,522; Dec. 11.
Door for hogpens. J. W. Lafferty. 1,694,598; Dec. 11.
Door opener, Furnace-. A. W. Hunt. 1,694,686; Dec. 11.
Door-operating device. J. F. Russell and H. E. Rufty. 1,694,431; Dec. 11.
Doorstop. G. G. Meliem. 1,694,550; Dec. 11.
Doors of tramway or like vehicles, Apparatus for operating and controlling the. H. R. Hockley and H. B. White. 1,694,543; Dec. 11.
Doors, Safety device for. A. W. Parsons. 1,694,394; Dec. 11.
Draft tube, Hydraulic. L. F. Moody. 1,695,200; Dec. 11.
Drawing apparatus. D. C. Kinnear. 1,694,922; Dec. 11.
Drawing frame. H. Kluftinger. 1,694,510; Dec. 11.
Drier: *See*—
  Clothes drier.
  Rotary drier.
Drill: *See*—
  Track drill.
Drilling rigs, Water head for. D. W. McElroy. 1,695,019; Dec. 11.
Drills, Head mount for multiple. R. M. Galloway. 1,694,814; Dec. 11.
Dump body. R. E. Smith and R. J. Arnold. 1,695,034; Dec. 11.
Dumping table. W. H. Grady. 1,694,591; Dec. 11.
Dusting apparatus, Seed-. B. F. Gustafson. 1,694,442; Dec. 11.
Dye, Azo. H. Wagner. 1,695,164; Dec. 11.
Dyestuff from naphthidine, Manufacture of. G. Le Floch. 1,694,884; Dec. 11.
Dyeing. A. Bodmer. 1,694,526; Dec. 11.
Dyeing, printing, or stenciling of cellulose acetate. G. H. Ellis. 1,694,414; Dec. 11.
Dyeings fast to light, Producing. P. Rabe, H. Stötter, B. Wenk, and W. Schepss. 1,694,562; Dec. 11.
Dyes and making same, Azo. H. Wagner, H. Eichwede, and E. Fischer. 1,694,568; Dec. 11.
Dynamic and efficiency meter. E. Peters. 1,694,718; Dec. 11.
Eaves-trough hanger. H. R. Poulsen. 1,695,059; Dec. 11.
Educational appliance. N. Y. Troidl. 1,694,405; Dec. 11.
Elastic fabric. F. J. Zimmerer, jr. Des. 77,212; Dec. 11.
Electric bulbs and bulb blanks for use therein, Manufacturing. C. C. Bohner. 1,694,368; Dec. 11.
Electric furnace. C. B. Foley. 1,694,536; Dec. 11.
Electric furnace, Induction. E. F. Northrup. 1,694,791; Dec. 11.
Electric regulator. H. M. Stoller. 1,695,035; Dec. 11.
Electric switch. J. L. Milton. 1,694,479; Dec. 11.
Electric switch, Thermostatic. W. J. Winninghoff. 1,695,261; Dec. 11.
Electric switches, Contact structure for. C. D. Ainsworth. 1,694,612; Dec. 11.
Electrical apparatus and switch. G. A. Burnham. 1,694,618; Dec. 11.
Electrical conductivity and the flexibility of metals or alloys, Increasing the. K. Hallmann. 1,695,044; Dec. 11.
Electrical system. R. C. Clinker. 1,694,966; Dec. 11.
Electrical system, High-frequency. A. H. Taylor and L. C. Young. 1,694,895; Dec. 11.
Electrolyte and electrolytic apparatus. R. E. Hall. 1,694,653; Dec. 11.
Elevating popped corn and delivering it, Apparatus for. G. H. Hartman. 1,694,381; Dec. 11.
Elevator: *See*—
  Automatic elevator.
Elevator system. D. L. Lindquist and D. C. Larson. 1,694,712; Dec. 11.
Emulsifying apparatus. G. L. Fish. 1,694,589; Dec. 11.
Engine: *See*—
  Combustion engine.
  Internal-combustion engine.
  Rotary engine.
Evaporation, Recovering values by. H. W. Carr. 1,694,841; Dec. 11.
Expander for sealing rings. D. M. Solenberger. 1,694,566; Dec. 11.
Extractor: *See*—
  Centrifugal extractor.
  Honey extractor.
  Vapor extractor.
Fan, Electric. S. A. Xippas. 1,695,002; Dec. 11.
Fastener and alarm, Combined door. A. Zukor and H. Irmscher. 1,695,077; Dec. 11.
Fastener, Flexible seam. D. Heller. 1,694,915; Dec. 11.
Fastener, Window. L. F. Kloos and M. F. Hatcher. 1,695,108; Dec. 11.
Fastener, Window. H. W. Nicles. 1,694,662; Dec. 11.
Fastening-inserting machine. W. T. B. Roberts. 1,694,451; Dec. 11.
Fastening rails, Device for. F. W. Weber. 1,694,898; Dec. 11.
Fastening, Shiftable nut. F. S. Carr. 1,694,580; Dec. 11.
Fats, Preparation of edible. W. B. McLaughlin. 1,694,391; Dec. 11.
Faucet, Draft. H. E. Walker. 1,694,694; Dec. 11.
Feed control, Liquid-. R. G. Jones. 1,694,621; Dec. 11.
Feed-control means for internal-combustion engines. J. B. Bartow. 1,694,367; Dec. 11.
Feeder, Sheet. W. M. Kelly. 1,694,745; Dec. 11.
Feeding device, Centrifugal-separator. V. J. Gilmore. 1,694,468; Dec. 11.
Feeding fuel by waste heat. J. A. Dienner. 1,649,911; Dec. 11.
Feeding mechanism, Sheet-. L. E. Morrison. 1,694,717; Dec. 11.
Fence, Portable guard. J. Peppin. 1,694,753; Dec. 11.
Fender for sweepers. J. R. Gammeter. 1,695,246; Dec. 11.
Ferrule, Harness. M. Miller. 1,694,716; Dec. 11.
Fertilizer. G. Barsky and F. W. Freise. 1,695,081; Dec. 11.
Filing mechanism for autographic registers. L. Jensen. 1,694,782; Dec. 11.
Filling root canals, Apparatus for. I. Kulik. 1,694,857; Dec. 11.
Filter. C. P. Eisenhauer. 1,694,467; Dec. 11.
Filter for air and other gases. E. L. Joseph. 1,695,237; Dec. 11.
Filter press. H. L. Walker. 1,694,956; Dec. 11.
Finger ring. H. Quast. 1,695,157; Dec. 11.
Finishing machine, Cloth-. C. G. Richardson. 1,694,865; Dec. 11.
Fish bait, Weedless. F. W. Beidatsch. 1,694,697; Dec. 11.
Flanging can bodies and flanging head for carrying out the same. H. A. Fink. 1,695,232; Dec. 11.
Flashing structure. E. M. Tucker. 1,694,521; Dec. 11.
Floor-finishing apparatus. G. Geary. 1,694,738; Dec. 11.
Flooring, Rubber. V. Lefebure. 1,694,476; Dec. 11.
Flowers, Manufacture of artificial. R. J. de Gerson. 1,694,844; Dec. 11.
Focusing device, Lamp-. S. E. Brown. 1,694,765; Dec. 11.
Focusing device, Universal. J. F. Pagendarm. 1,694,830; Dec. 11.
Folding chair. L. H. McKee. 1,695,117; Dec. 11.
Folding method and article produced thereby. A. R. Ridderstrom. 1,694,796; Dec. 11.
Food product and producing the same. E. F. Burton and J. H. Montgomery. 1,694,680; Dec. 11.
Forming machine, Ball-. M. W. Magann. 1,695,195; Dec. 11.
Forming machine, Ridge-cap. J. and H. Fulenwider, E. W. Robinson, and H. Norris. 1,694,440; Dec. 11.
Formula, Cheese. H. H. and A. H. Kaufmann. 1,694,921; Dec. 11.
Frame: *See*—
  Drawing frame.
  Picture frame.
  Reflector frame.
  Saw frame.
  Side frame.
Framing for metal furniture. P. E. Huetten. 1,694,656; Dec. 11.
Frog for violin bows. H. Ostrovsky. 1,695,020; Dec. 11.
Fruit-cleaning mechanism. E. A. White. 1,694,675; Dec. 11.
Fuel regulator, Automatic. C. L. Stokes. 1,694,801; Dec. 11.
Fuel-supply system for internal-combustion engines. S. Wiltse. 1,694,805; Dec. 11.
Funnel, Portable liquid-recording. D. G. Milligan. 1,695,053; Dec. 11.
Furnace: *See*—
  Annealing furnace.
  Electric furnace.
  Heat-treating furnace.
  Induction furnace.
  Pot furnace.
  Regenerative furnace.
Furnace arch. W. M. Duncan. 1,694,534; Dec. 11.
Furnace cleaner. A. Brest. 1,695,169; Dec. 11.
Furnace for reduction of iron. C. M. Day and C. J. Scullin. 1,694,376; Dec. 11.
Furnaces, Air feed for hot-air. E. G. Miller. 1,694,392; Dec. 11.
Furniture, Reversible back for upholstered. I. Hoffman. 1,695,101; Dec. 11.
Fuse for artillery projectiles, Mechanical. A. Varaud. 1,695,070; Dec. 11.
Fusee and carrying case, Knockdown. W. C. McMurray. 1,695,052; Dec. 11.
Gag and tongue holder, Mouth. B. F. Bell, sr. 1,695,168; Dec. 11.
Gambrel, Hog. W. W. Brainard. 1,695,138; Dec. 11.
Game. E. Edwards. 1,695,144; Dec. 11.
Game. L. S. Gunderman. 1,694,819; Dec. 11.





Game. R. C. Parent. 1,695,120; Dec. 11.
Game board and score counter, Combination. J. B. Buckley. 1,694,965; Dec. 11.
Game, Motion-picture card. J. O. Miranda. 1,694,748; Dec. 11.
Gases to be used in the production of ammonia, Purification of. B. F. Halvorsen. 1,694,594; Dec. 11.
Gasket. E. J. Wirfs, jr. 1,695,073; Dec. 11.
Gasoline from gas, Combined absorption and fractionation for recovering. E. R. Cox and D. A. Cushman. 1,695,139; Dec. 11.
Gasoline, Manufacture of natural. H. E. Thompson. 1,695,102; Dec. 11.
Gauge: *See*—
  Level gauge.
  Liquid-level gauge.
Gauge. W. G. Bayha. 1,694,838; Dec. 11.
Gear and reverse for motor vehicles and other machines, Variable-speed. H. B. Murray. 1,694,554; Dec. 11.
Gear for motor cars or other power-propelled vehicles, Change-speed. N. E. E. Sörensen. 1,695,214; Dec. 11.
Gear for motor vehicles, Running. E. W. Templin. 1,695,259; Dec. 11.
Gear, Valve. G. Fornaca. 1,695,011; Dec. 11.
Gearing adjustment, Elevator-. F. L. Obler. 1,694,663; Dec. 11.
Gearing, Variable-speed. W. S. F. Brown and J. Maina. 1,694,808; Dec. 11.
Glare shield. L. G. Finnicum. 1,694,645; Dec. 11.
Glass-blowing machine. C. R. Nixon. 1,694,486; Dec. 11.
Glass containing barium, Manufacture of. F. Rothe and H. Brenck. 1,694,831; Dec. 11.
Glassworking machine. A. Samuelson. 1,694,867; Dec. 11.
Globe, Theftproof lamp. W. O. Bode and L. J. Haming. 1,694,963; Dec. 11.
Glycols, Manufacture of. G. O. Curme, jr. 1,695,250; Dec. 11.
Golf-ball-teeing device. G. J. Brockhagen. 1,695,006; Dec. 11.
Golf-club head. F. S. Smith. Des. 77,191; Dec. 11.
Golf clubs, Thumb rest and stroke-control device for. R. F. Stoeffler. 1,694,992; Dec. 11.
Golf game apparatus. F. Rentz. 1,694,691; Dec. 11.
Gong stands for clocks, Producing. E. L. Carlson. 1,695,087; Dec. 11.
Governor for ignition systems. S. I. Fekete. 1,694,644; Dec. 11.
Governor for seagoing ships, Marine. G. J. Teigland. 1,695,216; Dec. 11.
Governor, Locomotive. A. A. Hager. 1,694,652; Dec. 11.
Grading and distributing machine. L. A. Cogswell. 1,694,408; Dec. 11.
Grinder, Food. W. W. Dryden. 1,694,502; Dec. 11.
Guard, Flangeway. H. Oettinger. 1,694,557; Dec. 11.
Gun for airplanes, Synchronized machine. O. A. Ross. 1,694,488; Dec. 11.
Hair drier, Electric. H. G. Levy. Des. 77,162; Dec. 11.
Handle: *See*—
  Tool handle.
Handles to baskets, Mechanism for attaching wire. C. H. Allen. 1,694,901; Dec. 11.
Handling apparatus, Freight-. B. F. Fitch. 1,694,913; Dec. 11.
Handling freight. B. F. Fitch. 1,694,912; Dec. 11.
Hanger: *See*—
  Blackboard hanger.
  Eaves-trough hanger.
Hanger for electric wires. C. A. Cawood. 1,695,007; Dec. 11.
Harvesting artificial ice, Apparatus for. E. A. Hall. 1,694,742; Dec. 11.
Hat net. G. V. Heidt. Des. 77,154; Dec. 11.
Hat welt and forming same. W. Busold. 1,695,084; Dec. 11.
Header, Kafir-corn. W. A. Harrell. 1,694,852; Dec. 11.
Headlights, Automatic control for. E. von der Lippe-Lipski. 1,694,511; Dec. 11.
Headlights, Light diffuser for. B. K. Smith. 1,694,491; Dec. 11.
Heat-control device, Automatic. F. N. Nutt. 1,694,751; Dec. 11.
Heat-regulating device, Oven-. E. L. Claus and W. E. Claus. 1,694,682; Dec. 11.
Heat-treating furnace. A. Besta. 1,695,224; Dec. 11.
Heat-treating furnace. H. O. Breaker. 1,694,964; Dec. 11.
Heater: *See*—
  Automobile heater.
  Electric heater.
  Room heater.
  Water heater.
Heater. J. W. Slade. 1,694,695; Dec. 11.
Heating apparatus. W. T. Tabb. 1,694,725; Dec. 11.
Heating element, Electric resistance. H. S. Lee. 1,694,600; Dec. 11.
Heel-turning machine. G. Clausing. 1,694,465; Dec. 11.
Hinge. W. A. Matheson. 1,694,885; Dec. 11.
Hinge, Gate. L. A. Hawthorne. 1,694,914; Dec. 11.
Hinge, Pivot. A. C. Goddard. 1,695,235; Dec. 11.
Hoist, Hydraulic dumping-body. E. R. Barrett. 1,694,909; Dec. 11.
Holder. H. T. Wilson. 1,695,166; Dec. 11.
Holder, Aseptic-needle. H. S. Cook. 1,694,768; Dec. 11.
Holder, Bag. K. M. Riddle. 1,695,027; Dec. 11.
Holder, Billiard-cue-tip. C. Darmis. 1,694,375; Dec. 11.
Holder, Combination fountain pen and cigarette. U. Piagneri. 1,694,603; Dec. 11.
Holder for dentifrice-container tubes. G. T. Gale. 1,695,185; Dec. 11.
Holder for electric generators or motors, Brush. R. G. Lafite. 1,694,709; Dec. 11.
Holder, Lamp-shade-frame. K. C. Berger. 1,695,223; Dec. 11.
Holder, License-plate. E. L. Shelton. 1,694,832; Dec. 11.
Holder, Milk-bottle. R. C. Bacon. 1,694,729; Dec. 11.
Holder, Sanitary-napkin. L. Z. Nelson. 1,695,153; Dec. 11.
Holder, Toothbrush. G. E. C. Hill. 1,694,941; Dec. 11.
Holding and clamping device. A. A. Lainer. 1,694,474; Dec. 11.
Holding and locking spare wheels and the like on motor vehicles. M. Kruse. 1,695,016; Dec. 11.
Holding device, Sheet-. S. H. Plum, 2d. 1,694,720; Dec. 11.
Hone, Valve. E. A. Hall. 1,694,705; Dec. 11.
Honey extractor. G. Y. Harry. 1,694,541; Dec. 11.
Hose clamp. H. W. Goodall and J. W. Walsh. 1,694,538; Dec. 11.
Hose clamp. C. A. Parker. 1,694,664; Dec. 11.
Housing, Engine. F. N. Nelson. 1,694,790; Dec. 11.
Hubs, Making pressed-steel. H. H. Hicks. 1,694,779; Dec. 11.
Humidifier. E. A. Spaulding. 1,694,453; Dec. 11.
Hydraulic system and propelling vessels. G. R. Brown. 1,694,840; Dec. 11.
Hydrogen sulphide from coal or water gases, Removing. W. E. Leuchtenberg. Re. 17,162; Dec. 11.
Ice-cream cone. J. L. Balton. Des. 77,145; Dec. 11.
Ice pick. N. C. Smith. Des. 77,192; Dec. 11.
Impervious material. W. F. Bleecker. 1,694,730; Dec. 11.
Incubator. H. L. Watson. 1,694,674; Dec. 11.
Index or record. H. O. Ross. 1,694,517; Dec. 11.
Indicating apparatus. J. W. Anderson. 1,694,903; Dec. 11.
Indicating device. J. W. Anderson. 1,694,904–5; Dec. 11.
Indicating device for cooling systems. J. W. Anderson. 1,694,908; Dec. 11.
Indicating device, Stock-. L. E. Hutchings. 1,694,877; Dec. 11.
Indicating means. J. W. Anderson. 1,694,907; Dec. 11.
Indicator: *See*—
  Scale indicator.
  Temperature indicator.
Indicator. J. W. Anderson. 1,694,902; Dec. 11.
Indicator board. D. Brown. 1,694,639; Dec. 11.
Indicator for cooling systems. J. W. Anderson. 1,694,906; Dec. 11.
Indicator for internal-combustion engines, Heat. L. M. Spencer and J. Zubaty. 1,694,871; Dec. 11.
Indicator for motion-picture-projection apparatus. M. Hoffman. 1,694,942–3; Dec. 11.
Induction furnace, High-frequency. E. F. Northrup. 1,694,792; Dec. 11.
Inserting machine, Carpet-wire blade-. H. J. Galsman. 1,694,875; Dec. 11.
Insulating structure, Thermal. H. B. Lindsay. 1,694,947; Dec. 11.
Insulating support for electric resistance heating element. L. J. Fuller. 1,695,234; Dec. 11.
Insulator. C. S. Gordon. 1,694,415; Dec. 11.
Internal-combustion engine. H. J. Edwards. 1,694,642; Dec. 11.
Iron: *See*—
  Waffle iron.
Ironing machine. H. C. Curtiss. 1,694,970; Dec. 11.
Jack: *See*—
  Pumping jack.
Jack for double-hooked needles in knitting machines, Operating. A. M. Müller. 1,694,426; Dec. 11.
Javelle water, Manufacture of. H. D. Levine. 1,694,711; Dec. 11.
Jewelry, Beaded article of. F. Döppenschmitt. 1,694,703; Dec. 11.
Jig for use in making automobile bodies. J. Ledwinka. 1,694,475; Dec. 11.
Joint: *See*—
  Pipe joint.
  Rail joint.
  Universal joint.
Joist, Floor. H. M. Naugle and A. J. Townsend. 1,694,514; Dec. 11.
Kegs and the like, Metallic head for wooden. G. E. Mittinger. 1,695,118; Dec. 11.
Key for radio systems, Selective. E. E. Clement. 1,695,178; Dec. 11.
Keyhole guard. R. V. Savage. 1,694,798; Dec. 11.
Keyless lock. J. Recker. 1,694,795; Dec. 11.
Kiln. B. H. Greene. 1,694,650; Dec. 11.
Kneading and mixing machine, Dough. F. Aeschbach. 1,695,221; Dec. 11.
Kneading device. E. de Trey. 1,694,845; Dec. 11.
Knife. R. Wittlinger. 1,694,999; Dec. 11.
Knife, Pipe-bowl. F. L. Fraser. 1,695,145; Dec. 11.
Knitting device. S. Fujii. 1,694,849; Dec. 11.
Knitting machines, Dial-harmonizing device for circular-. P. Scharnag. 1,695,208; Dec. 11.
Lamp. R. Graf. 1,694,592–3; Dec. 11.
Lamp. H. W. Sisson. 1,694,564; Dec. 11.
Lamp. A. von Frankenberg. Des. 77,201–3; Dec. 11.
Lamp. A. von Frankenberg. Des. 77,206; Dec. 11.
Lamp, Mercury-vapor. W. Ulbrich. 1,694,836; Dec. 11.
Lamp of candelabra type, Standard. J. H. Baetz. 1,694,434; Dec. 11.
Lamp, Therapeutical. F. W. Robinson and K. V. Knapp. 1,695,061; Dec. 11.
Lamp, Train signal. F. D. Spear. 1,695,258; Dec. 11.
Lamp, Vehicle head. K. Newland and L. J. Miller. 1,694,485; Dec. 11.

Lamps or similar articles, Base for incandescent. I. H. Van Horn. 1,694,997; Dec. 11.
Landing equipment for airships. H. R. Liebert and W. Fischer. 1,694,861; Dec. 11.
Lantern for lighting posts. W. Underwood. Des. 77,196; Dec. 11.
Latch. G. E. Roedding. 1,694,866; Dec. 11.
Latch, Barn and garage door. G. R. Moss and R. D. Parks. 1,694,553; Dec. 11.
Lath board. G. A. Buttress. 1,694,640; Dec. 11.
Lavatory and dressing table, Combination. L. J. Graham. Des. 77,151; Dec. 11.
Lawn trimmer. R. St. Clair. 1,694,894; Dec. 11.
Leather-working machine. O. Böttger. 1,694,437; Dec. 11.
Level gauge, Electrolyte-. T. McCartie. 1,694,687; Dec. 11.
Lifting device, Automatic stack-. H. A. Fink. 1,695,233; Dec. 11.
Light for aircraft, Retractable. C. N. Monteith. 1,694,889; Dec. 11.
Light for automobiles, Tail. W. F. Little. 1,694,660; Dec. 11.
Lighting-fixture arm or the like. G. E. McFadden. Des. 77,169–70; Dec. 11.
Lighting-fixture band or similar article. G. E. McFadden. Des. 77,168; Dec. 11.
Lighting-fixture band or the like. G. E. McFadden. Des. 77,172; Dec. 11.
Lighting-fixture bracket or similar article. G. E. McFadden. Des. 77,171; Dec. 11.
Lighting-fixture canopy ring or the like. G. E. McFadden. Des. 77,167; Dec. 11.
Lighting-fixture wall bracket or the like. G. E. McFadden. Des. 77,173–6; Dec. 11.
Lighting fixtures, Husk for. L. R. Wellman. Des. 77,208–9; Dec. 11.
Lighting post. W. Underwood. Des. 77,194; Dec. 11.
Lighting posts, Hend for. W. Underwood. Des. 77,195; Dec. 11.
Lining for boots and shoes. A. E. Mathieu. 1,694,388; Dec. 11.
Liquid-fuel burner. C. H. Balmat. 1,694,366; Dec. 11.
Liquid-fuel burner. E. I. Staples. 1,695,215; Dec 11.
Liquid meter. D. H. McGogy. 1,694,747; Dec. 11.
Liquid-pressure brake. J. Lansinger. 1,695,194; Dec. 11.
Lock: *See*—
Automobile lock. Keyless lock.
Auxiliary lock. Permutation lock.
Combination lock. Safety lock.
Locking device, Automobile. H. G. Prigge. 1,694,863; Dec. 11.
Locking means for automobiles. W. Hemingway, jr. 1,694,382; Dec. 11.
Locomotive. J. Geiger. 1,694,648; Dec. 11.
Loom, Cross-weaving. H. A. Davis. 1,695,010; Dec. 11.
Loom fabric protector. S. Borgnis. 1,695,137; Dec. 11.
Loom stop mechanism. H. Demers. 1,694,411; Dec. 11.
Loud speaker. J. E. Sederholm. 1,695,126; Dec. 11.
Loud speaker, Diaphragm for a. G. R. Lum. Des. 77,165; Dec. 11.
Loud-speaking casing. C. L. Farraud. Des. 77,146; Dec. 11.
Lowervator. W. H. Nutting. 1,694,515; Dec. 11.
Lubricating system, Engine-. S. W. Rushmore. 1,694,518; Dec 11.
Lubricator. M. J. Fowler. 1,694,813; Dec. 11.
Luminous rays, Means to influence. A. Meissner. 1,694,661; Dec. 11.
Machine for beveling the edges of leather or similar material. G. J. Gorsuch. 1,694,379; Dec. 11.
Machine for closing the fold of a sheet of metal. T. J. Kelleher. 1,694,596; Dec. 11.
Machine for drying veneers. L. Rubinstein. 1,694,489; Dec. 11.
Machine for forming plastic tile. H. Brock. 1,694,579; Dec. 11.
Machine for manufacturing solid tires. J. I. Haase. 1,694,876; Dec. 11.
Machine for operating on pieces of sheet material. G. E. Molyneux. 1,694,787; Dec. 11.
Machine for picking poultry. A. O. Vestine. 1,695,128; Dec. 11.
Machine for rolling sheet metal. R. Trafelet. 1,694,495; Dec. 11.
Machine for shaping the ends of hollow ducts. J. Hein. 1,694,685; Dec. 11.
Magnetic circuit-control apparatus. S. Senberg and H. W. Anderson. 1,694,692; Dec. 11.
Magnetic dust cores, Production of. G. W. Elmen. 1,695,041; Dec. 11.
Marking device. E. Salzmann. 1,694,490; Dec. 11.
Marking machine. A. Van Veen. 1,694,955; Dec. 11.
Match book. R. S. Pullen. 1,694,864; Dec. 11.
Match book and making the same. J. O. Seifert. 1,694,799; Dec. 11.
Measurements, Electrical. J. W. Horton. 1,695,047; Dec. 11.
Measuring bridge, Impedance. W. J. Shackelton. 1,695,032; Dec. 11.
Measuring device, Depth-. G. W. Smith. 1,695,033; Dec. 11.
Mechanical movement. G. T. Basler. 1,694,961; Dec. 11.
Mechanical movement. R. D. Schnoor. 1,695,064; Dec. 11.
Metallic effects on fabrics containing organic derivatives of cellulose, Obtaining. R. Clavel. 1,694,466; Dec. 11.
Meter: *See*—
Dynamic and efficiency meter. Liquid meter.
Mill: *See*—
Rolling mill.
Mine, Thermal. J. H. Deppeler. 1,695,089; Dec. 11.
Mining apparatus. M. P. Holmes. 1,694,780; Dec. 11.
Mitered-joint bracket. P. D. Peck and W. S. Thomas. 1,694,667; Dec. 11.
Mold. C. A. Wood. 1,695,001; Dec. 11.
Molding apparatus, Centrifugal. W. H. Beatty. 1,694,763; Dec. 11.
Molding ceramic materials. D. W. Ross and J. M. Lamble. 1,694,563; Dec. 11.
Mop cleaner, Dust-. A. and D. W. Rado. 1,694,891; Dec. 11.
Motor: *See*—
Alternating-current motor.
Motor-control switch. C. D. Ainsworth. 1,694,613; Dec. 11.
Motor fire apparatus. W. D. Witter and J. A. Harte. 1,694,574; Dec. 11.
Motor mounting. C. E. Summers and R. K. Lee. 1,694,758; Dec. 11.
Mortising and boring machine. J. L. Thompson. 1,694,456; Dec. 11.
Mudguard for motor vehicles. H. Dédisse. 1,695,247; Dec. 11.
Mushroom bed. R. H. Morris, 3d. 1,694,482; Dec. 11.
Necklace or similar article. E. A. Schuelke. Des. 77,188; Dec. 11.
Necktie. S. Goldberg. 1,694,816; Dec. 11.
Nozzle and gauge, Combination air. A. S. Marchus. 1,695,018; Dec. 11.
Nozzle for printing presses, Suction. S. H. Plum. 2d, and H. Duff. 1,694,719; Dec. 11.
Nozzle, Hose. M. H. Hart. 1,695,097; Dec. 11.
Nozzle, Sluiceway. F. B. Allen. 1,694,635; Dec. 11.
Nut, Rim. J. Volckhausen. 1,694,459; Dec. 11.
Oil, Apparatus for reclaiming used lubricating. P. F. Miller. 1,694,478; Dec. 11.
Oil burner. C. A. Martindale. 1,695,152; Dec. 11.
Oil burner, Rotary. J. Scheminger, jr. 1,695,030; Dec. 11.
Oil derivatives and making same, Mineral-. G. Alleman. 1,694,462–3; Dec. 11.
Oil, Emulsifiable. D. R. Merrill. 1,695,197; Dec. 11.
Oil-gas apparatus. A. J. Bassett. 1,694,910; Dec. 11.
Oil-pump screen. L. V. Cram. 1,694,770; Dec. 11.
Oil saver. N. J. Jacobi. 1,694,471; Dec. 11.
Operating mechanism for elevating liquids, Automatically-. R. D. Lentz. 1,694,421; Dec. 11.
Ophthalmic mounting. F. A. Ubel. Des. 77,193; Dec. 11.
Outlet box. C. A. Johnson. 1,694,707; Dec. 11.
Oven, Vertical-chamber coke. C. Otto. 1,695,204; Dec. 11.
Packing case. C. W. Gerlach. 1,694,973; Dec. 11.
Pad and bed vessel. A. C. Sherran. 1,695,160; Dec. 11.
Pad for shoes, Insertable. A. F. Bancroft. 1,695,134; Dec. 11.
Paintbrush. C. Lesiuk. 1,694,860; Dec. 11.
Panel bezel, Instrument. F. N. Nutt. 1,694,752; Dec. 11.
Pans, Extension side for. O. M. Wilson. 1,694,958; Dec. 11.
Pants, Waterproof baby. R. Kosloff. 1,695,109; Dec. 11.
Paper cutter. C. O. Thorne. 1,694,896; Dec. 11.
Paper jogger. J. A. Carlton. 1,694,499; Dec. 11.
Paper or the like, Cover. W. S. Fowler. Des. 77,147; Dec. 11.
Partition, Sectional. W. J. Reinhold. 1,694,690; Dec. 11.
Pasteurizer, Milk. W. Sangster. 1,694,452; Dec. 11.
Pasteurizer, Milk. W. Sangster. 1,695,207; Dec. 11.
Pencil, Mechanical. C. R. Keeran. 1,694,945; Dec. 11.
Percentage feeder. B. Neal and G. H. Hebebrand. 1,694,484; Dec. 11.
Percolator, Enameled electric. V. Watts. 1,694,570; Dec. 11.
Permutation lock. H. A. Barrett. 1,695,080; Dec. 11.
Photographic-film package. B. A. Slocum. 1,694,401; Dec. 11.
Photography and the like, Color. A. Hamburger. 1,695,045; Dec. 11.
Piano. F. S. Muckey. 1,694,789; Dec. 11.
Picture frame. C. G. Reutos. 1,694,755; Dec. 11.
Picture transmission. H. E. Ives. 1,695,048; Dec. 11.
Pillow. F. Karr. 1,694,547; Dec. 11.
Pin: *See*—
Cotter pin.
Pipe joint. E. Kennedy. 1,694,822; Dec. 11.
Piston and cylinder construction. B. S. Floraday. 1,694,503; Dec. 11.
Piston, Fluid-tight. E. J. Laugaudin. 1,694,859; Dec. 11.
Piston for internal-combustion engines. H. R. Young. Re17,159; Dec. 11.
Planter. B. Zendron. 1,695,074; Dec. 11.
Planter and packer, Seed. H. A. Wilberg. 1,695,165; Dec. 11.
Plug for bathers, Ear. L. Santi. 1,694,952; Dec. 11.
Pocket, Automobile door-. G. C. Irons. 1,694,855; Dec. 11.
Pole center, Drapery-. G. M. Long. Des. 77,168–4; Dec. 11.
Polisher, Floor. H. V. Schaedel. 1,694,983; Dec. 11.





Polishing attachment for pin trimming and polishing machines, Bowling ball-. O. E. Zimmerling. 1,694,900; Dec. 11.
Pot furnace. A. J. Hanson. 1,694,416; Dec. 11.
Power attachment for corn pickers. K. Tjossem. 1,694,608; Dec. 11.
Power transmission, Apparatus for. L. B. Harris. 1,694,938; Dec. 11.
Preserver, Inflatable life. P. Markus. 1,694,714; Dec. 11
Press: *See*—
Filter press. Seaming press.
Pressing machine, Sole-. N. H. Knowlton. 1,694,445; Dec. 11.
Pressing machines, Operating mechanism for. A. B. Closson. 1,695,088; Dec. 11.
Pressure on liquid for use in vehicle braking, Maintaining. J. S. Reynolds. 1,694,951; Dec. 11.
Pressure-regulation means. C. L. Howse. 1,694,507; Dec. 11.
Priming mixture for small-arms ammunition. H. T. Peck. 1,694,800; Dec. 11.
Printing presses, Attachment for. R. W. Borrowdale. 1,694,638; Dec. 11.
Production and reception of continuous oscillations, System and method of. J. H. Hammond, jr. 1,694,655; Dec. 11.
Protective arrangement. N. Sensui. 1,694,986; Dec. 11.
Pulling device, Pipe-. S. K. Smoot. 1,694,953; Dec. 11.
Pulsing system. E. R. Lundins. 1,695,050; Dec. 11.
Pump. Z. P. Adams. 1,694,575; Dec. 11.
Pump. L. E. Johnson, S. M. Hansen, and J. T. McTarnahan. 1,694,783; Dec. 11.
Pump. J. Zwicky. 1,694,610; Dec. 11.
Pumping jack, Long-stroke. H. J. Smith. 1,694,402; Dec. 11.
Pusher mechanism for stokers, Fuel-. O. Craig. 1,695,229; Dec. 11.
Rack. O. G. Shilander. 1,695,211; Dec. 11.
Radiator. F. M. Young. 1,694,696; Dec. 11.
Radiator cap, Automobile. W. P. Dalrymple. 1,694,771; Dec. 11.
Radiator-cap ornament. W. E. Otwell. Des. 77,184; Dec. 11.
Radiator ornament or similar article, Automobile. V. Rizzi. Des. 77,185; Dec. 11.
Radiator return trap. A. P. Crosby. 1,694,641; Dec. 11.
Radio apparatus. P. H. Rooth. 1,694,396; Dec. 11.
Radio apparatus, Control mechanism for. R. J. Martin. 1,694,601; Dec. 11.
Radio broadcast distribution, Secrecy system of. E. E. Clement. 1,695,179–80; Dec. 11.
Radio broadcast selecting and distributing system. E. E. Clement. Re17,163; Dec. 11.
Radio broadcast selecting and distributing system. E. E. Clement. 1,695,173; Dec. 11.
Radiocabinet. J. Wolff. Des. 77,211; Dec. 11.
Radiocabinet. E. Worthington. Des. 77,210; Dec. 11.
Radio receiving instrument. E. E. Clement. 1,695,172; Dec. 11.
Radio receiving instrument for systems of broadcast distribution. E. E. Clement. 1,695,174; Dec. 11.
Radio receiving instrument for systems of broadcast distribution. E. E. Clement. 1,695,181; Dec. 11.
Radio receiving station. H. F. Löwenstein. 1,695,175; Dec. 11.
Radio service metering system. E. E. Clement. 1,695,177; Dec. 11.
Radio telephone and power-distributing system, Combined. J. B. Hoge and E. E. Clement. 1,695,171; Dec. 11.
Rail joint. S. Déri and M. Deak. 1,695,140; Dec. 11.
Railway track, Flexible. J. L. Clarkson. 1,694,528; Dec. 11.
Razor cleaner, Safety-. W. Berchielli. 1,695,135; Dec. 11.
Receptacle for powder or rouge. P. M. Guillaume. 1,694,818; Dec. 11.
Receptacle, Metal. S. Ringer. 1,694,487; Dec. 11.
Recording and controlling machine, Electromechanical. P. Trojani and C. D'Ascanio. 1,694,631; Dec. 11.
Recording and sound-reproducing machine. Sound-. A. Remy, J. Reneaux, J. Delort, and F. Debrebant. 1,695,025; Dec. 11.
Rectifying system. F. L. Walker, jr. 1,694,837; Dec. 11.
Reflector frame, Adjustable. L. S. Shively. 1,694,833; Dec. 11.
Refractory, Bonded. R. E. Lowe. 1,694,924; Dec. 11.
Refrigerating and heat-interchanging apparatus. C. L. Burdick. 1,694,370; Dec. 11.
Refrigerating apparatus. C. L. Burdick. 1,694,369; Dec. 11.
Refrigerating apparatus. F. E. Dennison. 1,694,532; Dec. 11.
Refrigerating apparatus. A. M. Thomson. 1,694,630; Dec. 11.
Refrigerating machine. H. Nielsen. 1,694,427; Dec. 11.
Refrigerator and waste-disposal apparatus, Combination sanitary. A. H. Allen. 1,695,133; Dec. 11.
Refrigerator, Bottle. C. N. Miller. 1,695,256; Dec. 11.
Regenerative furnace. W. Millward. 1,695,199; Dec. 11.
Regulating mechanism for full-fashioned-knitting machines, Universal loop-. C. F. Meyer. 1,694,888; Dec. 11.
Regulator: *See*—
Electric regulator. Speed regulator.
Fuel regulator. Temperature regulator.
Regulator for boilers, Automatic draft. L. W. Eggleston. 1,695,241–3; Dec. 11.
Regulator for boilers, Automatic draft. A. M. Mertzanoff. 1,695,240; Dec. 11.
Rendering apparatus. R. McTavish. 1,695,254; Dec. 11.
Reshaping annealing boxes, Apparatus for. C. V. Dodge. 1,695,142; Dec. 11.
Respirator. C. L. Burdick. 1,695,170; Dec. 11.
Restraining device for lens-grinding machines. C. A. Adams. 1,694,728; Dec. 11.
Retarding device for tube frames, Spool-. C. Lea. 1,694,881; Dec. 11.
Revolvers, Attachment for. A. M. Villalpando. 1,695,071; Dec. 11.
Rim contractor. L. Hagner, jr. 1,694,741; Dec. 11.
Rims for bull wheels, Making metallic. C. B. Pritchard. 1,694,680; Dec. 11.
Ring: *See*—
Finger ring.
Rings, Making finger. A. Suderov. 1,695,067; Dec. 11.
Roadbed and track construction, Railway. E. R. Edson. 1,694,811; Dec. 11.
Roasting sulphide minerals. J. B. Read and M. F. Coolbaugh. 1,694,794; Dec. 11.
Rocking-chair, Folding. L. P. Walker and L. O. Bergmann. 1,694,933; Dec. 11.
Rod: *See*—
Anchor rod.
Roll cleaner, Snapping-. T. H. Dillon, jr. 1,694,533; Dec. 11.
Roll for paper-making machines, Suction. E. E. Berry. 1,694,698; Dec. 11.
Roller: *See*—
Shade roller.
Roller for conveyers. E. W. Zimmerman. 1,695,075; Dec. 11.
Rolling mill. T. E. Holmes. 1,694,854; Dec. 11.
Roofing. O. A. Heppes. 1,694,418; Dec. 11.
Room heater. G. E. Barnhart. 1,695,079; Dec. 11.
Rotary drier. F. A. Jones. 1,694,708; Dec. 11.
Rotary engine. W. Elrick. 1,694,587; Dec. 11.
Rust-resisting can. N. Harris. 1,694,820; Dec. 11.
Safety device, Escalator. F. W. Blackburne. 1,695,083; Dec. 11.
Safety device for banks. G. W. Neely. 1,694,556; Dec. 11.
Safety device for elevators. J. A. Carlton. 1,694,731; Dec. 11.
Safety lock. R. J. Ellsworth. 1,695,184; Dec. 11.
Safety means for fluid-dispensing pumps. A. R. Mason and O. C. Failing. 1,694,827; Dec. 11.
Saw frame, Hack-. A. Egan. 1,695,231; Dec. 11.
Saw, Portable bench. F. M. Henkel. 1,695,188; Dec. 11.
Scale indicator. O. A. Johnson. 1,694,658; Dec. 11.
Scraper, Floor. E. L. Harrington. 1,694,417; Dec. 11.
Screen: *See*—
Oil-pump screen. Vibratory screen.
Ventilating screen.
Screen. A. Herz. 1,694,706; Dec. 11.
Screen for screening pulp and paper stock, Rotary. E. W. Lindquist. 1,694,622; Dec. 11.
Screen or plate for producing same, Rotary. W. C. Bruton. 1,694,498; Dec. 11.
Scrubbing machine. W. S. Finnell. 1,694,737; Dec. 11.
Scrubbing machine, Floor-. F. S. Floeter. 1,694,937; Dec. 11.
Seaming head for can-closing machines. M. M. Sedwick. 1,695,210; Dec. 11.
Seaming press, Side-. B. J. Lindgren. 1,694,862; Dec. 11.
Seat cushion. H. G. Wedler. 1,695,072; Dec. 11.
Section liner. E. R. Inman. 1,694,385; Dec. 11.
Separating apparatus. F. F. Pease. 1,694,606; Dec. 11.
Separating solids, Apparatus for. S. R. Puryear. 1,695,021; Dec. 11.
Separating solids from liquids, Apparatus for. R. F. Krall. 1,695,193; Dec. 11.
Separator: *See*—
Centrifugal separator.
Separator. C. A. Pilant. 1,695,156; Dec. 11.
Separator. A. R. Rogers. 1,694,724; Dec. 11.
Septic tank. J. P. Thurell. 1,695,217; Dec. 11.
Setting up skittle pins, Apparatus for. H. Schwarz. 1,695,209; Dec. 11.
Shade, Lamp. L. Albino. Des. 77,144; Dec. 11.
Shade, Lamp. H. Grobman. Des. 77,153; Dec. 11.
Shade roller. M. Curtis. 1,694,969; Dec. 11.
Shaft to speedometer, Connection of flexible. J. Zubaty. 1,694,761; Dec. 11.
Sharpener, Razor-blade. C. L. James. 1,694,544; Dec. 11.
Sharpening the points of pencils, Device for. R. M. Catá. 1,694,581; Dec. 11.
Sheet-metal cutter, Electrical. T. J. Kelleher. 1,694,597; Dec. 11.
Shelving. C. E. Sturdavant. 1,694,520; Dec. 11.
Shield for motor vehicles, Glare. S. A. Menczer. 1,694,552; Dec. 11.
Shield, Heat-deflection. G. E. Ryan. 1,694,604; Dec. 11.
Shock absorber. P. S. Morgan. 1,694,788; Dec. 11.
Shock absorber. W. J. Pavek. 1,694,949; Dec. 11.
Shock absorber. C. W. Sherman and J. M. Hall. 1,694,987; Dec. 11.
Shock-absorbing mechanism, Friction. S. B. Haseltine. 1,694,778; Dec. 11.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,694,793; Dec. 11.

Shoe, T. Saranitl. 1,695,063; Dec. 11.
Shoe, Baby's. B. Schubart. Des. 77,187; Dec. 11.
Shoe protecting and handling device. E. C. Hess. 1,694,853; Dec. 11.
Side frame. D. S. Barrows. 1 694,577; Dec. 11.
Sign, Outdoor advertising. G. S. Johnson. 1,695,106; Dec. 11.
Signal device, Auto. T. B. Blevins and J. C. Phillips. 1,694,616; Dec. 11.
Signal mechanism. E. N. Winslow. 1,694,573; Dec. 11.
Signal-transmitting switch, Electric. D. L. Harrison. 1,695,148; Dec. 11.
Signaling, Electrical. W. F. Friedman. 1,694,874; Dec. 11.
Signaling, High-frequency. R. W. Kendall. 1,694,473; Dec. 11.
Signaling, High-frequency. E. Peterson. 1,695,058; Dec. 11.
Signaling, Method of and system for electrical. J. H. Hammond. 1,694,654; Dec. 11.
Signaling system, Electric wave. L. M. Clement. 1,695,039; Dec. 11.
Silk, Apparatus for the manufacture of artificial. N. B. Grillet. 1,695,094; Dec. 11.
Silk, Apparatus for the manufacture of artificial. J. E. G. Lahousse. 1,695,111; Dec. 11.
Skate brake, Motor roller-. M. Rodelli. 1,694,671; Dec. 11.
Skate, Roller. B. E. Colwell. 1,694,374; Dec. 11.
Skate, Water. J. W. Keene. 1,695,191; Dec. 11.
Sleigh, Motor-driven. W. A. Olson. 1,694,829; Dec 11.
Slub catcher. D. Gravel. 1,695,236; Dec. 11.
Smoking stand. A. von Frankenberg. Des. 77,205; Dec. 11.
Snap switch, Electric. W. Wurdack, jr. 1,694,899; Dec. 11.
Snow and ice from windshields, Removing. L. M. Spencer. 1,694,757; Dec. 11.
Socket and switch plug. E. Sjolin. 1 694,400; Dec. 11.
Softening apparatus, Water-. E. T. Turner. 1,694,804; Dec. 11.
Sole and heel, Combined. E. F. Greene. Des. 77,152; Dec. 11.
Sole, Shoe. L. M. Oakley. Des. 77,183; Dec. 11.
Sole to shoe, Attachment of. J. W. Meloon. 1,694,446; Dec. 11.
Spacer and holder, Fence-wire. R. Huston. 1,695,149; Dec. 11.
Speed control for paper-making machines, Variable-. H. F. Dunbar. 1,694,704; Dec. 11.
Speed device, Variable-. E. S. Hight. 1,695,099; Dec. 11.
Speed regulator. J. Bethenod. 1,694,637; Dec. 11.
Splitting machine. J. Gouldbourn, B. P. Cooper, and H. E. Elliott. 1,694,441; Dec. 11.
Spoon or analogous article. H. E. Nock. Des. 77,182; Dec. 11.
Spray washer. F. W. Cutler. 1,694,734; Dec. 11.
Spraying machine. F. H. Yale. 1,694,806; Dec. 11.
Spreader, Asphalt. A. T. Newell. 1,695,201–3; Dec. 11.
Spring: *See*—
Air spring. Valve spring.
Spring construction for furniture. J. R. Thomas. 1,694,095; Dec. 11.
Spring suspension for lorries. M. Leytens. 1 694,422; Dec. 11.
Stand: *See*—
Tree stand.
Staple. G. A. Parker. 1,695,155; Dec. 11.
Starting arrangement for internal-combustion engines. P Viet. 1,695,218; Dec. 11.
Steering device. R. J. Winsor. 1,695,219; Dec. 11.
Sterilizing and cleansing apparatus, Bottle. T. F. Seitz 1,695,212; Dec. 11.
Sterilizing and incubating apparatus. V. Christensen. 1,695,008; Dec. 11.
Stool and bucket, Combined milking. J. M. Johansen. 1,694,545; Dec. 11.
Stopper, Gas-main. P. Goodman. 1,695,187; Dec. 11.
Storage battery. J. G. Jackson. 1,694,856; Dec. 11.
Storage battery, Catalytic agent in. D. W. Davis. 1,694,530; Dec. 11.
Stove, Electrically-heated tile. F. Graf. 1,694,539; Dec. 11.
Stove, Gas. W. L. Brooks. 1,694,839; Dec. 11.
Straightedge for wall-paper trimmers. C. E. Galvin. 1,694,850; Dec. 11.
Strainer. G. L. Hinman. 1,694,743; Dec. 11.
Stringed instruments, Attachment for. J. E. Larsen. 1,694,786; Dec. 11.
Stripping for windows and doors, Weather. A. F. Thompson. 1,695,161; Dec. 11.
Strop, Razor. M. W. McArdle. 1,694,389; Dec. 11.
Sulphur, Producing elemental. A. P. Thompson. 1,695,068; Dec. 11.
Support and bearing for gyrating shafts. A. R. Curtis. 1,695,230; Dec. 11.
Support attachment for flatirons. J. Pandolfo. 1,694,688; Dec. 11.
Support for automobile doors, Curtain. J. Ledwinka. 1,694,824; Dec. 11.
Support for internal-combustion engines with rubber cushions. C. R. Short. 1,694,756; Dec. 11.
Support for reamer cutters. F. L. Scott. 1,694,870; Dec. 11.
Support, Motor. A. F. Sawyer. 1,694,868; Dec. 11.
Support, Spring. F. M. Vogan. 1,695,129; Dec. 11.
Support, Spring hanger and bumper. J. Dykstra. 1,694,774; Dec. 11.
Support, Tubing. E. Green. 1,695,093; Dec. 11.
Supporter for wearing apparel. J. T. Eskridge. 1,694,735; Dec. 11.
Suspenders. A. Thies. 1,694,835; Dec. 11.
Swimming device. T. Rensing. 1,695,125; Dec. 11.
Switch: *See*—
Auxiliary switch. Thermoelectric switch.
Electric switch. Time switch.
Motor-control switch. Vehicle-operated switch.
Snap switch.
Switch. E. T. Bennington. 1,694,578; Dec. 11.
Switch. A. E. Walsh. 1,694,569; Dec. 11.
Switch-controlling device. G. H. Middlemiss. 1,694,448; Dec. 11.
Switch mounting. W. R. Walker. 1,695,260; Dec. 11.
Switchboard mounting of circuit-breaker units. W. M. Scott. 1,694,398; Dec. 11.
Switches, Control of electric. A. E. Anderson. 1,695,003; Dec. 11.
Switching mechanism, Car-operated. P. H. Crago. 1,694,409; Dec. 11.
Syringe. H. K. Brown. 1,694,766; Dec. 11.
Syringe, Hypodermic. H. S. Cook. 1,694,767; Dec. 11.
Table: *See*—
Dumping table.
Table attachment, Sewing. C. Bitzer. 1,695,082; Dec. 11.
Table for radio receiving sets or the like. F. Schwartz. Des. 77,189; Dec. 11.
Table for skin-drying plates, Turning. E. A. De Graff. 1,694,531; Dec. 11.
Tables, Extension-leaf construction for permanent-top. G. W. Krick. 1,695,110; Dec. 11.
Tag. O. C. Richardson. 1,694,723; Dec. 11.
Tag. C. Wendell. 1,694,998; Dec. 11.
Tank: *See*—
Septic tank.
Tank baffle, Oil-. A. R. Peters. 1,694,668; Dec. 11.
Tank-discharge-controlling mechanism. N. A. Carlson. 1,694,407; Dec. 11.
Teeter, Revolving. O. Lange. 1,694,785; Dec. 11.
Telegraph receiver, Wireless-. C. S. Franklin. 1,694,646; Dec. 11.
Telegraph system, Multiplex. A. A. Clokey. 1,695,040; Dec. 11.
Telegraph transmission of signals. L. Casper. 1,694,769; Dec. 11.
Telephone-exchange system. H. M. Bascom and E. Jacobsen. 1,694,406; Dec. 11.
Telephone-exchange system. W. T. Haines and R. W. Harper. 1,695,043; Dec. 11.
Telephone-exchange system. E. Jacobsen and A. B. Sperry. 1,695,049; Dec. 11.
Telephone system. G. Babcock. 1,694,934; Dec. 11.
Telephone system. P. B. Murphy. 1,695,057; Dec. 11.
Telephone system. J. E. Ostline. 1,694,623; Dec. 11.
Telephone system, Automatic. J. I. Bellamy. 1,694,615; Dec. 11.
Telephony, Multiple. E. Ruhmer. Re17,158; Dec. 11.
Temperature-controlling device for incubators, Automatic. P. S. Martin. 1,694,513; Dec. 11.
Tensiometer. W. Klemperer. 1,694,509; Dec. 11.
Tensioning machine, Ring-. R. B. Wasson. 1,695,037; Dec. 11.
Testing apparatus. C. L. Hippensteel. 1,695,046; Dec. 11.
Testing cans for leakage, Apparatus for. J. M. McClatchie. 1,694,828; Dec. 11.
Testing lamp for heavy-current installations. J. F. Schleper. 1,694,605; Dec. 11.
Testing system, Electrical. R. G. McCurdy and P. W. Blye. 1,694,425; Dec. 11.
Testing telephone circuits, Method and apparatus for. W. Wolff. 1,695,000; Dec. 11.
Therapeutic implement. F. Kabl. 1,695,107; Dec. 11.
Thermoelectric switch. A. U. Hook. 1,695,103; Dec. 11.
Thermostat. H. E. Rider. 1,694,928; Dec. 11.
Thermostatic control of carburetors. A. Taub. 1,694,759; Dec. 11.
Tile. E. Parker. 1,694,665; Dec. 11.
Tile clay products and apparatus therefor, Making. H. A. Shugart. 1,695,119; Dec. 11.
Tiles, Apparatus for the manufacture of roofing. F. A. Wilson. 1,695,132; Dec. 11.
Time switch. H. H. Kempf. 1,694,472; Dec. 11.
Tire carrier, Spare-. A. M. Flynt. 1,694,439; Dec. 11.
Toggle bolt. C. C. Tomkinson. 1,694,493–4; Dec. 11.
Tongs. B. J. Bloemsma. 1,694,525; Dec. 11.
Tongs, Animal-mouth. W. G. MacLean, jr. 1,694,713; Dec. 11.
Tool and handle connection. J. P. Cochran. 1,695,009; Dec. 11.
Tool, Auxiliary dialing. W. L. Peak. 1,694,429; Dec. 11.
Tool chuck. E. J. O'Flaherty. 1,694,558; Dec. 11.
Tool, Demountable-rim. W. W. Booth. 1,694,527; Dec. 11.
Tool for inserting stud bolts. H. Sauveur. 1,694,628; Dec. 11.
Tool for making gratings. A. E. Wells. 1,694,633; Dec. 11.
Tool for removing headlight rims. W. H. Guthrie. 1,694,443; Dec. 11.
Tool for rotating valve heads. R. E. Bissell. 1,694,699; Dec. 11.





Tool for the tie wires or bands of concrete building forms, barrels, boxes, bales, and the like, Cutting. O. W. Rankin. 1,695,022; Dec. 11.
Tool handle. J. L. Osgood. 1,694,559; Dec. 11.
Tool, Machine. F. P. Parish. 1,694,560; Dec. 11.
Tool, Tire-rim. X. Schneider. 1,694,893; Dec. 11.
Tool, Well-drilling. L. C. Black. 1,694,679; Dec. 11.
Tooth, Artificial. S. Myerson. 1,694,948; Dec. 11.
Tooth cleaner. G. Kalenoff. 1,695,238; Dec. 11.
Towing device, Vehicle. J. W. Hansen. 1,695,096; Dec. 11.
Toy. H. G. Hose. 1,694,917; Dec. 11.
Toy, Animated. H. E. Price. 1,695,205; Dec. 11.
Toy bank. I. S. Kronowit. Des. 77,158; Dec. 11.
Toy house. J. H. Frier, jr. Des. 77,148-9; Dec. 11.
Toy machine frame. A. C. Gilbert. Des. 77,150; Dec. 11.
Toy, Mechanical. G. N. Hall. 1,695,095; Dec. 11.
Track drill. R. Rostron. 1,695,062; Dec. 11.
Track liner. F. Hackmann. 1,694,651; Dec. 11.
Traffic-control system for radio broadcast distribution. B. E. Clement. 1,695,176; Dec. 11.
Traffic-controlling system. A. G. Williamson. 1,695,131; Dec. 11.
Train-control system. T. E. and J. E. Clark, and W. L. Coop. 1,694,373; Dec. 11.
Transformer, Electrical. C. F. Phillips. 1,695,122; Dec. 11.
Transmission of pictures and views. C. A. Sabbah. 1,694 982; Dec. 11.
Transmitting movement, Mechanism for. G. W. Sinclair. 1,694,834; Dec. 11.
Transporting logs, Method of and apparatus for. G. E. Spain. 1,694,931; Dec. 11.
Trap: *See*—
Radiator return trap
Treating air bags. S. S. Kurtz, jr. 1,694,879; Dec. 11.
Treating emulsified oil, Apparatus for. G. Egloff and H. P. Benner. 1,694,643; Dec. 11.
Treating hides and skins, Method of and apparatus for. M. M. Merritt. 1,694,447; Dec. 11.
Treatment of cellulose acetate. G. H. Ellis. 1,694,413; Dec. 11.
Treatment of spent clays. R. A. Dunham. 1,694,971; Dec. 11.
Tree: *See*—
Christmas tree.
Tree stand, Christmas-. R. Garlick. 1,694,815; Dec. 11.
Trimmer: *See*—
Lawn trimmer.
Trimming machine. B. Jorgensen. 1,694,444; Dec. 11.
Truck. B. J. Moore. 1,694,749; Dec. 11.
Truck for transporting poultry. L. A. Cohen. 1,694,732; Dec. 11.
Truck, Portable ash-can. M. J. Downey. 1,695,183; Dec. 11.
Truck, Railway-car. J. R. Cardwell. 1,695,085–6; Dec. 11.
Truck, Railway-car. W. C. Sleeman. 1,694,988; Dec. 11.
Trunk, Combination. E. Z. Hursh. 1,694,470; Dec. 11.
Trunking system for radio distribution. E. E. Clement. 1,695,182; Dec. 11.
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Discharge tube. Draft tube.
Tube cleaner, Multiple-. C. L. Burdick. 1,694,371; Dec. 11.
Tubing bend and making same. B. C. Root. 1,694,430; Dec. 11.
Tubing, Metal. E. R. Berry. 1,694,962; Dec. 11.
Turbine-governing system. W. Innes. Re17,161; Dec. 11.
Turbine, Hydraulic. H. B. Taylor. 1,694,454; Dec. 11.
Turbine or pump, Propeller-type. L. F. Moody. 1,694,481; Dec. 11.
Typewriting and computing machine, Combined. H. H. Vickers. 1,694,932; Dec. 11.
Typewriting machine. A. G. F. Kurowski. 1,694,923; Dec. 11.
Typewriting machine. J. A. B. Smith. 1,694,519; Dec. 11.
Universal coupling. F. W. Peters. 1,694,926; Dec. 11.
Universal joint. H. C. Lord. 1,695,116; Dec. 11.
Uppers and insoles, Apparatus for use in assembling. F. Ricks and J. Gouldbourn. 1,694,449; Dec. 11.
Uppers and insoles, Assembling. F. Ricks and J. Gouldbourn. 1,694,450; Dec. 11.
Urn, Coffee. H. Marcuson. 1,694,548; Dec. 11.
Vacuum device. W. D. Coolidge. 1,694,967; Dec. 11.
Valve. P. P. Dean. 1,694,809; Dec. 11.
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Valve, Adjustable-plug. C. W. Stevens. 1,694,403; Dec. 11.
Valve, Air-bag. C. Van Rennes. 1,694,872; Dec. 11.
Valve and fuel cut-off, Air. W. H. Pritchett. 1,695,206; Dec. 11.
Valve control, Electrically-operated organ-. C. F. Redman. 1,694,722; Dec. 11.
Valve for rock drills. E. B. Lear. 1,694,882; Dec. 11.
Valve, Lubricated adjustable-plug. C. W. Stevens. 1,694,404; Dec. 11.
Valve, Plate. G. G. Tuttle. 1,695,069; Dec. 11.
Valve, Pressure and temperature control. H. C. Tabler. 1,694,492; Dec. 11.
Valve, Pressure-relieving. T. A. Crompton. 1,695,248; Dec. 11.
Valve spring. A. S. Barney, sr. 1,694,435; Dec. 11.
Valve-stem adapter for inner-tube molds. A. A. Glidden, T. M. Knowland, and W. T. Rich, jr. 1,695,012–13; Dec. 11.
Vanadium compound. H. Hahl and W. Kropp. 1,695,147; Dec. 11.
Vanity case. H. L. Allen. 1,694,727; Dec. 11.
Vanity case. B. B. Deitel. 1,694,702; Dec. 11.
Vanity case adapted to separate compacts of contracting shades. L. L. Kole. 1,694,946; Dec. 11.
Vapor extractor. M. H. Kotzebue. 1,695,192; Dec. 11.
Vaporizer, Liquid. H. G. Donald. 1,694,936; Dec. 11.
Vehicle body, Closed road-motor-. C. T. Weymann. 1,694,572; Dec. 11.
Vehicle brake. E. B. Flanigan. 1,694,776; Dec. 11.
Vehicle-operated switch. A. O. Peterson. 1,695,121; Dec. 11.
Vehicle spring cover. T. Munroe. 1,694,483; Dec. 11.
Vending machine. C. Lea. 1,694,599; Dec. 11.
Veneering brick, Machine for. E. V. Poston. 1,695,123; Dec. 11.
Vent for bottles and other liquid containers, Automatic. O. Porter. 1,694,754; Dec. 11.
Ventilating and deflecting of air through railway cars. A. Sturrock. 1,694,993; Dec. 11.
Ventilating screen. H. H. Everhard. 1,695,091; Dec. 11.
Ventilation of dynamo-electric machines. E. G. Sohlberg. 1,694,990; Dec. 11.
Ventilator: *See*—
Cowl ventilator. Wall louver ventilator.
Vibrating objects, Apparatus for. J. T. Stoney and K. Purwin. 1,695,127; Dec. 11.
Vibratory screen. L. E. Soldan and G. W. Behnke. 1,694,563; Dec. 11.
Waffle iron, Electric. C. P. Randolph. 1,694,981; Dec. 11.
Wall louver ventilator. R. J. Miller. Re17,164; Dec. 11.
Warpage of castings in cooling, Preventing. A. B. Norton. 1,695,239; Dec. 11.
Washer: *See*—
Spray washer.
Washing machine. S. E. Schroeder. 1,695,065; Dec. 11.
Washing machine. F. B. Schuyler. 1,694,606; Dec. 11.
Water heater, Electric. E. R. Bolinger. 1,695,227; Dec. 11.
Water-level indicator, Battery. L. R. Willits. 1,694,609; Dec. 11.
Waterproof sheet structure. J. F. White. 1,694,523; Dec. 11.
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Waving or curling the hair, Apparatus for. E. F. Suter. 1,694,607; Dec. 11.
Welding machine. H. M. Naugle and A. J. Townsend. 1,694,555; Dec. 11.
Welding machine, Electric. C. M. MacChesney and R. H. Norton. 1,694,512; Dec. 11.
Welding plates, Process and apparatus for. C. Schaer. 1,694,629; Dec. 11.
Windmill. F. R. Owens. 1,695,154; Dec. 11.
Window, S. A. McClellan. 1,694,886; Dec. 11.
Windshield cleaner. J. G. Truesdell and W. J. O'Connell. 1,695,163; Dec. 11.
Wiper, Windshield. R. C. McColley. 1,694,390; Dec. 11.
Wireworking machine. G. F. Matteson. 1,695,255; Dec. 11.
Wrapper for receptacles and preparing the same. H. P. Shopneck. 1,694,399; Dec. 11.
Wrapping for packages, Advertising. N. E. Covel. 1,694,701; Dec. 11.
Zinc from zinc-bearing solutions, Recovery of. N. E. Lenander. 1,694,710; Dec. 11.

# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 11, 1928.

NOTE.—First number=class, second number=subclass, third number=patent number.

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201— 63: 1,695,234
76: 1,694,848
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204— 8: 1,694,962
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208— 175: 1,694,374
209— 18: 1,695,021
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275: 1,694,565
397: 1,694,498
210— 6: 1,695,217
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65: 1,694,541
147: 1,694,467
149: 1,695,156
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1,694,770
210— 195: 1,694,956
211— 51: 1,695,027
93: 1,695,211
121: 1,695,151
134: 1,694,520
137: 1,694,551
212— 142: 1,694,931
213— 32: 1,694,778
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60: 1,694,960
126: 1,695,026
127: 1,695,015
128: 1,695,024
214— 6: 1,694,586
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215— 1: 1,694,754
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38: 1,694,399
41: 1,694,851
51: 1,695,190
217— 36: 1,694,973
52: 1,694,508
76: 1,695,118
219— 4: 1,694,512
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19: 1,694,600
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38: 1,695,008
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27: 1,694,584
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82: 1,695,222
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221— 13: 1,694,925
47.1: 1,694,624
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79: 1,694,812
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224— 29: 1,694,439
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226— 29: 1,695,053
229— 7: 1,695,104
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230— 50: 1,694,583
158: 1,694,783
205: 1,694,630
259: 1,695,002
233— 2: 1,694,972
21: 1,694,468
235— 60: 1,694,803
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78: 1,694,877
236— 4: 1,694,513
20: 1,695,243
32: 1,695,240
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85: 1,694,507
238— 9: 1,694,557
10: 1,694,528
26: 1,694,811
232: 1,695,140
315: 1,694,878
331: 1,694,898
240— 7.1: 1,694,889
8.3: 1,694,660
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44: 1,694,765
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48.6: 1,694,645
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242— 71: 1,694,401
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244— 2: 1,694,873
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251— 46: 1,694,595
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97: 1,694,403
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119: 1,695,069
121: 1,694,625
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73: 1,694,870
257— 79: 1,694,452
121: 1,694,626
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241: 1,694,412
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259— 1: 1,695,127
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82: 1,695,221
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260— 11: 1,694,462
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156.5: 1,695,250
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262— 28: 1,694,780
263— 6: 1,695,224
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265— 1: 1,694,509
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266— 1.5: 1,694,536
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15: 1,694,792
23: 1,694,567
267— 8: 1,694,949
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37: 1,694,483
73: 1,694,944
268— 2: 1,694,556
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271— 8: 1,694,745
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62: 1,694,717
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273— 33: 1,695,006
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69: 1,695,120
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88: 1,694,721
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280—33.14: 1,695,096
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284— 6: 1,694,744
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287— 100: 1,694,681
290— 40: R. 17,161
292— 228: 1,695,108
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294— 11: 1,694,525
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96: 1,694,953
296— 28: 1,694,546
1,694,572
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44: 1,694,825
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84: 1,694,552
139: 1,694,824
298— 10: 1,695,034
22: 1,694,909
299— 35: 1,694,806
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300— 21: 1,695,159
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303— 6.1: 1,694,543
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304— 32: 1,695,213
40: 1,694,887
306— 7: 1,695,069
308— 11: 1,694,868
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207: 1,695,146
312— 1: 1,694,487
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42: 1,694,897
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84: 1,694,509


Dec. 18, 1928

# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Shoe Manufacturing Company, Chicago, Ill. Children's shoes. 250,903; Dec. 18; Serial No. 269,440; published Sept. 25, 1928. Class 39.

Advance Cloak Company, Milwaukee, Wis. Ladies' fur coats, cloth coats, dresses, and hats. 250,996; Dec. 18. Class 39.

Aguirre, Charles, New York, N. Y. Deodorant powder. 250,985; Dec. 18; Serial No. 268,259; published Sept. 11, 1928. Class 6.

Aix-Olein Co., Inc., Brooklyn, N. Y. Soaps. 250,982; Dec. 18; Serial No. 268,477; published Oct. 9, 1928. Class 4.

Albany Perforated Wrapping Paper Company, Albany, N. Y. Toilet paper. 250,814–16; Dec. 18; Serial Nos. 271,103–5; published Oct. 2, 1928. Class 37.

Albers Bros. Milling Co., San Francisco, Calif. Cake and pastry flour. 250,884; Dec. 18; Serial No. 271,015; published Sept. 25, 1928. Class 46.

Alfeld, Clarence E., doing business as Lakeside Products Company, Chicago, Ill. Malt syrup. 250,938; Dec. 18; Serial No. 270,566; published Sept. 25, 1928. Class 46.

Allen, Edgar, & Co. Limited, Sheffield, England. Steel. 250,882; Dec. 18; Serial No. 271,023; published Sept. 25, 1928. Class 14.

Auerbach, Maurice H., also doing business as Auerbach Chemical Company, San Francisco, Calif. Sterilizers, deodorizers, etc. 250,741; Dec. 18; Serial No. 271,162; published Oct. 9, 1928. Class 6.

American Cyanamid Company, New York, N. Y. Case-hardening materials. 250,739–40; Dec. 18; Serial Nos. 271,159–60; published Oct. 9, 1928. Class 6.

American Eagle Publishing Co., Inc., The, Baltimore, Md., and New York, N. Y. Periodical. 250,984; Dec. 18; Serial No. 268,263; published Oct. 9, 1928. Class 38.

American Lady Corset Co., Detroit, Mich. Combinations of brassières and girdles, brassières and corsets, etc. 250,990; Dec. 18; Serial No. 268,017; published Oct. 2, 1928. Class 39.

American Machine & Foundry Company, Jersey City, N. J., and New York and Brooklyn, N. Y. Coating and soldering metal. 250,782; Dec. 18; Serial No. 256,654; published Dec. 20, 1927. Class 14.

American Products Company, The, Cincinnati, Ohio. Soaps, shaving cream and soap, etc. 250,755; Dec. 18; Serial No. 252,635; published Sept. 25, 1928. Class 4.

Apt Novelty Co., Inc., New York, N. Y. Cellulose-acetate, metal, fabric, and parchment lamp shades. 250,954; Dec. 18; Serial No. 270,007; published Oct. 9, 1928. Class 34.

Associated Apparel Industries, Inc. (See Gossard, H. W., Co., The.)

B-H Electrical Laboratories. (See Kovar, Joseph B.)

Badagliacca Inc., Paterson, N. J. Shoes. 250,973; Dec. 18; Serial No. 270,662; published Sept. 18, 1928. Class 39.

Baker, Newton E., doing business as Hollywood Color Company, Los Angeles, Calif. Shoe and leather dressing. 250,900; Dec. 18; Serial No. 269,571; published Oct. 9, 1928. Class 4.

Ballou, G. H., Company, to San Diego Coffee Company, San Diego, Calif., successor. Spices and flavoring extracts. 71,162; renewed Nov. 3, 1928.

Barkmahn Co. Inc., The. (See Mahn, Godfrey S., assignor.)

Beardsley & Wolcott Mfg. Co., The, Hartford, Conn. Electric curling irons, electric cigar lighters, etc. 250,802; Dec. 18; Serial No. 267,291; published Oct. 9, 1928. Class 21.

Becker, Ferdinand W., assignor to Peter Eidenberg, doing business as Kosmos Mineral Water Company, Narberth and Philadelphia, Pa. Carbonated water. 53,587; renewed June 5, 1926.

Behrendt, Fritz, Grafrath, near Munich, Germany. Artists' colors and artists' paints. 250,789; Dec. 18; Serial No. 260,207; published May 15, 1928. Class 16.

Bissell Carpet Sweeper Co., assignor to Bissell Carpet Sweeper Co., Grand Rapids, Mich. Carpet sweepers. 72,762; renewed Feb. 16, 1929.

Bissell Carpet Sweeper Co., assignor to Bissell Carpet Sweeper Company, Grand Rapids, Mich. Carpet sweepers. 73,421; renewed Apr. 20, 1929.

Blair Corset Co. Inc., Chicago, Ill. Corsets, brassières, underwear, etc. 251,009; Dec. 18. Class 39.

Blake Manufacturing Co., Springfield, Mass. Flash lights. 250,797; Dec. 18; Serial No. 262,645; published Oct. 9, 1928. Class 21.

Blanchard, E., doing business as Golden State Laboratories, Larkspur, Calif. Metal polish. 250,941; Dec. 18; Serial No. 270,459; published Oct. 2, 1928. Class 4.

Blumer, Robert, Falfurrias, Tex. Chickens, turkeys, ducks, eggs, etc. 250,778; Dec. 18; Serial No. 268,906; published Oct. 9, 1928. Class 46.

Bohemian Distributing Co. Inc., Los Angeles, Calif. Malt syrup. 250,851; Dec. 18; Serial No. 269,508; published Oct. 9, 1928. Class 46.

Bolling, John E., doing business as Esten Bolling, East Orange, N. J. Printed books, booklets, sheets, etc. 250,931; Dec. 18; Serial No. 269,179; published Oct. 2, 1928. Class 38.

Boss Manufacturing Company, The, Kewanee, Ill., and Brooklyn, N. Y. Gloves and mittens. 250,922; Dec. 18; Serial No. 266,352; published Sept. 25, 1928. Class 39.

Boyes, Estella M., New York, N. Y. Bags or wrappers for shoes and the like. 251,001; Dec. 18.

Breslin-Griffitt Carpet Company, New York, N. Y. Carpets and rugs. 250,874–5; Dec. 18; Serial Nos. 270,824–5; published Oct. 9, 1928. Class 42.

Breslin-Griffitt Carpet Company, New York, N. Y. Carpets and rugs. 250,876; Dec. 18; Serial No. 270,822; published Oct. 9, 1928. Class 42.

Breslin-Griffitt Carpet Company, New York, N. Y. Carpets and rugs. 250,893; Dec. 18; Serial No. 270,827; published Oct. 9 1928. Class 42.

Brightfield, Lloyd O., doing business as "The Soda-Dent Company", assignor to The Soda-Dent Company, Baltimore, Md. Tooth paste or dentifrice. 250,783; Dec. 18; Serial No. 256,807; published Oct. 9, 1928. Class 6.

Bronx Home Products Company, The. (See Hellwell, Julius.)

Bruder, Carl J., doing business as Bruder's Goulash Kitchen, Portland, Oreg. Canned goulash. 250,877; Dec. 18; Serial No. 270,790; published Oct. 9, 1928. Class 46.

Brüder Distributing Co. (See Cohn, Samuel A., & Bro.)

Bush, W. J., and Company, Limited, London, England. Substances used as food or as ingredients of food. 250,914; Dec. 18; Serial No. 267,350; published Sept. 25, 1928. Class 46.

Cairns, Patrick, doing business as Wyoming Malt and Hops Supply Co., Philadelphia, Pa. Malt extract. 250,987; Dec. 18; Serial No. 268,207; published Sept. 25, 1928. Class 46.

California Commercial Co., San Francisco, Calif. Canned fruits, fruit cocktails, etc. 251,021; Dec. 18. Class 46.

Calumet Foundry & Machine Company, East Chicago, Ind. Metal castings. 250,899; Dec. 18; Serial No. 269,633; published Oct. 9, 1928. Class 14.

Capital Paper Company, Indianapolis, Ind. Toilet paper. 250,801; Dec. 18; Serial No 266,711; published Sept. 25, 1928. Class 37.

Carr, Carl C., Lakewood, Cleveland, Ohio. Fabric and leather and fabric gloves. 250,930; Dec. 18; Serial No. 269,182; published Sept. 25, 1928. Class 39.

Carr Milling Company, The, Hamilton, Ohio. Wheat flour. 250,781; Dec. 18; Serial No. 255,743; published Jan. 10, 1928. Class 46.

Chain Belt Company, Milwaukee, Wis. Concrete mixers. 250,808; Dec. 18; Serial No. 271,739; published Oct. 9, 1928. Class 23.

Champion Radio Works, Inc., Danvers, Mass. Electron tubes. 250,850; Dec. 18; Serial No. 269,462; published Oct. 9, 1928. Class 21.

Childs, H., & Co. Inc., Pittsburgh, Pa. Shoes. 251,005; Dec. 18. Class 39.

Chryson's Inc., Los Angeles, Calif. Greeting cards, wedding invitations, etc. 250,771; Dec. 18; Serial No. 271,682; published Oct. 9, 1928. Class 38.

Chryson's, Inc., Los Angeles, Calif. Stationery. 250,846; Dec. 18; Serial No. 269,087; published Sept. 25, 1928. Class 37.

Citogel Gesellschaft für Chemische und Technische Erzeugnisse m. b. H., Hamburg, Germany. Refrigerators, beverage coolers, and ice-cream freezers. 250,869; Dec. 18; Serial No. 262,152; published Oct. 2, 1928. Class 31.

Clapp, Edwin, & Son, Inc., East Weymouth, Mass. Boots and shoes. 250,732; Dec. 18; Serial No. 271,024; published Oct. 2, 1928. Class 39.

Coast Fishing Company, Wilmington, Calif. Canned fish. 250,772; Dec. 18; Serial No. 271,683; published Oct. 9, 1928. Class 46.

Cohn, Samuel A., & Bro., doing business as Brüder Distributing Co., Hazleton, Pa. Malt syrup. 250,829; Dec. 18; Serial No. 271,021; published Oct. 9, 1928. Class 46.

Cohn & Rosenberger, Inc., New York, N. Y. Pearls, necklaces, bracelets, etc. 250,946; Dec. 18; Serial No. 270,370; published Sept. 25, 1928. Class 28.

Colca-Cookie Corporation, Brooklyn, N. Y. Cookies. 250,735; Dec. 18; Serial No. 271,066; published Sept. 25, 1928. Class 46.

Collins Medicine Company, Collins, Miss. Herb-root composition. 250,983; Dec. 18; Serial No. 268,426; published Oct. 9, 1928. Class 6.

Colonial Bead Co. Inc., New York, N. Y. Ornamental pins, brooches, etc. 250,896; Dec. 18; Serial No. 269,719; published Sept. 25, 1928. Class 28.

Conn, Robert, Dunedin, New Zealand. Medicine. 250,972; Dec. 18; Serial No. 270,668; published Oct, 9, 1928. Class 6.

Conover, C. E., Company, The, New York, N. Y. Dress shields. 250,927; Dec. 18; Serial No. 264,810; published Oct. 2, 1928. Class 40.

Continental Fruit Packing Co., Limited, The, London, England. Canned fruits and canned vegetables. 250,883; Dec. 18; Serial No. 271,022; published Oct. 9, 1928. Class 46.

Cook, Arch L., doing business as Great Northern Glove Company, Bluffton, Ind. Gloves. 250,975; Dec. 18; Serial No. 268,681; published Sept. 25, 1928. Class 39.
Cook, Tobias G., Minneapolis, Minn. Ladies' and women's hats. 250,790; Dec. 18; Serial No. 260,426; published Sept. 25, 1928. Class 39.
Coty, Inc., Wilmington, Del., and New York, N. Y. Liquid preparation for the improvement and beautification of the skin. 250,742; Dec. 18; Serial No. 271,168; published Oct. 9, 1928. Class 6.
Crime Club, Inc., The, Garden City, N. Y. Publications. 250,857; Dec. 18; Serial No. 263,930; published Sept. 25, 1928. Class 38.
Crown Willamette Paper Company, San Francisco, Calif. Papers. 250,760; Dec. 18; Serial No. 235,253; published Aug. 28, 1928. Class 37.
Cubbison, Harry G., doing business as Cubbison Cracker Co., Los Angeles, Calif. Toast. 250,962; Dec. 18; Serial No. 269,947; published Oct. 2, 1928. Class 46.
Cummins, Samuel, New York, N. Y. Soap. 250,727; Dec. 18; Serial No. 243,644; published Oct. 9, 1928. Class 4.
Day, Fred J., doing business as Precooling Car Service Co., Los Angeles, Calif. Fresh vegetables, fresh melons, etc. 250,765; Dec. 18; Serial No. 254,127; published Oct. 2, 1928. Class 46.
De-Fi Manufacturing Company, New York, N. Y. Carbon paper. 73,511; renewed Apr. 27, 1929.
Deming & Gould Co., Chicago, Ill., and South Bellingham, Wash. Canned salmon. 250,997; Dec. 18. Class 46.
Devoe & Raynolds Co., Inc., New York, N. Y. Lacquers, enamels, varnishes, and mixed paints. 250,886; Dec. 18; Serial No. 270,958; published Oct. 9, 1928. Class 16.
Devoe & Raynolds Co., Inc., New York, N. Y. Lacquers, paint enamels, varnishes, and mixed paints. 250,887; Dec. 18; Serial No. 270,957; published Oct. 9, 1928. Class 16.
Ditto, Incorporated, Chicago, Ill. Paper. 250,843; Dec. 18; Serial No. 254,269; published Sept. 25, 1928. Class 37.
D'Ollier, Henry, jr., Bridgeport, Conn. Electric connectors, sockets, etc. 250,856; Dec. 18; Serial No. 264,026; published Sept. 25, 1928. Class 21.
Dorf, Morris, doing business as Dorf & Company, Baltimore, Md. Caps. 250,986; Dec. 18; Serial No. 268,216; published Sept. 18, 1928. Class 39.
Dubilier Condenser Corporation, New York, N. Y. Electrical condensers of constant capacity and devices. 250,728-9; Dec. 18; Serial Nos. 240,070-1; published July 3, 1928. Class 21.
Dubin, Joseph, doing business as Malt Age Publishing Company, Chicago, Ill. Periodical. 250,740; Dec. 18; Serial No. 271,298; published Sept. 25, 1928. Class 38.
Duff, P., & Sons, Inc., Pittsburgh, Pa. Evaporated milk. 250,947; Dec. 18; Serial No. 270,372; published Sept. 25, 1928. Class 46.
Durand Shoe Co., Boston, Mass. Shoes. 250,898; Dec. 18; Serial No. 269,646; published Sept. 25, 1928. Class 39.
Eastern Products Company, New York, N. Y. Gelatin, dessert powder, etc. 250,798; Dec. 18; Serial No. 265,782; published Oct. 9, 1928. Class 46.
Easy Oil Company. (See Kane, Joseph W.)
Edison Electric Appliance Company, Chicago, Ill. Electric domestic appliances. 250,756; Dec. 18; Serial No. 251,658; published Sept. 25, 1928. Class 21.
Eldenberg, Peter. (See Becker, Ferdinand W., assignor.)
Elco Shoe Manufacturers, Inc., Brooklyn, N. Y. Shoes. 250,780; Dec. 18; Serial No. 268,975; published Sept. 18, 1928. Class 39.
Electare Company, The, Chicago, Ill. Electrical combined heater and dryer, vacuum cleaners, etc. 250,848; Dec. 18; Serial No. 269,281; published Oct. 9, 1928. Class 21.
Elliott Varnish Co., Chicago, Ill. Varnishes, varnish stains, and paint enamels. 250,879; Dec. 18; Serial No. 270,741; published Oct. 9, 1928. Class 16.
Elliott Varnish Co., Chicago, Ill. Varnish and paint enamels. 250,880; Dec. 18; Serial No. 270,740; published Oct. 9, 1928. Class 16.
Emerson Shoe Manufacturing Company, Rockland, Mass. Shoes. 250,950; Dec. 18; Serial No. 270,241; published Sept. 18, 1928. Class 39.
Em-It-Products Company, Snyder, Tex. Salad dressings. 250,971; Dec. 18; Serial No. 270,696; published Sept. 25, 1928. Class 46.
Entress, Franz, Nurtingen, Germany. Hosiery, gloves, jackets, etc. 250,863; Dec. 18; Serial No. 263,209; published Sept. 18, 1928. Class 39.
Esleeck Manufacturing Co., Turners Falls, Mass. Writing-paper. 73,561; renewed Apr. 27, 1929.
Etchison Hat Co., Inc., Richmond, Va. Hats and caps. 250,912; Dec. 18; Serial No. 267,543; published Sept. 25, 1928. Class 39.
Evrard & Fichet, Paris, France. Corsets, corselets, girdles, etc. 250,791; Dec. 18; Serial No. 260,560; published Sept. 25, 1928. Class 39.
Ezon Manufacturing Co., Racine, Wis. Brake dressing. 250,907; Dec. 18; Serial No. 269,282; published Sept. 25, 1928. Class 4.
Fairchild Company, Chicago, Ill. Magazine articles. 250,766; Dec. 18; Serial No. 254,075; published Sept. 25, 1928. Class 38.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 250,767; Dec. 18; Serial No. 247,608; published Feb. 28, 1928. Class 46.
Fine and Levy, Inc., New York, N. Y. Children's hats. 250,943; Dec. 18; Serial No. 270,416; published Sept. 18, 1928. Class 39.
Fischer, Carl, Inc., New York, N. Y. Wood-wind, brass, and reed musical instruments and parts thereof. 250,862; Dec. 18; Serial No. 263,312; published Sept. 25, 1928. Class 36.
Fort Pitt Typewriter Company, Pittsburgh, Pa. Stencil paper. 250,809; Dec. 18; Serial No. 271,380; published Oct. 9, 1928. Class 37.
Frankel's, Isaac, Sons, Wilkes-Barre, Pa. Coffee, spices, canned fruits, etc. 250,753; Dec. 18; Serial No. 253,749; published Sept. 25, 1928. Class 46.
Franklin, Simon, & Co. Inc., New York, N. Y. Dresses, corsets, sports suits, etc. 251,003; Dec. 18. Class 39.
Frederick Malt & Products Co. (See Lehnert, W. C.)
French, Shriner & Urner, Boston, Mass. Boots and shoes. 250,872; Dec. 18; Serial No. 261,561; published Sept. 18, 1928. Class 39.
Fulmer & Gibbons, Philadelphia, Pa. Bracelets, brooches, bar pins, etc. 250,844; Dec. 18; Serial No. 260,053; published Oct. 9, 1928. Class 28.
Gambrill Grain Products Co., The, Baltimore, Md. Malt-compound powder. 250,902; Dec. 18; Serial No. 269,452; published Sept. 25, 1928. Class 46.
Garoni Mfg. Co., Chicago, Ill. Garlic juice, garlic flavor, and onion flavor. 250,929; Dec. 18; Serial No. 264,576; published Oct. 2, 1928. Class 46.
Garside, A., & Sons, Long Island City, N. Y. Leather boots and shoes for women. 251,014; Dec. 18. Class 39.
General Footwear Corporation, New York, N. Y. Boots and shoes. 250,897; Dec. 18; Serial No. 269,653; published Oct. 2, 1928. Class 39.
General Rub-Ros Company, Hialeah, Fla. Paints. 250,970; Dec. 18; Serial No. 270,701; published Oct. 9, 1928. Class 16.
Gemex Company, Newark, N. J. Watch bracelets. 250,818; Dec. 18; Serial No. 271,043; published Oct. 9, 1928. Class 28.
Gemex Company, Newark, N. J. Watch bracelets. 250,819-25; Dec. 18; Serial Nos. 271,033-9; published Oct. 9, 1928. Class 28.
Gemex Company, Newark, N. J. Watch brecelets. 250,826-8; Dec. 18; Serial Nos. 271,029-31; published Oct. 9, 1928. Class 28.
Gerber Bros., Brooklyn, N. Y. Canned fruit, vegetables, spices, pickles, etc. 250,804; Dec. 18; Serial No. 268,090; published Oct. 9, 1928. Class 46.
Germanow-Simon Machine Co., Rochester, N. Y. Watch crystals. 250,939; Dec. 18; Serial No. 270,545; published Oct. 9, 1928. Class 33.
Gertner, Morris H., doing business as Gertner Malt Company, Columbus, Ohio. Malt syrup. 250,891; Dec. 18; Serial No. 270,883; published Sept. 25, 1928. Class 46.
Gilmore Oil Company, Los Angeles, Calif. Gasoline, kerosene, lubricating oils, etc. 250,933; Dec. 18; Serial No. 269,113; published Sept. 25, 1928. Class 15.
Gimbel Brothers, Inc., New York, N. Y. Dresses. 251,019; Dec. 18. Class 39.
Glaser, Crandell Co., Chicago, Ill. Picklelike product. 250,942; Dec. 18; Serial No. 270,418; published Sept. 25, 1928. Class 46.
Golden State Laboratories. (See Blanchard, E.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Soles and heels. 251,017; Dec. 18. Class 39.
Gossard, H. W., Co., The, now by change of name Associated Apparel Industries, Inc., Chicago, Ill. Corsets, corset combinations, underwear, etc. 251,006-8; Dec. 18. Class 39.
Grandma Cookie Co., Oakland, Calif. Chocolate, raisin, nut, and marble cake, and cookies. 250,762; Dec. 18; Serial No. 238,215; published Dec. 14, 1926. Class 46.
Grayburg Oil Company, San Antonio, Tex. Illuminating oils, fuel oils, etc. 250,817; Dec. 18; Serial No. 271,044; published Oct. 9, 1928. Class 15.
Great Northern Glove Company. (See Cook, Arch L.)
Great Stuff Products Company. (See Lee, Chris W.)
Great West Sales Corporation, Chicago, Ill. Malt syrups. 250,958; Dec. 18; Serial No. 270,025; published Sept. 25, 1928. Class 46.
Gruen Watch Company, The, Time Hill, Cincinnati, Ohio. Watches. 250,989; Dec. 18; Serial No. 268,095; published Sept. 25, 1928. Class 27.
Gumption Products Company, The. (See Raub, Elmer.)
Gustin-Bacon Manufacturing Company, Kansas City, Mo. Radioantennæ. 250,847; Dec. 18; Serial No. 269,116; published Oct. 9, 1928. Class 21.
Haas-Baruch & Company, Los Angeles, Calif. Canned vegetables and fruits, chop suey, etc. 250,796; Dec. 18; Serial No. 262,062; published Oct. 9, 1928. Class 46.
Halowax Corporation, New York, N. Y. Stencils and paper therefor. 250,836; Dec. 18; Serial No. 269,843; published Sept. 25, 1928. Class 37.
Hanford Chemical Company, Hanford, Calif. Applicators for eyeglass cleaners. 250,920; Dec. 18; Serial No. 266,535; published Oct. 9, 1928. Class 29.
Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover-Limmer, Germany, assignor to Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Certain rubber toys. 71,050; renewed Oct. 27, 1928.
Hanover Rubber Co. "Excelsior" Inc. (See Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, assignor.)
Hare Mfg. Co., Philadelphia, Pa. Electric neckwear pressers. 250,937; Dec. 18; Serial No. 270,590; published Sept. 25, 1928. Class 21.



Hawaiian Pineapple Company, Ltd., San Francisco, Calif., and Iwilei, Hawaii. Canned pineapple. 251,010; Dec. 18. Class 46.
Hawley & Hoops, New York, N. Y. Candy. 250,733; Dec. 18; Serial No. 271,045; published Oct. 9, 1928. Class 46.
Hellweil, Julius, doing business as The Bronx Home Products Company, New York, N. Y. Malt syrup. 250,890; Dec. 18; Serial No. 270,885; published Oct. 2, 1928. Class 46.
Henry, John B., New Orleans, La. Boots, slippers, and shoes. 250,905; Dec. 18; Serial No. 269,349; published Oct. 2, 1928. Class 39.
Hirschman, W. F., Co., Inc., Leroy and Buffalo, N. Y. Wind-actuated roof ventilators. 250,995; Dec. 18. Class 34.
Hoffheimer, Harry W., doing business as Velco Laboratories, Chicago, Ill. Cleaner and polish of glass and glassware. 250,747; Dec. 18; Serial No. 271,803; published Oct. 2, 1928. Class 4.
Holbrook Grocery Company, The, Keene, Woodsville, and Nashua, N. H. Canned vegetables, fruits, berries, baked beans, and clams. 73,446; renewed Apr. 20, 1929.
Hollinger, Samuel I., doing business as Hollinger Remedy Co., Elkhart, Ind. Medicine. 250,858; Dec. 18; Serial No. 263,824; published Aug. 28, 1928. Class 6.
Hollywood Color Company. (See Baker, Newton E.)
Home-Garden Publishing Co. (See Shield, Harold J.)
Horst, E. Clemens, Company, San Francisco, Calif. Canned fruits, canned vegetables. 251,015; Dec. 18. Class 46.
Houbigant, Inc., New York, N. Y. Manicure preparations. 250,915; Dec. 18; Serial No. 267,256; published Oct. 9, 1928. Class 6.
Hoyle, Joshua, & Sons, Ltd. Inc., New York, N. Y. Wearing apparel. 250,999; Dec. 18. Class 39.
Humble Oil & Refining Company, Houston, Tex. Gasoline and motor-fuel oils. 250,838-9; Dec. 18; Serial Nos. 269,785-6; published Oct. 9, 1928. Class 15.
Hump Hairpin Mfg. Co., The, Chicago, Ill. Hairpins. 251,011-3; Dec. 18. Class 40.
Hunt & Moore, Inc., New Haven, Conn. Safety rear-end reflectors for motor vehicles. 250,925; Dec. 18; Serial No. 265,435; published Oct. 9, 1928. Class 19.
Hunton & Hoxie Co., Inc., Boston, Mass. Letterheads. 250,834; Dec. 18; Serial No. 270,027; published Sept. 25, 1928. Class 37.
Huth & James Shoe Manufacturing Company, Milwaukee, Wis. Boots, shoes, and slippers. 250,957; Dec. 18; Serial No. 270,028; published Sept. 18, 1928. Class 39.
Ishihara, K., Company, also doing business as Ishihara Canning Co., San Francisco, Calif. Canned bamboo shoots. 250,792; Dec. 18; Serial No. 271,810; published Oct. 9, 1928. Class 46.
Jackson, Elanora G., Swampscott, Mass. Candies. 250,776; Dec. 18; Serial No. 268,735; published Oct. 9, 1928. Class 46.
Janszen Company, The, doing business as Janszen Grocery Company, Cincinnati, Ohio. Wall-paper cleaner. 250,919; Dec. 18; Serial No. 266,593; published Oct. 2, 1928. Class 4.
Jellerson-Rafter Company, Norway, Me. Boots and shoes. 250,734; Dec. 18; Serial No. 271,050; published Sept. 25, 1928. Class 39.
Joannes Brothers Company, Green Bay, Wis. Malt syrup. 250,964; Dec. 18; Serial No. 269,900; published Oct. 2, 1928. Class 46.
Johnson Motor Products Co. Inc., Chicago, Ill. Battery chargers. 250,842; Dec. 18; Serial No. 240,915; published Oct. 9, 1928. Class 21.
Kahabka, John, doing business as Teutonia Eye Salve Co., Buffalo, N. Y. Eye salve. 250,860; Dec. 18; Serial No. 263,475; published Aug. 14, 1928. Class 6.
Kane, Joseph W., doing business as Easy Oil Company, Pittsburgh, Pa. Lubricating oils. 250,833; Dec. 18; Serial No. 270,084; published Oct. 9, 1928. Class 15.
Kelley, Carl D., Wichita, Kans. Portable containers. 250,998; Dec. 18. Class 2.
Koenig, Edward J., Company, Chicago, Ill. Liturgical articles. 251,020; Dec. 18. Class 39.
Kohnstamm, H., & Co., Inc., New York, N. Y. Soap powder. 250,988; Dec. 18; Serial No. 268,162; published Oct. 2, 1928. Class 4.
Kosmos Mineral Water Company. (See Becker, Ferdinand W.)
Kovar, Joseph B., doing business as B-H Electrical Laboratories, Benton Harbor, Mich. Electric sadiron. 250,865; Dec. 18; Serial No. 262,613; published Sept. 25, 1928. Class 21.
Lakeside Products Company. (See Alfeld, Clarence E.)
Lanman & Kemp, Inc., New York, N. Y. Liquid tonic. 250,966; Dec. 18; Serial No. 269,848; published Oct. 9, 1928. Class 6.
Leader, Benjamin, Chicago, Ill. Finger rings, ornamental pins, pendants, etc. 250,840; Dec. 18; Serial No. 269,667; published Oct. 9, 1928. Class 28.
Lee, Chris W., doing business as Great Stuff Products Company, Minneapolis, Minn. Metal polish and top dressing. 250,969; Dec. 18; Serial No. 270,709; published Sept. 25, 1928. Class 4.
Lehnert, W. C., doing business as Frederick Malt & Products Co., Baltimore, Md. Malt syrup. 250,812; Dec. 18; Serial No. 271,132; published Oct. 9, 1928. Class 46.
Le-Mul Mfg. Co., St. Paul, Minn. Containers. 250,864; Dec. 18; Serial No. 262,720; published Oct. 9, 1928. Class 2.
Leschin Millinery Co., Inc., New York, N. Y. Women's hats. 250,730-1; Dec. 18; Serial No. 239,529-30; published Oct. 2, 1928. Class 39.
Lever Brothers Company, Portland, Me., and Cambridge, Mass., to Lever Brothers Company, Cambridge, Mass. Soap and soap powder. 71,026; renewed Oct. 27, 1928.
Lewel Mfg. Co. Inc., New York, N. Y. Bandeaux, brassières, girdles, and corsets. 250,768; Dec. 18; Serial No. 260,896; published Sept. 25, 1928. Class 39.
Levy, Charles M., & Son, New York, N. Y. Watches and clocks. 250,787; Dec. 18; Serial No. 258,639; published Jan. 31, 1928. Class 27.
Liddle, John, Co., Inc., Glens Falls, N. Y. Canned fruits and vegetables, pepper, etc. 250,916; Dec. 18; Serial No. 266,861; published Sept. 25, 1928. Class 46.
Luden's Inc., Reading, Pa. Candy. 250,773; Dec. 18; Serial No. 271,702; published Oct. 9, 1928. Class 46.
Ludy, Peter D., Boston, Mass. Leather-treating emulsions. 250,854; Dec. 18; Serial No. 264,315; published Oct. 2, 1928. Class 4.
Lyon Battery Works, Louisville, Ky. Batteries and battery parts. 250,830; Dec. 18; Serial No. 270,970; published Oct. 9, 1928. Class 21.
Mahn, Godfrey S., assignor to The Barkmahn Co. Inc., New York, N. Y. Smoking tobacco. 71,941; renewed Dec. 22, 1928.
Mallas, Louis J., Inc., New York, N. Y. Dresses, skirts for outer wear, panties, etc. 250,777; Dec. 18; Serial No. 268,874; published Sept. 18, 1928. Class 39.
Malt Age Publishing Company. (See Dubin, Joseph.)
Mangels-Herold Co., Inc., Baltimore, Md. Compound of corn syrup, refiner's syrup, etc. 250,953; Dec. 18; Serial No. 270,086; published Oct. 2, 1928. Class 46.
Martin Dennis Company, The, Newark, N. J. Cod-liver oil for mixing with chicken and cattle feed. 250,976; Dec. 18; Serial No. 268,619; published Oct. 9, 1928. Class 6.
Martin, Eben F., Lynn, Mass. Boots, shoes, and slippers. 250,980; Dec. 18; Serial No. 268,553; published Sept. 25, 1928. Class 39.
McGraw-Shaw Company, Chicago, Ill. Magazine. 250,807; Dec. 18; Serial No. 262,369; published Sept. 25, 1928. Class 38.
McGuire, James E., Camden, N. J. Automobile top dressing. 250,885; Dec. 18; Serial No. 270,999; published Oct. 9, 1928. Class 4.
McIntyre, William A., Beavercreek, Oreg. Preparation used in exterminating Canadian thistle, etc. 250,932; Dec. 18; Serial No. 269,130; published Oct. 2, 1928. Class 6.
Merchants Oil Co. (See Siemer, Henry J.)
Metal & Thermit Corporation, Carteret, N. J. —Sodium antimonate, thermalin, and tin oxide. 250,743; Dec. 18; Serial No. 271,192; published Oct. 9, 1928. Class 6.
Meyer, H. H., Packing Company, The, Cincinnati, Ohio. Tomato catsup. 250,945; Dec. 18; Serial No. 270,383; published Sept. 25, 1928. Class 46.
Milwaukee Delicatessen, Inc., Lincoln, Nebr. Malt extract. 250,737; Dec. 18; Serial No. 271,139; published Oct. 2, 1928. Class 46.
Milwaukee Saddlery Company, Milwaukee, Wis. Harness. 250,868; Dec. 18; Serial No. 262,233; published Sept. 25, 1928. Class 3.
Missy Hat Co., Inc., New York, N. Y. Hats and tams. 250,878; Dec. 18; Serial No. 270,775; published Sept. 18, 1928. Class 39.
Moccasin Bushing Company, Chattanooga, Tenn. Self-oiling trolley wheels, bushings, etc. 250,831; Dec. 18; Serial No. 270,776; published Oct. 9, 1928. Class 21.
Morse, Hollis H., Atlanta, Ga., assignor, by mesne assignments, to Orange Smile Syrup Company, St. Louis, Mo. Carbonated nonalcoholic beverage. 69,468; renewed June 16, 1928.
Municipal Shoe Co., Inc., New York, N. Y. Shoes. 250,910; Dec. 18; Serial No. 269,197; published Sept. 25, 1928. Class 39.
Muscle Malt Products, Chicago. (See Trefny, James J.)
Mutual Stores, Inc., Oakland, Calif. Pure sage honey, relish spread, fish, etc. 250,894; Dec. 18; Serial No. 264,496; published Oct. 2, 1928. Class 46.
Naamlooze Vennootschap International Perfumery Company, Amsterdam, Netherlands. Eau de Cologne, bath salt, perfumery, etc. 250,813; Dec. 18; Serial No. 268,380; published Oct. 9, 1928. Class 6.
Nestlé, The Firm of Henri, London, England; Christiania, Norway; and Vevey, Switzerland, assignor, by mesne assignments, to Nestle's Food Company, Inc., New York, N. Y. Condensed milk. 32,742; renewed Apr. 18, 1929.
New England Panama Hat Co., Inc., New York, N. Y. Straw, Panama, and felt hats. 250,936; Dec. 18; Serial No. 270,602; published Sept. 18, 1928. Class 39.
Newnamel Inc., doing business as Newnamel Manufacturing Co., New Orleans, La. Cleaning preparation. 250,909; Dec. 18; Serial No. 269,199; published Oct. 9, 1928. Class 16.
News Messenger Publishing Co., Marshall, Tex., and Shreveport, La. Periodical. 250,889; Dec. 18; Serial No. 270,936; published Sept. 25, 1928. Class 38.
Nokal Co., Cleveland, Ohio. Remedy for the treatment of corns and callouses. 250,788; Dec. 18; Serial No. 271,141; published Oct. 9, 1928. Class 6.

Norm Manufacturing Co. (See Thurston, Walter R.)
Odor-Nox Chemical Co., Chicago, Ill. Body deodorant. 250,952; Dec. 18; Serial No. 270,142; published Oct. 9, 1928. Class 6.
Odorono Company, The, Cincinnati, Ohio. Depilatory. 250,960; Dec. 18; Serial No. 269,978; published Oct. 9, 1928. Class 6.
Odorono Company, The, Cincinnati, Ohio. Deodorant powder. 250,961; Dec. 18; Serial No. 269,977; published Oct. 9, 1928. Class 6.
Oppenheim, Collins & Co. Inc., Wilmington, Del.; New York, Brooklyn, and Buffalo, N. Y.; Newark, N. J.; and Philadelphia, Pa. Shoes. 251,016; Dec. 18. Class 39.
Oppenheim, Jesse, New York, N. Y. Hair combs and hair pieces. 250,788; Dec. 18; Serial No. 259,690; published Sept. 18, 1928. Class 40.
Orange Smile Syrup Company. (See Morse, Hollis H., assignor.)
Orr, J. K., Shoe Company, The, Atlanta, Ga. Shoes. 250,906; Dec. 18; Serial No. 269,311; published Oct. 2, 1928. Class 39.
Pacific Coast Syrup Co. (See Tea Garden Products Co.)
Packard, M. A., Company, Brockton, Mass. Boots and shoes. 250,979; Dec. 18; Serial No. 268,538; published Sept. 25, 1928. Class 39.
Page Milling Co., The, Luray, Va. Wheat flour, self-rising flour, etc. 250,913; Dec. 18; Serial No. 267,821; published Oct. 2, 1928. Class 46.
Paint Engineers, Inc., Chicago, Ill. Paints, lacquers, varnish, etc. 250,926; Dec. 18; Serial No. 265,399; published Oct. 9, 1928. Class 16.
Parks-Cramer Company. (See Thompson, Albert W., assignor.)
Penick & Ford, Ltd., New York, N. Y. Molasses. 250,951; Dec. 18; Serial No. 270,199; published Sept. 25, 1928. Class 46.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Stationery. 250,795; Dec. 18; Serial No. 261,928; published Sept. 25, 1928. Class 37.
Pennsylvania Petroleum Products Co., Philadelphia, Pa. Oils and lubricants. 251,000; Dec. 18. Class 15.
Perfection Biscuit Company, Fort Wayne, Ind. Cocoanut macaroons. 250,736; Dec. 18; Serial No. 271,078; published Sept. 25, 1928. Class 46.
Perfecto Manufacturing Co., Chicago, Ill. Penetrating oil. 250,845; Dec. 18; Serial No. 269,000; published Oct. 9, 1928. Class 15.
Perry, Charles E., Philadelphia, Pa. Card games. 250,757; Dec. 18; Serial No. 228,558; published May 4, 1926. Class 22.
Pexel Co., The, Chicago, Ill. Unflavored prepared fruit pectin. 250,744; Dec. 18; Serial No. 271,194; published Oct. 9, 1928. Class 46.
Pierce, S. S., Co., Boston, Mass. Cigars. 32,739; renewed Apr. 18, 1929.
Plomar Products Corp., Pittsburgh, Pa. Olive-oil soap and shaving cream in the nature of soap. 250,911; Dec. 18; Serial No. 267,718; published Oct. 9, 1928. Class 4.
Popular Aviation Publishing Company, Chicago, Ill. Monthly magazines. 250,751; Dec. 18; Serial No. 271,566; published Oct. 9, 1928. Class 38.
Precooling Car Service Co. (See Day, Fred J.)
Premier Grand Piano Corporation, New York, N. Y. Radio receiving sets, etc. 250,853; Dec. 18; Serial No. 269,429; published Oct. 9, 1928. Class 21.
Press Publishing Company, New York, N. Y. Title for a comic strip. 250,793; Dec. 18; Serial No. 271,820; published Oct. 9, 1928. Class 38.
Primrose Novelty Corporation, New York, N. Y. Devices not made of precious metal for attaching and supporting shoe buckles. 250,759; Dec. 18; Serial No. 234,677; published Sept. 18, 1928. Class 40.
Rail Steel Bar Association, Chicago, Ill. Educational bulletins and literature. 250,904; Dec. 18; Serial No. 269,426; published Oct. 2, 1928. Class 38.
Rauh, Elmer, doing business as The Gumption Products Company, Dayton, Ohio. Soap with detergent properties. 250,855; Dec. 18; Serial No. 264,199; published Sept. 25, 1928. Class 4.
Registrar and Transfer Company, New York, N. Y. Periodical. 250,748; Dec. 18; Serial No. 271,315; published Sept. 25, 1928. Class 38.
Reliable Storage Battery & Plates Mfg. Co., The, Chicago, Ill. Electric storage batteries and parts thereof. 250,811; Dec. 18; Serial No. 271,199; published Oct. 9, 1928. Class 21.
Republic Paint & Varnish Works, Chicago, Ill. Varnishes, varnish stains, and paint enamels. 250,786; Dec. 18; Serial No. 258,494; published Oct. 9, 1928. Class 16.
Reynolds & Reynolds Company, The, Dayton, Ohio. Manifold forms. 250,810; Dec. 18; Serial No. 271,360; published Oct. 9, 1928. Class 37.
Richards, Maurice, New York, N. Y. Finger rings. 250,901; Dec. 18; Serial No. 269,483; published Sept. 25, 1928. Class 28.
Richfield Oil Company of California, Los Angeles, Calif. Petroleum products. 250,852; Dec. 18; Serial No. 269,350; published Oct. 9, 1928. Class 15.
Richfield Oil Company of California, Los Angeles, Calif. Lubricating oil. 250,859; Dec. 18; Serial No. 263,515; published June 26, 1928. Class 15.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Fruit preserves, vegetable fat, honey, etc. 250,800; Dec. 18; Serial No. 268,623; published Oct. 9, 1928. Class 46.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Aluminum cleanser, scouring powder, steel wool, and soap. 250,918; Dec. 18; Serial No. 266,619; published Oct. 9, 1928. Class 4.
Rosenstock, Louis, doing business as Ulster Manufacturing Co., Ellenville, N. Y. Trousers, knickers, breeches, etc. 250,994; Dec. 18. Class 39.
Rosenzweig, Albert, Akron, Ohio. Men's suits and overcoats. 251,004; Dec. 18. Class 39.
St. Meinrad Abbey, St. Meinrad, Ind. Monthly magazine. 250,752; Dec. 18; Serial No. 271,633; published Oct. 9, 1928. Class 38.
Saks & Co., New York, N. Y. Silver tableware, silver flatware, etc. 250,908; Dec. 18; Serial No. 269,208; published Sept. 18, 1928. Class 28.
Salgado y Compania, S. A. Union Comercial de Aceites, Madrid, Sevilla, and Vilches, Spain. Edible oils of all kinds. 250,871; Dec. 18; Serial No. 261,723; published Sept. 18, 1928. Class 46.
San Diego Coffee Company. (See Ballou, G. H., Company.)
Sapolin Co. Inc., New York, N. Y. Aluminum glaze. 250,923; Dec. 18; Serial No. 265,577; published Oct. 9, 1928. Class 16.
Sapolin Co. Inc., New York, N. Y. Gold glaze. 250,924; Dec. 18; Serial No. 265,576; published Oct. 9, 1928. Class 16.
Schaefer-Johnston Co., New York, N. Y. Tabularized blank books. 250,794; Dec. 18; Serial No. 261,913; published Sept. 25, 1928. Class 37.
Schlacht, Herman, New York, N. Y. Watchcases. 250,779; Dec. 18; Serial No. 268,940; published Sept. 25, 1928. Class 27.
Schneider Bros. Millinery Co., St. Louis, Mo. Ladies' and misses' hats. 250,784; Dec. 18; Serial No. 258,100; published Sept. 18, 1928. Class 39.
Sealed Containers Corporation, New York, N. Y. Paper bottles. 250,949; Dec. 18; Serial No. 270,305; published Oct. 9, 1928. Class 2.
Seaport Coffee Co., Inc., Houston, Tex. Coffee. 250,774; Dec. 18; Serial No. 271,711; published Oct. 9, 1928. Class 46.
Selby Shoe Co., The, Portsmouth, Ohio. Boots and shoes. 250,956; Dec. 18; Serial No. 270,052; published Sept. 18, 1928. Class 39.
Service Grocer Company, Inc., Detroit, Mich. Seeds used as food, and herbs. 250,928; Dec. 18; Serial No. 264,388; published Sept. 25, 1928. Class 46.
Sgobel & Day, Inc., New York, N. Y. Fresh fruits and vegetables. 250,861; Dec. 18; Serial No. 263,435; published June 12, 1928. Class 46.
Shapiro, Ira J., New York, N. Y. Clocks. 250,963; Dec. 18; Serial No. 269,920; published Sept. 25, 1928. Class 27.
Sheffield Bronze Powder Co., Cleveland, Ohio. Bronze powder. 250,749; Dec. 18; Serial No. 271,457; published Oct. 9, 1928. Class 16.
Sherwood Bros. Inc., Baltimore, Md. Gasoline, lubricating oils, and lubricating greases. 250,799; Dec. 18; Serial No. 265,860; published Oct. 9, 1928. Class 15.
Shield, Harold J., doing business as the Home-Garden Publishing Co., San Francisco, Calif. Periodical. 250,881; Dec. 18; Serial No. 270,728; published Sept. 25, 1928. Class 38.
Siemer, Henry J., doing business as Merchants Oil Co., Cincinnati, Ohio. Lubricating oil. 250,805; Dec. 18; Serial No. 268,116; published Oct. 9, 1928. Class 15.
Snyder, Edgar D., doing business as Snyder's Dairy, Hazleton and Bloomsburg, Pa. Milk, cream, chocolate milk, etc. 250,754; Dec. 18; Serial No. 252,981; published Oct. 2, 1928. Class 46.
Soda-Dent Company, The. (See Brightfield, Lloyd O., assignor.)
Spalding, A. G., & Bros., New York, N. Y. Roller skates. 250,935; Dec. 18; Serial No. 269,611; published Oct. 9, 1928. Class 22.
Spiegel, Moe, Middletown, N. Y. Insecticide and fungicide. 250,940; Dec. 18; Serial No. 270,521; published Oct. 9, 1928. Class 6.
Spray Coffee and Spice Company, The, Denver, Colo. Roasted coffee mixture, teas, spices, etc. 250,764; Dec. 18; Serial No. 255,404; published Sept. 25, 1928. Class 46.
Spreckels, J. D. and A. B., Securities Company, San Francisco, Calif. Sugar. 250,841; Dec. 18; Serial No. 216,294; published June 21, 1927. Class 46.
Standard Accident Insurance Company, Detroit, Mich. Booklets. 250,709; Dec. 18; Serial No. 271,604; published Oct. 9, 1928. Class 38.
Standard Oil Company of New Jersey, Wilmington, Del. Hydrocarbon solvents. 250,866; Dec. 18; Serial No. 262,419; published Oct. 2, 1928. Class 4.
Stein, Hall Manufacturing Company, Chicago, Ill. Chocolate coating and centers. 250,775; Dec. 18; Serial No. 271,715; published Oct. 9, 1928. Class 46.
Stern Brothers, New York, N. Y. Caps, hats, shoes, slippers, etc. 250,977–8; Dec. 18; Serial Nos. 268,567–8; published Sept. 25, 1928. Class 39.
Stern Brothers, New York, N. Y. Shoes. 251,022; Dec. 18. Class 39.



Stewart Battery Co., Chicago, Ill. Radiocondensers and electron tubes and battery-charging rectifiers. 250,873; Dec. 18; Serial No. 261,153; published Sept. 25, 1928. Class 21.
Storfer Laboratories Inc., New York, N. Y. Bath salts. 250,763; Dec. 18; Serial No. 244,416; published June 7, 1927. Class 6.
Studna, Carl, doing business as Superba Gasoline & Oil Company, Kansas City, Mo. Gasoline, lubricating and fuel oils, and lubricating greases. 250,761; Dec. 18; Serial No. 237,707; published Nov. 15, 1927. Class 15.
Superba Gasoline & Oil Company. (See Studna, Carl.)
Syndicate Trading Company, New York, N. Y. Coats and dresses. 251,002; Dec. 18. Class 39.
Taylor & Co., Inc., Newark, N. J. Watch bracelets, lorgnette chains, etc. 250,835; Dec. 18; Serial No. 269,995; published Oct. 9, 1928. Class 28.
Tea Garden Products Co., formerly doing business as Pacific Coast Syrup Co., San Francisco, Calif. Honey. 250,837; Dec. 18; Serial No. 269,809; published Oct. 9, 1928. Class 46.
Tea Garden Products Co., San Francisco, Calif. Table syrup. 250,895; Dec. 18; Serial No. 269,806; published Oct. 2, 1928. Class 46.
Tea Garden Products Co., also doing business as Pacific Coast Syrup Co., San Francisco, Calif. Combination of refiner's syrup. 250,967; Dec. 18; Serial No. 269,812; published Sept. 25, 1928. Class 46.
Tea Garden Products Co., San Francisco, Calif. Molasses. 250,968; Dec. 18; Serial No. 269,808; published Oct. 2, 1928. Class 46.
Teutonia Eye Salve Co. (See Kahabka, John.)
Theta Dry Stencil Corporation, The, New York, N. Y. Dry stencils. 250,803; Dec. 18; Serial No. 267,519; published Oct. 9, 1928. Class 37.
Thompson, Albert W., Manchester, N. H., and Fitchburg, Mass., assignor, by mesne assignments, to Parks-Cramer Company, Boston, Mass. Humidifiers. 73,144; renewed Mar. 16, 1929.
Thurston, Walter R., doing business as Norm Manufacturing Co., Los Angeles, Calif. Sealing compound. 250,917; Dec. 18; Serial No. 266,841; published Oct. 2, 1928. Class 5.
Tomlinson, W. H., & Co., Bay City, Mich. Boots, shoes, and slippers. 251,018; Dec. 18. Class 39.
Torn, L., Los Angeles, Calif. Salted nuts and nuts in their natural state and honey-dried fruits. 250,992; Dec. 18; Serial No. 268,006; published Sept. 25, 1928. Class 46.
Trefny, James J., doing business as Muscle Malt Products, Chicago, Ill. Malt extract. 250,955; Dec. 18; Serial No. 270,062; published Sept. 25, 1928. Class 46.
Trumbull Electric Manufacturing Company, The, Plainville, Conn. Soap holders, tumbler holders, grab rails, paper holders, etc. 250,758; Dec. 18; Serial No. 224,308; published Mar. 23, 1926. Class 13.
Trust Oil Company, Perth Amboy, N. J. Belt dressing. 250,959; Dec. 18; Serial No. 269,998; published Oct. 9, 1928. Class 4.
Tuxedo Hat Body Corporation, The, New York, N. Y. Felt bodies for ladies' hats. 250,785; Dec. 18; Serial No. 258,365; published Oct. 2, 1928. Class 39.
Ulmann, Bernhard, & Co., assignor to Bernhard Ulmann Co. Inc., New York, N. Y. Thread, floss, and rope for ornamental purposes. 72,302; renewed Jan. 19, 1929.
Ulster Manufacturing Co. (See Rosenstock, Louis.)
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 250,974; Dec. 18; Serial No. 268,713; published Sept. 25, 1928. Class 15.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 250,806; Dec. 18; Serial No. 268,717; published Sept. 25, 1928. Class 15.
Union Oil Company of California, Los Angeles, Calif. Lubricating oils, waxes, and greases. 250,807; Dec. 18; Serial No. 268,719; published Sept. 25, 1928. Class 15.
United Publishing Company, Kansas City, Mo. Periodical. 250,888; Dec. 18; Serial No. 270,946; published Sept. 25, 1928. Class 38.
Universal Mills, Fort Worth, Tex. Food for hogs. 250,965; Dec. 18; Serial No. 269,875; published Sept. 25, 1928. Class 46.
Upjohn Company, The, Kalamazoo, Mich. Debuffering milk modifier. 250,750; Dec. 18; Serial No. 271,516; published Oct. 9, 1928. Class 6.
Val Blatz Brewing Company, Milwaukee, Wis. Malt syrup. 250,934; Dec. 18; Ser. No. 270,617; published Oct. 2, 1928. Class 46.
Velco Laboratories. (See Hoffheimer, Harry W.)
Vickers Petroleum Company, The, Wichita, Kans. Gasoline. 250,849; Dec. 18; Serial No. 269,213; published Oct. 9, 1928. Class 15.
Washington Growers Packing Corporation, also doing business as Washington Canners Co-Operative, Vancouver, Wash. Canned fruits. 250,745; Dec. 18; Serial No. 271,220; published Oct. 9, 1928. Class 46.
Watson, Thomas A., Philipsburg, Pa. Gun sights. 250,993; Dec. 18.
Webster, William A., Company, The, Memphis, Tenn. Shaving-soap cream. 250,991; Dec. 18; Serial No. 268,011; published Oct. 2, 1928. Class 4.
Weidlich Bros. M'f'g. Co., The, Bridgeport, Conn. Gold and silverplated novelties. 250,948; Dec. 18; Serial No. 270,308; published Sept. 25, 1928. Class 28.
Weil & Durrsé, New York, N. Y. Tablecloths, napkins, towels, etc. 250,892; Dec. 18; Serial No. 270,868; published Oct. 9, 1928. Class 42.
Wesley, Edward, & Company, Cincinnati, Ohio. Haircombing liquid. 250,921; Dec. 18; Serial No. 266,501; published Oct. 9, 1928. Class 6.
Western Stories Publishing Corp., New York, N. Y. Quarterly publication. 250,770; Dec. 18; Serial No. 271,672; published Oct. 9, 1928. Class 38.
White Luggage Co., Inc., New York, N. Y. Hatboxes. 250,981; Dec. 18; Serial No. 268,524; published Sept. 25, 1928. Class 3.
White-Warner Co., The, Taunton, Mass. Stoves, ranges, and furnaces. 73,431; renewed Apr. 20, 1929.
Whiting-Adams Company, Boston, Mass. Brushes. 250,944; Dec. 18; Serial No. 270,405; published Oct. 9, 1928. Class 20.
Windsor Soap Co., Inc., Buffalo, N. Y. Castile soap. 250,870; Dec. 18; Serial No. 262,010; published Sept. 25, 1928. Class 4.
Wurlitzer, Rudolph, Company, The, Cincinnati, Ohio. Guitars and mandolins. 73,601; renewed May 4, 1929.
Wyoming Malt and Hops Supply Co. (See Cairns, Patrick.)
Yale Electric Corporation, Jersey City, N. J. Electric lanterns, flash lights, electric candles, etc. 250,832; Dec. 18; Serial No. 270,564; published Oct. 9, 1928. Class 21.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Amend, Fred W., Co., Chicago, Ill. Cuckies Circus-Box. For Candy. 35,091; Dec. 18.
Aunt Nellie's Farm Kitchen, Inc., Hartford, Wis. Aunt Nellie's. For Canned Peas. 35,092; Dec. 18.
Barnett & Sibille Co., Sunset, La. Bandsco. For Fresh Sweet Potatoes. 35,093; Dec. 18.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Spearmint Candy Coated Gum—Beechies. For Candy-Coated Chewing Gum. 35,094; Dec. 18.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Fruit Flavored Candy Coated Gum—Beechies. For Candy-Coated Chewing Gum. 35,095; Dec. 18.
Becker Baking Company. (See Menasha Printing and Carton Company, assignor.)
Bleecker Shoe Co., Inc., New York, N. Y. Monte Carlo Sandal. For Footwear. 35,096; Dec. 18.
Bleecker Shoe Co., Inc., New York, N. Y. Dr. Miles Health Shoe. For Footwear. 35,097; Dec. 18.
Bright Automatic Machine Co., Inc., New York, N. Y. The Globe Screen Door Check & Closer. For Doorchecks. 35,098; Dec. 18.
Corazo Cigar Company, The, Philadelphia, Pa. Penlo. For Cigars. 35,099; Dec. 18.
Frisch, Emile, Chicago, Ill. Frisch Process. For Bread. 35,100; Dec. 18.
General Baking Company, New York, N. Y. Countess Cake. For Dark Fruit Cake. 35,101; Dec. 18.
Gilliam Candy Company, Paducah, Ky. Shredded Sweet Biscuit. For Candy. 35,102; Dec. 18.
Greenstein & Josephson, New York, N. Y. The Invisible Adjustable. For Caps for Men, Boys, and Children. 35,103; Dec. 18.
Grennan Bakeries, Inc., Chicago, Ill. Grennan Cakes (Made from Tested Cook Book Recipes) Cookies Every Bite a Delight. For Fruit Cake. 35,104; Dec. 18.
Hamilton, John D., Company, The, Tacoma, Wash. Chewee. For Candy. 35,105; Dec. 18.
Johnson's Bakery Inc., Deridder, La. Jumbo Twins. For Bread. 35,106; Dec. 18.
Katsafanas Coffee Company, Northside, Pittsburgh, Pa. Katsafana's Hotel Special. For Coffee. 35,107; Dec. 18.
Kemp, Edward F., Somerville and Boston, Mass. Colored Twist Ends Home Made Cream Pe-Nu-Che. For Chocolate-Covered Cream Pe-Nu-Che Candy. 35,108; Dec. 18.
Kemp, Edward F., Somerville and Boston, Mass. Colored Twist Ends Home Made Cream Checkerberry. For Chocolate-Covered Cream Checkerberry Candy. 35,109; Dec. 18.
Kemp, Edward F., Somerville and Boston, Mass. Colored Twist Ends Home Made Cream Peppermint. For Chocolate-Covered Cream Peppermint Candy. 35,110; Dec. 18.
Keystone Chemical Co., Inc., Cleveland, Ohio. Keyspray. For Insecticide. 35,111; Dec. 18.
Ladder Manufacturers Association of America, The, Chicago, Ill. A Safe Ladder. For Ladders. 35,112; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Becker Baking Company, East St. Louis, Ill. Radio Bread. For Bread. 35,113; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis., assignor to The Sumner Creamery Company, Canton, Ohio. Tuscarawas. For Butter. 35,114; Dec. 18.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Miller and Holmes St. Paul, Minn. Oriole. For Butter. 35,115; Dec. 18.

Miller & Holmes, St. Paul, Minn. Como Butter. For Butter. 35,116; Dec. 18.
Miller and Holmes. (See Menasha Printing and Carton Company, assignor.)
Mornanite Laboratories, Inc., New York, N. Y. The Mornanite Dental Creams. For Dental Creams. 35,117; Dec. 18.
Pascal, P., Inc., New York, N. Y. The Long Expected Coffee. For Coffee. 35,118; Dec. 18.
Payne, Marshall A., D. D. S., Wabash Ind. Pyrro. For Home Treatment for Pyorrhea, Sore, Bleeding, Receding, Swollen, Spongy Gums, and Bad Breath. 35,119; Dec. 18.
Remington Arms Company, Inc., Bridgeport, Conn., Illion and New York, N. Y. Skeet Loads. For Ammunition. 35,120; Dec. 18.
Rumidor Corporation, The, Union City, N. J. Rum Refil for the Rumidor. For a Smoker's Article for Flavoring and Moistening Cigars, Cigarettes, and Pipe Tobacco. 35,121; Dec. 18.
Sumner Creamery Company, The. (See Menasha Printing and Carton Company, assignor.)
Weber, Margaret, Los Angeles, Calif. La Margé Cucumber-Almond Creme. For Cold Cream. 35,122; Dec. 18.
Western States Mfg. Co., Sioux City, Iowa. Western Weld Special Cement. For Special Nonfreezing Cement for Cementing Tire Patches. 35,123; Dec. 18.

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Armstrong Grocery Company, Sharon, Pa. Better Grocers Incorp. For Groceries. 11,381; Dec. 18.
Bell Perfume Co. (See Freid, Samuel M.)
Cream of Wheat Co., Minneapolis, Minn. Vermont Teachers find this Ingenious Material Grips Children's Attention. For Wheat Breakfast Food. 11,382; Dec. 18.
Defiance Spark Plugs, Inc., Toledo, Ohio. C. E. Lewis. For Spark Plugs. 11,383; Dec. 18.
Devlr, Joseph P., Philadelphia, Pa. Drink Pep, a Beverage. For Beverage. 11,384; Dec. 18.
Freid, Samuel M., doing business as Bell Perfume Co., Chicago, Ill. Win a Brand New Ford Sedan. For Perfume. 11,385; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. For Real Buckwheat Pancakes. For Buckwheat Flour. 11,386; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. Waffles and Pancakes. For Old Homestead Pancake Flour. 11,387; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. You Can't Buy a Cake like this. For New Presto Improved Cake Flour. 11,388; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. Hearts of Selected Wheat. For Cream Farina. 11,389; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. For Real Old Fashioned Buckwheats. For Buckwheat Flour. 11,390; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. New Presto. For New Presto Improved Cake Flour. 11,391; Dec. 18.
Hecker H-O Co. Inc., Buffalo, N. Y. The New Kind of Oatmeal. For New-Style H-O (Quick-Cooking Oats). 11,392; Dec. 18.
National Merchandising Service Co., Cleveland, Ohio. United Food Stores. For Groceries and Provisions. 11,394; Dec. 18.
Pacquemoux, Auguste F., Miami, Fla. Chez Francois. For Crystallized Fruits and Candies. 11,393; Dec. 18.
Schmid, Julius, Inc., New York, N. Y. Harva—Bobbed Hair Combs. For Combs. 11,395; Dec. 18.
Schmid, Julius, Inc., New York, N. Y. Harva Women's Dressing Combs. For Combs. 11,396; Dec. 18.
Scholl, Henry L., Watertown, Wis. One Cent Scarf. For Dresser Scarfs. 11,397; Dec. 18.
Scholl, Henry L., Watertown, Wis. One Cent Vanity Set or Scarf. For Pillowcases, Scarfs, and Vanity Sets. 11,398–400; Dec. 18.
Scholl, Henry L., Watertown, Mass. One Cent Luncheon Set. For Luncheon Sets. 11,401; Dec. 18.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abilene Candy Mfg. Co., Abilene, Tex. Candy. 274,249; Dec. 18. Class 46.
Agricultural Chemical Works, Inc., Los Angeles, Calif. Meallike substance used in destroying garden and lawn insects. 266,410; Dec. 18. Class 6.
Alcardi, James A., & Sons Inc., Boston, Mass. Food preparations. 264,858; Dec. 18. Class 46.
American Chicle Company, Long Island City, N. Y. Chewing gum. 273,856; Dec. 18. Class 46.
Amster, Joseph, doing business as Squill Manufacturing Co., New York, N. Y. Exterminator for killing rats and mice. 271,871; Dec. 18. Class 6.
Anderson-Prichard Oil Corporation, Oklahoma City, Okla. Rubber solvent. 272,453–4; Dec. 18. Class 6.
Armand Company, The, Des Moines, Iowa. Face and talcum powder, rouge, cold cream, hair wash, etc. 217,750–1; Dec. 18. Class 6.
Armand Company, The, Des Moines, Iowa. Perfume. 261,475; Dec. 18. Class 6.
Armstrong Packing Company, The, Dallas, Tex. Oleomargarine. 274,086; Dec. 18. Class 46.
Arnold, Dean A., Lansing, Mich. Tonic laxative. 271,954; Dec. 18. Class 6.
Aspinook Co., The, Jewett City, Conn. Pyroxylin-treated fabrics. 273,487; Dec. 18. Class 50.
Associated Apparel Industries, Inc. (See Gossard, H. W., Company, The.)
Associated Laboratories, Inc., doing business as The Rheunesia Company, New York, N. Y. Medicinal tablet. 273,737; Dec. 18. Class 6.
Avon Tinware Mfg. Corp., Brooklyn, N. Y. Garbage cans. 264,271; Dec. 18. Class 2.
Baldauf Drug Company, Milwaukee, Wis. Salve. 273,793; Dec. 18. Class 6.
Ball & Socket Manufacturing Company, The, West Cheshire, Conn. Metal plant and tree labels or tags. 266,078; Dec. 18. Class 50.
Battery Parts Company, Inc., Wilkinsburg, Pa. Electric-battery cables and wires, etc. 260,710; Dec. 18. Class 21.
Baugh and Sons Company, Philadelphia, Pa. Fertilizers. 274,430; Dec. 18. Class 10.
Bellman Brook Bleachery Co., Fairview, N. J. Cotton and rayon textile fabrics. 275,203; Dec. 18. Class 42.
Bettercleaning Equipment & Service Incorporated, Akron, Ohio. Dry-cleaning fluid. 274,698; Dec. 18. Class 4.
Biondi, Jacob, Baltimore, Md. Preparation for growing hair. 273,573; Dec. 18. Class 6.
Bisodol Company, The, New Haven, Conn. Medicinal preparation. 273,795; Dec. 18. Class 6.
Bohack, H. C., Co., Inc., Brooklyn, N. Y. Bread. 274,032; Dec. 18. Class 46.
Bohack, H. C., Co., Inc., Brooklyn, N. Y. Cake. 274,033; Dec. 18. Class 46.
Bokay Laboratories, Incorporated, Tulso, Okla. Filters and refills for filters. 278,179; Dec. 18. Class 31.
Boudreault, Philippe N., Montreal, Quebec, Canada. Hair tonic. 270,461; Dec. 18; Class 6.
Brooks, E. J., and Company, New York, N. Y. Metal laundry fasteners. 272,467; Dec. 18. Class 24.
Brown Company, Portland, Me., and Berlin, N. H. Sheathing paper. 273,441; Dec. 18. Class 12.
Brown, Tom, Music Company, Chicago, Ill. Saxophones, clarinets, bassoons, etc. 264,836; Dec. 18. Class 36.
Burcot Products Company, Brunswick, Ga. Cotton fabric. 275,205; Dec. 18. Class 42.
Byrne & Hammer Dry Goods Co., Omaha, Nebr. Men's and boys' overcoats, sheepskin coats, and other leather coats. 273,646; Dec. 18. Class 39.
Calkins, Clifford H., doing business as Tercal Company, Elmira, N. Y. Antifreeze mixture used in automobile radiators. 271,918; Dec. 18. Class 6.
Carlos Ruggles Lumber Co., Springfield, Mass. Lumber and lumber products. 273,538; Dec. 18. Class 12.
Carolina, Fannie L., Georgetown, S. C. Preparation for treating dandruff, etc. 272,823; Dec. 18. Class 6.
Cavendish Chemical Corp., New York, N. Y. Preparation for treatment of obesity. 269,086; Dec. 18. Class 6.
Central Michigan Paper Company, Grand Rapids, Mich. Paper and cloth gummed tapes. 274,098; Dec. 18. Class 37.
Chase Brass & Copper Co., Waterbury, Conn. Sheet-Metal elbows. 273,862; Dec. 18. Class 12.
Chemische Fabrik Gruenau Landshoff & Meyer Aktiengesellschaft, Gruenau, Germany. Stones and artificial stones, cement, etc. 270,236; Dec. 18. Class 12.
Chicago Association of Commerce, The, Chicago, Ill. Publication. 270,414; Dec. 18. Class 38.
Christopher, L. J., Company, Los Angeles, Calif. Ice cream. 262,696; Dec. 18. Class 46.
Christopher, L. J., Company, Los Angeles, Calif. Chocolates. 262,697; Dec. 18. Class 46.
Cinelin Company. (See Sereinaky, Louis R.)
Clopin Company, Inc., Poughkeepsie, N. Y. Medicinal preparation. 273,740; Dec. 18. Class 6.
Club Aluminum Utensil Company, The, doing business as The Club Aluminum Company, Chicago, Ill. Electric heating pads. 268,484; Dec. 18. Class 21.
Club Aluminum Utensil Company, The, Chicago, Ill. Electric vacuum cleaner. 273,446; Dec. 18. Class 21.



PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cohn & Bock Company, Princess Anne, Md. White corn meal. 273,226; Dec. 18. Class 46.
Cohn Hall Marx Co., New York, N. Y. Cotton and cotton and rayon fabrics. 274,260; Dec. 18. Class 42.
Conklin Pen Company, The, Toledo, Ohio. Fountain pens and pencils. 275,020; Dec. 18. Class 37.
Conrads, Hermann, San Marcos, Tex. Cottonseed. 272,865; Dec. 18. Class 1.
Consumers Chemical Company. (See Guindon, William J.)
Curtiss Candy Company, The, Chicago, Ill. Candy. 275,022–3; Dec. 18. Class 46.
Davies-Strauss-Stauffer Co., Easton, Pa. Fruit preserves and jelly, apple butter, canned beets, etc. 272,200; Dec. 18. Class 46.
De Ayestarán, Luis, New York, N. Y. Hair tonics and after-shaving lotions. 273,040; Dec. 18. Class 6.
Dee, Walter J., doing business as Joseph Dee & Sons, Cheetham, England. Chemical preparation. 274,636; Dec. 18. Class 6.
Delco-Remy Corporation, Anderson, Ind., and Dayton, Ohio. Storage batteries. 272,983; Dec. 18. Class 21.
Del Valle, Carlos M., M. D., doing business as Nidol Co., New York, N. Y. Solution of iodine. 274,208; Dec. 18. Class 6.
De Martini-Macaroni Co., Inc., Brooklyn, N. Y. Macaroni, spaghetti, and noodles. 274,554; Dec. 18. Class 46.
Diamalt-Aktien-Gesellschaft, Munich, Germany. Starch paste, glue, and vegetable glue. 271,924; Dec. 18. Class 5.
Diamond Crystal Sugar Co. Inc., New York, N. Y. Sugar. 271,538–9; Dec. 18. Class 46.
Diamond Match Company, The, Chicago, Ill. Matches. 275,261; Dec. 18. Class 9.
D'Orsay Perfumeries Corporation, New York, N. Y. Soaps. 274,555; Dec. 18. Class 4.
Dowling, Mark T., New York, N. Y. Nom de plume for newspaper and magazine articles. 273,491; Dec. 18. Class 38.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals. 273,584–8; Dec. 18. Class 6.
Eaton, Crane & Pike Company, Pittsfield, Mass. Memorandum pads and writing paper. 274,638; Dec. 18. Class 37.
Eddy's Steam Bakery, Inc., Helena, Great Falls, Missoula, Lewistown, and Butte, Mont. Cakes. 274,827; Dec. 18. Class 46.
Fair Play Caramels, Inc., Johnson City, N. Y. Candy. 247,609; Dec. 18. Class 46.
Feil, Sidney R., doing business as The Ivo-San Laboratory, Cleveland, Ohio. Medicinal vermifuge and conditioning preparations for livestock. 272,793; Dec. 18. Class 6.
Feldstein, Charles H., Company, Incorporated, Philadelphia, Pa. Haircloth. 274,913; Dec. 18. Class 42.
Fellows Medical Manufacturing Company, Inc., New York, N. Y. Preparation of hypophosphites. 273,493; Dec. 18. Class 6.
Fleischaker & Baum, New York, N. Y. Dolls. 274,713; Dec. 18. Class 22.
Forest Hills Company, doing business as Old Colony Brewing Co., Boston, Mass. Liquid malt extract for medicinal purposes. 274,152; Dec. 18. Class 6.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. 274,502; Dec. 18. Class 42.
Foster, F. A., & Co., Inc., New York, N. Y. Cretonne piece goods. 241,274; Dec. 18. Class 42.
French, R. T., Company, The, Rochester, N. Y. Herbs, juniper berries, senna, etc. 270,700; Dec. 18. Class 6.
Gabal Sales Corporation, New York, N. Y. Medicinal bitters. 271,068; Dec. 18. Class 6.
Gehe & Co. A. G., Dresden, Germany. Composition of calcium and magnesium. 272,153; Dec. 18. Class 6.
Gehe & Co. A.-G., Dresden, Germany. Preparation of ergot of rye. 272,154; Dec. 18. Class 6.
General Color Products Co., Chicago, Ill. Vitreous enamels. 269,453; Dec. 18. Class 16.
Gentile Bros. Company, Cincinnati, Ohio. Fresh citrus fruits, fresh deciduous fruits, etc. 273,867; Dec. 18. Class 46.
Gerber & Company, Incorporated, New York, N. Y. Cheese. 274,049; Dec. 18. Class 46.
Giorgetti, Carlo, doing business as Giorgetti Ravioli Factory, Oakland, Calif. Mushroom gravy, canned ravioli, etc. 273,593; Dec. 18. Class 46.
Givarz, Benjamin, doing business as The Santa Pack Co., Wynnefield, Philadelphia, Pa. Textile towels. 272,485; Dec. 18. Class 42.
Golden Glo Products Co. (See Mitchell, Cecelia M.)
Gor-Jus Hosiery Mills, Inc., The, now, by change of name, Gor-Jus Hosiery Co., Inc., Baltimore, Md. Hosiery. 270,105; Dec. 18. Class 39.
Gossard, H. W., Company, The, now, by change of name, Associated Apparel Industries, Inc., Chicago, Ill. Corsets, brassières, etc. 270,884; Dec. 18. Class 39.
Gray, Dorothy, Bloomfield, N. J. Toilet preparations. 272,148; Dec. 18. Class 6.
Gray, Thomas H., doing business as The National Electro Hydrothermal Corp., Fort Worth, Tex. Electric immersion water heaters. 263,941; Dec. 18. Class 21.
Guindon, William J., doing business as Consumers Chemical Company, Minneapolis, Minn. Syringes and rubber cots. 273,815; Dec. 18. Class 44.
Gyllenhammar, Oscar L., Gottenborg, Sweden. Oatmeal. 273,051; Dec. 18. Class 46.
Hall, Hartwell & Co. Inc., Troy, N. Y. Collars and shirts. 274,390; Dec. 18. Class 39.
Harary, Samuel, Brooklyn, N. Y. Chemicalized buckram. 265,213; Dec. 18. Class 50.
Hartman Furniture and Carpet Company, Chicago, Ill. Kitchen gas ranges. 273,653; Dec. 18. Class 34.
Hartmann Trunk Company, Racine, Wis. Wardrobe cases, suitcases, etc. 273,141; Dec. 18. Class 3.
Have a Heart Candy Co. (See Rose, William D.)
Hayden, Fred M., doing business as Hayden Products Company, Peoria, Ill. General household cleaning preparation. 273,655; Dec. 18. Class 4.
Hays Manufacturing Company, Erie, Pa. Flat way cocks, stopcocks, etc. 242,194; Dec. 18. Class 13.
Hecker-H-O Company, Inc., Buffalo, N. Y. Cereal food products. 274,829; Dec. 18. Class 46.
Herbert & Neuwirth Co. Inc., New York, N. Y. Chinaware and art pottery. 274,052; Dec. 18. Class 30.
Hess, Goldsmith & Co., Inc., New York, N. Y. Woven, knitted, or netted piece goods. 275,279; Dec. 18. Class 42.
Hillcrest Rabbitry Incorporated, Pasadena, Calif. Rabbits. 268,608; Dec. 18. Class 46.
Hills Brothers Company, The, New York, N. Y. Canned pimientos. 273,143; Dec. 18. Class 46.
Hind & Harrison Plush Co., The, New York, N. Y. Pile fabrics in the piece. 275,038; Dec. 18. Class 42.
Hirschberg, Henry, Inc., New York, N. Y. Women's and children's undergarments. 269,897; Dec. 18. Class 39.
Hitt Fireworks Co., Seattle, Wash. Fireworks. 274,267; Dec. 18. Class 9.
Hollingsworth & Vose Company, Boston, Mass. Paper in sheets or rolls. 275,039; Dec. 18. Class 37.
Holsten, Young & Co., New York, N. Y. Woolen piece goods. 273,600; Dec. 18. Class 42.
Home Incinerator Company, Milwaukee, Wis. Domestic garbage and refuse incinerators. 274,426; Dec. 18. Class 34.
Honolulu Fruit Co., Ltd., Honolulu, Hawaii. Canned pineapple. 269,524; Dec. 18. Class 46.
Hormel, Geo. A., & Company, Austin, Minn. Loin pork and luncheon meat. 269,239; Dec. 18. Class 46.
Horwitz, Vincent, Company Inc., New York, N. Y. Slippers. 273,146; Dec. 18. Class 39.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Pharmaceutical preparations. 274,328; Dec. 18. Class 6.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Twine and clothesalines. 275,042; Dec. 18. Class 7.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Matches. 275,043; Dec. 18. Class 9.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Linoleum and oiled cloth. 275,047; Dec. 18. Class 20.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Chinaware and crockery. 275,050; Dec. 18. Class 30.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Drinking glasses. 275,051; Dec. 18. Class 33.
Independent Grocers' Alliance Distributing Company, Chicago, Ill. Thread. 275,054; Dec. 18. Class 43.
Insuline Corp. of America, New York, N. Y. Automatic voltage controller. 273,496; Dec. 18. Class 21.
Iona Ventilator Company, Philadelphia, Pa. Intakes for ventilating systems. 274,454; Dec. 18. Class 34.
Isabey-Paris, Inc., New York, N. Y. Perfumes, toilet water, creams, etc. 272,942; Dec. 18. Class 6.
Ivo-San Laboratory, The. (See Feil, Sidney R.)
Jacobs, R., & Company, New York, N. Y. Tablecloths. 265,383; Dec. 18. Class 42.
Jacobs, W. E., Candy Co., Chicago, Ill. Candy. 272,814; Dec. 18. Class 46.
Jenny Wren Co., The, Lawrence, Kans. Corn meal. 273,970; Dec. 18. Class 46.
Kerfoot, Thomas, & Co., Limited, Bardsley, England. Inhalant. 271,091; Dec. 18. Class 6.
Kimble Glass Company, Vineland, N. J. Glass ampules. 274, 393; Dec. 18. Class 33.
Kittle, Levi O., doing business as Wavex Sales Company, Los Angeles, Calif. Finger-waving preparations. 268,736–7; Dec. 18. Class 6.
Knott, Wm. T., Company Inc., New York, N. Y. Sheets, pillowcases, and sheetings. 275,119; Dec. 18. Class 42.
Kochs, Theo. A., Company, Chicago, Ill. Liquid shampoo. 272,284; Dec. 18. Class 6.
Kolster Radio Corporation, Newark, N. J. Radio broadcast receiving apparatus, loud speakers, etc. 271,128; Dec. 18. Class 21.
Lahart, Thomas G., doing business as Lahart Coffee Company, Nashville, Tenn. Coffee. 274,781; Dec. 18. Class 46.
Larkin, Clifford, J., doing business as Larkin Specialty Co., Everett, Mass. Metal polish. 274,160; Dec. 18. Class 4.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Lebanon Shirt Company, Lebanon, Pa., and New York, N. Y. Men's shirts, men's, women's, and children's pajamas and underwear. 274,348; Dec. 18. Class 39.
Lentheric, Incorporated, New York, N. Y. Toilet preparations. 273,551; Dec. 18. Class 6.
Leschin, J., Co., The, New York, N. Y. Women's, misses', and children's hats. 272,763; Dec. 18. Class 39.
Lesmay. (See McFetridge, Mazie.)
Lewis-Mears Company, Boston, Mass. Dressed poultry and eggs. 274,161; Dec. 18. Class 46.
Lipso Company, The, Minneapolis, Minn. Ointment or salve. 271,396; Dec. 18. Class 6.
Loft, Inc., Long Island City, N. Y. Ice cream. 274,163; Dec. 18. Class 46.
Logan Co., Louisville, Ky. Adjustable screen-door grilles. 272,417; Dec. 18. Class 13.
Macfadden Publications, Inc., New York, N. Y. Magazine. 274,010–11; Dec. 18. Class 38.
Macfadden Publications, Inc., New York, N. Y. Magazine. 274,565; Dec. 18. Class 38.
Madame X Company, Inc. (See Thompson-Barlow Co., Inc., The, assignor.)
Mallinson, H. R., & Co. Inc., New York, N. Y. Silk piece goods. 274,466; Dec. 18. Class 42.
Manufacture Des Montres Niton S. A., Geneva, Switzerland. Watches and parts thereof. 273,604; Dec. 18. Class 27.
Manville Jenckes Company, Pawtucket, R. I. Bedspreads. 275,061; Dec. 18. Class 42.
McCue Laboratories, West Orange, N. J., and New York, N. Y. Laxatives. 274,469; Dec. 18. Class 6.
McFetridge, Mazie, doing business as Lesmay, Burlingame, Calif. Women's apparel. 273,058; Dec. 18. Class 39.
McIntosh, S. R., St. Petersburg, Fla. Clothing. 269,794; Dec. 18. Class 39.
McLaughlin, James G., Elmira, N. Y. Digestive tablets. 273,979; Dec. 18. Class 6.
McLoughlin Textile Corporation, Utica, N. Y. Men's rayon union suits, men's, women's, and childrens' rayon underwear, etc. 269,478; Dec. 18. Class 39.
Medina, J. A., Company, New York, N. Y. Green coffee. 268,296; Dec. 18. Class 46.
Mercer Hat Co., New York, N. Y. Ladies' and misses' hats. 273,197; Dec. 18. Class 39.
Merrimac Chemical Company, Boston, Mass. Paper plates. 273,199; Dec. 18. Class 2.
Meyer, Otto, Verdemont, Calif. Fresh grapes. 272,620; Dec. 18. Class 46.
Midland Chemical Laboratories, Inc., The, Dubuque, Iowa. Preparation of acids and other ingredients for the removal of rust and stains of marble, etc. 274,787; Dec. 18. Class 4.
Milem, J. A., Los Angeles, Calif. Antiseptic dressing. 273,711; Dec. 18. Class 6.
Miles, Lester H., Los Angeles, Calif. Reducing, bleaching, etc., creams. 272,998; Dec. 18. Class 6.
Millinery Stores, Inc., Chicago, Ill. Women's hats. 270,254; Dec. 18. Class 39.
Mitchell, Cecelia M., doing business as Golden Glo Products Co., Fort Worth, Tex. Mayonnaise salad dressing, sea food aid, etc. 263,965; Dec. 18. Class 46.
Moore, George, Ice Cream Co., Atlanta, Ga. Ice cream. 257,407; Dec. 18. Class 46.
Morris & Company, Incorporated, Baltimore, Md. Aprons and smocks. 273,928; Dec. 18. Class 39.
Motor Fuel Products Company, Laredo, Tex. Gasoline. 273,879; Dec. 18. Class 15.
Myers Tri-State Supply Company, doing business as Tri-State Battery Company, Joplin, Mo. Electric storage batteries. 266,551; Dec. 18. Class 21.
National Asvest-O-Phalt Corporation, Chicago, Ill. Ready-mixed paint. 274,790; Dec. 18. Class 16.
National Electro Hydrothermal Corp., The. (See Gray, Thomas H.)
Naturalite Signs, Inc., Detroit, Mich. Nonelectric signs. 270,859; Dec. 18. Class 50.
Nature's Herb Company, San Francisco, Calif. Laxative. 273,833; Dec. 18. Class 6.
Niagara Falls Milling Company, Niagara Falls and Buffalo, N. Y. Wheat flour. 271,975; Dec. 18. Class 46.
Nidol Co. (See del Valle, Carlos M., M. D.)
Norma Hosiery Shoppe, Inc., Washington, D. C. Hosiery. 274,399; Dec. 18. Class 39.
North Western Expanded Metal Co., Chicago, Ill. Sheet-metal laths. 238,992; Dec. 18. Class 12.
Nosun Awning Company. (See Swanfeldt, Andrew.)
Octonek Knitting Co. Inc., Seattle, Wash. Knitted goods. 267,205; Dec. 18. Class 39.
Oehme & Baier, Leipzig, Germany. Colors for confectionery. 265,801; Dec. 18. Class 6.
Old Colony Brewing Co. (See Forest Hills Company.)
Otten, Howard O., doing business as Puratone Products Company, St. Joseph, Mo. Stomachic tonic and system cleanser. 261,379; Dec. 18. Class 6.
Owens Manufacturing Co., Hoboken, N. J. Boxes. 273,931; Dec. 18. Class 2.
Parke, Davis & Co., Detroit, Mich. Hypnotics. 273,840; Dec. 18. Class 6.
Pascal, P., Inc., New York, N. Y. Coffee. 275,126; Dec. 18. Class 46.
Pasotex Petroleum Company, Wilmington, Del., and San Francisco, Calif. Gasoline, kerosene, etc. 273,157; Dec. 18. Class 15.
Phi Alpha, Washington, D. C. Fraternity badges, lapel buttons, etc. 267,993; Dec. 18. Class 28.
Phillips-Lewis Co., Inc., Richmond, Va. Canned vegetables, fruits, berries, crab meat, etc. 269,602; Dec. 18. Class 46.
Pilot Electric Manufacturing Co., Inc., The, Brooklyn, N. Y. Fixed and variable condensers. 239,197; Dec. 18. Class 21.
Pine Tree Products Company, Newport, N. H. Ointment. 270,094; Dec. 18. Class 6.
Piping Pan Company. (See Sanders, Hugh A.)
Pratt, Abraham, doing business as Public Dress Company, New York, N. Y. Dresses, frocks, skirts, coats, and waists. 274,067; Dec. 18. Class 39.
Public Dress Company. (See Pratt, Abraham.)
Puratone Products Company. (See Otten, Howard O.)
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor fuel oil, lubricating oils, etc. 271,997; Dec. 18. Class 15.
Reliable Tile Cleaning Service, New York, N. Y. Tile cleaner. 273,997; Dec. 18. Class 4.
Rheunesia Company, The. (See Associated Laboratories, Inc.)
Richfield Oil Company of California, Los Angeles, Calif. Lubricating oils. 263,517; Dec. 18. Class 15.
Rohm & Haas Company, Philadelphia, Pa. Finishes. 273,639; Dec. 18. Class 4.
Rose, William D., doing business as Have a Heart Candy Co., Portland, Oreg. Candy bars. 265,167; Dec. 18. Class 46.
Rosenbaum Company, The, Pittsburgh, Pa. Shoes. 268,059–60; Dec. 18. Class 39.
Rostetter, George A., doing business as The Rostetter Laboratories, Canton, Kans. Medicinal preparation. 270,724; Dec. 18. Class 6.
Sanders, Hugh A., doing business at Piping Pan Company, San Diego, Calif. Self-rising multiflour compound. 267,320; Dec. 18. Class 46.
Santa Pack Co., The. (See Givarz, Benjamin.)
Sawyer Tanning Company, The, Napa, Calif. Shoe upper leather, glove leather, and coat leather. 249,101; Dec. 18. Class 1.
Schumacher Bros. Distributing Co., Los Angeles, Calif. Fresh citrus fruits, deciduous fruits, etc. 274,939; Dec. 18. Class 46.
Semeraro, Carmelo, doing business as Carmelo Semeraro and Co., Brooklyn, N. Y. Liquid insecticide. 274,290; Dec. 18. Class 6.
Sereinsky, Louis R., doing business as Cinelin Company, Indianapolis, Ind. Cellulose-acetate plastics and pyroxylin plastics. 273,783; Dec. 18. Class 1.
Shellenberger, J. Frank, Company, doing business as Shellenberger's, Philadelphia, Pa. Candy. 274,800; Dec. 18. Class 46.
Shields & Wyle, Inc., Jersey City, N. J. Hand soap. 268,001; Dec. 18. Class 4.
Shields & Wyle, Inc., Jersey City, N. J. Cleanser. 272,356; Dec. 18. Class 4.
Siegel, Nathan, doing business as Williamsburg Knitting Mills, Brooklyn, N. Y. Undergarments. 272,960; Dec. 18. Class 39.
Siegel, Nathan, doing business as Williamsburg Knitting Mills, Brooklyn, N. Y. Fabrics in the piece. 272,961; Dec. 18. Class 42.
Skinner & Kennedy Stationery Company, St. Louis, Mo. Lead pencils. 274,405; Dec. 18. Class 37.
Slite-O-Hand Manufacturing Company, Detroit, Mich. Soap. 274,802; Dec. 18. Class 4.
Soap Distributing Company, Inc., Pittsburgh, Pa. Soap. 274,577; Dec. 18. Class 4.
Southern Dairies, Inc., Washington, D. C. Bodies of ice cream. 273,845; Dec. 18. Class 46.
Spartan Aircraft Company, Tulsa, Okla. Airplanes and airplane structural parts. 273,520–2; Dec. 18. Class 19.
Squibb, E. R., & Sons, New York, N. Y. Preparation useful in the treatment of conditions which require hemoglobin production. 273,074; Dec. 18. Class 6.
Squill Manufacturing Co. (See Amster, Joseph.)
Stanco Incorporated, New York, N. Y. Nose and throat spray. 273,524; Dec. 18. Class 6.
Stein, S., & Co., New York, N. Y. Woolen goods. 274,409; Dec. 18. Class 42.
Stern Brothers, New York, N. Y. Vanity cases. 272,232; Dec. 18. Class 6.
Stroud, Harold D., Detroit, Mich. Liquid fuel for portable and pocket cigar, cigarette, and pipe lighters. 274,411; Dec. 18. Class 6.
Stutz Motor Car Company of America, Inc., Indianapolis, Ind. Automobiles. 272,187; Dec. 18. Class 19.
Sutter Packing Company, Mayfield, Calif. Canned fruits and vegetables. 270,152; Dec. 18. Class 46.
Sutter Packing Company, Mayfield, Calif. Canned fruits. 270,153; Dec. 18. Class 46.
Swanfeldt, Andrew, doing business as Nosun Awning Company, Los Angeles, Calif. Cotton fabrics. 266,839; Dec. 18. Class 42.



PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Tea Garden Products Co., San Francisco, Calif. Table syrup. 269,810; Dec. 18. Class 46.
Tercal Company. (See Calkins, Clifford H.)
Thompson-Barlow Company, Inc., The, New York, N. Y. Hosiery, girdle vests, and garters. 204,843; Dec. 18. Class 39.
Thompson-Barlow Company, Inc., The, New York, N. Y. Corsets, brassières, girdles, and girdle vests. 205,667; Dec. 18. Class 39.
Thompson-Barlow Co., Inc., The, assignor to Madame X Company, Inc., New York, N. Y. Corsets and brassières. 195,466; Dec. 18. Class 39.
Thompson-Barlow Company, Inc., assignor to Madame X Company, Inc., New York, N. Y. Girdles and corsets. 200,410–11; Dec. 18. Class 39.
Trinka, Zena I., doing business as Z. I. Trinka Co., Lidgerwood, N. Dak. Salves. 266,768; Dec. 18. Class 6.
Tri-State Supply Company. (See Myers Tri-State Supply Company.)
Tropic Products Co. (See Walker, Janet M.)
Union Produce Co., Guadalupe, Calif. Fresh vegetables. 271,579; Dec. 18. Class 46.
United Oil Company, Pittsburgh, Pa. Lubricating oils and greases. 273,948; Dec. 18. Class 15.
Valentine Laboratories, Inc. (See Walgreen Co.)
Vargo, Peter, Cleveland, Ohio. Polish. 270,618; Dec. 18. Class 16.
Vince Laboratories, Yonkers, N. Y. Mouth wash. 262,004; Dec. 18. Class 6.
Visuola Corporation, New York N. Y. Devices for teaching pupils to play musical instruments. 242,258; Dec. 18. Class 36.
Vogelgesang, Theodore J., Salamanca, N. Y. Liniment. 272,784; Dec. 18. Class 6.
Walgreen Co., doing business as Valentine Laboratories, Inc., Chicago, Ill. Medicinal tonic. 273,730; Dec. 18. Class 6.
Walker, Janet M., doing business as Tropic Products Co., Luzon, P. I. Food products and food ingredients. 255,326; Dec. 18. Class 46.
Washington Jewelry Company, Boston, Mass. Watches. 273 677; Dec. 18. Class 27.
Watkins, J. R., Company, The, Winona, Minn. Cocoa, shredded cocoanut, etc. 274,024; Dec. 18. Class 46.
Wavex Sales Company. (See Kittle, Levi O.)
Waynesboro Knitting Company, Waynesboro, Pa. Underwear. 274,415; Dec. 18. Class 39.
Wickham Brothers, Scranton, Pa. Vegetable relish. 274,422; Dec. 18. Class 46.
Wickham Brothers, Scranton, Pa. Mustard sauce. 274,423; Dec. 18. Class 46.
Williamsburg Knitting Mills. (See Siegel, Nathan.)
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs and golf balls. 274,028; Dec. 18. Class 22.
Yale & Towne Mfg. Co., The, Stamford, Conn. Locks and parts thereof, keys, and key blanks. 274,688; Dec. 18. Class 25.
Ziff Brothers, Inc., Chicago, Ill. Malt extract. 265,713; Dec. 18. Class 46.
Zulu Toy Manufacturing Company, Inc., Battle Creek, Mich. Tiddledywinks game. 274,750; Dec. 18. Class 22.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 2.

Bags or wrappers for shoes and the like. E. M. Boyes. 251,001; Dec. 18.
Bottles, Paper. Sealed Containers Corporation. 250,949; Dec. 18; Serial No. 270,305; published Oct. 9, 1928.
Containers. Le-Mul Mfg. Co. 250,864; Dec. 18; Serial No. 262,720; published Oct. 9, 1928.
Containers, Portable. C. D. Kelley. 250,998; Dec. 18.

## CLASS 3.

Harness. Milwaukee Saddlery Company. 250,868; Dec. 18; Serial No. 262,233; published Sept. 25, 1928.
Hatboxes. White Luggage Co. 250,981; Dec. 18; Serial No. 268,524; published Sept. 25, 1928.

## CLASS 4.

Cleaner and polish of glass and glassware. H. W. Hoffheimer. 250,747; Dec. 18; Serial No. 271,303; published Oct. 2, 1928.
Cleaner, Wall-paper. Jauszen Company. 250,919; Dec. 18; Serial No. 266,593; published Oct. 2, 1928.
Cleanser, scouring powder, steel wool, and soap, Aluminum. I. Rokeach & Sons, Inc. 250,918; Dec. 18; Serial No. 266,619; published Oct. 9, 1928.
Dressing, Automobile top. J. E. McGuire. 250,885; Dec. 18; Serial No. 270,999; published Oct. 9, 1928.
Dressing, Belt. Trust Oil Company. 250,959; Dec. 18; Serial No. 269,998; published Oct. 9, 1928.
Dressing, Brake. Ezon Manufacturing Co. 250,907; Dec. 18; Serial No. 269,282; published Sept. 25, 1928.
Dressing, Shoe and leather. N. E. Baker. 250,900; Dec. 18; Serial No. 269,571; published Oct. 9, 1928.
Emulsions, Leather-treating. P. D. Ludy. 250,854; Dec. 18; Serial No. 264,315; published Oct. 2, 1928.
Metal polish. E. Blanchard. 250,941; Dec. 18; Serial No. 270,459; published Oct. 2, 1928.
Polish and top dressing, Metal. C. W. Lee. 250,969; Dec. 18; Serial No. 270,709; published Sept. 25, 1928.
Soap. S. Cummins. 250,727; Dec. 18; Serial No. 243,644; published Oct. 9, 1928.
Soap and shaving cream, Olive-oil. Piomar Products Corp. 250,911; Dec. 18; Serial No. 267,718; published Oct. 9, 1928.
Soap and soap powder. Lever Brothers Company. 71,026; renewed Oct. 27, 1928.
Soap, Castile. Windsor Soap Co. 250,870; Dec. 18; Serial No. 262,010; published Sept. 25, 1928.
Soap cream, Shaving. William A. Webster Company. 250,991; Dec. 18; Serial No. 268,011; published Oct. 2, 1928.
Soap powder. H. Kohnstamm & Co. 250,988; Dec. 18; Serial No. 268,162; published Oct. 2, 1928.
Soap with detergent properties. E. Rauhn. 250,855; Dec. 18; Serial No. 264,199; published Sept. 25, 1928.
Soaps. Aix-Olein Co. 250,982; Dec. 18; Serial No. 268,477; published Oct. 9, 1928.
Soaps, shaving cream and soap, etc. American Products Company. 250,755; Dec. 18; Serial No. 252,635; published Sept. 25, 1928.
Solvents, Hydrocarbon. Standard Oil Company of New Jersey. 250,866; Dec. 18; Serial No. 262,419; published Oct. 2, 1928.

## CLASS 5.

Sealing compound. W. R. Thurston. 250,917; Dec. 18; Serial No. 266,841; published Oct. 2, 1928.

## CLASS 6.

Cod-liver oil for mixing with chicken and cattle feed. Martin Dennis Company. 250,976; Dec. 18; Serial No. 268,619; published Oct. 9, 1928.
Deodorant, Body. Odor-Nox Chemical Co. 250,952; Dec. 18; Serial No. 270,142; published Oct. 9, 1928.
Deodorant powder. Odorono Company. 250,961; Dec. 18; Serial No. 269,977; published Oct. 9, 1928.
Depilatory. Odorono Company. 250,960; Dec. 18; Serial No. 269,978; published Oct. 9, 1928.
Eau de Cologne, bath salt, perfumery, etc. Naamlooze Vennootschap International Perfumery Company. 250,813; Dec. 18; Serial No. 268,380; published Oct. 9, 1928.
Hair-combing liquid. Edward Wesley & Company. 250,921; Dec. 18; Serial No. 266,501; published Oct. 9, 1928.
Hardening materials, Case-. American Cyanamid Company. 250,739–40; Dec. 18; Serial Nos. 271,159–60; published Oct. 9, 1928.
Herb-root composition. Collins Medicine Company. 250,983; Dec. 18; Serial No. 268,426; published Oct. 9, 1928.
Insecticide and fungicide. M. Spiegel. 250,940; Dec. 18; Serial No. 270,521; published Oct. 9, 1928.
Medicine. R. Conn. 250,972; Dec. 18; Serial No. 270,668; published Oct. 9, 1928.
Medicine. S. I. Hollinger. 250,858; Dec. 18; Serial No. 263,824; published Aug. 28, 1928.
Modifier, Debuffering milk. Upjohn Company. 250,750; Dec. 18; Serial No. 271,516; publishsd Oct. 9, 1928.
Powder, Deodorant. Charles Aguirre. 250,985; Dec. 18; Serial No. 268,259; published Sept. 11, 1928.
Preparation, Liquid. Coty, Inc. 250,742; Dec. 18; Serial No. 271,168; published Oct. 9, 1928.
Preparation, Manicure. Houbigant, Inc. 250,915; Dec. 18; Serial No. 267,256; published Oct. 9, 1928.
Preparation used in exterminating Canadian thistle, etc. W. A. McIntyre. 250,932; Dec. 18; Serial No. 269,130; published Oct. 2, 1928.
Remedy for the treatment of corns and callouses. Nokal Co. 250,738; Dec. 18; Serial No. 271,141; published Oct. 9, 1928.
Salts, Bath. Storfer Laboratories Inc. 250,763; Dec. 18; Serial No. 244,416; published June 7, 1927.
Salve, Eye. J. Kahabka. 250,860; Dec. 18; Serial No. 263,475; published Aug. 14, 1928.
Sodium antimonate, thermalin, and tin oxide. Metal & Thermit Corporation. 250,743; Dec. 18; Serial No. 271,192; published Oct. 9, 1928.
Sterilizers, deodorizers, disinfectants, etc. M. H. Auerbach. 250,741; Dec. 18; Serial No. 271,162; published Oct. 9, 1928.

Tonic for the hair, Liquid. Lanman & Kemp, Inc. 250,966; Dec. 18; Serial No. 269,848; published Oct. 9, 1928.
Tooth paste or dentifrice. L. O. Brightfield. 250,783; Dec. 18; Serial No. 256,807; published Oct. 9, 1928.

CLASS 9.

Gun sights. T. A. Watson. 250,993; Dec. 18.

CLASS 11.

Carbon paper. De-Fi Manufacturing Company. 73,511; renewed Apr. 27, 1929.

CLASS 13.

Soap holders, tumbler holders, grab rails, paper holders, etc. Trumbull Electric Manufacturing Company. 250,758; Dec. 18; Serial No. 224,308; published Mar. 23, 1926.

CLASS 14.

Castings, Metal. Calumet Foundry & Machine Company. 250,899; Dec. 18; Serial No. 269,633; published Oct. 9, 1928.
Metal, Coating and soldering. American Machine & Foundry Company. 250,782; Dec. 18; Serial No. 256,654; published Dec. 20, 1927.
Steel. Edgar Allen & Co. Limited. 250,882; Dec. 18; Serial No. 271,023; published Sept. 25, 1928.

CLASS 15.

Gasoline. Vickers Petroleum Company. 250,849; Dec. 18; Serial No. 269,213; published Oct. 9, 1928.
Gasoline and motor-fuel oils. Humble Oil & Refining Company. 250,838–9; Dec. 18; Serial Nos. 269,785–6; published Oct. 9, 1928.
Gasoline, kerosene, lubricating oil, etc. Gilmore Oil Company. 250,933; Dec. 18; Serial No. 269,113; published Sept. 25, 1928.
Gasoline, lubricating and fuel oils, and lubricating greases. C. Studna. 250,761; Dec. 18; Serial No. 237,707; published Nov. 15, 1927.
Gasoline, lubricating oils, and lubricating greases. Sherwood Bros. Inc. 250,799; Dec. 18; Serial No. 265,860; published Oct. 9, 1928.
Oil, Lubricating. Richfield Oil Company of California. 250,859; Dec. 18; Serial No. 263,515; published June 26, 1928.
Oil, Lubricating. H. J. Siemer. 250,805; Dec. 18; Serial No. 268,116; published Oct. 9, 1928.
Oil, Penetrating. Perfecto Manufacturing Co. 250,845; Dec. 18; Serial No. 269,000; published Oct. 9, 1928.
Oils and lubricants. Pennsylvania Petroleum Products Co. 251,000; Dec. 18.
Oils, fuel oils, lubricating oils, etc., Illuminating. Grayburg Oil Company. 250,817; Dec. 18; Serial No. 271,044; published Oct. 9, 1928.
Oils, Lubricating. J. W. Kane. 250,833; Dec. 18; Serial No. 270,084; published Oct. 9, 1928.
Oils, waxes, and greases, Lubricating. Union Oil Company of California. 250,806; Dec. 18; Serial No. 268,717; published Sept. 25, 1928.
Oils, waxes, and greases, Lubricating. Union Oil Company of California. 250,807; Dec. 18; Serial No. 268,719; published Sept. 25, 1928.
Oils, waxes, and greases. Union Oil Company of California. 250,974; Dec. 18; Serial No. 268,713; published Sept. 25, 1928.
Petroleum products. Richfield Oil Company of California. 250,852; Dec. 18; Serial No. 269,550; published Oct. 9, 1928.

CLASS 16.

Bronze powder. Sheffield Bronze Powder Co. 250,749; Dec. 18; Serial No. 271,457; published Oct. 9, 1928.
Cleaning preparation. Newnamel Inc. 250,909; Dec. 18; Serial No. 269,199; published Oct. 9, 1928.
Colors and artists' paints, Artists'. F. Behrendt. 250,789; Dec. 18; Serial No. 260,207; published May 15, 1928.
Glaze, Aluminum. Sapolin Co. Inc. 250,923; Dec. 18; Serial No. 265,577; published Oct. 9, 1928.
Glaze, Gold. Sapolin Co. Inc. 250,924; Dec. 18; Serial No. 265,576; published Oct. 9, 1928.
Lacquers, enamels, varnishes, and mixed paints. Devoe & Raynolds Co. 250,886; Dec. 18; Serial No. 270,958; published Oct. 9, 1928.
Lacquers, paint enamels, varnishes, and mixed paints. Devoe & Raynolds Co. 250,887; Dec. 18; Serial No. 270,957; published Oct. 9, 1928.
Paints. General Rub-Ros Company. 250,970; Dec. 18; Serial No. 270,701; published Oct. 9, 1928.
Paints, lacquers, varnish, etc. Paint Engineers, Inc. 250,926; Dec. 18; Serial No. 265,399; published Oct. 9, 1928.
Varnish and paint enamels. Elliott Varnish Co. 250,880; Dec. 18; Serial No. 270,740; published Oct. 9, 1928.
Varnishes, varnish stains, and paint enamels. Elliott Varnish Co. 250,879; Dec. 18; Serial No. 270,741; published Oct. 9, 1928.
Varnishes, varnish stains, and paint enamels. Republic Paint & Varnish Works. 250,786; Dec. 18; Serial No. 258,494; published Oct. 9, 1928.

CLASS 17.

Cigars. S. S. Pierce Co. 32,739; renewed Apr. 18, 1929.
Tobacco, Smoking. G. S. Mahn. 71,941; renewed Dec. 22, 1928.

CLASS 19.

Batteries and battery parts. Lyon Battery Works. 250,830; Dec. 18; Serial No. 270,970; published Oct. 9, 1928.
Batteries and parts thereof, Electric storage. Reliable Storage Battery & Plates Mfg. Co. 250,811; Dec. 18; Serial No. 271,199; published Oct. 9, 1928.
Battery chargers. Johnson Motor Products Co. Inc. 250,842; Dec. 18; Serial No. 240,915; published Oct. 9, 1928.
Connectors, sockets, etc., Electric. Henry D-Oller, jr. 250,856; Dec. 18; Serial No. 264,026; published Sept. 25, 1928.
Electric domestic appliances. Edison Electric Appliance Company. 250,756; Dec. 18; Serial No. 251,658; published Sept. 25, 1928.
Electrical condensers of constant capacity and devices. Dubilier Condenser Corporation. 250,728–9; Dec. 18; Serial Nos. 240,070–1; published July 3, 1928.
Flash lights. Blake Manufacturing Co. 250,797; Dec. 18; Serial No. 262,645; published Oct. 9, 1928.
Heater and dryer, vacuum cleaners, etc., Electrical combined. Electare Company. 250,848; Dec. 18; Serial No. 269,281; published Oct. 9, 1928.
Irons, electric cigar lighters, etc., Electric curling. Beardsley & Wolcott Mfg. Co. 250,802; Dec. 18; Serial No. 267,291; published Oct. 9, 1928.
Lanterns, flash lights, candles, etc., Electric. Yale Electric Corporation. 250,832; Dec. 18; Serial No. 270,564; published Oct. 9, 1928.
Pressers, Electric neckwear. Hare Mfg. Co. 250,937; Dec. 18; Serial No. 270,590; published Sept. 25, 1928.
Radio receiving sets. Premier Grand Piano Corporation. 250,853; Dec. 18; Serial N. 209,429; published Oct. 9, 1928.
Radioantenna. Gustin-Bacon Manufacturing Company. 250,847; Dec. 18; Serial No. 269,116; published Oct. 9, 1928.
Radiocondensers and electron tubes and battery-charging rectifiers. Stewart Battery Co. 250,873; Dec. 18; Serial No. 261,153; published Sept. 25, 1928.
Reflectors for motor vehicles, Safety rear-end. Hunt & Moore, Inc. 250,925; Dec. 18; Serial No. 265,435; published Oct. 9, 1928.
Sadiron, Electric. J. B. Kovar. 250,8656; Dec. 18; Serial No. 262,613; published Sept. 25, 1928.
Tubes, Electron. Champion Radio Works, Inc. 250,850; Dec. 18; Serial No. 269,462; published Oct. 9, 1928.
Wheels, bushings, etc., Self-oiling trolley. Moccasin Bushing Company. 250,831; Dec. 18; Serial No. 270,776; published Oct. 9, 1928.

CLASS 22.

Games, Card. C. H. Perry. 250,757; Dec. 18; Serial No. 228,558; published May 4, 1926.
Skates, Roller. A. G. Spalding & Bros. 250,935; Dec. 18; Serial No. 269,611; published Oct. 9, 1928.
Toys, Certain rubber. Hannoversche Gummi-Kamm-Compagnie Aktiengesellschaft. 71,050; renewed Oct. 27, 1928.

CLASS 23.

Concrete mixers. Chain Belt Company. 250,808; Dec. 18; Serial No. 271,739; published Oct. 9, 1928.
Sweepers, Carpet. Bissell Carpet Sweeper Co. 72,762; renewed Feb. 16, 1929.
Sweepers, Carpet. Bissell Carpet Sweeper Co. 73,421; renewed Apr. 20, 1929.

CLASS 27.

Clocks. I. J. Shapiro. 250,963; Dec. 18; Serial No. 269,920; published Sept. 25, 1928.
Watchcases. H. Schlacht. 250,779; Dec. 18; Serial No. 268,940; published Sept. 25, 1928.
Watches. Gruen Watch Company. 250,989; Dec. 18; Serial No. 268,095; published Sept. 25, 1928.
Watches and clocks. Charles M. Levy & Son. 250,787; Dec. 18; Serial No. 258,639; published Jan. 31, 1928.

CLASS 28.

Bracelets, brooches, bar pins, etc. Fulmer & Gibbons. 250,844; Dec. 18; Serial No. 260,053; published Oct. 9, 1928.
Chains, lorgnetic chains, finger rings, etc., Watch. Taylor & Co. 250,835; Dec. 18; Serial No. 269,995; published Oct. 9, 1928.
Gold and silver plated novelties. Weidlich Bros. Mf'g. Co. 250,948; Dec. 18; Serial No. 270,308; published Sept. 25, 1928.



Pearls, necklaces, bracelets, etc. Cohn & Rosenberger, Inc. 250,946; Dec. 18; Serial No. 270,370; published Sept. 25, 1928.
Pins, brooches, etc., Ornamental. Colonial Bead Co. Inc. 250,896; Dec. 18; Serial No. 269,719; published Sept. 25, 1928.
Rings, Finger. M. Richards. 250,901; Dec. 18; Serial No. 269,483; published Sept. 25, 1928.
Rings, ornamental pins, pendants, etc., Finger. B. Leader. 250,840; Dec. 18; Serial No. 269,667; published Oct. 9, 1928.
Tableware, silver flatware, etc., Silver. Saks & Co. 250,908; Dec. 18; Serial No. 269,208; published Sept. 18, 1928.
Watch bracelets. Gemex Company. 250,818; Dec. 18; Serial No. 271,043; published Oct. 9, 1928.
Watch bracelets. Gemex Company. 250,819–25; Dec. 18; Serial Nos. 271,033–9; published Oct. 9, 1928.
Watch bracelets. Gemex Company. 250,826–8; Dec. 18; Serial Nos. 271,029–31; published Oct. 9, 1928.

CLASS 29.

Brushes. Whiting-Adams Company. 250,944; Dec. 18; Serial No. 270,405; published Oct. 9, 1928.
Cleaners, Applicators for eyeglass. Hanford Chemical Company. 250,920; Dec. 18; Serial No. 266,535; published Oct. 9, 1928.

CLASS 31.

Refrigerators, beverage coolers, and ice-cream freezers. Citogel Gesellschaft für Chemische und Technische Erzeugnisse m. b. H. 250,869; Dec. 18; Serial No. 262,152; published Oct. 2, 1928.

CLASS 33.

Crystals, Watch. Germanow-Simon Machine Co. 250,939; Dec. 18; Serial No. 270,545; published Oct. 9, 1928.

CLASS 34.

Humidifiers. A. W. Thompson. 73,144; renewed Mar. 16, 1929.
Shades, Cellulose-acetate, metal, fabric, and parchment lamp. Apt Novelty Co. 250,954; Dec. 18; Serial No. 270,067; published Oct. 9, 1928.
Stoves, ranges, and furnaces. White-Warner Co. 73,431; renewed Apr. 20, 1929.
Ventilators, Wind-actuated roof. W. F. Hirschman Co. 250,995; Dec. 18.

CLASS 36.

Guitars and mandolins. Rudolph Wurlitzer Company. 73,601; renewed May 4, 1929.
Musical instruments and parts thereof, Woodwind, brass, and reed. Carl Fischer Inc. 250,862; Dec. 18; Serial No. 263,312; published Sept. 25, 1928.

CLASS 37.

Books, Tubularized blank. Schaefer-Johnston Co. 250,794; Dec. 18; Serial No. 261,913; published Sept. 25, 1928.
Forms, Manifold. Reynolds & Reynolds Company. 250,810; Dec. 18; Serial No. 271,360; published Oct. 9, 1928.
Letterheads. Hunton & Hoxie Co. 250,834; Dec. 18; Serial No. 270,027; published Sept. 25, 1928.
Paper. Ditto, Incorporated. 250,843; Dec. 18; Serial No. 254,269; published Sept. 25, 1928.
Paper, Stencil. Fort Pitt Typewriter Company. 250,809; Dec. 18; Serial No. 271,380; published Oct. 9, 1928.
Paper, Toilet. Albany Perforated Wrapping Paper Company. 250,814–16; Dec. 18; Serial Nos. 271,103–5; published Oct. 2, 1928.
Paper, Toilet. Capital Paper Company. 250,801; Dec. 18; Serial No. 266,711; published Sept. 25, 1928.
Paper, Writing. Esleeck Manufacturing Co. 73,561; renewed Apr. 27, 1929.
Papers. Crown Willamette Paper Company. 250,760; Dec. 18; Serial No. 235,253; published Aug. 28, 1928.
Stationery. Chryson's, Inc. 250,846; Dec. 18; Serial No. 269,087; published Sept. 25, 1928.
Stationery. J. C. Penney Company. 250,795; Dec. 18; Serial No. 261,928; published Sept. 25, 1928.
Stencils and paper therefor. Halowax Corporation. 250,836; Dec. 18; Serial No. 269,843; published Sept. 25, 1928.
Stencils, Dry. Theta Dry Stencil Corporation. 250,803; Dec. 18; Serial No. 267,519; published Oct. 9, 1928.

CLASS 38.

Booklets. Standard Accident Insurance Company. 250,769; Dec. 18; Serial No. 271,664; published Oct. 9, 1928.
Bulletins and literature, Educational. Rail Steel Bar Association. 250,904; Dec. 18; Serial No. 269,426; published Oct. 2, 1928.
Cards, wedding invitations, etc., Greeting. Chryson's Inc. 250,771; Dec. 18; Serial No. 271,682; published Oct. 9, 1928.
Magazine. McGraw-Shaw Company. 250,867; Dec. 18; Serial No. 262,369; published Sept. 25, 1928.
Magazine. St. Meinrad Abbey. 250,752; Dec. 18; Serial No. 271,633; published Oct. 9, 1928.
Magazine articles. Fairchild Company. 250,766; Dec. 18; Serial No. 254,075; published Sept. 25, 1928.
Magazines. Popular Aviation Publishing Company. 250,751; Dec. 18; Serial No. 271,566; published Oct. 9, 1928.
Periodical. American Eagle Publishing Co. 250,984; Dec. 18; Serial No. 268,263; published Oct. 9, 1928.
Periodical. J. Dubin. 250,740; Dec. 18; Serial No. 271,298; published Sept. 25, 1928.
Periodical. News Messenger Publishing Co. 250,889; Dec. 18; Serial No. 270,936; published Sept. 25, 1928.
Periodical. Registrar and Transfer Company. 250,748; Dec. 18; Serial No. 271,315; published Sept. 25, 1928.
Periodical. H. J. Shield. 250,881; Dec. 18; Serial No. 270,728; published Sept. 25, 1928.
Periodical. United Publishing Company. 250,888; Dec. 18; Serial No. 270,946; published Sept. 25, 1928.
Printed books, booklets, sheets, etc. J. E. Bolling. 250,931; Dec. 18; Serial No. 269,179; published Oct. 2, 1928.
Publication. Western Stories Publishing Corp. 250,770; Dec. 18; Serial No. 271,672; published Oct. 9, 1928.
Publications. Crime Club, Inc. 250,857; Dec. 18; Serial No. 263,930; published Sept. 25, 1928.
Title for a comic strip. Press Publishing Company. 250,793; Dec. 18; Serial No. 271,820; published Oct. 9, 1928.

CLASS 39.

Apparel, Wearing. Joshua Hoyle & Sons, Ltd. Inc. 250,999; Dec. 18.
Bandeaux, brassières, girdles, and corsets. Lewel Mfg. Co. Inc. 250,768; Dec. 18; Serial No. 260,896; published Sept. 25, 1928.
Boots and shoes. French, Shriner & Urner. 250,872; Dec. 18; Serial No. 261,561; published Sept. 18, 1928.
Boots and shoes. Edwin Clapp & Son, Inc. 250,732; Dec. 18; Serial No. 271,024; published Oct. 2, 1928.
Boots and shoes. General Footwear Corporation. 250,897; Dec. 18; Serial No. 269,653; published Oct. 2, 1928.
Boots and shoes. Jellerson-Rafter Company. 250,734; Dec. 18; Serial No. 271,050; published Sept. 25, 1928.
Boots and shoes. M. A. Packard Company. 250,979; Dec. 18; Serial No. 268,558; published Sept. 25, 1928.
Boots and shoes. Selby Shoe Co. 250,956; Dec. 18; Serial No. 270,052; published Sept. 18, 1928.
Boots and shoes for women, Leather. A. Garsdle & Sons. 251,014; Dec. 18.
Boots, shoes, and slippers. Huth & James Shoe Manufacturing Company. 250,957; Dec. 18; Serial No. 270,028; published Sept. 18, 1928.
Boots, shoes, and slippers. E. F. Martin. 250,980; Dec. 18; Serial No. 268,553; published Sept. 25, 1928.
Boots, shoes, and slippers. W. H. Tomlinson & Co. 251,018; Dec. 18.
Boots, slippers, and shoes. J. B. Henry. 250,905; Dec. 18; Serial No. 269,349; published Oct. 2, 1928.
Brassières and girdles, brassières and corsets, etc., Combinations of. American Lady Corset Co. 250,990; Dec. 18; Serial No. 268,017; published Oct. 2, 1928.
Caps. M. Dorf. 250,986; Dec. 18; Serial No. 268,216; published Sept. 18, 1928.
Caps, hats, shoes, slippers, etc. Stern Brothers. 250,977–8; Dec. 18; Serial Nos. 268,567–8; published Sept. 25, 1928.
Coats and dresses. Syndicate Trading Company. 251,002; Dec. 18.
Coats, cloth coats, dresses, and hats, Ladies'. Advance Cloak Company. 250,996; Dec. 18.
Corsets, brassières, underwear, etc. Blair Corset Co. Inc. 251,009; Dec. 18.
Corsets, corselets, girdles, etc. Evrard & Fichet. 250,791; Dec. 18; Serial No. 260,560; published Sept. 25, 1928.
Corsets, corset combinations, underwear, etc. H. W. Gossard Co. 251,006–8; Dec. 18.
Dresses. Gimbel Brothers, Inc. 251,019; Dec. 18.
Dresses, corsets, sports suits, etc. Franklin Simon & Co. Inc. 251,003; Dec. 18.
Dresses, skirts for outer wear, panties, etc. Louis J. Mallas, Inc. 250,777; Dec. 18; Serial No. 268,874; published Sept. 18, 1928.
Felt bodies for ladies' hats. Tuxedo Hat Body Corporation. 250,785; Dec. 18; Serial No. 258,365; published Oct. 2, 1928.
Gloves. C. C. Carr. 250,930; Dec. 18; Serial No. 269,182; published Sept. 25, 1928.
Gloves. A. L. Cook. 250,975; Dec. 18; Serial No. 268,681; published Sept. 25, 1928.
Gloves and mittens. Boss Manufacturing Company. 250,922; Dec. 18; Serial No. 266,352; published Sept. 25, 1928.
Hats. T. G. Cook. 250,790; Dec. 18; Serial No. 260,426; published Sept. 25, 1928.
Hats and caps. Etchison Hat Co. 250,912; Dec. 18; Serial No. 267,543; published Sept. 25, 1928.
Hats, Children's. Fine and Levy, Inc. 250,943; Dec. 18; Serial No. 270,416; published Sept. 18, 1928.
Hats, children's and misses' hats and tams. Ladies'. Missy Hat Co. 250,878; Dec. 18; Serial No. 270,775; published Sept. 18, 1928.
Hats, Ladies' and misses'. Schneider Bros. Millinery Co. 250,784; Dec. 18; Serial No. 258,100; published Sept. 18, 1928.

Hats, Straw, Panama, and felt. New England Panama Hat Co. 250,936; Dec. 18; Serial No. 270,602; published Sept. 18, 1928.
Hats, Women's. Leschin Millinery Co. 250,730–1; Dec. 18; Serial Nos. 239,529–30; published Oct. 2, 1928.
Hosiery, gloves, jackets, etc. F. Entress. 250,863; Dec. 18; Serial No. 263,209; published Sept. 18, 1928.
Shoes. Badagliacca Inc. 250,973; Dec. 18; Serial No. 270,662; published Sept. 18, 1928.
Shoes. H. Childs & Co. Inc. 251,005; Dec. 18.
Shoes. Elco Shoe Manufacturers. 250,780; Dec. 18; Serial No. 268,975; published Sept. 18, 1928.
Shoes. Emerson Shoe Manufacturing Company. 250,950; Dec. 18; Serial No. 270,241; published Sept. 18, 1928.
Shoes. Municipal Shoe Co. 250,910; Dec. 18; Serial No. 269,197; published Sept. 25, 1928.
Shoes. Oppenheim, Collins & Co. Inc. 251,016; Dec. 18.
Shoes. J. K. Orr Shoe Company. 250,906; Dec. 18; Serial No. 269,311; published Oct. 2, 1928.
Shoes. Stern Brothers. 251,022; Dec. 18.
Shoes, Children's. Acme Shoe Manufacturing Company. 250,903; Dec. 18; Serial No. 269,440; published Sept. 25, 1928.
Shoes, Leather. Durand Shoe Co. 250 898; Dec. 18; Serial No. 269,646; published Sept. 25, 1928.
Soles and heels. Goodyear Tire & Rubber Company. 251,017; Dec. 18.
Suits and overcoats Men's. A. Rosenzweig. 251,004; Dec. 18.
Trousers, knickers, breeches, etc. L. Rosenstock. 250,994; Dec. 18.
Vestments. Edward J. Koenig Company. 251,020; Dec. 18.

CLASS 40.

Combs made of celluloid, and hair pieces, Hair. J. Oppenheim. 250,788; Dec. 18; Serial No. 259,690; published Sept. 18, 1928.
Devices not made of precious metal for attaching and supporting shoe buckles. Primrose Novelty Corporation. 250,759; Dec. 18; Serial No. 234,677; published Sept 18, 1928.
Hairpins. Hump Hairpin Mfg. Co. 251,011–3; Dec. 18.
Shields, Dress. C. E. Conover Company. 250,927; Dec. 18; Serial No. 264,810; published Oct. 2, 1928.

CLASS 42.

Carpets and rugs. Breslin-Griffitt Carpet Company. 250,874–5; Dec. 18; Serial Nos. 270,824–5; published Oct. 9, 1928.
Carpets and rugs. Breslin-Griffitt Carpet Company. 250,876; Dec. 18; Serial No 270,822; published Oct. 9, 1928.
Carpets and rugs. Breslin-Griffitt Carpet Company. 250,893; Dec. 18; Serial No. 270,827; published Oct. 9, 1928.
Tablecloths, napkins, towels, etc. Weil & Darrse. 250,892; Dec. 18; Serial No. 270,868; published Oct. 9, 1928.

CLASS 43.

Thread, floss, and rope for ornamental purposes. Bernhard Ulmann & Co. 72,392; renewed Jan. 19, 1929.

CLASS 45.

Beverages, Carbonated nonalcoholic. H. H. Morse. 69,468; renewed June 16, 1928.
Water, Carbonated. F. W. Becker. 53,587; renewed June 5, 1926.

CLASS 46.

Cake and cookies. Grandma Cookie Co. 250,762; Dec 18; Serial No. 238,215; published Dec. 14, 1926.
Candies. E. G. Jackson. 250,776; Dec. 18; Serial No. 268,735; published Oct. 9, 1928.
Candy. Fair Play Caramels, Inc. 250,767; Dec 18; Serial No. 247,608; published Feb. 28, 1928.
Candy. Hawley & Hoops. 250,733; Dec. 18; Serial No. 271 045; published Oct. 9, 1928.
Candy. Luden's Inc. 250,773; Dec. 18; Serial No 271,702; published Oct. 9, 1928.
Canned bamboo shoots. K. Ishihara Company. 250,792; Dec. 18; Serial No 271,810; published Oct. 9, 1928.
Canned fish. Coast Fishing Company. 250,772; Dec. 18; Serial No. 271,683; published Oct. 9, 1928.
Canned fruit, vegetables, spices, pickles, etc. Gerber Bros. 250,804; Dec. 18; Serial No. 268,090; published Oct. 9, 1928.
Canned fruits. Washington Growers Packing Corporation 250,745; Dec. 18; Serial No 271,220; published Oct. 9 1928.
Canned fruits and canned vegetables. Continental Fruit Packing Co. 250,883; Dec. 18; Serial No. 271,022; published Oct. 9, 1928.
Canned fruits and vegetables, chop suey, etc. Haas-Baruch & Company. 250,796; Dec. 18; Serial No 262,082; published Oct. 9, 1928.
Canned fruits and vegetables, pepper, etc. John Liddle Co. 250,916; Dec. 18; Serial No. 266,861; published Sept. 25, 1928.
Canned fruits, canned vegetables. E. Clemens Horst Company. 251,015; Dec. 18.
Canned fruits, fruit cocktails, etc. California Commercial Co. 251,021; Dec. 18.
Canned goulash. C. J. Bruder. 250,877; Dec. 18; Serial No. 270,790; published Oct. 9, 1928.
Canned pineapple. Hawaiian Pineapple Company, Ltd. 251,010; Dec. 18.
Canned salmon. Deming & Gould Co. 250,997; Dec. 18.
Canned vegetables, fruits, berries, baked beans, and clams. Holbrook Grocery Company. 73,446; renewed Apr. 20, 1929.
Chickens, turkeys, geese, eggs, etc. R. Blumer. 250,778; Dec. 18; Serial No. 268,906; published Oct. 9, 1928.
Chocolate coating and centers. Stein, Hall Manufacturing Company. 250,776; Dec. 18; Serial No. 271,715; published Oct. 9, 1928.
Coffee. Seaport Coffee Co. 250,774; Dec. 18; Serial No. 271,711; published Oct. 9, 1928.
Coffee mixtures, teas, spices, etc., Roasted. Spray Coffee and Spice Company. 250,764; Dec. 18; Serial No. 255,404; published Sept. 25, 1928.
Coffee, spices, canned fruits, etc. Isaac Frankel's Sons. 250,753; Dec. 18; Serial No. 253,749; published Sept. 25, 1928.
Compound of corn syrup, refiner's syrup, etc. Mangels-Herold Co. 250,953; Dec. 18; Serial No. 270,086; published Oct. 2, 1928.
Cookies. Colca-Cookie Corporation. 250,735; Dec. 18; Serial No. 172,066; published Sept. 25, 1928.
Extract, Malt. P. Cairns. 250,987; Dec. 18; Serial No. 268,207; published Sept. 25, 1928.
Extract, Malt. Milwaukee Delicatessen, Inc. 250,737; Dec. 18; Serial No. 271,139; published Oct. 2, 1928.
Extract, Malt. J. J. Trefny. 250,955; Dec. 18; Serial No. 270,062; published Sept. 25, 1928.
Flour, Cake and Pastry. Albers Bros. Milling Co. 250,884; Dec. 18; Serial No. 271,015; published Sept. 25, 1928.
Flour, self-rising flour, corn meal, and poultry feeds, Wheat. Page Milling Co. 250,913; Dec. 18; Serial No. 267,821; published Oct. 2, 1928.
Flour, Wheat. Carr Milling Company. 250,781; Dec. 18; Serial No. 255 743; published Jan. 10, 1928.
Food for hogs. Universal Mills. 250,965; Dec. 18; Serial No. 269,875; published Sept. 25, 1928.
Fruits and vegetables, Fresh. Sgobel & Day, Inc. 250,861; Dec. 18; Serial No. 263,435; published June 12, 1928.
Garlic juice, garlic flavor, and onion flavor. Garoni Mfg. Co. 250,929; Dec. 18; Serial No. 264,576; published Oct. 2, 1928.
Gelatin, dessert powder, etc. Eastern Products Company. 250,798; Dec. 18; Serial No. 265,782; published Oct. 9, 1928.
Honey. Tea Garden Products Co. 250,837; Dec. 18; Serial No. 269,809; published Oct. 9, 1928.
Honey, relish spread, fish, etc., Pure sage. Mutual Stores, Inc. 250 894; Dec. 18; Serial No. 264,496; published Oct. 2, 1928.
Macaroons, Cocoanut. Perfection Biscuit Company. 250,736; Dec. 18; Serial No. 271,078; published Sept. 25, 1928.
Malt compound powder. Gambrill Grain Products Co. 250,902; Dec. 18; Serial No. 269,452; published Sept. 25, 1928.
Milk, Condensed. The Firm of Henri Nestlé. 32,742; renewed Apr. 18, 1929.
Milk, cream, chocolate milk, etc. E. D. Snyder. 250,754; Dec. 18; Serial No. 252,981; published Oct. 2, 1928.
Milk, Evaporated. P. Duff & Sons, Inc. 250,947; Dec. 18; Serial No. 270,372; published Sept. 25, 1928.
Molasses. Tea Garden Products Co. 250,968; Dec. 18; Serial No. 269,808; published Oct. 2, 1928.
Molasses. Penick & Ford, Ltd. 250,951; Dec. 18; Serial No. 270,199; published Sept. 25, 1928.
Nuts and nuts in their natural state, and honey, dried fruits, Salted. L. Torn. 250,992; Dec. 18; Serial No. 268,006; published Sept. 25, 1928.
Oils of all kinds, Edible. Salgado y Compania, S. A. Union Commercial de Aceites. 250,871; Dec. 18; Serial No. 261,723; published Sept. 18, 1928.
Pectin, Unflavored prepared fruit. Pexel Co. 250,744; Dec. 18; Serial No. 271,194; published Oct. 9, 1928.
Picklelike product. Glaser, Crandell Co. 250,942; Dec. 18; Serial No. 270,418; published Sept. 25, 1928.
Preserves, vegetable fat, honey, etc., Fruit. I. Rokeach & Sons, Inc. 250,800; Dec. 18; Serial No. 266,623; published Oct. 9, 1928.
Salad dressings. Em-It Products Company. 250,971; Dec. 18; Serial No. 270,696; published Sept. 25, 1928.
Seeds used as food and herbs. Service Grocer Company. 250,928; Dec. 18; Serial No. 264,388; published Sept. 25, 1928.
Spices and flavoring extracts. G. H. Ballou Company. 71,162; renewed Nov. 3, 1928.
Substances used as food or as ingredients of food. W. J. Bush and Company. 250,914; Dec. 18; Serial No. 267,350; published Sept. 25, 1928.
Sugar. J. D. and A. B. Spreckels Securities Company. 250,841; Dec. 18; Serial No. 216,294; published June 21, 1927.
Syrup, Combination of refiner's. Tea Garden Products Co. 250,967; Dec. 18; Serial No. 269,812; published Sept. 25, 1928.
Syrup, Malt. C. E. Alfeld. 250,938; Dec. 18; Serial No. 270,566; published Sept. 25, 1928.
Syrup, Malt. Bohemian Distributing Co. Inc. 250,851; Dec. 18; Serial No. 269,508; published Oct. 9, 1928.



Syrup, Malt. Samuel A. Cohn & Bro. 250,829; Dec. 18; Serial No. 271,021; published Oct. 9, 1928.
Syrup, Malt. M. H. Gertner. 250,891; Dec. 18; Serial No. 270,883; published Sept. 25, 1928.
Syrup, Malt. J. Hellweil. 250,890; Dec. 18; Serial No. 270,885; published Oct. 2, 1928.
Syrup, Malt. Joannes Brothers Company. 250,964; Dec. 18; Serial No. 269,900; published Oct. 2, 1928.
Syrup, Malt. W. C. Lehnert. 250,812; Dec. 18; Serial No. 271,132; published Oct. 9, 1928.
Syrup, Malt. Val Blatz Brewing Company. 250,934; Dec. 18; Serial No. 270,617; published Oct. 2, 1928.
Syrup, Table. Tea Garden Products Co. 250,895; Dec. 18; Serial No. 269,806; published Oct. 2, 1928.
Syrups, Malt. Great West Sales Corporation. 250,958; Dec. 18; Serial No. 270,025; published Sept. 25, 1928.
Toast. H. G. Cubbison. 250,962; Dec. 18; Serial No. 269,947; published Oct. 2, 1928.
Tomato catsup. H. H. Meyer Packing Company. 250,945; Dec. 18; Serial No. 270,383; published Sept. 25, 1928.
Vegetables, melons, berries, cranberries, Fresh. F. J. Day. 250,765; Dec. 18; Serial No. 254,127; published Oct. 2, 1928.

# ALPHABETICAL LIST OF LABELS.

A Safe Ladder. For Ladders. Ladder Manufacturers Association of America. 35,112; Dec. 18.
Aunt Nellie's. For Canned Peas. Aunt Nellie's Farm Kitchen, Inc. 35,092; Dec. 18.
Bandsco. For Fresh Sweet Potatoes. Barnett & Sibille Co. 35,093; Dec. 18.
Beech-Nut Fruit Flavored Candy Coated Gum—Beechies. For Candy-Coated Chewing Gum. Beech-Nut Packing Company. 35,095; Dec. 18.
Beech-Nut Spearmint Candy Coated Gum—Beechies. For Candy-Coated Chewing Gum. Beech-Nut Packing Company. 35,094; Dec. 18.
Chewee. For Candy. John D. Hamilton Company. 35,105; Dec. 18.
Chuckles Circus-Box. For Candy. Fred W. Amend Co. 35,091; Dec. 18.
Colored Twist Ends Home Made Cream Checkerberry. For Chocolate-Covered Cream Checkerberry Candy. E. F. Kemp. 35,109; Dec. 18.
Colored Twist Ends Home-Made Cream Pe-Nu-Che. For Chocolate Covered Cream Peppermint Candy. E. F. Kemp. 35,108; Dec. 18.
Colored Twist Ends Home Made Cream Peppermint. For Chocolate-Covered Cream Peppermint Candy. E. F. Kemp. 35,110; Dec. 18.
Como Butter. For Butter. Miller & Holmes. 35,116; Dec. 18.
Countess Cake. For Dark Fruit Cake. General Baking Company. 35,101; Dec. 18.
Dr. Miles Health Shoe. For Footwear. Bleeker Shoe Co. 35,097; Dec. 18.
Frisch Process. For Bread. E. Frisch. 35,100; Dec. 18.
Grennan Cakes (Made from Tested Cook Book Recipes) Cookies Every Bite a Delight. For Fruit Cake. Grennan Bakeries, Inc. 35,104; Dec. 18.
Jumbo Twins. For Bread. Johnson's Bakery, Inc. 35,106; Dec. 18.
Katsafana's Hotel Special. For Coffee. Katsafanas Coffee Company. 35,107; Dec. 18.
Keyspray. For Insecticide. Keystone Chemical Co. 35,111; Dec. 18.
La Margé Cucumber-Almond Creme. For Cold Cream. M. Weber. 35,122; Dec. 18.
Monte Carlo Sandal. For Footwear. Bleecker Shoe Co. 35,096; Dec. 18.
Oriole. For Butter. Menasha Printing and Carton Company. 35,115; Dec. 18.
Penlo. For Cigars. Coraza Cigar Company. 35,099; Dec. 18.
Pyrro. For Home Treatment for Pyorrhea, Sore, Bleeding, Receding, Swollen, Spongy Gums, and Bad Breath. M. A. Payne, D. D. S. 35,119; Dec. 18.
Radio Brend. For Bread. Menasha Printing and Carton Company. 35,113; Dec. 18.
Rum Refill for the Rumidor. For a Smoker's Article for Flavoring and Moistening Cigars Cigarettes, and Pipe Tobacco. Rumidor Corporation. 35,121; Dec. 18.
Shredded Sweet Biscuit. For Candy. Gilliam Candy Company. 35,102; Dec. 18.
Skeet Loads. For Ammunition. Remington Arms Company. 35,120; Dec. 18.
The Globe Screen Door Check & Closer. For Doorchecks. Bright Automatic Machine Co. 35,098; Dec. 18.
The Invisible Adjustable. For Caps for Men, Boys, and Children. Greenstein & Josephson. 35,103; Dec. 18.
The Long Expected Coffee. For Coffee. P. Pascal Inc. 35,118; Dec 18.
The Mornanite Dental Creams. For Dental Creams. Mornanite Laboratories, Inc. 35,117; Dec. 18.
Tuscarawas. For Butter. Menasha Printing and Carton Company. 35,114; Dec. 18.
Western Weld Special Cement. For Special Nonfreezing Cement for Cementing Tire Patches. Western States Mfg. Co. 35,123; Dec 18.

# ALPHABETICAL LIST OF PRINTS.

Better Grocers Incorp. For Groceries. Armstrong Grocery Company. 11,381; Dec. 18.
C. E. Lewis. For Spark Plugs. Defiance Spark Plugs, Inc. 11,383; Dec. 18.
Chez Francois. For Crystallized Fruits and Candies. A. F. Jacquemoux. 11,393; Dec. 18.
Drink Pep, a Beverage. For Beverage. J. P. Devir. 11,384; Dec. 18.
For Real Buckwheat Pancakes. For Buckwheat Flour. Hecker H-O Co. Inc. 11,386; Dec. 18.
For Real Old Fashioned Buckwheat. For Buckwheat Flour. Hecker H-O Co. Inc. 11,390; Dec. 18.
Harva—Bobbed Hair Combs. For Combs. Julius Schmid, Inc. 11,395; Dec. 18.
Harva Women's Dressing Combs. For Combs. Julius Schmid, Inc. 11,396; Dec. 18.
Hearts of Selected Wheat. For Cream Farina. Hecker H-O Co. Inc. 11,389; Dec. 18.
New Presto. For New Presto Improved Cake Flour. Hecker H-O Co. Inc. 11,391; Dec. 18.
One Cent Luncheon Set. For Luncheon Sets. H. L. Scholl. 11,401; Dec. 18.
One Cent Scarf. For Dresser Scarfs. H. L. Scholl. 11,397; Dec. 18.
One Cent Vanity Set or Scarf. For Pillowcases, Scarfs, and Vanity Sets. H. L. Scholl. 11,398–400; Dec. 18.
The New Kind of Oatmeal. For New-Style H-O (Quick-Cooking Oats). Hecker H-O Co. Inc. 11,392; Dec. 18.
United Food Stores. For Groceries and Provisions. National Merchandising Service Co. 11,394; Dec. 18.
Vermont Teachers find this Ingenious Material Grips Children's Attention. For Wheat Breakfast Food. Cream of Wheat Co. 11,382; Dec. 18.
Waffles and Pancakes. For Old Homestead Pancake Flour. Hecker H-O Co. Inc. 11,387; Dec. 18.
Win a Brand New Ford Sedan. For Perfume. S. M. Freid. 11,385; Dec. 18.
You can't Buy a Cake like this. For New Presto Improved Cake Flour. Hecker H-O Co. Inc. 11,388; Dec. 18.

# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Aarons, Alfred H. (See James, William B., assignor.)
Abbey, Orville E., Corning, Iowa. Automobile license-certificate holder. 1,695,941; Dec. 18.
Abbott, Henry H. (See Bascom, H. M., and Abbott.)
Abbott, Henry H., New York, N. Y., assignor to American Telephone and Telegraph Company. Telephone system. 1,695,312; Dec. 18.
Abraham, Herbert, New York, N. Y., assignor to The Rubberoid Company. Roof. Des. 77,213; Dec. 18.
Adams, Clark M., Ottawa Hills, assignor to The W. G. Nagel Electric Company, Toledo, Ohio. Electrical indicating instrument. 1,695,264; Dec. 18.
Adams Industries, Inc. (See Jacques, Raynaldo P., assignor.)
Advance-Rumely Company. (See Higgins, William H. C., jr., assignor.)
Agnew, John P. (See Thurlow, L. K., and Agnew.)
Ahern, Albert M., Santa Monica, Calif. Dishwashing device. 1,695,703; Dec. 18.
Ahlborn, Theodor, Chicago, Ill. Portable cottage. Des. 77,214; Dec. 18.
Aiken, Joseph E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Microphone system. 1,695,875; Dec. 18.
Albright, Edward C., assignor to Indiana Lamp Corporation, Connersville, Ind. Headlamp construction. 1,695,478; Dec. 18.
Aldendorff, Charlotte, (sole heir). (See Aldendorff, Fritz.)
Aldendorff, Fritz, deceased, Berlin-Wilmersdorf, Germany; C. Aldendorff, heiress. Automatic telephone system. 1,695,267; Dec. 18.
Aldendorff, Fritz, deceased, Berlin-Wilmersdorf, Germany, assignor of one-fourth to P. Kollsch, New York, N. Y.; C. Aldendorf, sole heir. Automatic telephone system. 1,695,268; Dec. 18.
Alemite Manufacturing Corporation. (See Burton, Charles S., assignor.)
Alemite Manufacturing Corporation. (See Herb, Otto J., assignor.)
Alemite Manufacturing Corporation. (See Zerk, Oscar, assignor.)
Alexander, Grant. (See Panaile, A., and Alexander.)
Algyre, Harry D., Holdenville, Okla. Pipe coupling. 1,696,134; Dec. 18.
Allen, Benjamin H., Beaumont, Tex. Serving device. 1,695,628; Dec. 18.
Allen, Jack, Brooklyn, N. Y. Resilient wheel. 1,695,629; Dec. 18.
Allen, Stratford B., Cambridge, Mass. Reception apparatus for telephone systems. 1,696,024; Dec. 18.
Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
Altpeter, Ludwig, Trier, Germany. Centrifuge. 1,695,990; Dec. 18.
American Arch Company. (See Himmelright, Raleigh J., assignor.)
American Can Company. (See Stollberg, Charles, assignor.)
American Chain Company. (See Reifsnider, John M., assignor.)
American Cystoscope Makers, Inc. (See Wappler, Reinhold H., assignor.)
American Electric Motor Company. (See Daun, Carl L., assignor.)
American Elevator and Machine Co. (See Roberston, Martin J., assignor.)
American Engineering Company. (See Harrison, Clifford E., assignor.)
American Hardware Corporation, The. (See Stone, Elmer B., assignor.)
American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)
American Signa Corporation. (See Norton, Don W., assignor.)
American Stay Co. (See Merrick, Frank W., assignor.)
American Telephone and Telegraph Company. (See Abbott, Henry H., assignor.)
American Telephone and Telegraph Company. (See Bascom, H. M., and Abbott, assignors.)
American Telephone and Telegraph Company. (See Gordon, W. A., Murphy, and Perrone, assignors.)
American Writing Paper Company. (See Yoerg, Leon M., assignor.)
Amitin, Alexander. (See Marshak, Isidore, assignor.)
Amrad Corporation, The. (See Woodhull, Samuel T., assignor.)
Amsler, Walter O., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Draw-table-heating unit. 1,695,265; Dec. 18.
Anderson, Ernst G. K., Evanston, Ill., assignor to Appleton Electric Company. Thermostatically-controlled heating plug. 1,696,146; Dec. 18.
Anderson, George F., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip stick. 1,695,407; Dec. 18.
Anderson, Harry G., New York, N. Y. Keyless lock. 1,695,266; Dec. 18.
Anderson, John A. (See Hobbs, W. F., and Anderson.)
Andrews, James M., Brooklyn, assignor to Robert Gair Company, New York, N. Y. Box board or caddy stock. 1,695,837; Dec. 18.
Appleman, Boyd K., Beaumont, Tex. Oil-storage tank. 1,695,358; Dec. 18.
Appleton Electric Company. (See Anderson, Ernst G. K., assignor.)
Archer, Lenah B., executrix. (See Burrows, Linus P.)
Archer, Raymond, Redmond, Oreg. Internal-combustion engine. 1,695,704; Dec. 18.
Arctic Nu-Air Corporation. (See Feinberg, Allen A., assignor.)
Arctic Nu-Air Corporation. (See Sternberg, Irving C., assignor.)
Arima, Hikosuke, Tokyo, Japan. Mechanism for automatically replenishing weft in power looms. 1,695,630; Dec. 18.
Arms, Ray W., assignor to Roberts and Schaefer Company, Chicago, Ill. Dry-separating machine. 1,695,569; Dec. 18.
Arms, Ray W., assignor to Roberts & Schaefer Company, Chicago, Ill. Dust-collecting system for dry-cleaning tables. 1,695,570; Dec. 18.
Armstrong Cork Company. (See Busch, Herman F., assignor.)
Armstrong, Howard, Humberstone, Ontario, Canada. Brake for conveyers. 1,696,072; Dec. 18.
Arndt, Hermann, Berlin, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Automatic block-signal system. 1,695,313; Dec. 18.
Art in Buttons Incorporated. (See Noyes, Henry T., assignor.)
Art in Buttons Incorporated. (See Noyes, H. T., and Stanforth, assignors.)
Artlite, Inc. (See McGunnigle, Harold A., assignor.)
Ashmun, Harry S. (See Titcomb, L. R., and Ashmun.)
Associated Attleboro Manufacturers, Inc., The. (See Wallenthin, Walfrid, assignor.)
Atherton, Alfred L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing means for hot-cathode rectifiers. 1,696,025; Dec. 18.
Atlantic Service Company. (See Laemmel, Charles A., assignor.)
Atlas Powder Company. (See Huyett, Daniel D., assignor.)
Atwater, John H., Jamestown, N. Y. Protecting lawns. 1,695,942; Dec. 18.
Atwood Vacuum Machine Company, The. (See Kenyon, William C., assignor.)
Auchter, Anton F. A., Pittsburgh, Pa. Safety device for vehicles. 1,696,073; Dec. 18.
Automatic Advertiser, Incorporated, The. (See Proctor, Barton A., assignor.)
Avery, True M. (See Gibson, J. R., and Avery.)
Babcock & Wilcox Company, The. (See Seifert, Charles H., assignor.)
Bakelite Corporation. (See Turkington, Victor H., assignor.)
Baker, Bertram F., Tannersville, N. Y. Dispensing-tube base. 1,696,147; Dec. 18.
Baker, John M., Columbus, Ohio. Electrical heater. 1,695,753; Dec. 18.
Ball & Ball Carburetor Company. (See Ball, Frederick O. and T. M., assignors.)
Ball, Frederick O. and T. M., assignors to Ball & Ball Carburetor Company, Detroit, Mich. Constant-level device. 1,695,705; Dec. 18.
Ball, Thomas M. (See Ball, Frederick O. and T. M.)
Ballard, Harrie A., Beverly, Mass., assignor, by mesne assignments, to International Shoe Company, St. Louis, Mo. Inner sole and making the same. 1,695,408; Dec. 18.
Bally, Albert C., Toledo, Ohio. Spring shackle. 1,695,943; Dec. 18.
Bane, Oscar W., Cumberland, Md. Carpenter's combination tool. 1,695,944; Dec. 18.
Banks, Herbert B., Chicago, Ill. Baby cab. 1,695,409; Dec. 18.
Bannister, William J. (See Woodruff, J. C., Bloomfield, and Bannister.)

Bannister William J., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Manufacture of esters. 1,695,449; Dec. 18.

Barany, Edmund R., Brooklyn, N. Y. Vanity case. 1,695,677; Dec. 18.

Barany, Edmund R., Brooklyn, N. Y., assignor to French Battery Company, Madison, Wis. Electrical handlamp. 1,695 876; Dec. 18.

Barber, Frank E., Brooklyn, assignor to Intertype Corporation, New York, N. Y. Casting means for typographical machines. 1,696,074; Dec. 18.

Barbour, John A., et al. (See Lyon Harry, assignor.)

Barbour, Perley E. (See Lyon, Harry, assignor.)

Barbour, Perley E., et al. (See Lyon, Harry, assignor.)

Barbour Welting Company. (See Lyon, Harry.)

Bardons and Oliver. (See Hornberger, Earl J.)

Barker, Stanley F., Chicago, Ill. Temperature-indicating mechanism. 1,695,838; Dec. 18.

Barnard, Fred C. (See Wood, F. H., and Barnard.)

Barton, Francis M., Chicago, Ill. Concrete reenforcement. 1,695,269; Dec. 18.

Barton, Louis E., and C. J. Kinzie, Niagara Falls, assignors to Titanium Pigment Company, Inc., New York, N. Y. Obtaining titanic oxide. 1,695,270; Dec. 18.

Baruth, Albert J., et al. (See McCollum, James H. K., assignor.)

Bascom, Henry M., Brooklyn, and H. H. Abbott, New York, N. Y., assignors to American Telephone and Telegraph Company. Telephone system. 1,695,314; Dec. 18.

Baseler, Wolfgang, Munich, assignor to Lorenz-Zeiss-Zugsicherungs-G. m. b. H., Berlin-Tempelhof, Germany. Train-controlling means by light rays. 1,695,410; Dec. 18.

Bath, John. (See Bath, Stanley W., assignor.)

Bath, Stanley W., Worcester, Mass., assignor, by mesne assignments, to John Bath. Motor-control mechanism for machine tools. 1,695,359; Dec. 18.

Bauer, Charles H., Milwaukee, Wis. Adjustable metal insert for concrete work. 1,695,909; Dec. 18.

Bauer, Marius A., Worcester, Mass., assignor to M. J. Whittall Associates. Actuating and supporting mechanism for the knotting tables of oriental-rug looms. 1,695,360; Dec. 18.

Baughman, George W., Edgewood Borough, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway-traffic-controlling apparatus. 1,695,678; Dec. 18.

Baxter, William C., assignor to E. M. Trimble Mfg. Co. Inc., Rochester N. Y. Crib. 1,695,571; Dec. 18.

Becker, Otto, jr., Barmen, Germany. Electric safety lamp for miners. 1,695,794; Dec. 18.

Belke, William E., Chicago, Ill. Plating tank. 1,695,795; Dec. 18.

Bell Telephone Laboratories, Incorporated. (See Stokely, Ray L., assignor.)

Bemm, Frank W., Milwaukee, Wis., assignor to O. G. Stoffregen, Chicago, Ill. Lingerie clasp. 1,695,521; Dec. 18.

Benit, Henri, assignor to Compagnie Generale d'Electricité, Paris, France. Spring-belt stretcher. 1,695,945; Dec. 18.

Benjamin, Bert R., Oak Park, C. R. Raney, Chicago, and W. Webber, La Grange, assignors to International Harvester Company, Chicago, Ill. Power-drive grain binder. 1,695,522; Dec. 18.

Benn, Noah, Anderson, Ind. Oil cellar for journal boxes. 1,695,754; Dec. 18.

Bennett, Charles A., Tallulah, La., dedicated, by assignments, to the Government and the People of the United States of America. Seed-cotton-drying apparatus. 1,695,991; Dec. 18.

Bennett, Morris H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Condenser. 1,695,470; Dec. 18.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Induction motor. 1,695,946; Dec. 18.

Bergman, Sven R., Nahant, Mass., assignor to General Electric Company. Forming induction motors. 1,695,947; Dec. 18.

Bergsten, John, Redondo Beach, assignor of one-half to N. W. Hendershot, Lomita, Calif. Combined casing-head packer and blow-out preventer. 1,695,992; Dec. 18.

Berliner, Robert, B. Stein, and W. Trautner, Elberfeld, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Vat dyestuff derived from 2-halogen-1.9-pyrazolanthrone. 1,695,631; Dec. 18.

Berlowitz, Max E., Belleville, N. J., assignor, by mesne assignments, to Magnetic Analysis Corporation, Long Island City, N. Y. Testing coil. 1,695,679; Dec. 18.

Bernini, John, Allentown, Pa. Warp-let-off mechanism for looms. 1,695,361; Dec. 18.

Berns, Max A., Chicago, Ill. Booklet. 1,695,315; Dec. 18.

Berry, Bert C., Calgary, Alberta, Canada, and H. S. Dickinson, Moline, Ill., assignors to Peerless Shock Loader Company, Wilmington, Del. Shock loader. 1,695,572; Dec. 18.

Bertsch, Johann A. (See Jaeger, A. O., and Bertsch.)

Bethlehem Steel Company. (See Froelich, Clarence H., assignor.)

Bettcher Stamping & Manufacturing Company, The. (See Bump, Edward D., assignor.)

Bettscher Stamping & Manufacturing Company. (See Bump, Spencer M., assignor.)

Bezzenberger, Fred K., Cleveland Heights, Ohio, assignors, by mesne assignments, to The Fulton Syphon Company, Knoxville, Tenn. Closed metallic corrugated wall and making same. 1,695,948; Dec. 18.

Bierbower, Richard C., San Antonio, Tex. Automatic magnetic switch. 1,696,107; Dec. 18.

Bierman, George H. (See Kinney, L. W., and Bierman.)

Biggert, Florence C., jr., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Continuous sheet mill and making finished sheets. 1,695,910; Dec. 18.

Bilhorn Construction Company. (See Bilhorn, Walter E., assignor.)

Bilhorn, Walter E., assignor to Bilhorn Construction Company, St. Louis, Mo. Concrete anchor. 1,695,523; Dec. 18.

Bird, Frank, Hamilton, assignor to Bird's Patents Limited, Auckland, New Zealand. Operating means for faulights and the like. 1,695,755; Dec. 18.

Bird's Patents Limited. (See Bird, Frank, assignor.)

Bishop, Joseph W., and B. C. Booth, Muskegon, Mich., assignors to The Brunswick-Balke-Collender Company, Wilmington, Del. Combined phonograph and radio apparatus. 1,695,911; Dec. 18.

Blacher, Benjamin, assignor to Blacher Brothers, Providence, R. I. Fastener for bag frames. 1,695,706; Dec. 18.

Blacher Brothers. (See Blacher, Benjamin, assignor.)

Blackman, Albert E., Mount Vernon, N. Y. Mail box. 1,695,524; Dec. 18.

Blesch, Charles, Newport, Ky., assignor to The Crane & Breed Manufacturing Company, Cincinnati, Ohio. Burial-casket handle. Des. 77,216; Dec. 18.

Bloomfield, Grover. (See Woodruff, J. C., Bloomfield, and Bannister.)

Blumenberg, Henry, jr., Los Angeles, Calif. Mining boron compounds. 1,696,075; Dec. 18.

Blystone Manufacturing Company. (See Goldston, David C., assignor.)

Bode, Peter J., St. Louis, Mo. Fishing tackle. 1,696,026; Dec. 18.

Boeing Airplane Company. (See Sanders, John C., assignor.)

Booe, John A. (See Seward, R. R., and Booe.)

Booth, Byron C. (See Bishop, J. W., and Booth.)

Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Wheel hub. 1,695,525; Dec. 18.

Booth, William N., assignor to Kelsey-Hayes Wheel Corporation, Detroit, Mich. Brake drum. 1,695,526; Dec. 18.

Borenstein, Abraham D., Brooklyn, N. Y. Hose supporter. 1,695,573; Dec. 18.

Borklund, Peter E., Spokane, Wash. Duplex screw driver. 1,695,949; Dec. 18.

Bosch, Robert, Aktiengesellschaft. (See Schmid, A., and Stoll, assignors.)

Bots, Hermann, and A. Catineau, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Bluish sulphurized indophenol dyes and making the same. 1,695,756; Dec. 18.

Bourges, Carl, Hagen, assignor to Metallisator Berlin A. G., Berlin, Germany. Separating apparatus. 1,695,362; Dec. 18.

Bourne-Fuller Company, The. (See Chapin, Fred H., assignor.)

Bowers, William J. (See Moore, W. D., Loring, and Bowers.)

Boyce, Harrison H., Jericho, N. Y. Illuminating means for motor heat indicators. 1,695,707; Dec. 18.

Boyd, James K., Wilkinsburg, and F. F. Slick, North Braddock, Pa. Rail joint. 1,696,108; Dec. 18.

Brace, Porter H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-responsive device. 1,695,877; Dec. 18.

Braun, Nicholas, St. Louis, Mo. Outlet hood. 1,695,527; Dec. 18.

Bridgeport Brass Company. (See Oakley, Erastus G., assignor.)

Bridgeport Hardware Manufacturing Corporation, The. (See Hobbs, W. F., and Anderson, assignors.)

Briggs & Stratton Corporation. (See Jacobi, Edward N., assignor.)

Brown, Arthur L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Treating fibrous material. 1,695,912; Dec. 18.

Brown & Bigelow. (See Kristofek, F. J., and Hammerquist, assignors.)

Brown Instrument Company. (See Harrison, Thomas R., assignor.)

Brown, John W., Mfg. Co., The. (See Donley, Harold B., assignor.)

Brownlee, William K., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Glass furnace. 1,695,528; Dec. 18.

Brownridge, James B., Toronto, Ontario, Canada. Anti-rail-creeping device. 1,695,993; Dec. 18.

Brownyer, Nelson R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Car wheel. 1,695,529; Dec. 18.

Bruckner, Charles C. (See McKeown, S. C., and Bruckner.)

Bruder, August J., Holly, Mich. Toilet seat. 1,695,530; Dec. 18.

Bruni, Pasquale, Fort Lee, N. J. Combination implement. 1,696,076; Dec. 18.

Brunswick-Balke-Collender Company, The. (See Bishop, J. W., and Booth, assignors.)





Bryant Electric Company, The. (See Forstrom, Edward E., assignor.)

Bryant, Frank H., Mill Valley, Calif. Tire shoe. 1,695,450; Dec. 18.

Buchwalter, Marguerite A., New York, N. Y. Candlestick or similar article. Des. 77,217; Dec. 18.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Budd, Edward G., assignor to Budd Wheel Company, Philadelphia, Pa. Rolling wheel rims. 1,595,531; Dec. 18.

Budd Wheel Company. (See Budd, Edward G., assignor.)

Bugatti, Ettore, Molsheim, France. Contact device for magnetos. 1,695,708; Dec. 18.

Bugbee & Niles Co. (See King, Rufus, assignor.)

Bullard, Edward P., jr., Stratford, assignor to The Bullard Machine Tool Company, Bridgeport, Conn. Automatic multiple-spindle lathe. 1,696,027; Dec. 18.

Bullard Machine Tool Company, The. (See Bullard, Edward P., jr., assignor.)

Bullis, Carleton H., Cleveland, Ohio. Musical instrument. 1,695,574; Dec. 18.

Bump, Edward D., Lakewood, assignor to The Bettcher Stamping & Manufacturing Company, Cleveland, Ohio. Chair. 1,696,153; Dec. 18.

Bump, Spencer M., Lakewood, assignor, to The Bettcher Stamping & Manufacturing Company, Cleveland, Ohio. Chair-seat mounting. 1,696,154; Dec. 18.

Buoy, Chester D., assignor to G. H. Williams Company, Erie, Pa. Drag-line excavator. 1,695,480; Dec. 18.

Burch, Donald D., Earlsboro, Okla. Oil-well pump. 1,696,135; Dec. 18.

Burke, Nora T., Stoneham, Mass. Fountain pen. 1,695,913; Dec. 18.

Burke, Robert J., assignor to Lincoln Scale Corporation, Pittsburgh, Pa. Check link for scales. 1,695,316; Dec. 18.

Burlington Separator Co., The. (See Wheeler, George E., assignor.)

Burns, Gordon E. (See Hall, E. A., and Burns.)

Burrows, Lenah. (See Burrows, Linus P.)

Burrows, Linus P., deceased, Erie, Pa.; L. B. Archer, executrix, now, by change of name, Lenah Burrows, Navarre, Ohio. Producing gas. 1,695,914; Dec. 18.

Burt, F. N., Company. (See Dreux, Alexander H., assignor.)

Burton, Charles S., Oak Park, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Oil gun. Re17,165; Dec. 18.

Busch, Charles H., assignor to Simmons Company, Kenosha, Wis. Metal furniture. 1,695,411; Dec. 18.

Busch, Herman F., Millvale, assignor to Armstrong Cork Company, Pittsburgh, Pa. Cork facing for rolls. 1,695,317 Dec. 18.

Buvinger, George A., and C. Warner, assignors to Delco-Light Company, Dayton, Ohio. Pumping apparatus. 1,695,318; Dec. 18.

Byers Machine Company, The. (See Shaffer, Layton S., assignor.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Rasmussen, assignors.)

C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Van Husen, assignors.)

Cady, Sherman W., Richmond, Ind., assignor to International Harvester Company. Chaffer for thrashers. 1,695,532; Dec. 18.

Caldwell, Edwin, New York, N. Y. Pipe holder. 1,695,533; Dec. 18.

Callsen, Albert, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Induction meter. 1,695,878; Dec. 18.

Cambridge Rubber Company. (See Westling, Herman, assignor.)

Camp, Percy B., Maywood, Ill., assignor to Universal Draft Gear Attachment Co. Dynamometer. 1,696,148; Dec. 18.

Camp, Troy E., Stephenson, Miss. Cant support and guide. 1,695,757; Dec. 18.

Campbell, Charles C., Washington, D. C. Spark plug. 1,695,632; Dec. 18.

Campbell, David W., Minneapolis, Minn. Door-mounting structure. 1,696,175; Dec. 18.

Campbell, David W., Minneapolis, Minn. Door-operating mechanism. 1,696,176; Dec. 18.

Campbell, Earl F. B., assignor of one-half to E. J. Francis, New Kensington, Pa. Dental mirror. 1,695,451; Dec. 18.

Cantini S, Pio, Bogota, Colombia. Automatically-dirigible headlight for vehicles. 1,695,758; Dec. 18.

Capital Caps Limited. (See Levinsky, Jacob, assignor.)

Caplinger, John D., Newark, N. J., assignor to C. A. Kellogg, New York, N. Y. Web-printing machine. 1,695,271; Dec. 18.

Caps, Arthur W., Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I. Photographic-copying machine. 1,695,481; Dec. 18.

Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Sewing-machine-needle-controlling mechanism. 1,695,680; Dec. 18.

Carlsson, Frans O. (See Öhlin, E. A., and Carlsson.)

Carnes, Almus T., Kansas City, Mo. Hose nozzle. 1,695,452; Dec. 18.

Caron, Arthur J., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Shingled roof. Des. 77,218; Dec. 18.

Carpenter, Cranston H., Irwin, Pa., assignor to Westinghouse Electric & Manufacturing Company. Furnace. 1,695,950; Dec. 18.

Carpenter, James C., jr. (See Major, W. W., and Carpenter.)

Carpenter, Teunauski Z., Providence, R. I. Gauge. 1,695,453; Dec. 18.

Carrier Engineering Corporation. (See Carrier, Willis H., assignor.)

Carrier, Willis H., Essex Fells, assignor to Carrier Engineering Corporation, Newark, N. J. Stuffing box or sealing means for compressors and the like. 1,695,320; Dec. 18.

Carroll, Louis W., Riverside, assignor of one-half to G. Muffly, Chicago, Ill. Steam-heating system. 1,696,028; Dec. 18.

Carter, Edward B., Boston, Mass. Stringing machine. 1,695,796; Dec. 18.

Carter, George R., Company, The. (See Creamer, Edgar R., assignor.)

Carter, William C., Flint, Mich. Pump diaphragm. 1,695,534; Dec. 18.

Carter, William O., Flint, Mich. Liquid-fuel-pumping apparatus. 1,695,535; Dec. 18.

Caruthers, Eugene W., Secane, Pa. Rail joint. 1,695,839; Dec. 18.

Case, Lynn B., assignor to John Waldron Corporation, New Brunswick, N. J. Coating machine. 1,695,319; Dec. 18.

Casella, Secondo L., New York, assignor to Yale Electric Corporation, Brooklyn, N. Y. Bobbin trimming and cleaning machine. 1,695,681; Dec. 18.

Catanzarite, Frank, Danville, Ind. Cutter-guard construction. 1,695,994; Dec. 18.

Catineau, André. (See Bots, H., and Catineau.)

Causey, Guy M., Salem, Oreg., and M. E. Miller, Washington, D. C. Pipe cutter. 1,695,363; Dec. 18.

Cavicchi, Ernest, Arlington, Mass. Button. 1,695,482; Dec. 18.

Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping weft detector for looms. 1,695,365; Dec. 18.

Cederlund, Albert, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector in loom transferrer. 1,695,366; Dec. 18.

Cee-Bee Machine Corporation. (See Cohn, Max, assignor.)

Century Rubber Works. (See Venn, Henry L., assignor.)

Chadeloid Chemical Company. (See Ellis, Carleton, assignor.)

Chamberlin Metal Weather Strip Company. (See Glaser, Joseph P., assignor.)

Chandler, Harvey V., Sulphur Springs, Tex. Article carrier. 1,696,029; Dec. 18.

Chapin, Fred H., Cleveland Heights, assignor to The Bourne-Fuller Company, Cleveland, Ohio. Shrink-head casing. 1,695,797; Dec. 18.

Chase, Elroy A., Northfield, Vt. Stone-sawing machine. 1,695,364; Dec. 18.

Chauveau, Louis L., Paris, France. Call selector. 1,695,840; Dec. 18.

Chicago-Cleveland Car Roofing Company. (See Wright, William, assignor.)

Chicago Forging & Manufacturing Company. (See Gilmore, Charles B., assignor.)

Chicago Railway Equipment Company. (See De Long, Frederic T., assignor.)

Christian, Charles H., and C. F. Walker, Cleveland, Ohio. Bin-gate arrangement. 1,695,272; Dec. 18.

Ciner, Emanuel, New York, N. Y. Ring. Des. 77,219; Dec. 18.

Clark, Alfred T., H. A. Leonhauser, and J. R. Jester, Baltimore, Md. Junction-box mounting. 1,695,633; Dec. 18.

Clark, Earl K., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Thermostatic device. 1,695,879; Dec. 18.

Clark, J. R., Company. (See Kalgren, John E., assignor.)

Clark, William C. (See Pugh, J. P., and Clark.)

Clench, William A., Vancouver, British Columbia, Canada. Manual rim lock. 1,695,798; Dec. 18.

Cleveland Crane & Engineering Company, The. (See Wehr, William G., assignor.)

Cleveland Trust Company, The. (See Diamond, James E., assignor.)

Clifford, Patrick J., Falls, Pa., assignor to Train Control Corporation of America, New York, N. Y. Train-control apparatus. 1,695,880; Dec. 18.

Clum Manufacturing Co. (See Winning, Robert K., assignor.)

Clyde Iron Works. (See McGiffert, John R., assignor.)

Coburn, Azro A., Holyoke, Mass. Golf tee. 1,696,136; Dec. 18.

Coffman, Charles M., Gallipolis, Ohio. Auto jack. 1,695,881; Dec. 18.

Cohen, Leon, St. Louis, Mo. Sectional page. 1,695,575; Dec. 18.

Cohn, Max, Brooklyn, N. Y., assignor to Cee-Bee Machine Corporation. Machine for making hat linings. 1,695,273; Dec. 18.

Colborne Manufacturing Company. (See Smith, Dennis W., assignor.)

Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,695,882; Dec. 18.

Colby, Ora A., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Rotary-hearth furnace. 1,695,883; Dec. 18.

Cole, William A., Belding, Mich. Machine for hanging wall paper. 1,695,915; Dec. 18.

Collins, George B., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Metal-testing apparatus. 1,695,367; Dec. 18.

Collis, O. D. (See Grant, Clair R., assignor.)

Colson, Victor, Brussels, Belgium. Door or the like latching device. 1,696,137; Dec. 18.

Combustion Engineering Corporation. (See Nygaard, Oscar O., assignor.)

Commercial Solvents Corporation. (See Bannister, William J., assignor.)

Commercial Solvents Corporation. (See Woodruff, J. C., Bloomfield, and Bannister, assignors.)

Compagnie Generale d'Electricité. (See Bénit, Henri, assignor.)

Comstock, Gregory J., Pittsburgh, assignor to Firth-Sterling Steel Company, McKeesport, Pa. Alloy steel. 1,695,916; Dec. 18.

Conant, David J., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Collector ring. 1,695,884; Dec. 18.

Cone, Bennie M., et al. (See Rueppel, W., and Cone, assignors.)

Cone, Gifford A., et al. (See Rueppel, W., and Cone, assignors.)

Cone, Loris. (See Rueppel, W., and Cone.)

Conner, Charles E., Auburn, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-holding device. 1,695,321; Dec. 18.

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. 1,695,917; Dec. 18.

Conrader, Rudolph, Erie, Pa. Controlling mechanism for compressors. 1,695,368; Dec. 18.

Conradson, Prentice, Evansville, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Grinding machine. 1,695,759; Dec. 18.

Conradt, William F., Davenport, Iowa. Percolator top. 1,695,918; Dec. 18.

Corcoran, Edwin, Portland, Oreg. Stovepipe lock. 1,695,634; Dec. 18.

Cordley, Henry G., New York, N. Y. Water cooler. Des. 77,220; Dec. 18.

Coryell, William C., Youngstown, Ohio. Screw-down mechanism for rolling mills. 1,695,274; Dec. 18.

Cotterill, Robert L., Philadelphia, Pa. Dishwasher. 1,695,412; Dec. 18.

Coulston, Earl V., Shaker Heights, Ohio. Cooking vessel. 1,695,995; Dec. 18.

Coyne, Edward J., Brooklyn, N. Y. Door spring. 1,695,454; Dec. 18.

Crane & Breed Manufacturing Company, The. (See Blesch, Charles, assignor.)

Creamer, Edgar R., assignor to The George R. Carter Company, Connersville, Ind. Window molding for automobiles. 1,695,682; Dec. 18.

Crichton, Leslie N., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Protective system. 1,695,885; Dec. 18.

Crockett, William P., Chicago, Ill. Electric-light fixture. 1,695,413; Dec. 18.

Crompton & Knowles Loom Works. (See Cederlund, Albert, assignor.)

Crompton & Knowles Loom Works. (See Hollingworth, Edward, assignor.)

Crompton & Knowles Loom Works. (See Jacob, Elmer, assignor.)

Crompton & Knowles Loom Works. (See Jennings, Victor H., assignor.)

Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)

Crompton & Knowles Loom Works. (See Regan, John, assignor.)

Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)

Crompton & Knowles Loom Works. (See Turner, Richard G., assignor.)

Crompton & Knowles Loom Works. (See Unwin, Kenneth J., assignor.)

Crompton & Knowles Loom Works. (See Wakefield, Walter H., assignor.)

Cross, Walter M., Kansas City, Mo., assignor, by mesne assignments, to Gasoline Products Company, Inc., Wilmington, Del. Treating petroleum oils. 1,696,030; Dec. 18.

Crowley, Joseph P., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Valve. 1,695,536; Dec. 18.

Culp, John W., Johnstown, Pa. Mechanical game toy. 1,695,683; Dec. 18.

Cunningham, Philip J., New York, N. Y. Power transmission. 1,695,951; Dec. 18.

Curcuruto, Philip. (See Orszag, L., and Curcuruto.)

Curin, Joseph, Chicago, Ill. Face plate. Des. 77,221; Dec. 18.

Dahlgren, Bror E., Chicago, Ill. Bookrest. Des. 77,224; Dec. 18.

Danly Machine Specialties, Inc. (See Danly, Philo H., assignor.)

Danly, Philo H., assignor to Danly Machine Specialties, Inc., Chicago, Ill. Drawing template for die sets. 1,696,140; Dec. 18.

Dann, Walter M., and L. H. Hill, Sharon, and E. F. Sipher, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Tap-changer system. 1,695,886; Dec. 18.

Danz, Emil, New York, N. Y. Flowerpot holder. Des. 77,225; Dec. 18.

Daun, Carl L., assignor, by mesne assignments, to American Electric Motor Company, Milwaukee, Wis. Producing integral bar windings in the rotors of electric motors. 1,695,799; Dec. 18.

Davis, Anthony E., Philadelphia, Pa. Tree holder. 1,695,275; Dec. 18.

Davis, Charles T., assignor to Davis & Geck, Inc., Brooklyn, N. Y. Surgical needle. 1,695,887; Dec. 18.

Davis & Furber Machine Company. (See Howes, Irving C., assignor.)

Davis & Geck, Inc. (See Davis, Charles T., assignor.)

Davis, Harry A., assignor to Draper Corporation, Hopedale, Mass. Cloth-cutting attachment for looms. 1,696,155; Dec. 18.

Davis, Kenneth, St. Benedict, Pa., assignor, by mesne assignments, to Peale-Davis Company, Wilmington, Del. Mechanism and process for separating intermixed divided materials. 1,695,369; Dec. 18.

Davis, Robert, and I. Tapman, Brooklyn, N. Y. Shoe shank. 1,695,996; Dec. 18.

Davis, Robert L. (See Little, D. G., and Davis.)

Dawson, Arthur T., and G. T. Buckham, Westminster, London, England, assignors to United States Ordnance Company, Washington, D. C. Ordnance breech mechanism. 1,695,728; Dec. 18.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Breech-loading ordnance. 1,695,841; Dec. 18.

Dawson, Arthur T., G. E. Watt, and A. L. Perham, assignors to Vickers Limited, Westminster, London, England. Means for use in the laying of ordnance. 1,695,483; Dec. 18.

Day, Harold K. (See Day, John W. and H. K.)

Day, J. H., Company, The. (See Kirchhoff, William G., assignor.)

Day, J. H., Company, The. (See Moores, Joel, assignor.)

Day, John W. and H. K., Pocatello, Idaho. Combined water bag and food cooler. 1,696,138; Dec. 18.

Day, William H., East Haven, Conn., assignor, by mesne assignments, to Remington Rand Inc., New York, N. Y. Index or file. 1,695,322; Dec. 18.

Dayton Steel Racquet Company, The. (See Larned, William A., assignor.)

Dean, Horace, assignor of one-half to T. Lloyd, Laurier, Manitoba, Canada. Hook. 1,696,077; Dec. 18.

De Forest, Lee, New York, N. Y., assignor to De Forest Phonofilm Corporation. Talking-moving-picture machine. 1,695,414; Dec. 18.

De Forest, Lee, assignor to De Forest Phonofilm Corporation, New York, N. Y. Talking-moving-picture record. 1,695,415; Dec. 18.

De Forest Phonofilm Corporation. (See de Forest, Lee, assignor.)

De Forest Radio Telephone & Telegraph Co. (See Holborn, Frederick, assignor.)

De La Mare, Thomas, Salt Lake City, Utah. Repairing pipes. Re17,166; Dec. 18.

Delco-Light Company. (See Buvinger, G. A., and Warner, assignors.)

Delco-Light Company. (See Starr, Frank F., assignor.)

De-Lite-Us Spring Clasp Corporation, The. (See Fridolph, John S., assignor.)

De Long, Frederic T., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam structure. 1,695,416; Dec. 18.

Delpech, Jacques, Rennes, France. Apparatus for the manufacture of artificial filaments. 1,695,455; Dec. 18.

Dennis, John E., London, Ontario, Canada. Metal window construction. 1,695,576; Dec. 18.

De Pascal, Vincent, Marseille, France. Ring for a shoe heel or similar article. Des. 77,226; Dec. 18.

De Ruvo, Joseph, New York, N. Y. Heating apparatus. 1,696,078; Dec. 18.

Design Laboratories, Incorporated. (See Wilson, Edwin B., assignor.)

Des Moines Silo & Manufacturing Company. (See Lydon, Patrick C., assignor.)

Dever, Bernard J., Oakland, Calif. Self-raising seat. 1,695,800; Dec. 18.

Dewhurst, William, Methuen, Mass. Electric stopping device for stretching machines. 1,696,109; Dec. 18.

Diamond, James E., Mount Vernon, N. Y., assignor to The Cleveland Trust Company, Cleveland, Ohio. Piston. 1,695,417; Dec. 18.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Element support for electric stoves. 1,695,801; Dec. 18.

Dickinson, Harry S. (See Berry, B. C., and Dickinson.)

Diescher, Samuel E., assignor to S. Diescher & Sons, Pittsburgh, Pa. Piercing mill. 1,695,323; Dec. 18.

Diescher, S., & Sons. (See Diescher, Samuel E., assignor.)

Dietzgen, Eugene, Company. (See Langsner, Adolph, assignor.)

Direct-Control Valve Company. (See Lawler, James J., assignor.)

Döbele, Otto, Constance, Germany. Dental plate with sucker. 1,696,110; Dec. 18.





Dodge, William G., Newburyport, assignor to United Shank & Findings Company, Boston, Mass. Turn shoe and shank stiffener therefor. 1,695,577; Dec. 18.

Dodge, William G., Newburyport, assignor to United Shank & Findings Company, Boston, Mass. Manufactuer of turn shoes. 1,695,578; Dec. 18.

Donley, Harold B., assignor to The John W. Brown Mfg. Co., Columbus, Ohio. Vehicle head lamp. 1,696,111; Dec. 18.

Doolin, Charles B., San Antonio, Tex. Measuring and dispensing receptacle. 1,696,079; Dec. 18.

Dorrance, David W., Minneapolis, Minn. Artificial hand. 1,695,952; Dec. 18.

Dougan, Leland S. (See Singelton, John A., assignor.)

Dougherty, George, assignor to Economy Glass Company, Morgantown, W. Va. Goblet. Des. 77,227; Dec. 18.

Dowdey, Landon A., Washington, D. C. Rotary internal-combustion engine. 1,695,888; Dec. 18.

Dräger, Alexander B. (See Schröder, Hans W. C., assignor.)

Dräger, Alexander B., deceased, Lubeck, Germany; E. Dräger, née Stange, executrix. Self-contained lung-power breathing device. 1,695,537; Dec. 18.

Dräger, Elfriede, née Stange, executrix. (See Dräger, Alexander B.)

Dräger, Elfriede, née Stange, executrix. (See Schröder, Hans W. C.)

Draggie, John, Pittsburgh, Pa. Toothpick holder. 1,696,080; Dec. 18.

Drake, John L., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Treating glass. 1,695,538; Dec. 18.

Draper Corporation. (See Davis, Harry A., assignor.)

Draper Corporation. (See Kearsley, Richard A., assignor.)

Draughon, William H., Detroit, Mich. Calendar. 1,695,539; Dec. 18.

Drenning, Percy R., assignor to T. H. Symington & Son, Inc., Baltimore, Md. Bolster with absorption mechanism. 1,695,456; Dec. 18.

Dreux, Alexander H., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Container. 1,695,802; Dec. 18.

Dreyer, John F., jr., Brooklyn, N. Y., assignor to Hazeltine Corporation. Wave signaling system. 1,695,842; Dec. 18.

Duerr, Philip F., South Bend, Nebr. Corn husker. 1,695,324; Dec. 18.

Duffield, Thomas L., Orient, Wash. Road scraper. 1,695,635; Dec. 18.

Duncan Electric Manufacturing Company. (See Harris, Jesse, assignor.)

Duncan, Merritt E., Atlanta, Ga. Automatic pen-setting attachment. 1,695,457; Dec. 18.

Dunlop Tire and Rubber Corporation of America. (See Willshaw, Harry, assignor.)

Du Pont Viscoloid Company. (See Stacey, Charles E., assignor.)

Durham, Joseph, Rozelle, near Sydney, New South Wales, Australia. Resilient mounting for the stylus holder of talking machines. 1,695,418; Dec. 18.

Duro Company, The. (See Eisenhauer, Charles P., assignor.)

Duryea, Paul G., Trenton, N. J., assignor to Woodward-Wanger Company, Philadelphia, Pa. Bathroom fixture. Des. 77,228; Dec. 18.

Dusseau, Maurice G., Allston, Mass. Wheel assembly. 1,695,579; Dec. 18.

Dwyer, James P. (See McCormick, F. H., and Dwyer.)

Eames, George M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Supporting structure for power tables. 1,695,419; Dec. 18.

Eaton Axle & Spring Company, The. (See Veale, George W., assignor.)

Eaton, Leslie E., assignor of one-half to C. E. Griffin, Kansas City, Mo. Swaging machine for artificial dentures. 1,695,684; Dec. 18.

Eckert, Anton, Pittsburgh, Pa. Potato peeler. 1,695,420; Dec. 18.

Economy Glass Company. (See Dougherty, George, assignor.)

Eder, John, Philadelphia, Pa. Automatic ejector for bottle-labeling machines. 1,695,325; Dec. 18.

Edmundson, Ruben E., St. Joseph, Mo. Combined coat and trousers hanger. 1,695,580; Dec. 18.

Edquist, Einar, Chicago, Ill. Vacuum bottle. 1,695,540; Dec. 18.

Eichner, Robert F., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 77,222; Dec. 18.

Elmer, August, New York, N. Y. Electric pressure generator. 1,695,803; Dec. 18.

Eisenhauer, Charles P., Dayton, Ohio. Water-softener valve. 1,695,541; Dec. 18.

Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Water-softening apparatus. 1,695,542; Dec. 18.

Eisenhauer, Charles P., assignor to The Duro Company, Dayton, Ohio. Pump. 1,695,543; Dec. 18.

Electric Thermostatic Control Company, trustees of the. (See Goodhue, Julian G., assignor.)

Electropure Corporation. (See Templeton, John O., assignor.)

Elliott, Harry D. (See Glass, P. R., and Elliott.)

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Chemical product and making the same. 1,695,636; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company. Cement. 1,695,637; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Coating composition and making same. 1,695,638; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Liquid composition containing chlorinated rubber. 1,695,639; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company, New York, N. Y. Chlorinated rubber composition containing linseed oil. 1,695,640; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company. Stabilized chlorinated rubber. 1,695,641; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company. Varnish. 1,695,642; Dec. 18.

Ellis, Carleton, Montclair, N. J., assignor to Chadeloid Chemical Company. Artificial fiber and making same. 1,695,643; Dec. 18.

Ellis-Foster Company. (See Weber, Harry M., assignor.)

Ellis, Horace R., Meadville, Pa. Side extension for window screens. 1,696,081; Dec. 18.

Ellis, John H., Vancouver, British Columbia, Canada. Buck for clothes-pressing machines. 1,695,760; Dec. 18.

Engravograph Corporation, The. (See McKeown, S. C., and Bruckner, assignors.)

Ern, August F., Scarsdale, assignor to K. C. Seelbach Company, New York, N. Y. Pair of scissors. Des. 77,223; Dec. 18.

Essex Rubber Company. (See Hoopes, Penrose R., assignor.)

Evans, Earl R., Great Barrington, Mass. System of distribution. 1,696,177; Dec. 18.

Evers, William H., and J. W. Shimek, Lakewood, assignors to The R. C. Products Company, Cleveland, Ohio. Retaining-wall structure. 1,695,997; Dec. 18.

Faber, Merle F., Daly City, and J. Kneber, jr., Colma, Calif. Frame for photographic films. 1,695,644; Dec. 18.

Fain, Walter C., Norfolk, Va. Concealable furnishings. 1,695,870; Dec. 18.

Faris, Harold P., Chicago, assignor to Kroehler Manufacturing Company, Naperville, Ill. Upholstering. 1,695,581; Dec. 18.

Farley, John W., Cleveland, Ohio. Plate thimble for pipes. 1,695,645; Dec. 18.

Fayer, Charles, Flushing, N. Y., assignor to Wappler Electric Company, Inc. Self-starting synchronous induction motor. 1,695,484; Dec. 18.

Fayer, Charles, Flushing, N. Y., assignor to Wappler Electric Company, Inc. Electrosurgical apparatus. 1,695,485; Dec. 18.

Federal Phosphorus Company. (See Noble, Albert, assignor.)

Feild, Alexander L., Jackson Heights, N. Y., assignor to The Linde Air Products Company. Preheating the charge in shaft furnaces. 1,695,953; Dec. 18.

Feinberg, Allen A., Minneapolis, Minn., assignor to Arctic Nu-Air Corporation, Chicago, Ill. Ventilating apparatus. 1,695,804; Dec. 18.

Felde, Andrew L., Barnesville, Minn. Screen. 1,695,371; Dec. 18.

Fenninger, Carl W. (See Ives, Frederic E., assignor.)

Fenton, Paul E., Thomaston, assignor to Scovill Manufacturing Company, Waterbury, Conn. Floating-trim stud. 1,696,156; Dec. 18.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Pump or motor. 1,696,139; Dec. 18.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic blank holder. 1,696,140; Dec. 18.

Ferris, Walter, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic blank holder. 1,696,141; Dec. 18.

Field, Frank H., Jamestown, N. Y. Ice rug. 1,695,709; Dec. 18.

Finnen, William J., Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. 1,695,889; Dec. 18.

Firth-Sterling Steel Company. (See Comstock, Gregory J., assignor.)

Fishel, Robert G., Chicago, Ill. Combined display and vending cabinet. Des. 77,229; Dec. 18.

Flarsheim, Edwin S., assignor to The Liebel-Flarsheim Company, Cincinnati, Ohio. Spark gap. 1,696,157; Dec. 18.

Flemming, Walter, Ludwigshafen, and H. Klein, Mannheim, assignors to Silesia Verein Chemischer Fabriken Ida- und Marienhuette, Sarrau, Germany. Separation of mono- and dialkyl derivatives of aromatic amines. 1,695,372; Dec. 18.

Flicker, Annie, administratrix. (See Flicker, Louis.)

Flicker, Louis, deceased, Los Angeles, Calif.; A. Flicker, administratrix. Hat-renovating machine. 1,695,646; Dec. 18.

Flohr, Henry C., New York, and L. Ornstein, Brooklyn, N. Y. Surfacing element and manufacturing the same. 1,695,276; Dec. 18.

Folberth, Frederick G., and W. M., Cleveland, Ohio, assignors to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 1,695,326; Dec. 18.
Folberth, William M. (See Folberth, Frederick G. and W. M.)
Foley, Alma B., et al. (See Keck, Max, assignor.)
Foley, James J., et al. (See Keck, Max, assignor.)
Follansbee Brothers Company. (See Kinter, C. W., and Manion, assignors.)
Forshee, Frank F. (See Sutherland, E. E., and Forshee.)
Forstner Chain Corporation. (See Kollmar, Reinhard, assignor.)
Forstrom, Edward E., Stratford, assignor to The Bryant Electric Company, Bridgeport, Conn. Electric relay. 1,696,082; Dec. 18.
Forsyth, Benjamin F., Chicago, Ill. Conveyer. 1,695,277; Dec. 18.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring instrument. 1,695,890; Dec. 18.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,695,891; Dec. 18.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transmission-line device. 1,695,892; Dec. 18.
Foster Machine Company. (See McKeen, John O., assignor.)
Francis, Evan J. (See Campbell, Earl F. B., assignor.)
Franklin Railway Supply Company. (See Vincent, Harry S., assignor.)
Fraser, Andrew, Croyden, England. Colloid mill. 1,696,083; Dec. 18.
Frayer, Lee A., Columbus, Ohio. Clutch mechanism for bar machines. 1,695,954; Dec. 18.
Frayer, Lee A., Columbus, Ohio. Blanking metallic articles. 1,695,955; Dec. 18.
Freeman, Michael N., Racine, Wis. Heating apparatus. 1,696,031; Dec. 18.
Freese, Frank G., Aldan, and R. C. Paxson, Llanerch, Pa. Rail anchor. 1,695,998; Dec. 18.
French Battery Company. (See Barany, Edmund R., assignor.)
French Oil Mill Machinery Co., The. (See Upton, Charles B., assignor.)
Frick, Chester A., assignor to Glascock Brothers Mfg. Company, Muncie, Ind. Bottle-dispensing refrigerator. 1,695,956; Dec. 18.
Fridolph, John S., assignor to The De-Lite-Us Spring Clasp Corporation, New York, N. Y. Pin wheel. Des. 77,230; Dec. 18.
Froelich, Clarence H., assignor to Bethlehem Steel Company, Bethlehem, Pa. Gun carriage. 1,695,685; Dec. 18.
Full View Windshield Wiper, Inc. (See Kuskin, David, assignor.)
Fulton Syphon Company, The. (See Bezzenberger, Fred K., assignor.)
Furler, Emil, Zurich, Switzerland. File, rasp, or like tool. 1,695,647; Dec. 18.
G. & G. Atlas Systems. (See Stoetzel, Joseph J., assignor.)
Gage, Walter C., Holyoke, Mass., assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Pump piston. 1,695,999; Dec. 18.
Gail, John F., Evanston, Ill., assignor to Simmons Company, New York, N. Y. Machine for slitting and folding fabric. 1,695,421; Dec. 18.
Gair, Robert, Company. (See Andrews, James M., assignor.)
Gallant, Hubert J. (See Pashigian, B., and Gallant.)
Garbell, Max, assignor, to Victor Adding Machine Company, Chicago, Ill. Card holder. 1,695,278; Dec. 18.
Gardner, Florinda, assignor of one-half to M. N. Mason, Tampa, Fla. Hanger. 1,696,084; Dec. 18.
Gardner, John E. (See White, T. U., and Gardner.)
Gardner Motor Company. (See Tilton, Webster, assignor.)
Gasoline Products Company. (See Cross, Walter M., assignor.)
Gatti, Joseph, assignor to Gatti Service Incorporated, New York, N. Y. Wadding and bat. 1,695,805; Dec. 18.
Gatti Service Incorporated. (See Gatti, Joseph, assignor.)
Gehe & Co. A.-G. (See Hesse, Erich, assignor.)
General Electric Company. (See Bergman, Sven R., assignor.)
General Electric Company. (See Townsend, George R., assignor.)
General Railway Signal Company. (See Leake, Richard C., assignor.)
George, James H., Orange, N. J. Metallic barrel. 1,696,112; Dec. 18.
Georgius, Henry C., Manning, Iowa. Runner attachment for farm implements. 1,695,710; Dec. 18.
Germain, Philip, jr., New York, N. Y. Display stand. 1,695,893; Dec. 18.
Gernsback, Hugo, New York, N. Y. Switch. 1,695,957; Dec. 18.
Getchell, Benjamin E., assignor to Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 1,695,958; Dec. 18.
Gibbs, Elmer W., assignor to The Gibbs Manufacturing Company, Canton, Ohio. Top. 1,695,486; Dec. 18.
Gibbs Manufacturing Company, The. (See Gibbs, Elmer W., assignor.)
Gibson, James R., Brooklyn, and T. M. Avery, Glens Falls, assignors to Union Bag and Paper Corporation, New York( N. Y. Shopping bag. 1,696,085; Dec. 18.
Gies, Frank G., assignor of one-half to L. Leszczynski, Detroit, Mich. Washing machine. 1,695,279; Dec. 18.
Giesecke, Hermann. (See Giesecke, Julius and H.)
Giesecke, Julius and H., Leipsig-Leutzsch, Germany. Apparatus for feeding paper sheets. 1,695,648; Dec. 18.
Giesecke, Julius and H., Leipzig-Leutzsch, Germany. Apparatus for feeding paper sheets. 1,695,649; Dec. 18.
Gilbert, James G. (See Grant, Patrick M., assignor.)
Gilchrist, David H. (See Musil, J., and Gilchrist.)
Gilkison, Edward R., Terre Haute, Ind. Auto camp trailer. 1,696,113; Dec. 18.
Gilmore, Charles B., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch. 1,695,544; Dec. 18.
Glascock Brothers Mfg. Company. (See Frick, Chester A., assignor.)
Glaser, Joseph P., assignor to Chamberlin Metal Weather Strip Company, Detroit, Mich. Ventilator. 1,696,000; Dec. 18.
Glaspey, Warren E., Bridgeton, N. J., assignor to Spring Stopper Company. Machine for making glass containers. 1,695,894; Dec. 18.
Glass, Perley R., Wayland, and H. D. Elliott, Beverly, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Marking machine. 1,695,582; Dec. 18.
Glidden, Arthur R., Seattle, Wash. Window-sash fastener. 1,695,729; Dec. 18.
Globe-Wernicke Company. (See Ringler, William A., assignor.)
Glover, Frank B., Brooklyn, N. Y. Engraving cutter head and depth gauge. 1,696,032; Dec. 18.
Goddard, Walter T., Hamilton, Ontario, Canada, assignor to Locke Insulator Corporation, Baltimore, Md. Insulator. 1,695,458; Dec. 18.
Godefroy, Alexandre F., St. Louis, Mo. Hair-curling device. 1,695,545; Dec. 18.
Godilliot, Edouard, assignor to R. Laraque, Paris, France. Pump and the like. 1,695,650; Dec. 18.
Goff, Madison L., Los Angeles, Calif. Signal arm for vehicles. 1,695,843; Dec. 18.
Goffin, Sydney F. H., St. Albans, England. Sheet-feeding mechanism. 1,696,114; Dec. 18.
Goldberg, Samuel and V., Baltimore, Md.; said V. Goldberg assignor to said S. Goldberg. Liquid receptacle. 1,695,583; Dec. 18.
Goldberg, Victor. (See Goldberg, Samuel and V.)
Goldsmith, Louis, Altoona, Pa. Electric sign. 1,695,895; Dec. 18.
Goldston, David C., assignor to Bystone Manufacturing Company, Cambridge Springs, Pa. Molding machine. 1,695,327; Dec. 18.
Gollomb, Herman, Brooklyn, N. Y. Tube compressor. 1,695,280; Dec. 18.
Goodhue, Julian G., Evanston, assignor to trustees of the Electric Thermostatic Control Company, Chicago, Ill. Thermostatic control of electric circuits and apparatus and other devices. 1,695,546; Dec. 18.
Goodwin, Edward W., Detroit, Mich. Combination automobile body hood, and fenders. Des. 77,231; Dec. 18.
Goodwin, Ernest G., Pelham, assignor to Standard Coupler Company, New York, N. Y. Draft gear. 1,696,115; Dec. 18.
Goodwin, Ernest G., Pelham, assignor to Standard Coupler Company, New York, N. Y. Wear plate. 1,696,116; Dec. 18.
Gordon, Walter A., Garden City, and J. J. Murphy and P. Perrone, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Adjustable reference book. 1,695,328; Dec. 18.
Gorton, William S., London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. 1,695,844; Dec. 18.
Gould, Leslie A., Bridgeport, Conn. Tuning device. 1,695,919; Dec. 18.
Government and the People of the United States of America. (See Bennett, Charles A., assignor.)
Gradick, Wiley N., assignor to Alex Woldert Company, Tyler, Tex. Nut-cracking machine. 1,695,651; Dec. 18.
Graffenberger, Friedrich, assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Plant cover. Des. 77,232; Dec. 18.
Graham, Leslie B., East Chicago, Ind., assignor to Union Metal Products Company, Chicago, Ill. Car-coupler-positioning device. 1,695,829; Dec. 18.
Gramarben Company, The. (See Holden, Benedict M., assignor.)
Grant, Clair R., assignor to O. D. Collis, Clinton, Iowa. Radiator and flywheel. 1,696,033; Dec. 18.
Grant, Patrick M., Chicago Ill., assignor of one-half to J. G. Gilbert. Fluid-pressure regulator. 1,695,330; Dec. 18.
Grasselli Dyestuff Corporation. (See Berliner, R., Stein, and Trautner, assignors.)
Grasselli Dyestuff Corporation. (See Hentrich, Winfrid, assignor.)
Grasselli Dyestuff Corporation. (See Wolfgram, A., and Greune, assignors.)
Great Western Electro Chemical Company. (See Hirschkind, W., and Schedler, assignors.)
Green, Sherwood, Berkeley, Calif. Drying apparatus. 1,695,652; Dec. 18.



Gregg Company, Limited, The. (See Gregg, Louis D., assignor.)
Gregg, Louis D., Hackensack, N. J., assignor to The Gregg Company, Limited, New York, N. Y. Car coupler. 1,695,281; Dec. 18.
Greune, Heinrich. (See Wolfram, A., and Greune.)
Griffin, Cedric E. (See Eaton, Leslie E., assignor.)
Grisdale, George W., and E. Schneider, assignors to Republic Flow Meters Company, Chicago, Ill. Electric meter. 1,695,422; Dec. 18.
Grohs, Josef, Vienna, Austria. Fixation device for rails with removable heads. 1,695,730; Dec. 18.
Grolemund, Lawrence A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Drawing sheet glass. 1,695,547; Dec. 18.
Groove Lock Co. Inc. (See Zeindlhofer, Anton, assignor.)
Grossman, Harold, Caldwell, N. J., assignor of one-fourth to W. S. Pritchard, New York, N. Y. Producing oiled pigments. 1,696,034; Dec. 18.
Grossmann, Marcus A. (See Langenberg, F. C., and Grossmann.)
Grover, Albert D., Long Island City, N. Y. Banjo rim. 1,695,282; Dec. 18.
Guimont, Joseph W., Lachine, Quebec, assignor to L. Lemieux, Montreal, Canada. Radiator. 1,695,959; Dec. 18.
Gunkel, Paul O., Welland, Ontario, Canada, assignor to Joseph Stokes Rubber Company, Trenton, N. J. Storage-battery case. 1,696,001; Dec. 18.
Gustafson, Carl H., Albert City, Iowa. Radiator guard. 1,695,584; Dec. 18.
Gutmann, Victor. (See Steiner, L., and Gutmann.)
Guy, Joseph E., Waynesboro, Pa. Sign. 1,696,117; Dec. 18.
Gyllenberg, Wallace W., Detroit, Mich. Printing chart. 1,695,423; Dec. 18.
Hanck, Walter J., Racine, Minn. Dispensing machine for bottled milk. 1,696,035; Dec. 18.
Hackworth, Jesse, and W. Kuehne, Ironton, Ohio; said Hackworth assignor to said Kuehne. Device for handling railroad ties. 1,695,960; Dec. 18.
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 1,695,331; Dec. 18.
Hadley, Art, assignor to The Hadley Company, Providence, R. I. Wrist-watch strap. 1,695,487; Dec. 18.
Hadley Company, The. (See Hadley, Art, assignor.)
Hadley Company, The. (See Tost, Charles R., assignor.)
Hall, Elbert J., assignor to Ruckstell Sales and Manufacturing Company, Berkeley, Calif. Change-speed axle. 1,695,585; Dec. 18.
Hall, Ernest A., and G. E. Burns, assignors to The Hall Manufacturing Company, Toledo, Ohio. Gas burner. 1,695,548; Dec. 18.
Hall, J. Sid. (See Morgan, William C., assignor.)
Hall Manufacturing Company, The. (See Hall, E. A., and Burns, assignors.)
Halleck, Frank A., Michigan City, Ind., assignor to Sullivan Machinery Company. Valve mechanism. 1,695,586; Dec. 18.
Hallock, George W., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Alloy base for oxide-coated cathodes. 1,695,845; Dec. 18.
Halpert, Max, New York, N. Y. Vegetable cabinet. Des. 77,233; Dec. 18.
Hamburg-Amerikanische Uhrenfabrik. (See Landenberger, Kurt, assignor.)
Hammerquist, Oscar W. (See Kristofek, F. J., and Hammerquist.)
Handy Governor Corporation. (See Welch, George R., assignor.)
Hanzlik, Henry J., Swarthmore, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine. 1,696,002; Dec. 18.
Harding, Leonard H., Brooklyn, N. Y. Liquid-level control. 1,695,846; Dec. 18.
Hardwick & Magee Company. (See Oakley, Alfred, assignor.)
Hardy, Ralph P., Ocean Springs, Miss. Nut grader and sorter. 1,696,086; Dec. 18.
Harmes, Edward, Wilkinsburg, Pa., assignor to New Process Multi-Castings Company. Molding machine. 1,695,921; Dec. 18.
Harper, Ray O., and R. C. Hitchin, Los Angeles, Calif. Sanitary toilet seat. 1,696,142; Dec. 18.
Harper, William D., Waltham, Mass. Vehicle body support. 1,695,373; Dec. 18.
Harris, Jesse, assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Totalizing mechanism. 1,696,087; Dec. 18.
Harris, John, Cleveland, Ohio, assignor of one-half to J. R. Rose, Edgeworth, Pa. Gaseous-fuel burner. 1,695,587; Dec. 18.
Harrison, Clifford E., assignor to American Engineering Company, Philadelphia, Pa. Stoker plunger. 1,696,088; Dec. 18.
Harrison, John, Roxbury, Mass. Camp convenience chair. 1,695,374; Dec. 18.
Harrison, Thomas N., jr., Littleton, N. C. Metallic milk bottle. 1,695,920; Dec. 18.
Harrison, Thomas R., assignor to The Brown Instrument Company, Philadelphia, Pa. Wheatstone-bridge meter system. 1,695,424; Dec. 18.
Harrison, Thomas R., assignor to Brown Instrument Company, Philadelphia, Pa. Circuit-controlling means. 1,695,488; Dec. 18.
Hart, Stephen H., assignor to Lord & Burnham Company, Irvington, N. Y. Combination gutter support for greenhouses. 1,696,158; Dec. 18.
Hart, Stephen H., assignor to Lord & Burnham Company, Irvington, N. Y. Combination outlet and gutter construction for greenhouse. 1,696,159; Dec. 18.
Hart, Stephen H., assignor to Lord & Burnham Company, Irvington, N. Y. Greenhouse combination outlet. 1,696,160; Dec. 18.
Hartnacke, Margaret T., Grand Rapids, Mich. Playing card. 1,695,425; Dec. 18.
Harvey, Walter J., Toronto, Ontario, Canada. Solar-heat-accumulating system. 1,696,003; Dec. 18.
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Spool-supporting means for tube frames. 1,696,161; Dec. 18.
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Tube frame. 1,696,162; Dec. 18.
Hathaway, Edgar F., Wellesley, assignor to Shawmut Engineering Company, Boston, Mass. Axminster tube frame. 1,696,163; Dec. 18.
Hausler, Joseph, Chicago, Ill. Adjustable arm rest for automobiles. 1,695,549; Dec. 18.
Hazeltine Corporation. (See Dreyer, John F., jr., assignor.)
Head, Drew, Chicago, Ill. Air conditioner. 1,695,426; Dec. 18.
Heald Machine Company, The. (See Conradson, Prentice, assignor.)
Heald Machine Company, The. (See Woytych, Ramond M., assignor.)
Heather, Frederick, Fulham, London, England. Exhaust silencer for internal-combustion or other engines. 1,695,375; Dec. 18.
Hecker, John H., Gardnerville, Nev. Cheese-curd knife. 1,695,761; Dec. 18.
Heefner, La Port W., Greensburg, assignor to Pennsylvania Rubber Company, Jeannette, Pa. Vehicle tire. Des. 77,234; Dec. 18.
Heeter, Joseph W., Butler, Pa. Oil saver for oil wells and packing screws therefor. 1,695,332; Dec. 18.
Heintz Edith R., Cincinnati, Ohio. Separable fastener. 1,696,118; Dec. 18.
Heinzman, Robert C., Cincinnati, Ohio. Reconditioning iron and steel drums. 1,696,036; Dec. 18.
Heisel, Ralph E., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Paper machinery. 1,696,119; Dec. 18.
Helfgott, Solomon, New York, N. Y. Perogen dough cutting and trimming tool. 1,695,427; Dec. 18.
Heller, Paul E., Newark, N. J. Golf club. 1,695,806; Dec. 18.
Heltzel, John N., Warren, Ohio. Automobile bumper. 1,695,653; Dec. 18.
Hendershot, N. W. (See Bergsten, John, assignor.)
Hentrich, Winfrid, Wiesdorf, near Cologne-on-the-Rhine, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Azo dyestuff and cellulose derivatives dyed therewith. 1,695,654; Dec. 18.
Herb, Otto J., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricant compressor. 1,695,588; Dec. 18.
Herrly, Clarence J., and A. M. Matheson, Niagara Falls, N. Y., assignors to Niacet Chemicals Corp. Material for tanning and making the same. 1,695,655; Dec. 18.
Hertzberg, Harry, Brooklyn, assignor to Morris Propp, New York, N. Y. Detachable electric-plug fitting. 1,695,847; Dec. 18.
Hess, Simon B., New York, N. Y. Door securer. 1,695,686; Dec. 18.
Hesse, Erich, Breslau, assignor to the firm Gehe & Co. A.-G., Dresden, Germany. Producing narcotics. 1,695,656; Dec. 18.
Heynacher, Walter. (See Mackenzie, John, assignor.)
Hewett George S., Corning, Calif. Curing ripe olives. 1,695,489; Dec. 18.
Hickok Manufacturing Company. (See Eichner, Robert F., assignor.)
Hickok Manufacturing Company. (See Mix, Edwin S., assignor.)
Higby, B. P. (See Swanberg, Arthur W., assignor.)
Higgins, John J., East Orange, N. J., assignor to Westinghouse Lamp Company. Gas economizer. 1,695,848; Dec. 18.
Higgins, William H. C., jr., assignor to Advance Ruinely Company, La Porte, Ind. Carburetor. 1,695,550; Dec. 18.
Hill, Leland H. (See Dann, W. M., Hill, and Sipher.)
Hill, N. G., Brass Co., The. (See Hill, Wyman N., assignor.)
Hill, Samuel, and J. Latvala, Tweoma, Mich. Furnace. 1,695,551; Dec. 18.
Hill, Wyman N., assignor to The N. N. Hill Brass Co., East Hampton, Conn. Wheeled toy. 1,695,333; Dec. 18.
Himmelright, Raleigh J., New York, N. Y., assignor to American Arch Company. Arch brick. 1,695,459; Dec. 18.

Hinchman, Alva K., Gloucester City, N. J., assignor to J. H. Malone, Drexel Hill, Pa. Automatic pressure-regulator valve. 1,696,143; Dec. 18.

Hinks, Fred L., Fort Dodge, Iowa. Rotatable sign. 1,695,589; Dec. 18.

Hirschkind, Wilhelm, Antioch, and C. W. Schedler, Berkeley, assignors to Great Western Electro Chemical Company, San Francisco, Calif. Producing hydrochloric acid synthetically. 1,695,552; Dec. 18.

Hitchin, Ralph C. (See Harper, R. O., and Hitchin.)

Hoagland, Frank O., Worcester, Mass. Backing-off device for cutters having angularly-disposed teeth. 1,695,762; Dec. 18.

Hobbs, Willis F., and J. A. Anderson, assignors to The Bridgeport Hardware Manufacturing Corporation, Bridgeport, Conn. Valve lifter. 1,695,490; Dec. 18.

Hochstetter, Frederick W. (See McCurdy, R. P., and Hochstetter.)

Hoe, R., & Co. (See Zuckerman, Adolph M., assignor.)

Hofstee, Albert C., The Hague, Netherlands. Apparatus for machining polygonal parts on ordinary lathes. 1,695,763; Dec. 18.

Hogland, Joseph L., assignor of one-half to H. P. Thomson, Kansas City, Mo. Vehicle body. 1,695,491; Dec. 18.

Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter. 1,695,492; Dec. 18.

Holborn, Frederick, Hackensack, assignor to De Forest Radio Telephone & Telegraph Co., Jersey City, N. J. Filament. 1,695,687; Dec. 18.

Holcomb, Russell S., Los Angeles, Calif. Hanging device for screens. 1,695,764; Dec. 18.

Holden, Benedict M., assignor to The Gramarben Company, Hartford, Conn. Drawer fastener. 1,695,896; Dec. 18.

Hol-Fast Bedlock Company. (See Howse, Philip M., assignor.)

Hollander, Charles S., Philadelphia, Pa., assignor to Rohm & Haas Company. Use of sulphoxylates for stripping dyes. 1,696,164; Dec. 18.

Hollingworth, Edward, Dobcross, England, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Regulating the tension of warps in looms for weaving. 1,695,376; Dec. 18.

Hollis, Robert H., Kamloops, British Columbia, Canada. Tongue and neck-yoke coupling. 1,695,731; Dec. 18.

Hollup, C. H., Corporation. (See Pennington, H. R., and Hollup, assignors.)

Hollup, Charles H. (See Pennington, H. R., and Hollup.)

Holmes, Edward C., Cincinnati, Ohio. Carriage for drilling mechanism. 1,695,493; Dec. 18.

Hooker, James E., Coral Gables, Fla. Shingle. 1,696,120; Dec. 18.

Hoopes, Penrose R., Hartford, Conn., assignor to Essex Rubber Company, Trenton, N. J. Trimming machine. 1,695,688; Dec. 18.

Hornberger, Earl J., assignor to J. G. Oliver, doing business as Bardons and Oliver, Cleveland, Ohio. Automatic chuck and roller feed. 1,696,037; Dec. 18.

Hotchkin, Paul M., Chicago, Ill. Bank-screen-lighting device. 1,695,283; Dec. 18.

Houghton, E. F., and Company. (See Langenberg, Frederick C., assignor.)

Howard, Kyle, et al. (See Wagoner, Samuel O., assignor.)

Hower, Harry C., Chicago, Ill. Automobile tire. Des. 77,235; Dec. 18.

Howes, Irving C., assignor to Davis & Furber Machine Company, North Andover, Mass. Hand card. 1,695,765; Dec. 18.

Howse, Philip M., assignor to Hol-Fast Bedlock Company, Nashville, Tenn. Side-rail fastener for beds. 1,695,961; Dec. 18.

Howse, Philip M., assignor to Hol-Fast Bedlock Company, Nashville, Tenn. Side-rail fastener for beds. 1,695,962; Dec. 18.

Huey, Helen T., Stonehurst, Pa. Window-curtain guard. 1,696,089; Dec. 18.

Hulander, Henry N., Brooklyn, N. Y. Sport rider. 1,695,689; Dec. 18.

Humason, Granville A., Houston, Tex. Swab. 1,695,494; Dec. 18.

Huyett, Daniel D., assignor to Atlas Powder Company, Wilmington, Del. Wire folding and cutting machine. 1,696,121; Dec. 18.

Hymans, Frederick, Yonkers, N. Y., and C. T. Westlin, Westfield, N. J., assignors to Otis Elevator Company, New York, N. Y. Elevator platform. 1,695,690; Dec. 18.

Hyndman, Peter, Balcarres, Saskatchewan, Canada. Wagon seat. 1,695,732; Dec. 18.

I. G. Farbenindustrie Aktiengesellschaft. (See Schirmacher, K., Stolz, Schlichenmaier, and Krohs, assignors.)

Ideal Electric & Manufacturing Company. (See Schou, Theodor, assignor.)

Ikofsky, Benjamin, Brooklyn, and J. Josephs, Bronx, N. Y. Shape-retaining packing device. 1,695,495; Dec. 18.

Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)

Indiana Lamp Corporation. (See Albright, Edward C., assignor.)

Indiana Lamp Corporation. (See Neuner, Frederick W. C., assignor.)

Ingersoll-Rand Company. (See Redfield, Snowden B., assignor.)

Insley, Birddine T., Stockton, Calif. Reversible tractor transmission. 1,695,849; Dec. 18.

Intercontinental Rubber Company. (See Yeandle, William H., assignor.)

International Combustion Engineering Corporation. (See Kreisinger, Henry, assignor.)

International Harvester Company. (See Benjamin, B. R., Raney, and Webber, assignors.)

International Harvester Company. (See Cady, Sherman W., assignor.)

International Harvester Company. (See Pearson, Charles, assignor.)

International Harvester Company. (See Smith, Daniel W., assignor.)

International Harvester Company. (See Sturrock, John, assignor.)

International Motor Company. (See Robbins, Azor D., assignor.)

International Shoe Company. (See Ballard, Harrie A., assignor.)

International Spotlight Corporation. (See Sklarek, Clifford, assignor.)

Intertype Corporation. (See Barber, Frank E., assignor.)

Ives, Frederic E., assignor to C. W. Fenninger, Philadelphia, Pa. Color photograph or film and producing same. 1,695,284; Dec. 18.

Iwanicki, Joseph, Detroit, Mich. Toothpick distributor. 1,695,460; Dec. 18.

Jackson, Henry M. (See Mingle, W., and Jackson.)

Jackson, Joseph G., assignor to Edward Katzinger Company, Chicago, Ill. Baking pan. 1,696,004; Dec. 18.

Jacob, Elmer, North Adams, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Device to prevent unwinding of yarn from bobbins. 1,695,878; Dec. 18.

Jacobi, Edward N., assignor, by mesne assignments, to Briggs & Stratton Corporation, Milwaukee, Wis. Automobile instrument panel. Des. 77,236; Dec. 18.

Jacques, Raynaldo P., Woonsocket, R. I., assignor to Adams Industries, Inc., New York, N. Y. Making grease cups. 1,695,496; Dec. 18.

Jaeger, Alphons O., and J. A. Bertsch, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of sulphur dioxide. 1,695,285; Dec. 18.

James, William B., assignor to A. H. Aarons, Los Angeles, Calif. Dial telephone locking device. 1,696,038; Dec. 18.

Jandus, Herbert S., and C. E. Rasmussen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. Des. 77,238; Dec. 18.

Jandus, Herbert S., and N. Van Husen, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Mask plate for vehicle bumpers. Des. 77,237; Dec. 18.

Jarboe, Thomas, San Francisco, Calif. Hot plate. 1,695,711; Dec. 18.

Jenkins, Charles F., Washington, D. C. Light-converging-lens system. 1,695,980; Dec. 18.

Jennings, Arthur J. (See Vogel, J. A., and Jennings.)

Jennings, Victor H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slip weft detector for looms. 1,695,377; Dec. 18.

Jensen, Edith C., San Francisco, Calif. Stage garment. 1,695,590; Dec. 18.

Jester, John R. (See Clark, A. T., Leonhauser, and Jester.)

Johnson, Albert C., Chicago, Ill. Can. 1,695,286; Dec. 18.

Johnson, Chester W., Allston, assignor, by mesne assignments, to The A. L. Smith Iron Works, Chelsea, Mass. Traffic signal. 1,695,712; Dec. 18.

Johnson, Joseph A., Weston, Mass. Detachable hook for roof ladders. 1,695,428; Dec. 18.

Johnson, William V., Washington, D. C. Bookholder. 1,695,767; Dec. 18.

Johnston, Wayburn E., Minneapolis, Minn. Vacuum torch. 1,695,334; Dec. 18.

Jones, Alvin, Fort Benton, Mont. Valve-spring compressor. 1,696,090; Dec. 18.

Jones, Francis D. (See Jones, Frances E., and F. D.)

Jones, Frances E., San Diego, Calif., and F. D. Jones, Helena, Mont. Toy building block and wall construction. 1,695,553; Dec. 18.

Josephs, Julius. (See Ikofsky, B., and Josephs.)

Judd, Earle S., and R. Russo, Southington, Conn. Paperhanger's board. 1,695,766; Dec. 18.

Juhasz, Kalman, Hamburg-Wandsbeck, Germany. Pressure indicator. 1,695,591; Dec. 18.

Kalm, Edmund, assignor to J. Koenig, Jersey City, N. J. Niche. Des. 77,239; Dec. 18.

Kalgren, John E., assignor to J. R. Clark Company, Minneapolis, Minn. Extension-ladder-assembling machine. 1,695,461; Dec. 18.

Kane, Thomas H., assignor to Truscon Steel Company, Youngstown, Ohio. Joist. 1,696,039; Dec. 18.

Kartzmark, Otto, West Haven, Conn. Kitchen towel rack. 1,695,429; Dec. 18.

Kasdan, Nathan, New York, and D. Pollack, Brooklyn, assignors to Majestic Metal Specialties, Inc., New York, N. Y. Vanity case. 1,695,287; Dec. 18.

Kates, Willard A., Philadelphia, Pa. Phase indicator and determining the phase relation of alternating currents. 1,695,850; Dec. 18.





Katzinger, Edward, Company. (See Jackson, Joseph G., assignor.)

Kaufman, Frederick B., Philadelphia, Pa. Combination cabinet. 1,695,335; Dec. 18.

Kawneer Company, The. (See Toney, Edward, assignor.)

Kearfott Engineering Company. (See Kraemer, Waldo L., assignor.)

Kearsley, Richard A., Milford, assignor to Draper Corporation, Hopedale, Mass. Stop motion for twisters. 1,696,165; Dec. 18.

Keck, Alwine, et al. (See Keck, Max, assignor.)

Keck, Christian, administrator. (See Keck, Max.)

Keck, Martha, et al. (See Keck, Max, assignor.)

Keck, Max, deceased; C. Keck, administrator, assignor of one-eighth each to A. Keck, Kenton County, Ky., J. J. Foley and A. B. Foley, Cincinnati, Ohio, and M. Keck, and one-fourth to J. J. Stevee, Kenton County, Ky. Vehicle suspension. 1,695,379; Dec. 18.

Kégresse, Adolphe, Paris, France. Traction-increasing device for endless flexible track belts. 1,695,657; Dec. 18.

Kehl, Robert J., Chicago, Ill., assignor to Oxweld Acetylene Company. Blowpipe nozzle. 1,696,091; Dec. 18.

Kehl, Robert J., Chicago, Ill., assignor to Oxweld Acetylene Company. Multiple-flame blowpipe nozzle. 1,696,092; Dec. 18.

Kell, Francis, & Son, Inc. (See Staedell, Felix, assignor.)

Kellogg, Carl A. (See Caplinger, John D., assignor.)

Kellogg, Frank P. (See Redfield, John H., assignor.)

Kelly, Richard S., Jersey City, N. J. Window sash. 1,695,768; Dec. 18.

Kelsey-Hayes Wheel Corporation. (See Booth, William N., assignor.)

Kelso, William, assignor to The McConway & Torley Company, Pittsburgh, Pa. Car coupler. 1,696,040; Dec. 18.

Kenyon, William C., assignor to The Atwood Vacuum Machine Company, Rockford, Ill. Manufacturing covered-joint hinges. 1,695,288; Dec. 18.

Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Slide buckle. 1,696,166; Dec. 18.

Kersten, Carl C. E., Columbus, Ga. Scum trap. 1,695,851; Dec. 18.

King, Rufus, Plainville, assignor to Bugbee & Niles Co., North Attleboro, Mass. Watch-bracelet clasp. 1,696,167; Dec. 18.

Kinney, Le Baron W., Cleveland, and G. H. Bierman, East Cleveland, assignors to The White Motor Company, Cleveland, Ohio. Heat treating steel. 1,695,922; Dec. 18.

Kinter, Charles W., and C. H. Manion, Follansbee, W. Va., assignors to Follansbee Brothers Company, Pittsburgh, Pa. Plate reversing and cooling mechanism. 1,695,923; Dec. 18.

Kintner, Samuel M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Television apparatus. 1,695,924; Dec. 18.

Kinzie, Charles J. (See Barton, L. E., and Kinzie.)

Kirchhoff, William G., assignor to The J. H. Day Company, Cincinnati, Ohio. Combined blending and sifting device. 1,696,093; Dec. 18.

Kirchhoff, William G., assignor to The J. H. Day Company, Cincinnati, Ohio. Stuffing box and bearing structure. 1,696,094; Dec. 18.

Kishaw, Michale, Detroit, Mich. Vehicle radiator cover. Des. 77,240; Dec. 18.

Klein, Benjamin F., Cleveland, Ohio. Combination lighting fixture and support for loud-speaker units. Des. 77,241; Dec. 18.

Klein, Hans. (See Flemming, W., and Klein.)

Kleinman, Jacob L., New York, N. Y. Top. 1,695,807; Dec. 18.

Klinger, James D., Detroit, Mich. Agent for cleaning and imparting rust-inhibitive properties to steel. 1,695,430; Dec. 18.

Knapp, Clayton W., Cleveland, Ohio. Sachet device. Des. 77,243; Dec. 18.

Knapp, Clayton W., Cleveland, Ohio. Sachet device. Des. 77,244; Dec. 18.

Knappe, Paul A., Santa Rosa, Calif. Combined hammock seat and frame. Des. 77,242; Dec. 18.

Knowlton, John A., trustee. (See Knowlton, John A., assignor.)

Knowlton, John A., Dorchester, assignor to said Knowlton, trustee for Universal Tide Power Co., Boston, Mass. System for developing power from tides. 1,695,733; Dec. 18.

Knoxville Glove Company. (See Kyle, Arch, assignor.)

Koenig, Jacob. (See Kalm, Edmund, assignor.)

Koeniger, Karl W., Orange, N. J., assignor, to The Turner Tanning Machinery Company, Portland, Me. Hide setting-out and oiling machine. 1,695,963; Dec. 18.)

Kohlhaas, George N., Elmira, N. Y. Micrometer. 1,695,336; Dec. 18.

Kolisch, Paul. (See Aldendorff, Fritz, assignor.)

Kolitsch, August, Port Alfred, Quebec, Canada. Feed control of paper-making machines and apparatus therefor. 1,695,380; Dec. 18.

Kollmar, Reinhard, assignor to Forstner Chain Corporation, Irvington, N. J. Chain. 1,695,462; Dec. 18.

Kothé, Charles A., Meadville, Pa. Removing sludge from boilers. 1,695,005; Dec. 18.

Kresmer, Waldo L., Brooklyn, N. Y., assignor to Kearfoot Engineering Company, Inc. Window opener. 1,695,691; Dec. 18.

Kreisinger, Henry, Pierpont, assignor to International Combustion Engineering Corporation, New York, N. Y. Pulverized-fuel-feeding apparatus. 1,695,692; Dec. 18.

Kreutzberg, Otto A., Lake Bluff, Ill. Carburetor for powdered coal. 1,696,041; Dec. 18.

Kristek, George H., Ellinger, Tex. Cotton-seed-loading device. 1,696,042; Dec. 18.

Kristofek, Frank J., and O. W. Hammerquist, assignors to Brown & Bigelow, St. Paul, Minn. Automatic calendar stitcher. 1,695,897; Dec. 18.

Kroehler Manufacturing Company. (See Faris, Harold P., assignor.)

Krohs, Walter. (See Schirmacher, K., Stolz, Schlichenmaier, and Krohs.)

Kromer, George J., Milwaukee, Wis. Garment fastener. 1,695,592; Dec. 18.

Kropf, Frank, Wamego, Kans. Wall. 1,696,043; Dec. 18.

Krupp, Leo A., assignor to The Star Drilling Machine Company, Akron, Ohio. Tractor steering control for revolving excavators or cranes. 1,696,168; Dec. 18.

Kuehne, William. (See Hackworth, J., and Kuehne.)

Kusber, Joseph, jr. (See Fabor, M. F., and Kusber.)

Kuskin, David, New York, N. Y., assignor to Full View Windshield Wiper, Inc. Windshield wiper. 1,696,044; Dec. 18.

Kyle, Arch, assignor to Knoxville Glove Company, Knoxville, Tenn. Glove. 1,696,095; Dec. 18.

L. & R. Company, The. (See Lipschutz, David, assignor.)

Lach, Joseph S., Bridgeport, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Locking device. 1,696,045; Dec. 18.

Ladislaus, Henry R., Los Angeles, Calif. Composition of matter. 1,695,693; Dec. 18.

Laemmel, Charles A., assignor to Atlantic Service Company, Inc., Brooklyn, N. Y. Plate for meat-grinding machines. 1,695,898; Dec. 18.

Lalliberte, Joseph H., Nashua, N. H., assignor to Nashua Manufacturing Company, Boston, Mass. Wind-down mechanism for spinning frames. 1,695,713; Dec. 18.

La Montagne Patrick P., Bourbonnais, assignor, by mesne assignments, to Pope Machine Company, Kankakee, Ill. Knitting machine. 1,695,734; Dec. 18.

Land, Charles H., Detroit, Mich. Hydraulic-controlled trailer leg. 1,695,497; Dec. 18.

Landenberger, Kurt, assignor to Hamburg-Amerikanische Uhrenfabrik, Schramberg, Germany. Savings clock. 1,695,593; Dec. 18.

Lang, George H., Boston, Mass. Printing machine. 1,695,964; Dec. 18.

Langbein, John, Hamburg, Germany. Composition to be added to cement mixings for cold glazes or the like. 1,695,808; Dec. 18.

Lange, Henry, Quincy, Ill. Heater. 1,695,658; Dec. 18.

Langenberg, Frederick C., Watertown, Mass., assignor to E. F. Houghton and Company, Philadelphia, Pa. Carburizer. 1,695,337; Dec. 18.

Langenberg, Frederick C., Watertown, Mass., assignor to E. F. Houghton and Company, Philadelphia, Pa. Carburizer. 1,695,338; Dec. 18.

Langenberg, Frederick C., New York, N. Y., and M. A. Grossmann, Canton, Ohio. Steel and making the same. 1,695,594; Dec. 18.

Langsner, Adolph, assignor to Eugene Dietzgen Company, Chicago, Ill. Stopper for india-ink bottles and the like. 1,696,006; Dec. 18.

Laraque, Roland. (See Godillot, Edouard, assignor.)

Larned, William A., Summit, N. J., assignor to The Dayton Steel Racquet Company, Dayton, Ohio. Elastic metal stringing and making the same. 1,695,595; Dec. 18.

Larrabee, John H., Washington, D. C. Compensating apparatus for pantographs. 1,695,381; Dec. 18.

Lasker, William W., and C. A. Mezger, Brooklyn, assignors, by mesne assignments, to Remington Rand Inc., New York, N. Y. Contact mechanism for typewriter-key punches. 1,695,965; Dec. 18.

Latvala, Juha. (See Hill, S., and Latvala.)

Lawler, James J., Mount Vernon, assignor to Direct-Control Valve Company, New York, N. Y. Automatic heat-controlling regulator. 1,695,809; Dec. 18.

Lawlor, John J., Plainfield, N. J., assignor to New Process Multi-Castings Company. Molding machine. 1,695,925; Dec. 18.

Lawyer, Frank W., Placerville, Calif. Distributor attachment for oil cans. 1,696,046; Dec. 18.

Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Train-control relay. 1,696,169; Dec. 18.

Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Engine relay. 1,696,170; Dec. 18.

Leathers, Ward, Haworth, N. J., assignor, by mesne assignments, to Radio Corporation of America. Radio-phonograph combination. 1,695,852; Dec. 18.

Le Bus, George F., Electra, Tex. Sand-tester pump. 1,696,096; Dec. 18.

Lee Engineering Research Corporation. (See Lee, Royal, assignor.)

Lee, Royal, assignor to Lee Engineering Research Corporation, Milwaukee, Wis. Hydraulic transmission. 1,695,289; Dec. 18.

Leet, Lynn T., Montreal, Quebec, Canada. Liquid-vending machine. 1,695,735; Dec. 18.

Leff, Saul, New York, N. Y. Shape-retaining device for hats. 1,695,200; Dec. 18.

Lemieux, Ludger. (See Guimont, Joseph W., assignor.)
Leonhauser, Henry A. (See Clark, A. T., Leonhauser, and Jester.)
Leszczynski, Leonard. (See Gies, Frank G., assignor.)
Levinsky, Jacob, assignor to Capital Caps Limited, Toronto, Ontario, Canada. Motoring cap. 1,695,596; Dec. 18.
Levy, Mark. (See Travis, Bertram C., assignor.)
Lewis, Charles B., and E. D. Robertson, Los Angeles, Calif. Relief valve for deep-well pumps. 1,696,007; Dec. 18.
Libbey-Owens Sheet Glass Company, The. (See Amsler, Walter O., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Brownlee, William K., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Crowley, Joseph P., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Drake, John L., assignor.)
Libbey-Owens Sheet Glass Company, The. (See Grolemund, Lawrence A., assignor.)
Libert, Arthur J., Green Bay, Wis. Turret attachment for lathes. 1,695,926; Dec. 18.
Liebel-Flarsheim Company, The. (See Flarsheim, Edwin S., assignor.)
Lieberman, Joseph, Bayonne, N. J. Lamp standard. Des. 77,245; Dec. 18.
Lincoln, Rollo B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-control system. 1,695,853; Dec. 18.
Lincoln Scale Corporation. (See Burke, Robert J., assignor.)
Linde Air Products Company, The. (See Feild, Alexander L., assignor.)
Link-Belt Company. (See Pierce, Harold S., assignor.)
Linley, Fred H., Duluth, Minn. Combustion control in steam-boiler furnaces. 1,695,431; Dec. 18.
Lipschutz, David, assignor to The L. & R. Company, Louisville, Ky. Display and vending device. 1,695,463; Dec. 18.
Lipsius, Samuel, New York, N. Y. Automatic powdering machine. 1,696,171; Dec. 18.
Liquo-Gas Company. (See Wood, James A., assignor.)
Little, Donald G., Edgewood, and R. L. Davis, Pittsburgh, Pa., assignors to Westinghouse Electric and Manufacturing Company. Radio system. 1,695,966; Dec. 18.
Lloyd, Thomas. (See Dean, Horace, assignor.)
Lochhead, Andrew, Oakland, Calif. Nail-holding attachment for hammers. 1,695,339; Dec. 18.
Locke Insulator Corporation. (See Goddard, Walter T., assignor.)
Loewenbach, Hugo, Milwaukee, Wis. Mask. Des. 77,246; Dec. 18.
Lord & Burnham Company. (See Hart, Stephen H., assignor.)
Lorenz-Zeiss-Zugsicherungs-G. m. b. H. (See Bäseler, Wolfgang, assignor.)
Loring, Joseph B. (See Moore, W. D., Loring, and Bowers.)
Lovejoy, Arthur W., Lowell, Mass. Toilet-paper holder. 1,695,432; Dec. 18.
Ludwig, William C., Chillicothe, assignor to The Mead Pulp & Paper Company, Dayton, Ohio. Apparatus and method for packaging paper. 1,696,008; Dec. 18.
Lydon, Patrick C., assignor to Des Moines Silo & Manufacturing Company, Des Moines, Iowa. Agitator for feeders. 1,695,927; Dec. 18.
Lyjak, Wladyslaw, Braddock, Pa. Necktie stretcher. 1,695,927; Dec. 18.
Lyon, Harry, Brockton, assignor to J. A. Barbour, Brookline, and P. E. Barbour, Quincy, doing business as a copartnership under the name and style of Barbour Welting Company, Brockton, Mass. Welt and method of making. 1,695,967; Dec. 18.
Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass. Beaded welting. 1,695,968; Dec. 18.
Lyon, Harry, Holbrook, assignor to P. E. Barbour, Quincy, Mass. Reverse welting and method of making. 1,695,969; Dec. 18.
Lyon, Harry, Holbrook, Mass., assignor to P. E. Barbour, Quincy, Mass., doing business as Barbour Welting Company. Welting and making the same. 1,695,970; Dec. 18.
Macallen Company, The. (See McCarthy, Louis, assignor.)
MacClain, Edwin K., Houston, Tex. Sand wedge. 1,695,598; Dec. 18.
Macdonald, Angus S., Great Neck, N. Y., assignor to Snead & Company. Heat treatment of metals. 1,695,433; Dec. 18.
MacFarland, Allis M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatic electric welding apparatus. 1,695,694; Dec. 18.
Mackenzie, John, assignor of one-half to W. Heynacher, Minneapolis, Minn. Gas producing and heating appliance. 1,695,854; Dec. 18.
Mackie, James, and Sons, Limited. (See Mackie, John P., assignor.)
Mackie, John P., commonly known as Jack P. Mackie, assignor to James Mackie and Sons, Limited, Belfast, Ireland. Doffing mechanism for spinning, twisting, and like machines. 1,695,659; Dec. 18.
Magidson, Frank, Pittsburgh, Pa., assignor to Star Service Hanger Company, Detroit, Mich. Machine for manufacturing wire garment hangers. 1,695,603; Dec. 18.
Magill, Urwin J., Rye, N. Y. Areaway construction. 1,695,810; Dec. 18.
Magnavox Company, The. (See Metcalf, Herbert E., assignor.)
Magnetic Analysis Corporation. (See Berlowitz, Max E., assignor.)
Majestic Metal Specialties, Inc. (See Kasdan, N., and Pollack, assignors.)
Major, William W., and J. C. Carpenter, jr., Clifton Forge, Va. Tie nipper. 1,695,660; Dec. 18.
Malone, J. H. (See Hinchman, Alva K., assignor.)
Manion, Charles H. (See Kinter, C. W., and Manion.)
Manning, Fred W., Berkeley, Calif., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Magazine filter. 1,695,811; Dec. 18.
Mansfield, Virgil D., Columbus, Ohio. Power-driven billing machine. 1,695,769; Dec. 18.
Marden, John W., East Orange, and H. K. Richardson, Newark, N. J., assignors to Westinghouse Lamp Company. Refractory cement. 1,695,812; Dec. 18.
Markels, Leonard, New York, N. Y. Exhaust purifier. 1,695,554; Dec. 18.
Markon Manufacturing Co. (See Wilhelm, John H., assignor.)
Marquette Manufacturing Company. (See Nordgren, Algot W., assignor.)
Marshak, Isidore, assignor to A. Amitin, Brooklyn, N. Y. Fern stand. Des. 77,247; Dec. 18.
Marshak, Isidore, assignor to A. Amitin, Brooklyn, N. Y. Fern stand. Des. 77,248; Dec. 18.
Mart, Leon T., Kansas City, Mo. Air preheater for furnaces. 1,695,434; Dec. 18.
Martin, Henry, Eddyville, Ky. Hat brace. 1,696,047; Dec. 18.
Maserang, John B., Belleville, Ill. Railway tie. 1,695,770; Dec. 18.
Mason, Mattie N. (See Gardner, Florinda, assignor.)
Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric-current transmission. 1,695,813; Dec. 18.
Matheson, Arthur M. (See Herrly, C. J., and Matheson.)
Mathewson, Wilfred B., North Weymouth, Mass., assignor to Simmons Company, Kenosha, Wis. Mattress and side stitching the same. 1,695,736; Dec. 18.
Maxim, Hiram P., assignor to The Maxim Silencer Company, Hartford, Conn. Silencer. 1,695,435; Dec. 18.
Maxim Silencer Company, The. (See Maxim, Hiram P., assignor.)
Mayo, Benjamin F., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on pieces of sheet material. 1,695,555; Dec. 18.
McArthur, Arthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Doubling apparatus. 1,696,097; Dec. 18.
McCandless, Byron, Annapolis, Md. Roll-holding camera. 1,695,382; Dec. 18.
McCarthy, Louis, assignor to The Macallen Company, Boston, Mass. Method of and apparatus for separating and cleaning mica. 1,695,383; Dec. 18.
McCollum, James H. K., assignor of one-half to B. J. Wright, Long Branch, N. J., and one-fourth to A. J. Baruth, Lawrence, N. Y. Constant-volume and constant-compression engine and operating same. 1,695,714; Dec. 18.
McConway & Torley Company, The. (See Kelso, William, assignor.)
McCormick, Francis H., and J. P. Dwyer, Perth, Western Australia, Australia. Machine for the pickling of grain. 1,696,048; Dec. 18.
McCormick, Thomas J., Detroit, Mich. Vehicle tire cover. 1,696,009; Dec. 18.
McCulloch, Leon, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electron-emitting element. 1,695,899; Dec. 18.
McCurdy, Robert P., Pittsburgh, Pa., and F. W. Hochstetter, Dayton, Ohio, assignors, by mesne assignments, to said Hochstetter. Nonglare electric lamp for headlights. 1,695,464; Dec. 18.
McGiffert, John R., assignor to Clyde Iron Works, Duluth, Minn. Winding engine. 1,695,498; Dec. 18.
McGranighan, John R., Philadelphia, Pa. Cake-plate leveler. 1,696,098; Dec. 18.
McGunnigle, Harold A., assignor to Artlite, Inc., New York, N. Y. Apparatus for projecting light. 1,695,556; Dec. 18.
McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Yarn-compensating device for creels. 1,695,814; Dec. 18.
McKeown, Samuel C., New Rochelle, N. Y., and C. C. Bruckner, Ironia, N. J., assignors, by mesne assignments, to The Engravograph Corporation. Engraving machine. 1,695,771; Dec. 18.
McKinley, Charles W. (See Tillotson, H. C., Rullison, and McKinley.)
Mead Pulp & Paper Company, The. (See Heisel, Ralph E., assignor.)
Mead Pulp & Paper Company, The. (See Ludwig, William C., assignor.)
Mechlovits, Bernat, New York, N. Y. Brooch or similar article. Des. 77,249; Dec. 18.





Melville Shoe Corporation. (See Melville, Ward, assignor.)
Melville Shoe Corporation. (See Melville, W., and Smythe, assignors.)
Melville, Ward, Brooklyn, N. Y., assignor to Melville Shoe Corporation. Store front. Des. 77,250; Dec. 18.
Melville, Ward, Old Field, N. Y., assignor to Melville Shoe Corporation. Store front. Des. 77,251; Dec. 18.
Melville, Ward, Old Field, and R. H. Smythe, Brooklyn, N. Y., assignors to Melville Shoe Corporation. Store front. Des. 77,252; Dec. 18.
Merrick, Frank W., Dorchester, assignor to American Stay Co., East Boston, Mass. Slitting machine. 1,695,715; Dec. 18.
Merzoian, Edward L., Porterville, Calif. Dispenser. 1,695,599; Dec. 18.
Metallisator Berlin A. G. (See Bourges, Carl, assignor.)
Metcalf, Herbert E., San Leandro, assignor to The Magnavox Company, San Francisco, Calif. Vibration dampener for vacuum tubes. 1,695,600; Dec. 18.
Mexco Limited. (See Scott, Alexander C., assignor.)
Meyers, George W., Rahway, N. J. Fuel economizer. 1,695,695; Dec. 18.
Mezger, Charles A. (See Lasker, W. W., and Mezger.)
Miller, James S., Bedford, Ind. Gearshift. 1,696,049; Dec. 18.
Miller, Monroe E. (See Causey, G. M., and Miller.)
Miller, Wilbur G., Los Angeles, Calif. Hose and tube clamp. 1,695,340; Dec. 18.
Mills, Chester B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Automatic steering for dirigible craft. 1,695,601; Dec. 18.
Milwaukee Lace Paper Company. (See Graffenberger, Friedrich, assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Mingle, William, and H. M. Jackson, assignors to Simmons Limited, Montreal, Quebec, Canada. Bed. 1,695,772; Dec. 18.
Misb, Frank C., Greenville, Va. Concrete and steel spring rail tie. 1,695,604; Dec. 18.
Mix, Edwin S., assignor to Hickok Manufacturing Company, Inc., Rochester, N. Y. Belt buckle. Des. 77,253; Dec. 18.
Mochel, Norman L., Ridley Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Turbine-blade lashing. 1,695,971; Dec. 18.
Moladale, Theodore C., Chattanooga, Tenn. Seesaw. 1,695,737; Dec. 18.
Monk, Reginald H., Montreal, Quebec, Canada. Obtaining titanium oxide. 1,695,324; Dec. 18.
Montague, Henry C., Washington, D. C. Garment bag. 1,695,661; Dec. 18.
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moore, William D., J. B. Loring, and W. J. Bowers, Birmingham, Ala., assignors to Sand Spun Patents Corporation, New York, N. Y. Apparatus for marking pipes. 1,695,855; Dec. 18.
Moores, Joel, Norwood, assignor to The J. H. Day Company, Cincinnati, Ohio. Cake forming and depositing machine. 1,696,099; Dec. 18.
Morgan, Thomas A., and H. H. Thompson, assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Transmission and follow-up system for gyrocompasses. 1,695,774; Dec. 18.
Morgan, William C., assignor of one-fourth to J. S. Hall, Beeville, Tex. Attachment for dentil engine handpieces. 1,695,773; Dec. 18.
Morin, Adelard, Nashua, N. H. Shade bracket. 1,696,050; Dec. 18.
Morin, Edgar G., jr., San Francisco, Calif. Combination tool. 1,695,662; Dec. 18.
Morrison, Charles F., Chattanooga, Tenn., assignor to Morrison-Mertins, Inc. Drier. 1,696,172; Dec. 18.
Morrison-Mertins, Inc. (See Morrison, Charles F., assignor.)
Mueller, Moritz L., Seattle, Wash., assignor to Northwest Blower Kiln Company, Portland, Oreg. Controlling the processing of materials. 1,695,738; Dec. 18.
Muffly, Glenn. (See Carroll, Louis W., assignor.)
Müller, Friederich, Elizabeth, N. J. Joint for golf clubs. 1,695,291; Dec. 18.
Murphy, James J. (See Gordon, W. A., Murphy, and Perrone.)
Musil, James, and D. H. Gilchrist, Olivia, Minn. Snowplow. 1,695,775; Dec. 18.
Myers, Roy H., Hagerstown, Md., assignor to W. H. Strauss, Waynesboro, Pa. Spark-plug-testing device. 1,695,557; Dec. 18.
Mylius, Walter G. (See Rutter, A. R., and Mylius.)
Naamlooze Vennotschap Maatschappij tot Veraardiging van Snijmachines Volgens van Berkel's Patent en van andere Werktuigen. (See van Berkel, Cornelius F. M., assignor.)
Nagel, W. G., Electrical Company, The. (See Adams, Clark M., assignor.)
Nashua Manufacturing Company. (See Laliberte, Joseph H., assignor.)
National Carbon Company. (See Plimmer, Alfred G., assignor.)
National Electric Producta Corporation. (See Staples, Horace A., assignor.)
National Supply Company, The. (See Young, Forrest J., assignor.)
Nemec, Fred A., Brea, Calif. Eccentric yoke. 1,695,776; Dec. 18.
Neuner, Frederick W. C., assignor to Indiana Lamp Corporation, Connerville, Ind. Reflector-supported light-socket mounting. 1,695,465; Dec. 18.
Newell, Elwood B., Grand Rapids, Mich. Collar fastener. 1,695,815; Dec. 18.
New Jersey Chain Corporation. (See Prestinari, Eugen, assignor.)
Newman, George A., St. Paul, Minn. Device for decorating walls and similar surfaces. 1,696,010; Dec. 18.
New Process Multi-Casting Company. (See Harmes, Edward, assignor.)
New Process Multi-Castings Company. (See Lawlor, John J., assignor.)
Newton, Ira F., St. Paul, Minn. Gasoline-dispensing device. 1,695,436; Dec. 18.
Niacet Chemicals Corp. (See Herrly, C. J., and Matheson, assignors.)
Nissen, John P., jr., Philadelphia, Pa. Printing roller. 1,695,437; Dec. 18.
Noble, Albert, Anniston, assignor to Federal Phosphorus Company, Birmingham, Ala. Production of phosphoric acid. 1,695,558; Dec. 18.
Nordgren, Algot W., assignor to Marquette Manufacturing Company, St. Paul, Minn. Bumper mounting. 1,695,602; Dec. 18.
Nordland, Alfred, De Smet, S. Dak. Elevator. 1,696,122; Dec. 18.
Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Reversible drill throttle. 1,695,777; Dec. 18.
Northwest Blower Kiln Company. (See Mueller, Moritz L., assignor.)
Norton, Don W., assignor to American Signs Corporation, Kalamazoo, Mich. Sign. Des. 77,254; Dec. 18.
Nowosielski, Edward B., Bloomfield, assignor to Splitdorf Electrical Company, Newark, N. J. Electrical condenser. 1,695,778; Dec. 18.
Noyes, Henry T., assignor to Art in Buttons Incorporated, Rochester, N. Y. Production or manufacture of disks or blanks for buttons or the like from irregularly-shaped pieces of material. 1,695,817; Dec. 18.
Noyes, Henry T., and R. Stanforth, assignors to Art in Buttons Incorporated, Rochester, N. Y. Production or manufacture of disks or blanks for buttons or the like from irregularly-shaped pieces of material. 1,695,816; Dec. 18.
Nygaard, Oscar O., Saugus, Mass., assignor to Combustion Engineering Corporation, New York, N. Y. Stoker air control. 1,696,144; Dec. 18.
Nyman, Alexander, New York, N. Y. Loud speaker. 1,695,779; Dec. 18.
Oakley, Alfred, assignor to Hardwick & Magee Company, Philadelphia, Pa. Carpet. Des. 77,255; Dec. 18.
Oakley, Erastus G., Southport, assignor to Bridgeport Brass Company, Bridgeport, Conn. Dust cap for tire valves. 1,695,818; Dec. 18.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,695,499; Dec. 18.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,695,500; Dec. 18.
O'Friel, William, Braddock, Pa. Wall-paper bracket. 1,695,466; Dec. 18.
Ogden, John E. (See Tomkinson, Charles C., assignor.)
Ohio State Stove Mfg. Co. (See Packer, William H., assignor.)
Ohlenbusch, John M. (See Steiner, Leopold, assignor.)
Ohlin, Erik A., and F. O. Carlsson, Hyltebruk, Sweden. Paper-making machinery. 1,695,972; Dec. 18.
Oilgear Company, The. (See Ferris, Walter, assignor.)
Oishei, John R., assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper. 1,695,342; Dec. 18.
Oliver, John G. (See Hornberger, Earl J., assignor.)
Olsen, Konrad, Tacoma, Wash. Electric hammer. 1,695,780; Dec. 18.
Olsson, Harry A., Chicago, Ill. Adjustable corner bar for plate-glass windows. 1,695,978; Dec. 18.
O'Neill, George D., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Activation of filaments. 1,695,819; Dec. 18.
Opitz, Bernhard, Portland, Oreg. Automatic volumetric measuring device. 1,695,501; Dec. 18.
Ornstein, Leon. (See Flohr, H. C., and Ornstein.)
Orszag, Ladislaus, and P. Curcuruto, Bronx, N. Y. Tire. 1,696,051; Dec. 18.
Osborne Process, Inc. (See Osborne, William L., assignor.)
Osborne, William L., assignor to Osborne Process, Inc., Los Angeles, Calif. Cleaning lubricant cases of engines. 1,696,100; Dec. 18.
Otis Elevator Company. (See Hymans, F., and Westlin, assignors.)
Otis, John E., West New York, N. J. Grease trap. 1,695,781; Dec. 18.
Ovtschinnikoff, Alexander, Arnstadt, Germany. Machine for manufacturing and packing matches. 1,696,052; Dec. 18.
Owen, Edward R., Nyack, N. Y. Holder for receptacles. 1,695,739; Dec. 18.
Owens Bottle Company, The. (See Williams, Percy Q., assignor.)

Oxweld Acetylene Company. (See Kehl, Robert J., assignor.)
Packard Motor Car Company. (See Woolson, Lionel M., assignor.)
Packer, William H., assignor to Ohio State Stove Mfg. Co., Columbus, Ohio. Hinge mounting for cabinet doors. 1,696,123; Dec. 18.
Page, Harry B., East Haven, assignor to Sargent & Company, New Haven, Conn. Padlock for tire carriers and the like. 1,695,696; Dec. 18.
Palmer, Cassius C., New York, N. Y. Refrigeration and apparatus therefor. 1,695,292; Dec. 18.
Palmer, Harry A., Dorchester, assignor to Palmer Inventions, Inc., Boston, Mass. Internal-combustion engine. 1,696,054; Dec. 18.
Palmer Inventions, Inc. (See Palmer, Harry A., assignor.)
Palmieri, Giuseppe, Providence, R. I. Automobile traffic lamp. Des. 77,256; Dec. 18.
Panalle, Anatole, and G. Alexander, Washington, D. C. Lawn-mower attachment. 1,695,438; Dec. 18.
Pappert, Emanuel, New York, N. Y. Optical mounting. Des. 77,257; Dec. 18.
Parkes, Deric W. (See Robinson, H. W., and Parkes.)
Parsons, William A., Fort Atkinson, Wis. Cap for silos. 1,695,502; Dec. 18.
Parts Corporation. (See Winkler, Louis G., assignor.)
Pashigian, Bagsar, Haverhill, Mass., and H. J. Gallant, Exeter, N. H. Attachment for utilizing shoe-sewing machines to stick a cold-process tape on shoes to reenforce same. 1,695,605; Dec. 18.
Pasini, Jerome, New York, N. Y. Ship. 1,696,053; Dec. 18.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Catalytic agent and preparing the same. 1,695,740; Dec. 18.
Paxson, Russell C. (See Freese, F. G., and Paxson.)
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slipping weft detector for looms. 1,695,384; Dec. 18.
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pick-out device for looms. 1,695,385; Dec. 18.
Payne, Oscar V., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Picker-rod lubricator for looms. 1,695,386; Dec. 18.
Peale-Davis Company. (See Davis, Kenneth, assignor.)
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Adjusting mechanism for sweep rakes. 1,695,503; Dec. 18.
Pearson, Charles, Chicago, Ill., assignor to International Harvester Company. Adjusting mechanism for sweep rakes. 1,695,504; Dec. 18.
Peebles, George, Elizabeth, N. J., assignor to Selbec, Inc., New York, N. Y. Roller vacuum extractor. 1,695,974; Dec. 18.
Peerless Shock Loader Company. (See Berry, B. C., and Dickinson, assignors.)
Pelich, Eduard, Prague, Czechoslovakia. Revolving-cylinder and reciprocating-piston pump. 1,695,975; Dec. 18.
Penn Utility Company. (See Williners, John A., assignor.)
Pennington, Harry R., Chicago, Ill., and C. H. Hollup, Milwaukee, Wis., assignors to C. H. Hollup Corporation. Arc-welding electrode. 1,696,011; Dec. 18.
Pennsylvania Crusher Company. (See Rouse, Charles R., assignor.)
Pennsylvania Rubber Company. (See Heefner, La Port W., assignor.)
Perfex Corporation. (See Young, Fred M., assignor.)
Perham, Arthur L. (See Dawson, A. T., Watt, and Perham.)
Perin, Donald W., Brookline, Mass., assignor to Perin-Walsh Company, Boston, Mass. Rolling container. 1,695,928; Dec. 18.
Perin, Donald W., Brookline, assignor to Perin-Walsh Company, Boston, Mass. Removable container for vehicles. 1,695,929; Dec. 18.
Perin-Walsh Company. (See Perin, Donald W., assignor.)
Perrone, Pascal. (See Gordon, W. A., Murphy, and Perrone.)
Peterson, Fredolf J., Detroit, Mich. Supporting and sealing means for cyanide pots. 1,695,467; Dec. 18.
Pettibone Mulliken Company. (See Powell, Edward W., assignor.)
Photostat Corporation. (See Caps, Arthur W., assignor.)
Pierce, Harold S., Indianapolis, Ind., assignor to Link-Belt Company, Chicago, Ill. Coupling. 1,695,343; Dec. 18.
Plimmer, Alfred G., Cleveland, Ohio, assignor to National Carbon Company, Inc. Electrical connection and forming the same. 1,696,124; Dec. 18.
Pollack, Daniel. (See Kasdan, N., and Pollack.)
Ponsonby, Amos A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. 1,695,856; Dec. 18.
Pope Machine Company. (See La Montagne, Patrick P., assignor.)
Porter, Benjamin, Fullerton, N. Dak. Glareless headlight. 1,696,055; Dec. 18.
Poston, Emmett V., Springfield, Ill. Machine for veneering brick. 1,695,293; Dec. 18.
Powell, Edward W., assignor to Pettibone Mulliken Company, Chicago, Ill. Switch-lock device. 1,695,900; Dec. 18.
Power, Thomas J., Milwaukee, Wis. Forced-ventilation system. 1,695,820; Dec. 18.
Prestinari, Eugen, Irvington, assignor to New Jersey Chain Corporation, Newark, N. J. Bracelet chain. 1,695,505; Dec. 18.
Preston, Harrison O., Port Arthur, Tex., assignor, by mesne assignments, to The Texas Company, New York, N. Y. Container for lubricants. 1,695,976; Dec. 18.
Pritchard, William S. (See Grossman, Harold, assignor.)
Proctor, Barton A., assignor, by mesne assignments, to The Automatic Advertiser, Incorporated, New York, N. Y. Film-reversing mechanism. 1,695,857; Dec. 18.
Proctor, John W., Pittsburgh, Pa. Clothesline holder. 1,696,056; Dec. 18.
Propp, Morris. (See Hertzberg, Harry, assignor.)
Proulx, H. C. (See Welpley, Walter W., assignor.)
Proulx, Walter, Norridgewock, Me., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for turning shoes. 1,695,344; Dec. 18.
Pugh, John P., and W. C. Clark, Shreveport, La. Well packer. 1,695,741; Dec. 18.
Pym, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Pulling-over machine. 1,695,560; Dec. 18.
Pym, Charles F., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,695,561; Dec. 18.
Pym, Charles F., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 1,695,559; Dec. 18.
Quinn, Charles H., San Francisco, Calif. Pressure and temperature change responsive furnace-control means. 1,695,606; Dec. 18.
Quisling, Sverre, Philadelphia, Pa. Vehicle brake. 1,695,901; Dec. 18.
R. C. Products Company, The. (See Evers, W. H., and Shimek, assignors.)
Rabinowitz, Louis M., New York, N. Y. Attachment for sewing machines. 1,695,607; Dec. 18.
Radio Corporation of America. (See Leathers, Ward, assignor.)
Ramsey, Edward J., New York, N. Y. Stitch-down welt-less shoe. 1,695,697; Dec. 18.
Raney, Clemma R. (See Benjamin, B. R., Raney, and Webber.)
Raney, Estell C., Columbus, Ohio. Automatically-reclosing circuit breaker. 1,695,506; Dec. 18.
Rantasa, Jakob, Vienna, Austria. Propelling arrangement on sleighs. 1,696,125; Dec. 18.
Rasmussen, Charles E. (See Jandus, H. S., and Rasmussen.)
Rasmussen, Kristian, Buffalo, N. Y. Fuel-oil-injection pump. 1,695,716; Dec. 18.
Rast, Felix Q., New York, N. Y. Coin-operative device. 1,695,439; Dec. 18.
Rawling, Francis G., Madison, Wis. Producing sodium acetate. 1,695,742; Dec. 18.
Ray, William H., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for interconnecting and testing electrical apparatus. 1,696,012; Dec. 18.
Read Machinery Co. (See Read, Otto R., assignor.)
Read, Otto R., assignor to Read Machinery Co., Inc., York, Pa. Mixing machine. 1,695,345; Dec. 18.
Reagan, William J., Lynn, Mass. French cord binder. 1,695,977; Dec. 18.
Redfield, John H., assignor to F. P. Kellogg, Denver, Colo. Gun sight. 1,695,440; Dec. 18.
Redfield, Snowden B., Easton, Pa. assignor to Ingersoll-Rand Company, Jersey City, N. J. Damper for check valves. 1,695,978; Dec. 18.
Redinger, Joseph M., Johnston, R. I. Ignition device. 1,695,507; Dec. 18.
Reese, Henry A., Glendale, assignor of one-half to E. S. Webster, Long Island City, N. Y. Smokeless receptacle. 1,695,346; Dec. 18.
Reese, Samuel S., Brooklyn, N. Y. Loose-leaf container. 1,695,441; Dec. 18.
Reeves, Robert W., Newport, R. I. Electric-lamp guard. 1,695,468; Dec. 18.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Stopping mechanism for knitting machines. 1,695,387; Dec. 18.
Reid, James E., Moorestown, N. J. Air compressor for dental and other purposes. 1,696,013; Dec. 18.
Reid, Matthew, Vancouver, British Columbia, Canada. Tube-testing machine. 1,695,979; Dec. 18.
Reid, Robert G. (See Ricks, F., and Reid.)
Reifsnider, John M., Adrian, Mich., assignor to American Chain Company, Inc. Automobile bumper. 1,695,294; Dec. 18.
Reiter, Franz, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric and Manufacturing Company. Insulator. 1,695,858; Dec. 18.
Remick, Walter L., Philadelphia, Pa. Apparatus for the treatment of solid-bearing solutions. 1,696,014; Dec. 18.
Remington Rand Inc. (See Day, William H., assignor.)
Remington Rand Inc. (See Lasker, W. W., and Mezger, assignors.)
Republic Flow Meters Company. (See Grisdale, G. W., and Schneider, assignors.)
Resseguie, Alba A., Schaller, Iowa. Planter depth gauge. 1,695,608; Dec. 18.





Restein, Clement, Hatboro, Pa. Packing and making the same. 1,695,821; Dec. 18.
Restein, Clement, Hatboro, Pa. Packing and making the same. 1,695,822; Dec. 18.
Reynier, Edmond H., Passaic, N. J. Tentering machine. 1,695,717; Dec. 18.
Reynolds, Robert A., Detroit, Mich. Internal-combustion engine. 1,695,823; Dec. 18.
Rich, George R., Battle Creek, Mich., assignor, by mesne assignments, to Wilcox-Rich Corporation. Making valve tappets. 1,695,961; Dec. 18.
Richardson, Henry K. (See Marden, J. W., and Richardson.)
Richter, Frank, Union, N. J. Tailboard and tailboard mounting for trucks and the like. 1,695,609; Dec. 18.
Richter, Hans, Behringersdorf, near Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Slip-ring assembly with short-circuiting contact. 1,695,859; Dec. 18.
Ricks, Fred, and R. G. Reid, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for sewing bags. 1,695,718; Dec. 18.
Ringler, William A., Philadelphia, Pa., assignor to Globe-Wernicke Company, Cincinnati, Ohio. Visible index-card system. 1,695,698; Dec. 18.
Ringler, William A., Philadelphia, Pa., assignor to The Globe-Wernicke Co. Record-sheet holder and sheets therefor. 1,695,699; Dec. 18.
Ritter, Ira E., Kalamazoo, Mich. Valve-spring-compressing device. 1,695,610; Dec. 18.
Robbins, Azor D., assignor to International Motor Company, New York, N. Y. Drive for motor vehicles. 1,695,296; Dec. 18.
Roberts and Schaefer Company. (See Arms, Ray W., assignor.)
Robertson, Edgar D. (See Lewis, C. B., and Robertson.)
Robertson, Martin J., assignor to American Elevator and Machine Co., Louisville, Ky. Interlock for elevators. 1,695,469; Dec. 18.
Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Needle motion for Axminster looms. 1,695,388; Dec. 18.
Robertson, William W., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pile-cutting mechanism for double-fabric looms. 1,695,389; Dec. 18.
Robinson, H. E., et al. (See Wagoner, Samuel O., assignor.)
Robinson, Herbert W., Birmingham, and D. W. Parkes, West Bromwich, England. Resolving emulsions of tar or tar oils. 1,696,057; Dec. 18.
Robinson, Wirt R., Providence, R. I. Vehicle wheel rim. 1,696,015; Dec. 18.
Roche, John, Hoboken, N. J. Dimming headlights for automobiles. 1,695,824; Dec. 18.
Rodanet, Charles H. H., Versailles, assignor to Societe Anonyme, Etablissements Ed. Jaeger, Paris, France. Register wheel. 1,695,663; Dec. 18.
Rogers, Erastus W., Durham, N. C. Stove. Des. 77,258; Dec. 18.
Rohm & Haas Company. (See Hollander, Charles S., assignor.)
Rohn, Wilhelm, Hanau-on-the-Main, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Electric annealing or heating furnace. 1,695,860; Dec. 18.
Rollins, Edward A., Roxbury, Mass. Temperature indicator. 1,695,295; Dec. 18.
Rolls-Royce Limited. (See Royce, Frederick H., assignor.)
Rose, James R. (See Harris, John, assignor.)
Ross, Walter C., New York, N. Y. Combination pitcher and drinking glass. Des. 77,259; Dec. 18.
Roučka, Erich, Blansko, Czechoslovakia. Regulating combustion. 1,695,470; Dec. 18.
Roučka, Erich, Blansko, Czechoslovakia. Automatic liquid-feed regulator. 1,695,471; Dec. 18.
Roučka, Erich, Blansko, Czechoslovakia. Furnace-controlling apparatus. 1,695,472; Dec. 18.
Rouge, Joseph A., Remiremont, France. Thread guide and cleaner for spinning looms and the like machines. 1,695,743; Dec. 18.
Rouse, Charles R., Swissvale, Pa., assignor to Pennsylvania Crusher Company, New York, N. Y. Cage-adjusting mechanism for crushing machinery. 1,695,562; Dec. 18.
Roussens, Peter G., Brooklyn, N. Y. Coffee urn and biggin. 1,695,347; Dec. 18.
Royce, Frederick H., West Wittering, near Chichester, assignor to Rolls-Royce Limited, Derby, England. Steering mechanism for mechanically-driven road vehicles. 1,695,664; Dec. 18.
Ruberoid Company, The. (See Abraham, Herbert, assignor.)
Rubin, Benjamin, Philadelphia, Pa. Detachable tread member. 1,696,058; Dec. 18.
Ruckert, Harry E., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Mechanism for counting and stacking articles. 1,695,982; Dec. 18.
Ruckstell Sales and Manufacturing Company. (See Hall, Elbert J., assignor.)
Rüdenberg, Reinhold, Berlin-Grunewald, assignor to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Siemensstadt, near Berlin, Germany. Oscillograph. 1,695,719; Dec. 18.
Rudman, Mark. (See Rudman, Maude, assignor.)
Rudman, Maude, assignor to M. Rudman, Indianapolis, Ind. Composite elastic top lift for shoe heels. 1,696,173; Dec. 18.
Rueppel, Walter, and L. Cone, Princeton, assignors, by mesne assignments, of one-sixth to B. M. Cone and one-sixth to G. A. Cone, Princeton, Idaho. Brake. 1,695,665; Dec. 18.
Rullison, Karl A. (See Tillotson, H. C., Rullison, and McKinley.)
Russell, Robert C., Pittsburgh, Pa. Index. 1,696,016; Dec. 18.
Russo, Ralph. (See Judd, E. S., and Russo.)
Rutter, Argyle R., Forest Hills, and W. G. Mylius, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company. Electrical measuring instrument. 1,695,861; Dec. 18.
Sachs, Joseph, Hartford, Conn. Electric service installation. 1,696,150; Dec. 18.
Saito, Haruko, Tokyo, Japan. Making bobbed-hair holders. 1,695,983; Dec. 18.
Salmon, Albert H., Twickenham Park, England. Spring support for chairs, couches, and the like. 1,696,126; Dec. 18.
Salsbury, Henry P., London, England. Lifting jack. 1,696,101; Dec. 18.
Sand Spun Patents Corporation. (See Moore, W. D., Lorling, and Bowers, assignors.)
Sanders, John C., assignor to Boeing Airplane Company, Seattle, Wash. Adjustable airplane strut terminal. 1,695,611; Dec. 18.
Sandfield, Michael, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Slot-insulating cell. 1,695,862; Dec. 18.
Sandifur, William H., Medaryville, Ind. Corn machine. 1,695,902; Dec. 18.
Sanford, Alfred F., Knoxville, Tenn. Radio apparatus. 1,695,390; Dec. 18.
Sanitary Products Corporation of America. (See Ruckert, Harry E., assignor.)
Santilli, Stefano, Canton, Ohio. Paring and slicing knife. 1,695,478; Dec. 18.
Sappenfield, Devere D., and F. M. Sheets, Kansas City, Kans. Windshield heater. 1,696,127; Dec. 18.
Sargent & Company. (See Page, Harry B., assignor.)
Saunders, Philip K., Johannesburg, Transvaal, South Africa. Piston for use in the cylinders of internal-combustion engines. 1,696,017; Dec. 18.
Savage, Lawrence F., London, England. Stereoscopic cinematography. 1,695,744; Dec. 18.
Sawyer, Frank M., Miami Beach, Fla. Window construction. 1,695,903; Dec. 18.
Schachter, Karl, Dorchester, Mass. Periodical holder. 1,695,297; Dec. 18.
Schedler, Carl W. (See Hirschkind, W., and Schedler.)
Scheel, Herbert, Maplewood, Mo., assignor, by mesne assignments, to Scheel Motors Corporation. Rotary valve. 1,695,348; Dec. 18.
Scheel Motors Corporation. (See Scheel, Herbert, assignor.)
Schellberg, Oscar B., New York, N. Y. Colonic therapy apparatus. 1,696,018; Dec. 18.
Schirmacher, Karl, and F. Stolz, Hochst-on-the-Main, and Hans Schlichenmaier and W. Krohs, Soden-on-the-Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing a new catalyst. 1,695,666; Dec. 18.
Schleicher, Frank J., St. Louis, Mo. Box. Des. 77,260; Dec. 18.
Schlichenmaier, Hans. (See Schirmacher, K., Stolz, Schlichenmaier, and Krohs.)
Schmid, Anton, and A. Stoll, assignors to Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Continuous-current dynamo-electric machine. 1,696,102; Dec. 18.
Schmitt, Georg, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Tiltable furnace. 1,695,863; Dec. 18.
Schneider, Elmer. (See Grisdale, G. W., and Schneider.)
Schou, Theodor, assignor to Ideal Electric & Manufacturing Company, Mansfield, Ohio. Squirrel-cage winding. 1,695,391; Dec. 18.
Schraner, John, Tell City, Ind. Tire. 1,696,059; Dec. 18.
Schreiber, Sigmond, Pittsburgh, Pa. Direction signal. 1,695,349; Dec. 18.
Schröder, Georg, Schomberg, near Wildbad, Germany. Producing remedies from glandular organs. 1,695,612; Dec. 18.
Schröder, Hans W. C., Lubeck, assignor to A. B. Dräger, deceased, Finkenberg, Lubeck, Germany; E. Dräger, née Stange, executrix. Inhaling device for administering gases and the like. 1,695,930; Dec. 18.
Schulte, Bernard F., New York, N. Y. Store front. Des. 77,261; Dec. 18.
Schürmann, Julius, Berlin-Zehlendorf, Germany. Electric fuse. 1,695,825; Dec. 18.
Schuster, Richard, Berlin-Halensee, Germany. Making electrolytes. 1,695,667; Dec. 18.
Schweyer, Daniel H., Easton, Pa. Train-controlling apparatus. 1,695,931; Dec. 18.
Scott, Alexander C., assignor to Mexco Limited, London, England. Explosive. 1,695,932; Dec. 18.
Scovill Manufacturing Company. (See Anderson, George F., assignor.)
Scovill Manufacturing Company. (See Bennett, Morris H., assignor.)

Scovill Manufacturing Company. (See Fenton, Paul E., assignor.)
Scovill Manufacturing Company. (See Wild, Henry W., assignor.)
Searles, Volney A., Jackson, Mich., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Liquid-feeding device. 1,695,782; Dec. 18.
Sears, Roebuck and Co. (See Caron, Arthur J., assignor.)
Seelbach, K. C., Company. (See Ern, August F., assignor.)
Seibt, Georg, Berlin-Schoneberg, Germany. Electric discharge tube. 1,696,103; Dec. 18.
Seidelinger, Roble, Philadelphia, Pa. Signal means for typewriters. 1,695,392; Dec. 18.
Seifert, Charles H., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Casing. 1,695,298; Dec. 18.
Seibec, inc. (See Peebles, George, assignor.)
Selden Company, The. (See Jaeger, A. O., assignor, and Bertsch.)
Sessinghaus, Johannes, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Instrument-transformer mounting. 1,695,864; Dec. 18.
Seward, Roy R., and J. A. Booe, Indianapolis, Ind. Clip for securing wood to iron beams. 1,696,104; Dec. 18.
Shaffer, Layton S., assignor to The Byers Machine Company, Ravenna, Ohio. Portable crane. 1,696,174; Dec. 18.
Shaver, Phillip A., Puente, Calif. Child's high chair. Des. 77,279; Dec. 18.
Shawmut Engineering Company. (See Hathaway, Edgar F., assignor.)
Shee, Parke E., Lancaster, Pa. Hanger. 1,696,128; Dec. 18.
Sheets, Fred M. (See Sappenfield, D. D., and Sheets.)
Sherbondy, William E., Cleveland, Ohio. Suction cleaner. 1,695,984; Dec. 18.
Shimek, John W. (See Evers, W. H., and Shimek.)
Shindel, Harry F., assignor to Willson Products, Inc., Reading, Pa. Nose-protecting strap for goggles. 1,695,393; Dec. 18.
Shipp, Clarence C., Indianapolis, Ind. Combined box base and damper. 1,696,105; Dec. 18.
Shively, George B., Waynesboro, Pa. Safety clamp. 1,695,350; Dec. 18.
Shultz, Albert B., Buffalo, N. Y. Shock absorber. 1,695,933; Dec. 18.
Siebers, Willibald, Amsterdam, Netherlands. Electrical registering device. 1,695,668; Dec. 18.
Siemens & Halske Aktiengesellschaft. (See Arndt, Hermann, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rohn, Wilhelm, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Rüdenberg, Reinhold, assignor.)
Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung. (See Steiner, L., and Gutmann, assignors.)
Sievern, Fredrick, McKeesport, Pa. Tool. 1,696,019; Dec. 18.
Silesia Verein Chemischer Fabriken Ida- und Marienhuette. (See Flemming, W., and Klein, assignors.)
Silica Gel Corporation, The. (See Patrick, Walter A., assignor.)
Silver, Myer S., Boston, Mass. Making auxiliary heel linings. 1,696,129; Dec. 18.
Simmons Company. (See Busch, Charles H., assignor.)
Simmons Company. (See Gail, John F., assignor.)
Simmons Company. (See Mathewson, Wilfred B., assignor.)
Simmons Limited. (See Mingle, W., and Jackson, assignors.)
Sincere, Frank E., Mount Vernon, N. Y. Umbrella. 1,695,826; Dec. 18.
Singelton, John A., assignor of one-fourth to L. S. Dougan, Columbus, Ohio. Frogless switch. 1,695,720; Dec. 18.
Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
Singer Manufacturing Company, The. (See Eames, George M., assignor.)
Sipe, Harry E., New York, N. Y. Signal device. 1,695,827; Dec. 18.
Sipher, Edmund F. (See Dann, W. M., Hill, and Sipher.)
Skinkle, George E., Cleveland, Ohio. Hose protector. 1,695,745; Dec. 18.
Skinner, Asa H., Watervliet, and H. J. Stambaugh, Troy, N. Y. Automatic gun. 1,695,508; Dec. 18.
Sklarek, Clifford, assignor to International Spotlight Corporation, Chicago, Ill. Dirigibly-mounted light. 1,695,509; Dec. 18.
Slick, Frank F. (See Boyd, J. K., and Slick.)
Small, Arthur E., assignor to Union Metal Products Company, Chicago, Ill. Positioning device for railway-car couplers. 1,695,351; Dec. 18.
Smith, A. L., Iron Works, The. (See Johnson, Chester W., assignor.)
Smith, Daniel W., Oak Park, Ill., assignor to International Harvester Company. Adjusting mechanism for harvester reels. 1,695,510; Dec. 18.
Smith, David F., Washington, D. C. Compressor. 1,695,721; Dec. 18.
Smith, Dennis W., Wilmette, assignor to Colborne Manufacturing Company, Chicago, Ill. Discharge mechanism for pie machines and the like. 1,695,511; Dec. 18.
Smith, George G., Littleton, Colo. System and apparatus for sewage. 1,695,669; Dec. 18.
Smith, George W., jr., assignor to The White Motor Company, Cleveland, Ohio. Internal-combustion engine. 1,696,060; Dec. 18.
Smith, Harry T., Miami, Fla. Table top. Des. 77,262; Dec. 18.
Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Accounting-machine demonstration chart. 1,695,700; Dec. 18.
Smith, John J., Allston, Mass. Pelt stretcher. 1,695,613; Dec. 18.
Smith, Walter A., Houston, Tex. Oil-injecting apparatus for asphalt mixers. 1,695,722; Dec. 18.
Smythe, Richard H. (See Melville, W., and Smythe.)
Snead & Company. (See MacDonald, Angus S., assignor.)
Societe Anonyme, Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
Société "Etablissements Samga & Bavox Réunis." (See Voreaux, Paul, assignor.)
Society of Chemical Industry in Basle. (See Bots, H., and Catineau, assignors.)
Soderberg, Carl R., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Balancing machine. 1,695,904; Dec. 18.
Soley, Frank, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Combination padlock. 1,696,061; Dec. 18.
Specht, Hans C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Brush holder. 1,695,865; Dec. 18.
Speiser, Gottlieb, Nuremberg, Germany, assignor to Westinghouse Electric & Manufacturing Company, New York, N. Y. Automatic safety switch for induction motors. 1,695,866; Dec. 18.
Speller, Frank N., Pittsburgh, Pa. Water-deactivating apparatus. 1,696,106; Dec. 18.
Sperry, Edwin A., Tientsin, China. Apparatus for the recovery of fine values from sand. 1,695,614; Dec. 18.
Sperry, Elmer A., jr., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Automatic steering for dirigible craft. 1,695,615; Dec. 18.
Sperry Gyroscope Company, The. (See Mills, Chester B., assignor.)
Sperry Gyroscope Company, The. (See Morgan, T. A., and Thompson, assignors.)
Sperry Gyroscope Company, The. (See Sperry, Elmer A., jr., assignor.)
Sperry Gyroscope Company, The. (See Stark, Kimball H., assignor.)
Splitdorf Electrical Company. (See Nowosielski, Edward B., assignor.)
Spring Stopper Company. (See Glaspey, Warren E., assignor.)
Spullies, William, Maywood, N. J. Friction-guide lubricator. 1,695,985; Dec. 18.
Stacey, Charles E., London, England, assignor to Du Pont Viscoloid Company, Wilmington, Del. Comb slide, binder, or the like for ladies' hair. 1,695,986; Dec. 18.
Staedell, Felix, New York, N. Y., assignor to Francis Keil & Son, Inc. Push-button-switch construction. 1,696,151; Dec. 18.
Stambaugh, Henry J. (See Skinner, A. H., and Stambaugh.)
Stamp, Thomas H., Buffalo, N. Y. Heater for domestic boilers. 1,695,352; Dec. 18.
Standard Coupler Company. (See Goodwin, Ernest G., assignor.)
Stanforth, Richard. (See Noyes, H. T., and Stanforth.)
Staples, Horace A., Plainfield, N. J., assignor to National Electric Products Corporation, New York, N. Y. Method of and tool for packing condenser tubes or the like. 1,695,616; Dec. 18.
Star Drilling Machine Company, The. (See Krupp, Leo A., assignor.)
Star Service Hanger Company. (See Magidson, Frank, assignor.)
Stark, Kimball H., New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electron-discharge device. 1,695,746; Dec. 18.
Starr, Frank F., assignor to Delco-Light Company, Dayton, Ohio. Electrical generating system. 1,695,353; Dec. 18.
Stein, Berthold. (See Berliner, R., Stein, and Trautner.)
Steindorff, Ulrich F. L., New York, N. Y. Portable electric lamp. 1,695,987; Dec. 18.
Steiner, Leopold, Brooklyn, assignor to J. M. Ohlenbusch, New York, N. Y. Hair curler. 1,695,442; Dec. 18.
Steiner, Ludwig, Berlin, and V. Gutmann, Nuremberg, assignors to Siemens-Schuckertwerke Gesellschaft mit beschränkter Haftung, Berlin-Siemensstadt, Germany. Sounding device for liquid levels. 1,695,701; Dec. 18.
Stephenson, Ralph W., Davenport, Iowa. Sound post for violins. 1,695,783; Dec. 18.
Sternberg, Irving C., New York, N. Y., assignor to Arctic Nu-Air Corporation, Chicago, Ill. Ventilating apparatus. 1,695,784; Dec. 18.
Stevee, Joseph J., et al. (See Keck, Max, assignor.)
Stevens, Leslie, Glen Ridge, N. J., assignor to Stevens Manufacturing Corporation, New York, N. Y. Loud-speaker diaphragm. Des. 77,263; Dec. 18.
Stevens Manufacturing Corporation. (See Stevens, Leslie, assignor.)





Stewart-Warner Speedometer Corporation. (See Manning, Fred W., assignor.)
Stewart-Warner Speedometer Corporation. (See Searles, Volney A., assignor.)
Stickney, Fernald S., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Temperature-measuring device. 1,695,807; Dec. 18.
Stoetzel, Joseph J., Bellaire, assignor to G. & G. Atlas Systems, Inc., New York, N. Y. Pressure-vacuum system of pneumatic dispatch. 1,695,785; Dec. 18.
Stoffregen, Otto G. (See Bemm, Frank W., assignor.)
Stokely, Ray L., Floral Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone-exchange system. 1,695,828; Dec. 18.
Stokes, Joseph, Rubber Company, (See Gunkel, Paul O., assignor.)
Stoll, Adolf. (See Schmid, A., and Stoll.)
Stollberg, Charles, assignor to American Can Company, New York, N. Y. Container. 1,695,563; Dec. 18.
Stolz, Friedrich. (See Schirmacher, K., Stolz, Schlichenmaier, and Kroha.)
Stolz, Joseph, Berlin-Charlottenburg, Germany, assignor to Westinghouse Electric & Manufacturing Company. Disconnecting switch. 1,695,868; Dec. 18.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Hasp lock. Des. 77,264; Dec. 18.
Stone, Elmer B., assignor to The American Hardware Corporation, New Britain, Conn. Suitcase lock. Des. 77,265; Dec. 18.
Strauss, William H. (See Myers, Roy H., assignor.)
Studley, Gilbert, jr., Yarmouth, Mass. Building block. 1,695,443; Dec. 18.
Sturrock, John, assignor to International Harvester Company, Chicago, Ill. Frame-adjusting means. 1,695,512; Dec. 18.
Sullivan Machinery Company. (See Halleck, Frank A., assignor.)
Sullivan, Sarah B., Berkeley, Calif. Furring and fastening device. 1,695,934; Dec. 18.
Sutherland, Ernest E., and F. F. Forshee, Mansfield, Ohio, assignors to Westinghouse Electric and Manufacturing Company. Heating unit. 1,695,869; Dec. 18.
Swanberg, Arthur W., assignor of one-half to B. P. Higby, Youngstown, Ohio. Lubricating mixture. 1,696,152; Dec. 18.
Sweetser, George T., New York, N. Y. Collar. 1,695,474; Dec. 18.
Symington, T. H., & Son, Inc. (See Drenning, Percy R., assignor.)
Tabor, Edward P., Worcester, Mass. Auto repair light. 1,695,670; Dec. 18.
Tallei, Guido, Rome, Italy. Airship with mixed sustentation. 1,695,394; Dec. 18.
Tapman, Isaac. (See Davis, R., and Tapman.)
Taudvin, Joseph T., New York, N. Y. Suspension device for punching bags. 1,695,829; Dec. 18.
Taylor, Waverly, Inc. (See Taylor, William W., jr., assignor.)
Taylor, William W., jr., assignor to Waverly Taylor, Inc., Washington, D. C. Door knocker. Des. 77,266; Dec. 18.
Teissère, Albert and J., St. Julien, France. Process of and apparatus for engraving printing cylinders. 1,695,617; Dec. 18.
Teissère, Jean. (See Teissère, Albert and J.)
Templeton, John O., assignor to Electropure Corporation, Detroit, Mich. Pasteurizing milk. 1,695,300; Dec. 18.
Tevander, Olof N., Chicago, Ill. Bottle closure. 1,695,301; Dec. 18.
Texas Company, The. (See Collins, George B., assignor.)
Texas Company, The. (See Preston, Harrison O., assignor.)
Thomas, Charles S., San Diego, Calif. Tool-coupling device. 1,695,564; Dec. 18.
Thomas, Charles S., San Diego, Calif. Tool-coupling means. 1,695,565; Dec. 18.
Thomason, John A., Atlanta, Ga. Boiler-compound dissolver. 1,695,354; Dec. 18.
Thompson, Frank W., West Haven, Conn. Electric heater. 1,695,302; Dec. 18.
Thompson, Herbert H. (See Morgan, T. A., and Thompson.)
Thompson, Robert E., Des Moines, Iowa. Glove-display rack. 1,695,618; Dec. 18.
Thomson, Harry P. (See Hogland, Joseph L., assignor.)
Thorp, Orison H., sr., Trenton, N. J. Horse collar. 1,696,063; Dec. 18.
Thurlow, Lewis K., and J. P. Agnew, Brooklyn, N. Y.; said Thurlow assignor to said Agnew. Golf-club carrier. 1,696,062; Dec. 18.
Thurneyssen, Guy T., Paris, France. Joint and connection. 1,695,830; Dec. 18.
Tiffany, Leverett W., Winsted, Conn. Assorting machine. 1,695,395; Dec. 18.
Tillotson, Harry C., E. A. Rullison, and C. W. McKinley, assignors to The Tillotson Manufacturing Co., Toledo, Ohio. Carburetor. 1,695,671; Dec. 18.
Tillotson Manufacturing Co., The. (See Tillotson, H. C., Rullison, and McKinley, assignors.)
Tilton, Webster, St. Louis County, assignor to Gardner Motor Company, Inc., St. Louis, Mo. Motor-car body. Des. 77,267; Dec. 18.
Timken-Detroit Axle Company, The. (See Brownyer, Nelson R., assignor.)
Titanium Pigment Company. (See Barton, L. E., and Kinzie, assignors.)
Titcomb, Lee R., Brooklyn, and H. S. Ashmun, New York, N. Y. Pipe-cleaning device. 1,695,831; Dec. 18.
Titgen, Harry W., Philadelphia, Pa. Sand cleaning and reclaiming unit. 1,696,064; Dec. 18.
Tomkinson, Charles C., Plainfield, N. J., assignor to J. E. Ogden, Mountainville, N. Y. Anchor. 1,695,303; Dec. 18.
Toney, Edward, assignor to The Kawneer Company, Niles, Mich. Molding. Des. 77,268; Dec. 18.
Toney, Edward, assignor to The Kawneer Company, Niles, Mich. Molding. Des. 77,269; Dec. 18.
Toney, Edward, assignor to The Kawneer Company, Niles, Mich. Molding. Des. 77,270; Dec. 18.
Tost, Charles R., Centerdale, assignor to The Hadley Company, Providence, R. I. Cord watch bracelet. 1,695,747; Dec. 18.
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Time-element electroresponsive device. 1,695,723; Dec. 18.
Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Time-element electroresponsive device. 1,695,748; Dec. 18.
Train Control Corporation of America. (See Clifford, Patrick J., assignor.)
Traub Company, Inc. (See Traub, Lazar M., assignor.)
Traub, Lazar M., Brookline, assignor to Traub Company Inc., Boston, Mass. Bottle cover, especially adapted for the use with milk bottles. 1,695,396; Dec. 18.
Trautmann, Otto C., New York, N. Y. Acid-concentrating chamber. 1,695,619; Dec. 18.
Trautner, Willy. (See Berliner, R., Stein, and Trautner.)
Trautwein, George F. (See Walker, C. J., and Trautwein.)
Travis, Bertram C., assignor of one-half to M. Levy, Los Angeles, Calif. Pipe-slotting machine. 1,695,513; Dec. 18.
Trent, Harley H., Bozeman, Mont. Folding handle for frying pans and the like. 1,695,724; Dec. 18.
Trew, James W., Baltimore, Md. Upholstering welt. 1,695,444; Dec. 18.
Trico Products Corporation. (See Folberth, Frederick G. and W. M., assignors.)
Trico Products Corporation. (See Oishei, John R., assignor.)
Trimble, E. M., Mfg. Co. Inc. (See Baxter, William C., assignor.)
True, Thomas A., Declo, Idaho. Seed-potato cutter. 1,695,905; Dec. 18.
Trumbull Electric Manufacturing Company. (See Getchell, Benjamin E., assignor.)
Truscon Steel Company. (See Kane, Thomas H., assignor.)
Tucker, Ralph H., Los Angeles, Calif. Exhaust sleeve for deep-well air pumps. 1,696,065; Dec. 18.
Turcotte, Louis J., Montreal, Quebec, Canada. Window construction. 1,696,130; Dec. 18.
Turkington, Victor H., Caldwell, N. J., assignor to Bakelite Corporation, New York, N. Y. Phenolic resin composition. 1,695,566; Dec. 18.
Turner, Charles P., Mishawaka, Ind. Boat-propelling device. 1,695,304; Dec. 18.
Turner, Richard G., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Feeler in transferrer arm. 1,695,397; Dec. 18.
Turner Tanning Machinery Company, The. (See Koeniger, Karl W., assignor.)
Tyndall, Jessie C., St. Louis, Mo. Toy balloon. Des. 77,271; Dec. 18.
Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Centrifugal pipe-casting machine and mold. 1,695,514; Dec. 18.
Uhrig, John H., Beverly, assignor to United States Cast Iron Pipe & Foundry Company, Burlington, N. J. Transporting mechanism for pipe-annealing furnaces. 1,695,515; Dec. 18.
Underwood Elliott Fisher Company. (See Smith, Jesse A. B., assignor.)
Underwood, Western, Los Angeles, Calif. Street-lighting post. Des. 77,272; Dec. 18.
Union Bag and Paper Corporation. (See Gibson, J. R., and Avery, assignors.)
Union Metal Products Company. (See Graham, Leslie B., assignor.)
Union Metal Products Company. (See Small, Arthur E., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
United Engineering & Foundry Company. (See Biggert, Florence C., jr., assignor.)
United Shank & Findings Company. (See Dodge, William G., assignor.)
United Shoe Machinery Corporation. (See Conner, Charles E., assignor.)
United Shoe Machinery Corporation. (See Glass, P. R., and Elliott, assignors.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Mayo, Benjamin F., assignor.)
United Shoe Machinery Corporation. (See Proulx, Walter, assignor.)

United Shoe Machinery Corporation. (See Pym, Charles F., assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Reid, assignors.)
United States Cast Iron Pipe & Foundry Company. (See Uhrig, John H., assignor.)
United States Ordnance Company. (See Dawson, A. T., and Buckham, assignors.)
Universal Draft Gear Attachment Co. (See Camp, Percy B., assignor.)
Universal Tide Power Co. (See Knowlton, John A.)
Unwin, Kenneth J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side-slip weft detector. 1,695,398; Dec. 18.
Upton, Charles B., assignor to The French Oil Mill Machinery Co., Piqua, Ohio. Ram. 1,695,305; Dec. 18.
Vagneux, Edmond F. L., Paris, France. Wooden plug for anchoring rails on concrete supports. 1,696,131; Dec. 18.
Van Berkel, Cornelis F. M., Wassenaar, assignor to Naamlooze Vennootschap Maatschappij tot Veraardiging van Snijmachines volgens van Berkel's Patent en van andere Werktuigen, Rotterdam, Netherlands. Computing scale. 1,695,620; Dec. 18.
Van Buren, John, Brooklyn, N. Y. Wrapping and labeling machine. 1,696,020; Dec. 18.
Van Husen, Norman. (See Jandus, H. S., and Van Husen.)
Van Osdel, William J., Chicago, Ill. Clipper. 1,695,516; Dec. 18.
Vaughan, Victor G., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric air heater. 1,695,870; Dec. 18.
Vautrin, Fernand E., Cleveland, Ohio. Figure wheeled toy. 1,695,475; Dec. 18.
Veale, George W., Cleveland Heights, assignor to The Eaton Axle & Spring Company, Cleveland, Ohio. Bumper. 1,695,786; Dec. 18.
Venn, Henry L., River Forest, assignor to Century Rubber Works, Cicero, Ill. Tire. Des. 77,273; Dec. 18.
Venn, Henry L., River Forest, assignor to Century Rubber Works, Cicero, Ill. Tire. Des. 77,274; Dec. 18.
Vesley, Charles J., Portland, Oreg. Display stand. 1,695,935; Dec. 18.
Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)
Vickers Limited. (See Dawson, A. T., Watt, and Perham, assignors.)
Victor Adding Machine Company. (See Garbell, Max, assignor.)
Vincent, Harry S., Ridgewood, N. J., assignor to Franklin Railway Supply Company. Locomotive construction. 1,695,399; Dec. 18.
Vining, De Quincey, Manchester, Ga. Fastener for sliding doors. 1,696,021; Dec. 18.
Vogel, Joseph A., Company. (See Vogel, J. A., and Jennings, assignors.)
Vogel, Joseph A., and A. J. Jennings, assignors to Joseph A. Vogel Company, Wilmington, Del. Flushing mechanism. 1,695,621; Dec. 18.
Voreaux, Paul, assignor of one-half to Société "Etablissements Samga & Bavox Réunis," Paris, France. Air pump. 1,695,401; Dec. 18.
Voss, William H., Davenport, Iowa. Link driving mechanism for washing machines. 1,695,400; Dec. 18.
Wachsmuth, Albert J., Muskegon, Mich. Artificial-cane-making apparatus. 1,695,622; Dec. 18.
Wagner Electric Corporation. (See Wolff, Carl H., assignor.)
Wagoner, Samuel O., Pasadena, assignor of one-half to H. E. Robinson and one-half to K. Howard, Los Angeles, Calif. Ironing board. 1,696,145; Dec. 18.
Wakefield, Walter H., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detector mounted on indicating plunger of regularly-moving transferrer arm. 1,695,402; Dec. 18.
Waldbauer, Carl A., Chicago, Ill. Garment hanger and protective device therefor. 1,695,517; Dec. 18.
Waldman, Herman C., St. Louis, Mo. Elevator-door-operating mechanism. 1,695,988; Dec. 18.
Waldron, John, Corporation. (See Case, Lynn B., assignor.)
Walker, Carl F. (See Christian, C. H., and Walker.)
Walker, Clarence J., Salina, Kans., and G. F. Trautwein, Kansas City, Mo. Automobile seat construction. 1,695,871; Dec. 18.
Wallenthin, Walfrid, assignor to The Associated Attleboro Manufacturers, Inc., Attleboro, Mass. Lighter. Des. 77,275; Dec. 18.
Wappler Electric Company. (See Fayer, Charles, assignor.)
Wappler, Reinhold H., Yonkers, assignor to American Cystoscope Makers, Inc., Long Island City, N. Y. Rearward-vision surgical telescope. 1,695,672; Dec. 18.
Warner, Clarence. (See Buvinger, G. A., and Warner.)
Watson, George D., Torrance, Calif. Cleaning casings. 1,695,749; Dec. 18.
Watson, Glenn W., Detroit, Mich. Electric lock. 1,695,518; Dec. 18.
Watt, George E. (See Dawson, A. T., Watt, and Perham.)
Wayland, Edwin M., Covesville, Va. Up-edging means for fruit sizers. 1,696,066; Dec. 18.
Webber, George R., Augusta, Me. Casing for a vending machine. Des. 77,276; Dec. 18.
Webber, William. (See Benjamin, B. R., Raney, and Webber.)
Weber, Harry M., assignor to Ellis-Foster Company, Montclair, N. J. Animal food. 1,695,567; Dec. 18.
Weber, Heinrich H., Maspeth, N. Y. Egg boiler. 1,695,832; Dec. 18.
Webster, Evan S. (See Reese, Henry A., assignor.)
Webster, Francis H., St. Louis, Mo. Rim tool. 1,695,403; Dec. 18.
Wehr, William G., East Cleveland, assignor to The Cleveland Crane & Engineering Company, Wickliffe, Ohio. Hoist-trolley frame. 1,695,623; Dec. 18.
Weir, G. & J., Limited. (See Weir, James G., assignor.)
Weir, James G., Cathcart, Glasgow, assignor to G. & J. Weir, Limited, Glasgow, Scotland. Power plant. 1,695,936; Dec. 18.
Weiss, Howard F., Madison, Wis., assignor, by mesne assignments, to Wood Conversion Company, Cloquet, Minn. Food product. 1,695,445; Dec. 18.
Welch, Duraine E., Upper Sandusky, Ohio. Concrete shingle block for building walls. Des. 77,277; Dec. 18.
Welch, Frank M., St. Paul, Minn. Toy game. 1,695,937; Dec. 18.
Welch, George R., assignor, by mesne assignments, to Handy Governor Corporation, Detroit, Mich. Vaporizer. 1,695,833; Dec. 18.
Welch, Walter H., Bristol, England. Rim-contracting device. Re17,167; Dec. 18.
Welpley, Walter W., Hawthorne, assignor of one-half to H. C. Proulx, Pasadena, Calif. Game apparatus. 1,695,624; Dec. 18.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Pneumatically-operated station. 1,695,906; Dec. 18.
Wensley, Roy J., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical relay. 1,695,907; Dec. 18.
Wermeille, Werner, St.-Aubin, Switzerland. Measuring instrument. 1,696,132; Dec. 18.
Western Electric Company. (See Gorton, William S., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Ray, William H., assignor.)
Western Wire Products Company. (See Young, Lee C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Aiken, Joseph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Atherton, Alfred L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, Arthur L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Callsen, Albert, assignor.)
Westinghouse Electric & Manufacturing Company. (See Carpenter, Cranston H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Clark, Earl K., assignor.)
Westinghouse Electric & Manufacturing Company. (See Colby, Ora A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conant, David J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)
Westinghouse Electric & Manufacturing Company. (See Chrichton, Leslie N., assignor.)
Westinghouse Electric and Manufacturing Company. (See Dann, W. M., Hill, and Sipher, assignors.)
Westinghouse Electric & Manufacturing Company. (See Finnen, William J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanzlik, Henry J., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kintner, Samuel M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lincoln, Rollo B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Little, D. G., and Davis, assignors.)
Westinghouse Electric & Manufacturing Company. (See MacFarland, Allis M., assignor.)
Westinghouse Electric & Manufacturing Company. (See McCulloch, Leon, assignor.)
Westinghouse Electric & Manufacturing Company. (See Mochel, Norman L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ponsonby, Amos A., assignor.)
Westinghouse Electric and Manufacturing Company. (See Reiter, Franz, assignor.)
Westinghouse Electric & Manufacturing Company. (See Richter, Hans, assignor.)
Westinghouse Electric and Manufacturing Company. (See Rutter, A. R., and Myllus, assignors.)
Westinghouse Electric & Manufacturing Company. (See Sandfield, Michael, assignor.)
Westinghouse Electric & Manufacturing Company. (See Schmitt, Georg, assignor.)
Westinghouse Electric & Manufacturing Company. (See Sessinghaus, Johannes, assignor.)
Westinghouse Electric & Manufacturing Company. (See Soderberg, Carl R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Specht, Hans C., assignor.)





Westinghouse Electric & Manufacturing Company. (See Speiser, Gottlieb, assignor.)
Westinghouse Electric & Manufacturing Company. (See Stickney, Fernald S., assignor.)
Westinghouse Electric & Manufacturing Company. (See Stolz, Joseph, assignor.)
Westinghouse Electric and Manufacturing Company. (See Sutherland, E. E., and Forshee, assignors.)
Westinghouse Electric & Manufacturing Company. (See Vaughan, Victor G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Wensley, Roy J., assignor.)
Westinghouse Electric & Manufacturing Company. (See White, T. U., and Gardner, assignors.)
Westinghouse Electric & Manufacturing Company. (See Woodson, James C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Zworykin, Vladimir K., assignor.)
Westinghouse Lamp Company. (See Hallock, George W., assignor.)
Westinghouse Lamp Company. (See Higgins, John J., assignor.)
Westinghouse Lamp Company. (See Marden, J. W., and Richardson, assignors.)
Westinghouse Lamp Company. (See O'Neill, George D., assignor.)
Westinghouse Lamp Company. (See Whitmore, James B., assignor.)
Westlin, Carl T. (See Hymans, F., and Westlin.)
Westling Herman, Watertown, assignor to Cambridge Rubber Company, Cambridge, Mass. Overshoe. Des. 77,278; Dec. 18.
Weston, Frederick W., Chicago, Ill. Cooling-system control. 1,695,446; Dec. 18.
Westwick, John W., sr., Galena, Ill. Furnace. 1,696,067; Dec. 18.
Weyer, Elliott R., Washington, Pa. Fermentation process. 1,696,022; Dec. 18.
Wheeler, George E., assignor to The Burlington Separator Co., Burlington, Iowa. Churn. 1,695,404; Dec. 18.
Wheeler, William I., Scottville, Ill. Clutch mechanism. 1,695,355; Dec. 18.
Wheeler, William I., Scottville, Ill. Transmission mechanism. 1,695,356; Dec. 18.
White, Henry, jr., Buffalo, N. Y. Antirattler for doors and windows. 1,695,872; Dec. 18.
White Motor Company, The. (See Kinney, L. W., and Bierman, assignors.)
White Motor Company, The. (See Smith, George W., jr., assignor.)
White, Thomas U., Pittsburgh, and J. E. Gardner, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Supervisory control system. 1,695,908; Dec. 18.
Whiteley, Robert H., Oak Park, Ill., assignor to himself as trustee. Lubricating device. 1,695,750; Dec. 18.
Whitmore, James B., Bloomfield, N. J., assignor to Westinghouse Lamp Company. Machine for manufacturing stems for tipless lamps. 1,695,834; Dec. 18.
Whittall, M. J., Associates. (See Bauer, Marius A., assignor.)
Wiberg, Oscar A., Finspong, Sweden. Radial-flow turbine. 1,695,751; Dec. 18.
Wiemer, Lawrence F., Burlington, Wis. Milk strainer. 1,695,306; Dec. 18.
Wilcox-Rich Corporation. (See Rich, George R., assignor.)
Wild, Henry W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Lip-stick container. 1,695,625; Dec. 18.
Wilhelm, John H., Long Island, assignor to Markon Manufacturing Co., Inc., New York, N. Y. Crier. 1,695,675; Dec. 18.
Williams Alloy Products Company. (See Williams, Edward M., assignor.)
Williams, Edward M., assignor to Williams Alloy Products Company, Elyria, Ohio. Making piston rings. 1,695,787; Dec. 18.
Williams, G. H., Company. (See Buoy, Chester D., assignor.)
Williams, Harrison R., Chicago, Ill. Paper-making machine. 1,695,873; Dec. 18.
Williams, Percy Q., assignor to The Owens Bottle Company, Toledo, Ohio. Glassware-annealing leer. 1,695,788; Dec. 18.
Willners, John A., Philadelphia, assignor to Penn Utility Company, Conshohocken, Pa. Locking device for closures. 1,695,405; Dec. 18.
Willshaw, Harry, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation of America, Buffalo, N. Y. Vulcanizing apparatus. 1,695,835; Dec. 18.
Willson Products, Inc. (See Shindel, Harry F., assignor.)
Wilson, Edwin B., Forest Hills, assignor to Design Laboratories, Incorporated, New York, N. Y. Christmas-tree ornament. 1,695,307; Dec. 18.
Wilson, Prescott C., Brooklyn, N. Y. Traveling sail-securing device. 1,695,673; Dec. 18.
Wilson, Prescott C., Brooklyn, N. Y. Traveler slide for sail attachments. 1,695,674; Dec. 18.
Wilt, Frank E., Zanesville, Ohio. Gas vent for gas stoves. 1,695,308; Dec. 18.
Winkler, Louis G., assignor to Parts Corporation, Indianapolis, Ind. Countersinking holes in metal. 1,695,476; Dec. 18.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Co., Milwaukee, Wis. Control mechanism. 1,695,938; Dec. 18.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Dash switch. 1,695,939; Dec. 18.
Winning, Robert K., Wauwatosa, assignor to Clum Manufacturing Company, Milwaukee, Wis. Electric switch. 1,695,940; Dec. 18.
Withycombe, Robert M., Sydney, New South Wales, Australia. Artificial denture. 1,696,068; Dec. 18.
Witmer, Victor M., Milwaukee, Wis. Machine for bending bars. 1,695,836; Dec. 18.
Woldert, Alex, Company. (See Gradick, Wiley N., assignor.)
Wolf, Albert, et al. (See Wolf, Howard A., assignor.)
Wolf, Benjamin, et al. (See Wolf, Howard A., assignor.)
Wolf Brothers. (See Wolf, Howard A.)
Wolf, Elias, et al. (See Wolf, Howard A., assignor.)
Wolf, Howard, et al. (See Wolf, Howard A., assignor.)
Wolf, Howard A., Elkins Park, assignor, by mesne assignments, to H., B., E., L., and A. Wolf, copartners, doing business as Wolf Brothers, Philadelphia, Pa. Paper bag. 1,695,568; Dec. 18.
Wolf, Louis, et al. (See Wolf, Howard A., assignor.)
Wolfe, Otto L., San Francisco, Calif. Rotary chair. 1,695,725; Dec. 18.
Wolff, Carl H., assignor, to Wagner Electric Corporation, St. Louis, Mo. Short-circuiting mechanism. 1,695,789; Dec. 18.
Wolfram, Arthur, and H. Greune, Hochst-on-the-Main, Germany, assignors to Grasselli Dyestuff Corporation, New York, N. Y. Bz-methyl benzanthrones and preparing the same. 1,695,622; Dec. 18.
Wood Conversion Company. (See Weiss, Howard F., assignor.)
Wood, Frank H., and F. C. Barnard, Ithaca, N. Y. Engine. 1,696,071; Dec. 18.
Wood, James A., Toledo, Ohio, assignor to Liquo-Gas Company, Erie, Pa. Burner. 1,696,069; Dec. 18.
Wood, James A., Toledo, Ohio, assignor to Liquo-Gas Company, Erie, Pa. Valve. 1,696,070; Dec. 18.
Wood, John H. P., Albany, N. Y. Automatic temperature regulator. 1,695,309; Dec. 18.
Woodhull, Samuel T., Winchester, assignor to The Amrad Corporation, Medford, Mass. Electrolytic cell. 1,695,989; Dec. 18.
Woodruff, John C., G. Bloomfield, and W. J. Bannister, assignors to Commerical Solvents Corporation, Terre Haute, Ind. Catalyst for synthetic methanol production. 1,695,447; Dec. 18.
Woodson, James C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Electric furnace. 1,695,874; Dec. 18.
Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)
Woodstock Typewriter Company. (See Youngberg, Conrad D., assignor.)
Woodward-Wanger Company. (See Duryea, Paul G., assignor.)
Woolson, Lionel M., assignor to Packard Motor Car Company, Detroit, Mich. Valve-operating mechanism. 1,695,726; Dec. 18.
Worden, Ira L., Wichita, Kans. Automobile antiglare shield. 1,695,357; Dec. 18.
Worthington Pump and Machinery Corporation. See Gage, Walter C., assignor.)
Woytych, Raymond M., Fond du Lac, Wis., assignor, by mesne assignments, to The Heald Machine Company, Worcester, Mass. Work holder. 1,695,752; Dec. 18.
Wright, Bartley J., et al. (See McCollum, James H. K., assignor.)
Wright, William, assignor, by mesne assignments, to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car roof. 1,695,727; Dec. 18.
Wurdack, Isabelle K., Normandy, Mo. Chair. 1,695,790; Dec. 18.
Wüstendörfer, Philipp, Furth, Germany. Somersaulting toy. 1,695,310; Dec. 18.
Yale Electric Corporation. (See Casella, Secondo L., assignor.)
Yale & Towne Manufacturing Company, The. (See Lach, Joseph S., assignor.)
Yale & Towne Manufacturing Company, The. (See Soley, Frank, assignor.)
Yeandle, William H., Torreon, Mexico, assignor to Intercontinental Rubber Company, Wilmington, Del. Recovery of rubber. 1,695,676; Dec. 18.
Yoerg, Leon M., assignor, by mesne assignments, to American Writing Paper Company, Incorporated, Holyoke, Mass. Paper-making machine. 1,695,448; Dec. 18.
Young, Charles E., Rochester, Minn. Button. 1,696,133; Dec. 18.
Young, Clarence H., Boston, Mass. Shoe stick. 1,695,702; Dec. 18.
Young, Forrest J., Torrance, Calif., assignor to The National Supply Company, Toledo, Ohio. Casing swab. 1,695,406; Dec. 18.
Young, Fred M., assignor to Perfex Corporation, Racine, Wis. Sectional radiator. 1,695,519; Dec. 18.
Young, Lee C., assignor, by mesne assignments, to Western Wire Products Company, St. Louis, Mo. Pipe-vise stand. 1,695,311; Dec. 18.

Youngberg, Conrad D., assignor to Woodstock Typewriter Company, Woodstock, Ill. Case-shift mechanism for typewriters. 1,695,520; Dec. 18.
Yunck, John A., South Orange, N. J. Leading-in wire for evacuated containers and making same. 1,695,791; Dec. 18.
Zeindlhofer, Anton, Vienna, Austria, assignor to Groove Lock Co. Inc., New York, N. Y. Receptacle. 1,695,477; Dec. 18.
Zeman, Anton, Chicago, Ill. Internal-combustion engine. 1,695,792; Dec. 18.
Zerk, Oscar, now, by judicial change of name, O. U. Zerk, Cleveland, Ohio, assignor, by mesne assignments, to Alemite Manufacturing Corporation, Chicago, Ill. Grease gun. 1,695,627; Dec. 18.
Zerk, Oscar U. (See Zerk, Oscar.)
Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for intaglio-printing machines. 1,695,793; Dec. 18.
Zworykin, Vladimir K., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. Mercury-arc device. 1,696,023; Dec. 18.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 18TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acid-concentrating chamber. O. C. Trautmann. 1,695,619; Dec. 18.
Acid, Production of phosphoric. A. Noble. 1,695,558; Dec. 18.
Acid synthetically, Producing hydrochloric. W. Hirschkind and C. W. Schedler. 1,695,552; Dec. 18.
Air conditioner. D. Head. 1,695,426; Dec. 18.
Air heater, Electric. V. G. Vaughan. 1,695,870; Dec. 18.
Airplane strut terminal, Adjustable. J. C. Sanders. 1,695,611; Dec. 18.
Airship with mixed sustentation. G. Tallei. 1,695,394; Dec. 18.
Alloy base for oxide-coated cathodes. G. W. Hallock. 1,695,845; Dec. 18.
Alloy steel. G. J. Comstock. 1,695,916; Dec. 18.
Anchor. C. C. Tomkinson. 1,695,303; Dec. 18.
Anchor, Concrete. W. E. Bilhorn. 1,695,523; Dec. 18.
Anchor, Rail. F. G. Freese and R. C. Paxson. 1,695,998; Dec. 18.
Annealing or heating furnace, Electric. W. Rohn. 1,695,860; Dec. 18.
Anti-rail-creeping device. J. B. Brownridge. 1,695,993; Dec. 18.
Antirattler for doors and windows. H. White, jr. 1,695,872; Dec. 18.
Areaway construction. U. J. Magill. 1,695,810; Dec. 18.
Article carrier. H. V. Chandler. 1,696,029; Dec. 18.
Assorting machine. L. W. Tiffany. 1,695,395; Dec. 18.
Auto jack. C. M. Coffman. 1,695,881; Dec. 18.
Auto repair light. E. P. Tabor. 1,695,670; Dec. 18.
Automobile body, hood, and fenders, Combination. E. W. Goodwin. Des. 77,231; Dec. 18.
Automobile instrument panel. E. N. Jacobi. Des. 77,236; Dec. 18.
Automobiles, Adjustable arm rest for. J. Hausler. 1,695,549; Dec. 18.
Axle, Change-speed. E. J. Hall. 1,695,585; Dec. 18.
Axminster tube frame. E. F. Hathaway. 1,696,163; Dec. 18.
Bag: *See*—
Garment bag. Shopping bag.
Paper bag.
Bag and food cooler, Combined water. J. W. and H. K. Day. 1,696,138; Dec. 18.
Baking pan. J. G. Jackson. 1,696,004; Dec. 18.
Balancing machine. C. R. Soderberg. 1,695,904; Dec. 18.
Banjo rim. A. D. Grover. 1,695,282; Dec. 18.
Bar for plate-glass windows, Adjustable corner. H. A. Olsson. 1,695,973; Dec. 18.
Barrel, Metallic. J. H. George. 1,696,112; Dec. 18.
Bathroom fixture. P. G. Duryea. Des. 77,228; Dec. 18.
Beam structure, Brake-. F. T. De Long. 6,195,416; Dec. 18.
Bed. W. Mingle and H. M. Jackson. 1,695,772; Dec. 18.
Billing machine, Power-driven. V. D. Mansfield. 1,695,769; Dec. 18.
Binder, French cord. W. J. Reagan. 1,695,977; Dec. 18.
Binder, Power-drive grain. B. R. Benjamin, C. R. Raney, and W. Webber. 1,695,522; Dec. 18.
Blending and sifting device, Combined. W. G. Kirchhoff. 1,696,093; Dec. 18.
Block: *See*—
Building block.
Board: *See*—
Ironing board. Paper-hanger's board.
Bobbin trimming and cleaning machine. S. L. Casella. 1,695,681; Dec. 18.
Boiler: *See*—
Egg boiler.
Book, Adjustable reference. W. A. Gordon, J. J. Murphy, and P. Perrone. 1,695,328; Dec. 18.
Bookholder. W. V. Johnson. 1,695,767; Dec. 18.
Booklet. M. A. Berns. 1,695,315; Dec. 18.
Bookrest. B. E. Dahlgren. Des. 77,224; Dec. 18.
Bolster with absorption mechanism. P. R. Drenning. 1,695,456; Dec. 18.
Boron compounds, Mining. H. Blumenberg, jr. 1,696,075; Dec. 18.
Bottle closure. O. N. Tevander. 1,695,301; Dec. 18.
Bottle cover, especially adapted for use with milk bottles. L. M. Traub. 1,695,396; Dec. 18.
Bottle, Metallic milk. T. N. Harrison, jr. 1,695,920; Dec. 18.
Bottle, Vacuum. E. Edquist. 1,695,540; Dec. 18.
Box: *See*—
Mail box.
Box. F. J. Schleicher. Des. 77,260; Dec. 18.
Box base and damper, Combined. C. C. Shipp. 1,696,105; Dec. 18.
Box board or caddy stock. J. M. Andrews. 1,695,837; Dec. 18.
Box or sealing means for compressors and the like, Stuffing. W. H. Carrier. 1,695,320; Dec. 18.
Brace: *See*—
Hat brace.
Bracelet, Cord watch. C. R. Tost. 1,695,747; Dec. 18.
Bracket: *See*—
Shade bracket. Wall-paper bracket.
Brake: *See*—
Vehicle brake.
Brake. W. Rueppel and L. Cone. 1,695,665; Dec. 18.
Brake drum. W. N. Booth. 1,695,526; Dec. 18.
Brake for conveyers. H. Armstrong. 1,696,072; Dec. 18.
Breathing device, Self-contained lung-power. A. B. Dräger. 1,695,537; Dec. 18.
Brick, Arch. R. J. Himmelright. 1,695,459; Dec. 18.
Brooch or similar article. B. Mechlovits. Des. 77,249; Dec. 18.
Buck for clothes-pressing machines. J. H. Ellis. 1,695,760; Dec. 18.
Buckle, Belt. R. F. Elchner. Des. 77,222; Dec. 18.
Buckle, Belt. E. S. Mix. Des. 77,253; Dec. 18.
Buckle, Slide. A. H. Kerngood. 1,696,166; Dec. 18.
Building block. G. Studley, jr. 1,695,443; Dec. 18.
Bumper. H. S. Jandus and C. E. Rasmussen. Des. 77,238; Dec. 18.
Bumper. G. W. Veale. 1,695,786; Dec. 18.
Bumper, Automobile. J. N. Heltzel. 1,695,653; Dec. 18.
Bumper, Automobile. J. M. Reifsnider. 1,695,294; Dec. 18.
Bumper mounting. A. W. Nordgren. 1,695,602; Dec. 18.
Bumpers, Mask plate for vehicle. H. S. Jandua and N. Van Husen. Des. 77,237; Dec. 18.
Burial-casket handle. C. Blesch. Des. 77,216; Dec. 18.
Burner: *See*—
Fuel burner. Gas burner.
Burner. J. A. Wood. 1,696 069; Dec. 18.
Button. E. Cavicchi. 1,695,482; Dec. 18.
Button. C. E. Young. 1,696,133; Dec. 18.
Bz-methyl benzanthrones and preparing the same. A. Wolfram and H. Greune. 1,695,626; Dec. 18.
Cab, Baby. H. B. Banks. 1,695,409; Dec. 18.
Cabinet, Combination. F. B. Kaufman. 1,695,335; Dec. 18.
Cabinet, Combined display and vending. R. G. Fishel. Des. 77,229; Dec. 18.
Cabinet, Vegetable. M. Halpert. Des. 77,233; Dec. 18.
Cake forming and depositing machine. J. Moores. 1,696,099; Dec. 18.
Calendar. W. H. Draughon. 1,695,539; Dec. 18.
Calendar stitcher, Automatic. F. J. Kristofek and O. W. Hammerquist. 1,695,897; Dec. 18.
Call selector. L. L. Chauveau. 1,695,840; Dec. 18.
Camera, Roll-holding. B. McCandless. 1,695,382; Dec. 18.
Camp convenience chair. J. Harrison. 1,695,374; Dec. 18.
Can. A. C. Johnson. 1,695,286; Dec. 18.
Cans, Distributor attachment for oil. F. W. Lawyer. 1,696,046; Dec. 18.
Candlestick or similar article. M. A. Buchwalter. Des. 77,217; Dec. 18.
Cane-making apparatus, Artificial-. A. J. Wachsmuth. 1,695,622; Dec. 18.
Cant support and guide. T. E. Camp. 1,695,757; Dec. 18.
Cap, Motoring. J. Levinsky. 1,695,596; Dec. 18.
Car coupler. W. Kelso. 1,696,040; Dec. 18.
Car wheel. N. R. Brownyer. 1,695 529; Dec. 18.
Carburetor. W. H. C. Higgins, jr. 1,695,550; Dec. 18.
Carburetor. H. C. Tillotson, E. A. Rullison, and C. W. McKinley. 1,695,671; Dec. 18.
Carburetor for powdered coal. O. A. Kreutzberg. 1,696,041; Dec. 18.
Carburizer. F. C. Langenberg. 1,695,337–8; Dec. 18.
Card, Hand. I. C. Howes. 1,695,765; Dec. 18.
Card, Playing. M. T. Hartnacke. 1,695,425; Dec. 18.
Carpet. A. Oakley. Des. 77,255; Dec. 18.
Carriage for drilling mechanism. E. C. Holmes. 1,695,493; Dec. 18.
Carrier: *See*—
Article carrier. Golf-club carrier.
Case: *See*—
Storage-battery case. Vanity case.
Casing. C. H. Seifert. 1,695,298; Dec. 18.
Casing for a vending machine. G. R. Webber. Des. 77,276; Dec. 18.
Casing-head packer and blow-out preventer, Combined. J. Bergsten. 1,695,992; Dec. 18.
Casing, Shrink-head. F. H. Chapin. 1,695,797; Dec. 18.
Casing swab. F. J. Young. 1,695,406; Dec. 18.
Casting machine and mold, Centrifugal pipe-. J. H. Uhrig. 1,695,514; Dec. 18.
Casting means for typographical machines. F. E. Barber. 1,696,074; Dec. 18.

Catalyst for synthetic methanol production. J. C. Woodruff, G. Bloomfield, and W. J. Bannister. 1,695,447; Dec. 18.
Catalyst, Producing a new. K. Schirmacher, F. Stolz, H. Schlichenmaier, and W. Krohs. 1,695,666; Dec. 18.
Catalytic agent and preparing the same. W. A. Patrick. 1,695,740; Dec. 18.
Cathode rectifiers, Balancing means for hot-. A. L. Atherton. 1,696,025; Dec. 18.
Cement. C. Ellis. 1,695,637; Dec. 18.
Cement mixings for cold glazes or the like, Composition to be added to. J. Langbein. 1,695,808; Dec. 18.
Cement, Refractory. J. W. Marden and H. K. Richardson. 1,695,812; Dec. 18.
Centrifuge. L. Altpeter. 1,695,900; Dec. 18.
Chaffer for thrashers. S. W. Cady. 1,695,532; Dec. 18.
Chain. R. Kollmar. 1,695,462; Dec. 18.
Chain, Bracelet. E. Prestinari. 1,695,505; Dec. 18.
Chair: *See*—
Camp convenience chair. Rotary chair.
Chair. E. D. Bump. 1,696,153; Dec. 18.
Chair. I. K. Wurdack. 1,695,790; Dec. 18.
Chair-seat mounting. S. M. Bump. 1,696,154; Dec. 18.
Chart, Accounting-machine demonstration. J. A. B. Smith. 1,695,700; Dec. 18.
Chart, Printing. W. W. Gyllenberg. 1,695,423; Dec. 18.
Chemical product and making the same. C. Ellis. 1,695,636; Dec. 18.
Chuck and roller feed, Automatic. E. J. Hornberger. 1,696,037; Dec. 18.
Churn. G. E. Wheeler. 1,695,404; Dec. 18.
Circuit breaker, Automatically-reclosing. E. C. Raney. 1,695,506; Dec. 18.
Circuit-controlling means. T. R. Harrison. 1,695,488; Dec. 18.
Clamp: *See*—
Hose and tube clamp. Safety clamp.
Clasp: *See*—
Lingerie clasp. Watch-bracelet clasp.
Cleaner: *See*—
Suction cleaner. Windshield cleaner.
Cleaning and imparting rust-inhibitive properties to steel, Agent for. J. D. Klinger. 1,695,430; Dec. 18.
Cleaning casings. G. D. Watson. 1,695,749; Dec. 18.
Cleaning device, Pipe-. L. R. Titcomb and H. S. Ashmun. 1,695,831; Dec. 18.
Cleaning lubricant cases of engines. W. L. Osborne. 1,696,100; Dec. 18.
Clip for securing wood to iron beams. R. R. Seward and J. A. Booe. 1,696,104; Dec. 18.
Clipper. W. J. Van Osdel. 1,695,516; Dec. 18.
Clock, Savings. K. Landenberger. 1,695,593; Dec. 18.
Clutch mechanism. W. I. Wheeler. 1,695,355; Dec. 18.
Clutch mechanism for bar machines. L. A. Frayer. 1,695,954; Dec. 18.
Coat and trousers hanger, Combined. R. E. Edmundson. 1,695,580; Dec. 18.
Coating composition and making same. C. Ellis. 1,695,638; Dec. 18.
Coating machine. L. B. Case. 1,695,319; Dec. 18.
Coil, Testing. M. E. Berlowitz. 1,695,679; Dec. 18.
Coin-operative device. F. Q. Rast. 1,695,439; Dec. 18.
Collar. G. T. Sweetser. 1,695,474; Dec. 18.
Collector ring. D. J. Conant. 1,695,884; Dec. 18.
Colloid mill. A. Fraser. 1,696,083; Dec. 18.
Comb slide, binder, or the like for ladies' hair. C. E. Stacey. 1,695,986; Dec. 18.
Combustion control in steam-boiler furnaces. F. H. Linley. 1,695,431; Dec. 18.
Compensating apparatus for pantographs. J. H. Larrabee. 1,695,881; Dec. 18.
Composition of matter. H. R. Ladislaus. 1,695,693; Dec. 18.
Compressor. D. F. Smith. 1,695,721; Dec. 18.
Compressor for dental and other purposes, Air. J. E. Reid. 1,696,013; Dec. 18.
Compressor, Lubricant. O. J. Herb. 1,695,588; Dec. 18.
Compressor, Tube. H. Gollomb. 1,695,280; Dec. 18.
Compressor, Valve-spring. A. Jones. 1,696,090; Dec. 18.
Concrete reenforcement. F. M. Barton. 1,695,269; Dec. 18.
Concrete shingle block for building walls. D. E. Welch. Des. 77,277; Dec. 18.
Condenser. M. H. Bennett. 1,695,479; Dec. 18.
Condenser, Electrical. E. B. Nowosielski. 1,695,778; Dec. 18.
Constant-level device. F. O. and T. M. Ball. 1,695,705; Dec. 18.
Contact mechanism for typewriter-key punches. W. W. Lasker and C. A. Mazger. 1,695,965; Dec. 18.
Container. A. H. Dreux. 1,695,802; Dec. 18.
Container. C. Stollberg. 1,695,563; Dec. 18.
Container for lubricants. H. O. Preston. 1,695,976; Dec. 18.
Container for vehicles, Removable. D. W. Perin. 1,695,929; Dec. 18.
Container, Lip-stick. H. W. Wild. 1,695,625; Dec. 18.
Container, Loose-leaf. S. S. Reese. 1,695,441; Dec. 18.
Container, Rolling. D. W. Perin. 1,695,928; Dec. 18.
Control mechanism. R. K. Winning. 1,695,938; Dec. 18.
Control system. C. L. Fortescue. 1,695,891; Dec. 18.
Control system. A. A. Ponsonby. 1,695,856; Dec. 18.
Control system, Supervisory. T. U. White and J. E. Gardner. 1,695,908; Dec. 18.
Controlling mechanism for compressors. R. Conrader. 1,695,868; Dec. 18.
Controlling the processing of materials. M. L. Mueller. 1,695,738; Dec. 18.
Conveyer. B. F. Forsyth. 1,695,277; Dec. 18.
Cooking vessel. E. V. Coulston. 1,695,995; Dec. 18.
Cooler: *See*—
Bag and food cooler.
Cooling-system control. F. W. Weston. 1,695,446; Dec. 18.
Copying machine, Photographic-. A. W. Caps. 1,695,481; Dec. 18.
Cork facing for rolls. H. F. Busch. 1,695,317; Dec. 18.
Corn machine. W. H. Sandifur. 1,695,902; Dec. 18.
Cottage, Portable. T. Ahlborn. Des. 77,214; Dec. 18.
Counting and stacking articles, Mechanism for. H. E. Ruckert. 1,695,982; Dec. 18.
Coupler, Car. L. D. Gregg. 1,695,281; Dec. 18.
Coupler-positioning device, Car-. L. B. Graham. 1,695,329; Dec. 18.
Coupling: *See*—
Pipe coupling.
Coupling. H. S. Pierce. 1,695,343; Dec. 18.
Cover, Vehicle tire-. T. J. McCormick. 1,696,009; Dec. 18.
Crane, Portable. L. S. Shaffer. 1,696,174; Dec. 18.
Creels, Yarn-compensating device for. J. O. McKean. 1,695,814; Dec. 18.
Crib. W. C. Baxter. 1,695,571; Dec. 18.
Crier. J. H. Wilhelm. 1,695,675; Dec. 18.
Crushing machinery, Cage-adjusting mechanism for. C. R. Rouse. 1,695,562; Dec. 18.
Curing ripe olives. G. S. Hewett. 1,695,489; Dec. 18.
Curler, Hair. L. Steiner. 1,695,442; Dec. 18.
Curling device, Hair-. A. F. Godefroy. 1,695,545; Dec. 18.
Curtain guard, Window-. H. T. Huey. 1,696,089; Dec. 18.
Cutter: *See*—
Pipe cutter. Seed-potato cutter.
Cutter-guard construction. F. Catanzarite. 1,695,994; Dec. 18.
Cutters having angularly-disposed teeth, Backing-off device for. F. O. Hoagland. 1,695,762; Dec. 18.
Damper for check valves. S. B. Redfield. 1,695,978; Dec. 18.
Dash switch. R. K. Winning. 1,695,939; Dec. 18.
Decorating walls and similar surfaces, Device for. G. A. Newman. 1,696,010; Dec. 18.
Dental engine handpieces, Attachment for. W. C. Morgan. 1,695,773; Dec. 18.
Dental plate with sucker. O. Döbele. 1,696,110; Dec. 18.
Denture, Artificial. R. M. Withycombe. 1,696,068; Dec. 18.
Detector: *See*—
Weft detector.
Detector mounted on indicating plunger of regularly-moving transferrer arm, Weft. W. H. Wakefield. 1,695,402; Dec. 18.
Die sets, Drawing template for. P. H. Danly. 1,696,149; Dec. 18.
Direction signal. S. Schreiber. 1,695,349; Dec. 18.
Dirigibly-mounted light. C. Sklarek. 1,695,509; Dec. 18.
Discharge mechanism for pie machines and the like. D. W. Smith. 1,695,511; Dec. 18.
Discharge tube, Electric. G. Seibt. 1,696,103; Dec. 18.
Disconnecting switch. J. Stolz. 1,695,868; Dec. 18.
Dishwasher. R. L. Cotterill. 1,695,412; Dec. 18.
Dishwashing device. A. M. Ahern. 1,695,703; Dec. 18.
Disks or blanks for buttons or the like from irregularly-shaped pieces of material, Production or manufacture of. H. T. Noyes. 1,695,817; Dec. 18.
Disks or blanks for buttons or the like from irregularly-shaped pieces of material, Production or manufacture of. H. T. Noyes and R. Stanforth. 1,695,816; Dec. 18.
Dispenser, E. L. Merzoian. 1,695,599; Dec. 18.
Dispensing device, Gasoline. I. F. Newton. 1,695,436; Dec. 18.
Dispensing machine for bottled milk. W. J. Hauck. 1,696,035; Dec. 18.
Display and vending device. D. Lipschutz. 1,695,463; Dec. 18.
Display rack, Glove-. R. E. Thompson. 1,695,618; Dec. 18.
Display stand. P. Germain, jr. 1,695,893; Dec. 18.
Display stand. C. J. Vesley. 1,695,935; Dec. 18.
Dissolver, Boiler-compound. J. A. Thomason. 1,695,354; Dec. 18.
Distribution system. E. R. Evans. 1,696,177; Dec. 18.
Distributor, Toothpick. J. Iwanicki. 1,695,460; Dec. 18.
Door knocker. W. W. Taylor, jr. Des. 77,266; Dec. 18.
Door-mounting structure D. W. Campbell. 1,696,175; Dec. 18.
Door-operating mechanism. D. W. Campbell. 1,696,176; Dec. 18.
Door-operating mechanism, Elevator-. H. C. Waldman. 1,695,988; Dec. 18.
Door securer. S. B. Hess. 1,695,686; Dec. 18.
Door spring. E. J. Coyne. 1,695,454; Dec. 18.
Doubling apparatus. A. R. McArthur. 1,696,097; Dec. 18.
Drag-line excavator. C. D. Buoy. 1,695,480; Dec. 18.
Drier. C. F. Morrison. 1,696,172; Dec. 18.
Drive for motor vehicles. A. D. Robbins. 1,695,296; Dec. 18.
Drums, Reconditioning iron and steel. R. C. Heinzman. 1,696,036; Dec. 18.
Drying apparatus. S. Green. 1,695,652; Dec. 18.
Drying apparatus, Seed-cotton-. C. A. Bennett. 1,695,091; Dec. 18.





Dust-collecting system for dry-cleaning tables. R. W. Arms. 1,695,570; Dec. 18.
Dyes and making the same, Bluish suphurized indophenol. H. Bots and A. Catineau. 1,695,756; Dec. 18.
Dyestuff and cellulose derivatives dyed therewith, Azo. W. Hentrich. 1,695,654; Dec. 18.
Dyestuff derived from 2-halogen-1,9-pyrazolanthrone, Vat. R. Berliner, B. Stein, and W. Trautner. 1,695,631; Dec. 18.
Dynamometer. P. B. Camp. 1,696,148; Dec. 18.
Egg boiler. H. H. Weber. 1,695,832; Dec. 18.
Ejector for bottle-labeling machines, Automatic. J. Eder. 1,695,325; Dec. 18.
Electric furnace. O. A. Colby. 1,695,882; Dec. 18.
Electric furnace. J. C. Woodson. 1,695,874; Dec. 18.
Electric heater. F. W. Thompson. 1,695,302; Dec. 18.
Electric lock. G. W. Watson. 1,695,518; Dec. 18.
Electric machine, Continuous-current dynamo-. A. Schmid and A. Stoll. 1,696,102; Dec. 18.
Electric meter. G. W. Grisdale and E. Schneider. 1,695,422; Dec. 18.
Electric-plug fitting, Detachable. H. Hertzberg. 1,695,847; Dec. 18.
Electric relay. E. E. Forstrom. 1,696,082; Dec. 18.
Electric service installation. J. Sachs. 1,696,130; Dec. 18.
Electric switch. B. E. Getchell. 1,695,958; Dec. 18.
Electric switch. R. K. Winning. 1,695,940; Dec. 18.
Electrical apparatus, Method of and apparatus for interconnecting and testing. W. H. Ray. 1,696,012; Dec. 18.
Electrical connection and forming the same. A. G. Plimmer. 1,696,124; Dec. 18.
Electrical heater. J. M. Baker. 1,695,753; Dec. 18.
Electrical relay. R. J. Wensley. 1,695,907; Dec. 18.
Electrode, Arc-welding. H. R. Pennington and C. H. Holup. 1,696,011; Dec. 18.
Electrolytes, Making. R. Schuster. 1,695,667; Dec. 18.
Electrolytic cell. S. T. Woodhull. 1,695,989; Dec. 18.
Electrosurgical apparatus. C. Fayer. 1,695,485; Dec. 18.
Electron-discharge device. K. H. Stark. 1,695,746; Dec. 18.
Electron-emitting element. L. McCulloch. 1,695,899; Dec. 18.
Elevator. A. Nordland. 1,696,122; Dec. 18.
Engine: *See*—
Internal-combustion engine. Winding engine.
Engine. F. H. Wood and F. C. Barnard. 1,696,071; Dec. 18.
Engine and operating same, Constant-volume and constant-compression. J. H. K. McCollum. 1,695,714; Dec. 18.
Engraving cutter head and depth gauge. F. B. Glover. 1,696,032; Dec. 18.
Engraving machine. S. C. McKeown and C. C. Bruckner. 1,695,771; Dec. 18.
Engraving printing cylinders, Process of and apparatus for. A. and J. Teissère. 1,695,617; Dec. 18.
Estera, Manufacture of. W. J. Bannister. 1,695,449; Dec. 18.
Excavator: *See*—
Drag-line excavator.
Explosive. A. C. Scott. 1,695,932; Dec. 18.
Extractor: *See*—
Roller vacuum extractor.
Face plate. J. Curin. Des. 77,221; Dec. 18.
Fanlights and the like, Operating means for. F. Bird. 1,695,755; Dec. 18.
Fastener, Collar. E. B. Newell. 1,695,815; Dec. 18.
Fastener, Drawer. B. M. Holden. 1,695,896; Dec. 18.
Fastener for bag frames. B. Blacher. 1,695,706; Dec. 18.
Fastener for beds, Side-rail. P. M. Howse. 1,695,961–2; Dec. 18.
Fastener for sliding doors. D. Vining. 1,696,021; Dec. 18.
Fastener, Garment. G. J. Kromer. 1,695,592; Dec. 18.
Fastener, Separable. E. R. Heintz. 1,696,118; Dec. 18.
Fastener, Window-sash. A. R. Glidden. 1,695,729; Dec. 18.
Feed regulator, Automatic liquid-. E. Roučka. 1,695,471; Dec. 18.
Feeders, Agitator for. P. C. Lydon. 1,695,597; Dec. 18.
Feeding device, Liquid-. V. A. Searles. 1,695,782; Dec. 18.
Feeding mechanism, Sheet-. S. F. H. Goffin. 1,696,114; Dec. 18.
Feeding paper sheets, Apparatus for. J. and H. Giesecke. 1,695,648–9; Dec. 18.
Feeler in transferrer arm. R. G. Turner. 1,695,397; Dec. 18.
Fermentation process. E. R. Weyer. 1,696,022; Dec. 18.
Fern stand. I. Marshak. Des. 77,247–8; Dec. 18.
Fiber and making same, Artificial. C. Ellis. 1,695,643; Dec. 18.
Filament. F. Holborn. 1,695,687; Dec. 18.
Filaments, Activation of. G. D. O'Neill. 1,695,819; Dec. 18.
Filaments, Apparatus for the manufacture of artificial. J. Delpech. 1,695,455; Dec. 18.
File, rasp, or like tool. E. Furler. 1,695,647; Dec. 18.
Film-reversing mechanism. B. A. Proctor. 1,695,857; Dec. 18.
Filter, Magazine. F. W. Manning. 1,695,811; Dec. 18.
Fishing tackle. P. J. Bode. 1,696,026; Dec. 18.
Fluid-pressure regulator. P. M. Grant. 1,695,830; Dec. 18.
Flushing mechanism. J. A. Vogel. 1,695,621; Dec. 18.
Food, Animal. H. M. Weber. 1,695,567; Dec. 18.
Food product. H. F. Weiss. 1,695,445; Dec. 18.
Frame: *See*—
Axminster tube frame.
Hoist-trolley frame. Tube frame.
Frame-adjusting means. J. Sturrock. 1,695,512; Dec. 18.
Frame for photographic films. M. F. Faber and J. Kusber, jr. 1,695,644; Dec. 18.
Friction-guide lubricator. W. Spullies. 1,695,985; Dec. 18.
Frogless switch. J. A. Singellton. 1,695,720; Dec. 18.
Fuel burner, Gaseous-. J. Harris. 1,695,587; Dec. 18.
Fuel economizer. G. W. Meyers. 1,695,695; Dec. 18.
Fuel-feeding apparatus, Pulverized-. H. Kreisinger. 1,695,692; Dec. 18.
Furnace: *See*—
Annealing or heating furnace. Glass furnace.
Tiltable furnace.
Electric furnace.
Furnace. C. H. Carpenter. 1,695,950; Dec. 18.
Furnace. S. Hill and J. Latvala. 1,695,551; Dec. 18.
Furnace. J. W. Westwick, sr. 1,696,067; Dec. 18.
Furnace-control means. Pressure and temperature change responsive. C. H. Quinn. 1,695,606; Dec. 18.
Furnace-controlling apparatus. E. Roučka. 1,695,472; Dec. 18.
Furnishings, Concealable. W. C. Fain. 1,695,370; Dec. 18.
Furniture, Metal. C. H. Busch. 1,695,411; Dec. 18.
Furring and fastening device. S. B. Sullivan. 1,695,934; Dec. 18.
Fuse, Electric. J. Schürmann. 1,695,825; Dec. 18.
Game apparatus. W. W. Welpley. 1,695,624; Dec. 18.
Garment bag. H. C. Montague. 1,695,661; Dec. 18.
Garment, Stage. E. C. Jensen. 1,695,590; Dec. 18.
Gas burner. E. A. Hall and G. E. Burns. 1,695,548; Dec. 18.
Gas economizer. J. J. Higgins. 1,695,848; Dec. 18.
Gas, Producing. L. P. Burrows. 1,695,914; Dec. 18.
Gas producing and heating appliance. J. Mackenzie. 1,695,854; Dec. 18.
Gate arrangement, Bin-. C. H. Christian and C. F. Walker. 1,695,272; Dec. 18.
Gauge: *See*—
Liquid-level gauge. Planter depth gauge.
Gauge. T. Z. Carpenter. 1,695,453; Dec. 18.
Gear, Draft. E. G. Goodwin. 1,696,115; Dec. 18.
Gear shift. J. S. Miller. 1,696,049; Dec. 18.
Generating system, Electrical. F. F. Starr. 1,695,353; Dec. 18.
Generator: *See*—
Pressure generator.
Glass furnace. W. K. Brownlee. 1,695,528; Dec. 18.
Glassware-annealing leer. P. Q. Williams. 1,695,788; Dec. 18.
Glove. A. Kyle. 1,696,095; Dec. 18.
Goblet. G. Dougherty. Des. 77,227; Dec. 18.
Goggles, Nose-protecting strap for. H. F. Shindel. 1,695,393; Dec. 18.
Golf club. P. E. Heller. 1,695,806; Dec. 18.
Golf-club carrier. L. K. Thurlow and J. P. Agnew. 1,696,062; Dec. 18.
Golf tee. A. A. Coburn. 1,696,136; Dec. 18.
Glass, Drawing sheet. L. A. Grolemund. 1,695,547; Dec. 18.
Grader and sorter, Nut. R. P. Hardy. 1,696,086; Dec. 18.
Grease cups, Making. R. P. Jacques. 1,695,496; Dec. 18.
Grease gun. O. Zerk. 1,695,627; Dec. 18.
Grease trap. J. E. Otis. 1,695,781; Dec. 18.
Grinding machine. P. Conradson. 1,695,759; Dec. 18.
Grinding machines, Plate for meat-. C. A. Laemmel. 1,695,898; Dec. 18.
Gun, Automatic. A. H. Skinner and H. J. Stambaugh. 1,695,508; Dec. 18.
Gun carriage. C. H. Froelich. 1,695,685; Dec. 18.
Gun sight. J. H. Redfield. 1,695,440; Dec. 18.
Gutter support for greenhouses, Combination. S. H. Hart. 1,696,158; Dec. 18.
Hammer, Electric. K. Olsen. 1,695,780; Dec. 18.
Hammock seat and frame, Combined. P. A. Knappe. Des. 77,242; Dec. 18.
Hand, Artificial. D. W. Dorrance. 1,695,952; Dec. 18.
Hand lamp, Electrical. E. R. Barany. 1,695,876; Dec. 18.
Handle for frying pans and the like, Folding. H. H. Trent. 1,695,724; Dec. 18.
Handling railroad ties, Device for. J. Hackworth and W. Kuehne. 1,695,960; Dec. 18.
Hanger: *See*—
Coat and trousers hanger.
Hanger. F. Gardner. 1,696,084; Dec. 18.
Hanger. P. E. Shee. 1,696,128; Dec. 18.
Hanger and protective device therefor, Garment. C. A. Waldbauer. 1,695,517; Dec. 18.
Hanging device for screens. R. S. Holcomb. 1,695,764; Dec. 18.
Harvester reels, Adjusting mechanism for. D. W. Smith. 1,695,510; Dec. 18.
Hasp lock. E. B. Stone. Des. 77,264; Dec. 18.
Hat brace. H. Martin. 1,696,047; Dec. 18.
Headlamp construction. E. C. Albright. 1,695,478; Dec. 18.
Headlight for vehicles, Automatically-dirigible. P. Cantini S. 1,695,758; Dec. 18.
Headlight, Glareless. B. Porter. 1,696,055; Dec. 18.

Headlights for automobiles, Dimming. J. Roche. 1,695,824; Dec. 18.
Hearth furnace, Rotary-. O. A. Colby. 1,695,883; Dec. 18.
Heat-accumulating system, Solar-. W. J. Harvey. 1,696,003; Dec. 18.
Heat-controlling regulator, Automatic. J. J. Lawler. 1,695,809; Dec. 18.
Heat-treating steel. L. W. Kinney and G. H. Bierman. 1,695,922; Dec. 18.
Heat treatment of metals. A. S. MacDonald. 1,695,433; Dec. 18.
Heater: *See*—
Air heater. Electrical heater.
Electric heater. Windshield heater.
Heater. H. Lange. 1,695,658; Dec. 18.
Heater for domestic boilers. T. H. Stamp. 1,695,352; Dec. 18.
Heating apparatus. J. De Ruvo. 1,696,078; Dec. 18.
Heating apparatus. M. N. Freeman. 1,696,031; Dec. 18.
Heating plug, Thermostatically-controlled. E. G. K. Anderson. 1,696,146; Dec. 18.
Heating system, Steam. L. W. Carroll. 1,696,028; Dec. 18.
Heating unit. E. E. Sutherland and F. F. Forshee. 1,695,869; Dec. 18.
Heating unit, Draw-table-. W. O. Amsler. 1,695,265; Dec. 18.
Heel linings, Making auxiliary. M. S. Silver. 1,696,129; Dec. 18.
Heels, Composite elastic top lift for shoe. M. Rudman. 1,696,173; Dec. 18.
Hide setting-out and oiling machine. K. W. Koeniger. 1,695,963; Dec. 18.
High chair, Child's. P. A. Shaver. Des. 77,279; Dec. 18.
Hinge mounting for cabinet doors. W. H. Packer. 1,696,123; Dec. 18.
Hinges, Manufacturing covered-joint. W. C. Kenyon. 1,695,288; Dec. 18.
Hoist-trolley frame. W. G. Wehr. 1,695,623; Dec. 18.
Holder and sheets therefor, Record-sheet. W. A. Ringler. 1,695,699; Dec. 18.
Holder, Automobile license-certificate. O. E. Abbey. 1,695,941; Dec. 18.
Holder, Brush-. H. C. Specht. 1,695,865; Dec. 18.
Holder, Card. M. Garbell. 1,695,278; Dec. 18.
Holder, Clothesline. J. W. Proctor. 1,696,056; Dec. 18.
Holder, Flowerpot. E. Danz. Des. 77,225; Dec. 18.
Holder for receptacles. E. R. Owen. 1,695,739; Dec. 18.
Holder, Hydraulic blank. W. Ferris. 1,696,140–1; Dec. 18.
Holder, Periodical. K. Schachter. 1,695,297; Dec. 18.
Holder, Pipe. E. Caldwell. 1,695,533; Dec. 18.
Holder, Toilet-paper. A. W. Lovejoy. 1,695,432; Dec. 18.
Holder, Toothpick. J. Draggie. 1,696,080; Dec. 18.
Holder, Tree. A. E. Davis. 1,695,275; Dec. 18.
Holder, Work. R. M. Woytych. 1,695,752; Dec. 18.
Holders, Making bobbed-hair. H. Saito. 1,695,983; Dec. 18.
Holding device, Work-. C. E. Conner. 1,695,321; Dec. 18.
Holes in metal, Countersinking. L. G. Winkler. 1,695,476; Dec. 18.
Hood, Outlet. N. Braun. 1,695,527; Dec. 18.
Hook. H. Dean. 1,696,077; Dec. 18.
Hook for roof ladders, Detachable. J. A. Johnson. 1,695,428; Dec. 18.
Horse collar. O. H. Thorp, sr. 1,696,063; Dec. 18.
Hose and tube clamp. W. G. Miller. 1,695,340; Dec. 18.
Hot plate. T. Jarboe. 1,695,711; Dec. 18.
Hub, Wheel. W. N. Booth. 1,695,525; Dec. 18.
Husker, Corn. P. F. Duerr. 1,695,324; Dec. 18.
Ignition device. J. M. Redinger. 1,695,507; Dec. 18.
Illuminating means for motor heat indicators. H. H. Boyce. 1,695,707; Dec. 18.
Implement, Combination. P. Bruni. 1,696,076; Dec. 18.
Implements, Runner attachment for farm. H. C. Georgius. 1,695,710; Dec. 18.
Index. R. C. Russell. 1,696,016; Dec. 18.
Index-card system, Visible. W. A. Ringler. 1,695,698; Dec. 18.
Index or file. W. H. Day. 1,695,322; Dec. 18.
Indicating instrument, Electrical. C. M. Adams. 1,695,264; Dec. 18.
Indicator: *See*—
Pressure indicator. Temperature indicator.
Induction meter. A. Callsen. 1,695,878; Dec. 18.
Induction motor. S. R. Bergman. 1,695,946; Dec. 18.
Induction motor, Self-starting synchronous. C. Fayer. 1,695,484; Dec. 18.
Induction motors, Forming. S. R. Bergman. 1,695,947; Dec. 18.
Inhaling device for administering gases and the like. H. W. C. Schröder. 1,695,930; Dec. 18.
Inking mechanism for intaglio-printing machines. A. M. Zuckerman. 1,695,793; Dec. 18.
Insulating cell, Slot-. M. Sandfield. 1,695,862; Dec. 18.
Insulator. W. T. Goddard. 1,695,458; Dec. 18.
Insulator. F. Reiter. 1,695,858; Dec. 18.
Interlock for elevators. M. J. Robertson. 1,695,469; Dec. 18.
Internal-combustion engine. R. Archer. 1,695,704; Dec. 18.
Internal-combustion engine. H. A. Palmer. 1,696,054; Dec. 18.
Internal-combustion engine. R. A. Reynolds. 1,695,823; Dec. 18.
Internal-combustion engine. G. W. Smith, jr. 1,696,060; Dec. 18.
Internal-combustion engine. A. Zeman. 1,695,792; Dec. 18.
Internal-combustion engine, Rotary. L. A. Dowdey. 1,695,888; Dec. 18.
Ironing board. S. O. Wagoner. 1,696,145; Dec. 18.
Jack: *See*—
Auto jack. Lifting jack.
Joint: *See*—
Rail joint.
Joint and connection. G. T. Thurneyssen. 1,695,830; Dec. 18.
Joint for golf clubs. F. Müller. 1,695,291; Dec. 18.
Joist. T. H. Kane. 1,696,039; Dec. 18.
Journal boxes, Oil cellar for. N. Benn. 1,695,754; Dec. 18.
Junction-box mounting. A. T. Clark, H. A. Leonhauser, and J. R. Jester. 1,695,633; Dec. 18.
Keyless lock. H. G. Anderson. 1,695,266; Dec. 18.
Knife, Cheese-curd. J. H. Hecker. 1,695,761; Dec. 18.
Knife, Paring and slicing. S. Santilli. 1,695,473; Dec. 18.
Knitting machine. P. P. La Montague. 1,695,734; Dec. 18.
Ladder-assembling machine, Extension-. J. E. Kalgren. 1,695,461; Dec. 18.
Lamp, Automobile traffic. G. Palmieri. Des. 77,256; Dec. 18.
Lamp for headlights, Nonglare electric. R. P. McCurdy and F. W. Hochstetter. 1,695,464; Dec. 18.
Lamp for miners, Electric safety. O. Becker, jr. 1,695,794; Dec. 18.
Lamp guard, Electric-. R. W. Reeves. 1,695,468; Dec. 18.
Lamp, Portable electric. U. F. L. Steindorff. 1,695,987; Dec. 18.
Lamp standard. J. Lieberman. Des. 77,245; Dec. 18.
Lamp, Vehicle head. H. B. Donley. 1,696,111; Dec. 18.
Latch, Hood. C. B. Gilmore. 1,695,544; Dec. 18.
Latching device, Door or the like. V. Colson. 1,696,137; Dec. 18.
Lathe, Automatic multiple-spindle. E. P. Bullard, jr. 1,696,027; Dec. 18.
Lathes, Turret attachment for. A. J. Libert. 1,695,926; Dec. 18.
Lens system, Light-converging-. C. F. Jenkins. 1,695,980; Dec. 18.
Leveler, Cake-plate. J. R. McGranighan. 1,696,098; Dec. 18.
Lifter: *See*—
Valve lifter.
Lifting jack. H. P. Salsbury. 1,696,101; Dec. 18.
Light: *See*—
Auto repair light. Dirigibly-mounted light.
Light, Apparatus for projecting. H. A. McGunnigle. 1,695,556; Dec. 18.
Light fixture, Electric-. W. P. Crockett. 1,695,413; Dec. 18.
Lighter. W. Wallenthin. Des. 77,275; Dec. 18.
Lighting device, Bank-screen-. P. M. Hotchkin. 1,695,283; Dec. 18.
Lighting fixture and support for loud-speaker units, Combination. B. F. Klein. Des. 77,241; Dec. 18.
Lighting post, Street-. W. Underwood. 77,272; Dec. 18.
Lingerie clasp. F. W. Bemm. 1,695,521; Dec. 18.
Link for scales, Check. R. J. Burke. 1,695,316; Dec. 18.
Lip stick. G. F. Anderson. 1,695,407; Dec. 18.
Liquid composition containing chlorinated rubber. C. Ellis. 1,695,639; Dec. 18.
Liquid-level control. L. H. Harding. 1,695,846; Dec. 18.
Loading device, Cottonseed-. G. H. Kristek. 1,696,042; Dec. 18.
Lock: *See*—
Electric lock. Manual rim lock.
Keyless lock. Stovepipe lock.
Locking device. J. S. Lach. 1,696,045; Dec. 18.
Locking device, Dial telephone. W. B. James. 1,696,038; Dec. 18.
Locking device for closures. J. A. Williners. 1,695,405; Dec. 18.
Locomotive construction. H. S. Vincent. 1,695,399; Dec. 18.
Loom transferrer, Weft. A. Cederlund. 1,695,366; Dec. 18.
Looms, Actuating and supporting mechanism for the knotting tables of oriental-rug. M. A. Bauer. 1,695,360; Dec. 18.
Looms and the like machines, Thread guide and cleaner for spinning. J. A. Rouge. 1,695,743; Dec. 18.
Looms, Cloth-cutting attachment for. H. A. Davis. 1,696,155; Dec. 18.
Looms for weaving, Regulating the tension of warps in. E. Hollingworth. 1,695,376; Dec. 18.
Looms, Needle motion for Axminster. W. W. Robertson. 1,695,388; Dec. 18.
Looms, Pick-out device for. O. V. Payne. 1,695,385; Dec. 18.
Looms, Picker-rod lubricator for. O. V. Payne. 1,695,386; Dec. 18.
Looms, Pile-cutting mechanism for double-fabric. W. W. Robertson. 1,695,289; Dec. 18.
Looms, Side-slip weft detector for. V. H. Jennings. 1,695,377; Dec. 18.
Looms, Side-slipping weft detector for. A. Cederlund. 1,695,365; Dec. 18.





Looms, Side-slipping weft detector for. O. V. Payne. 1,695,384; Dec. 18.
Looms, Warp-let-off mechanism for. J. Bernini. 1,695,361; Dec. 18.
Loud speaker. A. Nyman. 1,695,779; Dec. 18.
Loud-speaker diaphragm. L. Stevens. Des. 77,263; Dec. 18.
Lubricating device. R. H. Whiteley. 1,695,750; Dec. 18.
Lubricating mixture. A. W. Swanberg. 1,696,152; Dec. 18.
Lubricator: *See*—
Friction-guide lubricator.
Machine for bending bars. V. M. Witmer. 1,695,836; Dec. 18.
Machine for hanging wall paper. W. A. Cole. 1,695,915; Dec. 18.
Machine for making glass containers. W. E. Glaspey. 1,695,894; Dec. 18.
Machine for making hat linings. M. Cohn. 1,695,273; Dec. 18.
Machine for manufacturing and packing matches. A. Ovtschinnikoff. 1,696,052; Dec. 18.
Machine for manufacturing stems for tipless lamps. J. B. Whitmore. 1,695,834; Dec. 18.
Machine for manufacturing wire garment hangers. F. Magidson. 1,695,603; Dec. 18.
Machine for operating on pieces of sheet material. B. F. Mayo. 1,695,555; Dec. 18.
Machine for sewing bags. F. Ricks and R. G. Reid. 1,695,718; Dec. 18.
Machine for shaping uppers over lasts. C. F. Pym. 1,695,559; Dec. 18.
Machine for shaping uppers over lasts. C. F. Pym. 1,695,561; Dec. 18.
Machine for slitting and folding fabric. J. F. Gail. 1,695,421; Dec. 18.
Machine for the pickling of grain. F. W. McCormick and J. P. Dwyer. 1,696,048; Dec. 18.
Machine for turning shoes. W. Proulx. 1,695,344; Dec. 18.
Machine for veneering brick. E. V. Poston. 1,695,293; Dec. 18.
Machinery, Paper. R. E. Heisel. 1,696,119; Dec. 18.
Machining polygonal parts on ordinary lathes, Apparatus for. A. C. Hofstee. 1,695,763; Dec. 18.
Magnetic switch, Automatic. R. C. Bierbower. 1,696,107; Dec. 18.
Magnetos, Contact device for. E. Bugatti. 1,695,708; Dec. 18.
Mail box. A. E. Blackman. 1,695,524; Dec. 18.
Manual rim lock. W. A. Clench. 1,695,798; Dec. 18.
Marking machine. P. R. Glass and H. D. Elliott. 1,695,582; Dec. 18.
Marking pipes, Apparatus for. W. D. Moore, J. B. Loring, and W. J. Bowers. 1,695,855; Dec. 18.
Mask. H. Lowenbach. Des. 77,246; Dec. 18.
Mattress and side stitching the same. W. B. Mathewson. 1,695,736; Dec. 18.
Measuring device, Automatic volumetric. B. Opitz. 1,695,501; Dec. 18.
Measuring device, Temperature. F. S. Stickney. 1,695,807; Dec. 18.
Measuring instrument. C. L. Fortescue. 1,695,890; Dec. 18.
Measuring instrument. W. Wermeille. 1,696,132; Dec. 18.
Measuring instrument, Electrical. F. Conrad. 1,695,917; Dec. 18.
Measuring instrument, Electrical. A. R. Rutter and W. G. Mylius. 1,695,861; Dec. 18.
Mercury-arc device. V. K. Zworykin. 1,696,023; Dec. 18.
Metal insert for concrete work, Adjustable. C. H. Bauer. 1,695,909; Dec. 18.
Metal stringing and making the same, Elastic. W. A. Larned. 1,695,595; Dec. 18.
Metallic articles, Blanking. L. A. Frayer. 1,695,955; Dec. 18.
Meter: *See*—
Electric meter. Induction meter.
Meter system, Wheatstone-bridge. T. R. Harrison. 1,695,424; Dec. 18.
Micrometer. G. N. Kohlhaas. 1,695,336; Dec. 18.
Microphone system. J. E. Aiken. 1,695,875; Dec. 18.
Mill: *See*—
Colloid mill. Piercing mill.
Mirror, Dental. E. F. B. Campbell. 1,695,451; Dec. 18.
Mixing machine. O. R. Read. 1,695,345; Dec. 18.
Molding. E. Toney. Des. 77,268–70; Dec. 18.
Molding machine. D. C. Goldston. 1,695,327; Dec. 18.
Molding machine. E. Harmes. 1,695,921; Dec. 18.
Molding machine. J. J. Lawlor. 1,695,925; Dec. 18.
Motor: *See*—
Induction motor.
Motor-car body. W. Tilton. Des. 77,267; Dec. 18.
Mower attachment, Lawn-. A. Panalle and G. Alexander. 1,695,488; Dec. 18.
Musical instrument. C. H. Bullis. 1,695,574; Dec. 18.
Nail-holding attachment for hammers. A. Lochhead. 1,695,339; Dec. 18.
Narcotica, Producing. E. Hesse. 1,695,656; Dec. 18.
Needle-controlling mechanism, Sewing-machine-. F. M. Card. 1,695,680; Dec. 18.
Needle, Surgical. C. T. Davis. 1,695,887; Dec. 18.
Niche. E. Kaim. Des. 77,239; Dec. 18.
Nozzle, Blowpipe. R. J. Kehl. 1,696,091; Dec. 18.
Nozzle, Hose. A. T. Carnes. 1,695,452; Dec. 18.
Nozzle, Multiple-flame blowpipe. R. J. Kehl. 1,696,092; Dec. 18.
Nut-cracking machine. W. N. Gradick. 1,695,651; Dec. 18.
Oil gun. C. S. Burton. Re17,165; Dec. 18.
Oil-injecting apparatus for asphalt mixers. W. A. Smith. 1,695,722; Dec. 18.
Oil saver for oil wells and packing screws therefor. J. W. Heeter. 1,695,332; Dec. 18.
Optical mounting. E. Pappert. Des. 77,257; Dec. 18.
Ordnance, Breech-loading. A. T. Dawson and G. T. Buckham. 1,695,841; Dec. 18.
Ordnance breech mechanism. A. T. Dawson and G. T. Buckham. 1,695,728; Dec. 18.
Ordnance, Means for use in the laying of. A. T. Dawson, G. E. Watt, and A. L. Perham. 1,695,483; Dec. 18.
Ornament, Christmas-tree. E. B. Wilson. 1,695,307; Dec. 18.
Oscillograph. R. Rüdenberg. 1,695,719; Dec. 18.
Outlet and gutter construction for greenhouses, Combination. S. H. Hart. 1,696,159; Dec. 18.
Outlet, Greenhouse combination. S. H. Hart. 1,696,160; Dec. 18.
Overshoe. H. Westling. Des. 77,278; Dec. 18.
Oxidation of sulphur dioxide, Catalytic. A. O. Jaeger and J. A. Bertsch. 1,695,285; Dec. 18.
Oxide, Obtaining titanic. L. E. Barton and C. J. Kinzie. 1,695,270; Dec. 18.
Oxide, Obtaining titanium. R. H. Monk. 1,695,341; Dec. 18.
Packaging paper, Apparatus and method for. W. C. Ludwig. 1,696,008; Dec. 18.
Packer, Well. J. P. Pugh and W. C. Clark. 1,695,741; Dec. 18.
Packing and making the same. C. Restein. 1,695,821–2; Dec. 18.
Packing condenser tubes or the like, Method of and tool for. H. A. Staples. 1,695,616; Dec. 18.
Packing device, Shape-retaining. B. Ikofsky and J. Josephs. 1,695,495; Dec. 18.
Padlock, Combination. F. Soley. 1,696,061; Dec. 18.
Padlock for tire carriers and the like. H. B. Page. 1,695,696; Dec. 18.
Page, Sectional. L. Cohen. 1,695,575; Dec. 18.
Pan: *See*—
Baking pan.
Paper bag. H. A. Wolf. 1,695,568; Dec. 18.
Paper-hanger's board. E. S. Judd and R. Russo. 1,695,766; Dec. 18.
Paper-making machine. H. R. Williams. 1,695,873; Dec. 18.
Paper-making machine. L. M. Yoerg. 1,695,448; Dec. 18.
Paper-making machines and apparatus therefor, Feed control of. A. Kolitsch. 1,695,380; Dec. 18.
Paper-making machinery. E. A. Öhlin and F. O. Carlsson. 1,695,972; Dec. 18.
Pasteurizing milk. J. O. Templeton. 1,695,300; Dec. 18.
Peeler, Potato. A. Eckert. 1,695,420; Dec. 18.
Pen, Fountain. N. T. Burke. 1,695,913; Dec. 18.
Pen-setting attachment, Automatic. M. E. Duncan. 1,695,457; Dec. 18.
Percolator top. W. F. Conradt. 1,695,918; Dec. 18.
Phase indicator and determining the phase relation of alternating currents. W. A. Kates. 1,695,850; Dec. 18.
Phonograph and radio apparatus, Combined. J. W. Bishop and B. C. Booth. 1,695,911; Dec. 18.
Photograph or film and producing same, Color. F. E. Ives. 1,695,284; Dec. 18.
Picture machine, Talking-moving-. L. de Forest. 1,695,414; Dec. 18.
Piercing mill. S. E. Diescher. 1,695,323; Dec. 18.
Pigments, Producing oiled. H. Grossman. 1,696,034; Dec. 18.
Pin wheel. J. S. Fridolph. Des. 77,230; Dec. 18.
Pipe coupling. H. D. Algyre. 1,696,134; Dec. 18.
Pipe cutter. G. M. Causey and M. E. Miller. 1,695,363; Dec. 18.
Pipe-vise stand. L. C. Young. 1,695,311; Dec. 18.
Pipes, Preparing. T. De La Mare. Re17,166; Dec. 18.
Piston. J. E. Diamond. 1,695,417; Dec. 18.
Piston for use in the cylinders of internal-combustion engines. P. K. Saunders. 1,696,017; Dec. 18.
Piston rings, Making. E. M. Williams. 1,695,787; Dec. 18.
Pitcher and drinking glass, Combination. W. C. Ross. Des. 77,259; Dec. 18.
Plant cover. F. Graffenberger. Des. 77,232; Dec. 18.
Planter depth gauge. A. A. Resseguie. 1,695,608; Dec. 18.
Plate reversing and cooling mechanism. C. W. Kinter and C. H. Manion. 1,695,923; Dec. 18.
Platform, Elevator. F. Hymans and C. T. Westlin. 1,695,690; Dec. 18.
Plating tank. W. E. Belke. 1,695,795; Dec. 18.
Plug for anchoring rails on concrete supports, Wooden. E. F. L. Vagneux. 1,696,131; Dec. 18.
Pneumatically-operated station. R. J. Wensley. 1,695,906; Dec. 18.
Positioning device for railway-car couplers. A. E. Small. 1,695,351; Dec. 18.
Potato cutter, Seed-. T. A. True. 1,695,905; Dec. 18.
Powdering machine, Automatic. S. Lipsius. 1,696,171; Dec. 18.

Power from tides, System for developing. J. A. Knowlton. 1,695,733; Dec. 18.
Power plant. J. G. Weir. 1,695,936; Dec. 18.
Power transmission. P. J. Cunningham. 1,695,951; Dec. 18.
Preheater for furnaces, Air. L. T. Mart. 1,695,434; Dec. 18.
Preheating the charge in shaft furnaces. A. L. Feild. 1,695,953; Dec. 18.
Pressure generator, Electric. A. Elmer. 1,695,803; Dec. 18.
Pressure indicator. K. Juhasz. 1,695,501; Dec. 18.
Pressure-vacuum system of pneumatic dispatch. J. J. Stoetzel. 1,695,785; Dec. 18.
Printing machine. G. H. Lang. 1,695,964; Dec. 18.
Printing machine, Web-. J. D. Caplinger. 1,695,271; Dec. 18.
Printing roller. J. P. Nissen, jr. 1,695,437; Dec. 18.
Propelling arrangement on sleighs. J. Rantasa. 1,696,125; Dec. 18.
Propelling device, Boat-. C. P. Turner. 1,695,304; Dec. 18.
Protecting lawns. J. H. Atwater. 1,695,942; Dec. 18.
Protective system. L. N. Crichton. 1,695,885; Dec. 18.
Protector, Hose. G. E. Skinkle. 1,695,745; Dec. 18.
Pulling-over machine. C. F. Pym. 1,695,560; Dec. 18.
Pump. C. P. Eisenhauer. 1,695,543; Dec. 18.
Pump, Air. P. Voreaux. 1,695,401; Dec. 18.
Pump and the like. E. Godillot. 1,695,650; Dec. 18.
Pump diaphragm. W. C. Carter. 1,695,534; Dec. 18.
Pump, Fuel-oil-injection. K. Rasmussen. 1,695,716; Dec. 18.
Pump, Oil-well. D. D. Burch. 1,696,135; Dec. 18.
Pump or motor. W. Ferris. 1,696,139; Dec. 18.
Pump piston. W. C. Gage. 1,695,999; Dec. 18.
Pump, Revolving-cylinder and reciprocating-piston. E. Pelich. 1,695,975; Dec. 18.
Pump, Sand-tester. G. F. Le Bus. 1,696,096; Dec. 18.
Pumping apparatus. G. A. Buvinger and C. Warner. 1,695,318; Dec. 18.
Pumping apparatus, Liquid-fuel-. W. C. Carter. 1,695,535; Dec. 18.
Pumps, Exhaust sleeve for deep-well air. R. H. Tucker. 1,696,065; Dec. 18.
Purifier, Exhaust. L. Markels. 1,695,554; Dec. 18.
Rack: *See*—
Display rack. Towel rack.
Radiator. J. W. Guimont. 1,695,959; Dec. 18.
Radiator and flywheel. C. R. Grant. 1,696,033; Dec. 18.
Radiator cover, Vehicle. M. Kishaw. Des. 77,240; Dec. 18.
Radiator guard. C. H. Gustafson. 1,695,584; Dec. 18.
Radiator, Sectional. F. M. Young. 1,695,519; Dec. 18.
Radio apparatus. A. F. Sanford. 1,695,390; Dec. 18.
Radio-phonograph combination. W. Leathers. 1,695,852; Dec. 18.
Radio system. D. G. Little and R. L. Davis. 1,695,966; Dec. 18.
Rail joint. J. K. Boyd and F. F. Slick. 1,696,108; Dec. 18.
Rail joint. E. W. Caruthers. 1,695,839; Dec. 18.
Rail tie, Concrete and steel spring. F. C. Mish. 1,695,604; Dec. 18.
Rails with removable heads, Fixation device for. J. Grohs. 1,695,730; Dec. 18.
Railway tie. J. B. Maserang. 1,695,770; Dec. 18.
Rakes, Adjusting mechanism for sweep. C. Pearson. 1,695,503–4; Dec. 18.
Ram. C. B. Upton. 1,695,305; Dec. 18.
Receptacle. A. Zeindlhofer. 1,695,477; Dec. 18.
Receptacle, Liquid. S. and V. Goldberg. 1,695,583; Dec. 18.
Receptacle, Measuring and dispensing. C. B. Doolin. 1,696,079; Dec. 18.
Receptacle, Smokeless. H. A. Reese. 1,695,346; Dec. 18.
Record, Talking-motion-picture. L. de Forest. 1,695,415; Dec. 18.
Reflector-supported light-socket mounting. F. W. C. Neuner. 1,695,465; Dec. 18.
Refrigeration and apparatus therefor. C. C. Palmer. 1,695,292; Dec. 18.
Refrigerator, Bottle-dispensing. C. A. Frick. 1,695,956; Dec. 18.
Register wheel. C. H. H. Rodanet. 1,695,663; Dec. 18.
Registering device, Electrical. W. Siebers. 1,695,668; Dec. 18.
Regulating combustion. E. Roučka. 1,695,470; Dec. 18.
Regulator: *See*—
Feed regulator. Temperature regulator.
Fluid-pressure regulator.
Relay, Engine. R. C. Leake. 1,696,170; Dec. 18.
Remedies from glandular organs, Producing. G. Schröder. 1,695,612; Dec. 18.
Renovating machine, Hat-. L. Flicker. 1,695,646; Dec. 18.
Replenishing weft in power looms, Mechanism for automatically. H. Arima. 1,695,630; Dec. 18.
Resilient wheel. J. Allen. 1,695,629; Dec. 18.
Resin composition, Phenolic. V. H. Turkington. 1,695,566; Dec. 18.
Rim-contracting device. W. H. Welch. Re17,167; Dec. 18.
Rim, Vehicle wheel. W. R. Robinson. 1,696,015; Dec. 18.
Ring: *See*—
Collector ring.
Ring. E. Ciner. Des. 77,219; Dec. 18.
Ring for a shoe heel or similar article. V. de Pascal. Des. 77,226; Dec. 18.
Roller: *See*—
Printing roller.
Roller vacuum extractor. G. Peebles. 1,695,974; Dec. 18.
Rolling wheel rims. E. G. Budd. 1,695,531; Dec. 18.
Roof. H. Abraham. Des. 77,213; Dec. 18.
Roof, Car. W. Wright. 1,695,727; Dec. 18.
Roof, Shingled. A. J. Caron. Des. 77,218; Dec. 18.
Rotary chair. O. L. Wolfe. 1,695,725; Dec. 18.
Rotors of electric motors, Producing integral bar windings in the. C. L. Daun. 1,695,799; Dec. 18.
Rubber composition containing linseed oil, Chlorinated. C. Ellis. 1,695,640; Dec. 18.
Rubber, Recovery of. W. H. Yeandle. 1,695,676; Dec. 18.
Rubber, Stabilized chlorinated. C. Ellis. 1,695,641; Dec. 18.
Rug, Ice. F. H. Field. 1,695,709; Dec. 18.
Sachet device. C. W. Knapp. Des. 77,243–4; Dec. 18.
Safety-clamp. G. B. Shively. 1,695,350; Dec. 18.
Sail attachments, Traveler slide for. P. C. Wilson. 1,695,674; Dec. 18.
Sail-securing device, Traveling. P. C. Wilson. 1,695,673; Dec. 18.
Sand, Apparatus for the recovery of fine values from. E. A. Sperry. 1,695,614; Dec. 18.
Sand cleaning and reclaiming unit. H. W. Titgen. 1,696,064; Dec. 18.
Sand wedge. E. K. MacClain. 1,695,598; Dec. 18.
Sash, Window. R. S. Kelly. 1,695,768; Dec. 18.
Sawing machine, Stone-. E. A. Chase. 1,695,364; Dec 18.
Scale, Computing. C. F. M. van Berkel 1,695,620; Dec. 18.
Scissors, Pair of. A. F. Ern. Des. 77,223; Dec. 18.
Scraper, Road. T. L. Duffield. 1,695,635; Dec. 18.
Screen A. L. Feide. 1,695,371; Dec. 18.
Screens, Side extension for window. H. R. Ellis. 1,696,081; Dec. 18.
Screw-down mechanism for rolling mills. W. C. Coryell. 1,695,274; Dec. 18.
Screw driver, Duplex. P. E. Borklund. 1,695,949; Dec. 18.
Scum trap. C. C. E. Kersten. 1,695,851; Dec. 18.
Seat: *See*—
Self-raising seat. Wagon seat.
Toilet seat.
Seat construction, Automobile. C. J. Walker and G. F. Trautwein. 1,695,871; Dec. 18.
Seesaw. T. C. Molsdale. 1,695,737; Dec. 18.
Self-raising seat. B. J. Dever. 1,695,800; Dec. 18.
Separating and cleaning mica, Method of and apparatus for. L. McCarthy. 1,695,383; Dec. 18.
Separating apparatus. C. Bourges. 1,695,362; Dec. 18.
Separating intermixed divided materials, Mechanism and process for. K. Davis. 1,695,369; Dec. 18.
Separating machine, Dry-. R. W. Arms. 1,695,569; Dec. 18.
Separation of mono- and dialkyl derivatives of aromatic amines. W. Flemming and H. Klein. 1,695,372; Dec. 18.
Serving device. B. H. Allen. 1,695,628; Dec. 18.
Sewage, System and apparatus for. G. G. Smith. 1,695,669; Dec. 18.
Sewing machines, Attachment for. L. M. Rabinowitz. 1,695,607; Dec. 18.
Sewing machines to stick a cold-process tape on shoes to reenforce same, Attachment for utilizing shoe-. B. Pashigian and H. J. Gallant. 1,695,605; Dec. 18.
Shackle, Spring. A. C. Bally. 1,695,943; Dec. 18.
Shade bracket. A. Morin. 1,696,050; Dec. 18.
Shape-retaining device for hats. S. Leff. 1,695,290; Dec. 18.
Sheet mill and making finished sheets, Continuous. F. C. Biggert, jr. 1,695,910; Dec. 18.
Shield, Automobile antiglare. I. L. Worden. 1,695,357; Dec. 18.
Shingle. J. E. Hooker. 1,696,120; Dec. 18.
Ship. J. Pasini. 1,696,053; Dec. 18.
Shock absorber. A. B. Shultz. 1,695,933; Dec. 18.
Shock-absorbing mechanism, Friction. J. F. O'Connor. 1,695,499–500; Dec. 18.
Shock loader. B. C. Berry and H. S. Dickinson. 1,695,572; Dec. 18.
Shoe and shank stiffener therefor, Turn. W. G. Dodge. 1,695,577; Dec. 18.
Shoe shank. R. Davis and I. Tapman. 1,695,996; Dec. 18.
Shoe stick. C. H. Young. 1,695,702; Dec. 18.
Shoe, Stitch-down weltless. E. J. Ramsey. 1,695,607; Dec. 18.
Shoes, Manufacture of. J. B. Hadaway. 1,695,331; Dec. 18.
Shoes, Manufacture of turn. W. G. Dodge. 1,695,578; Dec. 18.
Shopping bag. J. R. Gibson and T. M. Avery. 1,696,085; Dec. 18.
Short-circuiting mechanism. C. H. Wolff. 1,695,789; Dec. 18.
Sign. J. E. Guy. 1,696,117; Dec. 18.
Sign. D. W. Norton. Des. 77,254.; Dec. 18.
Sign, Electric. L. Goldsmith. 1,695,895; Dec. 18.
Sign, Rotatable. F. L. Hinks. 1,695,589; Dec. 18.
Signal: *See*—
Direction signal. Traffic signal.
Signal device. H. E. Sipe. 1,695,827; Dec. 18.





Signal means for typewriters. R. Seidelinger. 1,695,392; Dec. 18.
Signal system, Automatic block-. H. Arndt. 1,695,313; Dec. 18.
Signaling system. W. S. Gorton. 1,695,844; Dec. 18.
Silencer. H. P. Maxim. 1,695,435; Dec. 18.
Silencer for internal combustion or other engines, Exhaust. F. Heather. 1,695,375; Dec. 18.
Silos, Cap for. W. A. Parsons. 1,695,502; Dec. 18.
Sizers, Up-edging means for fruit. E. M. Wayland. 1,696,066; Dec. 18.
Slip-ring assembly with short-circuiting contact. H. Richter. 1,695,859; Dec. 18.
Slitting machine. F. W. Merrick. 1,695,715; Dec. 18.
Slotting machine, Pipe-. B. C. Travis. 1,695,513; Dec. 18.
Sludge from boilers, Removing. C. A. Kothé. 1,696,005; Dec. 18.
Snowplow. J. Musil and D. H. Gilchrist. 1,695,775; Dec. 18.
Sodium acetate, Producing. F. G. Rawling. 1,695,742; Dec. 18.
Sole and making the same, Inner. H. A. Ballard. 1,695,408; Dec. 18.
Sound post for violins. R. W. Stephenson. 1,695,783; Dec. 18.
Sounding device for liquid levels. L. Steiner and V. Gutmann. 1,695,701; Dec. 18.
Spark gap. E. S. Flarsheim. 1,696,157; Dec. 18.
Spark plug. C. C. Campbell. 1,695,632; Dec. 18.
Spinning frames, Wind-down mechanism for. J. H. Laliberte. 1,695,713; Dec. 18.
Spinning, twisting, and like machines, Doffing mechanism for. J. P. Mackie. 1,695,659; Dec. 18.
Sport rider. H. N. Hulander. 1,695,689; Dec. 18.
Spring: *See*—
Door spring.
Spring support for chairs, couches, and the like. A. H. Salmon. 1,696,126; Dec. 18.
Stand: *See*—
Display stand. Pipe-vise stand.
Steel and making the same. F. C. Langenberg, and M. A. Grossman. 1,695,594; Dec. 18.
Steering control for revolving excavators or cranes, Tractor. L. A. Krupp. 1,696,168; Dec. 18.
Steering for dirigible craft, Automatic. C. B. Mills. 1,695,601; Dc. 18.
Steering for dirigible craft, Automatic. E. A. Sperry, jr. 1,695,615; Dec. 18.
Steering mechanism for mechanically-driven road vehicles. F. H. Royce. 1,695,664; Dec. 18.
Stereoscopic cinematography. L. F. Savage. 1,695,744; Dec. 18.
Stoker air control. O. O. Nygaard. 1,696,144; Dec. 18.
Stoker, plunger. C. E. Harrison. 1,696,088; Dec. 18.
Stopper for india-ink bottles and the like. A. Langsner. 1,696,006; Dec. 18.
Stopping device for stretching machines, Electric. W. Dewhurst. 1,696,109; Dec. 18.
Stopping mechanism for knitting machines. J. Regan. 1,695,387; Dec. 18.
Storage-battery case. P. O. Gunkel. 1,696,001; Dec. 18.
Storage tank, Oil-. B. K. Appleman. 1,695,338; Dec. 18.
Store front. W. Melville. Des. 77,250–1; Dec. 18
Store front. W. Melville and R. H. Smythe. Des. 77,252; Dec. 18.
Store front. B. F. Schulte. Des. 77,261; Dec. 18.
Stove. E. W. Rogers. Des. 77,258; Dec. 18.
Stoves, Element support for electric. C. M. Dibble. 1,695,801; Dec. 18.
Stovepipe lock. E. Corcoran. 1,695,634; Dec. 18.
Strainer, Milk. L. F. Wiemer. 1,695,306; Dec. 18.
Strap: *See*—
Wrist-watch strap.
Stretcher, Necktie. W. Lyjak. 1,695,927; Dec. 18.
Stretcher, Pelt. J. J. Smith. 1,695,613; Dec. 18.
Stretcher, Spring belt. H. Benit. 1,695,945; Dec. 18.
Stringing machine. E. B. Carter. 1,695,796; Dec. 18.
Stuffing box and bearing structure. W. G. Kirchhoff. 1,696,094; Dec. 18.
Suction cleaner. W. E. Sherbondy. 1,695,984; Dec. 18.
Suitcase lock. E. B. Stone. Des. 77,265; Dec. 18.
Sulphoxylates for stripping dyes, Use of. C. S. Hollander. 1,696,164; Dec. 18.
Support, Vehicle body. W. D. Harper. 1,695,373; Dec. 18.
Supporter, Hose. A. D. Borenstein. 1,695,573; Dec. 18.
Supporting and sealing means for cyanide pots. F. J. Peterson. 1,695,467; Dec. 18.
Supporting structure for power tables. G. M. Eames. 1,695,419; Dec. 18.
Surfacing element and manufacturing the same. H. C. Flohr and L. Ornstein. 1,695,276; Dec. 18.
Surgical telescope, Rearward-vision. R. H. Wappler. 1,695,672; Dec. 18.
Suspension device for punching bags. J. T. Taudvin. 1,695,829; Dec. 18.
Swab. G. A. Humason. 1,695,494; Dec. 18.
Swaging machine for artificial dentures. L. E. Eaton. 1,695,684; Dec. 18.
Switch: *See*—
Dash switch. Magnetic switch.
Disconnecting switch. Progress switch.
Electric switch.
Switch. H. Gernsback. 1,695,957; Dec. 18.
Switch construction, Push-button-. F. Staedeli. 1,696,151; Dec. 18.
Switch for induction motors, Automatic safety. G. Speiser. 1,695,866; Dec. 18.
Switch-lock device. E. W. Powell. 1,695,900; Dec. 18.
Table top. H. T. Smith. Des. 77,262; Dec. 18.
Talking machines, Resilient mounting for the stylus holder of. J. Durham. 1,695,418; Dec. 18.
Tank: *See*—
Plating tank. Storage tank.
Tanning and making the same, Material for. C. J. Herrly and A. M. Matheson. 1,695,655; Dec. 18.
Tap-changer system. W. M. Dann, L. H. Hill, and E. F. Sipher. 1,695,886; Dec. 18.
Tar or tar oils, Resolving emulsions of. H. W. Robinson and D. W. Parkes. 1,696,057; Dec. 18.
Telephone-exchange system. R. L. Stokely. 1,695,828; Dec. 18.
Telephone system. H. H. Abbott. 1,695,312; Dec. 18.
Telephone system. H. M. Bascom and H. H. Abbott. 1,695,814; Dec. 18.
Telephone system, Automatic. F. Aldendorff. 1,695,267–8; Dec. 18.
Telephone systems, Reception apparatus for. S. B. Allen. 1,696,024; Dec. 18.
Television apparatus. S. M. Kintner. 1,695,924; Dec. 18.
Temperature-control system. R. B. Lincoln. 1,695,853; Dec. 18.
Temperature-indicating mechanism. S. F. Barker. 1,695,838; Dec. 18.
Temperature indicator. E. A. Rollins. 1,695,295; Dec. 18.
Temperature regulator, Automatic. J. H. P. Wood. 1,695,309; Dec. 18.
Temperature-responsive device. P. H. Brace. 1,695,877; Dec. 18.
Tentering machine. E. H. Reynier. 1,695,717; Dec. 18.
Testing apparatus, Metal-. G. B. Collins. 1,695,367; Dec. 18.
Testing device, Spark-plug-. R. H. Myers. 1,695,557; Dec. 18.
Therapy apparatus, Colonic. O. B. Schellberg. 1,696,018; Dec. 18.
Thermostatic control of electric circuits and apparatus and other devices. J. G. Goodhue. 1,695,546; Dec. 18.
Thermostatic device. E. K. Clark. 1,695,879; Dec. 18.
Thimble for pipes, Plate. J. W. Farley. 1,695,645; Dec. 18.
Throttle, Reversible drill. R. A. Norling. 1,695,777; Dec. 18.
Tie: *See*—
Rail tie. Railway tie.
Tie nipper. W. W. Major and J. C. Carpenter, jr. 1,695,660; Dec. 18.
Tiltable furnace. G. Schmitt. 1,695,863; Dec. 18.
Time-element electroresponsive device. G. R. Townsend. 1,695,723; Dec. 18.
Time-element electroresponsive device. G. R. Townsend. 1,695,748; Dec. 18.
Tire. H. L. Venn. Des. 77,273–4; Dec. 18.
Tire. L. Orszag and P. Curcuruto. 1,696,051; Dec. 18.
Tire. J. Schraner. 1,696,059; Dec. 18.
Tire, Automobile. H. C. Hower. Des. 77,235; Dec. 18.
Tire shoe. F. H. Bryant. 1,695,450; Dec. 18.
Tire, Vehicle. L. W. Heefner. Des. 77,234; Dec. 18.
Toilet seat. A. J. Bruder. 1,695,530; Dec. 18.
Toilet seat, Sanitary. R. O. Harper and R. C. Hitchin. 1,696,142; Dec. 18.
Tongue and neck-yoke coupling. R. H. Hollis. 1,695,731; Dec. 18.
Tool. F. Sievern. 1,696,019; Dec. 18.
Tool, Carpenter's combination. O. W. Bane. 1,695,944; Dec. 18.
Tool, Combination. E. G. Morin, jr. 1,695,662; Dec. 18.
Tool-coupling device. C. S. Thomas. 1,695,564; Dec. 18.
Tool-coupling means. C. E. Thomas. 1,695,565; Dec. 18.
Tool, Perogen dough cutting and trimming. S. Helfgott. 1,695,427; Dec. 18.
Tool, Rim. F. H. Webster. 1,695,403; Dec. 18.
Tools, Motor-control mechanism for machine. S. W. Bath. 1,695,359; Dec. 18.
Top. E. W. Gibbs. 1,695,486; Dec. 18.
Top. J. L. Kleinman. 1,695,807; Dec. 18.
Torch, Vacuum. W. E. Johnston. 1,695,334; Dec. 18.
Totalizing mechanism. J. Harris. 1,696,087; Dec. 18.
Towel rack, Kitchen. O. Kartzmark. 1,695,429; Dec. 18.
Toy balloon. J. Tyndall. Des. 77,271; Dec. 18.
Toy building block and wall construction. F. E. and F. D. Jones. 1,695,553; Dec. 18.
Toy, Figure wheeled. F. E. Vautrin. 1,695,475; Dec. 18.
Toy game. F. M. Welch. 1,695,937; Dec. 18.
Toy, Mechanical game. J. W. Culp. 1,695,683; Dec. 18.
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18: 1,695,268
27: 1,695,312
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27.5: 1,695,267
81: 1,695,875
100.1: 1,695,414
1,695,852
1,695,911
119: 1,695,779
170: 1,695,844
171: 1,695,842
175: 1,696,012
189: 1,696,038
180— 5: 1,696,125
9.2: 1,696,168
1,696,174
48: 1,695,579
57: 1,695,296
70: 1,695,849
183— 48: 1,695,554
184— 1.5: 1,696,100
21: 1,695,985
186— 1: 1,695,628
187— 17: 1,696,122
29: 1,695,690
31: 1,695,469
52: 1,695,988
188— 8: 1,695,901
72: 1,695,665
213: 1,695,416
218: 1,695,526
1,695,539
189— 4: 1,696,158
1,696,160
37: 1,696,039
46: 1,696,175
72: 1,695,576
78: 1,695,973
92: 1,695,523
192— 98: 1,695,750
105: 1,695,358
127: 1,695,769
194— 19: 1,695,568
65: 1,695,439
196— 4: 1,696,057
65: 1,696,030
197— 17: 1,695,492
73: 1,695,520
136: 1,695,278
187: 1,695,392
198— 57: 1,695,272
134: 1,695,923
226: 1,696,088
232: 1,696,072
199— 47: 1,696,074
200— 14: 1,695,940
30: 1,695,488
1,695,708
48: 1,695,808
80: 1,695,789
84: 1,695,846
87: 1,696,170
97: 1,695,723
103: 1,696,169
106: 1,695,907
108: 1,695,748
122: 1,695,879
141: 1,695,546
155: 1,695,957
159: 1,695,939
1,696,151
204— 11: 1,695,795
206— 2: 1,696,001
44: 1,695,463
56: 1,695,407
1,695,625
1,695,576
60: 1,696,008
209— 2: 1,695,383
44: 1,695,614
72: 1,695,796
84: 1,695,371
91: 1,695,066
121: 1,695,086
247: 1,695,064
466: 1,695,360
467: 1,695,569
1,695,570
210— 5: 1,695,669
6: 1,695,443
16: 1,696,106
24: 1,695,541
1,695,542
37: 1,695,354
45: 1,696,014
56: 1,695,781
155: 1,695,306
197: 1,695,811
211— 24: 1,695,893
34: 1,695,702
59: 1,695,935
110: 1,695,429
123: 1,696,128
124: 1,695,517
164: 1,695,618
213— 21: 1,695,329
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26: 1,696,115
1,696,116
31: 1,695,409
1,695,500
49: 1,695,281
152: 1,696,040
214— 18: 1,695,515
215— 11: 1,695,920
13: 1,695,540
58: 1,696,006
63: 1,695,396
96: 1,695,301
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216— 4: 1,695,466
6: 1,695,915
54: 1,695,325
219— 8: 1,695,694
1,696,011
11: 1,695,302
34: 1,695,870
37: 1,695,801
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38: 1,695,803
1,696,078
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41: 1,695,753
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67: 1,695,563
73: 1,696,112
85: 1,695,358
221— 16: 1,696,079
47.4: R. 17,165
1,695,588
1,695,627
60: 1,695,599
1,696,147
103: 1,695,436
1,695,501
118: 1,695,692
223— 18.6: 1,695,495
19: 1,695,927
31: 1,695,646
61: 1,696,084
62: 1,695,580
224— 29: 1,695,739
1,696,029
225— 21: 1,695,735
42: 1,695,277
226— 2: 1,695,395
228— 51: 1,695,428
229— 6: 1,695,802
43: 1,695,432
54: 1,696,085
68: 1,695,568
230— 4: 1,695,368
27: 1,695,978
187: 1,696,013
206: 1,695,721
222: 1,695,401
232— 25: 1,695,524
233— 47: 1,695,990
234— 1: 1,695,668
21: 1,695,591
235— 1: 1,695,663
144: 1,696,087
236— 14: 1,695,470
15: 1,695,431
1,695,472
1,695,853
26: 1,695,606
32: 1,695,309
42: 1,695,809
95: 1,695,695
238— 48: 1,695,604
79: 1,695,770
132: 1,695,730
205: 1,696,108
243: 1,695,839
315: 1,695,993
324: 1,695,998
370: 1,696,131
240— 6: 1,695,283
8.18: 1,695,670
8.28: 1,695,707
10: 1,695,307
10.5: 1,695,876
17.5: 1,695,794
41: 1,695,465
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45: 1,695,824
52: 1,695,987
61: 1,695,509
62: 1,695,758
73: 1,695,413
102: 1,695,468
242— 55: 1,695,857
96: 1,696,056
131: 1,695,814
243— 2: 1,695,785
244— 5: 1,695,394
31: 1,695,611
246— 29: 1,695,410
39: 1,695,313
63: 1,695,678
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190: 1,695,880
387: 1,695,720
448: 1,695,900
247— 2: 1,696,150
248— 38: 1,695,275
250— 16: 1,696,024
250— 27: 1,695,966
27.5: 1,695,600
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1,695,845
1,695,899
1,696,103
38: 1,696,157
40: 1,695,919
251— 5: 1,695,280
43: 1,696,070
77: 1,695,536
132: 1,695,726
1,695,848
134: 1,695,452
145: 1,695,722
1,696,152
252— 5: 1,696,152
253— 16.5: 1,695,751
18: 1,695,733
76: 1,696,002
77: 1,695,971
254— 95: 1,695,881
121: 1,695,660
133: 1,696,101
166: 1,695,498
257— 16: 1,695,434
130: 1,695,519
135: 1,696,105
151: 1,695,950
259— 96: 1,695,404
101: 1,695,279
107: 1,695,345
260— 4: 1,695,655
19: 1,695,756
29: 1,695,631
61: 1,695,626
92: 1,695,654
106: 1,695,449
119: 1,695,742
128: 1,695,372
135: 1,696,022
156: 1,695,447
261— 41: 1,695,671
262— 3: 1,696,075
263— 6: 1,695,950
7: 1,695,883
11: 1,695,467
32: 1,695,863
265— 19: 1,696,148
37: 1,695,620
61: 1,695,316
266— 1.5: 1,695,860
1,695,974
15: 1,695,882
267— 8: 1,695,933
56: 1,695,943
69: 1,695,454
268— 63: 1,696,176
102: 1,695,755
133: 1,695,691
270— 86: 1,695,421
271— 22: 1,696,114
37: 1,695,649
50: 1,695,648
272— 28: 1,695,829
272— 57: 1,695,689
273— 33: 1,696,136
77: 1,695,598
80: 1,695,291
1,695,806
97: 1,695,624
101: 1,695,937
143: 1,695,653
152: 1,695,425
274— 35: 1,695,418
277— 61: 1,695,586
278— 122: 1,695,731
279— 89: 1,695,564
1,695,565
280— 33.1: 1,695,497
41: 1,695,409
49: 1,695,928
1,695,929
124: 1,695,379
281— 15: 1,695,315
44: 1,695,575
283— 1: 1,695,423
285— 96: 1,696,134
286— 9: 1,695,320
16: 1,695,332
290— 30: 1,695,353
292— 109: 1,695,405
114: 1,695,544
147: 1,695,706
169: 1,695,266
1,696,137
218: 1,695,729
282: 1,696,021
338: 1,695,686
343: 1,695,872
293— 20: 1,696,073
48: 1,695,584
55: 1,695,294
1,695,602
1,695,653
1,695,786
294— 67: 1,695,960
296— 23: 1,696,113
35: 1,695,373
57: 1,695,609
97: 1,695,357
297— 15: 1,695,877
301— 21: 1,695,798
105: 1,695,525
302— 50: 1,696,042
304— 38: 1,695,766
305— 10: 1,695,557
306— 14: 1,695,438
308— 11: 1,695,945
24: 1,696,161
1,696,162
83: 1,695,754
125: 1,695,776
134: 1,696,094
312— 5: 1,695,661
36: 1,695,956
66: 1,696,035
73: 1,696,080
84: 1,695,460
141: 1,696,123

# ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A.-S. Gea (Farmaceutisk-Kemisk Fabrik), Copenhagen, Denmark. Pharmaceutical preparations for the treatment of gonorrhea. 251,070; Dec. 25; Serial No. 269,566; published Sept. 25, 1928. Class 6.

Acme Laboratories, New York, N. Y. Skin creams, nail polish, and remover. 251,109; Dec. 25; Serial No. 255,621; published Aug. 28, 1928. Class 6.

Adams, James E., Boston, Mass. Leather shoes. 71,933; renewed Dec. 22, 1928.

Aero Robe Co., Philadelphia, Pa. Cotton blanket bath robes, woolen, flannel, and rayon bath robes. 251,051; Dec. 25; Serial No. 270,363; published Oct. 2, 1928. Class 39.

Alkahn Silk Label Co. Inc. (See Kahn, Alexander L., assignor.)

American Cone & Pretzel Company, Philadelphia, Pa. Ice-cream cones, pretzels, pie, etc. 251,055; Dec. 25; Serial No. 270,272; published Oct. 9, 1928. Class 46.

Anthony Brothers, Incorporated, also doing business as Biltmore Manufacturing Co., San Francisco, Calif. Knit underwear. 251,063; Dec. 25; Serial No. 269,934; published Oct. 9, 1928. Class 39.

Ault & Wiborg Co., The, Cincinnati, Ohio. Printing ink. 73,405; renewed Apr. 20, 1929.

Bakst, Max, doing business as Strobak Laboratories, New York, N. Y. Pharmaceutical preparation for dandruff and loss of hair. 251,089; Dec. 25; Serial No. 264,413; published Sept. 25, 1928. Class 6.

Bayly-Underhill Mfg. Co., The, Denver, Colo. Overalls, shirts, pants, etc. 251,121; Dec. 25; Serial No. 224,803; published Mar. 2, 1926. Class 39.

Berg, Charles F., Portland, Oreg. Hosiery. 251,057; Dec. 25; Serial No. 270,228; published Oct. 9, 1928. Class 39.

Berkshire Knitting Mills, Reading, Pa. Hosiery. 251,098; Dec. 25; Serial No. 262,148; published Aug. 21, 1928. Class 39.

Berne Manufacturing Company, Berne, Ind. Dress and flannel shirts. 251,044; Dec. 25; Serial No. 270,624; published Sept. 25, 1928. Class 39.

Biltmore Manufacturing Co. (See Anthony Brothers, Incorporated.)

Bis-Ark Company. (See Throgmorton, Charles S.)

Blechman, S., & Sons, Inc., New York, N. Y. Children's caps, Windsor ties for children, corsets, children's shoes, etc. 251,113; Dec. 25; Serial No. 247,248; published Aug. 23, 1927. Class 39.

Blumberg, Moses, & Sons Inc., New York, N. Y. Women's wearing apparel. 251,031; Dec. 25; Serial No. 268,267; published Oct. 9, 1928. Class 39.

Böhme, H. Th., A. G., Chemnitz, Germany. Chemical dye aids. 251,084; Dec. 25; Serial No. 266,786; published Oct. 9, 1928. Class 6.

Boy-Togs Manufacturing Company, Dallas, Tex. One-piece overall union suits for boys. 251,062; Dec. 25; Serial No. 269,937; published Oct. 9, 1928. Class 39.

Burrough Brothers Manufacturing Company, Cleveland, Ohio, and Baltimore, Md. Gastrointestinal antiseptic. 251,082; Dec. 25; Serial No. 267,529; published Sept. 25, 1928. Class 6.

Cahill, Laura S., doing business as Crowning Glory Manufacturing Company, Roanoke, Va. Preparation for use in growing hair. 251,023; Dec. 25; Serial No. 268,530; published Sept. 25, 1928. Class 6.

Cahn, Milton, Company, Inc., New York, N. Y. Face powder, talcum powder, rouges, etc. 251,103; Dec. 25; Serial No. 260,161; published Oct. 9, 1928. Class 6.

Carmi Manufacturing Company, Inc., Carmi, Ill. Men's underwear. 251,087; Dec. 25; Serial No. 266,354; published Oct. 9, 1928. Class 39.

Cheltenham Knitting Co., Philadelphia, Pa. Underwear. 251,072; Dec. 25; Serial No. 269,509; published Sept. 25, 1928. Class 39.

Chemische Fabrik Stockhausen & Cie., Krefeld, Germany. Dyes and dyestuffs, chemical products, etc. 251,095; Dec. 25; Serial No. 263,459; published Oct. 9, 1928. Class 6.

Chemische Fabrik von Heyden, Gesellschaft mit beschränkter Haftung, Radebeul, Germany, assignor, by mesne assignments, to Heyden Chemical Corporation, New York, N. Y. Chemical and pharmaceutical preparations. 32,451-2; renewed Jan. 31, 1929.

Clark Poultry Research Laboratories, Inc., Cleveland, Ohio. Insecticides. 251,094; Dec. 25; Serial No. 263,640; published Sept. 25 1928. Class 6.

Clover Splint Coal Company, Pittsburgh, Pa. Coal. 251,028-30; Dec. 25; Serial Nos. 268,351-3; published Aug. 28, 1928. Class 1.

Cohen, Arthur, Dress Corporation, New York, N. Y. Dresses. 251,054; Dec. 25; Serial No. 270,280; published Oct. 9, 1928. Class 39.

Colit Laboratories. (See Nazaroff, Alexander.)

Collier, Charles V., doing business as The Pynoil Company, St. Petersburg, Fla. External preparation used as a healing antiseptic for skin irritations, etc. 251,088; Dec. 25; Serial No. 266,126; published Sept. 25, 1928. Class 6.

Connell, Daniel A., Co., Chicago, Ill. Cheese. 251,100; Dec. 25; Serial No. 261,422; published June 5, 1928. Class 46.

Consumers Butter Co., Inc., Minneapolis, Minn. Butter. 251,067; Dec. 25; Serial No. 269,637; published Oct. 9, 1928. Class 46.

Creolin Co., The. (See Pearson's Antiseptic Co. Limited, assignor.)

Crowning Glory Manufacturing Company. (See Cahill, Laura S.)

Cutter Laboratory, The, Berkeley, Calif. Colloidal iron cacodylate. 251,040; Dec. 25; Serial No. 270,956; published Oct. 9, 1928. Class 6.

Davis Standard Bread Co., Incorporated, Los Angeles, Calif. Doughnuts. 251,035; Dec. 25; Serial No. 271,685; published Oct. 9, 1928. Class 46.

Doughnut Machine Corporation, New York, N. Y. Doughnut mixture. 251,125; Dec. 25; Serial No. 268,854; published Oct. 9, 1928. Class 46.

Drackett Chemical Company, The, Cincinnati, Ohio. Epsom salt. 251,039; Dec. 25; Serial No. 270,960; published Oct. 9, 1928. Class 6.

Earnshaw Knitting Company, Newton, Mass. Children's and infants' underwear and undergarments. 251,047; Dec. 25; Serial No. 270,472; published Sept. 25, 1928. Class 39.

Eau de Cologne- & Parfümerie-Fabrik "Glockengassee No. 4711" gegenüber der Pferdepost von Ferd. Mülhens. (See Mülhens, Paul P.)

Eve Lastik Knitting Mills, Inc., Philadelphia, Pa. Sweaters and bathing suits. 251,099; Dec. 25; Serial No. 261,746; published Oct. 2, 1928. Class 39.

Fadrich Corporation. (See Richter, F. Ad., & Co.)

Feibelman, L., & Co., Inc., New Orleans, La. Shirts, coats, suits, and dresses. 251,105; Dec. 25; Serial No. 259,109; published Oct. 9, 1928. Class 39.

Fischer Baking Co., Newark, N. J. Bread. 251,120; Dec. 25; Serial No. 238,014; published Apr. 24, 1928. Class 46.

Ford, J. B., Company, The, Wyandotte, Mich. Solvent clarifier. 251,060; Dec. 25; Serial No. 268,537; published Oct. 9, 1928. Class 6.

Foster, M. B., & Sons, Limited, assignor to M. B. Foster & Sons, Limited, London, England. Beer. 73,139; renewed Mar. 16, 1929.

Fownes Brothers & Co., London, England, assignor to Fownes Brothers & Co. Incorporated, New York, N. Y. Gloves. 32,121; renewed Nov. 8, 1928.

Fraim, E. T., Lock Company, The, Lancaster, Pa. Locks. 73,358; renewed May 4, 1929.

Frank, B., & Sons, New York, N. Y., assignor, by mesne assignments, to Lindenold Sole Leather Co. Inc., Newark, N. J. Sole and upper leather and tanned hides. 72,423; renewed Jan. 26, 1929.

Garcia & Vega, New York, N. Y. Cigars. 73,291; renewed Apr. 6, 1929.

Gelles, Max, doing business as Gelles Neckwear Co., Boston, Mass. Men's necktles and mufflers. 251,076; Dec. 25; Serial No. 269,233; published Oct. 2, 1928. Class 39.

General Mills, Inc. (See Washburn Crosby Company, assignor.)

Gerber & Co. Inc., New York, N. Y. Cheese. 251,045; Dec. 25; Serial No. 270,585; published Oct. 9, 1928. Class 46.

Goldberg, Samuel, Cincinnati, Ohio. Cloaks, suits, capes, etc. 251,114; Dec. 25; Serial No. 243,756; published Oct. 2, 1928. Class 39.

Gotham Silk Hosiery Co. Inc., New York, N. Y. Hosiery. 251,119; Dec. 25; Serial No. 239,579; published Sept. 25, 1928. Class 39.

Grigsby-Grunow Company, Chicago, Ill. Phonographs and phonograph records. 251,122; Dec. 25; Serial No. 269,114; published Sept. 18, 1928. Class 36.

Guest Neckwear Company, Inc., Rochester, N. Y. Silk mufflers and silk necktles. 251,111; Dec. 25; Serial No. 254,036; published Oct. 9, 1928. Class 39.

H. E. B. Laboratory. (See Stall, Leo W.)

Haberland Manufacturing Company, Allwood, N. J. Chemical preparation. 251,024-5; Dec. 25; Serial Nos. 268,494-5; published Oct. 9, 1928. Class 6.

Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, Hanover-Limmer, Germany, assignor to Hanover Rubber Co. "Excelsior" Inc., New York, N. Y. Rubber goods. 71,200; renewed Nov. 10, 1928.

Hanover Rubber Co. "Excelsior" Inc. (See Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft, assignor.)

Henbert Silk Co., New York, N. Y. Cloth linings for fur coats. 251,065; Dec. 25; Serial No. 269,756; published Oct. 9, 1928. Class 39.

Hengerer, William, Company, The, Buffalo, N. Y. Gloves. 251,117; Dec. 25; Serial No. 242,004; published Sept. 25, 1928. Class 39.

Herron, Charles A., doing business as The Stomaid Laboratories, Wichita, Kans. Stomaid. 251,079; Dec. 25; Serial No. 269,189; published Oct. 9, 1928. Class 6.

Heyden Chemical Corporation. (See Chemische Fabrik von Heyden, Gesellschaft mit beschränkter Haftung, assignor.)

Hickey-Freeman Co., Rochester, N. Y. Men's suits, topcoats, and overcoats. 251,048; Dec. 25; Serial No. 270,426; published Sept. 25, 1928. Class 39.
Hickey-Freeman Co., Rochester, N. Y. Suits, topcoats, and overcoats. 251,049; Dec. 25; Serial No. 270,425; published Oct. 9, 1928. Class 39.
Higginbotham-Bailey-Logan Company, Dallas, Tex., and New York, N. Y. Boys' dress shirts, work shirts, collars, etc. 251,026; Dec. 25; Serial No. 268,440; published Sept. 25, 1928. Class 39.
Hiller Bros. and Hiller, New York, N. Y. Coats. 251,075; Dec. 25; Serial No. 269,237; published Sept. 25, 1928. Class 39.
Huff, Ira P., Elm Grove, Wheeling, W. Va. Hand and general-purpose soap. 251,108; Dec. 28; Serial No. 256,321; published Dec. 13, 1927. Class 4.
Ichthyol Gesellschaft Cordes, Hermanni & Co., Hamburg, Germany, assignor to The Ichthyol Co., Rahway, N. J. Preparations of hydrocarbon containing sulphur. 72,605; renewed Feb. 9, 1929.
Ideal Bath Robe Co. Inc., Brooklyn N. Y. Children's and infants' buntings and sacques. 251,115; Dec. 25; Serial No. 243,704; published Oct. 9, 1928. Class 39.
Inderrieden, J. B., Co., The. (See Waukesha Canning Co., assignor.)
Jauregui, Francisco, and Luis Lancelotti, Buenos Aires, Argentina. Serum for treating syphilis. 251,106; Dec. 25; Serial No. 258,028; published Sept. 25, 1928. Class 6.
Jennings, L. T., Company, Inc., The, Saginaw, Mich. Foundation garments. 251,093; Dec. 25; Serial No. 263,654; published Sept. 18, 1928. Class 39.
Johnson, James T., jr., Scranton, Pa. Sleeping garments. 251,071; Dec. 25; Serial No. 269,528; published Oct. 2, 1928. Class 39.
Kahn, Alexander L., assignor to Alkahn Silk Label Co. Inc., New York, N. Y. Woven labels. 73,551; renewed Apr. 27, 1929.
Keystone Laborntories, Memphis, Tenn. Face powder. 251,110; Dec. 25; Serial No. 254,918; published Oct. 9, 1928. Class 6.
King, E. W., Company, Bristol, Tenn. Work and dress shirts, overalls, trousers, etc. 251,056; Dec. 25; Serial No. 270,250; published Oct. 9, 1928. Class 39.
Kresge Department Store Corporation, Newark N. J. Men's and boys' outer clothing. 251,061; Dec. 25; Serial No. 269,964; published Oct. 9, 1928. Class 39.
Kretschmar Sausage Manufacturing Company, St. Louis, Mo. Sausage. 73,240; renewed Apr. 6, 1929.
Landauer & Co., London, England. Canned apricots, pears, and peaches. 251,083; Dec. 25; Serial No. 266,998; published Sept. 25, 1928. Class 46.
Lindenoid Sole Leather Co. Inc. (See Frank, B., & Sons, assignor.)
Little Falls Manufacturing Co., Little Falls, N. Y. Knitted underwear. 73,602; renewed May 11, 1929.
Long, Ella M., doing business as Mrs. S. F. Long, Chapel Hill, N. C. Preparation for treating roup in chickens. 251,096; Dec. 25; Serial No. 263,220; published Sept. 25, 1928. Class 6.
Lueders, George, & Co., New York, N. Y., and Chicago, Ill., assignor to George Lueders & Co., New York, N. Y. Olive oil, essential oils, etc. 31,831; renewed Aug. 2, 1928.
M. & H. Block Co., New York, N. Y. Neckwear and mufflers, necktles, and collars. 251,127; Dec. 25; Serial No. 268,672; published Oct. 9, 1928. Class 39.
Massachusetts Cotton Mills, Lowell, Mass., assignor to Pepperell Manufacturing Company, Boston, Mass. Colored woven shirting fabrics. 72,490; renewed Jan. 26, 1929.
Matusow, Harry, Philadelphia, Pa. Specific for certain diseases. 73,474; renewed Apr. 20, 1929.
McMillen Co., The, Fort Wayne, Ind. Poultry, dairy, and stock feeds. 251,034; Dec. 25; Serial No. 271,703; published Oct. 9, 1928. Class 46.
Mennel Milling Company, The, Toledo, Ohio. Wheat flour. 251,030; Dec. 25; Serial No. 271,557; published Oct. 9, 1928. Class 46.
Michigan Alkali Company, Wyandotte, Mich. Soda ash, bicarbonate of soda, etc. 32,438; renewed Jan. 31, 1929.
Monaderb Company. (See Trillo, Rocco.)
Morley, I. & R., London, England. Men's drawers, trousers, shirts, etc. 251,090; Dec. 25; Serial No. 264,041; published Sept. 25, 1928. Class 39.
Mülhens, Paul P., doing business as Eau de Cologne- & Parfümerie-Fabrik "Glockengasse No. 4711" gegenüber der Pferdepost von Ferd. Mülhens, Cologne-on-the-Rhine, Germany. Lotions, creams, and powders. 251,116; Dec. 25; Serial No. 242,098; published Oct. 9, 1928. Class 6.
Muralo Company, The, New York, N. Y., assignor to The Muralo Company, Inc., New Brighton, N. Y. Calcimine. 73,198; renewed Mar. 30, 1929.
Nazaroff, Alexander, doing business as Colit Laboratories, New York, N. Y. Liniments. 251,069; Dec. 25; Serial No. 269,598; published Oct. 9, 1928. Class 6.
Nestlé, Henri, London, England; Christiana, Norway; and Vevey, Switzerland, assignor, by mesne assignments, to Nestle's Food Company, Inc., New York, N. Y. Condensed milk. 32,813; renewed May 2, 1929.
Nev Chemical Co., Brooklyn, N. Y. Ointment and salve. 251,128; Dec. 25; Serial No. 268,556; published Sept. 25, 1928. Class 6.
New Haven Silk Hosiery Co., New Haven, Ind. Ladies' hosiery. 251,104; Dec. 25; Serial No. 259,817; published Oct. 2, 1928. Class 39.
New York Lubricating Oil Company, New York, N. Y. Lubricating greases and oils. 72,380; renewed Jan. 19, 1929.
New York Mackintosh Clothing Company, New York, N. Y. Raincoats. 251,086; Dec. 25; Serial No. 266,474; published Sept. 25, 1928. Class 39.
Nobles & Hoare, assignor to Nobles & Hoare Ltd., London, England. Varnihses, japans, colors, etc. 32,590; renewed Mar. 14, 1929.
Omega Chemical Company, The, New York, N. Y. Preparation for the treatment of rheumatism, etc. 251,091–2; Dec. 25; Serial Nos. 263,664–5; published Oct. 9, 1928. Class 6.
Page Milling Co., The, Luray, Va. Flours. 251,058; Dec. 25; Serial No. 270,198; published Oct. 9, 1928. Class 46.
Pepperell Manufacturing Company. (See Massachusetts Cotton Mills, assignor.)
Parke, Davis & Company, Detroit, Mich. Emulsion of liquid petrolatum with agar for medicinal use. 251,074; Dec. 25; Serial No. 269,252; published Sept. 25, 1928. Class 6.
Parkinson, Stephen H., doing business as R. Parkinson & Sons, Burnley, England. Pills for ills related to the liver and digestive and eliminative tracts. 251,107; Dec. 25; Serial No. 257,250; published May 8, 1928. Class 6.
Pearson's Antiseptic Co. Limited, London, England, assignor to The Creolin Co., Rahway, N. J. Disinfectant. 73,478; renewed Apr. 20, 1929.
Peek, Frean & Co., Limited, London, England. Foods. 73,181; renewed Mar. 23, 1929.
Person, Alice, assignor to Rufus M. Person, Charlotte, N. C. Remedies. 72,472; renewed Jan. 26, 1929.
Phillips-Jones Corporation, New York, N. Y. Underwear and pajamas. 251,050; Dec. 25; Serial No. 270,390; published Oct. 9, 1928. Class 39.
Pitman-Moore Company, Indianapolis, Ind. Preparation for the treatment of achylia gastrica, etc. 251,038; Dec. 25; Serial No. 271,081; published Oct. 9, 1928. Class 6.
Pittsburgh Elevator Co., The, Pittsburg, Kans. Mixed feed, barley chop, etc. 251,124; Dec. 25; Serial No. 268,936; published Oct. 9, 1928. Class 46.
Puritan Clothing Company, New York, N. Y. Coats. 251,046; Dec. 25; Serial No. 270,505; published Oct. 9, 1928. Class 39.
Pynoil Company, The. (See Collier, Charles V.)
Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic or chemically-prepared resins. 251,068; Dec. 25; Serial No. 269,622; published Oct. 2, 1928. Class 6.
Richter, F. Ad., & Co. of New York, now, by change of name, Fadrich Corporation, assignor to F. Ad. Richter & Co. Inc., Brooklyn, N. Y. Liniment. 251,101; Dec. 25; Serial No. 268,308; published Sept. 25, 1928. Class 6.
Rosenberg, Louis J., New York, N. Y. Herbs or tea for stomach troubles. 251,126; Dec. 25; Serial No. 268,632; published Sept. 11, 1928. Class 6.
Rothblum, Ben, New York, N. Y. Dresses and coats. 251,059; Dec. 25; Serial No. 269,984; published Oct. 2, 1928. Class 39.
Routzahn, Charles D. (See Weaver-Markel Chemical Company, The.)
Schanzenbach, J., & Co., Inc., New York, N. Y. Hot-oil scalp treatment. 251,037; Dec. 25; Serial No. 271,088; published Oct. 9, 1928. Class 6.
Schlesinger, B. F., & Sons, Inc., New York, N. Y. Dresses. 251,085; Dec. 25; Serial No. 266,484; published Oct. 9, 1928. Class 39.
Schuienberg, B. M., doing business as Swiss-Snow Laboratories, Chicago, Ill. Skin cleanser and tissue builder. 251,042; Dec. 25; Serial No. 270,862; published Oct. 9, 1928. Class 6.
Schwarz, Samuel, to Schwarz Druggists, Inc., Newark, N. J., successor. Insecticide and vermin destroyer. 73,302; renewed Apr. 6, 1929.
Scott, Rufus W., Company, New York, N. Y. Hosiery. 251,102; Dec. 25; Serial No. 260,756; published Sept. 25, 1928. Class 39.
Simmons, George W., Corporation, New York, N. Y. Chlorinated lime and ammonia. 251,027; Dec. 25; Serial No. 268,397; published Sept. 11, 1928. Class 6.
Smith, Addie E., doing business as Smith Bros., Berkeley and Oakland, Calif. Preparation for use in the treatment of dyspepsia. 251,078; Dec. 25; Serial No. 269,209; published Sept. 25, 1928. Class 6.
Société Anonyme de la Distillerie de la Liqueur Bénédictine de l'Abbaye de Fécamp, to Societe Anonyme de la Bénédictine, Distillerie de la Liqueur de l'Ancienne Abbaye de Fécamp, Fecamp, France. Liqueur called Benedictine. 71,552–4; renewed Dec. 1, 1928.
Solomon Mfg. Co., St. Louis, Mo. Aprons. 251,073; Dec. 25; Serial No. 269,488; published Sept. 25, 1928. Class 39.
Stall, Leo W., also doing business as H. E. B. Laboratory, Buffalo, N. Y. Cough medicine. 251,066; Dec. 25; Serial No. 269,696; published Oct. 9, 1928. Class 6.
Stearns, Frederick, & Co., Detroit, Mich. Perfumes, toilet cream, etc. 73,618; renewed May 4, 1929.
Stomaid Laboratories, The. (See Herron, Charles A.)
Stone, Anna, doing business as Max Stone, Corona, N. Y. Work shirts. 251,043; Dec. 25; Serial No. 270,730; published Oct. 9, 1928. Class 39.



Strobak Laboratories. (See Bakst, Max.)
Strutwear Knitting Company, Minneapolis, Minn. Hosiery and knit and woven underwear. 251,032–3; Dec. 25; Serial Nos. 268,249–50; published Oct. 9, 1928. Class 39.
Swiss-Snow Laboratories. (See Schulenberg, B. M.)
Tartikoff, J., & Sons, New York, N. Y. Children's outer suits. 251,064; Dec. 25; Serial No. 269,869; published Oct. 2, 1928. Class 39.
Thayer, Henry, & Company, assignor to Henry Thayer & Co. Inc., Cambridge, Mass. Medicated lozenges for coughs. 71,230; renewed Nov. 10, 1928.
Throgmorton, Charles S., doing business as Bis-Ark Company, Brinkley, Ark. Medicine. 251,080; Dec. 25; Serial No. 269,161; published Sept. 25, 1928. Class 6.
Tonner, William T., Inc., Lansdale, Pa. Hosiery. 251,112; Dec. 25; Serial No. 249,823; published Feb. 21, 1928. Class 39.
Trillo, Rocco, doing business as Monaderb Company, North Merchantville, N. J. Mixture of dried and coarsely-ground roots, herbs, and barks of medicinal value. 251,077; Dec. 25; Serial No. 269,211; published Oct. 9, 1928. Class 6.
Turner and Harrison Pen Manufacturing Company, to The Turner & Harrison Pen Manufacturing Company, Inc., Philadelphia, Pa., successor. Writing-pens. 73,145; renewed Mar. 16, 1929.
Tuxedo Hat Body Corporation, The, New York, N. Y. Ladies' felt hat bodies. 251,081; Dec. 25; Serial No. 267,617; published Aug. 21, 1928. Class 39.
Twentieth Century Rayon Textiles, Inc., New York, N. Y. Knitted fabrics. 251,041; Dec. 25; Serial No. 270,899; published Oct. 9, 1928. Class 42.
United Bi-Products Company, Kansas City, Mo. Pig and hog feed. 251,097; Dec. 25; Serial No. 263,187; published Oct. 9, 1928. Class 46.
United Drug Company, assignor, by mesne assignments, to United Drug Company, Boston, Mass. Absorbent cotton. 73,654; renewed May 4, 1929.
Universal Overalls Company, Chicago, Ill. Men's overalls. 251,053; Dec. 25; Serial No. 270,359; published Oct. 9, 1928. Class 39.
Washburn Crosby Company, assignor to General Mills, Inc., Minneapolis, Minn. Wheat flour. 72,916; renewed Mar. 2, 1929.
Waterman, L. E., Company, New York, N. Y. Writing ink. 72,285–6; renewed Jan. 12, 1929.
Waukesha Canning Co., Waukesha, Wis., assignor, by mesne assignments, to The J. B. Inderrieden Co., Chicago, Ill. Canned peas. 72,123–4; renewed Jan. 5, 1929.
Waukesha Canning Co., Waukesha, Wis., assignor, by mesne assignments, to The J. B. Inderrieden Co., Chicago, Ill. Canned peas and canned corn. 72,693; renewed Feb. 9, 1929.
Waukesha Canning Co., Waukesha, Wis., assignor, by mesne assignments, to The J. B. Inderrieden Co., Chicago, Ill. Canned peas, canned beans, and canned corn. 72,694; renewed Feb. 9, 1929.
Waukesha Canning Co., Waukesha, Wis., assignor, by mesne assignments, to The J. B. Inderrieden Co., Chicago, Ill. Canned peas, corn, and tomatoes. 72,695; renewed Feb. 9, 1929.
Waukesha Canning Co., Waukesha, Wis., assignor, by mesne assignments, to The J. B. Inderrieden Co., Chicago, Ill. Canned peas, corn, and tomatoes. 73,121; renewed Mar. 16, 1929.
Weaver-Markel Chemical Company, The, Union Bridge, to Charles D. Routzhan, Mount Airy, Md., successor. Medical compounds. 32,136; renewed Nov. 8, 1928.
White Swan Shirt Company, Chicago, Ill. Shirts. 251,123; Dec. 25; Serial No. 269,010; published Oct. 9, 1928. Class 39.
Wiener & Katz, New York, N. Y. Coats, vests, trousers, etc. 251,052; Dec. 25; Serial No. 270,362; published Oct. 9, 1928. Class 39.
Williams Drop Forging Company, The, Scranton, Pa. Horseshoe calks. 70,823; renewed Oct. 6, 1928.
Wunderlich, Edward, New Orleans, La. Medicinal compounds and articles. 32,318; renewed Jan. 3, 1929.
Zion's Co-Operative Mercantile Institution, Salt Lake City, Utah. Clothing. 251,118; Dec. 25; Serial No. 241,365; published Sept. 25, 1928. Class 39.

# ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Adson Chemical Company, Inc., New York, N. Y. 8-Hour Emanation—Ozo Mist—Directions. For Inhalant for Treating Nasal and Bronchial Disorders. 35,124; Dec. 25.
Bedford Johnson Company, Inc., New York, N. Y. Bedford Tailored Trousers. For Men's Dress Pants. 35,125; Dec. 25.
Benandle, Nasle, San Francisco, Calif. Poweroyl. For Combustion-Chamber-Lubricating Oil. 35,126; Dec. 25.
Burgess Battery Company, Madison, Wis. Ten Burgess Snaplite Batteries. For Flash-Light Batteries. 35,127; Dec. 25.
Central Waxed Paper Company, Chicago, Ill. Blue Ribbon Bread. For Bread. 35,128; Dec. 25.
Cohn-Hopkins, Inc., San Diego, Calif. Family Style. For Tuna for Salad. 35,130; Dec. 25.
Collins-Lee Co., Chelsea, Mass. Red E to Cook. For Fish Fillets. 35,131; Dec. 25.
Earl Fruit Company, Wenatchee, Wash. Try One. For Fresh Pears. 35,132; Dec. 25.
Earl Fruit Company, Wenatchee, Wash. Try One. For Fresh Apples. 35,133; Dec. 25.
Engelhard, A., & Sons Co., Louisville, Ky. Engelhard's Breakfast Package Coffee. For Coffee. 35,134; Dec. 25.
Ford Vending Machine Corporation, Lockport, N. Y. Niagara Chewing Gum. For Chewing Gum. 35,135; Dec. 25.
Friday Canning Corporation, New Richmond, Wis. Everyday. For Canned Peas. 35,136; Dec. 25.
Hart Drug Company, Temple, Ga. Harts Exapain Best for Pain. For a Medicinal Preparation in Tablet Form. 35,137; Dec. 25.
Heller, B., & Company, Chicago, Ill. Bull-Meat-Brand-Flour. For Flour. 35,138; Dec. 25.
Heller, B., & Company, Chicago, Ill. $1000.00 Guaranteed Moth Killer. For Preparation in Liquid Form for Killing Moths. 35,139; Dec. 25.
Heller, B., & Company, Chicago, Ill. Zanzibar Brand Royal Zest Poultry Seasoning. For Poultry Seasoning. 35,140; Dec. 25.
Horst, E. Clemens, Co., San Francisco, Calif. Homepack. For Canned Peaches. 35,129; Dec. 25.
Keystone Chemical Co., Inc., Cleveland, Ohio. Sprayit. For Insecticide. 35,141; Dec. 25.
Lewis, G. B., Company, Watertown, Wis. Eat More Honey. For Comb Honey. 35,142; Dec. 25.
Liesch, William A., Chicago, Ill. Malt Lax. For Laxative Cough and Cold Medicine. 35,143; Dec. 25.
Milford Canning Co., The, Milford, Ill. Directions. For Canned Corn. 35,144; Dec. 25.
Rogers Company, The, Seattle, Wash. School Boy Peanut Butter. For Peanut Butter. 35,145; Dec. 25.
Rudy-Patrick Seed Company, Kansas City, Mo. Oh Boy. For Poultry Feeds. 35,146; Dec. 25.
Saylor's Miss, Chocolates Inc., Alameda, Calif. Miss Saylor's Unusual Chocolates. For Chocolates. 35,147; Dec. 25.
Schwabacher Bros. & Co. Inc., Seattle, Wash. Gold Shield. For Coffee. 35,148; Dec. 25.
Scully, D. B., Syrup Co., Chicago, Ill. Skookum Syrup. For Table Syrup. 35,149; Dec. 25.
Storfold & Grondahl Pkg. Co., Seattle, Wash. Prime-Cut Brand Sliced Smoked Salmon. For Sliced Smoked Salmon. 35,150; Dec. 25.
Weinberg & Goldsmith, Newark, N. J. White Star. For Eggs. 35,151; Dec. 25.

# ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Arden, Elizabeth, Inc., doing business as Elizabeth Arden, New York, N. Y. The Gift of Gifts—Exquisite Beauty. For Venetian Toilet Preparations. 11,402; Dec. 25.
Black, Starr & Frost, New York, N. Y. There is a Gift that Kings and Lovers and Wise Men have given since Time began. For Jewelry. 11,403; Dec. 25.
C. G. Spring & Bumper Company, The, Detroit, Mich. Engineering Plus. For Vehicle Bumpers. 11,406; Dec. 25.
C. G. Spring & Bumper Company, The, Detroit, Mich. Millions of C G Bumpers now in Use. For Vehicle Bumpers. 11,407; Dec. 25.
Cadet Knitting Company, The, Philadelphia, Pa. Cadet Chevron. For Hosiery. 11,404; Dec. 25.
Cadet Knitting Company, The, Philadelphia, Pa. Cadet Cubist. For Hosiery. 11,405; Dec. 25.
Comey, R. H., Companies Consolidated, Brooklyn, N. Y. Spring Colors 1929. For Straw Braids and Body Hats. 11,408; Dec. 25.
Cream of Wheat Co., Minneapolis, Minn. So Successful with Pupils that our Teachers want to repeat it. For Wheat Breakfast Food. 11,409; Dec. 25.
Gould, Barbara, Ltd., New York, N. Y. The Art of Creative Beauty. For Cleansing Creams, Vanishing Creams, Cold Creams, Hand Creams, Weather Creams, Tissue Creams, Astringent Creams, Lip Sticks, Single Vanities, Face Powders, Skin Fresheners, Astringent Lotions, and Complexion Dressings. 11,410; Dec. 25.
Heins, H. J., Company, Pittsburgh, Pa. Take Your First Bite. For Mincemeat. 11,411; Dec. 25.

Lind Shoe & Slipper Company, Inc., Worcester, Mass. Foot Comfort for the Entire Family. For Slippers. 11,412; Dec. 25.

McKee, W. C., doing business as No. 9 Chemical Company, Columbus, Ga. Rat Killing Made Easy. For Rat Killer. 11,413; Dec. 25.

Molter-Reinhard Co., Inc., Chicago, Ill. The Art Needlework Fair. For Needlework. 11,414; Dec. 25.

No. 9 Chemical Company. (See McKee, W. C.)

Squibb, E. R., & Sons, New York, N. Y. The Cleansing of the Tropics. For Cod-Liver Oil, Epsom Salt, Milk of Magnesia, Boric Acid, Bicarbonate of Soda, and Castor Oil. 11,415; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. 6 Minutes a Day for the Teeth . . . . is that too much when Health and Beauty are at Stake? For Dental Cream. 11,416; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. It Cannot be Stated too Emphatically—. For Dental Cream. 11,417; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. A Night Club for Tired Smokers. For Dental Cream. 11,418; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. Get the News. For Dental Cream. 11,419; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. Keep that Morning Sparkle. For Dental Cream. 11,420; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. So Many Women. For Dental Cream and Milk of Magnesia. 11,421; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. First and Last. For Dental Cream. 11,422; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. A Smoking Forecast. For Dental Cream. 11,423; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. A New Appetizer for You. For Dental Cream. 11,424; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. That First Smoke in the Morning. For Dental Cream. 11,425; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. Neglect of Baby Teeth may easily Mar your Children's Future. For Dental Cream and Milk of Magnesia. 11,426; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. It may seem Strange but Adults are beginning to take Castor Oil. For Castor Oil. 11,427; Dec. 25.

Squibb, E. R., & Sons, New York, N. Y. To the Wise Smoker. For Dental Cream. 11,428; Dec. 25.

Summit Oil Corporation, Denver, Colo. Cleansol the Perfected Radiator Cleanser. For Preparation Used as a Cleanser of Automobile Radiators and Cooling Systems. 11,429; Dec. 25.

Vick Chemical Company, Philadelphia, Pa. Just Rub on Vicks Vapo Rub. For Remedies for the Relief of Colds. 11,430; Dec. 25.

Vitaglass Corporation, New York, N. Y. Modern Hospitals make Use of Vita Glass in rebuilding the Health of their Patients. For Glass. 11,431; Dec. 25.

Vitaglass Corporation, New York, N. Y. Your Sunlit Rooms are Sunless. For Glass. 11,432; Dec. 25.

Vitaglass Corporation, New York, N. Y. Give your Child Vacation Sunshine All Year Round. For Glass. 11,433; Dec. 25.

Vitaglass Corporation, New York, N. Y. School Days Shorten His Hours Out-doors. For Glass. 11,434; Dec. 25.

Vitaglass Corporation, New York, N. Y. Is Your Child Trying to Grow up on a Half-Ration of Sunshine? For Glass. 11,435; Dec. 25.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abbey Shirt Company, Inc., New York, N. Y. Men's dress shirts. 273,734; Dec. 25. Class 39.

Alexandria Poultry Farms, Inc., Caledonia, Wis. Eggs. 273,172; Dec. 25. Class 46.

American Crayon Company, The, Sandusky, Ohio. Chalk. 269,175; Dec. 25. Class 37.

American Crayon Company, The, Sandusky, Ohio. Periodicals. 274,957; Dec. 25. Class 38.

American Products Company, The, doing business as Dentex Laboratories, Cincinnati, Ohio. Dentifrice. 275,143; Dec. 25. Class 6.

American Textiles, Inc., Bay City, Mich. Underwear and hosiery. 270,003; Dec. 25. Class 39.

Ams, Max, Incorporated, New York, N. Y. Fruit preserves. 260,644; Dec. 25. Class 46.

Anti-Pneumo Chemical Co. (See Dodd, Horace G.)

Appaline Oil Company, Clarksburg, W. Va. Fuel and lubricating oils and greases. 245,883; Dec. 25. Class 15.

Architects' Small House Service Bureau of the United States, Incorporated, The, Minneapolis, Minn. Publication. 274,817; Dec. 25. Class 38.

Asbury Mills, The, New York, N. Y. Bathing suits, bathing shoes, etc. 273,896; Dec. 25. Class 39.

Associated Apparel Industries, Inc. (See Gossard, H. W., Company.)

Atlantic Mills, The, Olneyville, R. I., and Stottville, N. Y. Silk and wool piece goods. 266,118; Dec. 25. Class 42.

Badger Raincoat Co., The, Port Washington, Wis. Waterproof coats, capes, hats, etc. 269,386; Dec. 25. Class 39.

Baker Brush Co., Inc., New York, N. Y. Artists' brushes. 271,285; Dec. 25. Class 29.

Baker, Jones, Hausauer, Inc., Buffalo, N. Y. Publications. 274,906; Dec. 25. Class 38.

Bakers' Helper Co., Chicago, Ill. Magazine. 274,607; Dec. 25. Class 38.

Ball, Robine, San Francisco, Calif. Lesson sheets and charts. 272,596; Dec. 25. Class 38.

Banks, Charles L., doing business as P-B Superior Inc., St. Louis, Mo. Electric hair clippers, hair-clipper parts, etc. 270,818; Dec. 25. Class 21.

Barnett, I. H., & Bro., New York, N. Y. Shirts. 263,367; Dec. 25. Class 39.

Bedford Johnson Company, Inc., New York, N. Y. Dress pants. 274,190–1; Dec. 25. Class 39.

Bedford Johnson Company, Inc., New York, N. Y. Dress pants. 274,193; Dec. 25. Class 39.

Belvedere Toilet Products Inc., St. Paul, Minn. Hairdressing preparations. 252,869; Dec. 25. Class 6.

Bergstein, Leonard, doing business as Len-May Laboratory, Detroit, Mich. Spray. 232,601; Dec. 25. Class 6.

Bing Werke, vorm, Gebrüder Bing A. G., Nuremberg, Germany. Phonographs, talking machines, etc. 271,794; Dec. 25. Class 36.

Bour, John M., doing business as Central Milling Co., Toledo, Ohio. Wheat flour. 275,098; Dec. 25. Class 46.

Bronston Bros. and Co., Inc., New York, N. Y. Hats. 268,577; Dec. 25. Class 39.

Brown Bridge Mills, Inc., The, Troy, Ohio. Gummed and coated paper and cloth. 270,168; Dec. 25. Class 37.

Brown Company, Portland, Me., and Berlin, N. H. Paper towels, kraft paper, etc. 273,440; Dec. 25. Class 37.

Burgess, Margaret L., Washington, D. C. Genuine old English chutney. 269,445; Dec. 25. Class 46.

California Medicinal Wine Co. (See Val Bros.)

Callma, Irving, New York, N. Y. Piece goods. 275,348; Dec. 25. Class 42.

Carbon Products Co., The, Lancaster, Ohio. Flash lights and flash-light cases. 273,761; Dec. 25. Class 21.

Carter, Garnet, doing business as Fairyland Mfg. Co., Lookout Mountain, Ga. Apparatus for playing indoor golf. 274,201; Dec. 25. Class 22.

Casco Products Corporation, Bridgeport, Conn. Electric cigar lighters. 268,421; Dec. 25. Class 21.

Central Milling Co. (See Bour, John M.)

Cheer Co., The. (See Embree, Spencer D.)

Chemisch-Pharmazeutische A. G. Bad Homburg, Bad Homburg vor der Hohe, Germany. Chemical preparations. 263,458; Dec. 25. Class 6.

Cheramy, Inc., New York, N. Y. Toilet soaps. 269,943–4; Dec. 25. Class 4.

Childress, William, Corpus Christi, Tex. Liniment. 272,198; Dec. 25. Class 6.

Chula Vista Citrus Association, Chula Vista, Calif. Oranges, lemons, grapefruit. 235,115; Dec. 25. Class 46.

Coffman Brothers Company, Waynesboro, Pa. Hand lotion. 273,135; Dec. 25. Class 6.

Collins, J. N., Company, Minneapolis, Minn. Candy. 274,634; Dec. 25. Class 46.

Cooling Devices (America) Ltd., New York, N. Y. Containers for beverages. 272,753; Dec. 25. Class 31.

Coverage Publishing Corporation, New York, N. Y. Periodical. 274,707; Dec. 25. Class 38.

Cowdrey, Frank C., doing business as Cowdrey Drug Co., Van Nuys, Calif. Poultry tonic and insecticidal spray, etc. 272,199; Dec. 25. Class 6.

Cresta Blanca Company, San Francisco, Calif. General medicinal tonic. 273,581; Dec. 25. Class 6.

Cromwell Paper Company, Chicago, Ill. Tympan paper. 275,157; Dec. 25. Class 37.

Crump Laboratories, Incorporated, Louisville, Ky. Medicinal preparations. 264,565; Dec. 25. Class 6.

Curtis-Martin Newspapers, Inc., Philadelphia, Pa. Cartoons. 266,852; Dec. 25. Class 38.

Dartmoor Coat Co., Inc., New York, N. Y. Dresses, sweaters, parkas, etc. 274,004; Dec. 25. Class 39.

Dayton Steel Racquet Company, The, Dayton, Ohio. Tennis racquets. 273,905–8; Dec. 25. Class 22.

Delbon, Frank G., Brooklyn, N. Y. Leather shoes. 269,774; Dec. 25. Class 39.

Deltox Rug Company, Oshkosh, Wis. Periodicals. 274,826; Dec. 25. Class 38.

Dentex Laboratories. (See American Products Company.)

Derby Oil Company, The, Wichita, Kans., and Kansas City, Mo. Motor-fuel oils and fuel oil. 266,023; Dec. 25. Class 15.

Diamalt-Aktien-Gesellschaft, Munich, Germany. Starch grains, starch flour, etc. 261,424; Dec. 25. Class 6.

Diamond Crystal Sugar Co., Inc., New York, N. Y. Sugar. 271,536; Dec. 25. Class 46.



PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Dickson-Jenkins Manufacturing Company, Fort Worth, Tex. Trousers, overalls, shirts, and coveralls. 254,668; Dec. 25. Class 39.

Dieckerhoff, Raffloer & Company, Inc., New York, N. Y. Rubber garments. 254,649; Dec. 25. Class 39.

Dodd, Horace G., doing business as Anti-Pneumo Chemical Co., Richmond, Va. Medicinal salves. 274,384; Dec. 25. Class 6.

Double Quick Cleanser Corporation, Lynchburg, Va. Preparation for cleaning clothing, etc. 274,443; Dec. 25. Class 4.

Drug Salesmen's Association of New York, Inc., The, New York, N. Y. Magazine published semimonthly. 275,430; Dec. 25. Class 38.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Lithopone pigment. 274,386; Dec. 25. Class 16.

Edison Storage Battery Company, West Orange, N. J. Insulating compound or paint. 265,200; Dec. 25. Class 21.

Elberg, Abraham, San Francisco, Calif. Hosiery. 273,914; Dec. 25. Class 39.

Embree, Spencer D., doing business as The Cheer Co., Elizabeth, N. J. Water softeners. 249,711; Dec. 25. Class 6.

Erie Manufacturing Corporation, Erie, Pa. Refrigeration machinery. 271,481; Dec. 25. Class 31.

Evans', L. B., Son Company, Wakefield, Mass. Slippers. 274,263; Dec. 25. Class 39.

Experimenter Publishing Company, Inc., New York, N. Y. Section of the advertising pages of Radio News. 274,149; Dec. 25. Class 38.

Experimenter Publishing Company, Inc., New York, N. Y. Magazine section. 275,026; Dec. 25. Class 38.

Fairyland Mfg. Co. (See Carter, Garnet.)

Finance Publishing Company, The, Cleveland, Ohio. Finance and industry publications. 256,666; Dec. 25. Class 38.

Finestone Hahn Co., Boston, Mass. Men's and boys' caps. 274,447; Dec. 25. Class 39.

Finger, Cahn Co. Inc., New York, N. Y. Wearing apparel. 274,183; Dec. 25. Class 39.

Firelite Fortune Teller Co., Medford, Mass. Fortune-telling game. 271,434; Dec. 25. Class 22.

Flora Shirt Co., Oklahoma City, Okla. Shirts. 255,302; Dec. 25. Class 39.

Ford Motor Company, Fordson, Mich. Spark plugs, electric switches, distributors, etc. 270,542; Dec. 25. Class 21.

Franklin Baker Company, Hoboken, N. J. Nuts. 247,943; Dec. 25. Class 46.

Freiss, Julien, Lausanne, Switzerland. Hair wavers and curlers. 271,177; Dec. 25. Class 40.

Freiss, Julien, Lausanne, Switzerland. Resilient roller for massaging the body. 271,178; Dec. 25. Class 44.

Frost, Avery W., doing business as A. W. Frost Co., Chicago, Ill. Face powder, toilet powder, etc. 273,745; Dec. 25. Class 6.

Gaedke Aktiengesellschaft, Hamburg, Germany. Cacao and cacao products, pralines, cakes, etc. 270,963; Dec. 25. Class 46.

Garland Petroleum Company, Inc., San Francisco, Calif. Lubricating oils and greases, kerosene, and gasoline. 256 521; Dec. 25. Class 15.

Gest, Gu'on M., San Francisco, Calif. Electrically-dehydrated prunes, apricots, and walnuts. 270,330; Dec. 25. Class 46.

Giuffrida, Joseph, doing business as Jay Gee Hat Co., New York, N. Y. Hats. 273,694; Dec. 25. Class 39.

Gossard, H. W., Company, The, now, by change of name, Associated Apparel Industries, Inc., Chicago, Ill. Corsets, brassières, garter belts, etc. 269,954; Dec. 25. Class 39.

Great Northern Shoe Co. (See International Shoe Company.)

Greilich, William, & Sons, Inc., Brooklyn, N. Y. Gaiters. 273,870; Dec. 25. Class 39.

Gretsch, Fred., Mfg. Co., The, New York, N. Y. Violins. 273,050; Dec. 25. Class 36.

Gross, Harold W., doing business as Universal Electric Log Co., Chicago, Ill. Electric logs. 273,905; Dec. 25. Class 21.

Haartz-Mason Rubber Manufacturing Company, Watertown, Mass. Rubberized fabrics. 274,154; Dec. 25. Class 50.

Hale-Halsell Company, McAlester, Okla. Coffee. 272,558; Dec. 25. Class 46.

Halliwell-Shelton Electric Corporation, New York, N. Y. Electric hair dryers. 268,926; Dec. 25. Class 44.

Heating Journals, Inc., New York, N. Y. Publication. 274,715; Dec. 25. Class 38.

Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics. 275,355; Dec. 25. Class 42.

Hook Fast Belt Co., Inc., New York, N. Y. Belt buckles. 271,549; Dec. 25. Class 40.

Howatt, Michael E., New York, N. Y. Hosiery and underwear, scarfs, etc. 274,559; Dec. 25. Class 39.

Imazu, Akira, Osaka, Japan. Insecticide. 264,988; Dec. 25. Class 6.

International Shoe Co., St. Louis, Mo. Boots and shoes. 275,115; Dec. 25. Class 39.

International Shoe Company, doing business as Great Northern Shoe Co., St. Louis, Mo., and Manchester, N. H. Leather boots, shoes, and slippers. 274,269; Dec. 25. Class 39.

Irving-Carl Laboratories, Inc., Reading, Pa. Salve. 272,941; Dec. 25. Class 6.

Jacobs, W. E., Candy Co., Chicago, Ill. Candy. 272,815; Dec. 25. Class 46.

Jacquemoux, Auguste F., Miami, Fla. Confections. 274,977; Dec. 25. Class 46.

Jay Gee Hat Co. (See Giuffrida, Joseph.)

Karmele, Nick, Chicago, Ill. Automobile and radio storage batteries. 257,292; Dec. 25. Class 21.

Kayline Company, The. (See Klein, Benjamin F.)

Kingan & Co., Incorporated, Indianapolis, Ind. Meats, lard, butter, etc. 253,375; Dec. 25. Class 46.

Kingsley Novelty Co., Jamaica, N. Y. Babies' rubber transparent nipples, pacifiers, and teething rings. 271,053; Dec. 25. Class 44.

Klein, Benjamin F., doing business as The Kayline Company, Cleveland, Ohio. Electrical apparatus, machines, and supplies. 273,055; Dec. 25. Class 21.

La Salle Clothing Co., St. Louis, Mo. Men's wearing apparel. 274,834; Dec. 25. Class 39.

Lebanon Shirt Company, Lebanon, Lititz, Lexington, and Hebron, Pa., and New York, N. Y. Shirts, pajamas, and underwear. 274,349; Dec. 25. Class 39.

Len-May Laboratory. (See Bergstein, Leonard.)

Levin & Harris Shirt Co., Inc., New York, N. Y. Shirts. 243,766; Dec. 25. Class 39.

Liberty Overall Company, Birmingham, Ala. Overalls, and pants. 267,778; Dec. 25. Class 39.

Luyties Pharmacal Company, St. Louis, Mo. Dentifrice in tablet form. 273,637; Dec. 25. Class 6.

Madden, William T., doing business as Serv-U-Wel Markets, Zanesville, Ohio. Toilet paper or tissue. 274,836; Dec. 25. Class 37.

Magee, William P., East Machias, Me. Automobile polish. 274,660; Dec. 25. Class 16.

Mandleberg, J., & Co., Limited, Manchester, England. Coats. 269,968; Dec. 25. Class 39.

Manning, Paul, doing business as The Manning Company, West Springfield, Mass. Perfumes and deodorants. 273,110; Dec. 25. Class 6.

Mavis-Deal Hosiery Company, New York, N. Y. Hosiery. 274,785; Dec. 25. Class 39.

May Department Stores Company, New York, N. Y. Hosiery. 274,662; Dec. 25. Class 39.

Medina, J. A., Company, New York, N. Y. Green coffee. 268,297; Dec. 25. Class 46.

Meeks and Alt, Compton, Calif. Brassières. 274,352; Dec. 25. Class 39.

Midland Laboratories, Cedar Rapids, Iowa. Antacid medicines. 274,663; Dec. 25. Class 6.

Miller Brothers, Houston, Tex. Work clothing. 273,750; Dec. 25. Class 39.

Milwaukee Grains & Feed Company, Milwaukee, Wis. Horse and dairy feeds. 274,395; Dec. 25. Class 46.

Minick & Gowdy, New York, N. Y. Medicine for rheumatism. 274,664; Dec. 25. Class 6.

Morris, Harvey F., Rochester, N. Y. Magazines. 274,396; Dec. 25. Class 38.

Mulhens, Ferd., Inc., New York, N. Y. Soaps. 271,351; Dec. 25. Class 4.

Mutual Stores, Inc., Oakland, Calif. Canned evaporated milk, canned vegetables, butter, etc. 270,140; Dec. 25. Class 46.

Nakken Patents Corporation, New York, N. Y. Apparatus for recording and reproducing sound photographically. 275,546; Dec. 25. Class 26.

National Bellas Hess Co. Inc., New York, N. Y. Cotton piece goods. 268,798; Dec. 25. Class 42.

National Textile Dist. Corp., New York, N. Y. Athletic shirts. 272,342; Dec. 25. Class 39.

Newman, Harry L., doing business as Harry L. Newman Co., New York, N. Y. Hosiery, underwear, shirts, etc. 273,752; Dec. 25. Class 39.

New York Civil Service Employees Publishing Company, Inc., New York, N. Y. Newspaper. 274,667; Dec. 25. Class 38.

Niagara Sprayer Company, Middleport, N. Y. Parasiticides. 265,918; Dec. 25. Class 6.

Noma Electric Corporation, New York, N. Y. Decorative lighting fixtures. 274,609; Dec. 25. Class 21.

O'Connor, George T., Newark, N. J. Tooth paste, tooth powder, compacts, etc. 263,614; Dec. 25. Class 6.

Owens, H. F., doing business as H. F. Owens Company, Chicago, Ill. Preparation for colds, coughs, etc. 273,930; Dec. 25. Class 6.

P-B Superior Inc. (See Banks, Charles L.)

Parker Brothers Inc., Portland, Me., and Salem, Mass. Game played with cards. 274,570; Dec. 25. Class 22.

Pendergast, Daisy A., Los Angeles, Calif. Bread. 275,294; Dec. 25. Class 46.

Pennzoil Company, The, Oil City, Pa. Lubricating oils and greases. 274,015; Dec. 25. Class 15.

Peper Bros., Inc., New York, N. Y. Enamel paint. 274,278; Dec. 25. Class 16.

Pierce, F. O., Company, New York, N. Y. Paint enamel. 273,881; Dec. 25. Class 16.

# ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Poultry Tribune Company, Mount Morris and Chicago, Ill. Periodical. 275,406; Dec. 25. Class 38.
Premold Products Inc., West Springfield, Mass. Rubber-containing fibrous material. 274,279; Dec. 25. Class 1.
Prince Matchabelli Perfumery, New York, N. Y. Perfumes. 274,282; Dec. 25. Class 6.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor fuels, lubricating oils and greases, etc. 271,992; Dec. 25. Class 15.
Pure Oil Company, The, Chicago, Ill. Hydrocarbon motor-fuel oils, lubricating oils and greases, etc. 272,577; Dec. 25. Class 15.
Reed's, Dr., Vitalectone Company, Stockton, Calif. Apparatus for the application of electricity to the human body. 255,822; Dec. 25. Class 44.
Regal Doll Manufacturing Co. Inc., New York, N. Y. Dolls. 261,835; Dec. 25. Class 22.
Regal Shoe Company, Whitman and Boston, Mass. Boots and shoes. 242,212; Dec. 25. Class 39.
Reichardt Cocoa & Chocolate Co. Inc., doing business as Reichardt, New Brunswick, N. J. Candy. 269,367; Dec. 25. Class 46.
Reis, Robert, & Co., New York, N. Y. Underwear. 273,116; Dec. 25. Class 39.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Fruit preserves, vegetable fat, etc. 266,621; Dec. 25. Class 46.
Rothschild, Sol A., Co. Inc., Chicago, Ill. Leather gloves and fabric gloves. 274,404; Dec. 25. Class 39.
Sargeant Acnold Pharmaceutical Co. Inc., East Orange, N. J. Ointments. 272,673; Dec. 25. Class 6.
Schaldach, Marioca, Seattle, Wash. Newspaper section. 271,273; Dec. 25. Class 38.
Schulberg, F., & Son, New York, N. Y. Men's and boys' clothing. 270,726; Dec. 25. Class 39.
Scott, Lewis L., St. Louis, Mo. Exercising and massaging machines. 270,353; Dec. 25. Class 44.
Scottish Canadian Magnesite Company, Limited, Magnesite, Quebec, Canada. Refractory cement, mortar, and bricks. 266,218–19; Dec. 25. Class 12.
Scotts Limited, London, England. Caps, hats, and helmets. 271,627; Dec. 25. Class 39.
Seelig, R., & Hille, Dresden, Germany. Tea. 260,243; Dec. 25. Class 46.
Seligman, Martin, New York, N. Y. Coats, vests, pants, etc. 274,072; Dec. 25. Class 39.
Serv-U-Wel Markets. (See Madden, William J.)
Sigma Phi Sigma, Champaign, Ill. Fraternity pins, rings, and pendants, and badges. 268,706; Dec. 25. Class 28.
Sinclair Refining Company, New York, N. Y. Gasoline. 265,813; Dec. 25. Class 15.
Sjöström, Josef, Stockholm, Sweden. Soap, soft soap, soap powder, etc. 263,622; Dec. 25. Class 4.
Slack, Margaret L., Providence, R. I. Dressing or sauce. 274,576; Dec. 25. Class 46.
Société Anonyme M. Naef & Cie., Geneva, Switzerland. Artificial and synthetic perfumes and essential oils. 267,214; Dec. 25. Class 6.
Société Cadolle Frères, Paris, France. Corsets, belts, underwear, etc. 262,875; Dec. 25. Class 39.
Spicer and Company, Glendale, Calif. Analgesic synthetic chemical for the relief of pain. 274,406; Dec. 25. Class 6.
Splitdorf Radio Corporation, Newark, N. J. Radio receiving sets and parts thereof and loud speakers built into the sets. 274,077; Dec. 25. Class 21.
Spronck & Hamburger, Utrecht, Netherlands. Chemical and biological substance. 271,947–9; Dec. 25. Class 6.
Stannard, Andrew M., New York, N. Y. Compound for dentists' use. 265,173; Dec. 25. Class 6.
Stern-Imbrey Co., New York, N. Y. Dresses and frocks. 272,626; Dec. 25. Class 39.
Stover Manufacturing & Engine Co., Freeport, Ill. Mops and mopsticks. 274,081; Dec. 25. Class 20.
Sutter Packing Co., Mayfield, Calif. Canned fruits. 273,023; Dec. 25. Class 46.
Sutter Packing Co., Mayfield, Calif. Canned fruits. 273,026; Dec. 25. Class 46.
Sutter Packing Company, Mayfield, Calif. Canned fruits. 271,365; Dec. 25. Class 46.
Sylvania Products Company, Emporium, Pa. Incandescent electric lamps. 273,946; Dec. 25. Class 21.
Taylor, T., Limited, Bolton, England. Bedspreads. 273,271; Dec. 25. Class 42.
Theatre Guild Magazine, Inc., New York, N. Y. Magazine. 274,853; Dec. 25. Class 38.
Thomas, William R., assignor to Vegetable Products Corporation, Los Angeles, Calif. Bread, wafers. 264,394; Dec. 25. Class 46.
Thomas, William R., assignor to Vegetable Products Corporation, Los Angeles, Calif. Bread, wafers. 265,705; Dec. 25. Class 46.
Tiber Publishing Corporation, New York, N. Y. Periodical. 275,194; Dec. 25. Class 38.
Tompkins, Bernard, New York, N. Y. Phonograph records. 271,413; Dec. 25. Class 36.
Trimble Hat Company, The, Orange, N. J. Men's hats. 275,139; Dec. 25. Class 39.
U. S. Hame Company, Buffalo, N. Y. Hames. 254,018; Dec. 25. Class 3.
Ullman-Jessel, Inc., New York, N. Y. Clothing. 274,896; Dec. 25. Class 39.
Unexcelled Manufacturing Company, New York, N. Y. Fireworks. 274,681; Dec. 25. Class 9.
Universal Electric Log Co. (See Gross, Harold W.)
Val Bros., doing business as California Medicinal Wine Co., Los Angeles, Calif. Wine to which salt has been added, used as a seasoning and flavoring. 266,157; Dec. 25. Class 46.
Varney, Walter T., San Francisco, Calif. Letterheads, mailing and correspondence envelopes, etc. 273,949; Dec. 25. Class 37.
Vaughan-Hinckley Company, The, Dallas, Tex. Dresses. 274,579; Dec. 25. Class 39.
Vegetable Products Corporation. (See Thomas, William R., assignor.)
Veldown Company, Inc., New York, N. Y. Catamenial bandages. 238,737; Dec. 25. Class 44.
Victor X-Ray Corporation, Chicago, Ill. Mixture of barium sulphate with cereal. 273,676; Dec. 25. Class 6.
Viener, Sam, New York, N. Y. Hosiery. 274,300; Dec. 25. Class 39.
Wager & Hirsch, Inc., New York, N. Y. Silk piece goods. 275,374; Dec. 25. Class 42.
Watkins, J. R., Company, The, Winona, Minn. Furniture polishes. 274,244; Dec. 25. Class 16.
Waxahachie Cotton Mills Co., Dallas and Waxahachie, Tex. Cotton duck. 263,058; Dec. 25. Class 42.
West Virginia Rail Company, The, Huntington, W. Va. Steel and metal railroad ties and rails, railroad frogs, etc. 272,839; Dec. 25. Class 14.
Williams, Oscar D., New York, N. Y. Periodical. 267,817; Dec. 25. Class 38.
Wilson-Western Sporting Goods Company, Chicago, Ill. Golf clubs. 257,210; Dec. 25. Class 22.
Wing's Knitting Mills, Inc., New York, N. Y. Caps. 272,842; Dec. 25. Class 39.

# CLASSIFIED LIST OF TRADE-MARKS REGISTERED.

## CLASS 1.

Coal. Clover Splint Coal Company. 251,028–30; Dec. 25; Serial Nos. 268,351–3; published Aug. 28, 1928.
Leather and tanned hides, Sole and upper. B. Frank & Sons. 72,423; renewed Jan. 26, 1929.

## CLASS 3.

Horseshoe calks. Williams Drop Forging Company. 70,823; renewed Oct. 6, 1928.

## CLASS 4.

Soap, Hand and general-purpose. I. P. Huff. 251,108; Dec. 25; Serial No. 256,321; published Dec. 13, 1927.

## CLASS 6.

Antiseptic, Gastrointestinal. Burrough Brothers Manufacturing Company. 251,082; Dec. 25; Serial No. 267,529; published Sept. 25, 1928.
Chemical and pharmaceutical preparations. Chemische Fabrik von Heyden, Gesellschaft mit beschränkter Haftung. 32,451–2; renewed Jan. 31, 1929.
Chemical preparation. Haberland Manufacturing Company. 251,024–5; Dec. 25; Serial Nos. 268,494–5; published Oct. 9, 1928.
Cleanser and tissue builder, Skin. B. M. Schulenberg. 251,042; Dec. 25; Serial No. 270,802; published Oct. 9, 1928.
Creams, nail polish, and remover, Skin. Acme Laboratories. 251,109; Dec. 25; Serial No. 255,621; published Aug. 28, 1928.
Disinfectant. Pearson's Antiseptic Co. Limited. 73,478; renewed Apr. 20, 1929.
Dye aids, Chemical. H. Th. Bohme A. G. 251,084; Dec. 25; Serial No. 266,786; published Oct. 9, 1928.
Dyes and dyestuffs, chemical products, etc. Chemische Fabrik Stockhausen & Cie. 251,095; Dec. 25; Serial No. 263,459; published Oct. 9, 1928.
Emulsion of liquid petrolatum with agar for medicinal use. Parke, Davis & Company. 251,074; Dec. 25; Serial No. 269,252; published Sept. 25, 1928.
Epsom salt. Drackett Chemical Company. 251,039; Dec. 25; Serial No. 270,960; published Oct. 9, 1928.
Herbs or tea, for stomach troubles. L. J. Rosenberg. 251,126; Dec. 25; Serial No. 268,632; published Sept. 11, 1928.
Insecticide and vermin destroyer. S. Schwarz. 73,302; renewed Apr. 6, 1929.
Insecticides. Clark Poultry Research Laboratories, Inc. 251,094; Dec. 25; Serial No. 263,640; published Sept. 25, 1928.
Iron cacodylate, Colloidal. Cutter Laboratory. 251,040; Dec. 25; Serial No. 270,056; published Oct. 9, 1928.
Lime and ammonia, Chlorinated. George W. Simmons Corporation. 251,027; Dec. 25; Serial No. 268,397; published Sept. 11, 1928.
Liniment. F. Ad. Richter & Co. of New York. 251,101; Dec. 25; Serial No. 268,308; published Sept. 25, 1928.
Liniments. A. Nazaroff. 251,069; Dec. 25; Serial No. 269,598; published Oct. 9, 1928.
Lotions, creams, and powders. P. P. Mülhens. 251,116; Dec. 25; Serial No. 242,098; published Oct. 9, 1928.
Medical compounds. Weaver-Markel Chemical Company. 32,136; renewed Nov. 8, 1928.
Medicated lozenges for coughs. Henry Thayer & Company. 71,230; renewed Nov. 10, 1928.
Medicinal compounds and articles. E. Wunderlich. 32,318; renewed Jan. 3, 1929.
Medicine. C. S. Throgmorton. 251,080; Dec. 25; Serial No. 269,161; published Sept. 25, 1928.
Medicine, Cough. L. W. Stall. 251,066; Dec. 25; Serial No. 269,696; published Oct. 9, 1928.
Ointment and salve. Nev Chemical Co. 251,128; Dec. 25; Serial No. 268,556; published Sept. 25, 1928.
Olive oil, essential oils, etc. George Lueders & Co. 31,831; renewed Aug. 2, 1928.
Perfumes, toilet cream, etc. Frederick Stearns & Co. 73,618; renewed May 4, 1929.
Pharmaceutical preparation. A.-S. Gea (Farmaceutisk-Kemisk Fabrik. 251,070; Dec. 25; Serial No. 269,566; published Sept. 25, 1928.
Pharmaceutical preparation for dandruff and loss of hair. M. Bakst. 251,089; Dec. 25; Serial No. 264,413; published Sept. 25, 1928.
Pills for ills related to the liver and digestive and eliminative tracts. S. H. Parkinson. 251,107; Dec. 25; Serial No. 257,250; published May 8, 1928.
Powder, Face. Keystone Laboratories. 251,110; Dec. 25; Serial No. 254,918; published Oct. 9, 1928.
Powder, talcum powder, rouges, etc., Face. Milton Cahn Company. 251,103; Dec. 25; Serial No. 260,161; published Oct. 9, 1928.
Preparation for the treatment of achylia gastrica, etc. Pitman-Moore Company. 251,038; Dec. 25; Serial No. 271,081; published Oct. 9, 1928.
Preparation for the treatment of rheumatism, etc. Omega Chemical Company. 251,091–2; Dec. 25; Serial Nos. 263,664–5; published Oct. 9, 1928.
Preparation for treating roup in chickens. E. M. Long. 251,096; Dec. 25; Serial No. 263,220; published Sept. 25, 1928.
Preparation for use in growing hair. L. S. Cahill. 251,023; Dec. 25, Serial No. 268,530; published Sept. 25, 1928.
Preparation for use in the treatment of dyspepsia. A. E. Smith. 251,078; Dec. 25; Serial No. 269,209; published Sept. 25, 1928.
Preparation used as a healing antiseptic for skin irritations, etc., External. C. V. Collier. 251,088; Dec. 25; Serial No. 266,126; published Sept. 25, 1928.
Preparations of hydrocarbon containing suplhur. Ichthyol Gesellschaft Cordes, Hermanni & Co. 72,605; renewed Feb. 9, 1929.
Remedies. A. Person. 72,472; renewed Jan. 26, 1929.
Resins, Synthetic or chemically-prepared. Resinous Products & Chemical Company. 251,068; Dec. 25; Serial No. 269,622; published Oct. 2, 1928.
Roots, herbs, and barks, Mixture of dried and coarsely-ground. R. Trillo. 251,077; Dec. 25; Serial No. 269,211; published Oct. 9, 1928.
Serum for treating syphilis. Francisco Jauregui and Luis Lanceiotti. 251,106; Dec. 25; Serial No. 258,028; published Sept. 25, 1928.
Soda ash, bicarbonate of soda, etc. Michigan Alkali Company. 32,438; renewed Jan. 31, 1929.
Solvent clarifier. J. B. Ford Company. 251,060; Dec. 25; Serial No. 268,537; published Oct. 9, 1928.
Specific for certain diseases. H. Matusow. 73,474; renewed Apr. 20, 1929.
Stomaid. C. A. Herron. 251,079; Dec. 25; Serial No. 269,189; published Oct. 9, 1928.
Treatment, Hot-oil scalp. J. Schanzenbach & Co. 251,037; Dec. 25; Serial No. 271,088; published Oct. 9, 1928.

## CLASS 11.

Ink, Printing. Ault & Wiborg Co. 73,405; renewed Apr. 20, 1929.
Ink, Writing. L. E. Waterman Company. 72,285–6; renewed Jan. 12, 1929.

## CLASS 15.

Greases and oil, Lubricating. New York Lubricating Oil Company. 72,380; renewed Jan. 19, 1929.

## CLASS 16.

Calcimine. Muralo Company. 73,198; renewed Mar. 30, 1929.
Varnishes, japans, colors and filling up. Nobles & Hoare. 32,590; renewed Mar. 14, 1929.

## CLASS 17.

Cigars. Garcia & Vega. 73,291; renewed Apr. 6, 1929.

## CLASS 25.

Locks. E. T. Fraim Lock Company. 73,658; renewed May 4, 1929.

## CLASS 36.

Phonographs and phonograph records. Grigsby-Grunow Company. 251,122; Dec. 25; Serial No. 269,114; published Sept. 18, 1928.

## CLASS 37.

Pens, Writing. Turner and Harrison Pen Manufacturing Company. 73,145; renewed Mar. 16, 1929.

## CLASS 39.

Apparel, Women's wearing. Moses Blumberg & Sons Inc. 251,031; Dec. 25; Serial No. 268,267; published Oct. 9, 1928.
Aprons, Women's. Solomon Mfg. Co. 251,073; Dec. 25; Serial No. 269,488; published Sept. 25, 1928.
Buntings and sacques, Children's and infants'. Ideal Bath Robe Co. Inc. 251,115; Dec. 25; Serial No. 243,704; published Oct. 9, 1928.
Caps, ties, corsets, shoes, etc. S. Blechman & Sons, Inc. 251,113; Dec. 25; Serial No. 247,248; published Aug. 23, 1927.
Cloaks, suits, coats, etc. S. Goldberg. 251,114; Dec. 25; Serial No. 243,756; published Oct. 2, 1928.
Cloth linings for fur coats. Henbert Silk Co. 251,065; Dec. 25; Serial No. 269,756; published Oct. 9, 1928.
Clothing. Zion's Co-Operative Mercantile Institution. 251,118; Dec. 25; Serial No. 241,365; published Sept. 25, 1928.
Clothing, Men's and boys' outer. Kresge Department Store Corporation. 251,061; Dec. 25; Serial No. 269,964; published Oct. 9, 1928.
Coats. Hiller Bros. and Hiller. 251,075; Dec. 25; Serial No. 269,237; published Sept. 25, 1928.
Coats. Purlian Clothing Company. 251,046; Dec. 25; Serial No. 270,505; published Oct. 9, 1928.
Coats, vests, trousers, etc. Wiener & Katz. 251,052; Dec. 25; Serial No. 270,362; published Oct. 9, 1928.
Drawers, trousers, shirts, etc., Men's. I. & R. Morley. 251,090; Dec. 25; Serial No. 264,041; published Sept. 25, 1928.
Dresses. Arthur Cohen Dress Corporation. 251,054; Dec. 25; Serial No. 270,280; published Oct. 9, 1928.
Dresses. B. F. Schlesinger & Sons, Inc. 251,085; Dec. 25; Serial No. 266,484; published Oct. 9, 1928.
Dresses and coats. B. Rothblum. 251,059; Dec. 25; Serial No. 269,984; published Oct. 2, 1928.
Garments, Foundation. L. T. Jennings Company. 251,093; Dec. 25; Serial No. 263,654; published Sept. 18, 1928.
Garments, Sleeping. J. T. Johnson, jr. 251,071; Dec. 25; Serial No. 269,528; published Oct. 2, 1928.
Gloves. Fownes Brothers & Co. 32,121; renewed Nov. 8, 1928.
Gloves. William Hengerer Company. 251,117; Dec. 25; Serial No. 242,004; published Sept. 25, 1928.
Hat bodies, Ladies' felt. Tuxedo Hat Body Corporation. 251,081; Dec. 25; Serial No. 267,617; published Aug. 21, 1928.
Hosiery. C. F. Berg. 251,057; Dec. 25; Serial No. 270,228; published Oct. 9, 1928.
Hosiery. Berkshire Knitting Mills. 251,098; Dec. 25; Serial No. 262,148; published Aug. 21, 1928.
Hosiery. Gotham Silk Hosiery Co. Inc. 251,119; Dec. 25; Serial No. 239,579; published Sept. 25, 1928.
Hosiery. Rufus W. Scott Company. 251,102; Dec. 25; Serial No. 260,756; published Sept. 25, 1928.
Hosiery. William T. Tonner, Inc. 251,112; Dec. 25; Serial No. 249,823; published Feb. 21, 1928.
Hosiery and knit and woven underwear. Strutwear Knitting Company. 251,032–3; Dec. 25; Serial Nos. 268,249–50; published Oct. 9, 1928.
Hosiery, Ladies'. New Haven Silk Hosiery Co. 251,104; Dec. 25; Serial No. 259,817; published Oct. 2, 1928.
Mufflers and silk neckties, Silk. Guest Neckwear Company. 251,111; Dec. 25; Serial No. 254,036; published Oct. 9, 1928.
Neckties and mufflers, Men's. M. Gelles. 251,076; Dec. 25; Serial No. 269,233; published Oct. 2, 1928.
Neckwear and mufflers, neckties, and collars. M. & H. Block Co. 251,127; Dec. 25; Serial No. 268,672; published Oct. 9, 1928.
Overalls, Men's. Universal Overalls Company. 251,053; Dec. 25; Serial No. 270,359; published Oct. 9, 1928.
Overalls, shirts, pants, jumpers, and unionalls. Bayly-Underhill Mfg. Co. 251,121; Dec. 25; Serial No. 224,893; published Mar. 2, 1926.
Raincoats. New York Mackintosh Clothing Company. 251,086; Dec. 25; Serial No. 266,474; published Sept. 25, 1928.
Robes, Bath. Aero Robe Co. 251,051; Dec. 25; Serial No. 270,363; published Oct. 2, 1928.
Shirts. White Swan Shirt Company. 251,123; Dec. 25; Serial No. 269,010; published Oct. 9, 1928.
Shirts, coats, suits, and dresses. L. Feibleman & Co. 251,105; Dec. 25; Serial No. 259,109; published Oct. 9, 1928.
Shirts, Dress and flannel. Berne Manufacturing Company. 251,044; Dec. 25; Serial No. 270,624; published Sept. 25, 1928.

Shirts, overalls, trousers, hosiery, etc. E. W. King Company. 251,056; Dec. 25; Serial No. 270,250; published Oct. 9, 1928.
Shirts, Work. A. Stone. 251,043; Dec. 25; Serial No. 270 730; published Oct. 9, 1928.
Shirts, work shirts, collars, etc., Boys' dress. Higginbotham-Bailey-Logan Company. 251,026; Dec. 25; Serial No. 268,440; published Sept. 25, 1928.
Shoes, Leather. J. E. Adams. 71,933; renewed Dec. 22, 1928.
Suits, Children's outer. J. Tartikoff & Sons. 251,064; Dec. 25; Serial No. 269,869; published Oct. 2, 1928.
Suits for boys, One-piece overall union. Boy-Togs Manufacturing Company. 251,062; Dec. 25; Serial No. 269,937; published Oct. 9, 1928.
Suits, Men's. Hickey-Freeman Co. 251,048; Dec. 25; Serial No. 270,426; published Sept. 25, 1928.
Suits, topcoats, and overcoats, Men's. Hickey-Freeman Co. 251,049; Dec. 25; Serial No. 270,425; published Oct. 9, 1928.
Sweaters and bathing suits. Everlastik Knitting Mills, Inc. 251,099; Dec. 25; Serial No. 261,746; published Oct. 2, 1928.
Underwear. Cheltenham Knitting Co. 251,072; Dec. 25; Serial o. 269,509; published Sept. 25, 1928.
Underwear and pajamas, Men's. Phillips-Jones Corporation. 251,050; Dec. 25; Serial No. 270,390; published Oct. 9, 1928.
Underwear and undergarments, Children's and infants'. Earnshaw Knitting Company. 251,047; Dec. 25; Serial No. 270,472; published Sept. 25, 1928.
Underwear, Knit. Anthony Brothers, Incorporated. 251,063; Dec. 25; Serial No. 269,934; published Oct. 9, 1928.
Underwear, Knitted. Little Falls Manufacturing Co. 73,662; renewed May 11, 1929.
Underwear, Men's. Carmi Manufacturing Company. 251,087; Dec. 25; Serial No. 266,354; published Oct. 9, 1928.

CLASS 40.

Labels, Woven. A. L. Kahn. 73,551; renewed Apr. 27, 1929.
Rubber goods. Hannoversche Gummi-Kamm-Compagnie Actien-Gesellschaft. 71,200; renewed Nov. 10, 1928.

CLASS 42.

Fabrics, Colored woven shirting. Massachusetts Cotton Mills. 72,490; renewed Jan. 26, 1929.
Knitted fabrics. Twentieth Century Rayon Textiles, Inc. 251,041; Dec. 25; Serial No. 270,899; published Oct. 9, 1928.

CLASS 44.

Cotton, Absorbent. United Drug Company. 73,654; renewed May 4, 1929.

CLASS 46.

Bread. Fischer Baking Co. 251,120; Dec. 25; Serial No. 238,014; published Apr. 24, 1928.
Butter. Consumers Butter Co. 251,067; Dec. 25; Serial No. 269,637; published Oct. 9, 1928.
Canned apricots, pears, and peaches. Landauer & Co. 251 083; Dec. 25; Serial No. 266,998; published Sept. 25, 1928.
Canned peas. Waukesha Canning Co. 72,123–4; renewed Jan. 5, 1929.
Canned peas and canned corn. Waukesha Canning Co. 72,693; renewed Feb. 9, 1929.
Canned peas, beans, and corn. Waukesha Canning Co. 72,694; renewed Feb. 9, 1929.
Canned peas, corn, and tomatoes. Waukesha Canning Co. 72,695; renewed Feb. 9, 1929.
Canned peas, corn, and tomatoes. Waukesha Canning Co. 73,121; renewed Mar. 16, 1929.
Cheese. Daniel A. Connell Co. 251,100; Dec. 25; Serial No. 261,422; published June 5, 1928.
Cheese. Gerber & Co. Inc. 251,045; Dec. 25; Serial No. 270,585; published Oct. 9, 1928.
Doughnut mixture. Doughnut Machine Corporation. 251,125; Dec. 25; Serial No. 268,854; published Oct. 9, 1928.
Doughnuts. Davis Standard Bread Co. 251 035; Dec. 25; Serial No. 271,685; published Oct. 9, 1928.
Feed, barley, chops, etc., Mixed. Pittsburgh Elevator Co. 251,124; Dec. 25; Serial No. 268,936; published Oct. 9, 1928.
Feed, Pig and hog. United-Bi-Products Company. 251,097; Dec. 25; Serial No. 263,187; published Oct. 9, 1928.
Feeds, Poultry, dairy, and stock. McMillen Co. 251,034; Dec. 25; Serial No. 271,703; published Oct. 9 1928.
Flour, Wheat. Mennel Milling Company. 251,036; Dec. 25; Serial No. 271,557; published Oct. 9, 1928.
Flour, Wheat. Washburn Crosby Company. 72,916; renewed Mar. 2, 1929.
Flours. Page Milling Co. 251,058; Dec. 25; Serial No. 270,198; published Oct. 9, 1928.
Foods. Peck, Frean & Co. 73,181; renewed Mar. 23, 1929.
Ice-cream cones, pretzels, pie, etc. American Cone & Pretzel Company. 251,055; Dec. 25; Serial No. 270,272; published Oct. 9 1928.
Milk, Condensed. H. Nestlé. 32,813; renewed May 2, 1929.
Sausage. Kretschmar Sausage Manufacturing Company. 73,240; renewed Apr. 6, 1929.

CLASS 48.

Beer. M. B. Foster & Sons, Limited. 73,139; renewed Mar. 16, 1929.

CLASS 49.

Liqueur called Benedictine. Société Anonyme de la Distillerie de la Liqueur Bénédictine de l'Abbaye de Fécamp. 71,552–4; renewed Dec. 1, 1928.

# ALPHABETICAL LIST OF LABELS.

Bedford Tailored Trousers. For Men's Dress Pants. Bedford Johnson Company. 35,125; Dec. 25.
Blue Ribbon Bread. For Bread. Central Waxed Paper Company. 35,128; Dec. 25.
Bull-Meat-Brand-Flour. For Flour. B. Heller & Company. 35,138; Dec. 25.
Directions. For Canned Corn. Milford Canning Co. 35,144; Dec. 25.
Eat More Honey. For Comb Honey. G. B. Lewis Company. 35,142; Dec. 25.
8-Hour Emanation—Ozo Mist—Directions. For Inhalant for Treating Nasal and Bronchial Disorders. Adson Chemical Company. 35,124; Dec. 25.
Engelhard's Breakfast Package Coffee. For Coffee. A. Engelhard & Sons Co. 35,134; Dec. 25.
Everyday. For Canned Peas. Friday Canning Corporation. 35,136; Dec. 25.
Family Style. For Tuna for Salad. Cohn-Hopkins, Inc. 35,130; Dec. 25.
Gold Shield. For Coffee. Schwabacher Bros. & Co. Inc. 35,148; Dec. 25.
Harts Ezapain Best for Pain. For a Medicinal Preparation in Tablet Form. Hart Drug Company. 35,137; Dec. 25.
Homepack. For Canned Peaches. E. Clemens Horst Co. 35,129; Dec. 25.
Malt Lax. For Laxative Cough and Cold Medicine. W. A. Liesch. 35,143; Dec. 25.
Miss Saylor's Unusual Chocolates. For Chocolates. Miss Saylor's Chocolates Inc. 35,147; Dec. 25.
Niagara Chewing Gum. For Chewing Gum. Ford Vending Machine Corporation. 35,135; Dec. 25.
Oh Boy. For Poultry Feeds. Rudy-Patrick Seed Company. 35,146; Dec. 25.
$1000.00 Guaranteed Moth Killer. For Preparation in Liquid Form for Killing Moths. B. Heller & Company. 35,139; Dec. 25.
Poweroyl. For Combustion-Chamber-Lubricating Oil. N. Benandie. 35,126; Dec. 25.
Prime-Cut Brand Sliced Smoked Salmon. For Sliced Smoked Salmon. Storfold & Grondahl Pkg. Co. 35,150; Dec. 25.
Red E to Cook. For Fish Fillets. Collins-Lee Co. 35,131; Dec. 25.
School Boy Peanut Butter. For Peanut Butter. Rogers Company. 35,145; Dec. 25.
Skookum Syrup. For Table Syrup. D. B. Scully Syrup Co. 35,149; Dec. 25.
Sprayit. For Insecticide. Keystone Chemical Co. 35,141; Dec. 25.
Ten Burgess Snaplite Batteries. For Flashlight Batteries. Burgess Battery Company. 35,127; Dec. 25.
Try One. For Fresh Apples. Earl Fruit Company. 35,133; Dec. 25.
Try One. For Fresh Pears. Earl Fruit Company. 35,132; Dec. 25.
White Star. For Eggs. Weinberg & Goldsmith. 35,151; Dec. 25.
Zanzibar Brand Royal Zest Poultry Seasoning. For Poultry Seasoning. B. Heller & Company. 35,140; Dec. 25.

# ALPHABETICAL LIST OF PRINTS.

A New Appetizer for You. For Dental Cream. E. R. Squibb & Sons. 11,424; Dec. 25.
A Night Club for Tired Smokers. For Dental Cream. E. R. Squibb & Sons. 11,428; Dec. 25.
A Smoking Forecast. For Dental Cream. E. R. Squibb & Sons. 11,423; Dec. 25.
Cadet Chevron. For Hosiery. Cadet Knitting Company. 11,404; Dec. 25.
Cadet Cubist. For Hosiery. Cadet Knitting Company. 11,405; Dec. 25.
Cleansol the Perfected Radiator Cleanser. For Preparation Used as a Cleanser of Automobile Radiators and Cooling Systems. Summit Oil Corporation. 11,429; Dec. 25.
Engineering Plus. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,406; Dec. 25.
First and Last. For Dental Cream. E. R. Squibb & Sons. 11,422; Dec. 25.
Foot Comfort for the Entire Family. For Slippers. Lind Shoe & Slipper Company, Inc. 11,412; Dec. 25.
Get the News. For Dental Cream. E. R. Squibb & Sons. 11,419; Dec. 25.
Give Your Child Vacation Sunshine All Year Round. For Glass. Vitaglass Corporation. 11,433; Dec. 25.
Is Your Child Trying to Grow up on a Half-Ration of Sunshine? For Glass. Vitaglass Corporation. 11,435; Dec. 25.
It Cannot be Stated too Emphatically—. For Dental Cream. E. R. Squibb & Sons. 11,417; Dec. 25.
It may seem Strange but Adults are beginning to take Castor Oil. For Castor Oil. E. R. Squibb & Sons. 11,427; Dec. 25.
Just Rub on Vicks Vapo Rub. For Remedies for the Relief of Colds. Vick Chemical Company. 11,430; Dec. 25.
Keep that Morning Sparkle. Dental Cream. E. R. Squibb & Sons. 11,420; Dec. 25.
Millions of C G Bumpers now in Use. For Vehicle Bumpers. C. G. Spring & Bumper Company. 11,407; Dec. 25.
Modern Hospitals make Use of Vita Glass in rebuilding the Health of their Patients. For Glass. Vitaglass Corporation. 11,431; Dec. 25.
Neglect of Baby Teeth may easily mar your Children's Future. For Dental Cream and Milk of Magnesia. E. R. Squibb & Sons. 11,426; Dec. 25.
Rat Killing made Easy. For Rat Killer. W. C. McKee. 11,413; Dec. 25.
School Days Shorten His Hours Outdoors. For Glass. Vitaglass Corporation. 11,434; Dec. 25.
6 Minutes a Day for the Teeth . . . Is that too much when Health and Beauty are at Stake? For Dental Cream. E. R. Squibb & Sons. 11,416; Dec. 25.
So Many Women. For Dental Cream and Milk of Magnesia. E. R. Squibb & Sons. 11,421; Dec. 25.
So Successful with Pupils that our Teachers want to repeat it. For Wheat Breakfast Food. Cream of Wheat Co. 11,409; Dec. 25.
Spring Colors 1929. For Straw Braids and Body Hats. R. H. Comey Companies Consolidated. 11,408; Dec. 25.
Take Your First Bite. For Mincemeat. H. J. Heinz Company. 11,411; Dec. 25.
That First Smoke in the Morning. For Dental Cream. E. R. Squibb & Sons. 11,425; Dec. 25.
The Art of Creative Beauty. For Cleansing Creams, Vanishing Creams, Cold Creams, Hand Creams, Weather Creams, Tissue Creams, Astringent Creams, Lip Sticks, Single Vanities, Face Powders, Skin Fresheners, Astringent Lotions, and Complexion Dressings. Barbara Gould, Ltd. 11,410; Dec. 25.
The Art Needlework Fair. For Needlework. Molter-Reinhard Co., Inc. 11,414; Dec. 25.
The Cleansing of the Tropics. For Cod-Liver Oil, Epsom Salt, Milk of Magnesia, Boric Acid, Bicarbonate of Soda, and Castor Oil. E. R. Squibb & Sons. 11,415; Dec. 25.
The Gift of Gifts—Exquisite Beauty. For Venetian Toilet Preparations. Elizabeth Arden, Inc. 11,402; Dec. 25.
There is a Gift that Kings and Lovers and Wise Men have given since Time began. For Jewelry. Black, Starr & Frost. 11,403; Dec. 25.
To the Wise Smoker. For Dental Cream. E. R. Squibb & Sons. 11,428; Dec. 25.
Your Sunlit Rooms are Sunless. For Glass. Vitaglass Corporation. 11,432; Dec. 25.


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# ALPHABETICAL LIST OF PATENTEES

TO WHOM

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). Includes patents, reissues, and designs.

Acoustic Products Company. (See Hutchison, Miller R., assignor.)

Agthe, Carl A., Zurich, assignor to the firm J. R. Geigy S. A., Basel, Switzerland. Manufacture of disperse systems. 1,696,374; Dec. 25.

Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Transmission gearing. 1,696,178; Dec. 25.

Ahlm, Charles E. F., assignor to Automotive Patent Holding Company, Cleveland, Ohio. Gear and clutch mechanism. 1,696,179; Dec. 25.

Ahlqvist, Harald, Rye, N. Y. Treating filter liquor. 1,696,224; Dec. 25.

Air Reduction Company. (See Van Nuys, Claude C., assignor.)

Aktiengesellschaft Brown, Boveri & Cie. (See Brown, Eric, assignor.)

Aldrich, Carl G., Medford, Mass. Making leather cases. 1,696,788; Dec. 25.

Aldrich, Lester K., Sidney, Ohio. Convertible single or double rotary feeder. 1,696,705; Dec. 25.

Alemite Manufacturing Corporation. (See Manzel, Charles W., assignor.)

Allen, Albert B., Santa Monica, Calif. Fastener. 1,696,467; Dec. 25.

Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Seeding implement. 1,696,562; Dec. 25.

Allen, S. L., & Co. (See Allen, Charles J., assignor.)

Alexander, Samuel, New York, N. Y. Scraper. 1,696,561; Dec. 25.

Alexander, William L. (See Haynes, H. S., and Alexander.)

Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)

Alschuler, Ernest, St. Louis, Mo., assignor of one-half to National Carbon Company, Inc., and one-half to H. Hyman, New York, N. Y. Battery hand lamp. 1,696,513; Dec. 25.

American Brake Materials Corporation. (See Thompson, James S., assignor.)

American Cable Company. (See Scott, Rumsey W., assignor.)

American Chain Company. (See Reyburn, John R., assignor.)

American Dairy Supply Company. (See Norwood, Harry G., assignor.)

American Flyer Manufacturing Company. (See Cuff, James E., assignor.)

American Fork & Hoe Company, The. (See Keough, Robert E., assignor.)

American Logging Tool Co. (See Latta, William, assignor.)

American Magnesium Corporation. (See Wood, Robert T., assignor.)

American Motor Body Corporation, The. (See Hansen, C. T., and Bell, assignors.)

American Patents Development Corporation. (See Slate, Thomas B., assignor.)

American Pulverizer Company. (See Teipel, Joseph, assignor.)

American Rolling Mill Company, The. (See Tytus, John B., assignor.)

American Sheet and Tin Plate Company. (See McArthur, Arthur R., assignor.)

American Telephone and Telegraph Company. (See Roberts, Leland C., assignor.)

Anchor Cap and Closure Corporation. (See Podel, Abraham, assignor.)

Anchor Cap & Closure Corporation. (See Scofield, Edgar, assignor.)

Andersen, Lauritz W., Waterbury, Conn. Clinch collar for shades. 1,696,875; Dec. 25.

Anderson, Clarence M., Oklahoma City, Okla. Prescription-filing cabinet and the like. 1,696,375; Dec. 25.

Andux y Perez, Pedro C., Habana, Cuba. Automatic radio telegraphic transmitter. 1,696,779; Dec. 25.

Anson, Edward D., Willamette, Oreg. Flower-vase holder. Des. 77,280; Dec. 25.

Anthony, David S., San Antonio, Tex. Burr for gristmills. 1,696,514; Dec. 25.

Archer, Capelle H., Tampa, Fla. Wheel-aligning gauge. 1,696,290; Dec. 25.

Arcus, James S., and R. E. Beaubien, Chicago, Ill.; said Beaubien assignor to said Arcus. Ticket-issuing machine. 1,696,180; Dec. 25.

Armstrong, Arthur N., assignor of one-half to H. J. Sommers, Norwich, N. Y. Striker attachment for animal traps. Re17,174; Dec. 25.

Ashley, Charles H., and L. H. Philleo, Los Angeles, Calif. Towel holding and dispensing cabinet. 1,696,184; Dec. 25.

Athon, Walter C., Lavoye, Wyo. Toothbrush holder. 1,696,706; Dec. 25.

Atkinson, Jerome T., Bayside, N. Y. Stabilizer for bed-springs. 1,696,291; Dec. 25.

Aulson, Philip G., Salem, Mass. Frame for leather-spraying devices. 1,696,185; Dec. 25.

Automotive Patent Holding Company. (See Ahlm, Charles E. F., assignor.)

Ayars, Charles H., Salem, N. J. Can-filling machine. 1,696,376; Dec. 25.

Babcock & Wilcox Company, The. (See Innes, William, assignor.)

Bacon, Charles C., assignor to Ross Tacony Crucible Company, Philadelphia, Pa. Ladle stopper. 1,696,876; Dec. 25.

Bailey, Edwin W. M., Amesbury, Mass. Sliding-window-glass support. 1,696,588; Dec. 25.

Bailey, Edwin W. M., Amesbury, Mass. Window-glass channel. 1,696,589; Dec. 25.

Baker, William H., Montreal, Quebec, Canada. Combined gramophone and motion-picture apparatus. 1,696,831; Dec. 25.

Ballou, Virgil, Des Moines, Iowa. Furnace. 1,696,538; Dec. 25.

Ballowe, Leigh M., assignor to T. G. Smith, Dallas, Tex. Fastening and releasing means for document receptacles. 1,696,181; Dec. 25.

Bandur, Adolph F., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Conductor for the transmission of electrical energy and producing the same. 1,696,262; Dec. 25.

Bane, Ferman L., Cincinnati, Ohio. Combined measuring and drafting instrument. 1,696,832; Dec. 25.

Barber Asphalt Company, The. (See Barnes, Eugene L., assignor.)

Barden, Herbert W. (See Settles, Simon G., assignor.)

Barennes, Robert, Bordeaux, France. Composing apparatus for type-setting machines. 1,696,515; Dec. 25.

Barnard, Davis, Apple Valley, Calif. Pump plunger. 1,696,563; Dec. 25.

Barnes, Eugene L., Watertown, N. Y., assignor to The Barber Asphalt Company, Philadelphia, Pa. Compressor. 1,696,564; Dec. 25.

Barney, Edwin E., New Rochelle, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting machine. 1,696,789; Dec. 25.

Barney, William R., assignor to W. C. Norris, Tulsa, Okla. Pumping jack. 1,696,182; Dec. 25.

Bartlett-Collins Company. (See Bartlett, Edward E., assignor.)

Bartlett, Edward E., assignor to Bartlett-Collins Company, Sapulpa, Okla. Tumbler. Des. 77,281; Dec. 25.

Bassett, Gerald L., assignor to The Conklin Pen Company, Toledo, Ohio. Clip for pencils and the like. 1,696,183; Dec. 25.

Batchelder, Charles H., North Attleboro, Mass. Clasp for bracelets or the like. 1,696,292; Dec. 25.

Bates Expanded Steel Truss Co. (See Bates, Walter A., signor.)

Bates, Walter A., assignor to Bates Expanded Steel Truss Co., Chicago, Ill. Rolled truss metal shape and producing same. 1,696,833; Dec. 25.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 77,282; Dec. 25.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 77,283; Dec. 25.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 77,284; Dec. 25.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 77,285; Dec. 25.

Bauer, Carl, assignor to Doetsch & Bauer Company, Chicago, Ill. Settee frame or similar article. Des. 77,286; Dec. 25.

Baum, Isaac A., Chicago, Ill. Metal trim. 1,696,749; Dec. 25.

Beaubien, Robert E. (See Arcus, J. S., and Beaubien.)

Becker, Georg F., Bremen, Germany. Connecter for incandescent lamps. 1,696,603; Dec. 25.

Bell, Alfred B. (See Hansen, C. T., and Bell.)

Bell, George W., assignor to Messrs. Getty and Scott Limited, Galt, Ontario, Canada. Spike base for athletic shoes. 1,696,619; Dec. 25.

Bell Telephone Laboratories, Incorporated. (See Buckley, Oliver E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Dunham, Bert G., assignor.)

Bell Telephone Laboratories, Incorporated. (See Hague, Alfred B., assignor.)
Bell Telephone Laboratories, Incorporated. (See Johnson, Kenneth S., assignor.)
Bell Telephone Laboratories, Incorporated. (See Johnson, L. H., and Hague, assignors.)
Bell Telephone Laboratories, Incorporated. (See Morton, Edmund R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Williams, Samuel B., assignor.)
Bendix Brake Company. (See Lyman, Kenneth E., assignor.)
Bercloux, Eugene, New York, N. Y. Mouthpiece for musical wind instruments. 1,696,516; Dec. 25.
Berggren Engineering Corporation. (See Berggren, Gustaf, assignor.)
Berggren, Gustaf, assignor to Berggren Engineering Corporation, Brooklyn, N. Y. Rotary pump or compressor. 1,696,517; Dec. 25.
Bernard, George. (See Halfley, George H., assignor.)
Bernheimer, Alfred G., New York, N. Y. Watchcase. Des. 77,287; Dec. 25.
Bernitz Furnace Appliance Company. (See Nygaard, Oscar, assignor.)
Bernitz Furnace Appliance Company. (See Nygaard, O., and Snow, assignors.)
Bertsch, Johann A. (See Jaeger, A. O., and Bertsch.)
Bethlehem Steel Company. (See Lehr, Charles E., assignor.)
Bethlehem Steel Company. (See McCarty, Richard J., jr., assignor.)
Bierce, Harold E., Pasadena, Calif. Decolorizing vegetable oils. 1,696,338; Dec. 25.
Bird, Lester F., Irvington, N. J., assignor to General Electric Company. Signaling system. 1,696,590; Dec. 25.
Birdsey, Charles R., Hinsdale, assignor to The United States Gypsum Co., Chicago, Ill. Plaster-board bundle. 1,696,877; Dec. 25.
Birge, M. H., & Sons Co. (See Burchfield, Charles E., assignor.)
Bishop & Babcock Manufacturing Company, The. (See Palm, John V. O., assignor.)
Bishop & Babcock Manufacturing Company, The. (See Sebring, James A., assignor.)
Black-Clawson Company, The. (See Martindale, Homer D., assignor.)
Black, John C., Los Angeles, and W. H. Low, Long Beach, assignors to Pan American Petroleum Company, Los Angeles, Calif. Purifying hydrocarbons. 1,696,377; Dec. 25.
Blakely, Phylander, Piano, Tex. Double-row stalk cutter. 1,696,186; Dec. 25.
Blanchard, Julius M., Oak Park, assignor of one-half to J. M. Mabbs, Chicago, Ill. Shipping box. 1,696,341; Dec. 25.
Bland, John, Tinton, S. Dak. Screen. Re17,173; Dec. 25.
Blieberger, Charles, New York, N. Y. Acoustic diaphragm. 1,696,565; Dec. 25.
Bliss, Elmer J., Boston, assignor to Regal Shoe Company, Whitman, Mass. Display sign. 1,696,878; Dec. 25.
Blood, Edwin J., Chicago, Ill. Cannon. 1,696,339; Dec. 25.
Blood, Harold L., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Thread-forming mechanism. 1,696,225; Dec. 25.
Bloss, Richard R., assignor to The International Derrick & Equipment Company, Columbus, Ohio. Bull-wheel structure. 1,696,664; Dec. 25.
Blume, Louis F., Pittsfield, Mass., assignor to General Electric Company. System of distribution. 1,696,591; Dec. 25.
Bohlman, Ernest A., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Distributor. 1,696,340; Dec. 25.
Bohn Aluminum and Brass Corporation. (See Eggenweiler, C. W., and Fiegel, assignors.)
Bonglovanni, Antoni, assignor of one-fourth to J. Fridman, Barnesboro, and one-fourth to S. I. Callet and one-fourth to T. J. Callet, Johnstown, Pa. Shoe-lace-fastening device. 1,696,790; Dec. 25.
Bonglovanni, Antonio, assignor of one-fourth to J. Fridman Barnesboro, and one-fourth to S. I. Callet, Johnstown, Pa. Shoe-lace-fastening device. 1,696,791; Dec. 25.
Bonin, Annie P., et al. (See Laplerre, G. J., and Gilligan, assignors.)
Bonine, Charles E., Melrose Park, Pa. Radio apparatus. 1,696,263; Dec. 25.
Booth, David N., New York, N. Y. Vehicle tire. 1,696,707; Dec. 25.
Borden Company, The. (See Ward, William C., assignor.)
Bourne-Fuller Company, The. (See Newpher, Charles F., assignor.)
Boving, Jens O., Westminster, London, England. Apparatus for raising liquids. 1,696,792; Dec. 25.
Bowen, Carl R., Wilmington, Calif. Air brake. 1,696,665; Dec. 25.
Bowman, Fred E., and G. F. Cameron, Anchorage, Alaska. Iron holder. 1,696,518; Dec. 25.
Bowman, Lee M., assignor of one-third to J. B. Primm and one-third to T. L. Shepherd, Los Angeles, Calif. Device for commercial radio reception and operation. 1,696,519; Dec. 25.
Boyle, Leo V., et al. (See Laplerre, G. J., and Gilligan, assignor.)
Bradburn, Curtis E., Garden City, Kans. Jack. 1,696,520; Dec. 25.
Bradner, Donald B., Gordon Heights, Del. Purification of organic compounds. 1,696,539; Dec. 25.
Brady, Charles T., Detroit, Mich. Illuminated hand glass. Des. 77,288; Dec. 25.
Brady, Charles T., Detroit, Mich. Desk unit magnifying lamp. Des. 77,289; Dec. 25.
Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Static-discharge device for rotary stencil duplicating machines. 1,696,750; Dec. 25.
Brauer Bros., Inc. (See Brauer, Edward J., assignor.)
Brauer, Edward J., St. Louis, Mo., assignor to Brauer Bros., Inc. Holster. 1,696,708; Dec. 25.
Brauer, Walter, Seminole, Okla. Hydraulic casing hook. 1,696,378; Dec. 25.
Brayman, Benjamin. (See Zelkowitz, Nathan and H. L., and Brayman.)
Breister, Albert J. (See Sander, H. J., and Breister.)
Bremer, Frederick G., assignor to United States Chain & Forging Company, Pittsburgh, Pa. Automobile bumper. 1,696,187; Dec. 25.
Brewer, Hazel E., Seattle, Wash. Combination garment. 1,696,620; Dec. 25.
Bridges, John R. (See Crawford, G. C., and Bridges.)
Bridgewater, George H., Maryville, and C. M. Goben, Collinsville, Ill. Door-operating mechanism for swinging doors of garages and the like. 1,696,379; Dec. 25.
Brodfuehrer, Bismarck B., B. W. Freeman, and C. A. Jester, Cincinnati, Ohio, assignors, by mesne assignments, to said Freeman. Bed for shoe ornamenting machinery. 1,696,834; Dec. 25.
Brophy, Gerald R. (See Hegel, G. W., and Brophy.)
Brower, William M., Palo Alto, assignor to Federal Telegraph Company, San Francisco, Calif. Instrument control. 1,696,380; Dec. 25.
Brown, Albert C., Chicago, Ill. Soap dish. 1,696,666; Dec. 25.
Brown, E. C., Company, The. (See Brown, Edward C., assignor.)
Brown, Edward C., assignor to The E. C. Brown Company, Rochester, N. Y. Atomizer. 1,696,428; Dec. 25.
Brown, Eric, assignor to Aktiengesellschaft Brown, Boveri & Cie., Baden, Switzerland. Machine bearing. 1,696,667; Dec. 25.
Brown, George W., Bloomington, Ill. Buckle. 1,696,293; Dec. 25.
Brown-Lipe Gear Company. (See Carhart, George C., assignor.)
Brueck, Theodore M., assignor to Ilex Optical Company, Rochester, N. Y. Photographic shutter. 1,696,264; Dec. 25.
Brump, Herbert L., assignor to The Day-Fan Electric Company, Dayton, Ohio. Centrifugal switch. 1,696,621; Dec. 25.
Buckeye Traction Ditcher Company, The. (See George, Charles L., assignor.)
Buckley, Oliver E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 1,696,265; Dec. 25.
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Buhr, Joseph F., Detroit, Mich. Multiple-spindle drill head. 1,696,468; Dec. 25.
Buiman, Elvah O., Grand Rapids, Mich. Sectional display device. 1,696,342; Dec. 25.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 77,290; Dec. 25.
Bunting, James H., Clifton, N. J., assignor to Susquehanna Silk Mills. Textile fabric. Des. 77,291; Dec. 25.
Burchfield, Charles E., assignor to M. H. Birge & Sons Co., Buffalo, N. Y. Wall paper. Des. 77,292; Dec. 25.
Burdick, Frederick E., New London, Conn. Making edible rolls. 1,696,343; Dec. 25.
Burghard, Edward G. (See von Sydow, Rudolf W., assignor.)
Burket, Russell C., Pottsville, Pa. Attachment for concrete mixers. 1,696,751; Dec. 25.
Burnett, Walter E., Los Angeles, Calif. Rotary hydraulic bath brush. 1,696,835; Dec. 25.
Burnham Chemical Company. (See Burnham, George B., assignor.)
Burnham, George B., assignor to Burnham Chemical Company, Reno, Nev. Evaporating brines. 1,696,542; Dec. 25.
Bushyager, Lee R., Hasbrouck Heights, N. J. Power transmission. 1,696,836; Dec. 25.
Button, William S., Riverside, Calif., assignor to Riverside Sheet Metal Works. Orchard heater. 1,696,668; Dec. 25.
Byerlein, Arthur A., Detroit, Mich. Toggle press. 1,696,622; Dec. 25.
Byerlein, Erle J., Wauwatosa, Wis. Foundry jolt squeezer. 1,696,669; Dec. 25.
Byerlein, Erle J., Wauwatosa, Wis. Method of and machine for casting. 1,696,670; Dec. 25.
Byron Jackson Pump Co. (See Hollander, Aladar, assignor.)
C. G. Spring & Bumper Company, The. (See Jandus, Herbert S., assignor.)
C. G. Spring & Bumper Company, The. (See Jandus, H. S., and Reed, assignors.)
Callet, Samuel E., et al. (See Bonglovanni, Antonio, assignor.)





Callet, Tobias J., et al. (See Bonglovanni, Antonio, assignor.)
Cameron, Guy F. (See Bowman, F. E., and Cameron.)
Campbell, David N. E., Atlantic City, N. J. Powdered-medicament dispenser for lung treatments. 1,696,469; Dec. 25.
Campbell, Thomas P., Denver, Colo. Treating iron ores. 1,696,188; Dec. 25.
Cantzler, Adolf. (See Günther, F., and Cantzler.)
Capell, William H., Aberdeen, Md. Retractable landing light. 1,696,521; Dec. 25.
Caps, Arthur W., Kansas City, Mo., assignor to Photostat Corporation, Providence, R. I. Photographic-copying machine. 1,696,381; Dec. 25.
Caracristi, Virginius Z., Bronxville, N. Y. Operating means for speed indicators or recorders for locomotives. 1,696,470; Dec. 25.
Carbide & Carbon Chemicals Corporation. (See Massa, Robert F., assignor.)
Carbide & Carbon Chemicals Corporation. (See Young, Charles O., assignor.)
Carhart, George C., assignor to Brown-Lipe Gear Company, Syracuse, N. Y. Motion-transmitting mechanism. 1,696,623; Dec. 25.
Carless, Thomas, Haledon, N. J. Snow-removing machine. 1,696,592; Dec. 25.
Carlson, Nelson A., assignor to Erie Meter Systems, Inc., Erie, Pa. Safety device for gasoline filling stations. 1,696,540; Dec. 25.
Carlson, Nelson A., assignor to Erie Meter Systems, Inc., Erie, Pa. Controlling mechanism for gasoline tanks. 1,696,541; Dec. 25.
Carroll, Robert A. (See Elliott, H. L., and Carroll.)
Carstens, Hans. (See Müller, W. J., Carstens, and Drucker.)
Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. High-frequency duplex signaling system. 1,696,566; Dec. 25.
Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. High-frequency signaling system. 1,696,593; Dec. 25.
Carter, Emmett F., Schenectady, N. Y., assignor to General Electric Company. High-frequency duplex signaling system. 1,696,595; Dec. 25.
Carter, Ernest, Melrose Highlands, Mass. Humidifier for internal-combustion engines. 1,696,752; Dec. 25.
Cartun, Paul O., Cleveland Heights, Ohio, assignor to General Electric Company. Electric incandescent lamp. 1,696,594; Dec. 25.
Castagna, Cesare F., Hurley Wis. Window display device. 1,696,189; Dec. 25.
Celanese Corporation of America. (See Dreyfus, H., and Haney, assignors.)
Celanese Corporation of America. (See Skertchly, William P., assignor.)
Central Union Trust Company of New York, trustee. (See Liddell, Robert P. F., assignor.)
Chapman Self Locking Nut Company, trustees. (See Emery, I. C., asignor.)
Charlebois, Joseph P. C., Toronto, Ontario, Canada. Headlight. 1,696,793; Dec. 25.
Chase, Hamilton C., asignor of one-half to T. Weber, Los Angeles, Calif. Brake for vehicle. 1,696,879; Dec. 25.
Chemische Fabrik auf Actien, vorm. E. Schering. (See Jordan, Hans, assignor.)
Chemische Fabrik auf Actien, vorm. E. Schering. (See Schoeller, W., and Jordan, assignors.)
Chicago Hardware Foundry Company. (See Wackerle, Lewis E., assignor.)
Chicago Telephone Supply Company. (See Schellenger, Newton C., assignor.)
Christen, John E., San Rafael, Calif. Shock absorber. 1,696,429; Dec. 25.
Christensen, Niels C., Salt Lake City, Utah. Treating ores with chloride solutions. 1,696,471; Dec. 25.
Christiansen, Nels, and E. A. Hierburn, Gull Lake, Saskatchewan, Canada. Intermediate gear for automobiles. 1,696,837; Dec. 25.
Cincinnati Bickford Tool Company, The. (See Klausmeyer, David C., assignor.)
Clark, Frank J., Battle Creek, Mich. Door-operating mechanism. 1,696,344; Dec. 25.
Clark, Nathaniel A., Clinton, Iowa. Sound amplifier. 1,696,624; Dec. 25.
Clarke, Edward H., Periora, Ill. Apparel hanger. 1,696,753; Dec. 25.
Clegg, Alice E. (See Clegg, William F. and A. E.)
Clegg, William F. and A. E., Oakland, Calif. Safety money container. 1,696,522; Dec. 25.
Clifford, Patrick J., Falls, Pa., assignor, by mesne assignments, to Train Control Corporation of America. Train-control apparatus. 1,696,382; Dec. 25.
Clifford, Patrick J., Falls, assignor to Train Control Corporation of America, Scranton, Pa. System of eliminating automatic train-control apparatus. 1,696,383; Dec. 25.
Clow, James B., and Sons. (See Patterson, Elam D., assignor.)
Cochran, William F., assignor to R. H. Osbrink, Los Angeles, Calif. Lock nut. 1,696,523; Dec. 25.
Coene, Emile, Haledon, assignor to The Schwarzenbach Huber Co., West Hoboken, N. J. Textile fabric. Des. 77,293; Dec. 25.
Cole, Ellis P., Chicago, Ill. Resonator. 1,696,524; Dec. 25.
Cole, Frederick W., Chicago, Ill. Egg-case flat. 1,696,430; Dec. 25.
Coles, Walter H., Troy Ohio. Irrigating apparatus. 1,696,384; Dec. 25.
Coles, Walter H., assignor to The Skinner Irrigation Company, Troy, Ohio. Irrigating device. 1,696,385; Dec. 25.
Color Cinema Productions, Inc. (See Treleaven, Clifford L. R., asignor.)
Commonwealth Steel Company. (See Pflager, Harry M., assignor.)
Commonwealth Steel Company. (See Sheehan, William M., assignor.)
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ky. Watchcase. Des. 77,294; Dec. 25.
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ohio. Watchcase. Des. 77,295; Dec. 25.
Conant, Arthur P., Fort Thomas, assignor to The Wadsworth Watch Case Company, Dayton, Ohio. Watchcase. Des. 77,295; Dec. 25.
Condit Electrical Manufacturing Corporation. (See Edsall, William S., assignor.)
Condit Electrical Manufacturing Corporation. (See Greenwood, Talma T., assignor.)
Condit Electrical Manufacturing Corporation. (See Kelle, Arthur C., assignor.)
Condit Electrical Manufacturing Corporation. (See Wood, Joseph D., assignor.)
Conklin Pen Company, The. (See Bassett, Gerald L., assignor.)
Connersville Blower Co., The. (See Hassler, Ernest C., assignor.)
Connery, Michael J., Farley, Iowa. Fuse-dispensing cabinet. 1,696,190; Dec. 25.
Conti, Emile, Alfortville, France. Shock arrester. 1,696,472; Dec. 25.
Continental Can Company. (See Fink, Henry A., assignor.)
Coolidge, Leigh H., Seattle, Wash. Propeller-blade measuring instrument. 1,696,525; Dec. 25.
Coote, John M., Elizabeth, N. J., assignor to Coote Products Corporation, New York, N. Y. Electrical testing device. 1,696,266; Dec. 25.
Coote Products Corporation. (See Coote, John M., assignor.)
Corey, James W., Cleveland Heights, assignor to The Reliance Electric & Engineering Co., Cleveland, Ohio. Range drive. 1,696,386; Dec. 25.
Cotton, Walter H., assignor to Union Draft Gear Company, Chicago, Ill. Draft gear. 1,696,345; Dec. 25.
Coulson, Hugh G., Newcastle, Ontario, Canada. Pack. 1,696,191; Dec. 25.
Crawford, George C., and J. R. Bridges, Zanesville, Ohio, assignors to Hazel-Atlas Glass Co., Wheeling, W. Va. Bottle-turning mechanism. 1,696,294; Dec. 25.
Crawford, Ralph F., Salina, Kans. Clutch control for transmission mechanism. 1,696,838; Dec. 25.
Critchfield, Robert M., Anderson, Ind., assignor, by mesne assignments to Delco-Remy Corporation, Dayton, Ohio. Sound signal. 1,696,625; Dec. 25.
Crockett, Ernest J., assignor to Mack Sennett Inc., Los Angeles, Calif. Camera attachment. 1,696,431; Dec. 25.
Crosby Steam Gage and Valve Co. (See Raymond, Fairfield E., assignor.)
Crosland, Edward M., Helsby, England. Machine for sheeting dough. 1,696,891; Dec. 25.
Crossen, Carl R., Bell, Calif. Apparatus for handling well casings. 1,696,526; Dec. 25.
Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Control circuit for electron tubes. 1,696,626; Dec. 25.
Crossley, Alfred, Washington, D. C., assignor to Wired Radio, Inc., New York, N. Y. Piezo-electric crystal. 1,696,627; Dec. 25.
Crowe, Paul L., Baltimore, Md. Crushing machine. 1,696,387; Dec. 25.
Crumly, Owen M., Carlisle, Ia. Saw attachment for tractors. 1,696,527; Dec. 25.
Cuff, James E., assignor to American Flyer Manufacturing Company, Chicago, Ill. Toy watchman's tower. Des. 77,297; Dec. 25.
Currie, Robert A., Syracuse, assignor to R. E. Dietz Company, New York, N. Y. Ball construction for lanterns and the like. 1,696,567; Dec. 25.
Curtis, David W., Oakland, Calif. Clamping lid for containers. 1,696,388; Dec. 25.
Curtis, Thomas S., Huntington Park, assignor, by mesne assignments, to The Vitrefrax Corporation, Los Angeles, Calif. Apparatus for heat treatment of materials. 1,696,794; Dec. 25.
Cutler, William C., Glendale, assignor, by mesne assignments, to Selective Automatic Manufacturing Corporation, Los Angeles, Calif. Manually-selective vending machine. 1,696,795; Dec. 25.
Dantsizen, Christian, Schenectady, N. Y., assignor to General Electric Company. Resistance unit. 1,696,596; Dec. 25.
Daseu, Paul, Ottosen, Ia., assignor to H. J. Dorweiler, Hemel, Minn. Clearing guard for planter shoes. 1,696,192; Dec. 25.
Davis and Son Manufacturing Company, The. (See Davis, Harold G., assignor.)

Davis, Clark W., Swarthmore, Pa. and G. B. Taylor, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Contact-screen holder. 1,696,528; Dec. 25.

Davis, Ernest, assignor to The Prosperity Company Inc., Syracuse, N. Y. Mechanical movement. 1,696,628; Dec. 25.

Davis, Harold G., assignor to The Davis and Son Manufacturing Company, Denver, Colo. Oil-dispensing device. Re17,168; Dec. 25.

Davis, Thomas M. (See Trogner, A. M., and Davis.)

Day, J. H., Company, The. (See Kirchhoff, William G., assignor.)

Day-Fan Electric Company. (See Brump, Herbert L., assignor.)

Debaecker, Charles E., Paris, France. Vapor burner. 1,696,389; Dec. 25.

Deland, Benjamin, South Euclid, Ohio. Folding table. 1,696,193; Dec. 25.

Delco-Remy Corporation. (See Critchfield, Robert M., assignor.)

Deltox Rug Company. (See Krueger, Edward F., assignor.)

Dempsey, Edwin R. (See Hysert, Hobert E., assignor.)

De Reamer, Frank C. (See Sargent, H. R., and De Reamer.)

Des Rosiers, John B., Providence, R. I. Controlling mechanism for wheel brakes. 1,696,839; Dec. 25.

Deutschman, Tobe C., Boston, Mass. Loop antenna. 1,696,529; Dec. 25.

De Vilbiss Company, The. (See De Vilbiss, Thomas A., assignor.)

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,298; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,299; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,300; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,301; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,302; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,303; Dec. 25.

De Vilbiss, Thomas A., assignor to The De Vilbiss Company, Toledo, Ohio. Tray or similar article. Des. 77,304; Dec. 25.

De Vry Corporation, The. (See De Vry, Herman A., assignor.)

De Vry, Herman A., assignor to The De Vry Corporation, Chicago, Ill. Film reel. 1,696,473; Dec. 25.

Dibble, Claude M., assignor to Moore Brothers Company, Joliet, Ill. Stove. Des. 77,305; Dec. 25.

Dibelka, Henry G., assignor to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. Des. 77,306; Dec. 25.

Dibelka, Henry G., assignor to The Kingsley-Miller Company, Chicago, Ill. Radiator cap. Des. 77,307; Dec. 25.

Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)

Dick, Hugo P., assignor to Merrimack Manufacturing Company, Lowell, Mass. Pile fabric. Des. 77,308; Dec. 25.

Dickinson, Harry E., Houston, Tex. Gas burner. 1,696,840; Dec. 25.

Dietz, R. E., Company. (See Currie, Robert A., assignor.)

Divine, Bradford H., Utica, N. Y. Machine for extracting juice from fruit. 1,696,390; Dec. 25.

Diouhy, August, assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,309; Dec. 25.

Doetsch & Bauer Company. (See Bauer, Carl, assignor.)

Dokkenwadel, Frederick G., Mobile, Ala., assignor of one-tenth to T. W. Milliner, one-tenth to V. R. Walley, one-tenth to B. M. Stevens, one-tenth to E. C. Fishel, and one-tenth to J. E. Green, Richton, Miss. Insecticidal plant food or fertilizer. 1,696,709; Dec. 25.

Donart, G. F. (See Slusser, Lee D., assignor.)

Donle Electrical Products Corporation. (See Donle, Harold P., assignor.)

Donle, Harold P., assignor to Donle Electrical Products Corporation, Meriden, Conn. Power supply. 1,696,880; Dec. 25.

Dorweiler, Harry J. (See Dasen, Paul, assignor.)

Douchet, Florimond, assignor to Forges & Ateliers de Constructions Electriques de Jeumont Société Anonyme, Paris, France. Protective system for electric cables. 1,696,226; Dec. 25.

Doudna, Earl E. (See McKay, M. A., and Doudna.)

Dreyfus, Henry, London, and C. I. Haney, Spondon, near Derby, England, assignors to Celanese Corporation of America. Concentrating lower-aliphatic-acid solutions. 1,696,432; Dec. 25.

Drucker, Julius. (See Müller, W. J., Carstens, and Drucker.)

Drum, Alphonsus L., et al. (See Smith, William J., assignor.)

Duncan, James E., De Kalb, Ill. Mail-box support. 1,696,530; Dec. 25.

Duncan, John A., assignor to Mercury Mills, Limited, Hamilton, Ontario, Canada. Garment. 1,696,671; Dec. 25.

Dunham, Bert G., Hawthorne, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 1,696,267; Dec. 25.

Dunham, Rex J., Oshkosh, Wis. Combination spare-tire carrier and rim tool. 1,696,295; Dec. 25.

Du Pont, E. I., de Nemours & Company. (See Davis, C. W., and Taylor, assignors.)

Dura Company, The. (See Haskins, Howard B., assignor.)

Durant Motor Co. (See Harder, D. S., and Vrooman, assignors.)

Dützmann, Wilhelm, Neustadt, Germany. Press for treating boards of alkaline cellulose and the like. 1,696,474; Dec. 25.

Dworkis, Hyman, Chicago, Ill. Cedar chest. Des. 77,310; Dec. 25.

Dworkis, Hyman, Chicago, Ill. Cedar chest. Des. 77,311; Dec. 25.

Dworkis, Hyman, Chicago, Ill. Cedar chest. Des. 77,312; Dec. 25.

Eaton, James H., Colby, Kans. Terminal connection. 1,696,531; Dec. 25.

Eckberg, Curtis R., Chicago, Ill. Liquid dispenser. 1,696,391; Dec. 25.

Eclipse Petrol Economizer System Company, The. (See Godward, Ernest R., assignor.)

Edison Electric Appliance Company. (See Shroyer, Jacob L., assignor.)

Edison, Russell L., assignor to Fleckenstein Pump Company, Grand Rapids, Mich. Liquid measuring and dispensing apparatus. 1,696,841; Dec. 25.

Edison, Thomas A., Incorporated. (See Holland, Newman H., assignor.)

Edsall, William S., assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Multibreak electric switch. 1,696,296; Dec. 25.

Edwards, John F., Warren, Ark. Compound for tempering tools and tool steel. 1,696,297; Dec. 25.

Eggenweiler, Charles W. and W. J. Fiegel, assignors to Bohn Aluminum and Brass Corporation, Detroit, Mich. Machine for trimming the edges of bearings or like sections. 1,696,392; Dec. 25.

Ehret, Cornelius D. (See Porter, Harry F., assignor.)

Eller, Lou C., Spokane, Wash., assignor to Lockit Cap Company. Tank-riser closure. 1,696,754; Dec. 25.

Elliott Addressing Machine Company. (See Geiger, E. A., Schraegle, and Jennings, assignors.)

Elliott Addressing Machine Company. (See Geiger, Erwin A. and A., assignors.)

Elliott, Henry L. and R. A. Carroll, Claysville, Pa. Internal-combustion engine. 1,696,475; Dec. 25.

Ely, Alonzo B., and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriting Inc., Syracuse, N. Y. Typewriting machine. 1,696,227; Dec. 25.

Ely, Alonzo B., and E. L. Harmon, Groton, assignors, by mesne assignments, to L C Smith & Corona Typewriters Inc., Syracuse, N. Y. Typewriting machine. 1,696,228; Dec. 25.

Emerson, Leo F. (See Strand, Harry L., assignor.)

Emery, I. C., assignor to Chapman Self Locking Nut Company, Baltimore, Md., trustees of a common-law-trust estate. Apparatus for making lock-nut blanks. 1,696,672; Dec. 25.

Engstrom, Gustaf W. (See French, C. A., and Engstrom.)

Enloe, Thomas B., Little Rock, Ark. Toy. 1,696,532; Dec. 25.

Erie Meter Systems, Inc. (See Carlson, Nelson A., assignor.)

Ern, August F., Scarsdale, assignor to K. C. Seelbach Company, New York, N. Y. Razor blade. Des. 77,313; Dec. 25.

Fageros, Edgar D., Minneapolis, Minn. Motor gauge. 1,696,393; Dec. 25.

Fantz, Fred C., Webster Groves, assignor to Midwest Piping & Supply Company, Incorporated, St. Louis, Mo. Forming flanges on pipes. 1,696,229; Dec. 25.

Faubert, Harry W., and E. E. Wheelock, Woonsocket, R. I. Denture brush. 1,696,433; Dec. 25.

Fay, Joseph W., Villa Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for producing soldering units comprising solder and fluxing material. 1,696,268; Dec. 25.

Federal Manufacturing Company. (See Jackson, Aldrich L., assignor.)

Federal Telegraph Company. (See Brower, William M., assignor.)

Feichter, John, Chicago, Ill. Radiator construction. 1,696,346; Dec. 25.

Fenno, Grace L., Palos Park, Ill. Book-cover file. 1,696,629; Dec. 25.

Fergusson, A. R., Mfg. Corp. (See Fergusson, Alan R., assignor.)

Fergusson, Alan R., assignor to A. R. Fergusson Mfg. Corp., Buffalo, N. Y. Ice skate. 1,696,597; Dec. 25.

Feybusch, Martin, New York, N. Y., and P. W. Fleischer, Weehawken, assignors to New Jersey Machine Corporation, Hoboken, N. J. Gumming machine. 1,696,755; Dec. 25.

Fiegel, William J. (See Eggenweiler, C. W., and Fiegel.)

Filer, George A., Cornell, Wis. Egg-case flat. 1,696,434; Dec. 25.

Fink, Henry A., Oak Park, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Packing device for filled-can-closing machines. 1,696,706; Dec. 25.





Firth, Herbert M., Niles Center, Ill. Light fixture. Des. 77,314; Dec. 25.

Fishel, E. C., et al. (See Dokkenwadel, Frederick G., assignor.)

Fisk Rubber Company, The. (See Hansen, Raymond, assignor.)

Fisk Rubber Company, The. (See Irrgang, William F., assignor.)

Fisk Rubber Company, The. (See Whittier, Elmer S., assignor.)

Fitch, Francis E., Philadelphia, Pa., and M. W. Torbet, Jackson, Mich. Direct-reading viscosimeter. 1,696,630; Dec. 25.

Fitz Gerald, Allan S., London, England, assignor to General Electric Company. Protective system. 1,696,598; Dec. 25.

Flam, Stephen, Walnut Park, assignor to Supertile Machinery Corporation, Los Angeles, Calif. Multiple mold. 1,696,756; Dec. 25.

Fleckenstein Pump Company. (See Edison, Russell L., assignor.)

Fleischer, Paul W. (See Feybusch, M., and Fleischer.)

Flood, George A., Los Angeles, Calif. Cultivator. 1,696,710; Dec. 25.

Fogel, Fred F., Hawarden, Iowa. Battery terminal. 1,696,568; Dec. 25.

Ford, Henry, Dearborn, Mich. Liquid-level gauge. 1,696,347; Dec. 25.

Ford, William B., Birmingham, Ala. Suspending and controlling header for meters. 1,696,757; Dec. 25.

Foreman, John H., Denison, Tex. Tool for applying patches to flexible hose. 1,696,194; Dec. 25.

Forges & Ateliers de Constructions Electriques de Jeumont Société Anonyme. (See Douchet, Florimond, assignor.)

Fornaca, Guido, Turin, Italy. Spring-controlled gear. 1,696,797; Dec. 25.

Forsberg, Peter W., Schenectady, N. Y., assignor to General Electric Company. Regenerative braking. 1,696,599; Dec. 25.

Foundation Oven Corporation. (See Schrader, Lloyd F., assignor.)

Fourness Development Corporation, The. (See Fourness, Wilfred, assignor.)

Fourness, Wilfred, Pasadena, Calif., assignor, by mesne assignments, to The Fourness Development Corporation, New York, N. Y. Compressor. 1,696,673; Dec. 25.

Fourness, Wilfred, Pasadena, Calif., assignor, by mesne assignments, to The Fourness Development Corporation, New York, N. Y. Compressor. 1,696,674; Dec. 25.

Fox, Martin, assignor to The Seng Company, Chicago, Ill. Corner lock. 1,696,269; Dec. 25.

Fraley, Clifford A., Belleville, N. J., assignor to Revere Rubber Company, Chelsea, Mass. Expansion joint. 1,696,435; Dec. 25.

Frampton, William R., assignor to Southern California Edison Company, Los Angeles, Calif. Electrical apparatus. 1,696,348; Dec. 25.

Fraser, Grace L., and C. T. Kent, London, England. Doll. Des. 77,325; Dec. 25.

Freeman, Benjamin W. (See Brodfuehrer, B. B., Freeman, and Jester.)

Freeman, Benjamin W., Cincinnati, Ohio. Shoe-ornamenting machinery. 1,696,631; Dec. 25.

French, Charles A., Chicago, and G. W. Engstrom, Riverside, Ill., assignors to International Harvester Company. Semiflash boiler. 1,696,892; Dec. 25.

French, Cyril. (See Mackintosh, E. V., and French.)

Fridman, Jess, et al. (See Bongiovanni, Antonio, assignor.)

Friend, Theodore E., Norwalk, Ohio. Radiofrequency unit. 1,696,675; Dec. 25.

Frigidaire Corporation. (See Summers, Otto M., assignor.)

Fritz, Edward M., assignor to Grand Rapids Cabinet Company, Grand Rapids, Mich. Brick-ice-cream packing and cooling cabinet. 1,696,349; Dec. 25.

Froussard, Albert F., St. Louis, Mo. Cutter head. 1,696,195; Dec. 25.

Fuchs, Henry, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,696,350; Dec. 25.

Fuhr, William, Chicago, Ill. Internal-combustion motor. 1,696,676; Dec. 25.

Fuller Lehigh Company. (See Jacobus, David S., assignor.)

Gage, Fred W., Los Angeles, and A. W. Tondreau, Glendale, Calif. Film signaling device for cameras. 1,696,533; Dec. 25.

Galdi, Armando, Somerville, and E. S. Peterson, Lexington, Mass. Water heater. 1,696,758; Dec. 25.

Galloway, Alexander G. (See Mann, C. W., and Galloway.)

Garankin, Theodore P., assignor of one-half to B. A. Mueller, New York, N. Y. Trap nest. 1,696,394; Dec. 25.

Garrott, John C., Houston, Tex. Detachable sucker-rod guide. 1,696,543; Dec. 25.

Gat Gun Lubricating Corporation. (See Hundemer, Walter F., assignor.)

Gathmann, Emil, Baltimore, Md. Shrink-head casing for ingot molds. 1,696,395; Dec. 25.

Gaylord, Robert H., Los Angeles, Calif. Signaling system for elevators. 1,696,842; Dec. 25.

Geiger, Adolph. (See Geiger, Erwin A. and A.)

Geiger, Erwin A., Westfield, and A. Geiger, Elizabeth, N. J., assignors, by mesne assignments, to Elliott Addressing Machine Company. Hand-operated addressing machine. 1,696,760; Dec. 25.

Geiger, Erwin A., Westfield, A. F. Schraegle, Roselle, N. J., and H. T. Jennings, Glendale, N. Y., assignors, by mesne assignments, to Elliott Addressing Machine Company. Automatic selective attachment for addressing machines. 1,696,759; Dec. 25.

Geiger, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,696,351; Dec. 25.

Geigy, J. R., S. A. (See Agthe, Carl A., assignor.)

General Electric Company. (See Bird, Lester F., assignor.)

General Electric Company. (See Blume, Louis F., assignor.)

General Electric Company. (See Carter, Emmett F., assignor.)

General Electric Company. (See Cartun, Paul O., assignor.)

General Electric Company. (See Dantsizen, Christian, assignor.)

General Electric Company. (See Fitz Gerald, Allan S., assignor.)

General Electric Company. (See Forsberg, Peter W., assignor.)

General Electric Company. (See Hall, Chester I., assignor.)

General Electric Company. (See Hegel, G. W., and Brophy, assignors.)

General Electric Company. (See Hilliard, John D., assignor.)

General Electric Company. (See Hollnagel, Herbert P., assignor.)

General Electric Company. (See Kjolseth, Ole K., assignor.)

General Electric Company. (See McDonald, Gordon R., assignor.)

General Electric Company. (See Otis, A. N., and Ipsen, assignors.)

General Electric Company. (See Prince, David C., assignor.)

General Electric Company. (See Rankin, William K., assignor.)

General Electric Company. (See Rice, Chester W., assignor.)

General Electric Company. (See Sargent, H. R., and De Reamer, assignors.)

General Electric Company. (See Steele, Williard R., assignor.)

General Electric Company. (See Trombetta, Panfilo, assignor.)

General Electric Company. (See Welch, Alfred F., assignor.)

George, Charles L., assignor to The Buckeye Traction Ditcher Company, Findlay, Ohio. Friction drive means. 1,696,476; Dec. 25.

Gerlinger, Lawrence C., Seattle, Wash. Valve. 1,696,396; Dec. 25.

Getty and Scott Limited, Messrs. (See Bell, George W., assignor.)

Gilbert, John J., Port Washington, assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical pilotage. 1,696,230; Dec. 25.

Gill, Aaron H., West Haven, Conn. Toy electric-railway control device. 1,696,534; Dec. 25.

Gilligan, Thomas A. (See Lapierre, G. J., and Gilligan.)

Givens, Clara B., administratrix. (See Givens, Frank C.)

Givens, Frank C., deceased, Tuolumne, Calif., C. B. Givens, administratrix. Carburetor. 1,696,711; Dec. 25.

Glaser, Herbert, New York, N. Y. Door-operated switch. 1,696,712; Dec. 25.

Glaze, John H. (See Stem, I. F., and Glaze.)

Goben, Charles M. (See Bridgewater, G. H., and Goben.)

Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economizer System Company, Limited, Christchurch, New Zealand. Vaporizer for liquid fuels. 1,696,761; Dec. 25.

Godward, Ernest R., New York, N. Y., assignor to The Eclipse Petrol Economizer System Company, Limited, Christchurch, New Zealand. Vaporizer for liquid fuel. 1,696,881; Dec. 25.

Goldwyn Brothers. (See Manly, Fred G.)

Goldwyn, George I., et al. (See Manly, Fred G., assignor.)

Goldwyn, Herman, et al. (See Manly, Fred G., assignor.)

Goodiatte, T. R., & Sons (Inc.). (See Thorne, Edward, assignor.)

Goodman, Clara R., Ithaca, N. Y. Ironing board. 1,696 798; Dec. 25.

Goodwin, James J., assignor to Goodwin Laboratories, Inc., Louisville, Ky. Germicidal compound. 1,696,762; Dec. 25.

Goodwin Laboratories, Inc. (See Goodwin, James J., assignor.)

Gordon, William, New York, N. Y. Tobacco-ash receiver. Des. 77,315; Dec. 25.

Goucher, Elma E., McMinnville, Oreg. Automatic agricultural machine. 1,696,352; Dec. 25.

Gould, Roy F., assignor to Reserve Holding Company, Chicago, Ill. Automatic telephone system. 1,696,270; Dec. 25.

Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Controlling mechanism. 1,696,535; Dec. 25.

Graham, William H., Oakland Calif. Disappearing or telescopic lawn sprinkler. 1,696,298; Dec. 25.

Grand Rapids Cabinet Company. (See Fritz, Edward M., assignor.)

Grant, Richard F., et al. (See Wetherbee, Herbert E., assignor.)

Grasselli Dyestuff Corporation. (See Mieg, W., and Job, assignors.)

Gray, James H., Nice, France. Liquid-fuel burner. 1,696,196; Dec. 25.

Gray William H., Portland, Oreg. Pump for refrigerating apparatus. 1,696,436; Dec. 25.

Green, Howard H., Bardwell, Tex. Agricultural machine. 1,696,299; Dec. 25.

Green, Howard H., Bardwell, Tex. . Steering mechanism. 1,696,300; Dec. 25.

Green, J. E., et al. (See Dokkenwadel, Frederick G., assignor.)

Greenwood, Talma T., East Templeton, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Contact structure for electric switches. 1,696,301; Dec. 25.

Griessbach, Robert, Ludwigshafen-on-the-Rhine, and K. Röhre, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of sodium nitrate. 1,696,197; Dec. 25.

Gross, Otto, Dallas, Tex. Combination cap and eye shield. 1,696,198; Dec. 25.

Guinn, Samuel E., Johnson City, Tenn. Vanity case. Des. 77,316; Dec. 25.

Günther, Fritz, Ludwigshafen-on-the-Rhine, and A. Cantzler, Mannheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Aromatic sulphonic acid. 1,696,199; Dec. 25.

Haefly Emil, Basel, Switzerland. Apparatus for the manufacture of mica-coated fibrous material. 1,696,397; Dec. 25.

Hague, Alfred E. (See Johnson, L. H., and Hague.)

Hague, Alfred E., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call-charging telephone-exchange system. 1,696,271; Dec. 25.

Haifley, George H., assignor of one-half to G. Bernard, Eureka, Kans. Fishing tool. 1,696,200; Dec. 25.

Haist, Foster A. (See Miller, E. S., and Haist.)

Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Demand-meter attachment for fluid meters. 1,696,600; Dec. 25.

Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. System of motor control. 1,696,601; Dec. 25.

Hall, Ernest A., and G. J. Lindroth, assignors to The Hall Manufacturing Company, Toledo, Ohio. Cylinder hone. 1,696,477; Dec. 25.

Hall, Joseph M., Hamilton, Ontario, Canada. Shock absorber. 1,696,478; Dec. 25.

Hall Manufacturing Company, The. (See Hall, E. A., and Lindroth, assignors.)

Hand, Carl N., Nitro, W. Va. assignor to The Rubber Service Laboratories Co., Akron, Ohio. Manufacture of acetaldehyde. 1,696,479; Dec. 25.

Haney, Clifford I. (See Dreyfus, H., and Haney.)

Haney, Myron L., Beloit, Wis. Coin-controlled fan. 1,696,231; Dec. 25.

Haney, Myron L., Chicago, Ill. Coin-controlled fan. 1,696,232; Dec. 25.

Hanna, Howard M., et al. (See Wetherbee, Herbert E., assignor.)

Hansen Canning Machinery Corporation. (See Hansen, Oswald H., assignor.)

Hansen, Conrad T., and A. B. Bell, assignors to The American Motor Body Corporation, Philadelphia, Pa. Car seat. 1,696,536; Dec. 25.

Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Beet topper. 1,696,398; Dec. 25.

Hansen, Oswald H., Port Washington, assignor to Hansen Canning Machinery Corporation, Cedarburg, Wis. Process of and apparatus for treating fruit. 1,696,399; Dec. 25.

Hansen, Raymond, Cudahy, Wis., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Bag inserter. 1,696,843; Dec. 25.

Harder, Delmar S., and F. W. Vrooman, assignors to Durant Motor Co., Oakland, Calif. Mounting means for vehicle engines. 1,696,602; Dec. 25.

Hare, Christopher E., Rochester, Minn. Suprapubic siphon. 1,696,763; Dec. 25.

Harmon, Edwin L. (See Ely, A. B., and Harmon.)

Harrigan, John T., Plainfield, N. J. Circuit closer. 1,696,713; Dec. 25.

Harris, Howard C., Akron, Ohio. Pivotal connection. 1,696,201; Dec. 25.

Harris, Richard M., Dallas, Tex. Protecting window glass in windows and doors of motor vehicles when paint is applied. 1,696,202; Dec. 25.

Hartford-Empire Company. (See Peller, Karl E., assignor.)

Hartford-Empire Company. (See Willetts, Paul G., assignor.)

Hartley, James W. (See Smart, Edmund F., assignor.)

Haseltine, Stacy B., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,696,302; Dec. 25.

Haskins, Howard B., assignor to The Dura Company, Toledo, Ohio. Manufacture of window regulators. 1,696,353; Dec. 25.

Hassler, Ernest C., assignor to The Connersville Blower Co., Connersville, Ind. Blower. 1,696,882; Dec. 25.

Hater, Harry J. (See Rindsberg, Harry D., assignor.)

Haug, Anton J., Nashua, N. H. Pulp-screening machine. 1,696,354; Dec. 25.

Hawkins, Nannie E., Cincinnati, Ohio. Clothes hanger. 1,696,480; Dec. 25.

Haynes, Hugh S., and W. L. Alexander, Tampico, assignors of one-third to G. E. Paddleford, Tampico, Tamaulipas, Mexico. Casing head for oil wells. 1,696,844; Dec. 25.

Hayton, Thomas R., Appleton, Wis. Tube cleaner. 1,696,677; Dec. 25.

Hazel-Atlas Glass Co. (See Crawford, G. C., and Bridges, assignors.)

Healy, Edwin S., et al. (See Malone, Adolph W., assignor.)

Hegel, George W., Schenectady, and G. R. Brophy, Niskayuna, N. Y., assignors to General Electric Company. Carburization of metals. 1,696,603; Dec. 25.

Heideman, Fred J., assignor to T. C. Whitehead, Detroit, Mich. Pump-valve assembly. 1,696,272; Dec. 25.

Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Energizing vacuum discharge devices by alternating current. 1,696,233; Dec. 25.

Heising, Raymond A., Millburn, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Antenna. 1,696,234; Dec. 25.

Held, Georges, Brussels, Belgium. Internal-combustion engine of the two-stroke type. 1,696,799; Dec. 25.

Heller, Hugo, and J. C. Mitchell, assignors to A. C. Koo'z, Milwaukee, Wis. Loud-speaker unit. 1,696,235; Dec. 25.

Heller, Nathan, Brooklyn, N. Y. Seashore outfit. 1,696,714; Dec. 25.

Helm, Charles A., Cleveland, Ohio. Fire-extinguishing apparatus. 1,696,800; Dec. 25.

Helmond, William F., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,696,236; Dec. 25.

Helsing, Hjalmer B., Moberly, Mo. Drain-ditch check device. 1,696,481; Dec. 25.

Henning, Cedric B., Hunters Hill, near Sydney, New South Wales, Australia. Hand cultivator. 1,696,678; Dec. 25.

Henry, William, Philadelphia, Pa. Power-transmission device. 1,696,632; Dec. 25.

Hercules Powder Company. (See Shimer, Abraham A., assignor.)

Hercules Powder Company. (See Symmes, Ernest M., assignor.)

Herrick, Stephen S., Oakland, Calif. Lintel bar, 1,696,764; Dec. 25.

Hespe, Alfred T., East Orange, N. J. Making thermometer tubes. 1,696,400; Dec. 25.

Hesskew, William R., and J. J. Nulty, San Antonio, Tex. Rail crossing. 1,696,482; Dec. 25.

Hiering, William C., assignor to J. E. Mergott Co., Newark, N. J. Metal box. 1,696,483; Dec. 25.

Higgins, Ernest, Gloucester, England. Shirt and like article of wearing apparel. 1,696,679; Dec. 25.

Hill, Harold O., Aspinwall, assignor to Riter-Conley Manufacturing Company, Pittsburgh, Pa. Transmission tower. 1,696,569; Dec. 25.

Hiller, Stanley, assignor to Stanley Hiller, Inc., San Jose, Calif. Continuous screw press. 1,696,401; Dec. 25.

Hiller, Stanley, Inc. (See Hiller, Stanley, assignor.)

Hillery, Purley E. (See Trewhitt, J. E., and Hillery.)

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Oil switch. 1,696,570; Dec. 25.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,696,571; Dec. 25.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,696,572; Dec. 25.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Electric switch. 1,696,573; Dec. 25.

Hilliard, John D., Schenectady, N. Y., assignor to General Electric Company. Fluid-break switch. 1,696,604; Dec. 25.

Hislop, Robert S., assignor to Racine Confectioners Machinery Company, Racine, Wis. Depositor. 1,696,845; Dec. 25.

Hlavka, James, Burke, S. Dak. Plant guard for cultivators. 1,696,680; Dec. 25.

Hobart Manufacturing Company, The. (See Johnston, Herbert L., assignor.)

Hobbs, Clarence. (See Hobbs, Frank D. and C.)

Hobbs, Frank D. and C., Los Angeles, Calif. Screen latch. 1,696,355; Dec. 25.

Hofmann, Alfred, Fort Lee, and O. Kanis, assignors to Alfred Hofmann Needle Works, Inc., Union City, N. J. Needle-making machine. 1,696,484; Dec. 25.

Hofmann, Alfred, Needle Works, Inc. (See Hofmann, A., and Kanis, assignors.)

Holdaway, Hall H., Long Beach, Calif. Rotary pipe tongs. 1,696,356; Dec. 25.

Holladay, Louis P., jr. (See Rogers, P. L., and Holladay.)





Holland, Newman H., East Orange, assignor, by mesne assignments, to Thomas A. Edison, Incorporated, West Orange, N. J. Signaling system or the like. 1,696,544; Dec. 25.

Hollander, Aladar, Berkeley, Calif., assignor, by mesne assignments, to Byron Jackson Pump Co. Variable-head centrifugal pump. 1,696,545; Dec. 25.

Hollnagel, Herbert P., Swampscott, Mass., assignor to General Electric Company. Combined resistor and fuse. 1,696,605; Dec. 25.

Hoock, Lizzie, Colony, Okla. Reel. 1,696,681; Dec. 25.

Hope Webbing Company. (See Horton, Charles A., assignor.)

Hopkins, George F., deceased, Jackson, Mich.; W. K. Sagendorph, executor. Chuck jaws. 1,696,765; Dec. 25.

Horton, Charles A., Providence, assignor to Hope Webbing Company, Pawtucket, R. I. Radioantenna. 1,696,402; Dec. 25.

Hough, Otto V., Warrenton, Mo. Protecting paved roads against erosion. 1,696,237; Dec. 25.

Howard, Leslie E., Lockport, N. Y., assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Heat-treating apparatus. 1,696,801; Dec. 25.

Howe, Donald W., Biloxi, Miss. Peanut butter. 1,696,766; Dec. 25.

Howell, James W., assignor to The White Motor Company, Cleveland, Ohio. Tool. 1,696,574; Dec. 25.

Hoyois, Léon, Gilly, Belgium. Method of washing coal, ores, and other similar materials, and automatic water-current separator for carrying the method into practice. 1,696,767; Dec. 25.

Huddleston, Robert M., San Francisco, Calif. Can-feeding machine. 1,696,715; Dec. 25.

Hughes, Joel D., Roseberry, Idaho. Railway track. 1,696,633; Dec. 25.

Humphrey, Reginald E., Swanton, Vt. Radio receiving apparatus. 1,696,437; Dec. 25.

Hundemer, Walter F., Alameda, assignor to Gat Gun Lubricating Corporation, Oakland, Calif. Booster grease gun and greasing bearings. 1,696,606; Dec. 25.

Hurley, Edward T., Cincinnati, Ohio. Bowl or similar article. Des. 77,317; Dec. 25.

Hutchins, Frank E., et al. (See Rosentreter, Albert J., assignor.)

Hutchison, Miller R., Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Sound propagation. 1,696,303; Dec. 25.

Hutchison, Miller R., Llewelyn Park, West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Multituned horn. 1,696,304; Dec. 25.

Hutchison, Miller R., West Orange, N. J., assignor, by mesne assignments, to Acoustic Products Company, New York, N. Y. Electromagnetic sounding-board actuator. 1,696,805; Dec. 25.

Huxley, Joseph H., Chelsea, and W. A. Stephens, Shepherds Bush, London, England. Sealing machine. 1,696,575; Dec. 25.

Hyman, Henry, et all. (See Alschuler, Ernst, assignor.)

Hysert, Robert E., assignor of one-half to E. R. Dempsey, Buffalo, N. Y. Reversible window. 1,696,607; Dec. 25.

I. G. Farbenindustrie Aktiengesellschaft. (See Griessbach, R., and Röhre, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Günther, F., and Cantzler, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Müller, W. J., Carstens, and Drucker, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Wulff, P., and Wendt, assignors.)

Ihrmark, Gideon, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Air-line oiler. 1,696,485; Dec. 25.

Ilex Optical Company. (See Brueck, Theodore M., assignor.)

Illerburn, Ernest A. (See Christiansen, N., and Illerburn.)

Imhoff, Karl, Essen, Germany. Sewage treatment with the aid of a screen acting like a filter. 1,696,846; Dec. 25.

Ingersoll-Rand Company. (See Ihrmark, Gideon, assignor.)

Ingersoll-Rand Company. (See Lee, Gordon, assignor.)

Innes, William, Northumberland, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Fluid heater. 1,696,306; Dec. 25.

International Derrick & Equipment Company, The. (See Bloss, Richard R., assignor.)

International Harvester Company. (See French, C. A., and Engstrom, assignors.)

Internationale Nahrungs- und Genussmittel Aktiengesellschaft. (See Staudinger, H., and Reichstein, assignors.)

Invincible Vacuum Cleaner Manufacturing Company. (See Nisbet, Edward A., assignor.)

Ipsen, Carl L. (See Otis, A. N., and Ipsen.)

Irrgang, William F., Chicopee, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Stitching device. 1,696,847; Dec. 25.

Irwin, George N., Whitby, Ontario, Canada. Animal trap. 1,696,768; Dec. 25.

Isaksson, Carl, J. E., Spanga, assignor of one-half to H. T. Tillquist, Stockholm, Sweden. Spark plug. 1,696,634; Dec. 25.

Isbell, Arthur C., Ivoryton, Conn. Apparatus for guiding automobiles into position for service. 1,696,238; Dec. 25.

Jackson, Aldrich L., assignor to Federal Manufacturing Company, St. Paul, Minn. Advertising cigar lighter. Des. 77,318; Dec. 25.

Jacobus, David S., Jersey City, N. J., assignor, by mesne assignments, to Fuller Lehigh Company. Furnace wall. 1,696,239; Dec. 25.

Jaeger, Alphons O., and J. A. Bertsch, St. Louis, Mo.; said Jaeger assignor to The Selden Company, Pittsburgh, Pa. Catalytic oxidation of sulphur dioxide. 1,696,546; Dec. 25.

James, Clayton D., Lyon Village, Va. Hydraulic power-transmission device. 1,696,307; Dec. 25.

Jandus, Herbert S., assignor to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper support. 1,696,884; Dec. 25.

Jandus, Herbert S., and L. H. Reed, assignors to The C. G. Spring & Bumper Company, Detroit, Mich. Bumper. 1,696,883; Dec. 25.

Jeffreys, William, East Orange, N. J. Dental implement. 1,696,486; Dec. 25.

Jennings, Henry T. (See Geiger, E. A., Schraegle, and Jennings.)

Jennings, Irving C., assignor to Nash Engineering Company, South Norwalk, Conn. Air and water pump in combination. 1,696,635; Dec. 25.

Jervis, Albert E., Nappanee, Ind. Water filter. 1,696,487; Dec. 25.

Jespersen, Helgo W., Riverside, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Mechanism for working pulpous material. 1,696,273; Dec. 25.

Jester, Charles A. (See Brodfuehrer, B. B., Freeman, and Jester.)

Job, Albert. (See Mieg, W., and Job.)

Johnson, Kenneth S., Jersey City, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Substation circuits. 1,696,274; Dec. 25.

Johnson, Lewis H., Madison, and A. E. Hague, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call-charging telephone-exchange system. 1,696,275; Dec. 25.

Johnson, Stephens & Shinkle Shoe Company. (See Spalsbury, Charles B., assignor.)

Johnson, Willis W., Dewittville, N. Y. Fire escape. 1,696,357; Dec. 25.

Johnston, Herbert L., assignor to The Hobart Manufacturing Company, Troy, Ohio. Grinding apparatus. 1,696,636; Dec. 25.

Jones, Clyde W., Bloomington, Ind. Stone-channeling machine. 1,696,576; Dec. 25.

Jordan, George E., Perry, Ga. Safety arrangement for railroad crossings. 1,696,637; Dec. 25.

Jordan, Hans. (See Schoeller, W., and Jordan.)

Jordan, Hans, Berlin-Steglitz, assignor to the firm: Chemische Fabrik auf Actien, vorm. E. Schering, Berlin, Germany. Producing condensation products from crude cresol and acetone. 1,696,769; Dec. 25.

Judd, H. L., Company. (See Dlouhy, August, assignor.)

Judd, H. L., Company. (See Vermillion, Raymond H., assignor.)

Junkunc, John, Chicago, Ill. Lock. 1,696,488; Dec. 25.

Kahn, Herbert, assignor to Kahn Mirror Plate Company, St. Louis, Mo. Display sign and the like. 1,696,489; Dec. 25.

Kahn Mirror Plate Company. (See Kahn, Herbert, assignor.)

Kallenbaugh Corporation. (See Kallenbaugh, Samuel E., assignor.)

Kallenbaugh, Samuel E., Manchester, Ga., assignor to Kallenbaugh Corporation. Web-feeding attachment for job printing presses. 1,696,638; Dec. 25.

Kanis, Oswin. (See Hofmann, A., and Kanis.)

Kasanof, Maurice M., New York, N. Y. Device for drying, steaming, and conditioning tubular fabrics. 1,696,682; Dec. 25.

Kaufman, Frank P., Grand Island, Nebr. Fender extension. 1,696,802; Dec. 25.

Kautz, Jacob, Chicago, Ill. Shore clamp. 1,696,848; Dec. 25.

Keener, Ernest L., New Castle, Ind. Shoe-heel-cutter guard. 1,696,716; Dec. 25.

Kelg, Marshall E., Chicago, Ill. Blotting device. 1,696,308; Dec. 25.

Kelle, Arthur C., Canton, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Multibreak electric switch. 1,696,276; Dec. 25.

Kellecher, Thomas J., Chicago, Ill. Bending machine. 1,696,849; Dec. 25.

Kellogg Switchboard and Supply Company. (See Bohlman, Ernest A., assignor.)

Kendall, Burton W., assignor to Western Electric Company, Incorporated, New York, N. Y. Repeater. 1,696,241; Dec. 25.

Kent, Cynthia F. (See Fraser, G. L., and Kent.)

Keough, Robert E., Montreal West, Canada, assignor to The American Fork & Hoe Company, Cleveland, Ohio. Track gauge. 1,696,885; Dec. 25.

Kern, George P. (See Kuhlmann, Henry F. and E., assignors.)

Kestenman Bros. Mfg. Co. (See Kestenman, Charles H., assignor.)

Kestenman, Charles H., assignor to Kestenman Bros. Mfg. Co., Providence, R. I. Connecter for wrist-watch strap, band, or bracelet. 1,696,577; Dec. 25.

Kewish, John T., New York, N. Y. Automatic firearm. 1,696,537; Dec. 25.
Keystone Mfg. Co., The. (See Miller, E. S., and Haist, assignors.)
Kieffer, Eugene T., and W. B. Stevenson, Philadelphia, Pa., assignors to Victor Talking Machine Company. Talking machine. 1,696,683; Dec. 25.
Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Sewing machine. 1,696,438; Dec. 25.
Klewicz, John, assignor to The Reece Button Hole Machine Company, Boston, Mass. Buttonhole-sewing machine. 1,696,893; Dec. 25.
Killingsworth, John W., Atlanta, Ga. Banding machine. 1,696,850; Dec. 25.
Kingsley-Miller Company, The. (See Dibelka, Henry G., assignor.)
Kircher, Albert G., jr., Jamaica, N. Y. Paint can. 1,696,240; Dec. 25.
Kirchhoff, William G., assignor to The J. H. Day Company, Cincinnati, Ohio. Dough mixer. Re17,169; Dec. 25.
Kjolseth, Ole K., Scotia, N. Y., assignor to General Electric Company. Railway truck. 1,696,608; Dec. 25.
Klausmeyer, David C., Cincinnati, assignor to The Cincinnati Bickford Tool Company, Oakley, Cincinnati, Ohio. Accessible twin-lever gear shift for drill heads. 1,696,403; Dec. 25.
Klement, Charles W., Toronto, Ontario, Canada. Street stop signal for vehicles. 1,696,277; Dec. 25.
Kluse, Peter G., Los Angeles, Calif. Aeroplane. 1,696,404; Dec. 25.
Knapp, Paul, Woodbury, N. J. Resinous material and making same. 1,696,490; Dec. 25.
Knopp, Otto A., Oakland, Calif. Heater controller. 1,696,684; Dec. 25.
Knox, Harry A., Davenport, Iowa. Fighting tank. 1,696,439; Dec. 25.
Kochendorfer, Frederic S., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for forming articles. 1,696,242; Dec. 25.
Koots, A. C. (See Heller, H., and Mitchell, assignors.)
Kopp Glass, Incorporated. (See Kopp, Nicholas, assignor.)
Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Incorporated, Swissvale, Pa. Lighting-fixture shade or similar article. Des. 77,319; Dec. 25.
Kopp, Nicholas, Pittsburgh, assignor to Kopp Glass, Inc., Swissvale, Pa. Light shade or similar article. Des. 77,320; Dec. 25.
Krell, George, and G. M. Martinet, Sapulpa, Okla.; said Martinet assignor to said Krell. Variable-speed transmission. 1,696,203; Dec. 25.
Kresky, Jesse E., Petaluma, Calif. Liquid-fuel burner. 1,696,547; Dec. 25.
Kronqvist, Karl F., Helsinki, Suomi-Finland. Feeding device for manufacturing and wrapping of sweetmeats and the like. 1,696,803; Dec. 25.
Krueger, Edward F., assignor to Deltox Rug Company, Oshkosh, Wis. Cop-winder head. 1,696,717; Dec. 25.
Krupp, Louis, New York, N. Y. Power-operated brake. 1,696,851; Dec. 25.
Kubatzky, Otto, assignor to O. K. Playing Card Company, Tulsa, Okla. Set of playing cards. Des. 77,321; Dec. 25.
Kuhlmann, Elenora. (See Kuhlmann, Henry F. and E.)
Kuhlmann, Henry F. and E., assignors of one-half to G. P. Kern, Indianapolis, Ind. Washing machine. 1,696,718; Dec. 25.
Kurowski, Alfred C. F., Brooklyn, assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 1,696,243; Dec. 25.
Kyle, William D., Milwaukee, assignor to Line Material Company, South Milwaukee, Wis. Insulator rack. 1,696,491; Dec. 25.
La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Feeding and forming box machine. 1,696,204; Dec. 25.
La Bombard, Leon E., and M. H. Sidebotham, assignors to Specialty Automatic Machine Company, Chelsea, Mass. Sanitary napkin. 1,696,205; Dec. 25.
Labombarde, Harold S., Nashua, N. H. Method of and machine for waxing blanks. 1,696,894; Dec. 25.
Lamie, Ralph D. (See Reed, H. S., and Lamie.)
Lane, Francis, Brierley Hill, and W. A. Machin, Birmingham, England. Elevator system and apparatus in connection therewith. 1,696,309; Dec. 25.
Lang, Charles F., Chicago, Ill. Printing press. 1,696,770; Dec. 25.
Lange, Henry J., Lorain, Ohio. Water heater. 1,696,206; Dec. 25.
Langherst, Fred A., Wexford, Pa. Fluid and gas trap. 1,696,492; Dec. 25.
Lapierre, George J., Pawtucket, and T. A. Gilligan, Providence; said Gilligan assignor of one-twentieth to A. P. Bonin, Pawtucket, one-tenth to J. C. Marx, Providence, one-twentieth to L. J. G. Martelle, L. McKenna, and L. V. Boyle, Pawtucket, and one-twentieth to J. W. Plante and E. Plante, Woonsocket, R. I. Automobile license-plate holder. 1,696,804; Dec. 25.
Larkin, David, St. Louis, Mo. Pipe fitting. 1,696,207; Dec. 25.
Larson, Anna J., Naugatuck, Conn. Pincushion for sewing machines. 1,696,771; Dec. 25.
Latta, William, Evart, Mich., assignor to American Logging Tool Co. Peavey. 1,696,852; Dec. 25.
Lauria, Carmelo, New York, N. Y. Electrically-displayed writing apparatus. 1,696,548; Dec. 25.
Leckie, Herbert V., and S. A. North, Bridgeport, Conn., assignors to Remington Arms Company, Inc. Annealing apparatus. 1,696,886; Dec. 25.
Ledwinka, Joseph, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Door structure for automobile bodies. 1,696,310; Dec. 25.
Lee, Gordon, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve for percussive tools. 1,696,311; Dec. 25.
Lee, John H. (See Martin, William C., assignor.)
Lehman, Arthur J., Cannelton, Ind. Chair. Des. 77,322; Dec. 25.
Lehr, Charles E., Bethlehem, Pa., assignor to Bethlehem Steel Company. Continuous heating furnace. 1,696,805; Dec. 25.
Lehr, Charles E., assignor to Bethlehem Steel Company, Bethlehem, Pa. Device for treating rods. 1,696,806; Dec. 25.
Lenert, Willy, Chicago, Ill. Airplane. 1,696,493; Dec. 25.
Lethander, Oscar L., Chicago, Ill. Swinging seat. 1,696,312; Dec. 25.
Leutz, Ferdinand, Hebron, N. Dak. Automobile seat hinge. 1,696,685; Dec. 25.
Lewis, Ernest C., Meriden, assignor to The Tubular Products Company, Southington, Conn. Ash receptacle or similar article. Des. 77,323; Dec. 25.
Lewis, Ernest C., Meriden, assignor to The Tubular Products Company, Southington, Conn. Ash receptacle or analogous article. Des. 77,324; Dec. 25.
Lewis-Shepard Company. (See Shepard, F. J., jr., and Warshaw, assignors.)
Lewis, William, Vancouver, British Columbia, Canada. Deinking process and means for performing same. 1,696,639; Dec. 25.
Liddell, Robert P. F., New York, N. Y., assignor, by mesne assignments, to Central Union Trust Company of New York, trustee. Filter. 1,696,313; Dec. 25.
Lindroth, Gerald J. (See Hall, E. A., and Lindroth.)
Lindsay, Donald E., Springfield, assignor to Murlin Manufacturing Company, Incorporated, Philadelphia, Pa. Lantern. 1,696,244; Dec. 25.
Line Material Company. (See Kyle, William D., assignor.)
Lippert, Leo W., Chippewa Falls, Wis. Tool for assembling chain links. 1,696,578; Dec. 25.
Locke Insulator Corporation. (See Plimpton, Bentley A., assignor.)
Lockit Cap Company. (See Filer, Lou C., assignor.)
Lotsch, John L. (See Strindberg, Rickard, assignor.)
Low, Wilson H. (See Black, J. C., and Low.)
Lowry, Henry L., Morrill, Kans. Vending machine. 1,696,494; Dec. 25.
Lowry, Horace, et al. (See Smith, William J., assignor.)
Lowthrop, James W., Lawrenceburg, Tenn. Dishwasher. 1,696,640; Dec. 25.
Lübke, Aloys, Altena, Germany. Air blower for dental purposes. 1,696,440; Dec. 25.
Ludwig, Otto R., Garvin, Minn. Folding trunk. 1,696,853; Dec. 25.
Ludwig, Otto R., Garvin, Minn. Corn ventilating and drying device. 1,696,854; Dec. 25.
Lundberg, Elof K. H., Saltsjobaden, assignor to Sesam Aktiebolag, Stockholm, Sweden. Water-closet. 1,696,855; Dec. 25.
Lundeen, August A., Lynbrook, N. Y. Jar cap. 1,696,719; Dec. 25.
Lyhne, Anker S., Bridgeport, Conn. Flash light. 1,696,720; Dec. 25.
Lyman, Kenneth E., assignor to Bendix Brake Company, Chicago, Ill. Brake mechanism. 1,696,314; Dec. 25.
Mabbs, J. M. (See Blanchard, Julius M., assignor.)
Machin, William A. (See Lane, F., and Machin.)
Mackintosh, Eric V., New Malden, and C. French, Hampton Wick, Kingston-on-Thames, England. Diaphragm for telephone instruments. 1,696,807; Dec. 25.
Madsen, George E., Weston, Iowa. Train-order-hoop holder. 1,696,279; Dec. 25.
Maguire, Sam F., et al. (See Mullins, Ed, assignor.)
Maguth, Michael J., Carlstadt, N. J. Feeding mechanism. 1,696,549; Dec. 25.
Malling, Malte J., Grand Rapids, Mich. Electric appliance. 1,696,495; Dec. 25.
Malone, Adolph W., Fillmore, Utah, assignor of one-third to A. H. Vestal, Anderson, Ind., and one-third to E. S. Healy, New York, N. Y. Pole. 1,696,772; Dec. 25.
Malone, Adolph W., Fillmore, Utah, assignor of one-third to A. H. Vestal, Anderson, Ind., and one-third to E. S. Healy, New York, N. Y. Pole. 1,696,773; Dec. 25.
Manly, Fred G., assignor, by mesne assignments, to G. I. and H. Goldwyn, Chicago, Ill., copartners doing business as Goldwyn Brothers. Folding cot. 1,696,245; Dec. 25.
Mann, Charles W., Los Angeles, Calif., and A. G. Galloway, Washington, D. C. Cooling of fruits and vegetables in refrigerator cars. 1,696,441; Dec. 25.
Mansure, E. L., Company. (See Shults, Herbert O., assignor.)



Manzel, Charles W., Buffalo, N. Y., assignor to Alemite Manufacturing Corporation, Chicago, Ill. Lubricating gun. 1,696,497; Dec. 25.
Marcoux, Arcade, New Bedford, Mass. Clothes returner for ironing machines. 1,696,609; Dec. 25.
Marshall, George G., Cleveland, Ohio. Air-regulating device for automobile radiators. 1,696,208; Dec. 25.
Martelle, Louis J. G., et al. (See Lapierre, G. J., and Gilligan, assignor.)
Martin, Emile, Grenoble, France. Self-feeding lubricator. 1,696,774; Dec. 25.
Martin, William C., Chicago, assignor of one-fifth to J. H. Lee, Oak Park, Ill. Wheel construction. 1,696,405; Dec. 25.
Martindale, Homer D., Middletown, assignor, by mesne assignments, to The Black-Clawson Company, Hamilton, Ohio. Jordan-engine shell lining. 1,696,641; Dec. 25.
Martinet, Guy M. (See Krell, G., and Martinet.)
Martz, Charles C., assignor to Sayford Paper Specialty Company, Vineland, N. J. Sanitary headrest cover. 1,696,775; Dec. 25.
Marx, Julian C., et al. (See Lapierre, G. J., and Gilligan, assignor.)
Masley, Frank S., and A. P. Wasil, Homestead, Pa. Radio tube socket. 1,696,406; Dec. 25.
Massa, Robert F., assignor to Carbide & Carbon Chemicals Corporation, New York, N. Y. Refrigerant lubricant and lubricating refrigerating machinery. 1,696,642; Dec. 25.
Massey, John F., Chicago, Ill. Window. 1,696,498; Dec. 25.
Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. 1,696,246; Dec. 25.
Mathes, Robert C., Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Wave transmission system. 1,696,315; Dec. 25.
Matson, Donald F., Monessen, Pa. Card. 1,696,808; Dec. 25.
Matthael, Frederick C. (See Snell, Samuel A., assignor.)
Mattingly Automatic Valve Company. (See Mattingly, Charles F., assignor.)
Mattingly, Charles F., assignor to Mattingly Automatic Valve Company, St. Louis, Mo. Master cylinder for hydraulic brakes. 1,696,721; Dec. 25.
May Hosiery Mills. (See Perry, Napoleon J., assignor.)
McArthur R., Gary, Ind., assignor to American Sheet and Tin Plate Company, Pittsburgh, Pa. Apparatus for crowning annealing boxes. 1,696,686; Dec. 25.
McCarty, Richard J., jr., Bethlehem, Pa., assignor to Bethlehem Steel Company. Auxiliary locomotive. 1,696,610; Dec. 25.
McCauley, Charles G., Jacksonville, Fla. Rail bond. 1,696,316; Dec. 25.
McDonald, Gordon R., Schenectady, N. Y., assignor to General Electric Company. Protective device. 1,696,611; Dec. 25.
McDonell, Malcolm A., Cincinnati, Ohio. Season-greeting frame. 1,696,407; Dec. 25.
McKay, Malcolm A., Kansas City, Mo., and E. E. Doudna, Kansas City, Kans. Automobile lock. 1,696,278; Dec. 25.
McKenna, Leo, et al. (See Lapierre, G. J., and Gilligan, assignors.)
McMahon, William S., Malden, Mass. Game. 1,696,408; Dec. 25.
McManama, John W., Waltham, Mass. Railroad tie. 1,696,247; Dec. 25.
McMillan, Howard O., Minneapolis, Minn. Column clamp for castings. Re17,170; Dec. 25.
McMurdo, Percy F., San Francisco, Calif. Apparatus for surgical uses. 1,696,496; Dec. 25.
Mealer, Earl W. (See Pool, W. R., and Mealer.)
Meiklejohn, John W., Pawtucket, R. I. Trouser-supporting device. 1,696,809; Dec. 25.
Menge, Sidney L., New Orleans, La. Low-lift pump. 1,696,776; Dec. 25.
Mercury Mills, Limited. (See Duncan, John A., assignor.)
Mergott, J. E., Co. (See Hiering, William C., assignor.)
Merrimack Manufacturing Company. (See Dick, Hugo P., assignor.)
Messmer, Charles A., jr., St. Louis, Mo. Die. 1,696,442; Dec. 25.
Meyer, Franz, assignor to the firm Carl Zeiss, Jena, Germany. Holder for arc-lamp carbons. 1,696,777; Dec. 25.
Meyer, Peter, Newark, N. J. Machine for drilling, tapping, and the like. 1,696,550; Dec. 25.
Michaelis, Frederick H., Kansas City, Mo. Wall construction for bathrooms. 1,696,443; Dec. 25.
Midwest Piping & Supply Company. (See Fantz, Fred C., assignor.)
Mieg, Walter, and A. Job, Elberfeld, Germany, assignor to Grasselli Dyestuff Corporation, New York, N. Y. Monoamino-diphthaloyl acridones and preparing the same. 1,696,499; Dec. 25.
Miehle, Arthur J., Chicago, Ill. Pipe wrench. 1,696,722; Dec. 25.
Miller, Edwin S., and F. A. Haist, Buffalo, N. Y., assignors to The Keystone Mfg. Co. Holder for socket-wrench sets. 1,696,444; Dec. 25.
Miller, William E., Yonkers, N. Y. Garment-hanger continuous support. 1,696,579; Dec. 25.
Milliken, Foster, Lawhence, N. Y., assignor to Milliken Valve Corporation. Lubricated valve. 1,696,723; Dec. 25.



Milliken Valve Corporation. (See Milliken, Foster, assignor.)
Millner, T. W., et al. (See Dokkenwadel, Frederick G., assignor.)
Miner, W. H., Inc. (See Fuchs, Henry, assignor.)
Miner, W. H., Inc. (See Geiger, William A., assignor.)
Miner, W. H., Inc. (See Haseltine, Stacy B., assignor.)
Miner, W. H., Inc. (See O'Connor, John F., assignor.)
Mitchell, John C. (See Heller, H., and Mitchell.)
Mond, Albert, London, England. Radiator for motor cars and the like. 1,696,810; Dec. 25.
Moore Brothers Company. (See Dibble, Claude M., assignor.)
Moran, Martin F., Nekoma, Kans. Weed exterminator. 1,696,856; Dec. 25.
Morden, George W., and M. Weber, Los Angeles, Calif. Bag holder. 1,696,551; Dec. 25.
Morgan, Lon P. and M. C., Chicago, Ill. Lingerie clasp. 1,696,580; Dec. 25.
Morgan, Mae C. (See Morgan, Lon P. and M. C.)
Morris, Charles E., Leavenworth, Kans. Carrousel. 1,696,500; Dec. 25.
Morton, Edmund R., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Circuits for synchronous motors. 1,696,248; Dec. 25.
Mouillefarine, André, Paris, France. Dielectric substance and manufacturing same. 1,696,501; Dec. 25.
Mueller, Bruno A. (See Garankin, Theodore P., assignor.)
Muller, Wolf J., H. Carstens, and J. Drucker, Leverkusen, near Cologne-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Extraction and drying of jellies. 1,696,358; Dec. 25.
Mullins, Arch, et al. (See Mullins, Ed, assignor.)
Mullins, Ed, Cincinnati, Ohio, assignor of one-third to A. Mullins, Latonia, and one-third to S. F. Maguire, Louisville, Ky. Rail clamp. 1,696,724; Dec. 25.
Murlin Manufacturing Company. (See Lindsay, Donald E., assignor.)
Murray, Thomas E., Brooklyn, N. Y. Drum, pipe, fittings, etc. 1,696,725; Dec. 25.
Narbo, Martin, Brooklyn, N. Y. Dispensing faucet. 1,696,687; Dec. 25.
Nash Engineering Company. (See Jennings, Irving C., assignor.)
National Carbon Company et al. (See Alschuler, Ernest, assignor.)
National Fabric and Finishing Company. (See Siracusano, Louis, assignor.)
Nelson, Cecil O., Minneapolis, Minn. Game-playing machine. 1,696,359; Dec. 25.
New Haven Clock Co., The. (See Whitehead, Richard H., assignor.)
Newhouse, Ray C., Chicago, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Commintor. 1,696,857; Dec. 25.
New Jersey Machine Corporation. (See Feybusch, M., and Fleischer, assignors.)
Newman, Harry, Newark, N. J. Bottle. Des. 77,326; Dec. 25.
Newpher, Charles F., Shaker Heights, assignor to The Bourne-Fuller Company, Cleveland, Ohio. Machine for making hot-pressed nuts. 1,696,887; Dec. 25.
Nichols, Harold W., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Antenna system. 1,696,249; Dec. 25.
Nisbet, Edward A., assignor to Invincible Vacuum Cleaner Manufacturing Company, Pittsburgh, Pa. Suction cleaner tool. 1,696,811; Dec. 25.
Nordstrom Merco Valve Company. (See Nordstrom, Sven J., assignor.)
Nordstrom, Sven J., Oakland, assignor to Merco Nordstrom Valve Company, San Francisco, Calif. Valve. 1,696,726; Dec. 25.
Norris, Wilbur C. (See Barney, William R., assignor.)
North, Samuel A. (See Leckie, H. V., and North.)
Norton, Frank W., Chicago, Ill. Lamp. 1,696,648; Dec. 25.
Norwood, Harry G., Baltimore, Md., assignor to American Dairy Supply Company, Washington, D. C. Wrapper. 1,696,445; Dec. 25.
Nulty, Joseph J. (See Hesskew, W. R., and Nulty.)
Nygaard, Oscar, Saugus, assignor to Bernitz Furnace Appliance Company, Boston, Mass. Brick for furnace-wall construction. 1,696,813; Dec. 25.
Nygaard, Oscar, Saugus, and B. H. Snow, West Medford, assignors to Bernitz Furnace Appliance Company, Boston, Mass. Furnace wall and brick therefor. 1,696,812; Dec. 25.
O. K. Playing Card Company. (See Kubatzky, Otto, assignor.)
Oakland California Towel Company. (See Trewhitt, J. E., and Hillery, assignors.)
O'Boyle, William, Chicago, Ill. News stand with adjustable top. 1,696,317; Dec. 25.
O'Connor, John F., Chicago, Ill., assignor, by mesne assignments, to W. H. Miner, Inc. Side bearing for railway cars. 1,696,318; Dec. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,696,319; Dec. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 1,696,320; Dec. 25.

O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Journal-box-aligning device. 1,696,321; Dec. 25.
O'Connor, John F., assignor to W. H. Miner, Inc., Chicago, Ill. Railway-car truck. 1,696,322; Dec. 25.
O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Printing machine. 1,696,280; Dec. 25.
O'Hara, Skidmore, assignor to O'Hara Waltham Company, Waltham, Mass. Printing machine. 1,696,281; Dec. 25.
O'Hara Waltham Company. (See O'Hara, Skidmore, assignor.)
Olmazu, Nicholas, New York, N. Y. Pocket clothesbrush. 1,696,727; Dec. 25.
Oreck, James. (See Sweetnam, G. E., and Oreck.)
Org, Hans L., New York, N. Y. Carpenter's plane. 1,696,552; Dec. 25.
Osbrink, Raymond H. (See Cochran, William F., assignor.)
Ostromislensky, Iwan, New York, N. Y., assignor to Revere Rubber Company, Chelsea, Mass. Vulcanizing rubber and products obtained thereby. 1,696,409; Dec. 25.
Otis, Albert N., and C. L. Ipsen, Schenectady, N. Y., assignors to General Electric Company. Electric furnace. 1,696,728; Dec. 25.
Otto, Carl, Essen-Ruhr, Germany. Directly producing ammonia. 1,696,446; Dec. 25.
Owen, Henry A., assignor to Whitin Machine Works, Whitinsville, Mass. Drafting system. 1,696,553; Dec. 25.
Paddleford, George E. (See Haynes, H. S., and Alexander, assignors.)
Palm, John V. O., assignor, by mesne assignments, to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Thermostat control valve for cooling systems. 1,696,410; Dec. 25.
Palmer, Harry A., Dorchester, assignor to Palmer Inventions, Inc., Boston, Mass. Air-cooled piston construction. 1,696,858; Dec. 25.
Palmer Inventions, Inc. (See Palmer, Harry A., assignor.)
Palmer, William L., Long Beach, assignor of one-half to Regan Forge & Engineering Company, San Pedro, Calif. Apparatus for dehydrating crude oils. 1,696,859; Dec. 25.
Pan American Petroleum Company. (See Black, J. C., and Low, assignors.)
Parsons, Winslow A., Wellesley, Mass., assignor to Richmond Lace Works, Inc., Alton, R. I. Lace. Des. 77,327; Dec. 25.
Pascoo, Alex., Bronx, N. Y. Honing and stropping device. 1,696,778; Dec. 25.
Patrick, Isaac, Jamaica, N. Y. Composite blade for scissors. 1,696,323; Dec. 25.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Catalytic and adsorbent gel. 1,696,644; Dec. 25.
Patrick, Walter A., assignor to The Silica Gel Corporation, Baltimore, Md. Catalytic and adsorbent gel. 1,696,645; Dec. 25.
Patterson, Elam D., Coshocton, Ohio, assignor to James B. Clow and Sons, Chicago, Ill. Machine for ramming molds and the like. 1,696,250; Dec. 25.
Paulson, Charles J., Brooklyn, N. Y. Delivery apparatus. 1,696,447; Dec. 25.
Pearne, Frank D., deceased, Chicago, Ill.; M. K. Pearne, executrix. Radiotransformer. 1,696,860; Dec. 25.
Pearne, Martha K., executrix. (See Pearne, Frank D.)
Peck, Adolph C., Sandusky, Ohio. Shielding for radio apparatus. 1,696,411; Dec. 25.
Peller, Karl E., West Hartford, assignor to Hartford-Empire Company, Hartford, Conn. Mold for high-temperature casting of refractory bodies. 1,696,688; Dec. 25.
Penney, Harold D., Pelham, assignor to A. G. Spalding & Bros., New York, N. Y. Manufacturing racket frames. 1,696,251; Dec. 25.
Perry, Napoleon J., assignor to May Hosiery Mills, Nashville, Tenn. Knitting machine. 1,696,282; Dec. 25.
Peterson, Eric S. (See Gaidl, A., and Peterson.)
Peterson, Thomas A., Onalaska, Wash. Log-sizing mechanism. 1,696,502; Dec. 25.
Petrelli, Joseph V., New Rochelle, assignor to Tuttle & Bailey Manufacturing Company, New York, N. Y. Register. 1,696,252; Dec. 25.
Pettus, John M., Bell, Calif. Yieldable bulb-socket support. 1,696,504; Dec. 25.
Peyser, Joseph, Mount Vernon, N. Y. Speed accelerator for traveling containers or bodies. 1,696,360; Dec. 25.
Pfeiffer, Charles G., assignor to Specialty Engineering Company, Philadelphia, Pa. Material-handling apparatus. 1,696,780; Dec. 25.
Pfeil, Philip H., Chicago Heights, Ill. Antiskid chain. 1,696,448; Dec. 25.
Pflager, Harry M., assignor to Commonwealth Steel Company, St. Louis, Mo. Booster-motor suspensions. 1,696,324; Dec. 25.
Phelps, Albert W., Heber, Calif. Sizing apparatus for fruit, melons, vegetables, and the like. 1,696,554; Dec. 25.
Phillco, Leigh H. (See Ashley, C. H., and Phillco.)
Phillips, Alfred T., Norwood, Ohio. Nail driver. 1,696,781; Dec. 25.
Phillips, Joseph, Guadalupe, Calif. Adjustable grouser wheel. 1,696,449; Dec. 25.
Photostat Corporation. (See Caps, Arthur W., assignor.)
Pickard, Greenleaf W., Newton Center, assignor to Wireless Specialty Apparatus Company, Boston, Mass. High-tension electrical condenser. 1,696,895; Dec. 25.
Pickup, George E., assignor to The Wehrle Company, Newark, Ohio. Heater. Des. 77,328; Dec. 25.
Pinckney, William E., Portland, Oreg. Washing machine. 1,696,253; Dec. 25.
Pinell, Walter, assignor to Siemens & Halske Aktiengesellschaft Wernerwerk. Siemensstadt, near Berlin, Germany. Automatic telephone system. 1,696,254; Dec. 25.
Pittsburgh Forgings Company. (See Stocking, Walter, H., assignor.)
Plante, Emma, et al. (See Lapierre, G. J., and Gilligan, assignor.)
Plante, Joseph W., et al. (See Lapierre, G. J., and Gilligan, assignor.)
Plimpton, Bentley A., assignor to Locke Insulator Corporation, Baltimore, Md. Insulator-supporting pin. 1,696,861; Dec. 25.
Podel, Abraham, assignor to Anchor Cap and Closure Corporation, Long Island City, N. Y. Closure and method of sealing. 1,696,555; Dec. 25.
Poehls, Richard A., La Moure, N. Dak. Milking stool and pail holder. 1,696,689; Dec. 25.
Pool, William R., Ennis, and E. W. Mealer, Dallas, Tex. Railroad-washout safety device. 1,696,209; Dec. 25.
Porter, Harry F., Trenton, N. J., assignor of one-half to C. D. Ehret, Philadelphia, Pa. Current-rectifying system. 1,696,210; Dec. 25.
Porter, James R., Wantage, England. Aeronautical machine. 1,696,581; Dec. 25.
Potts, Howard W., San Francisco, Calif. Collar band. 1,696,450; Dec. 25.
Pratt, Best, Chicago, Ill. Angle cock. 1,696,283; Dec. 25.
Preisser, Arthur R., Dallas, Tex. Valve stem for inner tubes of pneumatic tires. 1,696,211; Dec. 25.
Prentice, Alexander N. (See Williams, Mulford M., assignor.)
Price, Herbert T., Burwood, Sydney, New South Wales, Australia. Pulp board and manufacturing the same. 1,696,896; Dec. 25.
Price, Thornton W., New Brunswick, N. J. Ceiling bed. 1,696,412; Dec. 25.
Price-Williams, Vernon, Miami, Fla. Water heater. 1,696,828; Dec. 25.
Priest, Harry, Poughkeepsie, N. Y. Bearing for lawn mowers and the like. 1,696,325; Dec. 25.
Primm, Julian B., et al. (See Bowman, Lee M., assignor.)
Prince, David C., Schenectady, N. Y., assignor to General Electric Company. Electrical apparatus. 1,696,862; Dec. 25.
Prosperity Company Inc., The. (See Davis, Ernest, assignor.)
Prosperity Company Inc., The. (See Steele, Harry A., assignor.)
Racine Confectioners Machinery Company. (See Hislop, Robert S., assignor.)
Rackham, George J., assignor to Yellow Coach Manufacturing Company, Chicago, Ill. Brake for vehicles. 1,696,729; Dec. 25.
Radio Frequency Laboratories, Incorporated. (See Seabury, Richard W., assignor.)
Randall, Arthur F., Boston, Mass. Loud speaker. 1,696,863; Dec. 25.
Rankin, William A., assignor to Robeson-Rochester Corporation, Rochester, N. Y. Percolator. 1,696,451; Dec. 25.
Rankin, William K., Schenectady, N. Y., assignor to General Electric Company. Electric-switch-operating mechanism. 1,696,582; Dec. 25.
Raymond, Fairfield E., assignor to Crosby Steam Gage and Valve Co., Boston, Mass. Valve. 1,696,452; Dec. 25.
Reece Button Hole Machine Company, The. (See Klewicz, John, assignor.)
Reed, Harry S., East Lansing, and R. D. Lamie, Lansing, Mich. Distilling shale. 1,696,730; Dec. 25.
Reed, Harry S., East Lansing, and R. D. Lamie, Lansing, Mich. Apparatus and process for utilizing coal. 1,696,731; Dec. 25.
Reed, Leon H. (See Jandus, H. S., and Reed.)
Regal Shoe Company. (See Bliss, Elmer J., assignor.)
Regan Forge & Engineering Company. (See Palmer, William L., assignor.)
Reich, Frederick, Elizabeth, N. J. Compensating means for valve-operating connections. 1,696,361; Dec. 25.
Reichstein, Thadeus. (See Staudinger, H., and Reichstein.)
Reid, Charles T., et al., administrators. (See Reid, James.)
Reid, Emma F., et al., administrators. (See Reid, James.)
Reid, James, deceased, Syracuse, N. Y., E. F. Reid and C. T. Reid, administrators. Apparatus for machining radiators and the like. 1,696,453; Dec. 25.
Reliance Electric & Engineering Co., The. (See Corey, James W., assignor.)
Reliance Fireproof Door Co. (See Zenker, Oscar E., assignor.)
Remington Arms Company. (See Leckie, H. V., and North, assignors.)
Remington Typewriter Company. (See Barney, Edwin E., assignor.)



Renault, Louis. (See Salves, Leon, assignor.)
Reserve Holding Company. (See Gould, Roy F., assignor.)
Revere Rubber Company. (See Fraley, Clifford A., assignor.)
Revere Rubber Company. (See Ostromislensky, Iwan, assignor.)
Reyburn, John R., Fairfield, Conn., assignor to American Chain Company, Inc. Cross chain for vehicle nonskid devices. 1,696,255; Dec. 25.
Rice, Chester W., Schenectady, N. Y., assignor to General Electric Company. Cooling system for dynamo-electric machines. 1,696,612; Dec. 25.
Rice, Wayland W., assignor to United States Gutta Percha Paint Company, Providence, R. I. Packing case or crate. 1,696,413; Dec. 25.
Richard, Clement C. (See Richard, Otis K. and C. C.)
Richard, Otis K. and C. C., Detroit, Mich. Wheel-anchoring device. 1,696,732; Dec. 25.
Richmond Lace Works, Inc. (See Parsons, Winslow A., assignor.)
Ridgely Heater Company. (See Ridgely, William W., assignor.)
Ridgely, William W., Syracuse, N. Y., assignor, by mesne assignments, to Ridgely Heater Company, Scranton, Pa. Heater. 1,696,454; Dec. 25.
Rile, Frederick C., Chicago, Ill. Fastening device. 1,696,284; Dec. 25.
Rile, Frederick C., Chicago, Ill. Fastening device. 1,696,285; Dec. 25.
Rindsberg, Harry D., assignor to H. J. Hater, Cincinnati, Ohio. Mold. 1,696,690; Dec. 25.
Riter-Conley Manufacturing Company. (See Hill, Harold O., assignor.)
Rittenhouse, Arthur E., Honeoye Falls, N. Y. Combined transformer and conduit-box cover. Re17,171; Dec. 25.
Riverside Sheet Metal Works. (See Button, William S., assignor.)
Roberts, Carl W., Parsons, Kans. Clothes and fabric cleaning device. 1,696,414; Dec. 15.
Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. Voltage-balance regulator. 1,696,415; Dec. 25.
Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. Voltage regulator. 1,696,416; Dec. 25.
Roberts, Leland C., Towaco, N. J., assignor to American Telephone and Telegraph Company. Voltage regulator. 1,696,417; Dec. 25.
Roberts, Louis G. (See Sommaripa, A., and Roberts.)
Robertson, Richard V., Wauneta, Nebr. Potato-planting attachment for listers. 1,696,864; Dec. 25.
Robeson-Rochester Corporation. (See Rankin, William A., assignor.)
Rochman, Tobias, New York, N. Y. Necktie. 1,696,691; Dec. 25.
Rock, George L., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Spool and manufacturing spools. 1,696,256; Dec. 25.
Rock, George L., Cicero, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling elements of articles. 1,696,257; Dec. 25.
Roethlisberger, Emil, New York, N. Y. Multiple-plug key. 1,696,326; Dec. 25.
Rogers, Price L., Narberth, and L. P. Holladay, jr., Chestnut Hill, Pa. Roof for cars. 1,696,692; Dec. 25.
Röhre, Kurt. (See Griessbach, R., and Röhre.)
Rosenberger, Arthur W., Broadway, Va. Coop or crate. 1,696,693; Dec. 25.
Rosenburgh, Durwood D., assignor to Taylor Instrument Companies, Rochester, N. Y. Pressure gauge. 1,696,814; Dec. 25.
Rosentreter, Albert J., Boonton, assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Elevator-door mechanism. 1,696,327; Dec. 25.
Rosentreter, Albert J., Boonton, assignor to E. Zabriskie, Maplewood, N. J., and F. E. Hutchins, New York, N. Y. Safety mechanism for elevator-shaft doors. 1,696,328; Dec. 25.
Ross Tacony Crucible Company. (See Bacon Charles C., assignor.)
Roth, Thomas P., Louisville, Ky. Tube and tire saver. 1,696,503; Dec. 25.
Rubber Service Laboratories Co. The. (See Hand, Carl N., assignor.)
Rupley, William E., Los Angeles, assignor to Western Pipe & Steel Company of California, San Francisco, Calif. Circular-seam-welding apparatus. 1,696,455; Dec. 25.
Saatman, Walter A., Roslyn, Pa. Glue-applying roll. 1,696,329; Dec. 25.
St. John, Henry W., Brightwaters, N. Y. Golf accessory. 1,696,817; Dec. 25.
Salves, Leon, assignor to L. Renault, Billancourt, France. Manufacturing of valves and like devices. 1,696,646; Dec. 25.
Sagendorph, William K., executor. (See Hopkins, George F.)
Sander, Herman J., and A. J. Breister, Fond du Lac, Wis. Playing-card holder. 1,696,647; Dec. 25.
Sandusky Tool Corporation. (See Schwer, Wilbert G., assignor.)
Sargent, Howard R., and F. C. De Reamer, Bridgeport, Conn., assignors to General Electric Company. Coupling for electric circuits. 1,696,583; Dec. 25.
Sayford Paper Speciality Company. (See Martz, Charles C., assignor.)
Schafer, John P., Richmond Hill, assignor to Western Electric Company, Incorporated, New York, N. Y. Selective translation system. 7,696,212; Dec. 25.
Schellenger, Newton C., assignor to Chicago Telephone Supply Company, Elkhart, Ind. Jack. 1,696,865; Dec. 25.
Schmied, James W., West Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Carrier-wave communication. 1,696,258; Dec. 25.
Schoell, Reinhold, Kelsey City, Pa. Transmission gear. 1,696,331; Dec. 25.
Schoeller, Walter, Berlin-Westend, and H. Jordon, Berlin-Steglitz, assignors to the firm: Chemische Fabrik auf Actien, vorm E. Schering, Berlin, Germany. Making alkyl isoalkyl cyclohexanols. 1,696,782; Dec. 25.
Schoenhut, Harry E., Philadelphia, Pa., assignor to G. E. Studdy, London, England. Toy animal figure. Des. 77,329; Dec. 25.
Schofer, Fred, Bronx, N. Y. Napkin stand. 1,696,556; Dec. 25.
Schofield, Edgar, New York, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Cap and package. 1,696,330; Dec. 25.
Schornack, James, Belleville, N. J. Doorcheck. 1,696,701; Dec. 25.
Schrader, Lloyd F., Richmond Hill, assignor to Foundation Oven Corporation, New York, N. Y. Pusher track for coke ovens. 1,696,259; Dec. 25.
Schraegle, August F. (See Geiger, E. A., Schraegle, and Jennings.)
Schultz, Frank D., assignor of one-half to A. Therry, Seattle, Wash. Portable burning apparatus. 1,696,888; Dec. 25.
Schulz, Emil E., McConnell, Ill. Combined barrel cover and pail support. 1,696,418; Dec. 25.
Schwarzenbach Huber Co., The. (See Coene, Emile, assignor.)
Schwenzer, George V., Brooklyn, N. Y. Bell-ringing device. 1,696,648; Dec. 25.
Schwer, Wilbert G., assignor to Sandusky Tool Corporation, Sandusky, Ohio. Plane. 1,696,584; Dec. 25.
Scott, Rumsey W., Montclair, N. J., assignor to American Cable Company, Inc. Attachment for wire rope. 1,696,889; Dec. 25.
Scovill Manufacturing Company. (See Simons, Ernest D., assignor.)
Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Danville, Ill. Oil pump. 1,696,733; Dec. 25.
Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Danville, Ill. Oil pump. 1,696,734; Dec. 25.
Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Danville, Ill. Oil filter. 1,696,735; Dec. 25.
Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Danville, Ill. Telescopic oiler. 1,696,736; Dec. 25.
Scoville, Eugene M., Milwaukee, Wis., assignor of one-half to F. L. Swanberg, Pittsburgh, Pa. Grease cup. 1,696,737; Dec. 25.
Seabury, Richard W., assignor to Radio Frequency Laboratories, Incorporated, Boonton, N. J. Socket for radio instruments. 1,696,649; Dec. 25.
Seaman, William A., Saginaw, Mich. Push-rod-operating mechanism. 1,696,866; Dec. 25.
Sebring, James A., assignor, by mesne assignments, to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio. Telescoping cabinet cover. 1,696,456; Dec. 25.
Seelbach, K. C., Company. (See Ern, August F., assignor.)
Segoria, Martin, Vallejo, Calif. Treating leather. 1,696,867; Dec. 25.
Selden Company, The. (See Jaeger, A. O., and Bertsch, assignors.)
Selective Automatic Manufacturing Corporation. (See Cutler, William C., assignor.)
Senesac, Telesphore J., Chicago, Ill. Concrete form. 1,696,694; Dec. 23.
Senesac, Telesphore J., Chicago, Ill. Anchor for floor sleepers. 1,696,695; Dec. 25.
Seng Company, The. (See Fox, Martin, assignor.)
Sennett, Mack, Inc. (See Crockett, Ernest J., assignor.)
Sesam Aktiebolag. (See Lundberg, Elof K. H., assignor.)
Settles, Simon G., assignor to H. W. Barden, Seattle, Wash. Sink strainer. 1,696,505; Dec. 25.
Sewell, Benjamin F. B., Chula, Va. Reclining mat. 1,696,362; Dec. 25.
Shanahan, Michael A., Libby, Mont. Ventilating means for boots and shoes. 1,696,457; Dec. 25.
Sheaffer, W. A., Pen Company. (See Sweetnam, G. E., and Oreck, assignors.)
Sheehan, William M., St. Louis, Mo., assignor to Commonwealth Steel Company, Granite City, Ill. Underframe for well cars. 1,696,332; Dec. 25.
Shelton, Harry J., University City, Mo. Crusher. 1,696,213; Dec. 25.
Shepard, Frederick J., jr., Auburndale, and N. Warshaw, Boston, assignors to Lewis-Shepard Company, Watertown, Mass. Platform for use with elevating trucks. 1,696,585; Dec. 25.
Shepherd, Tom L., et al. (See Bowman, Lee M., assignor.)
Sheridan, Francis. (See Stedwell, George W., assignor.)

Shimer, Abraham A., Brunswick, Ga., assignor to Hercules Powder Company, Wilmington, Del. Extracting rosin and turpentine from wood. 1,696,696; Dec. 25.
Shire, Harry L., Detroit, Mich. Electrical instrument. 1,696,333; Dec. 25.
Shire, Harry L., Detroit, Mich. Testing storage batteries. 1,696,334; Dec. 25.
Shore, Morris M., New York, N. Y. Telephone index. 1,696,335; Dec. 25.
Showel, Sam H., McKees Rocks, Pa. Method of and apparatus for supporting the side walls of excavations. 1,696,421; Dec. 25.
Shredded Wheat Company, The. (See Webster, Earl P., assignor.)
Shroyer, Jacob L., Oak Park, assignor to Edison Electric Appliance Company, Incorporated, Chicago, Ill. Toaster. 1,696,613; Dec. 25.
Shults, Herbert O., assignor to E. L. Mansure Company, Chicago, Ill. Upholstery braid. Des. 77,330; Dec. 25.
Sidebotham, Melvin H. (See La Bombard, L. E., and Sidebotham.)
Siemens & Halske Aktiengesellschaft Wernerwerk. (See Pinell, Walter, assignor.)
Silica Gel Corporation, The. (See Patrick, Walter A., assignor.)
Simons, Ernest D., Cheshire, assignor to Scovill Manufacturing Company, Waterbury, Conn. Fastener slide. 1,696,586; Dec. 25.
Simonds Saw and Steel Company. (See Howard, Leslie E., assignor.)
Siracusano, Louis J., Astoria, assignor to National Fabric and Finishing Company, New York, N. Y. Printed textile fabric or the like. Des. 77,331; Dec. 25.
Sisson, Vinton E., assignor, by mesne assignments, to Union Metal Products Company, Chicago, Ill. Corrugated steel end for railway cars. 1,696,650; Dec. 25.
Skertchly, William P., Spondon, near Derby, England, assignor to Celanese Corporation of America. Purification of acetic anhydride. 1,696,803; Dec. 25.
Skinner, Allan D., assignor to Skinner Engine Company, Erie, Pa. Valve. 1,696,808; Dec. 25.
Skinner Engine Company. (See Skinner, Allan D., assignor.)
Skinner Irrigation Company, The. (See Coles, Walter H., assignor.)
Slate, Thomas B., assignor, by mesne assignments, to American Patents Development Corporation, New York, N. Y. Refrigerating apparatus and method. 1,696,651; Dec. 25.
Slick, Edwin E., Pittsburgh, Pa. Goblet or similar article. Des. 77,332; Dec. 25.
Slusser, Lee D., assignor of one-half to G. F. Donart, Ottawa, Ohio. Coin-controlled time switch. 1,696,364; Dec. 25.
Small, Abram, Danvers, Mass. Leather finishing. 1,696,815; Dec. 25.
Smart, Edmund F., Wallsend-on-Tyne, England, assignor of one-half to J. W. Hartley, Brooklyn, N. Y. Auto signal. 1,696,890; Dec. 25.
Smidth, F. L., & Co. (See Treschow, Michael, assignor.)
Smith, Arthur E., Los Angeles, Calif. Closure for collapsible tubes. 1,696,506; Dec. 25.
Smith, Edward W., Philadelphia, Pa. Ejector for molds. 1,696,652; Dec. 25.
Smith, Goodwin B., New York, N. Y. Coin-controlled vending machine. 1,696,365; Dec. 25.
Smith, Joseph L., Ogden, Utah. Combined tent, bed, and case. 1,696,286; Dec. 25.
Smith, L C, & Corona Typewriters Inc. (See Ely, A. B., and Harmon, assignors.)
Smith, Scott V., Bridgeport, Ill. Automatic vacuum-controlled valve. 1,696,366; Dec. 25.
Smith, T. G. (See Ballowe, Leigh M., assignor.)
Smith, William J., St. Paul, assignor of one-third to H. Lowry, Minneapolis, Minn., and one-third to A. L. Drum, Chicago, Ill. Railway brake. 1,696,869; Dec. 25.
Snell, Samuel A., assignor to F. C. Matthael, Detroit, Mich. Heater for automobiles. 1,696,214; Dec. 25.
Snow, Benjamin H. (See Nygaard, O., and Snow.)
Sommaripa, Alexis, Buffalo, N. Y., and L. G. Roberts, Nashua, N. H. Machine for inspecting and bundling cloth. 1,696,287; Dec. 25.
Sommer, William H., Peoria, Ill. Apparatus for pointing wires. 1,696,697; Dec. 25.
Sommer, William H., Peoria, Ill. Pointing and drawing wires. 1,696,698; Dec. 25.
Sommers, Herman J. (See Armstrong, Arthur N., assignor.)
Sosnowski, Julius C., Long Beach, Calif. Speedometer-actuated circuit closer. 1,696,453; Dec. 25.
Southern California Edison Company. (See Frampton, William R., assignor.)
Spalding, A. G., & Bros. (See Penney, Harold D., assignor.)
Spalsbury, Charles B., assignor to Johnson, Stephens & Shinkle Shoe Company, St. Louis, Mo. Shoe manufacture. Re17,172; Dec. 25.
Specialty Automatic Machine Company. (See La Bombard, L. E., and Sidebotham, assignors.)
Specialty Engineering Company. (See Pfeiffer, Charles G., assignor.)
Spencer, Henry J., Waco, Tex. Sliding-door latch. 1,696,870; Dec. 25.
Spiess, George, Leipzig-Plagwitz, Germany. Apparatus for removing sheets from a pile. 1,696,215; Dec. 25.
Standard Sanitary Manufacturing Company. (See Thompson, William O., assignor.)
Stanhope, Benjamin C., Denver, Colo. Shoveling machine. 1,696,216; Dec. 25.
Staudinger, Hermann, Freiburg, Germany, and T. Reichstein, Zurich, Switzerland, assignors to the firm Internationale Nahrungs- und Genussmittel Aktiengesellschaft, Schaffhausen, Germany. Producing artificial coffee aroma. 1,696,419; Dec. 25.
Stedwell, George W., Brooklyn, assignor of one-half to F. Sheridan, New York, N. Y. Liquid-delivery system. 1,696,738; Dec. 25.
Steel, Willard R., Scotia, N. Y., assignor to General Electric Company. Heat-resistant composition suitable for arc deflectors. 1,696,614; Dec. 25.
Steele, Harry A., assignor to The Prosperity Company Inc., Syracuse, N. Y. Spring pad for pressing machines. 1,696,653; Dec. 25.
Steinarson, Sigurd A., Bucksport, Me. Brush attachment. 1,696,816; Dec. 25.
Stem, Isaac F., and J. H. Glaze, Mountain View, Calif. Roller cultivator. 1,696,654; Dec. 25.
Stember, Bernard, New York, N. Y. Leather or similar article. Des. 77,333; Dec. 25.
Stephens, Elton S., Chicago, Ill. Filter. 1,696,367; Dec. 25.
Stephens, William A. (See Huxley, J. H., and Stephens.)
Stevens, B. M., et al. (See Dokkenwadel, Frederick G., assignor.)
Stevenson, William B. (See Kieffer, E. T., and Stevenson.)
Sthamer, Erich M. A., Hamburg, Germany. Foam-producing composition. 1,696,507; Dec. 25.
Stocking, Walter H., assignor to Pittsburgh Forgings Company, Coraopolis, Pa. Reclaiming of worn car axles. 1,696,217; Dec. 25.
Stout, Edward, Burlington, Iowa. Impact recorder. 1,696,420; Dec. 25.
Strand, Harry L., Boston, assignor of one-half to L. F. Emerson, Brookline, Mass. Building block and wall. 1,696,818; Dec. 25.
Strindber, Richard, New York, assignor of one-third to J. L. Lotsch, Brooklyn, N. Y. Internal-combustion engine. 1,696,336; Dec. 25.
Strouse, Louis V., Linwood, N. J. Electrical shifting mechanism for curtains. 1,696,368; Dec. 25.
Studdy, George E. (See Schoenhut, Harry E., assignor.)
Suiter, Harold R., Grand Rapids, Mich. Mechanism for use with articulated mold forms. 1,696,699; Dec. 25.
Suiter, Harold R., Grand Rapids, Mich. Mold-form structure. 1,696,700; Dec. 25.
Sullivan Machinery Company. (See Wyman, Charles W., assignor.)
Summers, Otto M., Dayton, Ohio, assignor, by mesne assignments, to Frigidaire Corporation. Refrigerating apparatus. 1,696,459; Dec. 25.
Supertile Machinery Corporation. (See Flam, Stephen, assignor.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Sutcliffe, Tom, London, England. Capping machine. 1,696,819; Dec. 25.
Swanberg, Floyd L. (See Scoville, Eugene M., assignor.)
Swasey, Carleton F., New Canaan, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Casing and support for electrical apparatus. 1,696,260; Dec. 25.
Sweetnam, George E., and J. Oreck, Chicago, Ill., assignors to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Fountain-pen desk set. 1,696,218; Dec. 25.
Symmes, Ernest M., assignor to Hercules Powder Company, Wilmington, Del. Producing abietic acid esters of polyglycerol. 1,696,337; Dec. 25.
Taylor, Guy B. (See Davis, C. W., and Taylor.)
Taylor Instrument Companies. (See Rosenburgh, Durwood D., assignor.)
Teipel, Joseph, assignor to American Pulverizer Company, St. Louis, Mo. Pulverizing machine. 1,696,219; Dec. 25.
Templeton, John B., Dallas, Tex. Progressive pile-driver support. 1,696,820; Dec. 25.
Teyen, Alfred. (See Teyen, Peter and A.)
Teyen, Peter and A., Pomeroy, Iowa. Poultry-spraying device. 1,696,460; Dec. 25.
Thayer, Eugene A., Urbana, Ill. Prosthetic dentistry. 1,696,422; Dec. 25.
Therry, Albert. (See Schultz, Frank D., assignor.)
Thompson, James H., New Smyrna, Fla. Compression and suction saving construction for piston rings. 1,696,424; Dec. 25.
Thompson, James S., assignor to American Brake Materials Corporation, New York, N. Y. Friction brake. 1,696,821; Dec. 25.
Thompson, William O., assignor to Standard Sanitary Manufacturing Company, Pittsburgh, Pa. Faucet. Des. 77,334; Dec. 25.
Thorburn, Walter, Seattle, Wash. Hand level and angling device. 1,696,508; Dec. 25.
Thorne, Edward, Chicago, Ill., assignor to T. R. Goodlatte & Sons, (Inc.), Delawanna, N. J. Table cover or analogous article. Des. 77,335; Dec. 25.



Thorpe, William, Wellington, New Zealand. Automatic machine for displaying advertisements, posters, pictures, show cards, and the like. 1,696,655; Dec. 25.
Tierney, George G., Minneapolis, Minn. Ventilator. 1,696,423; Dec. 25.
Tillquist Hugo T. (See Isaksson, Carl J. E., assignor.)
Tissler, Josef, Philadelphia, Pa. Electric floor lamp. Des. 77,336; Dec. 25.
Tomlin, Leon A., Baltimore, Md. Safety elevator. 1,696,557; Dec. 25.
Tondreau, Albert W. (See Gage, F. W., and Tondreau.)
Torbet, Mayson W. (See Fitch, F. E., and Torbet.)
Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Pump for molten metal. 1,696,656; Dec. 25.
Townsend, Harry A., Minneapolis, Minn. Blanket holder for hoods of automobiles. 1,696,220; Dec. 25.
Train Control Corporation of America. (See Clifford, Patrick J., assignor.)
Treleaven, Clifford L., Jackson Heights, assignor to Color Cinema Productions, Inc. New York, N. Y. Color photography. 1,696,739; Dec. 25
Treschow, Michael, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Gearing. 1,696,740; Dec. 25.
Tresner, Raymond B., Mabton, Wash. Potato-picking belt. 1,696,509; Dec. 25.
Trewhitt, James E., and P. E. Hillery, assignors to Oakland California Towel Company, Oakland, Calif. Water-softening apparatus. 1,696,369; Dec. 25.
Trogner, Arthur M., Takoma, Md., and T. M. Davis, Washington, D. C., assignors to Wired Radio, Inc., New York, N. Y. Shielded telephone plug. 1,696,657; Dec. 25.
Trombetta, Panfilo, Schenectady, N. Y., assignor to General Electric Company. Electromagnet. 1,696,615; Dec. 25.
Trumble, Milon J., Alhambra, Calif. Cracking hydrocarbons. 1,696,658; Dec. 25.
Tubbs, Earl D., New York, N. Y. Wreath form. 1,696,221; Dec. 25.
Tubular Products Company, The. (See Lewis, Ernest C., assignor.)
Tucker, Joseph B., Long Beach, Calif. Drag-handle catch. 1,696,461; Dec. 25.
Turcott, David, assignor to Yates-American Machine Company, Beloit, Wis. Automatic turning machine. 1,696,425; Dec. 25.
Turner, Jacob, assignor to Turner Manufacturing Company, Chicago, Ill. Mirror frame. Des. 77,337; Dec. 25.
Turner Manufacturing Company. (See Turner, Jacob, assignor.)
Turvene, John C., Dayton, Ohio. Valve-operating mechanism and the like. 1,696,370; Dec. 25.
Tuttle & Bailey Manufacturing Company. (See Petrelli, Joseph V., assignor.)
Tytus, John B., assignor to The American Rolling Mill Company, Middletown, Ohio. Continuous furnace. 1,696,822; Dec. 25.
U S L Battery Corporation. (See Wilbur, Samuel P., assignor.)
Underwood Elliott Fisher Company. (See Helmond, William F., assignor.)
Underwood Elliott Fisher Company. (See Kurowski, Alfred G. F., assignor.)
Underwood, Frank K., Oskaloosa, Iowa. Treeholder. 1,696,288; Dec. 25.
Union Draft Gear Company. (See Cotton, Walter H., assignor.)
Union Metal Products Company. (See Sisson, Vinton E., assignor.)
United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
United States Chain & Forging Company. (See Bremer, Frederick G., assignor.)
United States Gutta Percha Paint Company. (See Rice, Wayland W., assignor.)
United States Gypsum Co., The. (See Hirdsey, Charles R., assignor.)
Van Bourgonle, Constant A., Bergerhout-Antwerp, Belgium. Elastic wheel. 1,696,741; Dec. 25.
Van Nuys, Claude C., Cranford, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Refrigeration. 1,696,558; Dec. 25.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,338; Dec. 25.
Vermillion, Raymond H., Los Angeles, Calif., assignor to H. L. Judd Company, Inc., Wallingford, Conn. Drapery-pole center. Des. 77,339; Dec. 25.
Vestal, Albert H., et al. (See Malone, Adolph W., assignor.)
Victor, John H., Chicago, Ill. Sporting implement. 1,696,462; Dec. 25.
Victor Talking Machine Company. (See Kieffer, E. T., and Stevenson, assignors.)
Vitrefrax Corportion, The. (See Curtis, Thomas S., assignor.)
Von Glahn, Charles H., Brooklyn, N. Y. Cheese slicer. Re17,175; Dec. 25.
Von Sydow, Rudolf W., Glendale, assignor of one-half to E. G. Burghard, Los Angeles, Calif. Bottle cap. 196,742; Dec. 25.
Vrooman, Frank W. (See Harder, D. S., and Vrooman.)
Wackerle, Lewis E., Waukegan, assignor to Chicago Hardware Foundry Company, North Chicago, Ill. Table or stand. 1,696,871; Dec. 25.
Wadsworth, Frank L. O., Pittsburgh, Pa. Temperature control for water heaters. 1,696,222; Dec. 25.
Wadsworth Watch Case Company, The. (See Conant, Arthur P., assignor.)
Wald, Calvin R., Birmingham, Ala. Shaking, rocking, and dumping grate. 1,696,463; Dec. 25.
Wakabayashi, Tatsuo, San Francisco, Calif. Glue dispenser. 1,696,783; Dec. 25.
Walker, Willard R., Syracuse, N. Y. Culinary fixture. 1,696,464; Dec. 25.
Wallace, Clifford E., Dallas, Oreg. Clam digger. 1,696,371; Dec. 25.
Wallace, R., & Sons Mfg. Co. (See Warren, William S., assignor.)
Wallace, William A., Oakland, Calif. Traffic marker. 1,696,510; Dec. 25.
Walley, V. R., et al. (See Dokkenwadel, Frederick G., assignor.)
Walsh, Arthur E., Chicago, Ill. Hair waver. 1,696,823; Dec. 25.
Wanner, Frederick W., St. Louis, Mo. Price marker. 1,696,824; Dec. 25.
Wappler, Frederick C., New York, N. Y. Binding post. 1,696,616; Dec. 25.
Ward, Daisy S., Brooklyn, N. Y. Child's garment. 1,696,559; Dec. 25.
Ward, William C., Jamestown, assignor to The Borden Company, New York, N. Y. Automatic control mechanism. 1,696,659; Dec. 25.
Ware, Walter F., Haddonfield, N. J., assignor to The Walter F. Ware Company. Syringe and medicine dropper. 1,696,250; Dec. 25.
Ware, Walter F., Company, The. (See Ware, Walter F., assignor.)
Warren, William S. Meriden, assignor to R. Wallace & Sons Mfg. Co., Wallingford, Conn. Spoon or similar article. Des. 77,340; Dec. 25.
Warshaw, Nathaniel. (See Shepard, F. J., jr., and Warshaw.)
Wasil, Albert P. (See Masley, F. S., and Wasil.)
Watlington, William H., Denver, Colo. Brake-releasing device. 1,696,702; Dec. 25.
Weber, Martin. (See Morden, G. W., and Weber.)
Weber, Tobias. (See Chase, Hamilton C., assignor.)
Webner, Julius, New York, N. Y. Machine for grinding or cutting stone. 1,696,660; Dec. 25.
Webster, Earl P., assignor to The Shredded Wheat Company, Niagara Falls, N. Y. Driving endless conveyers. 1,696,465; Dec. 25.
Wehrle Company, The. (See Pickup, George E., assignor.)
Weil, Maximilian, New York, N. Y. Acoustic apparatus. 1,696,784; Dec. 25.
Weil, Miximilian, New York, N. Y. Sound-reprodncing apparatus. 1,696,872; Dec. 25.
Weiss, Charles, New York, N. Y. Plate or similar article. Des. 77,341; Dec. 25.
Welch, Alfred F., Fort Wayne, Ind., assignor to General Electric Company. Electroresponsive controlling device. 1,696,617; Dec. 25.
Wells, James M., Salt Lake City, Utah. Waterspout holder. 1,696,426; Dec. 25.
Welty, Peter P., Pandora, Ohio. Latch for sliding doors. 1,696,785; Dec. 25.
Wendt, Bruno. (See Wulff, P., and Wendt.)
Westcott, Jay M., Syracuse, N. Y. Door lock. 1,696,466; Dec. 25.
Western Electric Company. (See Bandur, Adolph F., assignor.)
Western Electric Company. (See Blood, Harold L., assignor.)
Western Electric Company. (See Fay, Joseph W., assignor.)
Western Electric Company. (See Gilbert, John J., assignor.)
Western Electric Company. (See Heising, Raymond A., assignor.)
Western Electric Company. (See Jespersen, Helgo W., assignor.)
Western Electric Company. (See Kendall, Burton W., assignor.)
Western Electric Company. (See Kochendorfer, Frederic S., assignor.)
Western Electric Company. (See Mathes, Robert C., assignor.)
Western Electric Company. (See Nichols, Harold W., assignor.)
Western Electric Company. (See Rock, George L., assignor.)
Western Electric Company. (See Schafer, John P., assignor.)
Western Electric Company. (See Schmied, James W., assignor.)
Western Electric Company. (See Swasey, Carleton F., assignor.)
Western Electric Company. (See Wotton, James A., assignor.)
Western Pipe & Steel Company of California. (See Rupley, William E., assignor.)
Wetherbee, Herbert E., assignor of one-third to R. F. Grant and one-third to H. M. Hanna, Cleveland, Ohio. Treating artificial fuels. 1,696,511; Dec. 25.
Wheelock, Edward E. (See Faubert, H. W., and Wheelock.)
White, John W., Buffalo, N. Y. Fuel pump. 1,696,825; Dec. 25.

White, Louis A., Brooklyn, N. Y. Indicating mechanism. 1,696,512; Dec. 25.
White Motor Company, The. (See Howell, James W., assignor.)
Whitehead, Richard H., assignor to The New Haven Clock Co., New Haven, Conn. Clock case. Des. 77,342; Dec. 25.
Whitehead, Richard H., assignor to The New Haven Clock Co., New Haven, Conn. Clock case. Des. 77,343; Dec. 25.
Whitehead, Thomas C. (See Heideman, Fred J., assignor.)
Whitin Machine Works. (See Owen, Henry A., assignor.)
Whittier, Elmer S., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Device for melting paraffin. 1,696,826; Dec. 25.
Wiener, Elizabeth, New York, N. Y. Whisk-broom holder. Des. 77,344; Dec. 25.
Wilbur, Samuel P., Toledo, Ohio, assignor, by mesne assignments, to U S L Battery Corporation. Hydrometer device. 1,696,618; Dec. 25.
Wilhelm, Herman, New York, N. Y. Shoe. Des. 77,345; Dec. 25.
Willetts, Paul G., Berlin, assignor to Hartford-Empire Company, Hartford, Conn. Composite glass-feeder implement. 1,696,661; Dec. 25.
Williams, Mulford M., assignor to A. N. Prentice, Oakland, Calif. Animated-display device. 1,696,827; Dec. 25.
Williams, Samuel B., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 1,696,261; Dec. 25.
Williams, William E., Wilmette, Ill. Railway-box-car carline. 1,696,427; Dec. 25.
Williams, William E., Wilmette, Ill. Carrier used in making book and other matches. 1,696,743; Dec. 25.
Wills, Harold A., Plainfield, N. J. Railroad crosstie. 1,696,662; Dec. 25.
Wired Radio, Inc. (See Crossley, Alfred, assignor.)
Wired Radio, Inc. (See Trogner, A. M., and Davis, assignors.)
Wireless Specialty Apparatus Company. (See Pickard, Greenleaf W., assignor.)
Wise, Solomon, Cincinnati, Ohio. Lock. 1,696,829; Dec. 25.
Wood, Jonathan T., Chatham, Ontario, Canada. Instep-arch support. 1,696,786; Dec. 25.
Wood, Joseph D., Wollaston, assignor, by mesne assignments, to Condit Electrical Manufacturing Corporation, Boston, Mass. Protective apparatus and system. 1,696,289; Dec. 25.
Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
Wood, Robert T., Niagara Falls, N. Y., assignor to American Magnesium Corporation. Magnesium primary cell. 1,696,873; Dec. 25.
Wooton, James A., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electromagnetic device. 1,696,223; Dec. 25.
Wright, Stephen E., Los Angeles, Calif. Tobacco pipe. 1,696,372; Dec. 25.
Wrobel, S., Slipper C. (See Wrobel, Simon, assignor.)
Wrobel, S., Slipper Co. (See Wrobel, Simon, assignor.)
New York, N. Y. Boudoir slipper. Des. 77,346; Dec. 25.
Wulff, Peter, Starnberg, and B. Wendt, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Light-sensitive silver halide emulsions and making the same. 1,696,830; Dec. 25.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Electric controlling device. 1,696,744; Dec. 25.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Fuse mechanism. 1,696,745; Dec. 25.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling mechanism. 1,696,746; Dec. 25.
Wyman, Charles W., Claremont, N. H., assignor to Sullivan Machinery Company. Interlocking mechanism. 1,696,747; Dec. 25.
Wyman, Charles, W., Claremont, N. H., assignor to Sullivan Machinery Company. Controlling apparatus. 1,696,748; Dec. 25.
Yarwood, William A., Buffalo, N. Y. Stoker. 1,696,587; Dec. 25.
Yates-American Machine Company. (See Turcott, David, assignor.)
Yellow Coach Manufacturing Company. (See Rackham, George J., assignor.)
Young, Charles O., Elmhurst, N. Y., assignor to Carbide & Carbon Chemical Corporation. Making ethylene glycol monoalkyl ethers. 1,696,874; Dec. 25.
Zabriskie, Edgar, et al. (See Rosentreter, Albert, J., assignor.)
Zeiss Carl. (See Meyer, Franz, assignor.)
Zelkowitz, Herman L. (See Zelkowitz, Nathan and H. L., and Brayman.)
Zelkowitz, Nathan and H. L., and B. Brayman, Wilkes-Barre, Pa. Dispensing device. 1,696,787; Dec. 25.
Zellner, Henry G., Fort Myers, assignor to Zeltrocide Chemical Corporation, Lakeland, Fla. Composition for treating fruit. 1,696,703; Dec. 25.
Zellner, Henry G., Fort Myers, assignor to Zeltrocide Chemical Corporation, Lakeland, Fla. Composition for treating fresh fruits and vegetables. 1,696,704; Dec. 25.
Zeltrocide Chemical Corporation. (See Zellner, Henry G., assignor.)
Zenker, Oscar E., assignor to Reliance Fireproof Door Co., Brooklyn, N. Y. Metal door and the like. 1,696,373; Dec. 25.

# ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

## PATENTS WERE ISSUED ON THE 25TH DAY OF DECEMBER, 1928.

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice). **Includes patents, reissues, and designs.**

Acetaldehyde, Manufacture of. C. N. Hand. 1,696,479; Dec. 25.
Acid, Aromatic sulphonic. F. Günther and A. Cantzler. 1,696,190; Dec. 25.
Acid esters of polyglycerol, Producing abietic. E. M. Symmes. 1,696,337; Dec. 25.
Acid solutions, Concentrating lower-aliphatic-. H. Dreyfus and C. I. Haney. 1,696,432; Dec. 25.
Acoustic apparatus. M. Weil. 1,696,784; Dec. 25.
Acoustic device. O. E. Buckley. 1,696,265; Dec. 25.
Acoustic diaphragm. C. Blieberger. 1,696,565; Dec. 25.
Addressing machine, Hand-operated. E. A. Geiger and A. Geiger. 1,696,760; Dec. 25.
Addressing machines, Automatic selective attachment for. E. A. Geiger, A. F. Schraegle, and H. T. Jennings. 1,696,759; Dec. 25.
Advertising cigar lighter. A. L. Jackson. Des. 77,318; Dec. 25.
Aeronautical machine. J. R. Porter. 1,696,581; Dec. 25.
Aeroplane. P. G. Kluse. 1,696,404; Dec. 25.
Agricultural machine. H. H. Green. 1,696,299; Dec. 25.
Agricultural machine, Automatic. E. E. Goucher. 1,696,352; Dec. 25.
Air blower for dental purposes. A. Lübke. 1,696,440; Dec. 25.
Air brake. C. R. Bowen. 1,696,665; Dec. 25.
Air-regulating device for automobile radiators. G. G. Marshall. 1,696,208; Dec. 25.
Airplane. W. Lenert. 1,696,493; Dec. 25.
Alkyl Isoalkyl cyclohexanols, Making. W. Schoeller and H. Jordan. 1,696,782; Dec. 25.
Ammonia, Directly producing. C. Otto. 1,696,446; Dec. 25.
Anchor for floor sleepers. T. J. Senesac. 1,696,695; Dec. 25.
Anchoring device, Wheel. O. K. and C. C. Richard. 1,696,732; Dec. 25.
Animal trap. G. N. Irwin. 1,696,768; Dec. 25.
Annealing apparatus. H. V. Leckie and S. A. North. 1,696,886; Dec. 25.
Annealing boxes, Apparatus for crowning. A. R. McArthur. 1,696,686; Dec. 25.
Antenna. R. A. Heising. 1,696,234; Dec. 25.
Antenna, Loop. T. C. Deutschmann. 1,696,529; Dec. 25.
Antenna system. H. W. Nichols. 1,696,249; Dec. 25.
Apparel hanger. E. H. Clarke. 1,696,753; Dec. 25.
Ash receptacle or analogous article. E. C. Lewis. Des. 77,324; Dec. 25.
Ash receptacle or similar article. E. C. Lewis. Des. 77,323; Dec. 25.
Assembling elements of articles, Apparatus for. G. L. Rock. 1,696,257; Dec. 25.
Atomizer. E. C. Brown. 1,696,428; Dec. 25.
Auto signal. E. F. Smart. 1,696,890; Dec. 25.
Automobile heater. S. A. Snell. 1,696,214; Dec. 25.
Automobile lock. M. A. McKay and E. E. Doudna. 1,696,278; Dec. 25.
Automobiles, Blanket holder for hoods of. H. A. Townsend. 1,696,220; Dec. 25.
Axles. Reclaiming of worn car. W. H. Stocking. 1,696,217; Dec. 25.
Bag inserter. R. Hansen. 1,696,843; Dec. 25.
Bail construction for lanterns and the like. R. A. Currie. 1,696,567; Dec. 25.
Balance regulator, Voltage-. L. C. Roberts. 1,696,415; Dec. 25.
Bar: *See*—
Lintel bar.
Bearing for lawn mowers and the like. H. Priest. 1,696,325; Dec. 25.
Bearing for railway cars, Side. J. F. O'Connor. 1,696,318; Dec. 25.
Bearing, Machine. E. Brown. 1,696,667; Dec. 25.
Bed, Ceiling. T. W. Price. 1,696,412; Dec. 25.
Bed for shoe-ornamenting machinery. B. B. Brodfuehrer, B. W. Freeman, and C. A. Jester. 1,696,834; Dec. 25.
Bell-ringing device. G. V. Schwenzer. 1,696,648; Dec. 25.
Belt, Potato-picking. R. B. Tresner. 1,696,509; Dec. 25.
Bending machine. T. J. Kelleher. 1,696,849; Dec. 25.
Bending machine. J. W. Killingsworth. 1,696,850; Dec. 25.
Binding post. F. C. Wappler. 1,696,616; Dec. 25.
Blade for scissors, Composite. I. Patrick. 1,696,323; Dec. 25.
Block and wall, Building. H. L. Strand. 1,696,818; Dec. 25.
Blotting device. M. E. Keig. 1,696,308; Dec. 25.
Blower. E. C. Hassler. 1,696,882; Dec. 25.
Board: *See*—
Ironing board.
Board and manufacturing the same, Pulp. H. T. Price. 1,696,896; Dec. 25.
Boiler: *See*—
Semiflash boiler.
Bottle. H. Newman. Des. 77,326; Dec. 25.
Bottle cap. R. W. von Sydow. 1,696,742; Dec. 25.
Bottle-turning mechanism. G. C. Crawford and J. R. Bridges. 1,696,294; Dec. 25.
Bowl or similar article. E. T. Hurley. Des. 77,317; Dec. 25.
Box: *See*—
Metal box. Shipping box.
Braid, Upholstery. H. O. Shults. Des. 77,330; Dec. 25.
Brake: *See*—
Air brake. Railway brake.
Friction brake. Vehicle brake.
Power-operated brake.
Brake mechanism. K. E. Lyman. 1,696,314; Dec. 25.
Brake releasing device. W. H. Watlington. 1,696,702; Dec. 25.
Braking, Regenerative. P. W. Forsberg. 1,696,599; Dec. 25.
Brick for furnace-wall construction. O. Nygaard. 1,696,813; Dec. 25.
Brush attachment. S. A. Steinarson. 1,696,816; Dec. 25.
Brush, Denture. H. W. Faubert and E. E. Wheelock. 1,696,433; Dec. 25.
Brush, Rotary hydraulic bath. W. E. Burnett. 1,696,835; Dec. 25.
Buckle. G. W. Brown. 1,696,293; Dec. 25.
Bumper. H. S. Jandus and L. H. Reed. 1,696,883; Dec. 25.
Bumper, Automobile. F. G. Bremer. 1,696,187; Dec. 25.
Bundle, Plaster-board. C. R. Birdsey. 1,696,877; Dec. 25.
Burner: *See*—
Gas burner. Vapor burner.
Liquid-fuel burner.
Burning apparatus, Portable. F. D. Schultz. 1,696,888; Dec. 25.
Burr for gristmills. D. S. Anthony. 1,696,514; Dec. 25.
Cabinet, Brick-ice-cream packing and cooling. E. M. Fritz. 1,696,349; Dec. 25.
Cabinet, Fuse-dispensing. M. J. Connery. 1,696,190; Dec. 25.
Cabinet, Towel holding and dispensing. C. H. Ashley and L. H. Philleo. 1,696,184; Dec. 25.
Camera attachment. E. J. Crockett. 1,696,431; Dec. 25.
Cameras, Film signaling device for. F. W. Gage and A. W. Tondreau. 1,696,533; Dec. 25.
Can: *See*—
Paint can.
Can-feeding machine. R. M. Huddleston. 1,696,715; Dec. 25.
Can-filling machine. C. H. Ayars. 1,696,376; Dec. 25.
Cannon. E. J. Blood. 1,696,339; Dec. 25.
Cap and package. E. Scofield. 1,696,330; Dec. 25.
Capping machine. T. Sutcliffe. 1,696,819; Dec. 25.
Car seat. C. T. Hansen and A. B. Bell. 1,696,536; Dec. 25.
Carburetor. F. C. Givens. 1,696,711; Dec. 25.
Card. D. F. Matson. 1,696,808; Dec. 25.
Cards, Set of playing. O. Kubatzky. Des. 77,321; Dec. 25.
Carline, Railway-box-car. W. E. Williams. 1,696,427; Dec. 25.
Carrier used in making book and other matches. W. E. Williams. 1,696,743; Dec. 25.
Carrier-wave communication. J. W. Schmied. 1,696,258; Dec. 25.
Carrousel. C. E. Morris. 1,696,500; Dec. 25.
Cases, Making leather. C. G. Aldrich. 1,696,788; Dec. 25.
Casing and support for electrical apparatus. C. F. Swasey. 1,696,260; Dec. 25.
Casing for ingot molds, Shrink-head. E. Gathmann. 1,696,395; Dec. 25.
Casing head for oil wells. H. S. Haynes and W. L. Alexander. 1,696,844; Dec. 25.
Casing hook, Hydraulic. W. Brauer. 1,696,378; Dec. 25.
Casting, Method of and machine for. E. J. Byerlein. 1,696,670; Dec. 25.
Catch, Drag-handle. J. B. Tucker. 1,696,461; Dec. 25.
Cedar chest. H. Dworkis. Des. 77,310–12; Dec. 25.
Centrifugal switch. H. L. Brump. 1,696,621; Dec. 25.
Chain, Antiskid. P. H. Pfeil. 1,696,448; Dec. 25.
Chain for vehicle nonskid devices, Cross-. J. R. Reyburn. 1,696,255; Dec. 25.
Chair. A. J. Lehman. Des. 77,322; Dec. 25.
Check device, Drain-ditch. H. B. Helsing. 1,696,481; Dec. 25.
Chuck jaws. G. F. Hopkins. 1,696,765; Dec. 25.
Circuit closer. J. T. Harrigan. 1,696,713; Dec. 25.
Circuit closer, Speedometer-actuated. J. C. Sosnowski. 1,696,458; Dec. 25.
Circuit for electron tubes, Control. A. Crossley. 1,696,626; Dec. 25.

Circuits for synchronous motors. E. R. Morton. 1,696,248; Dec. 25.
Circuits. Substation. K. S. Johnson. 1,696,274; Dec. 25.
Clam digger. C. E. Wallace. 1,696,371; Dec. 25.
Clamp: *See*—
Rail clamp. Shore clamp.
Clamp with castings, Column. H. O. McMillan. Re17,170; Dec. 25.
Clasp: *See*—
Lingerie clasp.
Clasp for bracelets or the like. C. H. Batchelder. 1,696,292; Dec. 25.
Cleaner: *See*—
Tube cleaner.
Cleaning device, Clothes and fabric. C. W. Roberts. 1,696,414; Dec. 25.
Clinch collar for shades. L. W. Andersen. 1,696,875; Dec. 25.
Clip for pencils and the like. G. L. Bassett. 1,696,183; Dec. 25.
Clock case. R. H. Whitehead. Des. 77,342–3; Dec. 25.
Closet: *See*—
Water-closet.
Closure and method of sealing. A. Podel. 1,696,555; Dec. 25.
Closure for collapsible tubes. A. E. Smith. 1,696,506; Dec. 25.
Closure, Tank-riser. L. C. Eller. 1,696,754; Dec. 25.
Clothesbrush, Pocket. N. Olmazu. 1,696,727; Dec. 25.
Clothes hanger. N. E. Hawkins. 1,696,480; Dec. 25.
Clutch control for transmission mechanism. R. F. Crawford. 1,696,838; Dec. 25.
Coal, Apparatus and process for utilizing. H. S. Reed. 1,696,731; Dec. 25.
Cock, Angle. B. Pratt. 1,696,283; Dec. 25.
Coffee aroma, Producing artificial. H. Staudinger and T. Beichstein. 1,696,419; Dec. 25.
Collar band. H. W. Potts. 1,696,450; Dec. 25.
Combination cap and eye shield. O. Gross. 1,696,198; Dec. 25.
Comminutor R. C. Newhouse. 1,696,857; Dec. 25.
Composition, Foam-producing. E. M. A. Sthamer. 1,696,507; Dec. 25.
Composition for treating fresh fruits and vegetables. H. G. Zellner. 1,696,704; Dec. 25.
Composition for treating fruit. H. G. Zellner. 1,696,703; Dec. 25.
Compound for tempering tools and tool steel. J. F. Edwards. 1,696,297; Dec. 25.
Compressor. E. L. Barnes. 1,696,564; Dec. 25.
Compressor. W. Fourness. 1,696,673–4; Dec. 25.
Concrete form. T. J. Senesac. 1,696,694; Dec. 25.
Condensation products from crude cresol and acetone, Producing. H. Jordan. 1,696,769; Dec. 25.
Condenser, High-tension electrical. G. W. Pickard. 1,696,895; Dec. 25.
Conductor for the transmission of electrical energy and producing the same. A. F. Bandur. 1,696,262; Dec. 25.
Connecter for incandescent lamps. G. F. Becker. 1,696,663; Dec. 25.
Connecter for wrist-watch strap, band, or bracelet. C. H. Kestenman. 1,696,577; Dec. 25.
Connection, Pivotal. H. C. Harris. 1,696,201; Dec. 25.
Contact structure for electric switches. T. T. Greenwood. 1,696,301; Dec. 25.
Container, Safety money. W. F. and A. E. Clegg. 1,696,522; Dec. 25.
Continuous furnace. J. B. Tytus. 1,696,822; Dec. 25.
Control mechanism, Automatic. W. C. Ward. 1,696,659; Dec. 25.
Controlling apparatus. C. W. Wyman. 1,696,748. Dec. 25.
Controlling device, Electric. C. W. Wyman. 1,696,744; Dec. 25.
Controlling device, Electroresponsive. A. F. Welch. 1,696,617; Dec. 25.
Controlling mechanism. J. Gouldbourn. 1,696,535; Dec. 25.
Controlling mechanism. C. W. Wyman. 1,696,746; Dec. 25.
Controlling mechanism for gasoline tanks. N. A. Carlson. 1,696,541; Dec. 25.
Controlling mechanism for wheel brakes. J. B. Des Rosiers. 1,696,839; Dec. 25.
Cooling of fruits and vegetables in refrigerator cars. C. W. Mann. 1,696,441; Dec. 25.
Cooling system for dynamo-electric machines. C. W. Rice. 1,696,612; Dec. 25.
Coop or crate. A. W. Rosenberger. 1,696,693; Dec. 25.
Cop-winder head. E. F. Krueger. 1,696,717; Dec. 25.
Corn ventilating and drying device. O. R. Ludwig. 1,696,854; Dec. 25.
Corner lock. M. Fox. 1,696,269; Dec. 25.
Cot, Folding. F. G. Manly. 1,696,245; Dec. 25.
Coupling: *See*—
Electric-circuit coupling.
Cover and pail support, Combined barrel. E. E. Schulz. 1,696,418; Dec. 25.
Cover or analogous article, Table. E. Thorne. Des. 77,335; Dec. 25.
Cover, Sanitary headrest. C. C. Martz. 1,696,775; Dec. 25.
Cover, Telescoping cabinet. J. A. Sebring. 1,696,456; Dec. 25.
Crusher. H. J. Shelton. 1,696,213; Dec. 25.
Crushing machine. P. L. Crowe. 1,696,387; Dec. 25.
Crystal, Piezo-electric. A. Crossley. 1,696,627; Dec. 25.
Cultivator. G. A. Flood. 1,696,710; Dec. 25.
Cultivator, Hand. C. B. Herning. 1,696,678; Dec. 25.
Cultivator, Roller. I. F. Stem and J. H. Glaze. 1,696,654; Dec. 25.
Cultivators, Plant guard for. J. Hlavka. 1,696,680; Dec. 25.
Current-rectifying system. H. F. Porter. 1,696,210; Dec. 25.
Cutter: *See*—
Stalk cutter.
Cutter head. A. F. Froussard. 1,696,195; Dec. 25.
Cylinder for hydraulic brakes, Master. C. F. Mattingly. 1,696,721; Dec. 25.
Decolorizing vegetable oils. H. E. Bierce. 1,696,338; Dec. 25.
Dehydrating crude oils, Apparatus for. W. L. Palmer. 1,696,859; Dec. 25.
Deinking process and performing same. W. Lewis. 1,696,639; Dec. 25.
Delivery apparatus. C. J. Paulson. 1,696,447; Dec. 25.
Dental implement. W. Jeffreys. 1,696,486; Dec. 25.
Dentistry, Prosthetic. E. A. Thayer. 1,696,422; Dec. 25.
Depositor. R. S. Hislop. 1,696,845; Dec. 25.
Diaphragm for telephone instruments. E. V. Mackintosh. 1,696,807; Dec. 25.
Die. C. A. Messmer, jr. 1,696,442; Dec. 25.
Dielectric substance and manufacturing the same. A. Mouillefarine. 1,696,501; Dec. 25.
Digger: *See*—
Clam digger.
Dish, Soap. A. C. Brown. 1,696,666; Dec. 25.
Dishwasher. J. W. Lowthorp. 1,696,640; Dec. 25.
Dispenser, Glue. T. Wakabayashi. 1,696,783; Dec. 25.
Dispensing device. N. and H. L. Zelkowitz and B. Brayman. 1,696,787; Dec. 25.
Disperse systems, Manufacture of. C. A. Agthe. 1,696,374; Dec. 25.
Display device, Animated. M. M. Williams. 1,696,827; Dec. 25.
Display device, Sectional. E. O. Bulman. 1,696,342; Dec. 25.
Display device, Window. C. F. Castagna. 1,696,189; Dec. 25.
Distilling shale. H. S. Reed and R. D. Lamie. 1,696,730; Dec. 25.
Distribution system. L. F. Blume. 1,696,591; Dec. 25.
Distributor. E. A. Bohlman. 1,696,340; Dec. 25.
Doll. G. L. Fraser and C. T. Kent. Des. 77,325; Dec. 25.
Door and the like, Metal. O. E. Zenker. 1,696,373; Dec. 25.
Doorcheck. J. Schornack. 1,696,701; Dec. 25.
Door lock. J. M. Westcott. 1,696,466; Dec. 25.
Door mechanism, Elevator. A. J. Rosentreter. 1,696,327; Dec. 25.
Door-operated switch. H. Glaser. 1,696,712; Dec. 25.
Door-operating mechanism. F. J. Clark. 1,696,344; Dec. 25.
Door-operating mechanism for swinging doors of garages and the like. G. H. Bridgewater and C. M. Goben. 1,696,379; Dec. 25.
Door structure for automobile bodies. J. Ledwinka. 1,696,310; Dec. 25.
Dough mixer. W. G. Kirchhoff. Re17,169; Dec. 25.
Drafting system. H. A. Owen. 1,696,553; Dec. 25.
Drapery-pole center. A. Diouhy. Des. 77,309; Dec. 25.
Drapery-pole center. R. H. Vermillion. Des. 77,338–9; Dec. 25.
Driving endless conveyers. E. P. Webster. 1,696,465; Dec. 25.
Dropper: *See*—
Syringe and medicine dropper.
Drum, pipe, fittings, etc. T. E. Murray. 1,696,725; Dec. 25.
Drying, steaming, and conditioning tubular fabrics, Device for. M. M. Kasanof. 1,696,682; Dec. 25.
Egg-case flat. F. W. Cole. 1,696,430; Dec. 25.
Egg-case flat. G. A. Filer. 1,696,434; Dec. 25.
Elastic wheel. C. A. Van Bourgonie. 1,696,741; Dec. 25.
Electric appliance. M. J. Malling. 1,696,495; Dec. 25.
Electric-circuit coupling. H. R. Sargent and F. C. De Reamer. 1,696,583; Dec. 25.
Electric furnace. A. N. Otis and C. L. Ipsen. 1,696,728; Dec. 25.
Electric switch. J. D. Hilliard. 1,696,571–3; Dec. 25.
Electric switch, Multibreak. W. S. Edsall. 1,696,296; Dec. 25.
Electric switch, Multibreak. A. C. Kelle. 1,696,276; Dec. 25.
Electrical apparatus. W. R. Frampton. 1,696,348; Dec. 25.
Electrical apparatus. D. C. Prince. 1,696,862; Dec. 25.
Electrical instrument. H. I. Shire. 1,696,333; Dec. 25.
Electrical pilotage. J. J. Gilbert. 1,696,230; Dec. 25.
Electrical shifting mechanism for curtains. L. V. Strouse. 1,696,368; Dec. 25.
Electrical testing device. J. M. Coote. 1,696,266; Dec. 25.
Electromagnet. P. Trombetta. 1,696,615; Dec. 25.





Electromagnetic device. J. A. Wotton. 1,696,223; Dec. 25.
Elevator: *See*—
Safety elevator.
Elevator system and apparatus in connection therewith. F. Lane and W. A. Machin. 1,696,309; Dec. 25.
Emulsions and making the same, Light-sensitive silver halide. P. Wulff and B. Wendt. 1,696,830; Dec. 25.
Engine: *See*—
Internal-combustion engine.
Engine of the two-stroke type, Internal-combustion. G. Heid. 1696,799; Dec. 25.
Engine-shell lining, Jordan. H. D. Martindale. 1,696,641; Dec. 25.
Engines, Mounting means for vehicle. D. S. Harder and F. W. Vrooman. 1,696,602; Dec. 25.
Ethers, Making ethylene glycol monoalkyl. C. O. Young. 1,696,874; Dec. 25.
Evaporating brines, G. B. Burnham. 1,696,542; Dec. 25.
Expansion joint. C. A. Fraley. 1,696,435; Dec. 25.
Exterminator, Weed. M. F. Moran. 1,696,856; Dec. 25.
Extracting rosin and turpentine from wood. A. A. Shimer. 1,696,696; Dec. 25.
Fan, Coin-controlled. M. L. Haney. 1,696,231–2; Dec. 25.
Fastener. A. B. Allen. 1,696,467; Dec. 25.
Fastener slide. E. D. Simons. 1,696,586; Dec. 25.
Fastening and releasing means for document receptacles. L. M. Ballowe. 1,696,181; Dec. 25.
Fastening device. F. C. Rile. 1,696,284–5; Dec. 25.
Fastening device, Shoe-lace. A. Bonglovanni. 1,696,790–1; Dec. 25.
Faucet. W. O. Thompson. Des. 77,334; Dec. 25.
Faucet, Dispensing. M. Narbo. 1,696,687; Dec. 25.
Feeder, Convertible single or double rotary. L. K. Aldrich. 1,696,705; Dec. 25.
Feeding and forming box machine. L. E. La Bombard and M. H. Sidebotham. 1,696,204; Dec. 25.
Feeding device for manufacturing and wrapping of sweetmeats and the like. K. F. Kronqvist. 1,696,803; Dec. 25.
Feeding mechanism. M. J. Maguth. 1,696,549; Dec. 25.
Fender extension. F. P. Kaufman. 1,696,802; Dec. 25.
Fibrous material, Apparatus for the manufacture of mica-coated. E. Haefely. 1,696,397; Dec. 25.
Fighting tank. H. A. Knox. 1,696,439; Dec. 25.
File, Book-cover. G. L. Fenno. 1,696,629; Dec. 25.
Filing cabinet and the like, Prescription. C. M. Anderson. 1,696,375; Dec. 25.
Film reel. H. A. De Vry. 1,696,473; Dec. 25.
Filter. R. P. F. Liddell. 1,696,313; Dec. 25.
Filter. E. S. Stephens. 1,696,367; Dec. 25.
Filter, Oil. E. M. Scoville. 1,696,735; Dec. 25.
Filter, Water. A. E. Jervis. 1,696,487; Dec. 25.
Firearm, Automatic. J. T. Kewish. 1,696,537; Dec. 25.
Fire escape. W. W. Johnson. 1,696 357; Dec. 25.
Fire-extinguishing apparatus. C. A. Helm. 1,696,800; Dec. 25.
Fixture, Culinary. W. R. Walker. 1,696,464; Dec. 25.
Flanges on pipes, Forming. F. C. Fantz. 1,696,229; Dec. 25.
Flash light. A. S. Lyhne. 1,696,720; Dec. 25.
Fluid and gas trap. F. A. Langherst. 1,696,492; Dec. 25.
Fluid-break switch. J. D. Hilliard. 1,696,604; Dec. 25.
Fluid heater. W. Innes. 1,696,306; Dec. 25.
Folding table. B. Deland. 1,696,193; Dec. 25.
Forming articles, Method of and apparatus for. F. S. Kochendorfer. 1,696,242; Dec. 25.
Frame: *See*—
Greeting frame.
Frame for leather-spraying devices. P. G. Aulson. 1,696,185; Dec. 25.
Frames, Manufacturing racket. H. D. Penney. 1,696,251; Dec. 25.
Friction brake. J. S. Thompson. 1,696,821; Dec. 25.
Friction drive means. C. L. George. 1,696,476; Dec. 25.
Furnace: *See*—
Continuous furnace. Heating furnace.
Electric furnace.
Furnace. V. Ballou. 1,696,538; Dec. 25.
Furnace wall. D. S. Jacobus. 1,696,239; Dec. 25.
Furnace wall and brick therefor. O. Nygaard and B. H. Snow. 1,696,812; Dec. 25.
Fuse mechanism. C. W. Wyman. 1,696,745; Dec. 25.
Game. W. S. McMahon. 1,696,408; Dec. 25.
Game-playing machine. C. O. Nelson. 1,696,359; Dec. 25.
Garment. J. A. Duncan. 1,696,671; Dec. 25.
Garment, Child's. D. S. Ward. 1,696,559; Dec. 25.
Garment. Combination. H. E. Brewer. 1,696,620; Dec. 25.
Gas burner. H. E. Dickinson. 1,696,840; Dec. 25.
Gauge: *See*—
Liquid-level gauge. Track gauge.
Motor gauge. Wheel-aligning gauge.
Pressure gauge.
Gear and clutch mechanism. C. E. F. Ahlm. 1,696,179; Dec. 25.
Gear, Draft. W. H. Cotton. 1,696,345; Dec. 25.
Gear for automobiles, Intermediate. N. Christiansen and E. A. Illerburn. 1,696,837; Dec. 25.
Gear shift for drill heads, Accesible twin-lever. D. C. Klausmeyer. 1,696,403; Dec. 25.
Gear, Spring-controlled. G. Fornaca. 1,696,797; Dec. 25.
Gear, Transmission. R. Schoell. 1,696,331; Dec. 25.
Gearing. M. Treschow. 1,696,740; Dec. 25.
Gearing, Transmission. C. E. F. Ahlm. 1,696,178; Dec. 25.
Gel, Catalytic and adsorbent. W. A. Patrick. 1,696,644–5; Dec. 25.
Germicidal compound. J. J. Goodwin. 1,696,762; Dec. 25.
Glass-feeder implement, Composite. P. G. Willetts. 1,696,661; Dec. 25.
Glue-applying roll. W. A. Saatman. 1,696,329; Dec. 25.
Goblet or similar article. E. E. Slick. Des. 77,332; Dec. 25.
Golf accessory. H. W. St. John. 1,696,817; Dec. 25.
Gramophone and motion-picture apparatus, Combined. W. H. Baker. 1,696,831; Dec. 25.
Grate, Shaking, rocking and dumping. C. R. Wald. 1,696,463; Dec. 25.
Grease cup. E. M. Scoville. 1,696,737; Dec. 25.
Grease gun and greasing bearings, Booster. W. F. Hundemer. 1,696,606; Dec. 25.
Greeting frame, Season. M. A. McDonell. 1,696,407; Dec. 25.
Grinding apparatus. H. L. Johnston. 1,696,636; Dec. 25.
Grouser wheel, Adjustable. J. Phillips. 1,696,449; Dec. 25.
Guiding automobiles into position for service, Apparatus for. A. C. Isbell. 1,696,238; Dec. 25.
Gumming machine. M. Feybush and P. W. Fleischer. 1,696,755; Dec. 25.
Hair waver. A. E. Walsh. 1,696,823; Dec. 25.
Hand glass, Illuminated. C. T. Brady. Des. 77,288; Dec. 25.
Handling apparatus, Material. C. G. Pfeiffer. 1,696,780; Dec. 25.
Handling well casings, Apparatus for. C. R. Crossen. 1,696,526; Dec. 25.
Hanger: *See*—
Apparel hanger. Clothes hanger.
Hender for meters, Suspending and controlling. W. B. Ford. 1,696,757; Dec. 25.
Headlight. J. P. C. Charlebois. 1,696,793; Dec. 25.
Heat-resistant composition suitable for arc deflectors. W. R. Steele. 1,696,614; Dec. 25.
Heat-treating apparatus. L. E. Howard. 1,696,801; Dec. 25.
Heater: *See*—
Automobile heater. Orchard heater.
Fluid heater. Water heater.
Heater. G. E. Pickup. Des. 77,328; Dec. 25.
Heater. W. W. Ridgely. 1,696,454; Dec. 25.
Heater controller. O. A. Knopp. 1,696,684; Dec. 25.
Heating furnace, Continuous. C. E. Lehr. 1,696,805; Dec. 25.
Heel-cutter guard, Shoe. E. L. Keener. 1,696,716; Dec. 25.
Hinge, Automobile seat. F. Leutz. 1,696,685; Dec. 25.
Holder, Automobile license-plate. G. J. Laplerre and T. A. Gilligan. 1,696,804; Dec. 25.
Holder, Bag. G. W. Morden and M. Weber. 1,696,551; Dec. 25.
Holder, Contact-screen. C. W. Davis and G. B. Taylor. 1,696,528; Dec. 25.
Holder, Flower-vase. E. D. Anson. Des. 77,280; Dec. 25.
Holder for arc-lamp carbons. F. Meyer. 1,696,777; Dec. 25.
Holder for socket-wrench sets. E. S. Miller and F. A. Hnist. 1,696,444; Dec. 25.
Holder, Iron. F. E. Bowman and G. F. Cameron. 1,696,518; Dec. 25.
Holder, Playing-card. H. J. Sander and A. J. Breister. 1,696,647; Dec. 25.
Holder, Toothbrush. W. C. Athon. 1,696,706; Dec. 25.
Holder, Train-order-hoop. G. E. Madsen. 1,696,279; Dec. 25.
Holder, Tree. F. K. Underwood. 1,696,288; Dec. 25.
Holder, Water-spout. J. M. Wells. 1,696,426; Dec. 25.
Holder, Whisk-broom. E. Wiener. Des. 77,344; Dec. 25.
Holster. E. J. Brauer. 1,696,708; Dec. 25.
Hone, Cylinder. E. A. Hall and G. J. Lindroth. 1,696,477; Dec. 25.
Honing and stropping device. A. Pascoo. 1,696,778; Dec. 25.
Hook: *See*—
Casing hook.
Horn, Multituned. M. R. Hutchison. 1,696,304; Dec. 25.
Humidifier for internal-combustion engines. E. Carter. 1,696,752; Dec. 25.
Hydrocarbons, Cracking. M. J. Trumble. 1,696,658; Dec. 25.
Hydrometer device. S. P. Wilbur. 1,696,618; Dec. 25.
Impact recorder. E. Stout. 1,696,420; Dec. 25.
Index, Telephone. M. M. Shore. 1,696,335; Dec. 25.
Indicating mechanism. L. A. White. 1,696,512; Dec. 25.
Insecticidal plant food. For fertilizer. F. G. Dokkenwadel. 1,696,709; Dec. 25.
Instrument control. W. M. Brower. 1,696,380; Dec. 25.
Insulator rack. W. D. Kyle. 1,696,491; Dec. 25.
Insulator-supporting pin. B. A. Plimpton. 1,696,861; Dec. 25.
Interlocking mechanism. C. W. Wyman. 1,696,747; Dec. 25.
Internal-combustion engine. H. L. Elliott and R. A. Carroll. 1,696,475; Dec. 25.
Internal-combustion engine. R. Strindberg. 1,696,336; Dec. 25.
Internal-combustion motor. W. Fuhr. 1,696,676; Dec. 25.
Ironing board. C. B. Goodman. 1,696,798; Dec. 25.

Ironing machines, Clothes returner for. A. Marcoux. 1,696,609; Dec. 25.
Irrigating apparatus. W. H. Coles. 1,696,384; Dec. 25.
Irrigating device. W. H. Coles. 1,696,385; Dec. 25.
Jack: *See*—
Pumping jack.
Jack. C. E. Bradburn. 1,696,520; Dec. 25.
Jack. N. C. Schellenger. 1,696,865; Dec. 25.
Jar cap. A. A. Lundeen. 1,696,719; Dec. 25.
Jellies, Extraction and drying of. W. J. Müller, H. Carstens, and J. Drucker. 1,696,358; Dec. 25.
Joint: *See*—
Expansion joint.
Journal-box-aligning device. J. F. O'Connor. 1,696,321; Dec. 25.
Key: *See*—
Multiple-plug key.
Knitting machine. N. J. Perry. 1,696,282; Dec. 25.
Lace. W. A. Parsons. Des. 77,327; Dec. 25.
Ladle stopper. C. C. Bacon. 1,696,876; Dec. 25.
Lamp. F. W. Norton. 1,696,643; Dec. 25.
Lamp, Battery hand. E. Aischuler. 1,696,513; Dec. 25.
Lamp, Desk unit magnifying. C. T. Brady. Des. 77,289; Dec. 25.
Lamp, Electric floor. J. Tissler. Des. 77,336; Dec. 25.
Lamp, Electric incandescent. P. O. Cartun. 1,696,594; Dec. 25.
Landing light, Retractable. W. H. Capell. 1,696,521; Dec. 25.
Lantern. D. E. Lindsay. 1,696,244; Dec. 25.
Latch for sliding doors. P. P. Welty. 1,696,785; Dec. 25.
Latch, Screen. F. D. and C. Hobbs. 1,696,355; Dec. 25.
Latch, Sliding-door. H. J. Spencer. 1,696,870; Dec. 25.
Lawn sprinkler, Disappearing or telescopic. W. H. Graham. 1,696,298; Dec. 25.
Leather finishing. A. Small. 1,696,815; Dec. 25.
Leather or similar article. B. Stember. Des. 77,333; Dec. 25.
Level and angling device, Hand. W. Thorburn. 1,696,508; Dec. 25.
Lid for containers, Clamping. D. W. Curtis. 1,696,388; Dec. 25.
Light: *See*—
Flash light. Landing light.
Light fixture. H. M. Firth. Des. 77,314; Dec. 25.
Lingerie clasp. L. P. and M. C. Morgan. 1,696,580; Dec. 25.
Lintel bar. S. S. Herrick. 1,696,764; Dec. 25.
Liquid-delivery system. G. W. Stedwell. 1,696,738; Dec. 25.
Liquid dispenser. C. R. Eckberg. 1,696,391; Dec. 25.
Liquid-fuel burner. J. H. Gray. 1,696,196; Dec. 25.
Liquid-fuel burner. J. E. Kresky. 1,696,547; Dec. 25.
Liquid-level gauge. H. Ford. 1,696,347; Dec. 25.
Liquids, Apparatus for raising. J. O. Boving. 1,696,792; Dec. 25.
Lock: *See*—
Automobile lock. Door lock.
Corner lock.
Lock. J. Junkunc. 1,696,488; Dec. 25.
Lock. S. Wise. 1,696,829; Dec. 25.
Locomotive, Auxiliary. R. J. McCarty, jr. 1,696,610; Dec. 25.
Log-sizing mechanism. T. A. Peterson. 1,696,502; Dec. 25.
Loud speaker. A. F. Randall. 1,696,863; Dec. 25.
Loud-speaker unit. H. Heller and J. C. Mitchell. 1,696,235; Dec. 25.
Lubricant and lubricating refrigerating machinery, Refrigerant. R. F. Massa. 1,696,642; Dec. 25.
Lubricating gun. C. W. Manzel. 1,696,497; Dec. 25.
Lubricator: *See*—
Self-feeding lubricator.
Machine for displaying advertisements, posters, pictures, show cards, and the like, Automatic. W. Thorpe. 1,696,635; Dec. 25.
Machine for drilling, tapping, and the like. P. Meyer. 1,696,550; Dec. 25.
Machine for extracting juice from fruit. B. H. Divine. 1,696,390; Dec. 25.
Machine for grinding or cutting stone. J. Wegner. 1,696,660; Dec. 25.
Machine for inspecting and bundling cloth. A. Sommaripa and L. G. Roberts. 1,696,287; Dec. 25.
Machine for making hot-pressed nuts. C. F. Newpher. 1,696,887; Dec. 25.
Machine for ramming molds and the like. E. D. Patterson. 1,696,250; Dec. 25.
Machine for sheeting dough. E. M. Crosland. 1,696,891; Dec. 25.
Machine for trimming the edges of bearings or like sections. C. W. Eggenweiler, and W. J. Fiegel. 1,696,302; Dec. 25.
Machinery, Shoe-ornamenting. B. W. Freeman. 1,696,631; Dec. 25.
Magnesium primary cell. R. T. Wood. 1,696,873; Dec. 25.
Marker, Price. F. W. Wanner. 1,696,824; Dec. 25.
Marker, Traffic. W. A. Wallace. 1,696,510; Dec. 25.
Mat: *See*—
Reclining mat.
Measuring and dispensing apparatus, Liquid. R. L. Edison. 1,696,841; Dec. 25.
Measuring and drafting instrument, Combined. F. L. Bane. 1,696,832; Dec. 25.
Measuring instrument, Propeller-blade-. L. H. Coolidge. 1,696,525; Dec. 25.
Mechanical movement. E. Davis. 1,696,628; Dec. 25.
Mechanism for use with articulated mold forms. H. R. Suiter. 1,696,699; Dec. 25.
Medicament dispenser for lung treatments, Powdered-. D. N. E. Campbell. 1,696,469; Dec. 25.
Melting paraffin, Device for. E. S. Whittier. 1,696,826; Dec. 25.
Metal box. W. C. Hiering. 1,696,483; Dec. 25.
Metal trim. I. A. Baum. 1,696,749; Dec. 25.
Metals, Carburization of. G. W. Hegel and G. R. Brophy. 1,696,603; Dec. 25.
Meter attachment for fluid meters, Demand-. C. I. Hall. 1,696,600; Dec. 25.
Mirror frame. J. Turner. Des. 77,337; Dec. 25.
Mixer: *See*—
Dough mixer.
Mixers, Attachment for concrete. R. C. Burket. 1,696,751; Dec. 25.
Mold: *See*—
Multiple mold.
Mold. H. D. Rindsberg. 1,696,690; Dec. 25.
Mold ejector. E. W. Smith. 1,696,652; Dec. 25.
Mold for high-temperature casting of refractory bodies. K. E. Peiler. 1,696,688; Dec. 25.
Mold-form structure. H. R. Suiter. 1,696,700; Dec. 25.
Mono-amino-diphthaloyl acridones and preparing the same. W. Mieg and A. Job. 1,696,499; Dec. 25.
Motor: *See*—
Internal-combustion motor.
Motor-control system. C. I. Hall. 1,696,601; Dec. 25.
Motor gauge. E. D. Fageros. 1,696,393; Dec. 25.
Motor suspension, Booster-. H. M. Pflager. 1,696,324; Dec. 25.
Mouthpiece for musical wind instruments. E. Bercioux. 1,696 516; Dec. 25.
Multiple mold. S. Flam. 1,696,756; Dec. 25.
Nail driver. A. T. Phillips. 1,696,781; Dec. 25.
Napkin stand. F. Schofer. 1,696,556; Dec. 25.
Necktie. T. Rochman. 1,696,691; Dec. 25.
Needle-making machine. A. Hofmann and O. Kanis. 1,696,484; Dec. 25.
Nest, Trap. T. P. Garankin. 1,696,394; Dec. 25.
News stand with adjustable top. W. O'Boyle. 1,696,317; Dec. 25.
Nut blanks, Apparatus for making lock. I. C. Emery. 1,696,672; Dec. 25.
Nut, Lock. W. F. Cochran. 1,696,523; Dec. 25.
Oil-dispensing device. H. G. Davis. Re17,168; Dec. 25.
Oil switch. J. D. Hilliard. 1,696,570; Dec. 25.
Oiler, Air-line. G. Ibrmark. 1,696,485; Dec. 25.
Oiler, Telescopic. E. M. Scoville. 1,696,736; Dec. 25.
Operating means for speed indicators or recorders for locomotives. V. Z. Caracristi. 1,696,470; Dec. 25.
Orchard heater. W. S. Button. 1,696,668; Dec. 25.
Organic compounds, Purification of. D. B. Bradner. 1,696,539; Dec. 25.
Pack. H. G. Coulson. 1,696,191; Dec. 25.
Packing case or crate. W. W. Rice. 1,696,413; Dec. 25.
Packing device for filled-can-closing machines. H. A. Fink. 1,696,796; Dec. 25.
Paint can. A. G. Kircher, jr. 1,696,240; Dec. 25.
Paper, Wall. C. E. Burchfield. Des. 77,292; Dec. 25.
Peanut Butter. D. W. Howe. 1,696,706; Dec. 25.
Peavey. W. Latta. 1,696,852; Dec. 25.
Pen desk set, Fountain. G. E. Sweetnam and J. Oreck. 1,696,218; Dec. 25.
Percolator. W. A. Rankin. 1,696,451; Dec. 25.
Photographic-copying machine. A. W. Caps. 1,696,381; Dec. 25.
Photographic shutter. T. M. Brueck. 1,696,264; Dec. 25.
Photography, Color. C. L. Treleaven. 1,696,739; Dec. 25.
Pile fabric. H. P. Dick. Des. 77,308; Dec. 25.
Pin: *See*—
Insulator-supporting pin.
Pincushion for sewing machines. A. J. Larson. 1,696,771; Dec. 25.
Pipe: *See*—
Tobacco pipe.
Pipe fitting. D. Larkin. 1,696,207; Dec. 25.
Pipe tongs, Rotary. H. H. Holdaway. 1,696,356; Dec. 25.
Pipe wrench. A. J. Miehle. 1,696,722; Dec. 25.
Piston construction, Air-cooled. H. A. Palmer. 1,696,858; Dec. 25.
Piston rings, Compression and suction saving construction for. J. H. Thompson. 1,696,424; Dec. 25.
Plane. W. G. Schwer. 1,696,584; Dec. 25.
Plane, Carpenter's. H. L. Org. 1,696,552; Dec. 25.
Planter shoes, Clearing guard for. P. Dasen. 1,696,192; Dec. 25.
Planting attachment for listers, Potato-. R. V. Robertson. 1,696,864; Dec. 25.
Plate or similar article. C. Weiss. Des. 77,341; Dec. 25.
Platform for use with elevating trucks. F. J. Shepard, jr., and N. Warshaw. 1,696,585; Dec. 25.
Plug, key, Multiple-. E. Roethlisberger. 1,696,326; Dec. 25.
Plunger, Pump. D. Barnard. 1,696,563; Dec. 25.
Pointing and drawing wires. W. H. Sommer. 1,696,698; Dec. 25.
Pointing wires, Apparatus for. W. H. Sommer. 1,696,697; Dec. 25.





Pole. A. W. Malone. 1,696,772–3; Dec. 25.
Post: *See*—
Binding post.
Power-operated brake. L. Krupp. 1,696,851; Dec. 25.
Power supply. H. P. Donle. 1,696,880; Dec. 25.
Power transmission. L. R. Bushyager. 1,696,836; Dec. 25.
Power-transmission device. W. Henry. 1,696,632; Dec. 25.
Power-transmission device, Hydraulic. C. D. James. 1,696,307; Dec. 25.
Press for treating boards of alkaline cellulose and the like. W. Dützmann. 1,696,474; Dec. 25.
Pressure gauge. D. D. Rosenburgh. 1,696,814; Dec. 25.
Printing machine. S. O'Hara. 1,696,280–1; Dec. 25.
Printing press. C. F. Lang. 1,696,770; Dec. 25.
Printing presses, Web-feeding attachment for job. S. E. Kallenbaugh. 1,696,638; Dec. 25.
Press: *See*—
Printing press. Toggle press.
Screw press.
Protecting paved roads against erosion. O. V. Hough. 1,696,237; Dec. 25.
Protecting window glass in windows and doors of motor vehicles when paint is applied. R. M. Harris. 1,696,202; Dec. 25.
Protective apparatus and system. J. D. Wood. 1,696,289; Dec. 25.
Protective device. G. R. McDonald. 1,696,611; Dec. 25.
Protective system. A. S. Fitz Gerald. 1,696,598; Dec. 25.
Protective system for electric cables. F. Douchet. 1,696,226; Dec. 25.
Pulp-screening machine. A. J. Haug. 1,696,354; Dec. 25.
Pulpous material, Mechanism for working. H. W. Jespersen. 1,696,273; Dec. 25.
Pulverizing machine. J. Teipel. 1,696,219; Dec. 25.
Pump for molten metal. I. Tornberg. 1,696,656; Dec. 25.
Pump for refrigerating apparatus. W. H. Gray. 1,696,436; Dec. 25.
Pump, Fuel. J. W. White. 1,696,825; Dec. 25.
Pump in combination, Air and water. I. C. Jennings. 1,696,635; Dec. 25.
Pump, Low-lift. S. L. Menge. 1,696,776; Dec. 25.
Pump, Oil. E. M. Scoville. 1,696,733-4; Dec. 25.
Pump or compressor, Rotary. G. Berggren. 1,696,517; Dec. 25.
Pump-valve assembly. F. J. Heideman. 1,696,272; Dec. 25.
Pump, Variable-head centrifugal. A. Hollander. 1,696,545; Dec. 25.
Pumping jack. W. R. Barney. 1,696,182; Dec. 25.
Purification of acetic anhydride. W. P. Skertchly. 1,696,363; Dec. 25.
Purifying hydrocarbons. J. C. Black and W. H. Low. 1,696,377; Dec. 25.
Rack: *See*—
Insulator rack.
Radiator cap. H. G. Dibelka. Des. 77,306–7; Dec. 25.
Radiator construction. J. Feichter. 1,696,346; Dec. 25.
Radiator for motor cars and the like. A. Mond. 1,696,810; Dec. 25.
Radiators and the like, Apparatus for machining. J. Reid. 1,696,453; Dec. 25.
Radioantenna. C. A. Horton. 1,696,402; Dec. 25.
Radio apparatus. C. E. Bonine. 1,696,263; Dec. 25.
Radio apparatus, Shielding for. A. C. Peck. 1,696,411; Dec. 25.
Radiofrequency unit. T. E. Friend. 1,696,675; Dec. 25.
Radio receiving apparatus. R. E. Humphrey. 1,696,437; Dec. 25.
Radio reception and operation, Device for commercial. L. M. Bowman. 1,696,519; Dec. 25.
Radio telegraphic transmitter, Automatic. P. C. Andux y Perez. 1,696,779; Dec. 25.
Radiotransformer. F. D. Pearne. 1,696,860; Dec. 25.
Radio tube socket. F. S. Masley and A. P. Wasil. 1,696,406; Dec. 25.
Rail bond. C. G. McCaulley. 1,696,316; Dec. 25.
Rail clamp. E. Mullins. 1,696,724; Dec. 25.
Rail crossing. W. R. Hesskew and J. J. Nulty. 1,696,482; Dec. 25.
Railroad crosstie. H. A. Wills. 1,696,662; Dec. 25.
Railroad tie. J. W. McManama. 1,696,247; Dec. 25.
Railway brake. W. J. Smith. 1,696,869; Dec. 25.
Railway track. J. D. Hughes. 1,696,633; Dec. 25.
Range drive. J. W. Corey. 1,696,386; Dec. 25.
Razor blade. A. F. Ern. Des. 77,313; Dec. 25.
Reclining mat. B. F. B. Sewell, Chula, Va. 1,696,362; Dec. 25.
Recorder: *See*—
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Reel: *See*—
Film reel.
Reel. L. Hoock. 1,696,681; Dec. 25.
Refrigerating apparatus. O. M. Summers. 1,696,459; Dec. 25.
Refrigerating apparatus and method. T. B. Slate. 1,696,651; Dec. 25.
Refrigeration. C. C. Van Nuys. 1,696,558; Dec. 25.
Register. J. V. Petrelli. 1,696,252; Dec. 25.
Regulator: *See*—
Balance regulator. Voltage regulator.
Regulators, Manufacture of window. H. B. Haskins. 1,696,353; Dec. 25.
Removing sheets from a pile, Apparatus for. G. Spiess. 1,696,215; Dec. 25.
Repeater. B. W. Kendall. 1,696,241; Dec. 25.
Resinous material and making same. P. Knapp. 1,696,490; Dec. 25.
Resistance unit. C. Dantsizen. 1,696,596; Dec. 25.
Resistor and fuse, Combined. H. P. Hollnagel. 1,696,605; Dec. 25.
Resonator. E. P. Cole. 1,696,524; Dec. 25.
Rod-operating mechanism, Push-. W. A. Seaman. 1,696,866; Dec. 25.
Rolls, Making edible. F. E. Burdick. 1,696,343; Dec. 25.
Roof for cars. P. L. Rogers. 1,696,692; Dec. 25.
Rope, Attachment for wire. R. W. Scott. 1,696,889; Dec. 25.
Safety arrangement for railroad crossings. G. E. Jordan. 1,696,637; Dec. 25.
Safety device for gasoline filling stations. N. A. Carlson. 1,696,540; Dec. 25.
Safety device, Railroad-washout. W. R. Pool and E. W. Mealer. 1,696,209; Dec. 25.
Safety elevator. L. A. Tomlin. 1,696,557; Dec. 25.
Safety mechanism for elevator-shaft doors. A. J. Rosentreter. 1,696,328; Dec. 25.
Sanitary napkin. L. E. La Bombard and M. H. Sidebotham. 1,696,205; Dec. 25.
Saw attachment for tractors. O. M. Crumly. 1,696,527; Dec. 25.
Scraper. S. Alexander. 1,696,561; Dec. 25.
Screen. J. Bland. Re17,173; Dec. 25.
Screw press, Continuous. S. Hiller. 1,696,401; Dec. 25.
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Seashore outfit. N. Heller. 1,696,714; Dec. 25.
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Seeding implement. C. J. Allen. 1,696,562; Dec. 25.
Self-feeding lubricator. E. Martin. 1,696,774; Dec. 25.
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Settee frame or similar article. C. Bauer. Des. 77,282–6; Dec. 25.
Sewage treatment with the aid of a screen acting like a filter. K. Imhoff. 1,696,846; Dec. 25.
Sewing machine. J. Kiewicz. 1,696,438; Dec. 25.
Sewing machine, Buttonhole-. J. Kiewicz. 1,696,893; Dec. 25.
Shade or similar article, Light. N. Kopp. Des. 77,320; Dec. 25.
Shade or similar article, Lighting-fixture. N. Kopp. Des. 77,319; Dec. 25.
Shipping box. J. M. Blanchard. 1,696,341; Dec. 25.
Shirt and like article of wearing apparel. E. Higgins. 1,696,679; Dec. 25.
Shock absorber. J. E. Christen. 1,696,429; Dec. 25.
Shock-absorber. J. M. Hall. 1,696,478; Dec. 25.
Shock-absorbing mechanism, Friction. H. Fuchs. 1,696,350; Dec. 25.
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Shock arrester. E. Conti. 1,696,472; Dec. 25.
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Shoveling machine. B. C. Stanhope. 1,696,216; Dec. 25.
Sign and the like, Display. H. Kahn. 1,696,489; Dec. 25.
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Signaling system, High-frequency duplex. E. F. Carter. 1,696,566; Dec. 25.
Signaling system, High-frequency duplex. E. F. Carter. 1,696,595; Dec. 25.
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Sound signal. R. M. Critchfield. 1,696,625; Dec. 25.
Sounding-board actuator, Electromagnetic. M. R. Hutchison. 1,696,305; Dec. 25.
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Stabilizer for bedsprings. J. T. Atkinson. 1,696,291; Dec. 25.
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Static-discharge device for rotary stencil duplicating machines. E. J. Brasseur. 1,696,750; Dec. 25.
Steel end for railway cars, Corrugated. V. E. Sisson. 1,696,650; Dec. 25.
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Sulphur dioxide, Catalytic oxidation of. A. O. Jaeger and J. A. Bertsch. 1,696,546; Dec. 25.
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Supporting the side walls of excavations, Method of and apparatus for. S. H. Showell. 1,696,421; Dec. 25.
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Electric switch.
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Syringe and medicine dropper. W. F. Ware. 1,696,560; Dec. 25.
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Telephone-exchange system, Call-charging. A. E. Hague. 1,696,271; Dec. 25.
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Temperature control for water heaters. F. L. O. Wadsworth. 1,696,222; Dec. 25.
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Terminal, Battery. F. F. Fogel. 1,696,568; Dec. 25.
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Testing storage batteries. H. I. Shire. 1,696,334; Dec. 25.
Textile fabric. J. H. Bunting. Des. 77,290–1; Dec. 25.
Textile fabric. E. Coene. Des. 77,293; Dec. 25.
Textile fabric or the like, Printed. L. J. Siracusano. Des. 77,331; Dec. 25.
Thermometer tubes, Making. A. T. Hespe. 1,696,400; Dec. 25.
Thread-forming mechanism. H. L. Blood. 1,696,225; Dec. 25.
Ticket-issuing machine. J. S. Arcus and R. E. Beaubien. 1,696,180; Dec. 25.
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Time switch, Coin-controlled. L. D. Slusser. 1,696,364; Dec. 25.
Tire carrier and rim tool, Combination spare-. R. J. Dunham. 1,696,295; Dec. 25.
Tire, Vehicle. D. N. Booth. 1,696,707; Dec. 25.
Toaster. J. L. Shroyer. 1,696,613; Dec. 25.
Tobacco-ash receiver. W. Gordon. Des. 77,315; Dec. 25.
Tobacco pipe. S. E. Wright. 1,696,372; Dec. 25.
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Tool. J. W. Howell. 1,696,574; Dec. 25.
Tool, Fishing. G. H. Haifley. 1,696,200; Dec. 25.
Tool for applying patches to flexible hose. J. H. Foreman. 1,696,194; Dec. 25.
Tool for assembling chain links. L. W. Lippert. 1,696,578; Dec. 25.
Tool, Suction cleaner. E. A. Nisbet. 1,696,811; Dec. 25.
Topper, Beet. O. H. Hansen. 1,696,398; Dec. 25.
Toy. T. B. Enloe. 1,696,532; Dec. 25.
Toy animal figure. H. E. Schoenhut. Des. 77,329; Dec. 25.
Toy electric-railway control device. A. H. Gill. 1,696,534; Dec. 25.
Toy watchman's tower. J. E. Cuff. Des. 77,297; Dec. 25.
Track for coke ovens, Pusher. L. F. Schrader. 1,696,259; Dec. 25.
Track gauge. R. E. Keough. 1,696,885; Dec. 25.
Train-control apparatus. P. J. Clifford. 1,696,382; Dec. 25.
Train-control apparatus, System of eliminating automatic. P. J. Clifford. 1,696,383; Dec. 25.
Transformer and conduit-box cover, Combined. A. E. Rittenhouse. Re17,171; Dec. 25.
Translation system, Selective. J. P. Schafer. 1,696,212; Dec. 25.
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Traps, Striker attachment for animal. A. N. Armstrong. Re17,174; Dec. 25.
Tray or similar article. T. A. De Vilbiss. Des. 77,298–304; Dec. 25.
Treating artificial fuels. H. E. Wetherbee. 1,696,511; Dec. 25.
Treating filter liquor. H. Ahlqvist. 1,696,224; Dec. 25.
Treating fruit, Process of and apparatus for. O. H. Hansen. 1,696,399; Dec. 25.
Treating iron ores. T. P. Campbell. 1,696,188; Dec. 25.
Treating leather. M. Segoria. 1,696,867; Dec. 25.
Treating ores with chloride solutions. N. C. Christensen. 1,696,471; Dec. 25.
Treating rods, Device for. C. E. Lehr. 1,696,806; Dec. 25.
Treatment of materials, Apparatus for heat. T. S. Curtis. 1,696,794; Dec. 25.
Trouser-supporting device. J. W. Meiklejohn. 1,696,809; Dec. 25.
Truck, Railway. O. K. Kjolseth. 1,696,608; Dec. 25.
Truck, Railway-car. J. F. O'Connor. 1,696,322; Dec. 25.
Trunk, Folding. O. R. Ludwig. 1,696,853; Dec. 25.
Truss metal shape and producing same, Rolled. W. A. Bates. 1,696,833; Dec. 25.
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Turning machine, Automatic. D. Turcott. 1,696,425; Dec. 25.
Type-setting machines, Composing apparatus for. R. Barennes. 1,696,515; Dec. 25.
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Vacuum discharge devices by alternating current, Energizing. R. A. Heising. 1,696,233; Dec. 25.
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Valve. S. J. Nordstrom. 1,696,726; Dec. 25.
Valve. A. D. Skinner. 1,696,868; Dec. 25.
Valve Automatic vacuum-controlled. S. V. Smith. 1,696,366; Dec. 25.
Valve for cooling systems, Thermostat control. J. V. O. Palm. 1,696,410; Dec. 25.
Valve for percussive tools. G. Lee. 1,696,311; Dec. 25.
Valve, Lubricated. F. Milliken. 1,696,723; Dec. 25.
Valve-operating connections, Compensating means for. F. Reich. 1,696,361; Dec. 25.
Valve-operating mechanism and the like. J. C. Turvene. 1,696,370; Dec. 25.
Valve stem for inner tubes of pneumatic tires. A. B. Preisser. 1,696,211; Dec. 25.
Valves and like devices, Manufacturing of. L. Salves. 1,696,646; Dec. 25.
Vanity case. S. E. Guinn. Des. 77,316; Dec. 25.
Vapor burner. C. E. Debaecker. 1,696,389; Dec. 25.
Vaporizer for liquid fuel. E. R. Godward. 1,696,881; Dec. 25.





Vaporizer for liquid fuels. E. R. Godward. 1,696,761; Dec. 25.
Vehicle brake. H. C. Chase. 1,696,879; Dec. 25.
Vehicle brake. G. J. Rackham. 1,696,729; Dec. 25.
Vending machine. H. L. Lowry. 1,696,494; Dec. 25.
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Vending machine, Manually-selective. W. C. Cutler. 1,696,795; Dec. 25.
Ventilating means for boots and shoes. M. A. Shanhan. 1,696,457; Dec. 25.
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Viscosimeter, Direct-reading. F. E. Fitch and N. W. Torbet. 1,696,630; Dec. 25.
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Vulcanizing rubber and products obtained thereby. I. Ostromislensky. 1,696,409; Dec. 25.
Wall construction for bathrooms. F. H. Michaelis. 1,696,443; Dec. 25.
Washing coal, ores, and other similar materials, and automatic water-current separator for carrying the method into practice, Method of. L. Hoyois. 1,696,767; Dec. 25.
Washing machine. H. F. and E. Kuhlmann. 1,696,718; Dec. 25.
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Watchcase. A. G. Bernheimer. Des. 77,287; Dec. 25.
Watchcase. A. P. Conant. Des. 77,294–6; Dec. 25.
Water-closet. E. K. H. Lundberg. 1,696,855; Dec. 25.
Water heater. A. Galdi and E. S. Peterson. 1,696,758; Dec. 25.
Water heater. H. J. Lange. 1,696,206; Dec. 25.
Water heater. V. P. Williams. 1,696,828; Dec. 25.
Water-softening apparatus. J. E. Trewhitt and P. E. Hillery. 1,696,369; Dec. 25.
Wave transmission system. R. C. Mathes. 1,696,315; Dec. 25.
Waxing blanks, Method of and machine for. H. S. Labombarde. 1,696,894; Dec. 25.
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Wheel-aligning gauge. C. H. Archer. 1,696,290; Dec. 25.
Wheel construction. W. C. Martin. 1,696,405; Dec. 25.
Wheel structure, Bull-. R. R. Bloss. 1,696,664; Dec. 25.
Window. J. F. Massey. 1,696,498; Dec. 25.
Window-glass channel. E. W. M. Bailey. 1,696,589; Dec. 25.
Window, Reversible, R. E. Hysert. 1,696,067; Dec. 25.
Wrapper. H. G. Norwood. 1,696,445; Dec. 25.
Wreath form. E. D. Tubbs. 1,696,221; Dec. 25.
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Writing apparatus, Electrically-displayed. C. Lauria. 1,696,548; Dec. 25.

# CLASSIFICATION OF PATENTS

## ISSUED DECEMBER 25, 1928.

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# OFFICIAL GAZETTE

# UNITED STATES PATENT OFFICE

## NOV. THRU DEC.

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